

$\theta \leq 180^\circ$	$0^\circ$	$1^\circ$	$2^\circ$	$3^\circ$	$4^\circ$	$5^\circ$	$6^\circ$	$7^\circ$	$8^\circ$	$9^\circ$	
$0'$	0,00	<u>4,7615</u>	<u>3,3046</u>	<u>3,6852</u>	<u>2,1218</u>	<u>2,1903</u>	<u>2,2739</u>	<u>2,3727</u>	<u>2,4866</u>	<u>2,6156</u>	$60'$
$2'$	<u>5,0085</u>	<u>4,8131</u>	<u>3,3148</u>	<u>3,7005</u>	<u>2,1238</u>	<u>2,1928</u>	<u>2,2770</u>	<u>2,3762</u>	<u>2,4907</u>	<u>2,6201</u>	$58'$
$4'$	<u>5,0338</u>	<u>4,8664</u>	<u>3,3252</u>	<u>3,7160</u>	<u>2,1259</u>	<u>2,1954</u>	<u>2,2800</u>	<u>2,3798</u>	<u>2,4947</u>	<u>2,6247</u>	$56'$
$6'$	<u>5,0762</u>	<u>4,9214</u>	<u>3,3358</u>	<u>3,7317</u>	<u>2,1280</u>	<u>2,1979</u>	<u>2,2831</u>	<u>2,3834</u>	<u>2,4988</u>	<u>2,6293</u>	$54'$
$8'$	<u>5,1354</u>	<u>4,9781</u>	<u>3,3465</u>	<u>3,7475</u>	<u>2,1300</u>	<u>2,2005</u>	<u>2,2862</u>	<u>2,3870</u>	<u>2,5029</u>	<u>2,6339</u>	$52'$
$10'$	<b><u>5,2115</u></b>	<b><u>3,1037</u></b>	<b><u>3,3575</u></b>	<b><u>3,7635</u></b>	<b><u>2,1322</u></b>	<b><u>2,2032</u></b>	<b><u>2,2893</u></b>	<b><u>2,3906</u></b>	<b><u>2,5070</u></b>	<b><u>2,6385</u></b>	$50'$
$12'$	<u>5,3046</u>	<u>3,1097</u>	<u>3,3685</u>	<u>3,7796</u>	<u>2,1343</u>	<u>2,2058</u>	<u>2,2925</u>	<u>2,3943</u>	<u>2,5112</u>	<u>2,6432</u>	$48'$
$14'$	<u>5,4146</u>	<u>3,1158</u>	<u>3,3798</u>	<u>3,7959</u>	<u>2,1364</u>	<u>2,2084</u>	<u>2,2956</u>	<u>2,3979</u>	<u>2,5153</u>	<u>2,6478</u>	$46'$
$16'$	<u>5,5415</u>	<u>3,1222</u>	<u>3,3912</u>	<u>3,8124</u>	<u>2,1386</u>	<u>2,2111</u>	<u>2,2988</u>	<u>2,4016</u>	<u>2,5195</u>	<u>2,6525</u>	$44'$
$18'$	<u>5,6854</u>	<u>3,1287</u>	<u>3,4028</u>	<u>3,8291</u>	<u>2,1407</u>	<u>2,2138</u>	<u>2,3020</u>	<u>2,4053</u>	<u>2,5237</u>	<u>2,6572</u>	$42'$
$20'$	<b><u>5,8462</u></b>	<b><u>3,1354</u></b>	<b><u>3,4146</u></b>	<b><u>3,8459</u></b>	<b><u>2,1429</u></b>	<b><u>2,2165</u></b>	<b><u>2,3052</u></b>	<b><u>2,4090</u></b>	<b><u>2,5279</u></b>	<b><u>2,6619</u></b>	$40'$
$22'$	<u>4,1024</u>	<u>3,1422</u>	<u>3,4265</u>	<u>3,8629</u>	<u>2,1451</u>	<u>2,2192</u>	<u>2,3084</u>	<u>2,4127</u>	<u>2,5321</u>	<u>2,6666</u>	$38'$
$24'$	<u>4,1218</u>	<u>3,1493</u>	<u>3,4386</u>	<u>3,8801</u>	<u>2,1474</u>	<u>2,2219</u>	<u>2,3116</u>	<u>2,4164</u>	<u>2,5364</u>	<u>2,6714</u>	$36'$
$26'$	<u>4,1430</u>	<u>3,1564</u>	<u>3,4509</u>	<u>3,8974</u>	<u>2,1496</u>	<u>2,2246</u>	<u>2,3149</u>	<u>2,4202</u>	<u>2,5406</u>	<u>2,6762</u>	$34'$
$28'$	<u>4,1658</u>	<u>3,1638</u>	<u>3,4633</u>	<u>3,9149</u>	<u>2,1519</u>	<u>2,2274</u>	<u>2,3181</u>	<u>2,4240</u>	<u>2,5449</u>	<u>2,6809</u>	$32'$
$30'$	<b><u>4,1904</u></b>	<b><u>3,1713</u></b>	<b><u>3,4759</u></b>	<b><u>3,9326</u></b>	<b><u>2,1541</u></b>	<b><u>2,2302</u></b>	<b><u>2,3214</u></b>	<b><u>2,4278</u></b>	<b><u>2,5492</u></b>	<b><u>2,6857</u></b>	$30'$
$32'$	<u>4,2166</u>	<u>3,1790</u>	<u>3,4887</u>	<u>3,9504</u>	<u>2,1564</u>	<u>2,2330</u>	<u>2,3247</u>	<u>2,4316</u>	<u>2,5535</u>	<u>2,6905</u>	$28'$
$34'$	<u>4,2445</u>	<u>3,1869</u>	<u>3,5016</u>	<u>3,9685</u>	<u>2,1587</u>	<u>2,2358</u>	<u>2,3280</u>	<u>2,4354</u>	<u>2,5578</u>	<u>2,6954</u>	$26'$
$36'$	<u>4,2742</u>	<u>3,1949</u>	<u>3,5147</u>	<u>3,9866</u>	<u>2,1611</u>	<u>2,2386</u>	<u>2,3314</u>	<u>2,4392</u>	<u>2,5622</u>	<u>2,7002</u>	$24'$
$38'$	<u>4,3055</u>	<u>3,2031</u>	<u>3,5280</u>	<u>2,1005</u>	<u>2,1634</u>	<u>2,2415</u>	<u>2,3347</u>	<u>2,4431</u>	<u>2,5665</u>	<u>2,7051</u>	$22'$
$40'$	<b><u>4,3385</u></b>	<b><u>3,2115</u></b>	<b><u>3,5414</u></b>	<b><u>2,1024</u></b>	<b><u>2,1658</u></b>	<b><u>2,2443</u></b>	<b><u>2,3381</u></b>	<b><u>2,4470</u></b>	<b><u>2,5709</u></b>	<b><u>2,7099</u></b>	$20'$
$42'$	<u>4,3732</u>	<u>3,2201</u>	<u>3,5551</u>	<u>2,1042</u>	<u>2,1681</u>	<u>2,2472</u>	<u>2,3415</u>	<u>2,4508</u>	<u>2,5753</u>	<u>2,7148</u>	$18'$
$44'$	<u>4,4095</u>	<u>3,2288</u>	<u>3,5688</u>	<u>2,1061</u>	<u>2,1705</u>	<u>2,2501</u>	<u>2,3449</u>	<u>2,4547</u>	<u>2,5797</u>	<u>2,7197</u>	$16'$
$46'$	<u>4,4476</u>	<u>3,2377</u>	<u>3,5828</u>	<u>2,1080</u>	<u>2,1729</u>	<u>2,2530</u>	<u>2,3483</u>	<u>2,4587</u>	<u>2,5841</u>	<u>2,7247</u>	$14'$
$48'$	<u>4,4874</u>	<u>3,2467</u>	<u>3,5969</u>	<u>2,1099</u>	<u>2,1754</u>	<u>2,2560</u>	<u>2,3517</u>	<u>2,4626</u>	<u>2,5886</u>	<u>2,7296</u>	$12'$
$50'$	<b><u>4,5288</u></b>	<b><u>3,2559</u></b>	<b><u>3,6112</u></b>	<b><u>2,1119</u></b>	<b><u>2,1778</u></b>	<b><u>2,2589</u></b>	<b><u>2,3552</u></b>	<b><u>2,4666</u></b>	<b><u>2,5930</u></b>	<b><u>2,7346</u></b>	$10'$
$52'$	<u>4,5720</u>	<u>3,2653</u>	<u>3,6257</u>	<u>2,1138</u>	<u>2,1803</u>	<u>2,2619</u>	<u>2,3586</u>	<u>2,4705</u>	<u>2,5975</u>	<u>2,7395</u>	$8'$
$54'$	<u>4,6168</u>	<u>3,2749</u>	<u>3,6403</u>	<u>2,1158</u>	<u>2,1827</u>	<u>2,2649</u>	<u>2,3621</u>	<u>2,4745</u>	<u>2,6020</u>	<u>2,7445</u>	$6'$
$56'$	<u>4,6634</u>	<u>3,2846</u>	<u>3,6551</u>	<u>2,1178</u>	<u>2,1852</u>	<u>2,2679</u>	<u>2,3656</u>	<u>2,4785</u>	<u>2,6065</u>	<u>2,7495</u>	$4'$
$58'$	<u>4,7116</u>	<u>3,2945</u>	<u>3,6701</u>	<u>2,1198</u>	<u>2,1877</u>	<u>2,2709</u>	<u>2,3692</u>	<u>2,4826</u>	<u>2,6110</u>	<u>2,7546</u>	$2'$
$60'$	<u>4,7615</u>	<u>3,3046</u>	<u>3,6852</u>	<u>2,1218</u>	<u>2,1903</u>	<u>2,2739</u>	<u>2,3727</u>	<u>2,4866</u>	<u>2,6156</u>	<u>2,7596</u>	$0'$
	<b><math>359^\circ</math></b>	<b><math>358^\circ</math></b>	<b><math>357^\circ</math></b>	<b><math>356^\circ</math></b>	<b><math>355^\circ</math></b>	<b><math>354^\circ</math></b>	<b><math>353^\circ</math></b>	<b><math>352^\circ</math></b>	<b><math>351^\circ</math></b>	<b><math>350^\circ</math></b>	$180^\circ \leq \theta$

Usage:  $hv(358^\circ 42') = hv(1^\circ 18') = 0.0001287$  denoted as 3,1287

$\theta \leq 180^\circ$	$10^\circ$	$11^\circ$	$12^\circ$	$13^\circ$	$14^\circ$	$15^\circ$	$16^\circ$	$17^\circ$	$18^\circ$	$19^\circ$	
$0'$	<u>2,7596</u>	<u>2,9186</u>	<u>1,1093</u>	<u>1,1281</u>	<u>1,1485</u>	<u>1,1704</u>	<u>1,1937</u>	<u>1,2185</u>	<u>1,2447</u>	<u>1,2724</u>	$60'$
$2'$	<u>2,7647</u>	<u>2,9242</u>	<u>1,1099</u>	<u>1,1288</u>	<u>1,1492</u>	<u>1,1711</u>	<u>1,1945</u>	<u>1,2193</u>	<u>1,2456</u>	<u>1,2734</u>	$58'$
$4'$	<u>2,7697</u>	<u>2,9298</u>	<u>1,1105</u>	<u>1,1295</u>	<u>1,1499</u>	<u>1,1719</u>	<u>1,1953</u>	<u>1,2202</u>	<u>1,2465</u>	<u>1,2743</u>	$56'$
$6'$	<u>2,7748</u>	<u>2,9354</u>	<u>1,1111</u>	<u>1,1301</u>	<u>1,1506</u>	<u>1,1726</u>	<u>1,1961</u>	<u>1,2210</u>	<u>1,2474</u>	<u>1,2753</u>	$54'$
$8'$	<u>2,7800</u>	<u>2,9410</u>	<u>1,1117</u>	<u>1,1308</u>	<u>1,1513</u>	<u>1,1734</u>	<u>1,1969</u>	<u>1,2219</u>	<u>1,2483</u>	<u>1,2762</u>	$52'$
$10'$	<b><u>2,7851</u></b>	<b><u>2,9466</u></b>	<b><u>1,1123</u></b>	<b><u>1,1314</u></b>	<b><u>1,1521</u></b>	<b><u>1,1742</u></b>	<b><u>1,1977</u></b>	<b><u>1,2227</u></b>	<b><u>1,2492</u></b>	<b><u>1,2772</u></b>	$50'$
$12'$	<u>2,7902</u>	<u>2,9522</u>	<u>1,1129</u>	<u>1,1321</u>	<u>1,1528</u>	<u>1,1749</u>	<u>1,1985</u>	<u>1,2236</u>	<u>1,2501</u>	<u>1,2781</u>	$48'$
$14'$	<u>2,7954</u>	<u>2,9579</u>	<u>1,1135</u>	<u>1,1328</u>	<u>1,1535</u>	<u>1,1757</u>	<u>1,1993</u>	<u>1,2245</u>	<u>1,2510</u>	<u>1,2791</u>	$46'$
$16'$	<u>2,8006</u>	<u>2,9636</u>	<u>1,1142</u>	<u>1,1334</u>	<u>1,1542</u>	<u>1,1764</u>	<u>1,2002</u>	<u>1,2253</u>	<u>1,2520</u>	<u>1,2800</u>	$44'$
$18'$	<u>2,8057</u>	<u>2,9693</u>	<u>1,1148</u>	<u>1,1341</u>	<u>1,1549</u>	<u>1,1772</u>	<u>1,2010</u>	<u>1,2262</u>	<u>1,2529</u>	<u>1,2810</u>	$42'$
$20'$	<b><u>2,8110</u></b>	<b><u>2,9750</u></b>	<b><u>1,1154</u></b>	<b><u>1,1348</u></b>	<b><u>1,1556</u></b>	<b><u>1,1780</u></b>	<b><u>1,2018</u></b>	<b><u>1,2271</u></b>	<b><u>1,2538</u></b>	<b><u>1,2820</u></b>	$40'$
$22'$	<u>2,8162</u>	<u>2,9807</u>	<u>1,1160</u>	<u>1,1354</u>	<u>1,1564</u>	<u>1,1788</u>	<u>1,2026</u>	<u>1,2279</u>	<u>1,2547</u>	<u>1,2829</u>	$38'$
$24'$	<u>2,8214</u>	<u>2,9864</u>	<u>1,1166</u>	<u>1,1361</u>	<u>1,1571</u>	<u>1,1795</u>	<u>1,2034</u>	<u>1,2288</u>	<u>1,2556</u>	<u>1,2839</u>	$36'$
$26'$	<u>2,8267</u>	<u>2,9922</u>	<u>1,1173</u>	<u>1,1368</u>	<u>1,1578</u>	<u>1,1803</u>	<u>1,2043</u>	<u>1,2297</u>	<u>1,2565</u>	<u>1,2849</u>	$34'$
$28'$	<u>2,8320</u>	<u>2,9980</u>	<u>1,1179</u>	<u>1,1375</u>	<u>1,1585</u>	<u>1,1811</u>	<u>1,2051</u>	<u>1,2305</u>	<u>1,2575</u>	<u>1,2858</u>	$32'$
$30'$	<b><u>2,8373</u></b>	<b><u>1,1004</u></b>	<b><u>1,1185</u></b>	<b><u>1,1382</u></b>	<b><u>1,1593</u></b>	<b><u>1,1818</u></b>	<b><u>1,2059</u></b>	<b><u>1,2314</u></b>	<b><u>1,2584</u></b>	<b><u>1,2868</u></b>	$30'$
$32'$	<u>2,8426</u>	<u>1,1010</u>	<u>1,1192</u>	<u>1,1388</u>	<u>1,1600</u>	<u>1,1826</u>	<u>1,2067</u>	<u>1,2323</u>	<u>1,2593</u>	<u>1,2878</u>	$28'$
$34'$	<u>2,8479</u>	<u>1,1015</u>	<u>1,1198</u>	<u>1,1395</u>	<u>1,1607</u>	<u>1,1834</u>	<u>1,2076</u>	<u>1,2332</u>	<u>1,2602</u>	<u>1,2887</u>	$26'$
$36'$	<u>2,8532</u>	<u>1,1021</u>	<u>1,1204</u>	<u>1,1402</u>	<u>1,1615</u>	<u>1,1842</u>	<u>1,2084</u>	<u>1,2340</u>	<u>1,2612</u>	<u>1,2897</u>	$24'$
$38'$	<u>2,8586</u>	<u>1,1027</u>	<u>1,1211</u>	<u>1,1409</u>	<u>1,1622</u>	<u>1,1850</u>	<u>1,2092</u>	<u>1,2349</u>	<u>1,2621</u>	<u>1,2907</u>	$22'$
$40'$	<b><u>2,8640</u></b>	<b><u>1,1033</u></b>	<b><u>1,1217</u></b>	<b><u>1,1416</u></b>	<b><u>1,1629</u></b>	<b><u>1,1858</u></b>	<b><u>1,2101</u></b>	<b><u>1,2358</u></b>	<b><u>1,2630</u></b>	<b><u>1,2917</u></b>	$20'$
$42'$	<u>2,8694</u>	<u>1,1039</u>	<u>1,1223</u>	<u>1,1423</u>	<u>1,1637</u>	<u>1,1865</u>	<u>1,2109</u>	<u>1,2367</u>	<u>1,2639</u>	<u>1,2926</u>	$18'$
$44'$	<u>2,8748</u>	<u>1,1045</u>	<u>1,1230</u>	<u>1,1429</u>	<u>1,1644</u>	<u>1,1873</u>	<u>1,2117</u>	<u>1,2376</u>	<u>1,2649</u>	<u>1,2936</u>	$16'$
$46'$	<u>2,8802</u>	<u>1,1051</u>	<u>1,1236</u>	<u>1,1436</u>	<u>1,1651</u>	<u>1,1881</u>	<u>1,2126</u>	<u>1,2385</u>	<u>1,2658</u>	<u>1,2946</u>	$14'$
$48'$	<u>2,8856</u>	<u>1,1057</u>	<u>1,1243</u>	<u>1,1443</u>	<u>1,1659</u>	<u>1,1889</u>	<u>1,2134</u>	<u>1,2394</u>	<u>1,2668</u>	<u>1,2956</u>	$12'$
$50'$	<b><u>2,8911</u></b>	<b><u>1,1063</u></b>	<b><u>1,1249</u></b>	<b><u>1,1450</u></b>	<b><u>1,1666</u></b>	<b><u>1,1897</u></b>	<b><u>1,2142</u></b>	<b><u>1,2402</u></b>	<b><u>1,2677</u></b>	<b><u>1,2966</u></b>	$10'$
$52'$	<u>2,8966</u>	<u>1,1069</u>	<u>1,1255</u>	<u>1,1457</u>	<u>1,1674</u>	<u>1,1905</u>	<u>1,2151</u>	<u>1,2411</u>	<u>1,2686</u>	<u>1,2976</u>	$8'$
$54'$	<u>2,9021</u>	<u>1,1075</u>	<u>1,1262</u>	<u>1,1464</u>	<u>1,1681</u>	<u>1,1913</u>	<u>1,2159</u>	<u>1,2420</u>	<u>1,2696</u>	<u>1,2986</u>	$6'$
$56'$	<u>2,9076</u>	<u>1,1081</u>	<u>1,1268</u>	<u>1,1471</u>	<u>1,1689</u>	<u>1,1921</u>	<u>1,2168</u>	<u>1,2429</u>	<u>1,2705</u>	<u>1,2996</u>	$4'$
$58'$	<u>2,9131</u>	<u>1,1087</u>	<u>1,1275</u>	<u>1,1478</u>	<u>1,1696</u>	<u>1,1929</u>	<u>1,2176</u>	<u>1,2438</u>	<u>1,2715</u>	<u>1,3005</u>	$2'$
$60'$	<u>2,9186</u>	<u>1,1093</u>	<u>1,1281</u>	<u>1,1485</u>	<u>1,1704</u>	<u>1,1937</u>	<u>1,2185</u>	<u>1,2447</u>	<u>1,2724</u>	<u>1,3015</u>	$0'$
	$349^\circ$	$348^\circ$	$347^\circ$	$346^\circ$	$345^\circ$	$344^\circ$	$343^\circ$	$342^\circ$	$341^\circ$	$340^\circ$	$180^\circ \leq \theta$

Usage:  $hv(343^\circ 12') = hv(16^\circ 48') = 0.02134$  denoted as 1,2134

$\theta \leq 180^\circ$	<b>20°</b>	<b>21°</b>	<b>22°</b>	<b>23°</b>	<b>24°</b>	<b>25°</b>	<b>26°</b>	<b>27°</b>	<b>28°</b>	<b>29°</b>	
<b>0'</b>	<u>1,3015</u>	<u>1,3321</u>	<u>1,3641</u>	<u>1,3975</u>	<u>1,4323</u>	<u>1,4685</u>	<u>1,5060</u>	<u>1,5450</u>	<u>1,5853</u>	<u>1,6269</u>	<b>60'</b>
<b>2'</b>	<u>1,3025</u>	<u>1,3331</u>	<u>1,3652</u>	<u>1,3986</u>	<u>1,4335</u>	<u>1,4697</u>	<u>1,5073</u>	<u>1,5463</u>	<u>1,5866</u>	<u>1,6283</u>	<b>58'</b>
<b>4'</b>	<u>1,3035</u>	<u>1,3342</u>	<u>1,3663</u>	<u>1,3998</u>	<u>1,4346</u>	<u>1,4709</u>	<u>1,5086</u>	<u>1,5476</u>	<u>1,5880</u>	<u>1,6297</u>	<b>56'</b>
<b>6'</b>	<u>1,3045</u>	<u>1,3352</u>	<u>1,3674</u>	<u>1,4009</u>	<u>1,4358</u>	<u>1,4722</u>	<u>1,5099</u>	<u>1,5489</u>	<u>1,5894</u>	<u>1,6311</u>	<b>54'</b>
<b>8'</b>	<u>1,3055</u>	<u>1,3363</u>	<u>1,3685</u>	<u>1,4020</u>	<u>1,4370</u>	<u>1,4734</u>	<u>1,5111</u>	<u>1,5503</u>	<u>1,5907</u>	<u>1,6326</u>	<b>52'</b>
<b>10'</b>	<b><u>1,3065</u></b>	<b><u>1,3373</u></b>	<b><u>1,3695</u></b>	<b><u>1,4032</u></b>	<b><u>1,4382</u></b>	<b><u>1,4746</u></b>	<b><u>1,5124</u></b>	<b><u>1,5516</u></b>	<b><u>1,5921</u></b>	<b><u>1,6340</u></b>	<b>50'</b>
<b>12'</b>	<u>1,3075</u>	<u>1,3384</u>	<u>1,3706</u>	<u>1,4043</u>	<u>1,4394</u>	<u>1,4759</u>	<u>1,5137</u>	<u>1,5529</u>	<u>1,5935</u>	<u>1,6354</u>	<b>48'</b>
<b>14'</b>	<u>1,3085</u>	<u>1,3394</u>	<u>1,3717</u>	<u>1,4055</u>	<u>1,4406</u>	<u>1,4771</u>	<u>1,5150</u>	<u>1,5542</u>	<u>1,5949</u>	<u>1,6368</u>	<b>46'</b>
<b>16'</b>	<u>1,3095</u>	<u>1,3405</u>	<u>1,3728</u>	<u>1,4066</u>	<u>1,4418</u>	<u>1,4783</u>	<u>1,5163</u>	<u>1,5556</u>	<u>1,5962</u>	<u>1,6382</u>	<b>44'</b>
<b>18'</b>	<u>1,3106</u>	<u>1,3415</u>	<u>1,3740</u>	<u>1,4078</u>	<u>1,4430</u>	<u>1,4796</u>	<u>1,5176</u>	<u>1,5569</u>	<u>1,5976</u>	<u>1,6397</u>	<b>42'</b>
<b>20'</b>	<b><u>1,3116</u></b>	<b><u>1,3426</u></b>	<b><u>1,3751</u></b>	<b><u>1,4089</u></b>	<b><u>1,4442</u></b>	<b><u>1,4808</u></b>	<b><u>1,5189</u></b>	<b><u>1,5582</u></b>	<b><u>1,5990</u></b>	<b><u>1,6411</u></b>	<b>40'</b>
<b>22'</b>	<u>1,3126</u>	<u>1,3437</u>	<u>1,3762</u>	<u>1,4101</u>	<u>1,4454</u>	<u>1,4821</u>	<u>1,5201</u>	<u>1,5596</u>	<u>1,6004</u>	<u>1,6425</u>	<b>38'</b>
<b>24'</b>	<u>1,3136</u>	<u>1,3447</u>	<u>1,3773</u>	<u>1,4112</u>	<u>1,4466</u>	<u>1,4833</u>	<u>1,5214</u>	<u>1,5609</u>	<u>1,6018</u>	<u>1,6439</u>	<b>36'</b>
<b>26'</b>	<u>1,3146</u>	<u>1,3458</u>	<u>1,3784</u>	<u>1,4124</u>	<u>1,4478</u>	<u>1,4846</u>	<u>1,5227</u>	<u>1,5623</u>	<u>1,6031</u>	<u>1,6454</u>	<b>34'</b>
<b>28'</b>	<u>1,3156</u>	<u>1,3468</u>	<u>1,3795</u>	<u>1,4135</u>	<u>1,4490</u>	<u>1,4858</u>	<u>1,5240</u>	<u>1,5636</u>	<u>1,6045</u>	<u>1,6468</u>	<b>32'</b>
<b>30'</b>	<b><u>1,3166</u></b>	<b><u>1,3479</u></b>	<b><u>1,3806</u></b>	<b><u>1,4147</u></b>	<b><u>1,4502</u></b>	<b><u>1,4871</u></b>	<b><u>1,5253</u></b>	<b><u>1,5649</u></b>	<b><u>1,6059</u></b>	<b><u>1,6482</u></b>	<b>30'</b>
<b>32'</b>	<u>1,3177</u>	<u>1,3490</u>	<u>1,3817</u>	<u>1,4159</u>	<u>1,4514</u>	<u>1,4883</u>	<u>1,5266</u>	<u>1,5663</u>	<u>1,6073</u>	<u>1,6497</u>	<b>28'</b>
<b>34'</b>	<u>1,3187</u>	<u>1,3500</u>	<u>1,3828</u>	<u>1,4170</u>	<u>1,4526</u>	<u>1,4896</u>	<u>1,5279</u>	<u>1,5676</u>	<u>1,6087</u>	<u>1,6511</u>	<b>26'</b>
<b>36'</b>	<u>1,3197</u>	<u>1,3511</u>	<u>1,3839</u>	<u>1,4182</u>	<u>1,4538</u>	<u>1,4908</u>	<u>1,5292</u>	<u>1,5690</u>	<u>1,6101</u>	<u>1,6525</u>	<b>24'</b>
<b>38'</b>	<u>1,3207</u>	<u>1,3522</u>	<u>1,3851</u>	<u>1,4194</u>	<u>1,4550</u>	<u>1,4921</u>	<u>1,5305</u>	<u>1,5703</u>	<u>1,6115</u>	<u>1,6540</u>	<b>22'</b>
<b>40'</b>	<b><u>1,3218</u></b>	<b><u>1,3533</u></b>	<b><u>1,3862</u></b>	<b><u>1,4205</u></b>	<b><u>1,4562</u></b>	<b><u>1,4934</u></b>	<b><u>1,5318</u></b>	<b><u>1,5717</u></b>	<b><u>1,6129</u></b>	<b><u>1,6554</u></b>	<b>20'</b>
<b>42'</b>	<u>1,3228</u>	<u>1,3543</u>	<u>1,3873</u>	<u>1,4217</u>	<u>1,4575</u>	<u>1,4946</u>	<u>1,5331</u>	<u>1,5730</u>	<u>1,6143</u>	<u>1,6568</u>	<b>18'</b>
<b>44'</b>	<u>1,3238</u>	<u>1,3554</u>	<u>1,3884</u>	<u>1,4229</u>	<u>1,4587</u>	<u>1,4959</u>	<u>1,5345</u>	<u>1,5744</u>	<u>1,6157</u>	<u>1,6583</u>	<b>16'</b>
<b>46'</b>	<u>1,3248</u>	<u>1,3565</u>	<u>1,3896</u>	<u>1,4240</u>	<u>1,4599</u>	<u>1,4971</u>	<u>1,5358</u>	<u>1,5757</u>	<u>1,6171</u>	<u>1,6597</u>	<b>14'</b>
<b>48'</b>	<u>1,3259</u>	<u>1,3576</u>	<u>1,3907</u>	<u>1,4252</u>	<u>1,4611</u>	<u>1,4984</u>	<u>1,5371</u>	<u>1,5771</u>	<u>1,6185</u>	<u>1,6612</u>	<b>12'</b>
<b>50'</b>	<b><u>1,3269</u></b>	<b><u>1,3587</u></b>	<b><u>1,3918</u></b>	<b><u>1,4264</u></b>	<b><u>1,4623</u></b>	<b><u>1,4997</u></b>	<b><u>1,5384</u></b>	<b><u>1,5785</u></b>	<b><u>1,6199</u></b>	<b><u>1,6626</u></b>	<b>10'</b>
<b>52'</b>	<u>1,3279</u>	<u>1,3597</u>	<u>1,3929</u>	<u>1,4276</u>	<u>1,4636</u>	<u>1,5009</u>	<u>1,5397</u>	<u>1,5798</u>	<u>1,6213</u>	<u>1,6641</u>	<b>8'</b>
<b>54'</b>	<u>1,3290</u>	<u>1,3608</u>	<u>1,3941</u>	<u>1,4287</u>	<u>1,4648</u>	<u>1,5022</u>	<u>1,5410</u>	<u>1,5812</u>	<u>1,6227</u>	<u>1,6655</u>	<b>6'</b>
<b>56'</b>	<u>1,3300</u>	<u>1,3619</u>	<u>1,3952</u>	<u>1,4299</u>	<u>1,4660</u>	<u>1,5035</u>	<u>1,5423</u>	<u>1,5825</u>	<u>1,6241</u>	<u>1,6670</u>	<b>4'</b>
<b>58'</b>	<u>1,3311</u>	<u>1,3630</u>	<u>1,3963</u>	<u>1,4311</u>	<u>1,4672</u>	<u>1,5048</u>	<u>1,5436</u>	<u>1,5839</u>	<u>1,6255</u>	<u>1,6684</u>	<b>2'</b>
<b>60'</b>	<u>1,3321</u>	<u>1,3641</u>	<u>1,3975</u>	<u>1,4323</u>	<u>1,4685</u>	<u>1,5060</u>	<u>1,5450</u>	<u>1,5853</u>	<u>1,6269</u>	<u>1,6699</u>	<b>0'</b>
	<b>339°</b>	<b>338°</b>	<b>337°</b>	<b>336°</b>	<b>335°</b>	<b>334°</b>	<b>333°</b>	<b>332°</b>	<b>331°</b>	<b>330°</b>	$180^\circ \leq \theta$

Usage:  $hv(330^\circ 56') = hv(29^\circ 04') = 0.06283$  denoted as 1,6283

$\theta \leq 180^\circ$	<b>30°</b>	<b>31°</b>	<b>32°</b>	<b>33°</b>	<b>34°</b>	<b>35°</b>	<b>36°</b>	<b>37°</b>	<b>38°</b>	<b>39°</b>	
<b>0'</b>	<u>1,6699</u>	<u>1,7142</u>	<u>1,7598</u>	<u>1,8066</u>	<u>1,8548</u>	<u>1,9042</u>	<u>1,9549</u>	0,1007	0,1060	0,1114	<b>60'</b>
<b>2'</b>	<u>1,6713</u>	<u>1,7157</u>	<u>1,7613</u>	<u>1,8082</u>	<u>1,8564</u>	<u>1,9059</u>	<u>1,9566</u>	0,1009	0,1062	0,1116	<b>58'</b>
<b>4'</b>	<u>1,6728</u>	<u>1,7172</u>	<u>1,7628</u>	<u>1,8098</u>	<u>1,8581</u>	<u>1,9076</u>	<u>1,9583</u>	0,1010	0,1064	0,1118	<b>56'</b>
<b>6'</b>	<u>1,6742</u>	<u>1,7187</u>	<u>1,7644</u>	<u>1,8114</u>	<u>1,8597</u>	<u>1,9093</u>	<u>1,9601</u>	0,1012	0,1065	0,1120	<b>54'</b>
<b>8'</b>	<u>1,6757</u>	<u>1,7202</u>	<u>1,7659</u>	<u>1,8130</u>	<u>1,8613</u>	<u>1,9109</u>	<u>1,9618</u>	0,1014	0,1067	0,1122	<b>52'</b>
<b>10'</b>	<b><u>1,6772</u></b>	<b><u>1,7217</u></b>	<b><u>1,7675</u></b>	<b><u>1,8146</u></b>	<b><u>1,8630</u></b>	<b><u>1,9126</u></b>	<b><u>1,9635</u></b>	<b>0,1016</b>	<b>0,1069</b>	<b>0,1123</b>	<b>50'</b>
<b>12'</b>	<u>1,6786</u>	<u>1,7232</u>	<u>1,7690</u>	<u>1,8162</u>	<u>1,8646</u>	<u>1,9143</u>	<u>1,9652</u>	0,1017	0,1071	0,1125	<b>48'</b>
<b>14'</b>	<u>1,6801</u>	<u>1,7247</u>	<u>1,7706</u>	<u>1,8178</u>	<u>1,8662</u>	<u>1,9160</u>	<u>1,9669</u>	0,1019	0,1073	0,1127	<b>46'</b>
<b>16'</b>	<u>1,6816</u>	<u>1,7262</u>	<u>1,7721</u>	<u>1,8194</u>	<u>1,8679</u>	<u>1,9176</u>	<u>1,9686</u>	0,1021	0,1074	0,1129	<b>44'</b>
<b>18'</b>	<u>1,6830</u>	<u>1,7277</u>	<u>1,7737</u>	<u>1,8210</u>	<u>1,8695</u>	<u>1,9193</u>	<u>1,9704</u>	0,1023	0,1076	0,1131	<b>42'</b>
<b>20'</b>	<b><u>1,6845</u></b>	<b><u>1,7292</u></b>	<b><u>1,7752</u></b>	<b><u>1,8226</u></b>	<b><u>1,8711</u></b>	<b><u>1,9210</u></b>	<b><u>1,9721</u></b>	<b>0,1024</b>	<b>0,1078</b>	<b>0,1133</b>	<b>40'</b>
<b>22'</b>	<u>1,6860</u>	<u>1,7307</u>	<u>1,7768</u>	<u>1,8242</u>	<u>1,8728</u>	<u>1,9227</u>	<u>1,9738</u>	0,1026	0,1080	0,1134	<b>38'</b>
<b>24'</b>	<u>1,6874</u>	<u>1,7322</u>	<u>1,7784</u>	<u>1,8258</u>	<u>1,8744</u>	<u>1,9244</u>	<u>1,9755</u>	0,1028	0,1082	0,1136	<b>36'</b>
<b>26'</b>	<u>1,6889</u>	<u>1,7338</u>	<u>1,7799</u>	<u>1,8274</u>	<u>1,8761</u>	<u>1,9260</u>	<u>1,9773</u>	0,1030	0,1083	0,1138	<b>34'</b>
<b>28'</b>	<u>1,6904</u>	<u>1,7353</u>	<u>1,7815</u>	<u>1,8290</u>	<u>1,8777</u>	<u>1,9277</u>	<u>1,9790</u>	0,1031	0,1085	0,1140	<b>32'</b>
<b>30'</b>	<b><u>1,6919</u></b>	<b><u>1,7368</u></b>	<b><u>1,7830</u></b>	<b><u>1,8306</u></b>	<b><u>1,8794</u></b>	<b><u>1,9294</u></b>	<b><u>1,9807</u></b>	<b>0,1033</b>	<b>0,1087</b>	<b>0,1142</b>	<b>30'</b>
<b>32'</b>	<u>1,6933</u>	<u>1,7383</u>	<u>1,7846</u>	<u>1,8322</u>	<u>1,8810</u>	<u>1,9311</u>	<u>1,9824</u>	0,1035	0,1089	0,1144	<b>28'</b>
<b>34'</b>	<u>1,6948</u>	<u>1,7398</u>	<u>1,7862</u>	<u>1,8338</u>	<u>1,8827</u>	<u>1,9328</u>	<u>1,9842</u>	0,1037	0,1091	0,1146	<b>26'</b>
<b>36'</b>	<u>1,6963</u>	<u>1,7414</u>	<u>1,7877</u>	<u>1,8354</u>	<u>1,8843</u>	<u>1,9345</u>	<u>1,9859</u>	0,1039	0,1092	0,1147	<b>24'</b>
<b>38'</b>	<u>1,6978</u>	<u>1,7429</u>	<u>1,7893</u>	<u>1,8370</u>	<u>1,8860</u>	<u>1,9362</u>	<u>1,9876</u>	0,1040	0,1094	0,1149	<b>22'</b>
<b>40'</b>	<b><u>1,6993</u></b>	<b><u>1,7444</u></b>	<b><u>1,7909</u></b>	<b><u>1,8386</u></b>	<b><u>1,8876</u></b>	<b><u>1,9379</u></b>	<b><u>1,9894</u></b>	<b>0,1042</b>	<b>0,1096</b>	<b>0,1151</b>	<b>20'</b>
<b>42'</b>	<u>1,7007</u>	<u>1,7459</u>	<u>1,7924</u>	<u>1,8402</u>	<u>1,8893</u>	<u>1,9396</u>	<u>1,9911</u>	0,1044	0,1098	0,1153	<b>18'</b>
<b>44'</b>	<u>1,7022</u>	<u>1,7475</u>	<u>1,7940</u>	<u>1,8418</u>	<u>1,8909</u>	<u>1,9413</u>	<u>1,9929</u>	0,1046	0,1100	0,1155	<b>16'</b>
<b>46'</b>	<u>1,7037</u>	<u>1,7490</u>	<u>1,7956</u>	<u>1,8435</u>	<u>1,8926</u>	<u>1,9430</u>	<u>1,9946</u>	0,1047	0,1101	0,1157	<b>14'</b>
<b>48'</b>	<u>1,7052</u>	<u>1,7505</u>	<u>1,7972</u>	<u>1,8451</u>	<u>1,8943</u>	<u>1,9447</u>	<u>1,9963</u>	0,1049	0,1103	0,1159	<b>12'</b>
<b>50'</b>	<b><u>1,7067</u></b>	<b><u>1,7521</u></b>	<b><u>1,7987</u></b>	<b><u>1,8467</u></b>	<b><u>1,8959</u></b>	<b><u>1,9464</u></b>	<b><u>1,9981</u></b>	<b>0,1051</b>	<b>0,1105</b>	<b>0,1160</b>	<b>10'</b>
<b>52'</b>	<u>1,7082</u>	<u>1,7536</u>	<u>1,8003</u>	<u>1,8483</u>	<u>1,8976</u>	<u>1,9481</u>	<u>1,9998</u>	0,1053	0,1107	0,1162	<b>8'</b>
<b>54'</b>	<u>1,7097</u>	<u>1,7551</u>	<u>1,8019</u>	<u>1,8499</u>	<u>1,8992</u>	<u>1,9498</u>	0,1002	0,1055	0,1109	0,1164	<b>6'</b>
<b>56'</b>	<u>1,7112</u>	<u>1,7567</u>	<u>1,8035</u>	<u>1,8516</u>	<u>1,9009</u>	<u>1,9515</u>	0,1003	0,1056	0,1111	0,1166	<b>4'</b>
<b>58'</b>	<u>1,7127</u>	<u>1,7582</u>	<u>1,8051</u>	<u>1,8532</u>	<u>1,9026</u>	<u>1,9532</u>	0,1005	0,1058	0,1112	0,1168	<b>2'</b>
<b>60'</b>	<u>1,7142</u>	<u>1,7598</u>	<u>1,8066</u>	<u>1,8548</u>	<u>1,9042</u>	<u>1,9549</u>	0,1007	0,1060	0,1114	0,1170	<b>0'</b>
	<b>329°</b>	<b>328°</b>	<b>327°</b>	<b>326°</b>	<b>325°</b>	<b>324°</b>	<b>323°</b>	<b>322°</b>	<b>321°</b>	<b>320°</b>	$180^\circ \leq \theta$

Usage:  $hv(326^\circ 32') = hv(33^\circ 28') = 0.0829$  denoted as 1,8290

$\theta \leq 180^\circ$	$40^\circ$	$41^\circ$	$42^\circ$	$43^\circ$	$44^\circ$	$45^\circ$	$46^\circ$	$47^\circ$	$48^\circ$	$49^\circ$	
$0'$	0,1170	0,1226	0,1284	0,1343	0,1403	0,1464	0,1527	0,1590	0,1654	0,1720	<b><math>60'</math></b>
$2'$	0,1172	0,1228	0,1286	0,1345	0,1405	0,1467	0,1529	0,1592	0,1657	0,1722	$58'$
$4'$	0,1174	0,1230	0,1288	0,1347	0,1407	0,1469	0,1531	0,1594	0,1659	0,1724	$56'$
$6'$	0,1175	0,1232	0,1290	0,1349	0,1409	0,1471	0,1533	0,1596	0,1661	0,1726	$54'$
$8'$	0,1177	0,1234	0,1292	0,1351	0,1411	0,1473	0,1535	0,1599	0,1663	0,1728	$52'$
<b><math>10'</math></b>	<b>0,1179</b>	<b>0,1236</b>	<b>0,1294</b>	<b>0,1353</b>	<b>0,1413</b>	<b>0,1475</b>	<b>0,1537</b>	<b>0,1601</b>	<b>0,1665</b>	<b>0,1731</b>	<b><math>50'</math></b>
$12'$	0,1181	0,1238	0,1296	0,1355	0,1415	0,1477	0,1539	0,1603	0,1667	0,1733	$48'$
$14'$	0,1183	0,1240	0,1298	0,1357	0,1417	0,1479	0,1541	0,1605	0,1670	0,1735	$46'$
$16'$	0,1185	0,1242	0,1300	0,1359	0,1420	0,1481	0,1543	0,1607	0,1672	0,1737	$44'$
$18'$	0,1187	0,1244	0,1302	0,1361	0,1422	0,1483	0,1546	0,1609	0,1674	0,1740	$42'$
<b><math>20'</math></b>	<b>0,1189</b>	<b>0,1246</b>	<b>0,1304</b>	<b>0,1363</b>	<b>0,1424</b>	<b>0,1485</b>	<b>0,1548</b>	<b>0,1611</b>	<b>0,1676</b>	<b>0,1742</b>	<b><math>40'</math></b>
$22'$	0,1190	0,1248	0,1306	0,1365	0,1426	0,1487	0,1550	0,1613	0,1678	0,1744	$38'$
$24'$	0,1192	0,1249	0,1308	0,1367	0,1428	0,1489	0,1552	0,1616	0,1680	0,1746	$36'$
$26'$	0,1194	0,1251	0,1310	0,1369	0,1430	0,1491	0,1554	0,1618	0,1683	0,1748	$34'$
$28'$	0,1196	0,1253	0,1312	0,1371	0,1432	0,1493	0,1556	0,1620	0,1685	0,1751	$32'$
<b><math>30'</math></b>	<b>0,1198</b>	<b>0,1255</b>	<b>0,1314</b>	<b>0,1373</b>	<b>0,1434</b>	<b>0,1495</b>	<b>0,1558</b>	<b>0,1622</b>	<b>0,1687</b>	<b>0,1753</b>	<b><math>30'</math></b>
$32'$	0,1200	0,1257	0,1316	0,1375	0,1436	0,1498	0,1560	0,1624	0,1689	0,1755	$28'$
$34'$	0,1202	0,1259	0,1318	0,1377	0,1438	0,1500	0,1562	0,1626	0,1691	0,1757	$26'$
$36'$	0,1204	0,1261	0,1320	0,1379	0,1440	0,1502	0,1565	0,1628	0,1693	0,1759	$24'$
$38'$	0,1206	0,1263	0,1321	0,1381	0,1442	0,1504	0,1567	0,1631	0,1696	0,1762	$22'$
<b><math>40'</math></b>	<b>0,1207</b>	<b>0,1265</b>	<b>0,1323</b>	<b>0,1383</b>	<b>0,1444</b>	<b>0,1506</b>	<b>0,1569</b>	<b>0,1633</b>	<b>0,1698</b>	<b>0,1764</b>	<b><math>20'</math></b>
$42'$	0,1209	0,1267	0,1325	0,1385	0,1446	0,1508	0,1571	0,1635	0,1700	0,1766	$18'$
$44'$	0,1211	0,1269	0,1327	0,1387	0,1448	0,1510	0,1573	0,1637	0,1702	0,1768	$16'$
$46'$	0,1213	0,1271	0,1329	0,1389	0,1450	0,1512	0,1575	0,1639	0,1704	0,1770	$14'$
$48'$	0,1215	0,1273	0,1331	0,1391	0,1452	0,1514	0,1577	0,1641	0,1707	0,1773	$12'$
<b><math>50'</math></b>	<b>0,1217</b>	<b>0,1275</b>	<b>0,1333</b>	<b>0,1393</b>	<b>0,1454</b>	<b>0,1516</b>	<b>0,1579</b>	<b>0,1644</b>	<b>0,1709</b>	<b>0,1775</b>	<b><math>10'</math></b>
$52'$	0,1219	0,1277	0,1335	0,1395	0,1456	0,1518	0,1582	0,1646	0,1711	0,1777	$8'$
$54'$	0,1221	0,1278	0,1337	0,1397	0,1458	0,1520	0,1584	0,1648	0,1713	0,1779	$6'$
$56'$	0,1223	0,1280	0,1339	0,1399	0,1460	0,1523	0,1586	0,1650	0,1715	0,1782	$4'$
$58'$	0,1225	0,1282	0,1341	0,1401	0,1462	0,1525	0,1588	0,1652	0,1718	0,1784	$2'$
<b><math>60'</math></b>	<b>0,1226</b>	<b>0,1284</b>	<b>0,1343</b>	<b>0,1403</b>	<b>0,1464</b>	<b>0,1527</b>	<b>0,1590</b>	<b>0,1654</b>	<b>0,1720</b>	<b>0,1786</b>	<b><math>0'</math></b>
	<b><math>319^\circ</math></b>	<b><math>318^\circ</math></b>	<b><math>317^\circ</math></b>	<b><math>316^\circ</math></b>	<b><math>315^\circ</math></b>	<b><math>314^\circ</math></b>	<b><math>313^\circ</math></b>	<b><math>312^\circ</math></b>	<b><math>311^\circ</math></b>	<b><math>310^\circ</math></b>	$180^\circ \leq \theta$

Usage:  $hv(315^\circ 02') = hv(44^\circ 58') = 0.1462$  denoted as 0,1462

$\theta \leq 180^\circ$	<b>50°</b>	<b>51°</b>	<b>52°</b>	<b>53°</b>	<b>54°</b>	<b>55°</b>	<b>56°</b>	<b>57°</b>	<b>58°</b>	<b>59°</b>	
<b>0'</b>	0,1786	0,1853	0,1922	0,1991	0,2061	0,2132	0,2204	0,2277	0,2350	0,2425	<b>60'</b>
<b>2'</b>	0,1788	0,1856	0,1924	0,1993	0,2063	0,2135	0,2206	0,2279	0,2353	0,2427	<b>58'</b>
<b>4'</b>	0,1791	0,1858	0,1926	0,1996	0,2066	0,2137	0,2209	0,2282	0,2355	0,2430	<b>56'</b>
<b>6'</b>	0,1793	0,1860	0,1929	0,1998	0,2068	0,2139	0,2211	0,2284	0,2358	0,2432	<b>54'</b>
<b>8'</b>	0,1795	0,1862	0,1931	0,2000	0,2070	0,2142	0,2214	0,2287	0,2360	0,2435	<b>52'</b>
<b>10'</b>	<b>0,1797</b>	<b>0,1865</b>	<b>0,1933</b>	<b>0,2003</b>	<b>0,2073</b>	<b>0,2144</b>	<b>0,2216</b>	<b>0,2289</b>	<b>0,2363</b>	<b>0,2437</b>	<b>50'</b>
<b>12'</b>	0,1799	0,1867	0,1935	0,2005	0,2075	0,2146	0,2219	0,2291	0,2365	0,2440	<b>48'</b>
<b>14'</b>	0,1802	0,1869	0,1938	0,2007	0,2078	0,2149	0,2221	0,2294	0,2368	0,2442	<b>46'</b>
<b>16'</b>	0,1804	0,1872	0,1940	0,2010	0,2080	0,2151	0,2223	0,2296	0,2370	0,2445	<b>44'</b>
<b>18'</b>	0,1806	0,1874	0,1942	0,2012	0,2082	0,2154	0,2226	0,2299	0,2373	0,2447	<b>42'</b>
<b>20'</b>	<b>0,1808</b>	<b>0,1876</b>	<b>0,1945</b>	<b>0,2014</b>	<b>0,2085</b>	<b>0,2156</b>	<b>0,2228</b>	<b>0,2301</b>	<b>0,2375</b>	<b>0,2450</b>	<b>40'</b>
<b>22'</b>	0,1811	0,1878	0,1947	0,2017	0,2087	0,2158	0,2231	0,2304	0,2378	0,2452	<b>38'</b>
<b>24'</b>	0,1813	0,1881	0,1949	0,2019	0,2089	0,2161	0,2233	0,2306	0,2380	0,2455	<b>36'</b>
<b>26'</b>	0,1815	0,1883	0,1952	0,2021	0,2092	0,2163	0,2235	0,2309	0,2383	0,2457	<b>34'</b>
<b>28'</b>	0,1817	0,1885	0,1954	0,2024	0,2094	0,2166	0,2238	0,2311	0,2385	0,2460	<b>32'</b>
<b>30'</b>	<b>0,1820</b>	<b>0,1887</b>	<b>0,1956</b>	<b>0,2026</b>	<b>0,2096</b>	<b>0,2168</b>	<b>0,2240</b>	<b>0,2314</b>	<b>0,2388</b>	<b>0,2462</b>	<b>30'</b>
<b>32'</b>	0,1822	0,1890	0,1959	0,2028	0,2099	0,2170	0,2243	0,2316	0,2390	0,2465	<b>28'</b>
<b>34'</b>	0,1824	0,1892	0,1961	0,2031	0,2101	0,2173	0,2245	0,2318	0,2392	0,2467	<b>26'</b>
<b>36'</b>	0,1826	0,1894	0,1963	0,2033	0,2104	0,2175	0,2248	0,2321	0,2395	0,2470	<b>24'</b>
<b>38'</b>	0,1829	0,1897	0,1965	0,2035	0,2106	0,2178	0,2250	0,2323	0,2397	0,2472	<b>22'</b>
<b>40'</b>	<b>0,1831</b>	<b>0,1899</b>	<b>0,1968</b>	<b>0,2038</b>	<b>0,2108</b>	<b>0,2180</b>	<b>0,2252</b>	<b>0,2326</b>	<b>0,2400</b>	<b>0,2475</b>	<b>20'</b>
<b>42'</b>	0,1833	0,1901	0,1970	0,2040	0,2111	0,2182	0,2255	0,2328	0,2402	0,2477	<b>18'</b>
<b>44'</b>	0,1835	0,1903	0,1972	0,2042	0,2113	0,2185	0,2257	0,2331	0,2405	0,2480	<b>16'</b>
<b>46'</b>	0,1838	0,1906	0,1975	0,2045	0,2115	0,2187	0,2260	0,2333	0,2407	0,2482	<b>14'</b>
<b>48'</b>	0,1840	0,1908	0,1977	0,2047	0,2118	0,2190	0,2262	0,2336	0,2410	0,2485	<b>12'</b>
<b>50'</b>	<b>0,1842</b>	<b>0,1910</b>	<b>0,1979</b>	<b>0,2049</b>	<b>0,2120</b>	<b>0,2192</b>	<b>0,2265</b>	<b>0,2338</b>	<b>0,2412</b>	<b>0,2487</b>	<b>10'</b>
<b>52'</b>	0,1844	0,1913	0,1982	0,2052	0,2123	0,2194	0,2267	0,2341	0,2415	0,2490	<b>8'</b>
<b>54'</b>	0,1847	0,1915	0,1984	0,2054	0,2125	0,2197	0,2269	0,2343	0,2417	0,2492	<b>6'</b>
<b>56'</b>	0,1849	0,1917	0,1986	0,2056	0,2127	0,2199	0,2272	0,2345	0,2420	0,2495	<b>4'</b>
<b>58'</b>	0,1851	0,1919	0,1989	0,2059	0,2130	0,2202	0,2274	0,2348	0,2422	0,2497	<b>2'</b>
<b>60'</b>	0,1853	0,1922	0,1991	0,2061	0,2132	0,2204	0,2277	0,2350	0,2425	0,2500	<b>0'</b>
	<b>309°</b>	<b>308°</b>	<b>307°</b>	<b>306°</b>	<b>305°</b>	<b>304°</b>	<b>303°</b>	<b>302°</b>	<b>301°</b>	<b>300°</b>	$180^\circ \leq \theta$

Usage:  $hv(309^\circ 26') = hv(50^\circ 34') = 0.1824$  denoted as 0,1824

$\theta \leq 180^\circ$	<b>60°</b>	<b>61°</b>	<b>62°</b>	<b>63°</b>	<b>64°</b>	<b>65°</b>	<b>66°</b>	<b>67°</b>	<b>68°</b>	<b>69°</b>	
<b>0'</b>	0,2500	0,2576	0,2653	0,2730	0,2808	0,2887	0,2966	0,3046	0,3127	0,3208	<b>60'</b>
<b>2'</b>	0,2503	0,2578	0,2655	0,2733	0,2811	0,2890	0,2969	0,3049	0,3130	0,3211	<b>58'</b>
<b>4'</b>	0,2505	0,2581	0,2658	0,2735	0,2813	0,2892	0,2972	0,3052	0,3132	0,3214	<b>56'</b>
<b>6'</b>	0,2508	0,2584	0,2660	0,2738	0,2816	0,2895	0,2974	0,3054	0,3135	0,3216	<b>54'</b>
<b>8'</b>	0,2510	0,2586	0,2663	0,2740	0,2819	0,2897	0,2977	0,3057	0,3138	0,3219	<b>52'</b>
<b>10'</b>	<b>0,2513</b>	<b>0,2589</b>	<b>0,2665</b>	<b>0,2743</b>	<b>0,2821</b>	<b>0,2900</b>	<b>0,2980</b>	<b>0,3060</b>	<b>0,3140</b>	<b>0,3222</b>	<b>50'</b>
<b>12'</b>	0,2515	0,2591	0,2668	0,2746	0,2824	0,2903	0,2982	0,3062	0,3143	0,3224	<b>48'</b>
<b>14'</b>	0,2518	0,2594	0,2671	0,2748	0,2826	0,2905	0,2985	0,3065	0,3146	0,3227	<b>46'</b>
<b>16'</b>	0,2520	0,2596	0,2673	0,2751	0,2829	0,2908	0,2988	0,3068	0,3149	0,3230	<b>44'</b>
<b>18'</b>	0,2523	0,2599	0,2676	0,2753	0,2832	0,2911	0,2990	0,3070	0,3151	0,3233	<b>42'</b>
<b>20'</b>	<b>0,2525</b>	<b>0,2601</b>	<b>0,2678</b>	<b>0,2756</b>	<b>0,2834</b>	<b>0,2913</b>	<b>0,2993</b>	<b>0,3073</b>	<b>0,3154</b>	<b>0,3235</b>	<b>40'</b>
<b>22'</b>	0,2528	0,2604	0,2681	0,2759	0,2837	0,2916	0,2996	0,3076	0,3157	0,3238	<b>38'</b>
<b>24'</b>	0,2530	0,2607	0,2684	0,2761	0,2840	0,2919	0,2998	0,3079	0,3159	0,3241	<b>36'</b>
<b>26'</b>	0,2533	0,2609	0,2686	0,2764	0,2842	0,2921	0,3001	0,3081	0,3162	0,3244	<b>34'</b>
<b>28'</b>	0,2535	0,2612	0,2689	0,2766	0,2845	0,2924	0,3004	0,3084	0,3165	0,3246	<b>32'</b>
<b>30'</b>	<b>0,2538</b>	<b>0,2614</b>	<b>0,2691</b>	<b>0,2769</b>	<b>0,2847</b>	<b>0,2927</b>	<b>0,3006</b>	<b>0,3087</b>	<b>0,3167</b>	<b>0,3249</b>	<b>30'</b>
<b>32'</b>	0,2540	0,2617	0,2694	0,2772	0,2850	0,2929	0,3009	0,3089	0,3170	0,3252	<b>28'</b>
<b>34'</b>	0,2543	0,2619	0,2696	0,2774	0,2853	0,2932	0,3012	0,3092	0,3173	0,3254	<b>26'</b>
<b>36'</b>	0,2545	0,2622	0,2699	0,2777	0,2855	0,2934	0,3014	0,3095	0,3176	0,3257	<b>24'</b>
<b>38'</b>	0,2548	0,2624	0,2702	0,2779	0,2858	0,2937	0,3017	0,3097	0,3178	0,3260	<b>22'</b>
<b>40'</b>	<b>0,2551</b>	<b>0,2627</b>	<b>0,2704</b>	<b>0,2782</b>	<b>0,2861</b>	<b>0,2940</b>	<b>0,3020</b>	<b>0,3100</b>	<b>0,3181</b>	<b>0,3263</b>	<b>20'</b>
<b>42'</b>	0,2553	0,2630	0,2707	0,2785	0,2863	0,2942	0,3022	0,3103	0,3184	0,3265	<b>18'</b>
<b>44'</b>	0,2556	0,2632	0,2709	0,2787	0,2866	0,2945	0,3025	0,3105	0,3186	0,3268	<b>16'</b>
<b>46'</b>	0,2558	0,2635	0,2712	0,2790	0,2868	0,2948	0,3028	0,3108	0,3189	0,3271	<b>14'</b>
<b>48'</b>	0,2561	0,2637	0,2715	0,2792	0,2871	0,2950	0,3030	0,3111	0,3192	0,3274	<b>12'</b>
<b>50'</b>	<b>0,2563</b>	<b>0,2640</b>	<b>0,2717</b>	<b>0,2795</b>	<b>0,2874</b>	<b>0,2953</b>	<b>0,3033</b>	<b>0,3113</b>	<b>0,3195</b>	<b>0,3276</b>	<b>10'</b>
<b>52'</b>	0,2566	0,2642	0,2720	0,2798	0,2876	0,2956	0,3036	0,3116	0,3197	0,3279	<b>8'</b>
<b>54'</b>	0,2568	0,2645	0,2722	0,2800	0,2879	0,2958	0,3038	0,3119	0,3200	0,3282	<b>6'</b>
<b>56'</b>	0,2571	0,2648	0,2725	0,2803	0,2882	0,2961	0,3041	0,3122	0,3203	0,3284	<b>4'</b>
<b>58'</b>	0,2573	0,2650	0,2727	0,2806	0,2884	0,2964	0,3044	0,3124	0,3205	0,3287	<b>2'</b>
<b>60'</b>	0,2576	0,2653	0,2730	0,2808	0,2887	0,2966	0,3046	0,3127	0,3208	0,3290	<b>0'</b>
	<b>299°</b>	<b>298°</b>	<b>297°</b>	<b>296°</b>	<b>295°</b>	<b>294°</b>	<b>293°</b>	<b>292°</b>	<b>291°</b>	<b>290°</b>	$180^\circ \leq \theta$

Usage:  $hv(290^\circ 50') = hv(69^\circ 10') = 0.3222$  denoted as 0,3222

$\theta \leq 180^\circ$	<b>70°</b>	<b>71°</b>	<b>72°</b>	<b>73°</b>	<b>74°</b>	<b>75°</b>	<b>76°</b>	<b>77°</b>	<b>78°</b>	<b>79°</b>	
<b>0'</b>	0,3290	0,3372	0,3455	0,3538	0,3622	0,3706	0,3790	0,3875	0,3960	0,4046	<b>60'</b>
<b>2'</b>	0,3293	0,3375	0,3458	0,3541	0,3625	0,3709	0,3793	0,3878	0,3963	0,4049	<b>58'</b>
<b>4'</b>	0,3295	0,3378	0,3460	0,3544	0,3627	0,3712	0,3796	0,3881	0,3966	0,4052	<b>56'</b>
<b>6'</b>	0,3298	0,3380	0,3463	0,3546	0,3630	0,3714	0,3799	0,3884	0,3969	0,4055	<b>54'</b>
<b>8'</b>	0,3301	0,3383	0,3466	0,3549	0,3633	0,3717	0,3802	0,3887	0,3972	0,4057	<b>52'</b>
<b>10'</b>	<b>0,3304</b>	<b>0,3386</b>	<b>0,3469</b>	<b>0,3552</b>	<b>0,3636</b>	<b>0,3720</b>	<b>0,3805</b>	<b>0,3889</b>	<b>0,3975</b>	<b>0,4060</b>	<b>50'</b>
<b>12'</b>	0,3306	0,3389	0,3472	0,3555	0,3639	0,3723	0,3807	0,3892	0,3978	0,4063	<b>48'</b>
<b>14'</b>	0,3309	0,3391	0,3474	0,3558	0,3641	0,3726	0,3810	0,3895	0,3980	0,4066	<b>46'</b>
<b>16'</b>	0,3312	0,3394	0,3477	0,3560	0,3644	0,3728	0,3813	0,3898	0,3983	0,4069	<b>44'</b>
<b>18'</b>	0,3315	0,3397	0,3480	0,3563	0,3647	0,3731	0,3816	0,3901	0,3986	0,4072	<b>42'</b>
<b>20'</b>	<b>0,3317</b>	<b>0,3400</b>	<b>0,3483</b>	<b>0,3566</b>	<b>0,3650</b>	<b>0,3734</b>	<b>0,3819</b>	<b>0,3904</b>	<b>0,3989</b>	<b>0,4075</b>	<b>40'</b>
<b>22'</b>	0,3320	0,3402	0,3485	0,3569	0,3653	0,3737	0,3821	0,3906	0,3992	0,4077	<b>38'</b>
<b>24'</b>	0,3323	0,3405	0,3488	0,3572	0,3655	0,3740	0,3824	0,3909	0,3995	0,4080	<b>36'</b>
<b>26'</b>	0,3325	0,3408	0,3491	0,3574	0,3658	0,3742	0,3827	0,3912	0,3997	0,4083	<b>34'</b>
<b>28'</b>	0,3328	0,3411	0,3494	0,3577	0,3661	0,3745	0,3830	0,3915	0,4000	0,4086	<b>32'</b>
<b>30'</b>	<b>0,3331</b>	<b>0,3413</b>	<b>0,3496</b>	<b>0,3580</b>	<b>0,3664</b>	<b>0,3748</b>	<b>0,3833</b>	<b>0,3918</b>	<b>0,4003</b>	<b>0,4089</b>	<b>30'</b>
<b>32'</b>	0,3334	0,3416	0,3499	0,3583	0,3667	0,3751	0,3836	0,3921	0,4006	0,4092	<b>28'</b>
<b>34'</b>	0,3336	0,3419	0,3502	0,3586	0,3669	0,3754	0,3838	0,3923	0,4009	0,4095	<b>26'</b>
<b>36'</b>	0,3339	0,3422	0,3505	0,3588	0,3672	0,3757	0,3841	0,3926	0,4012	0,4097	<b>24'</b>
<b>38'</b>	0,3342	0,3425	0,3508	0,3591	0,3675	0,3759	0,3844	0,3929	0,4015	0,4100	<b>22'</b>
<b>40'</b>	<b>0,3345</b>	<b>0,3427</b>	<b>0,3510</b>	<b>0,3594</b>	<b>0,3678</b>	<b>0,3762</b>	<b>0,3847</b>	<b>0,3932</b>	<b>0,4017</b>	<b>0,4103</b>	<b>20'</b>
<b>42'</b>	0,3347	0,3430	0,3513	0,3597	0,3681	0,3765	0,3850	0,3935	0,4020	0,4106	<b>18'</b>
<b>44'</b>	0,3350	0,3433	0,3516	0,3599	0,3683	0,3768	0,3853	0,3938	0,4023	0,4109	<b>16'</b>
<b>46'</b>	0,3353	0,3436	0,3519	0,3602	0,3686	0,3771	0,3855	0,3941	0,4026	0,4112	<b>14'</b>
<b>48'</b>	0,3356	0,3438	0,3521	0,3605	0,3689	0,3773	0,3858	0,3943	0,4029	0,4115	<b>12'</b>
<b>50'</b>	<b>0,3358</b>	<b>0,3441</b>	<b>0,3524</b>	<b>0,3608</b>	<b>0,3692</b>	<b>0,3776</b>	<b>0,3861</b>	<b>0,3946</b>	<b>0,4032</b>	<b>0,4117</b>	<b>10'</b>
<b>52'</b>	0,3361	0,3444	0,3527	0,3611	0,3695	0,3779	0,3864	0,3949	0,4035	0,4120	<b>8'</b>
<b>54'</b>	0,3364	0,3447	0,3530	0,3613	0,3697	0,3782	0,3867	0,3952	0,4037	0,4123	<b>6'</b>
<b>56'</b>	0,3367	0,3449	0,3533	0,3616	0,3700	0,3785	0,3870	0,3955	0,4040	0,4126	<b>4'</b>
<b>58'</b>	0,3369	0,3452	0,3535	0,3619	0,3703	0,3788	0,3872	0,3958	0,4043	0,4129	<b>2'</b>
<b>60'</b>	0,3372	0,3455	0,3538	0,3622	0,3706	0,3790	0,3875	0,3960	0,4046	0,4132	<b>0'</b>
	<b>289°</b>	<b>288°</b>	<b>287°</b>	<b>286°</b>	<b>285°</b>	<b>284°</b>	<b>283°</b>	<b>282°</b>	<b>281°</b>	<b>280°</b>	$180^\circ \leq \theta$

Usage:  $hv(289^\circ 10') = hv(70^\circ 50') = 0.3358$  denoted as 0,3358



$\theta \leq 180^\circ$	$80^\circ$	$81^\circ$	$82^\circ$	$83^\circ$	$84^\circ$	$85^\circ$	$86^\circ$	$87^\circ$	$88^\circ$	$89^\circ$	
$0'$	0,4132	0,4218	0,4304	0,4391	0,4477	0,4564	0,4651	0,4738	0,4826	0,4913	<b><math>60'</math></b>
$2'$	0,4135	0,4221	0,4307	0,4394	0,4480	0,4567	0,4654	0,4741	0,4828	0,4916	$58'$
$4'$	0,4137	0,4224	0,4310	0,4396	0,4483	0,4570	0,4657	0,4744	0,4831	0,4919	$56'$
$6'$	0,4140	0,4226	0,4313	0,4399	0,4486	0,4573	0,4660	0,4747	0,4834	0,4921	$54'$
$8'$	0,4143	0,4229	0,4316	0,4402	0,4489	0,4576	0,4663	0,4750	0,4837	0,4924	$52'$
<b><math>10'</math></b>	<b>0,4146</b>	<b>0,4232</b>	<b>0,4319</b>	<b>0,4405</b>	<b>0,4492</b>	<b>0,4579</b>	<b>0,4666</b>	<b>0,4753</b>	<b>0,4840</b>	<b>0,4927</b>	<b><math>50'</math></b>
$12'$	0,4149	0,4235	0,4321	0,4408	0,4495	0,4582	0,4669	0,4756	0,4843	0,4930	$48'$
$14'$	0,4152	0,4238	0,4324	0,4411	0,4498	0,4585	0,4672	0,4759	0,4846	0,4933	$46'$
$16'$	0,4155	0,4241	0,4327	0,4414	0,4501	0,4587	0,4674	0,4762	0,4849	0,4936	$44'$
$18'$	0,4158	0,4244	0,4330	0,4417	0,4503	0,4590	0,4677	0,4764	0,4852	0,4939	$42'$
<b><math>20'</math></b>	<b>0,4160</b>	<b>0,4247</b>	<b>0,4333</b>	<b>0,4420</b>	<b>0,4506</b>	<b>0,4593</b>	<b>0,4680</b>	<b>0,4767</b>	<b>0,4855</b>	<b>0,4942</b>	<b><math>40'</math></b>
$22'$	0,4163	0,4249	0,4336	0,4422	0,4509	0,4596	0,4683	0,4770	0,4857	0,4945	$38'$
$24'$	0,4166	0,4252	0,4339	0,4425	0,4512	0,4599	0,4686	0,4773	0,4860	0,4948	$36'$
$26'$	0,4169	0,4255	0,4342	0,4428	0,4515	0,4602	0,4689	0,4776	0,4863	0,4951	$34'$
$28'$	0,4172	0,4258	0,4344	0,4431	0,4518	0,4605	0,4692	0,4779	0,4866	0,4953	$32'$
<b><math>30'</math></b>	<b>0,4175</b>	<b>0,4261</b>	<b>0,4347</b>	<b>0,4434</b>	<b>0,4521</b>	<b>0,4608</b>	<b>0,4695</b>	<b>0,4782</b>	<b>0,4869</b>	<b>0,4956</b>	<b><math>30'</math></b>
$32'$	0,4178	0,4264	0,4350	0,4437	0,4524	0,4611	0,4698	0,4785	0,4872	0,4959	$28'$
$34'$	0,4181	0,4267	0,4353	0,4440	0,4527	0,4614	0,4701	0,4788	0,4875	0,4962	$26'$
$36'$	0,4183	0,4270	0,4356	0,4443	0,4529	0,4616	0,4703	0,4791	0,4878	0,4965	$24'$
$38'$	0,4186	0,4272	0,4359	0,4446	0,4532	0,4619	0,4706	0,4794	0,4881	0,4968	$22'$
<b><math>40'</math></b>	<b>0,4189</b>	<b>0,4275</b>	<b>0,4362</b>	<b>0,4448</b>	<b>0,4535</b>	<b>0,4622</b>	<b>0,4709</b>	<b>0,4796</b>	<b>0,4884</b>	<b>0,4971</b>	<b><math>20'</math></b>
$42'$	0,4192	0,4278	0,4365	0,4451	0,4538	0,4625	0,4712	0,4799	0,4887	0,4974	$18'$
$44'$	0,4195	0,4281	0,4368	0,4454	0,4541	0,4628	0,4715	0,4802	0,4889	0,4977	$16'$
$46'$	0,4198	0,4284	0,4370	0,4457	0,4544	0,4631	0,4718	0,4805	0,4892	0,4980	$14'$
$48'$	0,4201	0,4287	0,4373	0,4460	0,4547	0,4634	0,4721	0,4808	0,4895	0,4983	$12'$
<b><math>50'</math></b>	<b>0,4203</b>	<b>0,4290</b>	<b>0,4376</b>	<b>0,4463</b>	<b>0,4550</b>	<b>0,4637</b>	<b>0,4724</b>	<b>0,4811</b>	<b>0,4898</b>	<b>0,4985</b>	<b><math>10'</math></b>
$52'$	0,4206	0,4293	0,4379	0,4466	0,4553	0,4640	0,4727	0,4814	0,4901	0,4988	$8'$
$54'$	0,4209	0,4295	0,4382	0,4469	0,4556	0,4643	0,4730	0,4817	0,4904	0,4991	$6'$
$56'$	0,4212	0,4298	0,4385	0,4472	0,4558	0,4645	0,4733	0,4820	0,4907	0,4994	$4'$
$58'$	0,4215	0,4301	0,4388	0,4474	0,4561	0,4648	0,4735	0,4823	0,4910	0,4997	$2'$
<b><math>60'</math></b>	<b>0,4218</b>	<b>0,4304</b>	<b>0,4391</b>	<b>0,4477</b>	<b>0,4564</b>	<b>0,4651</b>	<b>0,4738</b>	<b>0,4826</b>	<b>0,4913</b>	<b>0,5000</b>	<b><math>0'</math></b>
	<b><math>279^\circ</math></b>	<b><math>278^\circ</math></b>	<b><math>277^\circ</math></b>	<b><math>276^\circ</math></b>	<b><math>275^\circ</math></b>	<b><math>274^\circ</math></b>	<b><math>273^\circ</math></b>	<b><math>272^\circ</math></b>	<b><math>271^\circ</math></b>	<b><math>270^\circ</math></b>	$180^\circ \leq \theta$

Usage:  $hv(273^\circ 44') = hv(86^\circ 16') = 0.4674$  denoted as 0,4674

$\theta \leq 180^\circ$	<b>90°</b>	<b>91°</b>	<b>92°</b>	<b>93°</b>	<b>94°</b>	<b>95°</b>	<b>96°</b>	<b>97°</b>	<b>98°</b>	<b>99°</b>	
<b>0'</b>	0,5000	0,5087	0,5174	0,5262	0,5349	0,5436	0,5523	0,5609	0,5696	0,5782	<b>60'</b>
<b>2'</b>	0,5003	0,5090	0,5177	0,5265	0,5352	0,5439	0,5526	0,5612	0,5699	0,5785	<b>58'</b>
<b>4'</b>	0,5006	0,5093	0,5180	0,5267	0,5355	0,5442	0,5528	0,5615	0,5702	0,5788	<b>56'</b>
<b>6'</b>	0,5009	0,5096	0,5183	0,5270	0,5357	0,5444	0,5531	0,5618	0,5705	0,5791	<b>54'</b>
<b>8'</b>	0,5012	0,5099	0,5186	0,5273	0,5360	0,5447	0,5534	0,5621	0,5707	0,5794	<b>52'</b>
<b>10'</b>	<b>0,5015</b>	<b>0,5102</b>	<b>0,5189</b>	<b>0,5276</b>	<b>0,5363</b>	<b>0,5450</b>	<b>0,5537</b>	<b>0,5624</b>	<b>0,5710</b>	<b>0,5797</b>	<b>50'</b>
<b>12'</b>	0,5017	0,5105	0,5192	0,5279	0,5366	0,5453	0,5540	0,5627	0,5713	0,5799	<b>48'</b>
<b>14'</b>	0,5020	0,5108	0,5195	0,5282	0,5369	0,5456	0,5543	0,5630	0,5716	0,5802	<b>46'</b>
<b>16'</b>	0,5023	0,5111	0,5198	0,5285	0,5372	0,5459	0,5546	0,5632	0,5719	0,5805	<b>44'</b>
<b>18'</b>	0,5026	0,5113	0,5201	0,5288	0,5375	0,5462	0,5549	0,5635	0,5722	0,5808	<b>42'</b>
<b>20'</b>	<b>0,5029</b>	<b>0,5116</b>	<b>0,5204</b>	<b>0,5291</b>	<b>0,5378</b>	<b>0,5465</b>	<b>0,5552</b>	<b>0,5638</b>	<b>0,5725</b>	<b>0,5811</b>	<b>40'</b>
<b>22'</b>	0,5032	0,5119	0,5206	0,5294	0,5381	0,5468	0,5554	0,5641	0,5728	0,5814	<b>38'</b>
<b>24'</b>	0,5035	0,5122	0,5209	0,5297	0,5384	0,5471	0,5557	0,5644	0,5730	0,5817	<b>36'</b>
<b>26'</b>	0,5038	0,5125	0,5212	0,5299	0,5386	0,5473	0,5560	0,5647	0,5733	0,5819	<b>34'</b>
<b>28'</b>	0,5041	0,5128	0,5215	0,5302	0,5389	0,5476	0,5563	0,5650	0,5736	0,5822	<b>32'</b>
<b>30'</b>	<b>0,5044</b>	<b>0,5131</b>	<b>0,5218</b>	<b>0,5305</b>	<b>0,5392</b>	<b>0,5479</b>	<b>0,5566</b>	<b>0,5653</b>	<b>0,5739</b>	<b>0,5825</b>	<b>30'</b>
<b>32'</b>	0,5047	0,5134	0,5221	0,5308	0,5395	0,5482	0,5569	0,5656	0,5742	0,5828	<b>28'</b>
<b>34'</b>	0,5049	0,5137	0,5224	0,5311	0,5398	0,5485	0,5572	0,5658	0,5745	0,5831	<b>26'</b>
<b>36'</b>	0,5052	0,5140	0,5227	0,5314	0,5401	0,5488	0,5575	0,5661	0,5748	0,5834	<b>24'</b>
<b>38'</b>	0,5055	0,5143	0,5230	0,5317	0,5404	0,5491	0,5578	0,5664	0,5751	0,5837	<b>22'</b>
<b>40'</b>	<b>0,5058</b>	<b>0,5145</b>	<b>0,5233</b>	<b>0,5320</b>	<b>0,5407</b>	<b>0,5494</b>	<b>0,5580</b>	<b>0,5667</b>	<b>0,5753</b>	<b>0,5840</b>	<b>20'</b>
<b>42'</b>	0,5061	0,5148	0,5236	0,5323	0,5410	0,5497	0,5583	0,5670	0,5756	0,5842	<b>18'</b>
<b>44'</b>	0,5064	0,5151	0,5238	0,5326	0,5413	0,5499	0,5586	0,5673	0,5759	0,5845	<b>16'</b>
<b>46'</b>	0,5067	0,5154	0,5241	0,5328	0,5415	0,5502	0,5589	0,5676	0,5762	0,5848	<b>14'</b>
<b>48'</b>	0,5070	0,5157	0,5244	0,5331	0,5418	0,5505	0,5592	0,5679	0,5765	0,5851	<b>12'</b>
<b>50'</b>	<b>0,5073</b>	<b>0,5160</b>	<b>0,5247</b>	<b>0,5334</b>	<b>0,5421</b>	<b>0,5508</b>	<b>0,5595</b>	<b>0,5681</b>	<b>0,5768</b>	<b>0,5854</b>	<b>10'</b>
<b>52'</b>	0,5076	0,5163	0,5250	0,5337	0,5424	0,5511	0,5598	0,5684	0,5771	0,5857	<b>8'</b>
<b>54'</b>	0,5079	0,5166	0,5253	0,5340	0,5427	0,5514	0,5601	0,5687	0,5774	0,5860	<b>6'</b>
<b>56'</b>	0,5081	0,5169	0,5256	0,5343	0,5430	0,5517	0,5604	0,5690	0,5776	0,5863	<b>4'</b>
<b>58'</b>	0,5084	0,5172	0,5259	0,5346	0,5433	0,5520	0,5606	0,5693	0,5779	0,5865	<b>2'</b>
<b>60'</b>	0,5087	0,5174	0,5262	0,5349	0,5436	0,5523	0,5609	0,5696	0,5782	0,5868	<b>0'</b>
	<b>269°</b>	<b>268°</b>	<b>267°</b>	<b>266°</b>	<b>265°</b>	<b>264°</b>	<b>263°</b>	<b>262°</b>	<b>261°</b>	<b>260°</b>	$180^\circ \leq \theta$

Usage:  $hv(263^\circ 02') = hv(96^\circ 58') = 0.5606$  denoted as 0,5606

$\theta \leq 180^\circ$	100°	101°	102°	103°	104°	105°	106°	107°	108°	109°	
0'	0,5868	0,5954	0,6040	0,6125	0,6210	0,6294	0,6378	0,6462	0,6545	0,6628	<b>60'</b>
2'	0,5871	0,5957	0,6042	0,6128	0,6212	0,6297	0,6381	0,6465	0,6548	0,6631	58'
4'	0,5874	0,5960	0,6045	0,6130	0,6215	0,6300	0,6384	0,6467	0,6551	0,6633	56'
6'	0,5877	0,5963	0,6048	0,6133	0,6218	0,6303	0,6387	0,6470	0,6553	0,6636	54'
8'	0,5880	0,5965	0,6051	0,6136	0,6221	0,6305	0,6389	0,6473	0,6556	0,6639	52'
<b>10'</b>	<b>0,5883</b>	<b>0,5968</b>	<b>0,6054</b>	<b>0,6139</b>	<b>0,6224</b>	<b>0,6308</b>	<b>0,6392</b>	<b>0,6476</b>	<b>0,6559</b>	<b>0,6642</b>	<b>50'</b>
12'	0,5885	0,5971	0,6057	0,6142	0,6227	0,6311	0,6395	0,6479	0,6562	0,6644	48'
14'	0,5888	0,5974	0,6059	0,6145	0,6229	0,6314	0,6398	0,6481	0,6564	0,6647	46'
16'	0,5891	0,5977	0,6062	0,6147	0,6232	0,6317	0,6401	0,6484	0,6567	0,6650	44'
18'	0,5894	0,5980	0,6065	0,6150	0,6235	0,6319	0,6403	0,6487	0,6570	0,6653	42'
<b>20'</b>	<b>0,5897</b>	<b>0,5983</b>	<b>0,6068</b>	<b>0,6153</b>	<b>0,6238</b>	<b>0,6322</b>	<b>0,6406</b>	<b>0,6490</b>	<b>0,6573</b>	<b>0,6655</b>	<b>40'</b>
22'	0,5900	0,5985	0,6071	0,6156	0,6241	0,6325	0,6409	0,6492	0,6575	0,6658	38'
24'	0,5903	0,5988	0,6074	0,6159	0,6243	0,6328	0,6412	0,6495	0,6578	0,6661	36'
26'	0,5905	0,5991	0,6077	0,6162	0,6246	0,6331	0,6414	0,6498	0,6581	0,6664	34'
28'	0,5908	0,5994	0,6079	0,6164	0,6249	0,6333	0,6417	0,6501	0,6584	0,6666	32'
<b>30'</b>	<b>0,5911</b>	<b>0,5997</b>	<b>0,6082</b>	<b>0,6167</b>	<b>0,6252</b>	<b>0,6336</b>	<b>0,6420</b>	<b>0,6504</b>	<b>0,6587</b>	<b>0,6669</b>	<b>30'</b>
32'	0,5914	0,6000	0,6085	0,6170	0,6255	0,6339	0,6423	0,6506	0,6589	0,6672	28'
34'	0,5917	0,6003	0,6088	0,6173	0,6258	0,6342	0,6426	0,6509	0,6592	0,6675	26'
36'	0,5920	0,6005	0,6091	0,6176	0,6260	0,6345	0,6428	0,6512	0,6595	0,6677	24'
38'	0,5923	0,6008	0,6094	0,6179	0,6263	0,6347	0,6431	0,6515	0,6598	0,6680	22'
<b>40'</b>	<b>0,5925</b>	<b>0,6011</b>	<b>0,6096</b>	<b>0,6181</b>	<b>0,6266</b>	<b>0,6350</b>	<b>0,6434</b>	<b>0,6517</b>	<b>0,6600</b>	<b>0,6683</b>	<b>20'</b>
42'	0,5928	0,6014	0,6099	0,6184	0,6269	0,6353	0,6437	0,6520	0,6603	0,6685	18'
44'	0,5931	0,6017	0,6102	0,6187	0,6272	0,6356	0,6440	0,6523	0,6606	0,6688	16'
46'	0,5934	0,6020	0,6105	0,6190	0,6274	0,6359	0,6442	0,6526	0,6609	0,6691	14'
48'	0,5937	0,6022	0,6108	0,6193	0,6277	0,6361	0,6445	0,6528	0,6611	0,6694	12'
<b>50'</b>	<b>0,5940</b>	<b>0,6025</b>	<b>0,6111</b>	<b>0,6195</b>	<b>0,6280</b>	<b>0,6364</b>	<b>0,6448</b>	<b>0,6531</b>	<b>0,6614</b>	<b>0,6696</b>	<b>10'</b>
52'	0,5943	0,6028	0,6113	0,6198	0,6283	0,6367	0,6451	0,6534	0,6617	0,6699	8'
54'	0,5945	0,6031	0,6116	0,6201	0,6286	0,6370	0,6454	0,6537	0,6620	0,6702	6'
56'	0,5948	0,6034	0,6119	0,6204	0,6288	0,6373	0,6456	0,6540	0,6622	0,6705	4'
58'	0,5951	0,6037	0,6122	0,6207	0,6291	0,6375	0,6459	0,6542	0,6625	0,6707	2'
<b>60'</b>	<b>0,5954</b>	<b>0,6040</b>	<b>0,6125</b>	<b>0,6210</b>	<b>0,6294</b>	<b>0,6378</b>	<b>0,6462</b>	<b>0,6545</b>	<b>0,6628</b>	<b>0,6710</b>	<b>0'</b>
	<b>259°</b>	<b>258°</b>	<b>257°</b>	<b>256°</b>	<b>255°</b>	<b>254°</b>	<b>253°</b>	<b>252°</b>	<b>251°</b>	<b>250°</b>	$180^\circ \leq \theta$

Usage:  $hv(255^\circ 40') = hv(104^\circ 20') = 0.6238$  denoted as 0,6238

$\theta \leq 180^\circ$	<b>110°</b>	<b>111°</b>	<b>112°</b>	<b>113°</b>	<b>114°</b>	<b>115°</b>	<b>116°</b>	<b>117°</b>	<b>118°</b>	<b>119°</b>	
<b>0'</b>	0,6710	0,6792	0,6873	0,6954	0,7034	0,7113	0,7192	0,7270	0,7347	0,7424	<b>60'</b>
<b>2'</b>	0,6713	0,6795	0,6876	0,6956	0,7036	0,7116	0,7194	0,7273	0,7350	0,7427	<b>58'</b>
<b>4'</b>	0,6716	0,6797	0,6878	0,6959	0,7039	0,7118	0,7197	0,7275	0,7352	0,7429	<b>56'</b>
<b>6'</b>	0,6718	0,6800	0,6881	0,6962	0,7042	0,7121	0,7200	0,7278	0,7355	0,7432	<b>54'</b>
<b>8'</b>	0,6721	0,6803	0,6884	0,6964	0,7044	0,7124	0,7202	0,7280	0,7358	0,7434	<b>52'</b>
<b>10'</b>	<b>0,6724</b>	<b>0,6805</b>	<b>0,6887</b>	<b>0,6967</b>	<b>0,7047</b>	<b>0,7126</b>	<b>0,7205</b>	<b>0,7283</b>	<b>0,7360</b>	<b>0,7437</b>	<b>50'</b>
<b>12'</b>	0,6726	0,6808	0,6889	0,6970	0,7050	0,7129	0,7208	0,7285	0,7363	0,7439	<b>48'</b>
<b>14'</b>	0,6729	0,6811	0,6892	0,6972	0,7052	0,7132	0,7210	0,7288	0,7365	0,7442	<b>46'</b>
<b>16'</b>	0,6732	0,6814	0,6895	0,6975	0,7055	0,7134	0,7213	0,7291	0,7368	0,7444	<b>44'</b>
<b>18'</b>	0,6735	0,6816	0,6897	0,6978	0,7058	0,7137	0,7215	0,7293	0,7370	0,7447	<b>42'</b>
<b>20'</b>	<b>0,6737</b>	<b>0,6819</b>	<b>0,6900</b>	<b>0,6980</b>	<b>0,7060</b>	<b>0,7139</b>	<b>0,7218</b>	<b>0,7296</b>	<b>0,7373</b>	<b>0,7449</b>	<b>40'</b>
<b>22'</b>	0,6740	0,6822	0,6903	0,6983	0,7063	0,7142	0,7221	0,7298	0,7376	0,7452	<b>38'</b>
<b>24'</b>	0,6743	0,6824	0,6905	0,6986	0,7066	0,7145	0,7223	0,7301	0,7378	0,7455	<b>36'</b>
<b>26'</b>	0,6746	0,6827	0,6908	0,6988	0,7068	0,7147	0,7226	0,7304	0,7381	0,7457	<b>34'</b>
<b>28'</b>	0,6748	0,6830	0,6911	0,6991	0,7071	0,7150	0,7228	0,7306	0,7383	0,7460	<b>32'</b>
<b>30'</b>	<b>0,6751</b>	<b>0,6833</b>	<b>0,6913</b>	<b>0,6994</b>	<b>0,7073</b>	<b>0,7153</b>	<b>0,7231</b>	<b>0,7309</b>	<b>0,7386</b>	<b>0,7462</b>	<b>30'</b>
<b>32'</b>	0,6754	0,6835	0,6916	0,6996	0,7076	0,7155	0,7234	0,7311	0,7388	0,7465	<b>28'</b>
<b>34'</b>	0,6756	0,6838	0,6919	0,6999	0,7079	0,7158	0,7236	0,7314	0,7391	0,7467	<b>26'</b>
<b>36'</b>	0,6759	0,6841	0,6921	0,7002	0,7081	0,7160	0,7239	0,7316	0,7393	0,7470	<b>24'</b>
<b>38'</b>	0,6762	0,6843	0,6924	0,7004	0,7084	0,7163	0,7241	0,7319	0,7396	0,7472	<b>22'</b>
<b>40'</b>	<b>0,6765</b>	<b>0,6846</b>	<b>0,6927</b>	<b>0,7007</b>	<b>0,7087</b>	<b>0,7166</b>	<b>0,7244</b>	<b>0,7322</b>	<b>0,7399</b>	<b>0,7475</b>	<b>20'</b>
<b>42'</b>	0,6767	0,6849	0,6930	0,7010	0,7089	0,7168	0,7247	0,7324	0,7401	0,7477	<b>18'</b>
<b>44'</b>	0,6770	0,6851	0,6932	0,7012	0,7092	0,7171	0,7249	0,7327	0,7404	0,7480	<b>16'</b>
<b>46'</b>	0,6773	0,6854	0,6935	0,7015	0,7095	0,7174	0,7252	0,7329	0,7406	0,7482	<b>14'</b>
<b>48'</b>	0,6776	0,6857	0,6938	0,7018	0,7097	0,7176	0,7254	0,7332	0,7409	0,7485	<b>12'</b>
<b>50'</b>	<b>0,6778</b>	<b>0,6860</b>	<b>0,6940</b>	<b>0,7020</b>	<b>0,7100</b>	<b>0,7179</b>	<b>0,7257</b>	<b>0,7335</b>	<b>0,7411</b>	<b>0,7487</b>	<b>10'</b>
<b>52'</b>	0,6781	0,6862	0,6943	0,7023	0,7103	0,7181	0,7260	0,7337	0,7414	0,7490	<b>8'</b>
<b>54'</b>	0,6784	0,6865	0,6946	0,7026	0,7105	0,7184	0,7262	0,7340	0,7416	0,7492	<b>6'</b>
<b>56'</b>	0,6786	0,6868	0,6948	0,7028	0,7108	0,7187	0,7265	0,7342	0,7419	0,7495	<b>4'</b>
<b>58'</b>	0,6789	0,6870	0,6951	0,7031	0,7110	0,7189	0,7267	0,7345	0,7422	0,7497	<b>2'</b>
<b>60'</b>	0,6792	0,6873	0,6954	0,7034	0,7113	0,7192	0,7270	0,7347	0,7424	0,7500	<b>0'</b>
	<b>249°</b>	<b>248°</b>	<b>247°</b>	<b>246°</b>	<b>245°</b>	<b>244°</b>	<b>243°</b>	<b>242°</b>	<b>241°</b>	<b>240°</b>	$180^\circ \leq \theta$

Usage:  $hv(244^\circ 20') = hv(115^\circ 40') = 0.7166$  denoted as 0,7166

$\theta \leq 180^\circ$	120°	121°	122°	123°	124°	125°	126°	127°	128°	129°	
0'	0,7500	0,7575	0,7650	0,7723	0,7796	0,7868	0,7939	0,8009	0,8078	0,8147	<b>60'</b>
2'	0,7503	0,7578	0,7652	0,7726	0,7798	0,7870	0,7941	0,8011	0,8081	0,8149	58'
4'	0,7505	0,7580	0,7655	0,7728	0,7801	0,7873	0,7944	0,8014	0,8083	0,8151	56'
6'	0,7508	0,7583	0,7657	0,7731	0,7803	0,7875	0,7946	0,8016	0,8085	0,8153	54'
8'	0,7510	0,7585	0,7659	0,7733	0,7806	0,7877	0,7948	0,8018	0,8087	0,8156	52'
<b>10'</b>	<b>0,7513</b>	<b>0,7588</b>	<b>0,7662</b>	<b>0,7735</b>	<b>0,7808</b>	<b>0,7880</b>	<b>0,7951</b>	<b>0,8021</b>	<b>0,8090</b>	<b>0,8158</b>	<b>50'</b>
12'	0,7515	0,7590	0,7664	0,7738	0,7810	0,7882	0,7953	0,8023	0,8092	0,8160	48'
14'	0,7518	0,7593	0,7667	0,7740	0,7813	0,7885	0,7955	0,8025	0,8094	0,8162	46'
16'	0,7520	0,7595	0,7669	0,7743	0,7815	0,7887	0,7958	0,8028	0,8097	0,8165	44'
18'	0,7523	0,7598	0,7672	0,7745	0,7818	0,7889	0,7960	0,8030	0,8099	0,8167	42'
<b>20'</b>	<b>0,7525</b>	<b>0,7600</b>	<b>0,7674</b>	<b>0,7748</b>	<b>0,7820</b>	<b>0,7892</b>	<b>0,7962</b>	<b>0,8032</b>	<b>0,8101</b>	<b>0,8169</b>	<b>40'</b>
22'	0,7528	0,7603	0,7677	0,7750	0,7822	0,7894	0,7965	0,8035	0,8103	0,8171	38'
24'	0,7530	0,7605	0,7679	0,7752	0,7825	0,7896	0,7967	0,8037	0,8106	0,8174	36'
26'	0,7533	0,7608	0,7682	0,7755	0,7827	0,7899	0,7969	0,8039	0,8108	0,8176	34'
28'	0,7535	0,7610	0,7684	0,7757	0,7830	0,7901	0,7972	0,8041	0,8110	0,8178	32'
<b>30'</b>	<b>0,7538</b>	<b>0,7612</b>	<b>0,7686</b>	<b>0,7760</b>	<b>0,7832</b>	<b>0,7904</b>	<b>0,7974</b>	<b>0,8044</b>	<b>0,8113</b>	<b>0,8180</b>	<b>30'</b>
32'	0,7540	0,7615	0,7689	0,7762	0,7834	0,7906	0,7976	0,8046	0,8115	0,8183	28'
34'	0,7543	0,7617	0,7691	0,7765	0,7837	0,7908	0,7979	0,8048	0,8117	0,8185	26'
36'	0,7545	0,7620	0,7694	0,7767	0,7839	0,7911	0,7981	0,8051	0,8119	0,8187	24'
38'	0,7548	0,7622	0,7696	0,7769	0,7842	0,7913	0,7983	0,8053	0,8122	0,8189	22'
<b>40'</b>	<b>0,7550</b>	<b>0,7625</b>	<b>0,7699</b>	<b>0,7772</b>	<b>0,7844</b>	<b>0,7915</b>	<b>0,7986</b>	<b>0,8055</b>	<b>0,8124</b>	<b>0,8192</b>	<b>20'</b>
42'	0,7553	0,7627	0,7701	0,7774	0,7846	0,7918	0,7988	0,8058	0,8126	0,8194	18'
44'	0,7555	0,7630	0,7704	0,7777	0,7849	0,7920	0,7990	0,8060	0,8128	0,8196	16'
46'	0,7558	0,7632	0,7706	0,7779	0,7851	0,7922	0,7993	0,8062	0,8131	0,8198	14'
48'	0,7560	0,7635	0,7709	0,7781	0,7854	0,7925	0,7995	0,8065	0,8133	0,8201	12'
<b>50'</b>	<b>0,7563</b>	<b>0,7637</b>	<b>0,7711</b>	<b>0,7784</b>	<b>0,7856</b>	<b>0,7927</b>	<b>0,7997</b>	<b>0,8067</b>	<b>0,8135</b>	<b>0,8203</b>	<b>10'</b>
52'	0,7565	0,7640	0,7713	0,7786	0,7858	0,7930	0,8000	0,8069	0,8138	0,8205	8'
54'	0,7568	0,7642	0,7716	0,7789	0,7861	0,7932	0,8002	0,8071	0,8140	0,8207	6'
56'	0,7570	0,7645	0,7718	0,7791	0,7863	0,7934	0,8004	0,8074	0,8142	0,8209	4'
58'	0,7573	0,7647	0,7721	0,7794	0,7865	0,7937	0,8007	0,8076	0,8144	0,8212	2'
<b>60'</b>	<b>0,7575</b>	<b>0,7650</b>	<b>0,7723</b>	<b>0,7796</b>	<b>0,7868</b>	<b>0,7939</b>	<b>0,8009</b>	<b>0,8078</b>	<b>0,8147</b>	<b>0,8214</b>	<b>0'</b>
	<b>239°</b>	<b>238°</b>	<b>237°</b>	<b>236°</b>	<b>235°</b>	<b>234°</b>	<b>233°</b>	<b>232°</b>	<b>231°</b>	<b>230°</b>	$180^\circ \leq \theta$

Usage:  $hv(237^\circ 52') = hv(122^\circ 08') = 0.7659$  denoted as 0,7659

$\theta \leq 180^\circ$	<b>130°</b>	<b>131°</b>	<b>132°</b>	<b>133°</b>	<b>134°</b>	<b>135°</b>	<b>136°</b>	<b>137°</b>	<b>138°</b>	<b>139°</b>	
<b>0'</b>	0,8214	0,8280	0,8346	0,8410	0,8473	0,8536	0,8597	0,8657	0,8716	0,8774	<b>60'</b>
<b>2'</b>	0,8216	0,8282	0,8348	0,8412	0,8475	0,8538	0,8599	0,8659	0,8718	0,8775	58'
<b>4'</b>	0,8218	0,8285	0,8350	0,8414	0,8477	0,8540	0,8601	0,8661	0,8720	0,8777	56'
<b>6'</b>	0,8221	0,8287	0,8352	0,8416	0,8480	0,8542	0,8603	0,8663	0,8722	0,8779	54'
<b>8'</b>	0,8223	0,8289	0,8354	0,8418	0,8482	0,8544	0,8605	0,8665	0,8723	0,8781	52'
<b>10'</b>	<b>0,8225</b>	<b>0,8291</b>	<b>0,8356</b>	<b>0,8421</b>	<b>0,8484</b>	<b>0,8546</b>	<b>0,8607</b>	<b>0,8667</b>	<b>0,8725</b>	<b>0,8783</b>	<b>50'</b>
<b>12'</b>	0,8227	0,8293	0,8359	0,8423	0,8486	0,8548	0,8609	0,8669	0,8727	0,8785	48'
<b>14'</b>	0,8230	0,8296	0,8361	0,8425	0,8488	0,8550	0,8611	0,8671	0,8729	0,8787	46'
<b>16'</b>	0,8232	0,8298	0,8363	0,8427	0,8490	0,8552	0,8613	0,8673	0,8731	0,8789	44'
<b>18'</b>	0,8234	0,8300	0,8365	0,8429	0,8492	0,8554	0,8615	0,8675	0,8733	0,8791	42'
<b>20'</b>	<b>0,8236</b>	<b>0,8302</b>	<b>0,8367</b>	<b>0,8431</b>	<b>0,8494</b>	<b>0,8556</b>	<b>0,8617</b>	<b>0,8677</b>	<b>0,8735</b>	<b>0,8793</b>	<b>40'</b>
<b>22'</b>	0,8238	0,8304	0,8369	0,8433	0,8496	0,8558	0,8619	0,8679	0,8737	0,8794	38'
<b>24'</b>	0,8241	0,8307	0,8372	0,8435	0,8498	0,8560	0,8621	0,8680	0,8739	0,8796	36'
<b>26'</b>	0,8243	0,8309	0,8374	0,8438	0,8500	0,8562	0,8623	0,8682	0,8741	0,8798	34'
<b>28'</b>	0,8245	0,8311	0,8376	0,8440	0,8502	0,8564	0,8625	0,8684	0,8743	0,8800	32'
<b>30'</b>	<b>0,8247</b>	<b>0,8313</b>	<b>0,8378</b>	<b>0,8442</b>	<b>0,8505</b>	<b>0,8566</b>	<b>0,8627</b>	<b>0,8686</b>	<b>0,8745</b>	<b>0,8802</b>	<b>30'</b>
<b>32'</b>	0,8249	0,8315	0,8380	0,8444	0,8507	0,8568	0,8629	0,8688	0,8747	0,8804	28'
<b>34'</b>	0,8252	0,8317	0,8382	0,8446	0,8509	0,8570	0,8631	0,8690	0,8749	0,8806	26'
<b>36'</b>	0,8254	0,8320	0,8384	0,8448	0,8511	0,8572	0,8633	0,8692	0,8751	0,8808	24'
<b>38'</b>	0,8256	0,8322	0,8387	0,8450	0,8513	0,8574	0,8635	0,8694	0,8752	0,8810	22'
<b>40'</b>	<b>0,8258</b>	<b>0,8324</b>	<b>0,8389</b>	<b>0,8452</b>	<b>0,8515</b>	<b>0,8576</b>	<b>0,8637</b>	<b>0,8696</b>	<b>0,8754</b>	<b>0,8811</b>	<b>20'</b>
<b>42'</b>	0,8260	0,8326	0,8391	0,8454	0,8517	0,8578	0,8639	0,8698	0,8756	0,8813	18'
<b>44'</b>	0,8263	0,8328	0,8393	0,8457	0,8519	0,8580	0,8641	0,8700	0,8758	0,8815	16'
<b>46'</b>	0,8265	0,8330	0,8395	0,8459	0,8521	0,8583	0,8643	0,8702	0,8760	0,8817	14'
<b>48'</b>	0,8267	0,8333	0,8397	0,8461	0,8523	0,8585	0,8645	0,8704	0,8762	0,8819	12'
<b>50'</b>	<b>0,8269</b>	<b>0,8335</b>	<b>0,8399</b>	<b>0,8463</b>	<b>0,8525</b>	<b>0,8587</b>	<b>0,8647</b>	<b>0,8706</b>	<b>0,8764</b>	<b>0,8821</b>	<b>10'</b>
<b>52'</b>	0,8272	0,8337	0,8401	0,8465	0,8527	0,8589	0,8649	0,8708	0,8766	0,8823	8'
<b>54'</b>	0,8274	0,8339	0,8404	0,8467	0,8529	0,8591	0,8651	0,8710	0,8768	0,8825	6'
<b>56'</b>	0,8276	0,8341	0,8406	0,8469	0,8531	0,8593	0,8653	0,8712	0,8770	0,8826	4'
<b>58'</b>	0,8278	0,8343	0,8408	0,8471	0,8533	0,8595	0,8655	0,8714	0,8772	0,8828	2'
<b>60'</b>	0,8280	0,8346	0,8410	0,8473	0,8536	0,8597	0,8657	0,8716	0,8774	0,8830	<b>0'</b>
	<b>229°</b>	<b>228°</b>	<b>227°</b>	<b>226°</b>	<b>225°</b>	<b>224°</b>	<b>223°</b>	<b>222°</b>	<b>221°</b>	<b>220°</b>	$180^\circ \leq \theta$

Usage:  $hv(223^\circ 18') = hv(136^\circ 42') = 0.8639$  denoted as 0,8639

$\theta \leq 180^\circ$	140°	141°	142°	143°	144°	145°	146°	147°	148°	149°	
0'	0,8830	0,8886	0,8940	0,8993	$\bar{1},0451$	$\bar{1},0958$	$\bar{1},1452$	$\bar{1},1934$	$\bar{1},2402$	$\bar{1},2858$	<b>60'</b>
2'	0,8832	0,8888	0,8942	0,8995	$\bar{1},0468$	$\bar{1},0974$	$\bar{1},1468$	$\bar{1},1949$	$\bar{1},2418$	$\bar{1},2873$	58'
4'	0,8834	0,8889	0,8944	0,8997	$\bar{1},0485$	$\bar{1},0991$	$\bar{1},1484$	$\bar{1},1965$	$\bar{1},2433$	$\bar{1},2888$	56'
6'	0,8836	0,8891	0,8945	0,8998	$\bar{1},0502$	$\bar{1},1008$	$\bar{1},1501$	$\bar{1},1981$	$\bar{1},2449$	$\bar{1},2903$	54'
8'	0,8838	0,8893	0,8947	$\bar{1},0002$	$\bar{1},0519$	$\bar{1},1024$	$\bar{1},1517$	$\bar{1},1997$	$\bar{1},2464$	$\bar{1},2918$	52'
<b>10'</b>	<b>0,8840</b>	<b>0,8895</b>	<b>0,8949</b>	<b><math>\bar{1},0019</math></b>	<b><math>\bar{1},0536</math></b>	<b><math>\bar{1},1041</math></b>	<b><math>\bar{1},1533</math></b>	<b><math>\bar{1},2013</math></b>	<b><math>\bar{1},2479</math></b>	<b><math>\bar{1},2933</math></b>	<b>50'</b>
12'	0,8841	0,8897	0,8951	$\bar{1},0037$	$\bar{1},0553$	$\bar{1},1057$	$\bar{1},1549$	$\bar{1},2028$	$\bar{1},2495$	$\bar{1},2948$	48'
14'	0,8843	0,8899	0,8953	$\bar{1},0054$	$\bar{1},0570$	$\bar{1},1074$	$\bar{1},1565$	$\bar{1},2044$	$\bar{1},2510$	$\bar{1},2963$	46'
16'	0,8845	0,8900	0,8954	$\bar{1},0071$	$\bar{1},0587$	$\bar{1},1091$	$\bar{1},1582$	$\bar{1},2060$	$\bar{1},2525$	$\bar{1},2978$	44'
18'	0,8847	0,8902	0,8956	$\bar{1},0089$	$\bar{1},0604$	$\bar{1},1107$	$\bar{1},1598$	$\bar{1},2076$	$\bar{1},2541$	$\bar{1},2993$	42'
<b>20'</b>	<b>0,8849</b>	<b>0,8904</b>	<b>0,8958</b>	<b><math>\bar{1},0106</math></b>	<b><math>\bar{1},0621</math></b>	<b><math>\bar{1},1124</math></b>	<b><math>\bar{1},1614</math></b>	<b><math>\bar{1},2091</math></b>	<b><math>\bar{1},2556</math></b>	<b><math>\bar{1},3007</math></b>	<b>40'</b>
22'	0,8851	0,8906	0,8960	$\bar{1},0124$	$\bar{1},0638$	$\bar{1},1140$	$\bar{1},1630$	$\bar{1},2107$	$\bar{1},2571$	$\bar{1},3022$	38'
24'	0,8853	0,8908	0,8961	$\bar{1},0141$	$\bar{1},0655$	$\bar{1},1157$	$\bar{1},1646$	$\bar{1},2123$	$\bar{1},2586$	$\bar{1},3037$	36'
26'	0,8854	0,8909	0,8963	$\bar{1},0158$	$\bar{1},0672$	$\bar{1},1173$	$\bar{1},1662$	$\bar{1},2138$	$\bar{1},2602$	$\bar{1},3052$	34'
28'	0,8856	0,8911	0,8965	$\bar{1},0176$	$\bar{1},0689$	$\bar{1},1190$	$\bar{1},1678$	$\bar{1},2154$	$\bar{1},2617$	$\bar{1},3067$	32'
<b>30'</b>	<b>0,8858</b>	<b>0,8913</b>	<b>0,8967</b>	<b><math>\bar{1},0193</math></b>	<b><math>\bar{1},0706</math></b>	<b><math>\bar{1},1206</math></b>	<b><math>\bar{1},1694</math></b>	<b><math>\bar{1},2170</math></b>	<b><math>\bar{1},2632</math></b>	<b><math>\bar{1},3081</math></b>	<b>30'</b>
32'	0,8860	0,8915	0,8969	$\bar{1},0210$	$\bar{1},0723$	$\bar{1},1223$	$\bar{1},1710$	$\bar{1},2185$	$\bar{1},2647$	$\bar{1},3096$	28'
34'	0,8862	0,8917	0,8970	$\bar{1},0227$	$\bar{1},0740$	$\bar{1},1239$	$\bar{1},1726$	$\bar{1},2201$	$\bar{1},2662$	$\bar{1},3111$	26'
36'	0,8864	0,8918	0,8972	$\bar{1},0245$	$\bar{1},0756$	$\bar{1},1256$	$\bar{1},1742$	$\bar{1},2216$	$\bar{1},2678$	$\bar{1},3126$	24'
38'	0,8866	0,8920	0,8974	$\bar{1},0262$	$\bar{1},0773$	$\bar{1},1272$	$\bar{1},1758$	$\bar{1},2232$	$\bar{1},2693$	$\bar{1},3140$	22'
<b>40'</b>	<b>0,8867</b>	<b>0,8922</b>	<b>0,8976</b>	<b><math>\bar{1},0279</math></b>	<b><math>\bar{1},0790</math></b>	<b><math>\bar{1},1289</math></b>	<b><math>\bar{1},1774</math></b>	<b><math>\bar{1},2248</math></b>	<b><math>\bar{1},2708</math></b>	<b><math>\bar{1},3155</math></b>	<b>20'</b>
42'	0,8869	0,8924	0,8977	$\bar{1},0296$	$\bar{1},0807$	$\bar{1},1305$	$\bar{1},1790$	$\bar{1},2263$	$\bar{1},2723$	$\bar{1},3170$	18'
44'	0,8871	0,8926	0,8979	$\bar{1},0314$	$\bar{1},0824$	$\bar{1},1321$	$\bar{1},1806$	$\bar{1},2279$	$\bar{1},2738$	$\bar{1},3184$	16'
46'	0,8873	0,8927	0,8981	$\bar{1},0331$	$\bar{1},0840$	$\bar{1},1338$	$\bar{1},1822$	$\bar{1},2294$	$\bar{1},2753$	$\bar{1},3199$	14'
48'	0,8875	0,8929	0,8983	$\bar{1},0348$	$\bar{1},0857$	$\bar{1},1354$	$\bar{1},1838$	$\bar{1},2310$	$\bar{1},2768$	$\bar{1},3214$	12'
<b>50'</b>	<b>0,8877</b>	<b>0,8931</b>	<b>0,8984</b>	<b><math>\bar{1},0365</math></b>	<b><math>\bar{1},0874</math></b>	<b><math>\bar{1},1370</math></b>	<b><math>\bar{1},1854</math></b>	<b><math>\bar{1},2325</math></b>	<b><math>\bar{1},2783</math></b>	<b><math>\bar{1},3228</math></b>	<b>10'</b>
52'	0,8878	0,8933	0,8986	$\bar{1},0382$	$\bar{1},0891$	$\bar{1},1387$	$\bar{1},1870$	$\bar{1},2341$	$\bar{1},2798$	$\bar{1},3243$	8'
54'	0,8880	0,8935	0,8988	$\bar{1},0399$	$\bar{1},0907$	$\bar{1},1403$	$\bar{1},1886$	$\bar{1},2356$	$\bar{1},2813$	$\bar{1},3258$	6'
56'	0,8882	0,8936	0,8990	$\bar{1},0417$	$\bar{1},0924$	$\bar{1},1419$	$\bar{1},1902$	$\bar{1},2372$	$\bar{1},2828$	$\bar{1},3272$	4'
58'	0,8884	0,8938	0,8991	$\bar{1},0434$	$\bar{1},0941$	$\bar{1},1436$	$\bar{1},1918$	$\bar{1},2387$	$\bar{1},2843$	$\bar{1},3287$	2'
<b>60'</b>	<b>0,8886</b>	<b>0,8940</b>	<b>0,8993</b>	<b><math>\bar{1},0451</math></b>	<b><math>\bar{1},0958</math></b>	<b><math>\bar{1},1452</math></b>	<b><math>\bar{1},1934</math></b>	<b><math>\bar{1},2402</math></b>	<b><math>\bar{1},2858</math></b>	<b><math>\bar{1},3301</math></b>	<b>0'</b>
	<b>219°</b>	<b>218°</b>	<b>217°</b>	<b>216°</b>	<b>215°</b>	<b>214°</b>	<b>213°</b>	<b>212°</b>	<b>211°</b>	<b>210°</b>	$180^\circ \leq \theta$

Usage:  $h\nu(216^\circ 52') = h\nu(143^\circ 08') = 0.90002$  denoted as  $\bar{1},0002$

$\theta \leq 180^\circ$	150°	151°	152°	153°	154°	155°	156°	157°	158°	159°	
0'	1,3301	1,3731	1,4147	1,4550	1,4940	1,5315	1,5677	1,6025	1,6359	1,6679	60'
2'	1,3316	1,3745	1,4161	1,4564	1,4952	1,5328	1,5689	1,6037	1,6370	1,6689	58'
4'	1,3330	1,3759	1,4175	1,4577	1,4965	1,5340	1,5701	1,6048	1,6381	1,6700	56'
6'	1,3345	1,3773	1,4188	1,4590	1,4978	1,5352	1,5713	1,6059	1,6392	1,6710	54'
8'	1,3359	1,3787	1,4202	1,4603	1,4991	1,5364	1,5724	1,6071	1,6403	1,6721	52'
10'	<b>1,3374</b>	<b>1,3801</b>	<b>1,4215</b>	<b>1,4616</b>	<b>1,5003</b>	<b>1,5377</b>	<b>1,5736</b>	<b>1,6082</b>	<b>1,6413</b>	<b>1,6731</b>	<b>50'</b>
12'	1,3388	1,3815	1,4229	1,4629	1,5016	1,5389	1,5748	1,6093	1,6424	1,6741	48'
14'	1,3403	1,3829	1,4243	1,4642	1,5029	1,5401	1,5760	1,6104	1,6435	1,6752	46'
16'	1,3417	1,3843	1,4256	1,4655	1,5041	1,5413	1,5771	1,6116	1,6446	1,6762	44'
18'	1,3432	1,3857	1,4270	1,4669	1,5054	1,5425	1,5783	1,6127	1,6457	1,6772	42'
20'	<b>1,3446</b>	<b>1,3871</b>	<b>1,4283</b>	<b>1,4682</b>	<b>1,5066</b>	<b>1,5438</b>	<b>1,5795</b>	<b>1,6138</b>	<b>1,6467</b>	<b>1,6782</b>	<b>40'</b>
22'	1,3460	1,3885	1,4297	1,4695	1,5079	1,5450	1,5806	1,6149	1,6478	1,6793	38'
24'	1,3475	1,3899	1,4310	1,4708	1,5092	1,5462	1,5818	1,6161	1,6489	1,6803	36'
26'	1,3489	1,3913	1,4324	1,4721	1,5104	1,5474	1,5830	1,6172	1,6500	1,6813	34'
28'	1,3503	1,3927	1,4337	1,4734	1,5117	1,5486	1,5841	1,6183	1,6510	1,6823	32'
30'	<b>1,3518</b>	<b>1,3941</b>	<b>1,4351</b>	<b>1,4747</b>	<b>1,5129</b>	<b>1,5498</b>	<b>1,5853</b>	<b>1,6194</b>	<b>1,6521</b>	<b>1,6834</b>	<b>30'</b>
32'	1,3532	1,3955	1,4364	1,4760	1,5142	1,5510	1,5865	1,6205	1,6532	1,6844	28'
34'	1,3546	1,3969	1,4377	1,4773	1,5154	1,5522	1,5876	1,6216	1,6542	1,6854	26'
36'	1,3561	1,3982	1,4391	1,4786	1,5167	1,5534	1,5888	1,6227	1,6553	1,6864	24'
38'	1,3575	1,3996	1,4404	1,4799	1,5179	1,5546	1,5899	1,6238	1,6563	1,6874	22'
40'	<b>1,3589</b>	<b>1,4010</b>	<b>1,4418</b>	<b>1,4811</b>	<b>1,5192</b>	<b>1,5558</b>	<b>1,5911</b>	<b>1,6249</b>	<b>1,6574</b>	<b>1,6884</b>	<b>20'</b>
42'	1,3603	1,4024	1,4431	1,4824	1,5204	1,5570	1,5922	1,6260	1,6585	1,6894	18'
44'	1,3618	1,4038	1,4444	1,4837	1,5217	1,5582	1,5934	1,6272	1,6595	1,6905	16'
46'	1,3632	1,4051	1,4458	1,4850	1,5229	1,5594	1,5945	1,6283	1,6606	1,6915	14'
48'	1,3646	1,4065	1,4471	1,4863	1,5241	1,5606	1,5957	1,6294	1,6616	1,6925	12'
50'	<b>1,3660</b>	<b>1,4079</b>	<b>1,4484</b>	<b>1,4876</b>	<b>1,5254</b>	<b>1,5618</b>	<b>1,5968</b>	<b>1,6305</b>	<b>1,6627</b>	<b>1,6935</b>	<b>10'</b>
52'	1,3674	1,4093	1,4497	1,4889	1,5266	1,5630	1,5980	1,6315	1,6637	1,6945	8'
54'	1,3689	1,4106	1,4511	1,4901	1,5278	1,5642	1,5991	1,6326	1,6648	1,6955	6'
56'	1,3703	1,4120	1,4524	1,4914	1,5291	1,5654	1,6002	1,6337	1,6658	1,6965	4'
58'	1,3717	1,4134	1,4537	1,4927	1,5303	1,5665	1,6014	1,6348	1,6669	1,6975	2'
60'	1,3731	1,4147	1,4550	1,4940	1,5315	1,5677	1,6025	1,6359	1,6679	1,6985	0'
	209°	208°	207°	206°	205°	204°	203°	202°	201°	200°	180° ≤ $\theta$

Usage:  $hv(200^\circ 02') = hv(159^\circ 58') = 0.96975$  denoted as  $\bar{1},6975$



$\theta \leq 180^\circ$	<b>160°</b>	<b>161°</b>	<b>162°</b>	<b>163°</b>	<b>164°</b>	<b>165°</b>	<b>166°</b>	<b>167°</b>	<b>168°</b>	<b>169°</b>	
<b>0'</b>	$\bar{1},6985$	$\bar{1},7276$	$\bar{1},7553$	$\bar{1},7815$	$\bar{1},8063$	$\bar{1},8296$	$\bar{1},8515$	$\bar{1},8719$	$\bar{1},8907$	$\bar{2},0814$	<b>60'</b>
<b>2'</b>	$\bar{1},6995$	$\bar{1},7285$	$\bar{1},7562$	$\bar{1},7824$	$\bar{1},8071$	$\bar{1},8304$	$\bar{1},8522$	$\bar{1},8725$	$\bar{1},8913$	$\bar{2},0869$	<b>58'</b>
<b>4'</b>	$\bar{1},7004$	$\bar{1},7295$	$\bar{1},7571$	$\bar{1},7832$	$\bar{1},8079$	$\bar{1},8311$	$\bar{1},8529$	$\bar{1},8732$	$\bar{1},8919$	$\bar{2},0924$	<b>56'</b>
<b>6'</b>	$\bar{1},7014$	$\bar{1},7304$	$\bar{1},7580$	$\bar{1},7841$	$\bar{1},8087$	$\bar{1},8319$	$\bar{1},8536$	$\bar{1},8738$	$\bar{1},8925$	$\bar{2},0979$	<b>54'</b>
<b>8'</b>	$\bar{1},7024$	$\bar{1},7314$	$\bar{1},7589$	$\bar{1},7849$	$\bar{1},8095$	$\bar{1},8326$	$\bar{1},8543$	$\bar{1},8745$	$\bar{1},8931$	$\bar{2},1034$	<b>52'</b>
<b>10'</b>	<b><math>\bar{1},7034</math></b>	<b><math>\bar{1},7323</math></b>	<b><math>\bar{1},7598</math></b>	<b><math>\bar{1},7858</math></b>	<b><math>\bar{1},8103</math></b>	<b><math>\bar{1},8334</math></b>	<b><math>\bar{1},8550</math></b>	<b><math>\bar{1},8751</math></b>	<b><math>\bar{1},8937</math></b>	<b><math>\bar{2},1089</math></b>	<b>50'</b>
<b>12'</b>	$\bar{1},7044$	$\bar{1},7332$	$\bar{1},7606$	$\bar{1},7866$	$\bar{1},8111$	$\bar{1},8341$	$\bar{1},8557$	$\bar{1},8757$	$\bar{1},8943$	$\bar{2},1144$	<b>48'</b>
<b>14'</b>	$\bar{1},7054$	$\bar{1},7342$	$\bar{1},7615$	$\bar{1},7874$	$\bar{1},8119$	$\bar{1},8349$	$\bar{1},8564$	$\bar{1},8764$	$\bar{1},8949$	$\bar{2},1198$	<b>46'</b>
<b>16'</b>	$\bar{1},7064$	$\bar{1},7351$	$\bar{1},7624$	$\bar{1},7883$	$\bar{1},8127$	$\bar{1},8356$	$\bar{1},8571$	$\bar{1},8770$	$\bar{1},8955$	$\bar{2},1252$	<b>44'</b>
<b>18'</b>	$\bar{1},7074$	$\bar{1},7361$	$\bar{1},7633$	$\bar{1},7891$	$\bar{1},8135$	$\bar{1},8363$	$\bar{1},8577$	$\bar{1},8777$	$\bar{1},8961$	$\bar{2},1306$	<b>42'</b>
<b>20'</b>	<b><math>\bar{1},7083</math></b>	<b><math>\bar{1},7370</math></b>	<b><math>\bar{1},7642</math></b>	<b><math>\bar{1},7899</math></b>	<b><math>\bar{1},8142</math></b>	<b><math>\bar{1},8371</math></b>	<b><math>\bar{1},8584</math></b>	<b><math>\bar{1},8783</math></b>	<b><math>\bar{1},8967</math></b>	<b><math>\bar{2},1360</math></b>	<b>40'</b>
<b>22'</b>	$\bar{1},7093$	$\bar{1},7379$	$\bar{1},7651$	$\bar{1},7908$	$\bar{1},8150$	$\bar{1},8378$	$\bar{1},8591$	$\bar{1},8789$	$\bar{1},8973$	$\bar{2},1414$	<b>38'</b>
<b>24'</b>	$\bar{1},7103$	$\bar{1},7388$	$\bar{1},7660$	$\bar{1},7916$	$\bar{1},8158$	$\bar{1},8385$	$\bar{1},8598$	$\bar{1},8796$	$\bar{1},8979$	$\bar{2},1468$	<b>36'</b>
<b>26'</b>	$\bar{1},7113$	$\bar{1},7398$	$\bar{1},7668$	$\bar{1},7924$	$\bar{1},8166$	$\bar{1},8393$	$\bar{1},8605$	$\bar{1},8802$	$\bar{1},8985$	$\bar{2},1521$	<b>34'</b>
<b>28'</b>	$\bar{1},7122$	$\bar{1},7407$	$\bar{1},7677$	$\bar{1},7933$	$\bar{1},8174$	$\bar{1},8400$	$\bar{1},8612$	$\bar{1},8808$	$\bar{1},8990$	$\bar{2},1574$	<b>32'</b>
<b>30'</b>	<b><math>\bar{1},7132</math></b>	<b><math>\bar{1},7416</math></b>	<b><math>\bar{1},7686</math></b>	<b><math>\bar{1},7941</math></b>	<b><math>\bar{1},8182</math></b>	<b><math>\bar{1},8407</math></b>	<b><math>\bar{1},8618</math></b>	<b><math>\bar{1},8815</math></b>	<b><math>\bar{1},8996</math></b>	<b><math>\bar{2},1627</math></b>	<b>30'</b>
<b>32'</b>	$\bar{1},7142$	$\bar{1},7425$	$\bar{1},7695$	$\bar{1},7949$	$\bar{1},8189$	$\bar{1},8415$	$\bar{1},8625$	$\bar{1},8821$	$\bar{2},0020$	$\bar{2},1680$	<b>28'</b>
<b>34'</b>	$\bar{1},7151$	$\bar{1},7435$	$\bar{1},7703$	$\bar{1},7957$	$\bar{1},8197$	$\bar{1},8422$	$\bar{1},8632$	$\bar{1},8827$	$\bar{2},0078$	$\bar{2},1733$	<b>26'</b>
<b>36'</b>	$\bar{1},7161$	$\bar{1},7444$	$\bar{1},7712$	$\bar{1},7966$	$\bar{1},8205$	$\bar{1},8429$	$\bar{1},8639$	$\bar{1},8834$	$\bar{2},0136$	$\bar{2},1786$	<b>24'</b>
<b>38'</b>	$\bar{1},7171$	$\bar{1},7453$	$\bar{1},7721$	$\bar{1},7974$	$\bar{1},8212$	$\bar{1},8436$	$\bar{1},8646$	$\bar{1},8840$	$\bar{2},0193$	$\bar{2},1838$	<b>22'</b>
<b>40'</b>	<b><math>\bar{1},7180</math></b>	<b><math>\bar{1},7462</math></b>	<b><math>\bar{1},7729</math></b>	<b><math>\bar{1},7982</math></b>	<b><math>\bar{1},8220</math></b>	<b><math>\bar{1},8444</math></b>	<b><math>\bar{1},8652</math></b>	<b><math>\bar{1},8846</math></b>	<b><math>\bar{2},0250</math></b>	<b><math>\bar{2},1890</math></b>	<b>20'</b>
<b>42'</b>	$\bar{1},7190$	$\bar{1},7471$	$\bar{1},7738$	$\bar{1},7990$	$\bar{1},8228$	$\bar{1},8451$	$\bar{1},8659$	$\bar{1},8852$	$\bar{2},0307$	$\bar{2},1943$	<b>18'</b>
<b>44'</b>	$\bar{1},7200$	$\bar{1},7480$	$\bar{1},7747$	$\bar{1},7998$	$\bar{1},8236$	$\bar{1},8458$	$\bar{1},8666$	$\bar{1},8858$	$\bar{2},0364$	$\bar{2},1994$	<b>16'</b>
<b>46'</b>	$\bar{1},7209$	$\bar{1},7490$	$\bar{1},7755$	$\bar{1},8007$	$\bar{1},8243$	$\bar{1},8465$	$\bar{1},8672$	$\bar{1},8865$	$\bar{2},0421$	$\bar{2},2046$	<b>14'</b>
<b>48'</b>	$\bar{1},7219$	$\bar{1},7499$	$\bar{1},7764$	$\bar{1},8015$	$\bar{1},8251$	$\bar{1},8472$	$\bar{1},8679$	$\bar{1},8871$	$\bar{2},0478$	$\bar{2},2098$	<b>12'</b>
<b>50'</b>	<b><math>\bar{1},7228</math></b>	<b><math>\bar{1},7508</math></b>	<b><math>\bar{1},7773</math></b>	<b><math>\bar{1},8023</math></b>	<b><math>\bar{1},8258</math></b>	<b><math>\bar{1},8479</math></b>	<b><math>\bar{1},8686</math></b>	<b><math>\bar{1},8877</math></b>	<b><math>\bar{2},0534</math></b>	<b><math>\bar{2},2149</math></b>	<b>10'</b>
<b>52'</b>	$\bar{1},7238$	$\bar{1},7517$	$\bar{1},7781$	$\bar{1},8031$	$\bar{1},8266$	$\bar{1},8487$	$\bar{1},8692$	$\bar{1},8883$	$\bar{2},0590$	$\bar{2},2200$	<b>8'</b>
<b>54'</b>	$\bar{1},7247$	$\bar{1},7526$	$\bar{1},7790$	$\bar{1},8039$	$\bar{1},8274$	$\bar{1},8494$	$\bar{1},8699$	$\bar{1},8889$	$\bar{2},0646$	$\bar{2},2252$	<b>6'</b>
<b>56'</b>	$\bar{1},7257$	$\bar{1},7535$	$\bar{1},7798$	$\bar{1},8047$	$\bar{1},8281$	$\bar{1},8501$	$\bar{1},8705$	$\bar{1},8895$	$\bar{2},0702$	$\bar{2},2303$	<b>4'</b>
<b>58'</b>	$\bar{1},7266$	$\bar{1},7544$	$\bar{1},7807$	$\bar{1},8055$	$\bar{1},8289$	$\bar{1},8508$	$\bar{1},8712$	$\bar{1},8901$	$\bar{2},0758$	$\bar{2},2353$	<b>2'</b>
<b>60'</b>	$\bar{1},7276$	$\bar{1},7553$	$\bar{1},7815$	$\bar{1},8063$	$\bar{1},8296$	$\bar{1},8515$	$\bar{1},8719$	$\bar{1},8907$	$\bar{2},0814$	$\bar{2},2404$	<b>0'</b>
	<b>199°</b>	<b>198°</b>	<b>197°</b>	<b>196°</b>	<b>195°</b>	<b>194°</b>	<b>193°</b>	<b>192°</b>	<b>191°</b>	<b>190°</b>	$180^\circ \leq \theta$

Usage:  $hv(191^\circ 26') = hv(168^\circ 34') = 0.990078$  denoted as  $\bar{2},0078$

$\theta \leq 180^\circ$	170°	171°	172°	173°	174°	175°	176°	177°	178°	179°	
0'	$\bar{2},2404$	$\bar{2},3844$	$\bar{2},5134$	$\bar{2},6273$	$\bar{2},7261$	$\bar{2},8097$	$\bar{2},8782$	$\bar{3},3148$	$\bar{3},6954$	$\bar{4},2385$	<b>60'</b>
2'	$\bar{2},2454$	$\bar{2},3890$	$\bar{2},5174$	$\bar{2},6308$	$\bar{2},7291$	$\bar{2},8123$	$\bar{2},8802$	$\bar{3},3299$	$\bar{3},7055$	$\bar{4},2884$	58'
4'	$\bar{2},2505$	$\bar{2},3935$	$\bar{2},5215$	$\bar{2},6344$	$\bar{2},7321$	$\bar{2},8148$	$\bar{2},8822$	$\bar{3},3449$	$\bar{3},7154$	$\bar{4},3366$	56'
6'	$\bar{2},2555$	$\bar{2},3980$	$\bar{2},5255$	$\bar{2},6379$	$\bar{2},7351$	$\bar{2},8173$	$\bar{2},8842$	$\bar{3},3597$	$\bar{3},7251$	$\bar{4},3832$	54'
8'	$\bar{2},2605$	$\bar{2},4025$	$\bar{2},5295$	$\bar{2},6414$	$\bar{2},7381$	$\bar{2},8197$	$\bar{2},8862$	$\bar{3},3743$	$\bar{3},7347$	$\bar{4},4280$	52'
<b>10'</b>	<b><math>\bar{2},2654</math></b>	<b><math>\bar{2},4070</math></b>	<b><math>\bar{2},5334</math></b>	<b><math>\bar{2},6448</math></b>	<b><math>\bar{2},7411</math></b>	<b><math>\bar{2},8222</math></b>	<b><math>\bar{2},8881</math></b>	<b><math>\bar{3},3888</math></b>	<b><math>\bar{3},7441</math></b>	<b><math>\bar{4},4712</math></b>	<b>50'</b>
12'	$\bar{2},2704$	$\bar{2},4114$	$\bar{2},5374$	$\bar{2},6483$	$\bar{2},7440$	$\bar{2},8246$	$\bar{2},8901$	$\bar{3},4031$	$\bar{3},7533$	$\bar{4},5126$	48'
14'	$\bar{2},2753$	$\bar{2},4159$	$\bar{2},5413$	$\bar{2},6517$	$\bar{2},7470$	$\bar{2},8271$	$\bar{2},8920$	$\bar{3},4172$	$\bar{3},7623$	$\bar{4},5524$	46'
16'	$\bar{2},2803$	$\bar{2},4203$	$\bar{2},5453$	$\bar{2},6551$	$\bar{2},7499$	$\bar{2},8295$	$\bar{2},8939$	$\bar{3},4312$	$\bar{3},7712$	$\bar{4},5905$	44'
18'	$\bar{2},2852$	$\bar{2},4247$	$\bar{2},5492$	$\bar{2},6585$	$\bar{2},7528$	$\bar{2},8319$	$\bar{2},8958$	$\bar{3},4449$	$\bar{3},7799$	$\bar{4},6268$	42'
<b>20'</b>	<b><math>\bar{2},2901</math></b>	<b><math>\bar{2},4291</math></b>	<b><math>\bar{2},5530</math></b>	<b><math>\bar{2},6619</math></b>	<b><math>\bar{2},7557</math></b>	<b><math>\bar{2},8342</math></b>	<b><math>\bar{2},8976</math></b>	<b><math>\bar{3},4586</math></b>	<b><math>\bar{3},7885</math></b>	<b><math>\bar{4},6615</math></b>	<b>40'</b>
22'	$\bar{2},2949$	$\bar{2},4335$	$\bar{2},5569$	$\bar{2},6653$	$\bar{2},7585$	$\bar{2},8366$	$\bar{2},8995$	$\bar{3},4720$	$\bar{3},7969$	$\bar{4},6945$	38'
24'	$\bar{2},2998$	$\bar{2},4378$	$\bar{2},5608$	$\bar{2},6686$	$\bar{2},7614$	$\bar{2},8389$	$\bar{3},0134$	$\bar{3},4853$	$\bar{3},8051$	$\bar{4},7258$	36'
26'	$\bar{2},3046$	$\bar{2},4422$	$\bar{2},5646$	$\bar{2},6720$	$\bar{2},7642$	$\bar{2},8413$	$\bar{3},0315$	$\bar{3},4984$	$\bar{3},8131$	$\bar{4},7555$	34'
28'	$\bar{2},3095$	$\bar{2},4465$	$\bar{2},5684$	$\bar{2},6753$	$\bar{2},7670$	$\bar{2},8436$	$\bar{3},0496$	$\bar{3},5113$	$\bar{3},8210$	$\bar{4},7834$	32'
<b>30'</b>	<b><math>\bar{2},3143</math></b>	<b><math>\bar{2},4508</math></b>	<b><math>\bar{2},5722</math></b>	<b><math>\bar{2},6786</math></b>	<b><math>\bar{2},7698</math></b>	<b><math>\bar{2},8459</math></b>	<b><math>\bar{3},0674</math></b>	<b><math>\bar{3},5241</math></b>	<b><math>\bar{3},8287</math></b>	<b><math>\bar{4},8096</math></b>	<b>30'</b>
32'	$\bar{2},3191$	$\bar{2},4551$	$\bar{2},5760$	$\bar{2},6819$	$\bar{2},7726$	$\bar{2},8481$	$\bar{3},0851$	$\bar{3},5367$	$\bar{3},8362$	$\bar{4},8342$	28'
34'	$\bar{2},3238$	$\bar{2},4594$	$\bar{2},5798$	$\bar{2},6851$	$\bar{2},7754$	$\bar{2},8504$	$\bar{3},1026$	$\bar{3},5491$	$\bar{3},8436$	$\bar{4},8570$	26'
36'	$\bar{2},3286$	$\bar{2},4636$	$\bar{2},5836$	$\bar{2},6884$	$\bar{2},7781$	$\bar{2},8526$	$\bar{3},1199$	$\bar{3},5614$	$\bar{3},8507$	$\bar{4},8782$	24'
38'	$\bar{2},3334$	$\bar{2},4679$	$\bar{2},5873$	$\bar{2},6916$	$\bar{2},7808$	$\bar{2},8549$	$\bar{3},1371$	$\bar{3},5735$	$\bar{3},8578$	$\bar{4},8976$	22'
<b>40'</b>	<b><math>\bar{2},3381</math></b>	<b><math>\bar{2},4721</math></b>	<b><math>\bar{2},5910</math></b>	<b><math>\bar{2},6948</math></b>	<b><math>\bar{2},7835</math></b>	<b><math>\bar{2},8571</math></b>	<b><math>\bar{3},1541</math></b>	<b><math>\bar{3},5854</math></b>	<b><math>\bar{3},8646</math></b>	<b><math>\bar{5},1538</math></b>	<b>20'</b>
42'	$\bar{2},3428$	$\bar{2},4763$	$\bar{2},5947$	$\bar{2},6980$	$\bar{2},7862$	$\bar{2},8593$	$\bar{3},1709$	$\bar{3},5972$	$\bar{3},8713$	$\bar{5},3146$	18'
44'	$\bar{2},3475$	$\bar{2},4805$	$\bar{2},5984$	$\bar{2},7012$	$\bar{2},7889$	$\bar{2},8614$	$\bar{3},1876$	$\bar{3},6088$	$\bar{3},8778$	$\bar{5},4585$	16'
46'	$\bar{2},3522$	$\bar{2},4847$	$\bar{2},6021$	$\bar{2},7044$	$\bar{2},7916$	$\bar{2},8636$	$\bar{3},2041$	$\bar{3},6202$	$\bar{3},8842$	$\bar{5},5854$	14'
48'	$\bar{2},3568$	$\bar{2},4888$	$\bar{2},6057$	$\bar{2},7075$	$\bar{2},7942$	$\bar{2},8657$	$\bar{3},2204$	$\bar{3},6315$	$\bar{3},8903$	$\bar{5},6954$	12'
<b>50'</b>	<b><math>\bar{2},3615</math></b>	<b><math>\bar{2},4930</math></b>	<b><math>\bar{2},6094</math></b>	<b><math>\bar{2},7107</math></b>	<b><math>\bar{2},7968</math></b>	<b><math>\bar{2},8678</math></b>	<b><math>\bar{3},2365</math></b>	<b><math>\bar{3},6425</math></b>	<b><math>\bar{3},8963</math></b>	<b><math>\bar{5},7885</math></b>	<b>10'</b>
52'	$\bar{2},3661$	$\bar{2},4971$	$\bar{2},6130$	$\bar{2},7138$	$\bar{2},7995$	$\bar{2},8700$	$\bar{3},2525$	$\bar{3},6535$	$\bar{4},0219$	$\bar{5},8646$	8'
54'	$\bar{2},3707$	$\bar{2},5012$	$\bar{2},6166$	$\bar{2},7169$	$\bar{2},8021$	$\bar{2},8720$	$\bar{3},2683$	$\bar{3},6642$	$\bar{4},0786$	$\bar{5},9238$	6'
56'	$\bar{2},3753$	$\bar{2},5053$	$\bar{2},6202$	$\bar{2},7200$	$\bar{2},8046$	$\bar{2},8741$	$\bar{3},2840$	$\bar{3},6748$	$\bar{4},1336$	$\bar{5},9662$	4'
58'	$\bar{2},3799$	$\bar{2},5093$	$\bar{2},6238$	$\bar{2},7230$	$\bar{2},8072$	$\bar{2},8762$	$\bar{3},2995$	$\bar{3},6852$	$\bar{4},1869$	$\bar{5},9915$	2'
<b>60'</b>	<b><math>\bar{2},3844</math></b>	<b><math>\bar{2},5134</math></b>	<b><math>\bar{2},6273</math></b>	<b><math>\bar{2},7261</math></b>	<b><math>\bar{2},8097</math></b>	<b><math>\bar{2},8782</math></b>	<b><math>\bar{3},3148</math></b>	<b><math>\bar{3},6954</math></b>	<b><math>\bar{4},2385</math></b>	<b>1,00</b>	<b>0'</b>
	<b>189°</b>	<b>188°</b>	<b>187°</b>	<b>186°</b>	<b>185°</b>	<b>184°</b>	<b>183°</b>	<b>182°</b>	<b>181°</b>	<b>180°</b>	$180^\circ \leq \theta$

Usage:  $hv(180^\circ 02') = hv(179^\circ 58') = 0.999999915$  denoted as  $\bar{5},9915$

$\theta \leq 180^\circ$	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	
0'	0.000	.0001	.0003	.0007	.0012	.0019	.0027	.0037	.0049	.0062	60'
2'	.0000	.0001	.0003	.0007	.0012	.0019	.0028	.0038	.0049	.0062	58'
4'	.0000	.0001	.0003	.0007	.0013	.0020	.0028	.0038	.0049	.0062	56'
6'	.0000	.0001	.0003	.0007	.0013	.0020	.0028	.0038	.0050	.0063	54'
8'	.0000	.0001	.0003	.0007	.0013	.0020	.0029	.0039	.0050	.0063	52'
10'	<b>.0000</b>	<b>.0001</b>	<b>.0004</b>	<b>.0008</b>	<b>.0013</b>	<b>.0020</b>	<b>.0029</b>	<b>.0039</b>	<b>.0051</b>	<b>.0064</b>	50'
12'	.0000	.0001	.0004	.0008	.0013	.0021	.0029	.0039	.0051	.0064	48'
14'	.0000	.0001	.0004	.0008	.0014	.0021	.0030	.0040	.0052	.0065	46'
16'	.0000	.0001	.0004	.0008	.0014	.0021	.0030	.0040	.0052	.0065	44'
18'	.0000	.0001	.0004	.0008	.0014	.0021	.0030	.0041	.0052	.0066	42'
20'	<b>.0000</b>	<b>.0001</b>	<b>.0004</b>	<b>.0008</b>	<b>.0014</b>	<b>.0022</b>	<b>.0031</b>	<b>.0041</b>	<b>.0053</b>	<b>.0066</b>	40'
22'	.0000	.0001	.0004	.0009	.0015	.0022	.0031	.0041	.0053	.0067	38'
24'	.0000	.0001	.0004	.0009	.0015	.0022	.0031	.0042	.0054	.0067	36'
26'	.0000	.0002	.0005	.0009	.0015	.0022	.0031	.0042	.0054	.0068	34'
28'	.0000	.0002	.0005	.0009	.0015	.0023	.0032	.0042	.0054	.0068	32'
30'	<b>.0000</b>	<b>.0002</b>	<b>.0005</b>	<b>.0009</b>	<b>.0015</b>	<b>.0023</b>	<b>.0032</b>	<b>.0043</b>	<b>.0055</b>	<b>.0069</b>	30'
32'	.0000	.0002	.0005	.0010	.0016	.0023	.0032	.0043	.0055	.0069	28'
34'	.0000	.0002	.0005	.0010	.0016	.0024	.0033	.0044	.0056	.0070	26'
36'	.0000	.0002	.0005	.0010	.0016	.0024	.0033	.0044	.0056	.0070	24'
38'	.0000	.0002	.0005	.0010	.0016	.0024	.0033	.0044	.0057	.0071	22'
40'	<b>.0000</b>	<b>.0002</b>	<b>.0005</b>	<b>.0010</b>	<b>.0017</b>	<b>.0024</b>	<b>.0034</b>	<b>.0045</b>	<b>.0057</b>	<b>.0071</b>	20'
42'	.0000	.0002	.0006	.0010	.0017	.0025	.0034	.0045	.0058	.0071	18'
44'	.0000	.0002	.0006	.0011	.0017	.0025	.0034	.0045	.0058	.0072	16'
46'	.0000	.0002	.0006	.0011	.0017	.0025	.0035	.0046	.0058	.0072	14'
48'	.0000	.0002	.0006	.0011	.0018	.0026	.0035	.0046	.0059	.0073	12'
50'	<b>.0001</b>	<b>.0003</b>	<b>.0006</b>	<b>.0011</b>	<b>.0018</b>	<b>.0026</b>	<b>.0036</b>	<b>.0047</b>	<b>.0059</b>	<b>.0073</b>	10'
52'	.0001	.0003	.0006	.0011	.0018	.0026	.0036	.0047	.0060	.0074	8'
54'	.0001	.0003	.0006	.0012	.0018	.0026	.0036	.0047	.0060	.0074	6'
56'	.0001	.0003	.0007	.0012	.0019	.0027	.0037	.0048	.0061	.0075	4'
58'	.0001	.0003	.0007	.0012	.0019	.0027	.0037	.0048	.0061	.0075	2'
60'	.0001	.0003	.0007	.0012	.0019	.0027	.0037	.0049	.0062	.0076	0'
	<b>359°</b>	<b>358°</b>	<b>357°</b>	<b>356°</b>	<b>355°</b>	<b>354°</b>	<b>353°</b>	<b>352°</b>	<b>351°</b>	<b>350°</b>	$180^\circ \leq \theta$
	89°	88°	87°	86°	85°	84°	83°	82°	81°	80°	Hc

Usage:  $h\nu(355^\circ 40') = h\nu(4^\circ 20') = 0.0014$ . Hc = 90° - ZD.

$\theta \leq 180^\circ$	$10^\circ$	$11^\circ$	$12^\circ$	$13^\circ$	$14^\circ$	$15^\circ$	$16^\circ$	$17^\circ$	$18^\circ$	$19^\circ$	
$0'$	.0076	.0092	.0109	.0128	.0149	.0170	.0194	.0218	.0245	.0272	$60'$
$2'$	.0076	.0092	.0110	.0129	.0149	.0171	.0194	.0219	.0246	.0273	$58'$
$4'$	.0077	.0093	.0110	.0129	.0150	.0172	.0195	.0220	.0247	.0274	$56'$
$6'$	.0077	.0094	.0111	.0130	.0151	.0173	.0196	.0221	.0247	.0275	$54'$
$8'$	.0078	.0094	.0112	.0131	.0151	.0173	.0197	.0222	.0248	.0276	$52'$
$10'$	<b>.0079</b>	<b>.0095</b>	<b>.0112</b>	<b>.0131</b>	<b>.0152</b>	<b>.0174</b>	<b>.0198</b>	<b>.0223</b>	<b>.0249</b>	<b>.0277</b>	$50'$
$12'$	.0079	.0095	.0113	.0132	.0153	.0175	.0199	.0224	.0250	.0278	$48'$
$14'$	.0080	.0096	.0114	.0133	.0153	.0176	.0199	.0224	.0251	.0279	$46'$
$16'$	.0080	.0096	.0114	.0133	.0154	.0176	.0200	.0225	.0252	.0280	$44'$
$18'$	.0081	.0097	.0115	.0134	.0155	.0177	.0201	.0226	.0253	.0281	$42'$
$20'$	<b>.0081</b>	<b>.0097</b>	<b>.0115</b>	<b>.0135</b>	<b>.0156</b>	<b>.0178</b>	<b>.0202</b>	<b>.0227</b>	<b>.0254</b>	<b>.0282</b>	$40'$
$22'$	.0082	.0098	.0116	.0135	.0156	.0179	.0203	.0228	.0255	.0283	$38'$
$24'$	.0082	.0099	.0117	.0136	.0157	.0180	.0203	.0229	.0256	.0284	$36'$
$26'$	.0083	.0099	.0117	.0137	.0158	.0180	.0204	.0230	.0257	.0285	$34'$
$28'$	.0083	.0100	.0118	.0137	.0159	.0181	.0205	.0231	.0257	.0286	$32'$
$30'$	<b>.0084</b>	<b>.0100</b>	<b>.0119</b>	<b>.0138</b>	<b>.0159</b>	<b>.0182</b>	<b>.0206</b>	<b>.0231</b>	<b>.0258</b>	<b>.0287</b>	$30'$
$32'$	.0084	.0101	.0119	.0139	.0160	.0183	.0207	.0232	.0259	.0288	$28'$
$34'$	.0085	.0102	.0120	.0140	.0161	.0183	.0208	.0233	.0260	.0289	$26'$
$36'$	.0085	.0102	.0120	.0140	.0161	.0184	.0208	.0234	.0261	.0290	$24'$
$38'$	.0086	.0103	.0121	.0141	.0162	.0185	.0209	.0235	.0262	.0291	$22'$
$40'$	<b>.0086</b>	<b>.0103</b>	<b>.0122</b>	<b>.0142</b>	<b>.0163</b>	<b>.0186</b>	<b>.0210</b>	<b>.0236</b>	<b>.0263</b>	<b>.0292</b>	$20'$
$42'$	.0087	.0104	.0122	.0142	.0164	.0187	.0211	.0237	.0264	.0293	$18'$
$44'$	.0087	.0104	.0123	.0143	.0164	.0187	.0212	.0238	.0265	.0294	$16'$
$46'$	.0088	.0105	.0124	.0144	.0165	.0188	.0213	.0238	.0266	.0295	$14'$
$48'$	.0089	.0106	.0124	.0144	.0166	.0189	.0213	.0239	.0267	.0296	$12'$
$50'$	<b>.0089</b>	<b>.0106</b>	<b>.0125</b>	<b>.0145</b>	<b>.0167</b>	<b>.0190</b>	<b>.0214</b>	<b>.0240</b>	<b>.0268</b>	<b>.0297</b>	$10'$
$52'$	.0090	.0107	.0126	.0146	.0167	.0190	.0215	.0241	.0269	.0298	$8'$
$54'$	.0090	.0107	.0126	.0146	.0168	.0191	.0216	.0242	.0270	.0299	$6'$
$56'$	.0091	.0108	.0127	.0147	.0169	.0192	.0217	.0243	.0271	.0300	$4'$
$58'$	.0091	.0109	.0127	.0148	.0170	.0193	.0218	.0244	.0271	.0301	$2'$
$60'$	.0092	.0109	.0128	.0149	.0170	.0194	.0218	.0245	.0272	.0302	$0'$
	<b><math>349^\circ</math></b>	<b><math>348^\circ</math></b>	<b><math>347^\circ</math></b>	<b><math>346^\circ</math></b>	<b><math>345^\circ</math></b>	<b><math>344^\circ</math></b>	<b><math>343^\circ</math></b>	<b><math>342^\circ</math></b>	<b><math>341^\circ</math></b>	<b><math>340^\circ</math></b>	$180^\circ \leq \theta$
	$79^\circ$	$78^\circ$	$77^\circ$	$76^\circ$	$75^\circ$	$74^\circ$	$73^\circ$	$72^\circ$	$71^\circ$	$70^\circ$	Hc

Usage:  $hv(340^\circ 18') = hv(19^\circ 42') = 0.0293$ . Hc =  $90^\circ$  - ZD.

$\theta \leq 180^\circ$	<b>20°</b>	<b>21°</b>	<b>22°</b>	<b>23°</b>	<b>24°</b>	<b>25°</b>	<b>26°</b>	<b>27°</b>	<b>28°</b>	<b>29°</b>	
<b>0'</b>	.0302	.0332	.0364	.0397	.0432	.0468	.0506	.0545	.0585	.0627	<b>60'</b>
<b>2'</b>	.0303	.0333	.0365	.0399	.0433	.0470	.0507	.0546	.0587	.0628	<b>58'</b>
<b>4'</b>	.0304	.0334	.0366	.0400	.0435	.0471	.0509	.0548	.0588	.0630	<b>56'</b>
<b>6'</b>	.0305	.0335	.0367	.0401	.0436	.0472	.0510	.0549	.0589	.0631	<b>54'</b>
<b>8'</b>	.0306	.0336	.0368	.0402	.0437	.0473	.0511	.0550	.0591	.0633	<b>52'</b>
<b>10'</b>	<b>.0307</b>	<b>.0337</b>	<b>.0370</b>	<b>.0403</b>	<b>.0438</b>	<b>.0475</b>	<b>.0512</b>	<b>.0552</b>	<b>.0592</b>	<b>.0634</b>	<b>50'</b>
<b>12'</b>	.0308	.0338	.0371	.0404	.0439	.0476	.0514	.0553	.0593	.0635	<b>48'</b>
<b>14'</b>	.0309	.0339	.0372	.0405	.0441	.0477	.0515	.0554	.0595	.0637	<b>46'</b>
<b>16'</b>	.0310	.0340	.0373	.0407	.0442	.0478	.0516	.0556	.0596	.0638	<b>44'</b>
<b>18'</b>	.0311	.0342	.0374	.0408	.0443	.0480	.0518	.0557	.0598	.0640	<b>42'</b>
<b>20'</b>	<b>.0312</b>	<b>.0343</b>	<b>.0375</b>	<b>.0409</b>	<b>.0444</b>	<b>.0481</b>	<b>.0519</b>	<b>.0558</b>	<b>.0599</b>	<b>.0641</b>	<b>40'</b>
<b>22'</b>	.0313	.0344	.0376	.0410	.0445	.0482	.0520	.0560	.0600	.0643	<b>38'</b>
<b>24'</b>	.0314	.0345	.0377	.0411	.0447	.0483	.0521	.0561	.0602	.0644	<b>36'</b>
<b>26'</b>	.0315	.0346	.0378	.0412	.0448	.0485	.0523	.0562	.0603	.0645	<b>34'</b>
<b>28'</b>	.0316	.0347	.0379	.0414	.0449	.0486	.0524	.0564	.0605	.0647	<b>32'</b>
<b>30'</b>	<b>.0317</b>	<b>.0348</b>	<b>.0381</b>	<b>.0415</b>	<b>.0450</b>	<b>.0487</b>	<b>.0525</b>	<b>.0565</b>	<b>.0606</b>	<b>.0648</b>	<b>30'</b>
<b>32'</b>	.0318	.0349	.0382	.0416	.0451	.0488	.0527	.0566	.0607	.0650	<b>28'</b>
<b>34'</b>	.0319	.0350	.0383	.0417	.0453	.0490	.0528	.0568	.0609	.0651	<b>26'</b>
<b>36'</b>	.0320	.0351	.0384	.0418	.0454	.0491	.0529	.0569	.0610	.0653	<b>24'</b>
<b>38'</b>	.0321	.0352	.0385	.0419	.0455	.0492	.0531	.0570	.0611	.0654	<b>22'</b>
<b>40'</b>	<b>.0322</b>	<b>.0353</b>	<b>.0386</b>	<b>.0421</b>	<b>.0456</b>	<b>.0493</b>	<b>.0532</b>	<b>.0572</b>	<b>.0613</b>	<b>.0655</b>	<b>20'</b>
<b>42'</b>	.0323	.0354	.0387	.0422	.0457	.0495	.0533	.0573	.0614	.0657	<b>18'</b>
<b>44'</b>	.0324	.0355	.0388	.0423	.0459	.0496	.0534	.0574	.0616	.0658	<b>16'</b>
<b>46'</b>	.0325	.0356	.0390	.0424	.0460	.0497	.0536	.0576	.0617	.0660	<b>14'</b>
<b>48'</b>	.0326	.0358	.0391	.0425	.0461	.0498	.0537	.0577	.0618	.0661	<b>12'</b>
<b>50'</b>	<b>.0327</b>	<b>.0359</b>	<b>.0392</b>	<b>.0426</b>	<b>.0462</b>	<b>.0500</b>	<b>.0538</b>	<b>.0578</b>	<b>.0620</b>	<b>.0663</b>	<b>10'</b>
<b>52'</b>	.0328	.0360	.0393	.0428	.0464	.0501	.0540	.0580	.0621	.0664	<b>8'</b>
<b>54'</b>	.0329	.0361	.0394	.0429	.0465	.0502	.0541	.0581	.0623	.0666	<b>6'</b>
<b>56'</b>	.0330	.0362	.0395	.0430	.0466	.0503	.0542	.0583	.0624	.0667	<b>4'</b>
<b>58'</b>	.0331	.0363	.0396	.0431	.0467	.0505	.0544	.0584	.0625	.0668	<b>2'</b>
<b>60'</b>	.0332	.0364	.0397	.0432	.0468	.0506	.0545	.0585	.0627	.0670	<b>0'</b>
	<b>339°</b>	<b>338°</b>	<b>337°</b>	<b>336°</b>	<b>335°</b>	<b>334°</b>	<b>333°</b>	<b>332°</b>	<b>331°</b>	<b>330°</b>	$180^\circ \leq \theta$
	<i>69°</i>	<i>68°</i>	<i>67°</i>	<i>66°</i>	<i>65°</i>	<i>64°</i>	<i>63°</i>	<i>62°</i>	<i>61°</i>	<i>60°</i>	<i>Hc</i>

Usage:  $h\nu(333^\circ 56') = h\nu(26^\circ 04') = 0.0509$ .  $Hc = 90^\circ - ZD$ .

$\theta \leq 180^\circ$	<b>30°</b>	<b>31°</b>	<b>32°</b>	<b>33°</b>	<b>34°</b>	<b>35°</b>	<b>36°</b>	<b>37°</b>	<b>38°</b>	<b>39°</b>	
0'	.0670	.0714	.0760	.0807	.0855	.0904	.0955	.1007	.1060	.1114	<b>60'</b>
2'	.0671	.0716	.0761	.0808	.0856	.0906	.0957	.1009	.1062	.1116	<b>58'</b>
4'	.0673	.0717	.0763	.0810	.0858	.0908	.0958	.1010	.1064	.1118	<b>56'</b>
6'	.0674	.0719	.0764	.0811	.0860	.0909	.0960	.1012	.1065	.1120	<b>54'</b>
8'	.0676	.0720	.0766	.0813	.0861	.0911	.0962	.1014	.1067	.1122	<b>52'</b>
10'	<b>.0677</b>	<b>.0722</b>	<b>.0767</b>	<b>.0815</b>	<b>.0863</b>	<b>.0913</b>	<b>.0963</b>	<b>.1016</b>	<b>.1069</b>	<b>.1123</b>	<b>50'</b>
12'	.0679	.0723	.0769	.0816	.0865	.0914	.0965	.1017	.1071	.1125	<b>48'</b>
14'	.0680	.0725	.0771	.0818	.0866	.0916	.0967	.1019	.1073	.1127	<b>46'</b>
16'	.0682	.0726	.0772	.0819	.0868	.0918	.0969	.1021	.1074	.1129	<b>44'</b>
18'	.0683	.0728	.0774	.0821	.0870	.0919	.0970	.1023	.1076	.1131	<b>42'</b>
20'	<b>.0684</b>	<b>.0729</b>	<b>.0775</b>	<b>.0823</b>	<b>.0871</b>	<b>.0921</b>	<b>.0972</b>	<b>.1024</b>	<b>.1078</b>	<b>.1133</b>	<b>40'</b>
22'	.0686	.0731	.0777	.0824	.0873	.0923	.0974	.1026	.1080	.1134	<b>38'</b>
24'	.0687	.0732	.0778	.0826	.0874	.0924	.0976	.1028	.1082	.1136	<b>36'</b>
26'	.0689	.0734	.0780	.0827	.0876	.0926	.0977	.1030	.1083	.1138	<b>34'</b>
28'	.0690	.0735	.0781	.0829	.0878	.0928	.0979	.1031	.1085	.1140	<b>32'</b>
30'	<b>.0692</b>	<b>.0737</b>	<b>.0783</b>	<b>.0831</b>	<b>.0879</b>	<b>.0929</b>	<b>.0981</b>	<b>.1033</b>	<b>.1087</b>	<b>.1142</b>	<b>30'</b>
32'	.0693	.0738	.0785	.0832	.0881	.0931	.0982	.1035	.1089	.1144	<b>28'</b>
34'	.0695	.0740	.0786	.0834	.0883	.0933	.0984	.1037	.1091	.1146	<b>26'</b>
36'	.0696	.0741	.0788	.0835	.0884	.0934	.0986	.1039	.1092	.1147	<b>24'</b>
38'	.0698	.0743	.0789	.0837	.0886	.0936	.0988	.1040	.1094	.1149	<b>22'</b>
40'	<b>.0699</b>	<b>.0744</b>	<b>.0791</b>	<b>.0839</b>	<b>.0888</b>	<b>.0938</b>	<b>.0989</b>	<b>.1042</b>	<b>.1096</b>	<b>.1151</b>	<b>20'</b>
42'	.0701	.0746	.0792	.0840	.0889	.0940	.0991	.1044	.1098	.1153	<b>18'</b>
44'	.0702	.0747	.0794	.0842	.0891	.0941	.0993	.1046	.1100	.1155	<b>16'</b>
46'	.0704	.0749	.0796	.0843	.0893	.0943	.0995	.1047	.1101	.1157	<b>14'</b>
48'	.0705	.0751	.0797	.0845	.0894	.0945	.0996	.1049	.1103	.1159	<b>12'</b>
50'	<b>.0707</b>	<b>.0752</b>	<b>.0799</b>	<b>.0847</b>	<b>.0896</b>	<b>.0946</b>	<b>.0998</b>	<b>.1051</b>	<b>.1105</b>	<b>.1160</b>	<b>10'</b>
52'	.0708	.0754	.0800	.0848	.0898	.0948	.1000	.1053	.1107	.1162	<b>8'</b>
54'	.0710	.0755	.0802	.0850	.0899	.0950	.1002	.1055	.1109	.1164	<b>6'</b>
56'	.0711	.0757	.0803	.0852	.0901	.0951	.1003	.1056	.1111	.1166	<b>4'</b>
58'	.0713	.0758	.0805	.0853	.0903	.0953	.1005	.1058	.1112	.1168	<b>2'</b>
60'	.0714	.0760	.0807	.0855	.0904	.0955	.1007	.1060	.1114	.1170	<b>0'</b>
	<b>329°</b>	<b>328°</b>	<b>327°</b>	<b>326°</b>	<b>325°</b>	<b>324°</b>	<b>323°</b>	<b>322°</b>	<b>321°</b>	<b>320°</b>	$180^\circ \leq \theta$
	<i>59°</i>	<i>58°</i>	<i>57°</i>	<i>56°</i>	<i>55°</i>	<i>54°</i>	<i>53°</i>	<i>52°</i>	<i>51°</i>	<i>50°</i>	<i>Hc</i>

Usage:  $hv(329^\circ 38') = hv(30^\circ 22') = 0.0686$ .  $Hc = 90^\circ - ZD$ .

$\theta \leq 180^\circ$	$40^\circ$	$41^\circ$	$42^\circ$	$43^\circ$	$44^\circ$	$45^\circ$	$46^\circ$	$47^\circ$	$48^\circ$	$49^\circ$	
$0'$	.1170	.1226	.1284	.1343	.1403	.1464	.1527	.1590	.1654	.1720	$60'$
$2'$	.1172	.1228	.1286	.1345	.1405	.1467	.1529	.1592	.1657	.1722	$58'$
$4'$	.1174	.1230	.1288	.1347	.1407	.1469	.1531	.1594	.1659	.1724	$56'$
$6'$	.1175	.1232	.1290	.1349	.1409	.1471	.1533	.1596	.1661	.1726	$54'$
$8'$	.1177	.1234	.1292	.1351	.1411	.1473	.1535	.1599	.1663	.1728	$52'$
$10'$	<b>.1179</b>	<b>.1236</b>	<b>.1294</b>	<b>.1353</b>	<b>.1413</b>	<b>.1475</b>	<b>.1537</b>	<b>.1601</b>	<b>.1665</b>	<b>.1731</b>	$50'$
$12'$	.1181	.1238	.1296	.1355	.1415	.1477	.1539	.1603	.1667	.1733	$48'$
$14'$	.1183	.1240	.1298	.1357	.1417	.1479	.1541	.1605	.1670	.1735	$46'$
$16'$	.1185	.1242	.1300	.1359	.1420	.1481	.1543	.1607	.1672	.1737	$44'$
$18'$	.1187	.1244	.1302	.1361	.1422	.1483	.1546	.1609	.1674	.1740	$42'$
$20'$	<b>.1189</b>	<b>.1246</b>	<b>.1304</b>	<b>.1363</b>	<b>.1424</b>	<b>.1485</b>	<b>.1548</b>	<b>.1611</b>	<b>.1676</b>	<b>.1742</b>	$40'$
$22'$	.1190	.1248	.1306	.1365	.1426	.1487	.1550	.1613	.1678	.1744	$38'$
$24'$	.1192	.1249	.1308	.1367	.1428	.1489	.1552	.1616	.1680	.1746	$36'$
$26'$	.1194	.1251	.1310	.1369	.1430	.1491	.1554	.1618	.1683	.1748	$34'$
$28'$	.1196	.1253	.1312	.1371	.1432	.1493	.1556	.1620	.1685	.1751	$32'$
$30'$	<b>.1198</b>	<b>.1255</b>	<b>.1314</b>	<b>.1373</b>	<b>.1434</b>	<b>.1495</b>	<b>.1558</b>	<b>.1622</b>	<b>.1687</b>	<b>.1753</b>	$30'$
$32'$	.1200	.1257	.1316	.1375	.1436	.1498	.1560	.1624	.1689	.1755	$28'$
$34'$	.1202	.1259	.1318	.1377	.1438	.1500	.1562	.1626	.1691	.1757	$26'$
$36'$	.1204	.1261	.1320	.1379	.1440	.1502	.1565	.1628	.1693	.1759	$24'$
$38'$	.1206	.1263	.1321	.1381	.1442	.1504	.1567	.1631	.1696	.1762	$22'$
$40'$	<b>.1207</b>	<b>.1265</b>	<b>.1323</b>	<b>.1383</b>	<b>.1444</b>	<b>.1506</b>	<b>.1569</b>	<b>.1633</b>	<b>.1698</b>	<b>.1764</b>	$20'$
$42'$	.1209	.1267	.1325	.1385	.1446	.1508	.1571	.1635	.1700	.1766	$18'$
$44'$	.1211	.1269	.1327	.1387	.1448	.1510	.1573	.1637	.1702	.1768	$16'$
$46'$	.1213	.1271	.1329	.1389	.1450	.1512	.1575	.1639	.1704	.1770	$14'$
$48'$	.1215	.1273	.1331	.1391	.1452	.1514	.1577	.1641	.1707	.1773	$12'$
$50'$	<b>.1217</b>	<b>.1275</b>	<b>.1333</b>	<b>.1393</b>	<b>.1454</b>	<b>.1516</b>	<b>.1579</b>	<b>.1644</b>	<b>.1709</b>	<b>.1775</b>	$10'$
$52'$	.1219	.1277	.1335	.1395	.1456	.1518	.1582	.1646	.1711	.1777	$8'$
$54'$	.1221	.1278	.1337	.1397	.1458	.1520	.1584	.1648	.1713	.1779	$6'$
$56'$	.1223	.1280	.1339	.1399	.1460	.1523	.1586	.1650	.1715	.1782	$4'$
$58'$	.1225	.1282	.1341	.1401	.1462	.1525	.1588	.1652	.1718	.1784	$2'$
$60'$	.1226	.1284	.1343	.1403	.1464	.1527	.1590	.1654	.1720	.1786	$0'$
	<b><math>319^\circ</math></b>	<b><math>318^\circ</math></b>	<b><math>317^\circ</math></b>	<b><math>316^\circ</math></b>	<b><math>315^\circ</math></b>	<b><math>314^\circ</math></b>	<b><math>313^\circ</math></b>	<b><math>312^\circ</math></b>	<b><math>311^\circ</math></b>	<b><math>310^\circ</math></b>	$180^\circ \leq \theta$
	$49^\circ$	$48^\circ$	$47^\circ$	$46^\circ$	$45^\circ$	$44^\circ$	$43^\circ$	$42^\circ$	$41^\circ$	$40^\circ$	<i>Hc</i>

Usage:  $hv(316^\circ 44') = hv(43^\circ 16') = 0.1359$ .  $Hc = 90^\circ - ZD$ .

$\theta \leq 180^\circ$	<b>50°</b>	<b>51°</b>	<b>52°</b>	<b>53°</b>	<b>54°</b>	<b>55°</b>	<b>56°</b>	<b>57°</b>	<b>58°</b>	<b>59°</b>	
<b>0'</b>	.1786	.1853	.1922	.1991	.2061	.2132	.2204	.2277	.2350	.2425	<b>60'</b>
<b>2'</b>	.1788	.1856	.1924	.1993	.2063	.2135	.2206	.2279	.2353	.2427	<b>58'</b>
<b>4'</b>	.1791	.1858	.1926	.1996	.2066	.2137	.2209	.2282	.2355	.2430	<b>56'</b>
<b>6'</b>	.1793	.1860	.1929	.1998	.2068	.2139	.2211	.2284	.2358	.2432	<b>54'</b>
<b>8'</b>	.1795	.1862	.1931	.2000	.2070	.2142	.2214	.2287	.2360	.2435	<b>52'</b>
<b>10'</b>	<b>.1797</b>	<b>.1865</b>	<b>.1933</b>	<b>.2003</b>	<b>.2073</b>	<b>.2144</b>	<b>.2216</b>	<b>.2289</b>	<b>.2363</b>	<b>.2437</b>	<b>50'</b>
<b>12'</b>	.1799	.1867	.1935	.2005	.2075	.2146	.2219	.2291	.2365	.2440	<b>48'</b>
<b>14'</b>	.1802	.1869	.1938	.2007	.2078	.2149	.2221	.2294	.2368	.2442	<b>46'</b>
<b>16'</b>	.1804	.1872	.1940	.2010	.2080	.2151	.2223	.2296	.2370	.2445	<b>44'</b>
<b>18'</b>	.1806	.1874	.1942	.2012	.2082	.2154	.2226	.2299	.2373	.2447	<b>42'</b>
<b>20'</b>	<b>.1808</b>	<b>.1876</b>	<b>.1945</b>	<b>.2014</b>	<b>.2085</b>	<b>.2156</b>	<b>.2228</b>	<b>.2301</b>	<b>.2375</b>	<b>.2450</b>	<b>40'</b>
<b>22'</b>	.1811	.1878	.1947	.2017	.2087	.2158	.2231	.2304	.2378	.2452	<b>38'</b>
<b>24'</b>	.1813	.1881	.1949	.2019	.2089	.2161	.2233	.2306	.2380	.2455	<b>36'</b>
<b>26'</b>	.1815	.1883	.1952	.2021	.2092	.2163	.2235	.2309	.2383	.2457	<b>34'</b>
<b>28'</b>	.1817	.1885	.1954	.2024	.2094	.2166	.2238	.2311	.2385	.2460	<b>32'</b>
<b>30'</b>	<b>.1820</b>	<b>.1887</b>	<b>.1956</b>	<b>.2026</b>	<b>.2096</b>	<b>.2168</b>	<b>.2240</b>	<b>.2314</b>	<b>.2388</b>	<b>.2462</b>	<b>30'</b>
<b>32'</b>	.1822	.1890	.1959	.2028	.2099	.2170	.2243	.2316	.2390	.2465	<b>28'</b>
<b>34'</b>	.1824	.1892	.1961	.2031	.2101	.2173	.2245	.2318	.2392	.2467	<b>26'</b>
<b>36'</b>	.1826	.1894	.1963	.2033	.2104	.2175	.2248	.2321	.2395	.2470	<b>24'</b>
<b>38'</b>	.1829	.1897	.1965	.2035	.2106	.2178	.2250	.2323	.2397	.2472	<b>22'</b>
<b>40'</b>	<b>.1831</b>	<b>.1899</b>	<b>.1968</b>	<b>.2038</b>	<b>.2108</b>	<b>.2180</b>	<b>.2252</b>	<b>.2326</b>	<b>.2400</b>	<b>.2475</b>	<b>20'</b>
<b>42'</b>	.1833	.1901	.1970	.2040	.2111	.2182	.2255	.2328	.2402	.2477	<b>18'</b>
<b>44'</b>	.1835	.1903	.1972	.2042	.2113	.2185	.2257	.2331	.2405	.2480	<b>16'</b>
<b>46'</b>	.1838	.1906	.1975	.2045	.2115	.2187	.2260	.2333	.2407	.2482	<b>14'</b>
<b>48'</b>	.1840	.1908	.1977	.2047	.2118	.2190	.2262	.2336	.2410	.2485	<b>12'</b>
<b>50'</b>	<b>.1842</b>	<b>.1910</b>	<b>.1979</b>	<b>.2049</b>	<b>.2120</b>	<b>.2192</b>	<b>.2265</b>	<b>.2338</b>	<b>.2412</b>	<b>.2487</b>	<b>10'</b>
<b>52'</b>	.1844	.1913	.1982	.2052	.2123	.2194	.2267	.2341	.2415	.2490	<b>8'</b>
<b>54'</b>	.1847	.1915	.1984	.2054	.2125	.2197	.2269	.2343	.2417	.2492	<b>6'</b>
<b>56'</b>	.1849	.1917	.1986	.2056	.2127	.2199	.2272	.2345	.2420	.2495	<b>4'</b>
<b>58'</b>	.1851	.1919	.1989	.2059	.2130	.2202	.2274	.2348	.2422	.2497	<b>2'</b>
<b>60'</b>	.1853	.1922	.1991	.2061	.2132	.2204	.2277	.2350	.2425	.2500	<b>0'</b>
	<b>309°</b>	<b>308°</b>	<b>307°</b>	<b>306°</b>	<b>305°</b>	<b>304°</b>	<b>303°</b>	<b>302°</b>	<b>301°</b>	<b>300°</b>	$180^\circ \leq \theta$
	<i>39°</i>	<i>38°</i>	<i>37°</i>	<i>36°</i>	<i>35°</i>	<i>34°</i>	<i>33°</i>	<i>32°</i>	<i>31°</i>	<i>30°</i>	<i>Hc</i>

Usage:  $hv(302^\circ 36') = hv(57^\circ 24') = 0.2306$ . Hc = 90° - ZD.



$\theta \leq 180^\circ$	$60^\circ$	$61^\circ$	$62^\circ$	$63^\circ$	$64^\circ$	$65^\circ$	$66^\circ$	$67^\circ$	$68^\circ$	$69^\circ$	
0'	.2500	.2576	.2653	.2730	.2808	.2887	.2966	.3046	.3127	.3208	60'
2'	.2503	.2578	.2655	.2733	.2811	.2890	.2969	.3049	.3130	.3211	58'
4'	.2505	.2581	.2658	.2735	.2813	.2892	.2972	.3052	.3132	.3214	56'
6'	.2508	.2584	.2660	.2738	.2816	.2895	.2974	.3054	.3135	.3216	54'
8'	.2510	.2586	.2663	.2740	.2819	.2897	.2977	.3057	.3138	.3219	52'
10'	<b>.2513</b>	<b>.2589</b>	<b>.2665</b>	<b>.2743</b>	<b>.2821</b>	<b>.2900</b>	<b>.2980</b>	<b>.3060</b>	<b>.3140</b>	<b>.3222</b>	50'
12'	.2515	.2591	.2668	.2746	.2824	.2903	.2982	.3062	.3143	.3224	48'
14'	.2518	.2594	.2671	.2748	.2826	.2905	.2985	.3065	.3146	.3227	46'
16'	.2520	.2596	.2673	.2751	.2829	.2908	.2988	.3068	.3149	.3230	44'
18'	.2523	.2599	.2676	.2753	.2832	.2911	.2990	.3070	.3151	.3233	42'
20'	<b>.2525</b>	<b>.2601</b>	<b>.2678</b>	<b>.2756</b>	<b>.2834</b>	<b>.2913</b>	<b>.2993</b>	<b>.3073</b>	<b>.3154</b>	<b>.3235</b>	40'
22'	.2528	.2604	.2681	.2759	.2837	.2916	.2996	.3076	.3157	.3238	38'
24'	.2530	.2607	.2684	.2761	.2840	.2919	.2998	.3079	.3159	.3241	36'
26'	.2533	.2609	.2686	.2764	.2842	.2921	.3001	.3081	.3162	.3244	34'
28'	.2535	.2612	.2689	.2766	.2845	.2924	.3004	.3084	.3165	.3246	32'
30'	<b>.2538</b>	<b>.2614</b>	<b>.2691</b>	<b>.2769</b>	<b>.2847</b>	<b>.2927</b>	<b>.3006</b>	<b>.3087</b>	<b>.3167</b>	<b>.3249</b>	30'
32'	.2540	.2617	.2694	.2772	.2850	.2929	.3009	.3089	.3170	.3252	28'
34'	.2543	.2619	.2696	.2774	.2853	.2932	.3012	.3092	.3173	.3254	26'
36'	.2545	.2622	.2699	.2777	.2855	.2934	.3014	.3095	.3176	.3257	24'
38'	.2548	.2624	.2702	.2779	.2858	.2937	.3017	.3097	.3178	.3260	22'
40'	<b>.2551</b>	<b>.2627</b>	<b>.2704</b>	<b>.2782</b>	<b>.2861</b>	<b>.2940</b>	<b>.3020</b>	<b>.3100</b>	<b>.3181</b>	<b>.3263</b>	20'
42'	.2553	.2630	.2707	.2785	.2863	.2942	.3022	.3103	.3184	.3265	18'
44'	.2556	.2632	.2709	.2787	.2866	.2945	.3025	.3105	.3186	.3268	16'
46'	.2558	.2635	.2712	.2790	.2868	.2948	.3028	.3108	.3189	.3271	14'
48'	.2561	.2637	.2715	.2792	.2871	.2950	.3030	.3111	.3192	.3274	12'
50'	<b>.2563</b>	<b>.2640</b>	<b>.2717</b>	<b>.2795</b>	<b>.2874</b>	<b>.2953</b>	<b>.3033</b>	<b>.3113</b>	<b>.3195</b>	<b>.3276</b>	10'
52'	.2566	.2642	.2720	.2798	.2876	.2956	.3036	.3116	.3197	.3279	8'
54'	.2568	.2645	.2722	.2800	.2879	.2958	.3038	.3119	.3200	.3282	6'
56'	.2571	.2648	.2725	.2803	.2882	.2961	.3041	.3122	.3203	.3284	4'
58'	.2573	.2650	.2727	.2806	.2884	.2964	.3044	.3124	.3205	.3287	2'
60'	.2576	.2653	.2730	.2808	.2887	.2966	.3046	.3127	.3208	.3290	0'
	<b>299°</b>	<b>298°</b>	<b>297°</b>	<b>296°</b>	<b>295°</b>	<b>294°</b>	<b>293°</b>	<b>292°</b>	<b>291°</b>	<b>290°</b>	$180^\circ \leq \theta$
	29°	28°	27°	26°	25°	24°	23°	22°	21°	20°	Hc

Usage:  $hv(295^\circ 02') = hv(64^\circ 58') = 0.2884$ . Hc =  $90^\circ$  - ZD.

$\theta \leq 180^\circ$	<b>70°</b>	<b>71°</b>	<b>72°</b>	<b>73°</b>	<b>74°</b>	<b>75°</b>	<b>76°</b>	<b>77°</b>	<b>78°</b>	<b>79°</b>	
0'	.3290	.3372	.3455	.3538	.3622	.3706	.3790	.3875	.3960	.4046	<b>60'</b>
2'	.3293	.3375	.3458	.3541	.3625	.3709	.3793	.3878	.3963	.4049	<b>58'</b>
4'	.3295	.3378	.3460	.3544	.3627	.3712	.3796	.3881	.3966	.4052	<b>56'</b>
6'	.3298	.3380	.3463	.3546	.3630	.3714	.3799	.3884	.3969	.4055	<b>54'</b>
8'	.3301	.3383	.3466	.3549	.3633	.3717	.3802	.3887	.3972	.4057	<b>52'</b>
10'	<b>.3304</b>	<b>.3386</b>	<b>.3469</b>	<b>.3552</b>	<b>.3636</b>	<b>.3720</b>	<b>.3805</b>	<b>.3889</b>	<b>.3975</b>	<b>.4060</b>	<b>50'</b>
12'	.3306	.3389	.3472	.3555	.3639	.3723	.3807	.3892	.3978	.4063	<b>48'</b>
14'	.3309	.3391	.3474	.3558	.3641	.3726	.3810	.3895	.3980	.4066	<b>46'</b>
16'	.3312	.3394	.3477	.3560	.3644	.3728	.3813	.3898	.3983	.4069	<b>44'</b>
18'	.3315	.3397	.3480	.3563	.3647	.3731	.3816	.3901	.3986	.4072	<b>42'</b>
20'	<b>.3317</b>	<b>.3400</b>	<b>.3483</b>	<b>.3566</b>	<b>.3650</b>	<b>.3734</b>	<b>.3819</b>	<b>.3904</b>	<b>.3989</b>	<b>.4075</b>	<b>40'</b>
22'	.3320	.3402	.3485	.3569	.3653	.3737	.3821	.3906	.3992	.4077	<b>38'</b>
24'	.3323	.3405	.3488	.3572	.3655	.3740	.3824	.3909	.3995	.4080	<b>36'</b>
26'	.3325	.3408	.3491	.3574	.3658	.3742	.3827	.3912	.3997	.4083	<b>34'</b>
28'	.3328	.3411	.3494	.3577	.3661	.3745	.3830	.3915	.4000	.4086	<b>32'</b>
30'	<b>.3331</b>	<b>.3413</b>	<b>.3496</b>	<b>.3580</b>	<b>.3664</b>	<b>.3748</b>	<b>.3833</b>	<b>.3918</b>	<b>.4003</b>	<b>.4089</b>	<b>30'</b>
32'	.3334	.3416	.3499	.3583	.3667	.3751	.3836	.3921	.4006	.4092	<b>28'</b>
34'	.3336	.3419	.3502	.3586	.3669	.3754	.3838	.3923	.4009	.4095	<b>26'</b>
36'	.3339	.3422	.3505	.3588	.3672	.3757	.3841	.3926	.4012	.4097	<b>24'</b>
38'	.3342	.3425	.3508	.3591	.3675	.3759	.3844	.3929	.4015	.4100	<b>22'</b>
40'	<b>.3345</b>	<b>.3427</b>	<b>.3510</b>	<b>.3594</b>	<b>.3678</b>	<b>.3762</b>	<b>.3847</b>	<b>.3932</b>	<b>.4017</b>	<b>.4103</b>	<b>20'</b>
42'	.3347	.3430	.3513	.3597	.3681	.3765	.3850	.3935	.4020	.4106	<b>18'</b>
44'	.3350	.3433	.3516	.3599	.3683	.3768	.3853	.3938	.4023	.4109	<b>16'</b>
46'	.3353	.3436	.3519	.3602	.3686	.3771	.3855	.3941	.4026	.4112	<b>14'</b>
48'	.3356	.3438	.3521	.3605	.3689	.3773	.3858	.3943	.4029	.4115	<b>12'</b>
50'	<b>.3358</b>	<b>.3441</b>	<b>.3524</b>	<b>.3608</b>	<b>.3692</b>	<b>.3776</b>	<b>.3861</b>	<b>.3946</b>	<b>.4032</b>	<b>.4117</b>	<b>10'</b>
52'	.3361	.3444	.3527	.3611	.3695	.3779	.3864	.3949	.4035	.4120	<b>8'</b>
54'	.3364	.3447	.3530	.3613	.3697	.3782	.3867	.3952	.4037	.4123	<b>6'</b>
56'	.3367	.3449	.3533	.3616	.3700	.3785	.3870	.3955	.4040	.4126	<b>4'</b>
58'	.3369	.3452	.3535	.3619	.3703	.3788	.3872	.3958	.4043	.4129	<b>2'</b>
60'	.3372	.3455	.3538	.3622	.3706	.3790	.3875	.3960	.4046	.4132	<b>0'</b>
	<b>289°</b>	<b>288°</b>	<b>287°</b>	<b>286°</b>	<b>285°</b>	<b>284°</b>	<b>283°</b>	<b>282°</b>	<b>281°</b>	<b>280°</b>	$180^\circ \leq \theta$
	19°	18°	17°	16°	15°	14°	13°	12°	11°	10°	Hc

Usage:  $h\nu(281^\circ 40') = h\nu(78^\circ 20') = 0.3989$ . Hc = 90° - ZD.

$\theta \leq 180^\circ$	$80^\circ$	$81^\circ$	$82^\circ$	$83^\circ$	$84^\circ$	$85^\circ$	$86^\circ$	$87^\circ$	$88^\circ$	$89^\circ$	
$0'$	.4132	.4218	.4304	.4391	.4477	.4564	.4651	.4738	.4826	.4913	$60'$
$2'$	.4135	.4221	.4307	.4394	.4480	.4567	.4654	.4741	.4828	.4916	$58'$
$4'$	.4137	.4224	.4310	.4396	.4483	.4570	.4657	.4744	.4831	.4919	$56'$
$6'$	.4140	.4226	.4313	.4399	.4486	.4573	.4660	.4747	.4834	.4921	$54'$
$8'$	.4143	.4229	.4316	.4402	.4489	.4576	.4663	.4750	.4837	.4924	$52'$
$10'$	<b>.4146</b>	<b>.4232</b>	<b>.4319</b>	<b>.4405</b>	<b>.4492</b>	<b>.4579</b>	<b>.4666</b>	<b>.4753</b>	<b>.4840</b>	<b>.4927</b>	$50'$
$12'$	.4149	.4235	.4321	.4408	.4495	.4582	.4669	.4756	.4843	.4930	$48'$
$14'$	.4152	.4238	.4324	.4411	.4498	.4585	.4672	.4759	.4846	.4933	$46'$
$16'$	.4155	.4241	.4327	.4414	.4501	.4587	.4674	.4762	.4849	.4936	$44'$
$18'$	.4158	.4244	.4330	.4417	.4503	.4590	.4677	.4764	.4852	.4939	$42'$
$20'$	<b>.4160</b>	<b>.4247</b>	<b>.4333</b>	<b>.4420</b>	<b>.4506</b>	<b>.4593</b>	<b>.4680</b>	<b>.4767</b>	<b>.4855</b>	<b>.4942</b>	$40'$
$22'$	.4163	.4249	.4336	.4422	.4509	.4596	.4683	.4770	.4857	.4945	$38'$
$24'$	.4166	.4252	.4339	.4425	.4512	.4599	.4686	.4773	.4860	.4948	$36'$
$26'$	.4169	.4255	.4342	.4428	.4515	.4602	.4689	.4776	.4863	.4951	$34'$
$28'$	.4172	.4258	.4344	.4431	.4518	.4605	.4692	.4779	.4866	.4953	$32'$
$30'$	<b>.4175</b>	<b>.4261</b>	<b>.4347</b>	<b>.4434</b>	<b>.4521</b>	<b>.4608</b>	<b>.4695</b>	<b>.4782</b>	<b>.4869</b>	<b>.4956</b>	$30'$
$32'$	.4178	.4264	.4350	.4437	.4524	.4611	.4698	.4785	.4872	.4959	$28'$
$34'$	.4181	.4267	.4353	.4440	.4527	.4614	.4701	.4788	.4875	.4962	$26'$
$36'$	.4183	.4270	.4356	.4443	.4529	.4616	.4703	.4791	.4878	.4965	$24'$
$38'$	.4186	.4272	.4359	.4446	.4532	.4619	.4706	.4794	.4881	.4968	$22'$
$40'$	<b>.4189</b>	<b>.4275</b>	<b>.4362</b>	<b>.4448</b>	<b>.4535</b>	<b>.4622</b>	<b>.4709</b>	<b>.4796</b>	<b>.4884</b>	<b>.4971</b>	$20'$
$42'$	.4192	.4278	.4365	.4451	.4538	.4625	.4712	.4799	.4887	.4974	$18'$
$44'$	.4195	.4281	.4368	.4454	.4541	.4628	.4715	.4802	.4889	.4977	$16'$
$46'$	.4198	.4284	.4370	.4457	.4544	.4631	.4718	.4805	.4892	.4980	$14'$
$48'$	.4201	.4287	.4373	.4460	.4547	.4634	.4721	.4808	.4895	.4983	$12'$
$50'$	<b>.4203</b>	<b>.4290</b>	<b>.4376</b>	<b>.4463</b>	<b>.4550</b>	<b>.4637</b>	<b>.4724</b>	<b>.4811</b>	<b>.4898</b>	<b>.4985</b>	$10'$
$52'$	.4206	.4293	.4379	.4466	.4553	.4640	.4727	.4814	.4901	.4988	$8'$
$54'$	.4209	.4295	.4382	.4469	.4556	.4643	.4730	.4817	.4904	.4991	$6'$
$56'$	.4212	.4298	.4385	.4472	.4558	.4645	.4733	.4820	.4907	.4994	$4'$
$58'$	.4215	.4301	.4388	.4474	.4561	.4648	.4735	.4823	.4910	.4997	$2'$
$60'$	.4218	.4304	.4391	.4477	.4564	.4651	.4738	.4826	.4913	.5000	$0'$
	<b><math>279^\circ</math></b>	<b><math>278^\circ</math></b>	<b><math>277^\circ</math></b>	<b><math>276^\circ</math></b>	<b><math>275^\circ</math></b>	<b><math>274^\circ</math></b>	<b><math>273^\circ</math></b>	<b><math>272^\circ</math></b>	<b><math>271^\circ</math></b>	<b><math>270^\circ</math></b>	$180^\circ \leq \theta$
	$9^\circ$	$8^\circ$	$7^\circ$	$6^\circ$	$5^\circ$	$4^\circ$	$3^\circ$	$2^\circ$	$1^\circ$	$0^\circ$	Hc

Usage:  $hv(277^\circ 10') = hv(82^\circ 50') = 0.4376$ . Hc =  $90^\circ$  - ZD.

$Hc$	$0^\circ$	$-1^\circ$	$-2^\circ$	$-3^\circ$	$-4^\circ$	$-5^\circ$	$-6^\circ$	$-7^\circ$	$-8^\circ$	$-9^\circ$	
$\theta \leq 180^\circ$	<b>90°</b>	<b>91°</b>	<b>92°</b>	<b>93°</b>	<b>94°</b>	<b>95°</b>	<b>96°</b>	<b>97°</b>	<b>98°</b>	<b>99°</b>	
0'	.5000	.5087	.5174	.5262	.5349	.5436	.5523	.5609	.5696	.5782	<b>60'</b>
2'	.5003	.5090	.5177	.5265	.5352	.5439	.5526	.5612	.5699	.5785	<b>58'</b>
4'	.5006	.5093	.5180	.5267	.5355	.5442	.5528	.5615	.5702	.5788	<b>56'</b>
6'	.5009	.5096	.5183	.5270	.5357	.5444	.5531	.5618	.5705	.5791	<b>54'</b>
8'	.5012	.5099	.5186	.5273	.5360	.5447	.5534	.5621	.5707	.5794	<b>52'</b>
10'	<b>.5015</b>	<b>.5102</b>	<b>.5189</b>	<b>.5276</b>	<b>.5363</b>	<b>.5450</b>	<b>.5537</b>	<b>.5624</b>	<b>.5710</b>	<b>.5797</b>	<b>50'</b>
12'	.5017	.5105	.5192	.5279	.5366	.5453	.5540	.5627	.5713	.5799	<b>48'</b>
14'	.5020	.5108	.5195	.5282	.5369	.5456	.5543	.5630	.5716	.5802	<b>46'</b>
16'	.5023	.5111	.5198	.5285	.5372	.5459	.5546	.5632	.5719	.5805	<b>44'</b>
18'	.5026	.5113	.5201	.5288	.5375	.5462	.5549	.5635	.5722	.5808	<b>42'</b>
20'	<b>.5029</b>	<b>.5116</b>	<b>.5204</b>	<b>.5291</b>	<b>.5378</b>	<b>.5465</b>	<b>.5552</b>	<b>.5638</b>	<b>.5725</b>	<b>.5811</b>	<b>40'</b>
22'	.5032	.5119	.5206	.5294	.5381	.5468	.5554	.5641	.5728	.5814	<b>38'</b>
24'	.5035	.5122	.5209	.5297	.5384	.5471	.5557	.5644	.5730	.5817	<b>36'</b>
26'	.5038	.5125	.5212	.5299	.5386	.5473	.5560	.5647	.5733	.5819	<b>34'</b>
28'	.5041	.5128	.5215	.5302	.5389	.5476	.5563	.5650	.5736	.5822	<b>32'</b>
30'	<b>.5044</b>	<b>.5131</b>	<b>.5218</b>	<b>.5305</b>	<b>.5392</b>	<b>.5479</b>	<b>.5566</b>	<b>.5653</b>	<b>.5739</b>	<b>.5825</b>	<b>30'</b>
32'	.5047	.5134	.5221	.5308	.5395	.5482	.5569	.5656	.5742	.5828	<b>28'</b>
34'	.5049	.5137	.5224	.5311	.5398	.5485	.5572	.5658	.5745	.5831	<b>26'</b>
36'	.5052	.5140	.5227	.5314	.5401	.5488	.5575	.5661	.5748	.5834	<b>24'</b>
38'	.5055	.5143	.5230	.5317	.5404	.5491	.5578	.5664	.5751	.5837	<b>22'</b>
40'	<b>.5058</b>	<b>.5145</b>	<b>.5233</b>	<b>.5320</b>	<b>.5407</b>	<b>.5494</b>	<b>.5580</b>	<b>.5667</b>	<b>.5753</b>	<b>.5840</b>	<b>20'</b>
42'	.5061	.5148	.5236	.5323	.5410	.5497	.5583	.5670	.5756	.5842	<b>18'</b>
44'	.5064	.5151	.5238	.5326	.5413	.5499	.5586	.5673	.5759	.5845	<b>16'</b>
46'	.5067	.5154	.5241	.5328	.5415	.5502	.5589	.5676	.5762	.5848	<b>14'</b>
48'	.5070	.5157	.5244	.5331	.5418	.5505	.5592	.5679	.5765	.5851	<b>12'</b>
50'	<b>.5073</b>	<b>.5160</b>	<b>.5247</b>	<b>.5334</b>	<b>.5421</b>	<b>.5508</b>	<b>.5595</b>	<b>.5681</b>	<b>.5768</b>	<b>.5854</b>	<b>10'</b>
52'	.5076	.5163	.5250	.5337	.5424	.5511	.5598	.5684	.5771	.5857	<b>8'</b>
54'	.5079	.5166	.5253	.5340	.5427	.5514	.5601	.5687	.5774	.5860	<b>6'</b>
56'	.5081	.5169	.5256	.5343	.5430	.5517	.5604	.5690	.5776	.5863	<b>4'</b>
58'	.5084	.5172	.5259	.5346	.5433	.5520	.5606	.5693	.5779	.5865	<b>2'</b>
60'	.5087	.5174	.5262	.5349	.5436	.5523	.5609	.5696	.5782	.5868	<b>0'</b>
	<b>269°</b>	<b>268°</b>	<b>267°</b>	<b>266°</b>	<b>265°</b>	<b>264°</b>	<b>263°</b>	<b>262°</b>	<b>261°</b>	<b>260°</b>	$180^\circ \leq \theta$

Usage:  $h\nu(263^\circ 34') = h\nu(96^\circ 26') = 0.556$ .  $Hc = 90^\circ - ZD$ .

$\theta \leq 180^\circ$	100°	101°	102°	103°	104°	105°	106°	107°	108°	109°	
0'	.5868	.5954	.6040	.6125	.6210	.6294	.6378	.6462	.6545	.6628	60'
2'	.5871	.5957	.6042	.6128	.6212	.6297	.6381	.6465	.6548	.6631	58'
4'	.5874	.5960	.6045	.6130	.6215	.6300	.6384	.6467	.6551	.6633	56'
6'	.5877	.5963	.6048	.6133	.6218	.6303	.6387	.6470	.6553	.6636	54'
8'	.5880	.5965	.6051	.6136	.6221	.6305	.6389	.6473	.6556	.6639	52'
10'	<b>.5883</b>	<b>.5968</b>	<b>.6054</b>	<b>.6139</b>	<b>.6224</b>	<b>.6308</b>	<b>.6392</b>	<b>.6476</b>	<b>.6559</b>	<b>.6642</b>	50'
12'	.5885	.5971	.6057	.6142	.6227	.6311	.6395	.6479	.6562	.6644	48'
14'	.5888	.5974	.6059	.6145	.6229	.6314	.6398	.6481	.6564	.6647	46'
16'	.5891	.5977	.6062	.6147	.6232	.6317	.6401	.6484	.6567	.6650	44'
18'	.5894	.5980	.6065	.6150	.6235	.6319	.6403	.6487	.6570	.6653	42'
20'	<b>.5897</b>	<b>.5983</b>	<b>.6068</b>	<b>.6153</b>	<b>.6238</b>	<b>.6322</b>	<b>.6406</b>	<b>.6490</b>	<b>.6573</b>	<b>.6655</b>	40'
22'	.5900	.5985	.6071	.6156	.6241	.6325	.6409	.6492	.6575	.6658	38'
24'	.5903	.5988	.6074	.6159	.6243	.6328	.6412	.6495	.6578	.6661	36'
26'	.5905	.5991	.6077	.6162	.6246	.6331	.6414	.6498	.6581	.6664	34'
28'	.5908	.5994	.6079	.6164	.6249	.6333	.6417	.6501	.6584	.6666	32'
30'	<b>.5911</b>	<b>.5997</b>	<b>.6082</b>	<b>.6167</b>	<b>.6252</b>	<b>.6336</b>	<b>.6420</b>	<b>.6504</b>	<b>.6587</b>	<b>.6669</b>	30'
32'	.5914	.6000	.6085	.6170	.6255	.6339	.6423	.6506	.6589	.6672	28'
34'	.5917	.6003	.6088	.6173	.6258	.6342	.6426	.6509	.6592	.6675	26'
36'	.5920	.6005	.6091	.6176	.6260	.6345	.6428	.6512	.6595	.6677	24'
38'	.5923	.6008	.6094	.6179	.6263	.6347	.6431	.6515	.6598	.6680	22'
40'	<b>.5925</b>	<b>.6011</b>	<b>.6096</b>	<b>.6181</b>	<b>.6266</b>	<b>.6350</b>	<b>.6434</b>	<b>.6517</b>	<b>.6600</b>	<b>.6683</b>	20'
42'	.5928	.6014	.6099	.6184	.6269	.6353	.6437	.6520	.6603	.6685	18'
44'	.5931	.6017	.6102	.6187	.6272	.6356	.6440	.6523	.6606	.6688	16'
46'	.5934	.6020	.6105	.6190	.6274	.6359	.6442	.6526	.6609	.6691	14'
48'	.5937	.6022	.6108	.6193	.6277	.6361	.6445	.6528	.6611	.6694	12'
50'	<b>.5940</b>	<b>.6025</b>	<b>.6111</b>	<b>.6195</b>	<b>.6280</b>	<b>.6364</b>	<b>.6448</b>	<b>.6531</b>	<b>.6614</b>	<b>.6696</b>	10'
52'	.5943	.6028	.6113	.6198	.6283	.6367	.6451	.6534	.6617	.6699	8'
54'	.5945	.6031	.6116	.6201	.6286	.6370	.6454	.6537	.6620	.6702	6'
56'	.5948	.6034	.6119	.6204	.6288	.6373	.6456	.6540	.6622	.6705	4'
58'	.5951	.6037	.6122	.6207	.6291	.6375	.6459	.6542	.6625	.6707	2'
60'	.5954	.6040	.6125	.6210	.6294	.6378	.6462	.6545	.6628	.6710	0'
	<b>259°</b>	<b>258°</b>	<b>257°</b>	<b>256°</b>	<b>255°</b>	<b>254°</b>	<b>253°</b>	<b>252°</b>	<b>251°</b>	<b>250°</b>	$180^\circ \leq \theta$

Usage:  $h\nu(255^\circ 54') = h\nu(104^\circ 06') = 0.6218$ .

$\theta \leq 180^\circ$	110°	111°	112°	113°	114°	115°	116°	117°	118°	119°	
0'	.6710	.6792	.6873	.6954	.7034	.7113	.7192	.7270	.7347	.7424	60'
2'	.6713	.6795	.6876	.6956	.7036	.7116	.7194	.7273	.7350	.7427	58'
4'	.6716	.6797	.6878	.6959	.7039	.7118	.7197	.7275	.7352	.7429	56'
6'	.6718	.6800	.6881	.6962	.7042	.7121	.7200	.7278	.7355	.7432	54'
8'	.6721	.6803	.6884	.6964	.7044	.7124	.7202	.7280	.7358	.7434	52'
10'	<b>.6724</b>	<b>.6805</b>	<b>.6887</b>	<b>.6967</b>	<b>.7047</b>	<b>.7126</b>	<b>.7205</b>	<b>.7283</b>	<b>.7360</b>	<b>.7437</b>	50'
12'	.6726	.6808	.6889	.6970	.7050	.7129	.7208	.7285	.7363	.7439	48'
14'	.6729	.6811	.6892	.6972	.7052	.7132	.7210	.7288	.7365	.7442	46'
16'	.6732	.6814	.6895	.6975	.7055	.7134	.7213	.7291	.7368	.7444	44'
18'	.6735	.6816	.6897	.6978	.7058	.7137	.7215	.7293	.7370	.7447	42'
20'	<b>.6737</b>	<b>.6819</b>	<b>.6900</b>	<b>.6980</b>	<b>.7060</b>	<b>.7139</b>	<b>.7218</b>	<b>.7296</b>	<b>.7373</b>	<b>.7449</b>	40'
22'	.6740	.6822	.6903	.6983	.7063	.7142	.7221	.7298	.7376	.7452	38'
24'	.6743	.6824	.6905	.6986	.7066	.7145	.7223	.7301	.7378	.7455	36'
26'	.6746	.6827	.6908	.6988	.7068	.7147	.7226	.7304	.7381	.7457	34'
28'	.6748	.6830	.6911	.6991	.7071	.7150	.7228	.7306	.7383	.7460	32'
30'	<b>.6751</b>	<b>.6833</b>	<b>.6913</b>	<b>.6994</b>	<b>.7073</b>	<b>.7153</b>	<b>.7231</b>	<b>.7309</b>	<b>.7386</b>	<b>.7462</b>	30'
32'	.6754	.6835	.6916	.6996	.7076	.7155	.7234	.7311	.7388	.7465	28'
34'	.6756	.6838	.6919	.6999	.7079	.7158	.7236	.7314	.7391	.7467	26'
36'	.6759	.6841	.6921	.7002	.7081	.7160	.7239	.7316	.7393	.7470	24'
38'	.6762	.6843	.6924	.7004	.7084	.7163	.7241	.7319	.7396	.7472	22'
40'	<b>.6765</b>	<b>.6846</b>	<b>.6927</b>	<b>.7007</b>	<b>.7087</b>	<b>.7166</b>	<b>.7244</b>	<b>.7322</b>	<b>.7399</b>	<b>.7475</b>	20'
42'	.6767	.6849	.6930	.7010	.7089	.7168	.7247	.7324	.7401	.7477	18'
44'	.6770	.6851	.6932	.7012	.7092	.7171	.7249	.7327	.7404	.7480	16'
46'	.6773	.6854	.6935	.7015	.7095	.7174	.7252	.7329	.7406	.7482	14'
48'	.6776	.6857	.6938	.7018	.7097	.7176	.7254	.7332	.7409	.7485	12'
50'	<b>.6778</b>	<b>.6860</b>	<b>.6940</b>	<b>.7020</b>	<b>.7100</b>	<b>.7179</b>	<b>.7257</b>	<b>.7335</b>	<b>.7411</b>	<b>.7487</b>	10'
52'	.6781	.6862	.6943	.7023	.7103	.7181	.7260	.7337	.7414	.7490	8'
54'	.6784	.6865	.6946	.7026	.7105	.7184	.7262	.7340	.7416	.7492	6'
56'	.6786	.6868	.6948	.7028	.7108	.7187	.7265	.7342	.7419	.7495	4'
58'	.6789	.6870	.6951	.7031	.7110	.7189	.7267	.7345	.7422	.7497	2'
60'	.6792	.6873	.6954	.7034	.7113	.7192	.7270	.7347	.7424	.7500	0'
	249°	248°	247°	246°	245°	244°	243°	242°	241°	240°	$180^\circ \leq \theta$

Usage:  $hv(240^\circ 10') = hv(119^\circ 50') = 0.7487$ .

$\theta \leq 180^\circ$	120°	121°	122°	123°	124°	125°	126°	127°	128°	129°	
0'	.7500	.7575	.7650	.7723	.7796	.7868	.7939	.8009	.8078	.8147	60'
2'	.7503	.7578	.7652	.7726	.7798	.7870	.7941	.8011	.8081	.8149	58'
4'	.7505	.7580	.7655	.7728	.7801	.7873	.7944	.8014	.8083	.8151	56'
6'	.7508	.7583	.7657	.7731	.7803	.7875	.7946	.8016	.8085	.8153	54'
8'	.7510	.7585	.7659	.7733	.7806	.7877	.7948	.8018	.8087	.8156	52'
10'	<b>.7513</b>	<b>.7588</b>	<b>.7662</b>	<b>.7735</b>	<b>.7808</b>	<b>.7880</b>	<b>.7951</b>	<b>.8021</b>	<b>.8090</b>	<b>.8158</b>	50'
12'	.7515	.7590	.7664	.7738	.7810	.7882	.7953	.8023	.8092	.8160	48'
14'	.7518	.7593	.7667	.7740	.7813	.7885	.7955	.8025	.8094	.8162	46'
16'	.7520	.7595	.7669	.7743	.7815	.7887	.7958	.8028	.8097	.8165	44'
18'	.7523	.7598	.7672	.7745	.7818	.7889	.7960	.8030	.8099	.8167	42'
20'	<b>.7525</b>	<b>.7600</b>	<b>.7674</b>	<b>.7748</b>	<b>.7820</b>	<b>.7892</b>	<b>.7962</b>	<b>.8032</b>	<b>.8101</b>	<b>.8169</b>	40'
22'	.7528	.7603	.7677	.7750	.7822	.7894	.7965	.8035	.8103	.8171	38'
24'	.7530	.7605	.7679	.7752	.7825	.7896	.7967	.8037	.8106	.8174	36'
26'	.7533	.7608	.7682	.7755	.7827	.7899	.7969	.8039	.8108	.8176	34'
28'	.7535	.7610	.7684	.7757	.7830	.7901	.7972	.8041	.8110	.8178	32'
30'	<b>.7538</b>	<b>.7612</b>	<b>.7686</b>	<b>.7760</b>	<b>.7832</b>	<b>.7904</b>	<b>.7974</b>	<b>.8044</b>	<b>.8113</b>	<b>.8180</b>	30'
32'	.7540	.7615	.7689	.7762	.7834	.7906	.7976	.8046	.8115	.8183	28'
34'	.7543	.7617	.7691	.7765	.7837	.7908	.7979	.8048	.8117	.8185	26'
36'	.7545	.7620	.7694	.7767	.7839	.7911	.7981	.8051	.8119	.8187	24'
38'	.7548	.7622	.7696	.7769	.7842	.7913	.7983	.8053	.8122	.8189	22'
40'	<b>.7550</b>	<b>.7625</b>	<b>.7699</b>	<b>.7772</b>	<b>.7844</b>	<b>.7915</b>	<b>.7986</b>	<b>.8055</b>	<b>.8124</b>	<b>.8192</b>	20'
42'	.7553	.7627	.7701	.7774	.7846	.7918	.7988	.8058	.8126	.8194	18'
44'	.7555	.7630	.7704	.7777	.7849	.7920	.7990	.8060	.8128	.8196	16'
46'	.7558	.7632	.7706	.7779	.7851	.7922	.7993	.8062	.8131	.8198	14'
48'	.7560	.7635	.7709	.7781	.7854	.7925	.7995	.8065	.8133	.8201	12'
50'	<b>.7563</b>	<b>.7637</b>	<b>.7711</b>	<b>.7784</b>	<b>.7856</b>	<b>.7927</b>	<b>.7997</b>	<b>.8067</b>	<b>.8135</b>	<b>.8203</b>	10'
52'	.7565	.7640	.7713	.7786	.7858	.7930	.8000	.8069	.8138	.8205	8'
54'	.7568	.7642	.7716	.7789	.7861	.7932	.8002	.8071	.8140	.8207	6'
56'	.7570	.7645	.7718	.7791	.7863	.7934	.8004	.8074	.8142	.8209	4'
58'	.7573	.7647	.7721	.7794	.7865	.7937	.8007	.8076	.8144	.8212	2'
60'	.7575	.7650	.7723	.7796	.7868	.7939	.8009	.8078	.8147	.8214	0'
	<b>239°</b>	<b>238°</b>	<b>237°</b>	<b>236°</b>	<b>235°</b>	<b>234°</b>	<b>233°</b>	<b>232°</b>	<b>231°</b>	<b>230°</b>	$180^\circ \leq \theta$

Usage:  $h\nu(236^\circ 40') = h\nu(123^\circ 20') = 0.7748$ .

$\theta \leq 180^\circ$	130°	131°	132°	133°	134°	135°	136°	137°	138°	139°	
0'	.8214	.8280	.8346	.8410	.8473	.8536	.8597	.8657	.8716	.8774	60'
2'	.8216	.8282	.8348	.8412	.8475	.8538	.8599	.8659	.8718	.8775	58'
4'	.8218	.8285	.8350	.8414	.8477	.8540	.8601	.8661	.8720	.8777	56'
6'	.8221	.8287	.8352	.8416	.8480	.8542	.8603	.8663	.8722	.8779	54'
8'	.8223	.8289	.8354	.8418	.8482	.8544	.8605	.8665	.8723	.8781	52'
10'	<b>.8225</b>	<b>.8291</b>	<b>.8356</b>	<b>.8421</b>	<b>.8484</b>	<b>.8546</b>	<b>.8607</b>	<b>.8667</b>	<b>.8725</b>	<b>.8783</b>	50'
12'	.8227	.8293	.8359	.8423	.8486	.8548	.8609	.8669	.8727	.8785	48'
14'	.8230	.8296	.8361	.8425	.8488	.8550	.8611	.8671	.8729	.8787	46'
16'	.8232	.8298	.8363	.8427	.8490	.8552	.8613	.8673	.8731	.8789	44'
18'	.8234	.8300	.8365	.8429	.8492	.8554	.8615	.8675	.8733	.8791	42'
20'	<b>.8236</b>	<b>.8302</b>	<b>.8367</b>	<b>.8431</b>	<b>.8494</b>	<b>.8556</b>	<b>.8617</b>	<b>.8677</b>	<b>.8735</b>	<b>.8793</b>	40'
22'	.8238	.8304	.8369	.8433	.8496	.8558	.8619	.8679	.8737	.8794	38'
24'	.8241	.8307	.8372	.8435	.8498	.8560	.8621	.8680	.8739	.8796	36'
26'	.8243	.8309	.8374	.8438	.8500	.8562	.8623	.8682	.8741	.8798	34'
28'	.8245	.8311	.8376	.8440	.8502	.8564	.8625	.8684	.8743	.8800	32'
30'	<b>.8247</b>	<b>.8313</b>	<b>.8378</b>	<b>.8442</b>	<b>.8505</b>	<b>.8566</b>	<b>.8627</b>	<b>.8686</b>	<b>.8745</b>	<b>.8802</b>	30'
32'	.8249	.8315	.8380	.8444	.8507	.8568	.8629	.8688	.8747	.8804	28'
34'	.8252	.8317	.8382	.8446	.8509	.8570	.8631	.8690	.8749	.8806	26'
36'	.8254	.8320	.8384	.8448	.8511	.8572	.8633	.8692	.8751	.8808	24'
38'	.8256	.8322	.8387	.8450	.8513	.8574	.8635	.8694	.8752	.8810	22'
40'	<b>.8258</b>	<b>.8324</b>	<b>.8389</b>	<b>.8452</b>	<b>.8515</b>	<b>.8576</b>	<b>.8637</b>	<b>.8696</b>	<b>.8754</b>	<b>.8811</b>	20'
42'	.8260	.8326	.8391	.8454	.8517	.8578	.8639	.8698	.8756	.8813	18'
44'	.8263	.8328	.8393	.8457	.8519	.8580	.8641	.8700	.8758	.8815	16'
46'	.8265	.8330	.8395	.8459	.8521	.8583	.8643	.8702	.8760	.8817	14'
48'	.8267	.8333	.8397	.8461	.8523	.8585	.8645	.8704	.8762	.8819	12'
50'	<b>.8269</b>	<b>.8335</b>	<b>.8399</b>	<b>.8463</b>	<b>.8525</b>	<b>.8587</b>	<b>.8647</b>	<b>.8706</b>	<b>.8764</b>	<b>.8821</b>	10'
52'	.8272	.8337	.8401	.8465	.8527	.8589	.8649	.8708	.8766	.8823	8'
54'	.8274	.8339	.8404	.8467	.8529	.8591	.8651	.8710	.8768	.8825	6'
56'	.8276	.8341	.8406	.8469	.8531	.8593	.8653	.8712	.8770	.8826	4'
58'	.8278	.8343	.8408	.8471	.8533	.8595	.8655	.8714	.8772	.8828	2'
60'	.8280	.8346	.8410	.8473	.8536	.8597	.8657	.8716	.8774	.8830	0'
	<b>229°</b>	<b>228°</b>	<b>227°</b>	<b>226°</b>	<b>225°</b>	<b>224°</b>	<b>223°</b>	<b>222°</b>	<b>221°</b>	<b>220°</b>	$180^\circ \leq \theta$

Usage:  $h\nu(224^\circ 22') = h\nu(135^\circ 38') = 0.8574$ .



$\theta \leq 180^\circ$	140°	141°	142°	143°	144°	145°	146°	147°	148°	149°	
0'	.8830	.8886	.8940	.8993	.9045	.9096	.9145	.9193	.9240	.9286	60'
2'	.8832	.8888	.8942	.8995	.9047	.9097	.9147	.9195	.9242	.9287	58'
4'	.8834	.8889	.8944	.8997	.9049	.9099	.9148	.9197	.9243	.9289	56'
6'	.8836	.8891	.8945	.8998	.9050	.9101	.9150	.9198	.9245	.9290	54'
8'	.8838	.8893	.8947	.9000	.9052	.9102	.9152	.9200	.9246	.9292	52'
10'	<b>.8840</b>	<b>.8895</b>	<b>.8949</b>	<b>.9002</b>	<b>.9054</b>	<b>.9104</b>	<b>.9153</b>	<b>.9201</b>	<b>.9248</b>	<b>.9293</b>	50'
12'	.8841	.8897	.8951	.9004	.9055	.9106	.9155	.9203	.9249	.9295	48'
14'	.8843	.8899	.8953	.9005	.9057	.9107	.9157	.9204	.9251	.9296	46'
16'	.8845	.8900	.8954	.9007	.9059	.9109	.9158	.9206	.9253	.9298	44'
18'	.8847	.8902	.8956	.9009	.9060	.9111	.9160	.9208	.9254	.9299	42'
20'	<b>.8849</b>	<b>.8904</b>	<b>.8958</b>	<b>.9011</b>	<b>.9062</b>	<b>.9112</b>	<b>.9161</b>	<b>.9209</b>	<b>.9256</b>	<b>.9301</b>	40'
22'	.8851	.8906	.8960	.9012	.9064	.9114	.9163	.9211	.9257	.9302	38'
24'	.8853	.8908	.8961	.9014	.9066	.9116	.9165	.9212	.9259	.9304	36'
26'	.8854	.8909	.8963	.9016	.9067	.9117	.9166	.9214	.9260	.9305	34'
28'	.8856	.8911	.8965	.9018	.9069	.9119	.9168	.9215	.9262	.9307	32'
30'	<b>.8858</b>	<b>.8913</b>	<b>.8967</b>	<b>.9019</b>	<b>.9071</b>	<b>.9121</b>	<b>.9169</b>	<b>.9217</b>	<b>.9263</b>	<b>.9308</b>	30'
32'	.8860	.8915	.8969	.9021	.9072	.9122	.9171	.9219	.9265	.9310	28'
34'	.8862	.8917	.8970	.9023	.9074	.9124	.9173	.9220	.9266	.9311	26'
36'	.8864	.8918	.8972	.9024	.9076	.9126	.9174	.9222	.9268	.9313	24'
38'	.8866	.8920	.8974	.9026	.9077	.9127	.9176	.9223	.9269	.9314	22'
40'	<b>.8867</b>	<b>.8922</b>	<b>.8976</b>	<b>.9028</b>	<b>.9079</b>	<b>.9129</b>	<b>.9177</b>	<b>.9225</b>	<b>.9271</b>	<b>.9316</b>	20'
42'	.8869	.8924	.8977	.9030	.9081	.9130	.9179	.9226	.9272	.9317	18'
44'	.8871	.8926	.8979	.9031	.9082	.9132	.9181	.9228	.9274	.9318	16'
46'	.8873	.8927	.8981	.9033	.9084	.9134	.9182	.9229	.9275	.9320	14'
48'	.8875	.8929	.8983	.9035	.9086	.9135	.9184	.9231	.9277	.9321	12'
50'	<b>.8877</b>	<b>.8931</b>	<b>.8984</b>	<b>.9037</b>	<b>.9087</b>	<b>.9137</b>	<b>.9185</b>	<b>.9233</b>	<b>.9278</b>	<b>.9323</b>	10'
52'	.8878	.8933	.8986	.9038	.9089	.9139	.9187	.9234	.9280	.9324	8'
54'	.8880	.8935	.8988	.9040	.9091	.9140	.9189	.9236	.9281	.9326	6'
56'	.8882	.8936	.8990	.9042	.9092	.9142	.9190	.9237	.9283	.9327	4'
58'	.8884	.8938	.8991	.9043	.9094	.9144	.9192	.9239	.9284	.9329	2'
60'	.8886	.8940	.8993	.9045	.9096	.9145	.9193	.9240	.9286	.9330	0'
	<b>219°</b>	<b>218°</b>	<b>217°</b>	<b>216°</b>	<b>215°</b>	<b>214°</b>	<b>213°</b>	<b>212°</b>	<b>211°</b>	<b>210°</b>	$180^\circ \leq \theta$

Usage:  $hv(218^\circ 02') = hv(141^\circ 58') = 0.8938$ .

$\theta \leq 180^\circ$	150°	151°	152°	153°	154°	155°	156°	157°	158°	159°	
0'	.9330	.9373	.9415	.9455	.9494	.9532	.9568	.9603	.9636	.9668	60'
2'	.9332	.9375	.9416	.9456	.9495	.9533	.9569	.9604	.9637	.9669	58'
4'	.9333	.9376	.9417	.9458	.9497	.9534	.9570	.9605	.9638	.9670	56'
6'	.9334	.9377	.9419	.9459	.9498	.9535	.9571	.9606	.9639	.9671	54'
8'	.9336	.9379	.9420	.9460	.9499	.9536	.9572	.9607	.9640	.9672	52'
10'	<b>.9337</b>	<b>.9380</b>	<b>.9422</b>	<b>.9462</b>	<b>.9500</b>	<b>.9538</b>	<b>.9574</b>	<b>.9608</b>	<b>.9641</b>	<b>.9673</b>	50'
12'	.9339	.9382	.9423	.9463	.9502	.9539	.9575	.9609	.9642	.9674	48'
14'	.9340	.9383	.9424	.9464	.9503	.9540	.9576	.9610	.9644	.9675	46'
16'	.9342	.9384	.9426	.9466	.9504	.9541	.9577	.9612	.9645	.9676	44'
18'	.9343	.9386	.9427	.9467	.9505	.9543	.9578	.9613	.9646	.9677	42'
20'	<b>.9345</b>	<b>.9387</b>	<b>.9428</b>	<b>.9468</b>	<b>.9507</b>	<b>.9544</b>	<b>.9579</b>	<b>.9614</b>	<b>.9647</b>	<b>.9678</b>	40'
22'	.9346	.9389	.9430	.9469	.9508	.9545	.9581	.9615	.9648	.9679	38'
24'	.9347	.9390	.9431	.9471	.9509	.9546	.9582	.9616	.9649	.9680	36'
26'	.9349	.9391	.9432	.9472	.9510	.9547	.9583	.9617	.9650	.9681	34'
28'	.9350	.9393	.9434	.9473	.9512	.9549	.9584	.9618	.9651	.9682	32'
30'	<b>.9352</b>	<b>.9394</b>	<b>.9435</b>	<b>.9475</b>	<b>.9513</b>	<b>.9550</b>	<b>.9585</b>	<b>.9619</b>	<b>.9652</b>	<b>.9683</b>	30'
32'	.9353	.9395	.9436	.9476	.9514	.9551	.9586	.9621	.9653	.9684	28'
34'	.9355	.9397	.9438	.9477	.9515	.9552	.9588	.9622	.9654	.9685	26'
36'	.9356	.9398	.9439	.9479	.9517	.9553	.9589	.9623	.9655	.9686	24'
38'	.9357	.9400	.9440	.9480	.9518	.9555	.9590	.9624	.9656	.9687	22'
40'	<b>.9359</b>	<b>.9401</b>	<b>.9442</b>	<b>.9481</b>	<b>.9519</b>	<b>.9556</b>	<b>.9591</b>	<b>.9625</b>	<b>.9657</b>	<b>.9688</b>	20'
42'	.9360	.9402	.9443	.9482	.9520	.9557	.9592	.9626	.9658	.9689	18'
44'	.9362	.9404	.9444	.9484	.9522	.9558	.9593	.9627	.9660	.9690	16'
46'	.9363	.9405	.9446	.9485	.9523	.9559	.9595	.9628	.9661	.9691	14'
48'	.9365	.9407	.9447	.9486	.9524	.9561	.9596	.9629	.9662	.9692	12'
50'	<b>.9366</b>	<b>.9408</b>	<b>.9448</b>	<b>.9488</b>	<b>.9525</b>	<b>.9562</b>	<b>.9597</b>	<b>.9630</b>	<b>.9663</b>	<b>.9693</b>	10'
52'	.9367	.9409	.9450	.9489	.9527	.9563	.9598	.9632	.9664	.9694	8'
54'	.9369	.9411	.9451	.9490	.9528	.9564	.9599	.9633	.9665	.9695	6'
56'	.9370	.9412	.9452	.9491	.9529	.9565	.9600	.9634	.9666	.9696	4'
58'	.9372	.9413	.9454	.9493	.9530	.9567	.9601	.9635	.9667	.9697	2'
60'	.9373	.9415	.9455	.9494	.9532	.9568	.9603	.9636	.9668	.9698	0'
	<b>209°</b>	<b>208°</b>	<b>207°</b>	<b>206°</b>	<b>205°</b>	<b>204°</b>	<b>203°</b>	<b>202°</b>	<b>201°</b>	<b>200°</b>	$180^\circ \leq \theta$

Usage:  $hv(205^\circ 56') = hv(154^\circ 04') = 0.9497$ .

$\theta \leq 180^\circ$	160°	161°	162°	163°	164°	165°	166°	167°	168°	169°	
0'	.9698	.9728	.9755	.9782	.9806	.9830	.9851	.9872	.9891	.9908	60'
2'	.9699	.9729	.9756	.9782	.9807	.9830	.9852	.9873	.9891	.9909	58'
4'	.9700	.9729	.9757	.9783	.9808	.9831	.9853	.9873	.9892	.9909	56'
6'	.9701	.9730	.9758	.9784	.9809	.9832	.9854	.9874	.9893	.9910	54'
8'	.9702	.9731	.9759	.9785	.9810	.9833	.9854	.9874	.9893	.9910	52'
10'	<b>.9703</b>	<b>.9732</b>	<b>.9760</b>	<b>.9786</b>	<b>.9810</b>	<b>.9833</b>	<b>.9855</b>	<b>.9875</b>	<b>.9894</b>	<b>.9911</b>	50'
12'	.9704	.9733	.9761	.9787	.9811	.9834	.9856	.9876	.9894	.9911	48'
14'	.9705	.9734	.9762	.9787	.9812	.9835	.9856	.9876	.9895	.9912	46'
16'	.9706	.9735	.9762	.9788	.9813	.9836	.9857	.9877	.9896	.9913	44'
18'	.9707	.9736	.9763	.9789	.9813	.9836	.9858	.9878	.9896	.9913	42'
20'	<b>.9708</b>	<b>.9737</b>	<b>.9764</b>	<b>.9790</b>	<b>.9814</b>	<b>.9837</b>	<b>.9858</b>	<b>.9878</b>	<b>.9897</b>	<b>.9914</b>	40'
22'	.9709	.9738	.9765	.9791	.9815	.9838	.9859	.9879	.9897	.9914	38'
24'	.9710	.9739	.9766	.9792	.9816	.9839	.9860	.9880	.9898	.9915	36'
26'	.9711	.9740	.9767	.9792	.9817	.9839	.9860	.9880	.9898	.9915	34'
28'	.9712	.9741	.9768	.9793	.9817	.9840	.9861	.9881	.9899	.9916	32'
30'	<b>.9713</b>	<b>.9742</b>	<b>.9769</b>	<b>.9794</b>	<b>.9818</b>	<b>.9841</b>	<b>.9862</b>	<b>.9881</b>	<b>.9900</b>	<b>.9916</b>	30'
32'	.9714	.9743	.9769	.9795	.9819	.9841	.9863	.9882	.9900	.9917	28'
34'	.9715	.9743	.9770	.9796	.9820	.9842	.9863	.9883	.9901	.9917	26'
36'	.9716	.9744	.9771	.9797	.9820	.9843	.9864	.9883	.9901	.9918	24'
38'	.9717	.9745	.9772	.9797	.9821	.9844	.9865	.9884	.9902	.9918	22'
40'	<b>.9718</b>	<b>.9746</b>	<b>.9773</b>	<b>.9798</b>	<b>.9822</b>	<b>.9844</b>	<b>.9865</b>	<b>.9885</b>	<b>.9903</b>	<b>.9919</b>	20'
42'	.9719	.9747	.9774	.9799	.9823	.9845	.9866	.9885	.9903	.9919	18'
44'	.9720	.9748	.9775	.9800	.9824	.9846	.9867	.9886	.9904	.9920	16'
46'	.9721	.9749	.9776	.9801	.9824	.9847	.9867	.9886	.9904	.9920	14'
48'	.9722	.9750	.9776	.9801	.9825	.9847	.9868	.9887	.9905	.9921	12'
50'	<b>.9723</b>	<b>.9751</b>	<b>.9777</b>	<b>.9802</b>	<b>.9826</b>	<b>.9848</b>	<b>.9869</b>	<b>.9888</b>	<b>.9905</b>	<b>.9921</b>	10'
52'	.9724	.9752	.9778	.9803	.9827	.9849	.9869	.9888	.9906	.9922	8'
54'	.9725	.9753	.9779	.9804	.9827	.9849	.9870	.9889	.9906	.9923	6'
56'	.9726	.9753	.9780	.9805	.9828	.9850	.9871	.9890	.9907	.9923	4'
58'	.9727	.9754	.9781	.9806	.9829	.9851	.9871	.9890	.9908	.9924	2'
60'	.9728	.9755	.9782	.9806	.9830	.9851	.9872	.9891	.9908	.9924	0'
	199°	198°	197°	196°	195°	194°	193°	192°	191°	190°	$180^\circ \leq \theta$

Usage:  $h\nu(192^\circ 10') = h\nu(167^\circ 50') = 0.9888$ .

$\theta \leq 180^\circ$	170°	171°	172°	173°	174°	175°	176°	177°	178°	179°	
0'	.9924	.9938	.9951	.9963	.9973	.9981	.9988	.9993	.9997	.9999	60'
2'	.9925	.9939	.9952	.9963	.9973	.9981	.9988	.9993	.9997	.9999	58'
4'	.9925	.9939	.9952	.9963	.9973	.9981	.9988	.9993	.9997	.9999	56'
6'	.9926	.9940	.9953	.9964	.9974	.9982	.9988	.9994	.9997	.9999	54'
8'	.9926	.9940	.9953	.9964	.9974	.9982	.9989	.9994	.9997	.9999	52'
10'	<b>.9927</b>	<b>.9941</b>	<b>.9953</b>	<b>.9964</b>	<b>.9974</b>	<b>.9982</b>	<b>.9989</b>	<b>.9994</b>	<b>.9997</b>	<b>.9999</b>	50'
12'	.9927	.9941	.9954	.9965	.9974	.9982	.9989	.9994	.9998	1.000	48'
14'	.9928	.9942	.9954	.9965	.9975	.9983	.9989	.9994	.9998	1.000	46'
16'	.9928	.9942	.9955	.9966	.9975	.9983	.9989	.9994	.9998	1.000	44'
18'	.9929	.9942	.9955	.9966	.9975	.9983	.9990	.9994	.9998	1.000	42'
20'	<b>.9929</b>	<b>.9943</b>	<b>.9955</b>	<b>.9966</b>	<b>.9976</b>	<b>.9983</b>	<b>.9990</b>	<b>.9995</b>	<b>.9998</b>	<b>1.000</b>	40'
22'	.9929	.9943	.9956	.9967	.9976	.9984	.9990	.9995	.9998	1.000	38'
24'	.9930	.9944	.9956	.9967	.9976	.9984	.9990	.9995	.9998	1.000	36'
26'	.9930	.9944	.9956	.9967	.9976	.9984	.9990	.9995	.9998	1.000	34'
28'	.9931	.9945	.9957	.9968	.9977	.9984	.9990	.9995	.9998	1.000	32'
30'	<b>.9931</b>	<b>.9945</b>	<b>.9957</b>	<b>.9968</b>	<b>.9977</b>	<b>.9985</b>	<b>.9991</b>	<b>.9995</b>	<b>.9998</b>	<b>1.000</b>	30'
32'	.9932	.9946	.9958	.9968	.9977	.9985	.9991	.9995	.9998	1.000	28'
34'	.9932	.9946	.9958	.9969	.9978	.9985	.9991	.9995	.9998	1.000	26'
36'	.9933	.9946	.9958	.9969	.9978	.9985	.9991	.9996	.9999	1.000	24'
38'	.9933	.9947	.9959	.9969	.9978	.9985	.9991	.9996	.9999	1.000	22'
40'	<b>.9934</b>	<b>.9947</b>	<b>.9959</b>	<b>.9969</b>	<b>.9978</b>	<b>.9986</b>	<b>.9992</b>	<b>.9996</b>	<b>.9999</b>	<b>1.000</b>	20'
42'	.9934	.9948	.9959	.9970	.9979	.9986	.9992	.9996	.9999	1.000	18'
44'	.9935	.9948	.9960	.9970	.9979	.9986	.9992	.9996	.9999	1.000	16'
46'	.9935	.9948	.9960	.9970	.9979	.9986	.9992	.9996	.9999	1.000	14'
48'	.9936	.9949	.9961	.9971	.9979	.9987	.9992	.9996	.9999	1.000	12'
50'	<b>.9936</b>	<b>.9949</b>	<b>.9961</b>	<b>.9971</b>	<b>.9980</b>	<b>.9987</b>	<b>.9992</b>	<b>.9996</b>	<b>.9999</b>	<b>1.000</b>	10'
52'	.9937	.9950	.9961	.9971	.9980	.9987	.9993	.9997	.9999	1.000	8'
54'	.9937	.9950	.9962	.9972	.9980	.9987	.9993	.9997	.9999	1.000	6'
56'	.9938	.9951	.9962	.9972	.9980	.9987	.9993	.9997	.9999	1.000	4'
58'	.9938	.9951	.9962	.9972	.9981	.9988	.9993	.9997	.9999	1.000	2'
60'	.9938	.9951	.9963	.9973	.9981	.9988	.9993	.9997	.9999	1.000	0'
	189°	188°	187°	186°	185°	184°	183°	182°	181°	180°	$180^\circ \leq \theta$

Usage:  $hv(188^\circ 50') = hv(171^\circ 10') = 0.9941$ .