

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P457368

Luminaire Tested: **GALN-SA8D-722-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457368
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-722-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2200K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39583 lumens
Efficiency: N/A
Efficacy: 80.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

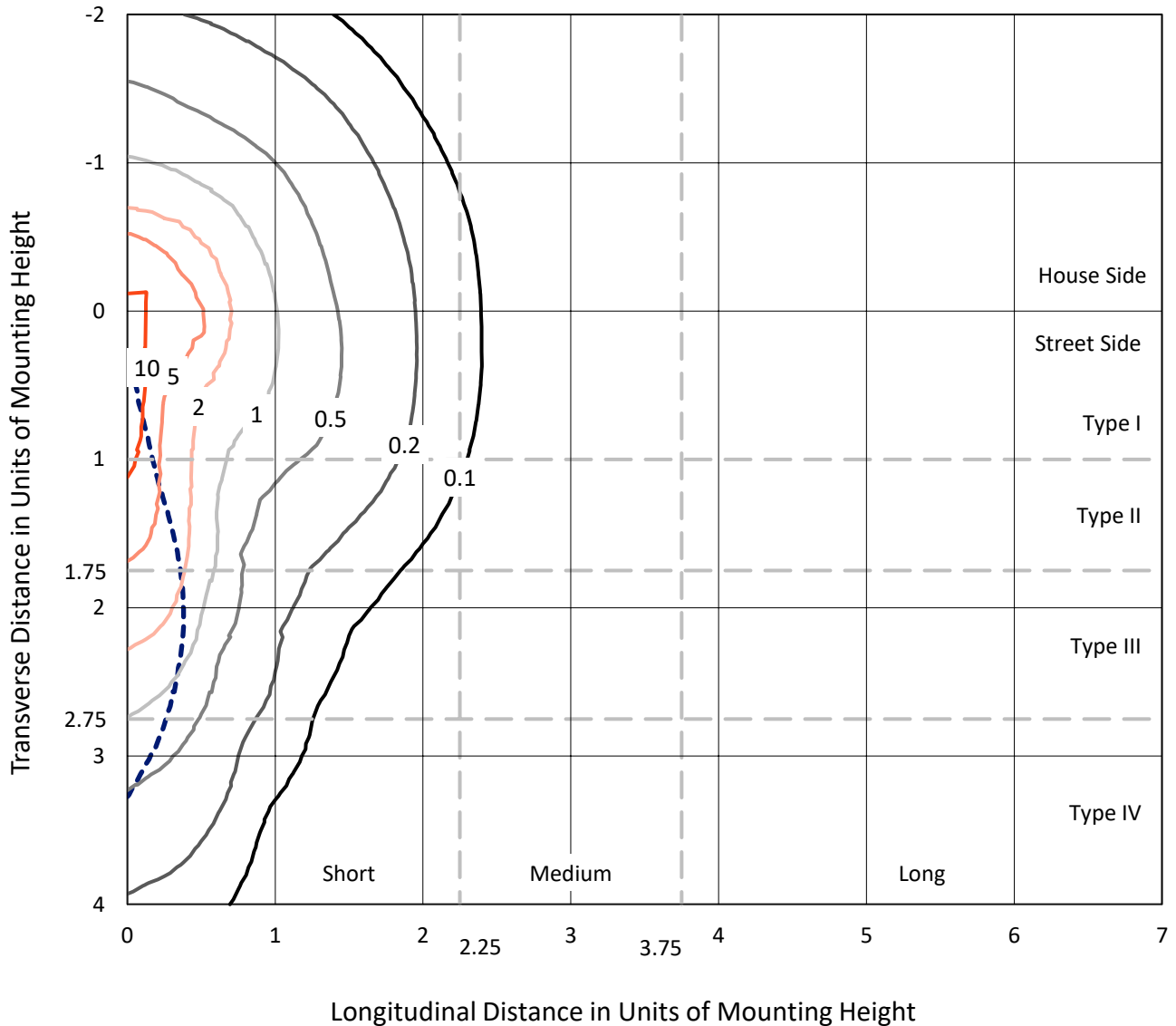
Input Watts (W): 493
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

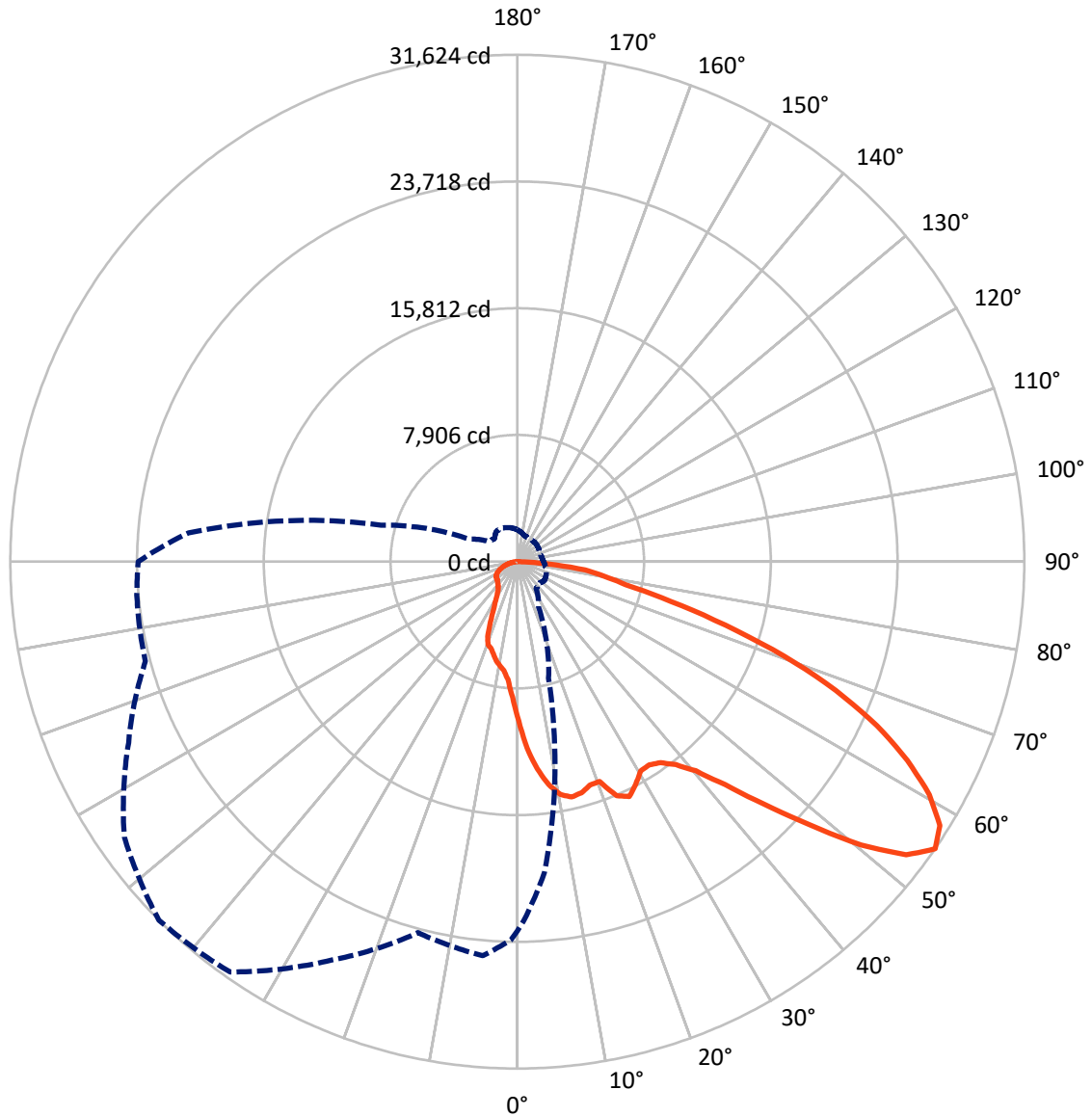
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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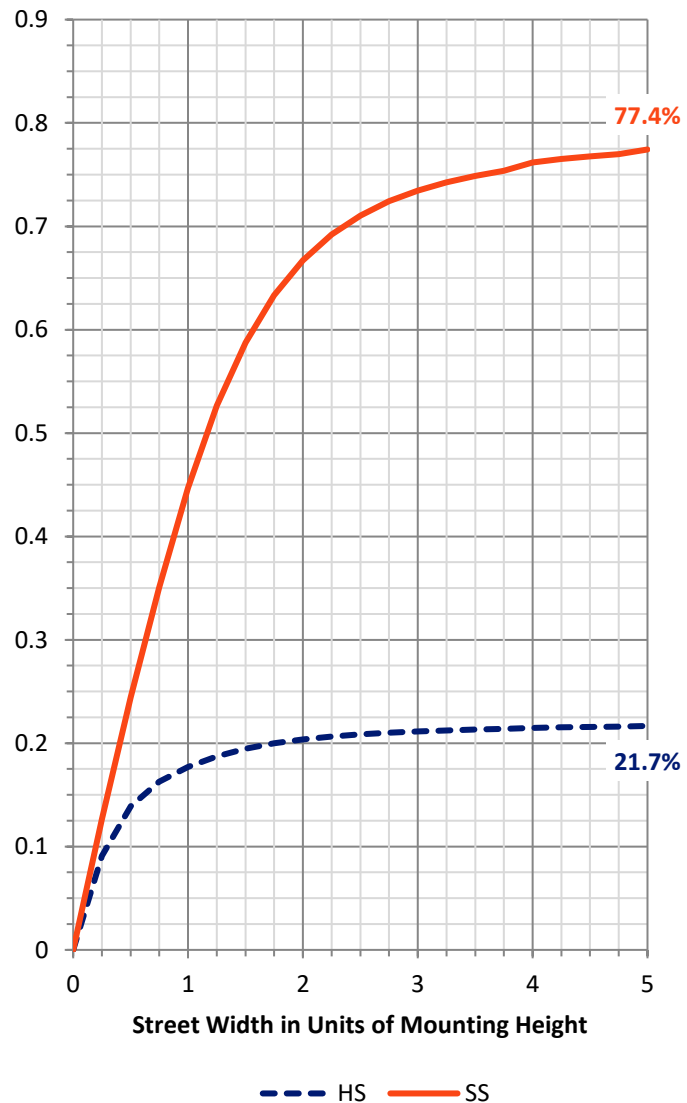
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8658.6 | 0.0 | 8658.6 |
| | % Fixture | 21.9 | 0.0 | 21.9 |
| Street Side | Lumens | 30924.4 | 0.0 | 30924.4 |
| | % Fixture | 78.1 | 0.0 | 78.1 |
| Total | Lumens | 39583.0 | 0.0 | 39583.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 841.9 | 2.1 |
| 10°-20° | 2233.6 | 5.6 |
| 20°-30° | 3858.7 | 9.7 |
| 30°-40° | 4484.4 | 11.3 |
| 40°-50° | 6256.7 | 15.8 |
| 50°-60° | 8489.6 | 21.4 |
| 60°-70° | 8076.9 | 20.4 |
| 70°-80° | 4363.3 | 11.0 |
| 80°-90° | 977.9 | 2.5 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 39583.0 | 100.0 |
| 0°-180° | 39583.0 | 100.0 |



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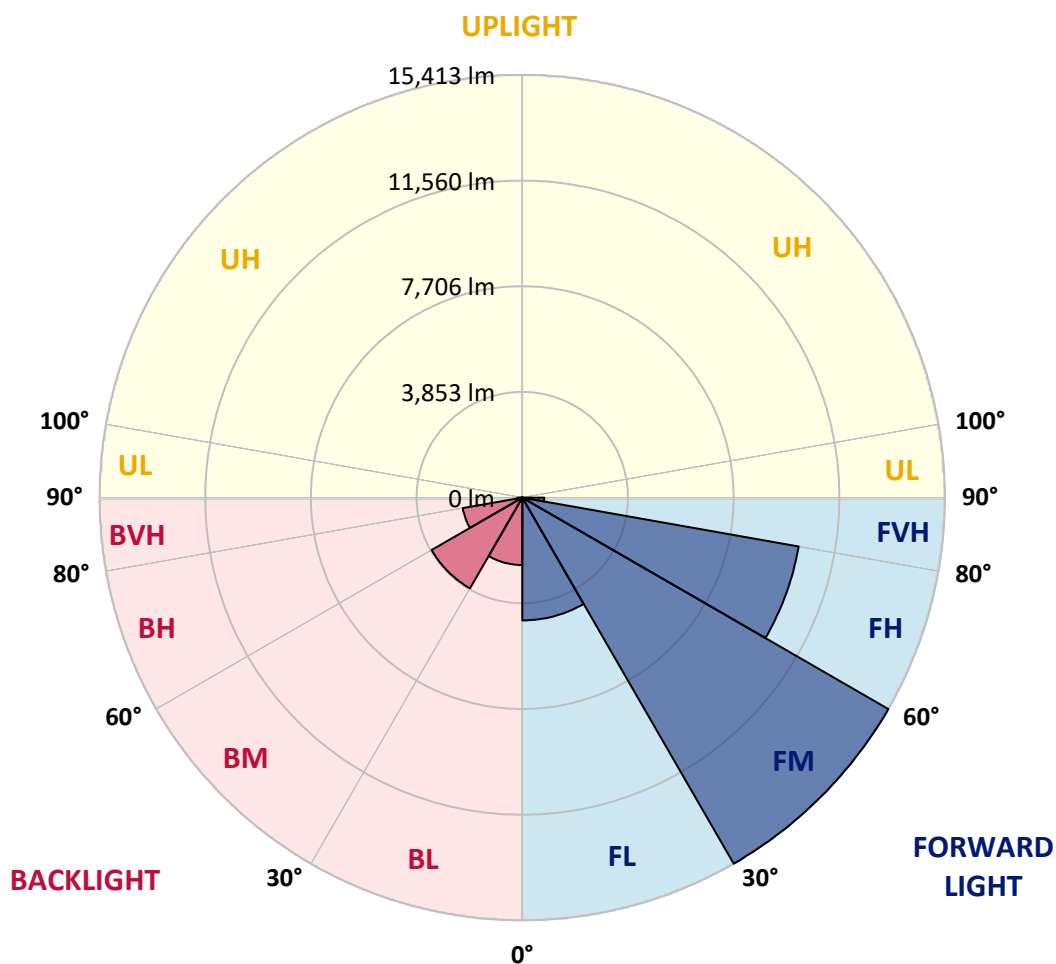
CATALOG NUMBER: GALN-SA8D-722-U-SLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 4476.9 | 11.3 | | | |
| FM | (30°-60°) | 15412.8 | 38.9 | | | |
| FH | (60°-80°) | 10235.5 | 25.9 | | | G4/12000 |
| FVH | (80°-90°) | 799.2 | 2.0 | | | G5 |
| BL | (0°-30°) | 2457.3 | 6.2 | B3/2500 | | |
| BM | (30°-60°) | 3817.9 | 9.6 | B3/5000 | | |
| BH | (60°-80°) | 2204.7 | 5.6 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 178.7 | 0.5 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|
| 0° | 9933.8 | 9933.8 | 9933.8 | 9933.8 | 9933.8 | 9933.8 | 9933.8 | 9933.8 | 9933.8 | 9933.8 | 9933.8 |
| 2.5° | 11035.8 | 10994.0 | 10876.5 | 10568.4 | 10257.6 | 9941.6 | 9698.8 | 9395.8 | 9079.9 | 8910.1 | 8693.4 |
| 5° | 11187.3 | 11140.3 | 10863.4 | 10168.8 | 9539.5 | 8878.8 | 8351.3 | 7889.1 | 7701.0 | 7424.2 | 7202.3 |
| 7.5° | 10832.1 | 10811.2 | 10396.0 | 9398.4 | 8536.7 | 7672.3 | 7074.3 | 6703.5 | 6366.6 | 6241.3 | 6267.4 |
| 10° | 10508.3 | 10424.7 | 9905.1 | 8602.0 | 7596.6 | 6894.1 | 6465.8 | 6102.9 | 5865.2 | 5802.5 | 5815.6 |
| 12.5° | 10239.3 | 10127.0 | 9513.4 | 8066.6 | 7186.6 | 6625.1 | 6079.4 | 5700.7 | 5484.0 | 5544.0 | 5747.7 |
| 15° | 10184.5 | 10033.0 | 9348.8 | 7883.8 | 6962.0 | 6238.6 | 5640.6 | 5204.5 | 5042.6 | 5173.2 | 5499.6 |
| 17.5° | 10539.6 | 10349.0 | 9630.9 | 7943.9 | 6747.9 | 5844.3 | 5110.5 | 4611.7 | 4475.9 | 4684.9 | 5110.5 |
| 20° | 11680.8 | 11398.8 | 10510.9 | 8291.2 | 6727.0 | 5648.5 | 4802.4 | 4301.0 | 4358.4 | 4755.4 | 5199.3 |
| 22.5° | 13790.8 | 13367.8 | 12051.6 | 8797.8 | 6836.7 | 5598.9 | 4739.7 | 4478.6 | 4794.5 | 5131.4 | 5423.9 |
| 25° | 14208.7 | 13877.0 | 12328.4 | 8912.7 | 6813.2 | 5564.9 | 4917.3 | 5047.8 | 5400.4 | 5567.5 | 5465.7 |
| 27.5° | 14443.7 | 14065.0 | 12310.2 | 8343.4 | 6092.4 | 5047.8 | 4700.5 | 4917.3 | 5006.1 | 4844.2 | 4567.3 |
| 30° | 14992.1 | 14597.8 | 12620.9 | 7745.4 | 5016.5 | 3744.8 | 3282.5 | 3193.7 | 3253.8 | 3285.1 | 3185.9 |
| 32.5° | 15746.8 | 15357.7 | 13205.9 | 7353.7 | 4337.5 | 3097.1 | 2642.7 | 2517.4 | 2488.7 | 2454.7 | 2415.6 |
| 35° | 16723.4 | 16125.4 | 13780.4 | 7103.0 | 4058.1 | 2864.7 | 2446.9 | 2350.3 | 2311.1 | 2264.1 | 2222.3 |
| 37.5° | 17715.8 | 17089.0 | 14506.4 | 6839.3 | 3872.7 | 2702.8 | 2316.3 | 2271.9 | 2204.0 | 2154.4 | 2094.3 |
| 40° | 18770.8 | 18068.3 | 15167.0 | 6609.5 | 3692.5 | 2598.3 | 2222.3 | 2217.1 | 2128.3 | 2070.8 | 2000.3 |
| 42.5° | 19684.8 | 18961.4 | 15757.2 | 6468.5 | 3554.1 | 2488.7 | 2164.9 | 2180.5 | 2089.1 | 2002.9 | 1911.5 |
| 45° | 20410.7 | 19700.4 | 16303.0 | 6468.5 | 3441.8 | 2379.0 | 2154.4 | 2144.0 | 2052.6 | 1945.5 | 1841.0 |
| 47.5° | 21047.9 | 20314.1 | 16835.7 | 6633.0 | 3371.3 | 2287.6 | 2097.0 | 2115.2 | 2021.2 | 1885.4 | 1783.6 |
| 50° | 21541.5 | 20893.9 | 17553.9 | 6888.9 | 3300.8 | 2214.5 | 2023.8 | 2123.1 | 1995.1 | 1854.1 | 1736.6 |
| 52.5° | 22170.8 | 21591.1 | 18418.2 | 7238.8 | 3240.8 | 2133.5 | 1958.6 | 2123.1 | 1992.5 | 1856.7 | 1728.8 |
| 55° | 23043.0 | 22432.0 | 19460.2 | 7528.7 | 3144.1 | 2057.8 | 1901.1 | 2063.0 | 1984.7 | 1843.7 | 1707.9 |
| 57.5° | 23654.1 | 23197.1 | 20196.6 | 7721.9 | 3005.7 | 1961.2 | 1848.9 | 2005.6 | 1950.7 | 1794.0 | 1645.2 |
| 58° | 23682.8 | 23236.3 | 20303.7 | 7766.3 | 2971.8 | 1942.9 | 1835.8 | 1979.4 | 1935.1 | 1773.1 | 1624.3 |
| 60° | 23353.8 | 22969.9 | 20324.6 | 7703.6 | 2778.5 | 1851.5 | 1767.9 | 1872.4 | 1851.5 | 1650.4 | 1512.0 |
| 62.5° | 22157.8 | 21747.8 | 19481.1 | 7194.4 | 2522.6 | 1739.2 | 1663.5 | 1728.8 | 1681.7 | 1478.1 | 1350.1 |
| 65° | 20457.8 | 19703.1 | 17747.1 | 6395.3 | 2339.8 | 1619.1 | 1522.4 | 1527.7 | 1478.1 | 1331.8 | 1219.5 |
| 67.5° | 18193.7 | 17350.2 | 15026.0 | 5389.9 | 2201.4 | 1485.9 | 1355.3 | 1342.3 | 1282.2 | 1188.2 | 1096.8 |
| 70° | 15407.3 | 14830.2 | 12210.9 | 4384.5 | 2047.3 | 1339.7 | 1167.3 | 1159.5 | 1122.9 | 1052.4 | 971.4 |
| 72.5° | 12487.7 | 11753.9 | 9860.7 | 3509.7 | 1859.3 | 1198.6 | 992.3 | 1008.0 | 961.0 | 911.4 | 838.3 |
| 75° | 9215.7 | 8735.2 | 7622.7 | 2815.1 | 1606.0 | 1044.6 | 827.8 | 833.0 | 812.1 | 759.9 | 702.5 |
| 77.5° | 6068.9 | 5925.3 | 5452.6 | 1848.9 | 1235.2 | 830.4 | 676.4 | 681.6 | 665.9 | 618.9 | 558.8 |
| 80° | 4084.2 | 3987.6 | 3695.1 | 1190.8 | 825.2 | 600.6 | 522.3 | 527.5 | 524.9 | 475.3 | 394.3 |
| 82.5° | 2517.4 | 2475.6 | 2381.6 | 804.3 | 571.9 | 430.9 | 344.7 | 360.4 | 389.1 | 334.3 | 269.0 |
| 85° | 1188.2 | 1190.8 | 1438.9 | 438.7 | 336.9 | 276.8 | 188.0 | 201.1 | 201.1 | 201.1 | 151.5 |
| 87.5° | 154.1 | 161.9 | 198.5 | 185.4 | 122.7 | 104.5 | 67.9 | 57.5 | 49.6 | 65.3 | 47.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 9933.8 | 9933.8 | 9933.8 | 9933.8 | 9933.8 | 9933.8 | 9933.8 | 9933.8 | 9933.8 | 9933.8 | 9933.8 |
| 2.5° | 8617.6 | 8565.4 | 8453.1 | 8427.0 | 8411.3 | 8455.7 | 8338.2 | 8369.6 | 8317.3 | 8463.6 | 8440.1 |
| 5° | 7215.3 | 7220.5 | 7311.9 | 7372.0 | 7392.9 | 7372.0 | 7293.7 | 7157.9 | 7053.4 | 7011.6 | 7022.1 |
| 7.5° | 6217.8 | 6309.2 | 6465.8 | 6640.8 | 6800.1 | 6847.1 | 6802.7 | 6544.2 | 6262.2 | 6084.6 | 6027.1 |
| 10° | 5886.1 | 6008.8 | 6189.0 | 6327.4 | 6468.5 | 6580.7 | 6604.2 | 6403.2 | 6068.9 | 5648.5 | 5484.0 |
| 12.5° | 5904.4 | 6071.5 | 6243.9 | 6288.3 | 6275.2 | 6319.6 | 6298.7 | 6264.8 | 6045.4 | 5510.1 | 5235.9 |
| 15° | 5732.0 | 5930.5 | 6050.6 | 6027.1 | 5985.3 | 5946.2 | 5891.3 | 5805.2 | 5726.8 | 5350.8 | 5047.8 |
| 17.5° | 5335.1 | 5538.8 | 5638.0 | 5645.9 | 5645.9 | 5635.4 | 5502.2 | 5470.9 | 5460.4 | 5277.7 | 5092.2 |
| 20° | 5408.2 | 5520.5 | 5476.1 | 5403.0 | 5423.9 | 5494.4 | 5416.1 | 5400.4 | 5460.4 | 5541.4 | 5507.5 |
| 22.5° | 5450.0 | 5410.8 | 5076.6 | 4752.8 | 4679.6 | 4899.0 | 4943.4 | 5118.4 | 5361.2 | 5653.7 | 5844.3 |
| 25° | 5191.5 | 4875.5 | 4277.5 | 3911.9 | 3705.6 | 3909.3 | 4175.6 | 4499.5 | 4862.4 | 5238.5 | 5460.4 |
| 27.5° | 4340.2 | 4099.9 | 3671.6 | 3342.6 | 3162.4 | 3193.7 | 3420.9 | 3716.0 | 4052.9 | 4306.2 | 4468.1 |
| 30° | 3269.5 | 3162.4 | 2940.4 | 2828.2 | 2718.5 | 2692.4 | 2789.0 | 2901.3 | 3050.1 | 3081.5 | 3123.2 |
| 32.5° | 2407.7 | 2392.0 | 2405.1 | 2368.5 | 2347.7 | 2345.0 | 2316.3 | 2342.4 | 2358.1 | 2376.4 | 2339.8 |
| 35° | 2177.9 | 2157.0 | 2120.5 | 2110.0 | 2097.0 | 2102.2 | 2089.1 | 2076.1 | 2086.5 | 2102.2 | 2112.6 |
| 37.5° | 2060.4 | 2029.1 | 1976.8 | 1958.6 | 1958.6 | 1966.4 | 1945.5 | 1940.3 | 1958.6 | 2008.2 | 2034.3 |
| 40° | 1969.0 | 1932.4 | 1872.4 | 1848.9 | 1864.5 | 1885.4 | 1856.7 | 1846.3 | 1890.7 | 1942.9 | 1984.7 |
| 42.5° | 1882.8 | 1854.1 | 1796.6 | 1770.5 | 1783.6 | 1822.8 | 1781.0 | 1773.1 | 1830.6 | 1888.0 | 1937.7 |
| 45° | 1809.7 | 1781.0 | 1728.8 | 1715.7 | 1720.9 | 1757.5 | 1728.8 | 1728.8 | 1783.6 | 1846.3 | 1890.7 |
| 47.5° | 1752.3 | 1715.7 | 1681.7 | 1671.3 | 1676.5 | 1697.4 | 1692.2 | 1692.2 | 1744.4 | 1809.7 | 1854.1 |
| 50° | 1694.8 | 1663.5 | 1619.1 | 1624.3 | 1637.4 | 1666.1 | 1663.5 | 1671.3 | 1723.5 | 1804.5 | 1851.5 |
| 52.5° | 1668.7 | 1621.7 | 1572.1 | 1577.3 | 1616.5 | 1650.4 | 1640.0 | 1647.8 | 1707.9 | 1859.3 | 1927.2 |
| 55° | 1640.0 | 1577.3 | 1519.8 | 1527.7 | 1572.1 | 1621.7 | 1608.6 | 1619.1 | 1689.6 | 1895.9 | 1989.9 |
| 57.5° | 1585.1 | 1512.0 | 1449.3 | 1454.6 | 1519.8 | 1572.1 | 1551.2 | 1564.2 | 1647.8 | 1856.7 | 1955.9 |
| 58° | 1561.6 | 1498.9 | 1438.9 | 1441.5 | 1504.2 | 1561.6 | 1538.1 | 1548.6 | 1634.7 | 1846.3 | 1940.3 |
| 60° | 1462.4 | 1425.8 | 1373.6 | 1376.2 | 1436.3 | 1485.9 | 1472.8 | 1483.3 | 1566.8 | 1770.5 | 1841.0 |
| 62.5° | 1326.6 | 1305.7 | 1292.6 | 1292.6 | 1329.2 | 1376.2 | 1389.3 | 1402.3 | 1478.1 | 1600.8 | 1663.5 |
| 65° | 1180.4 | 1180.4 | 1183.0 | 1183.0 | 1206.5 | 1266.5 | 1274.4 | 1308.3 | 1378.8 | 1438.9 | 1485.9 |
| 67.5° | 1081.1 | 1075.9 | 1081.1 | 1068.1 | 1078.5 | 1115.1 | 1154.2 | 1185.6 | 1258.7 | 1300.5 | 1316.1 |
| 70° | 953.2 | 950.6 | 953.2 | 934.9 | 947.9 | 979.3 | 1005.4 | 1057.6 | 1133.4 | 1164.7 | 1172.5 |
| 72.5° | 827.8 | 827.8 | 833.0 | 820.0 | 820.0 | 853.9 | 872.2 | 929.7 | 1000.2 | 1018.4 | 1021.1 |
| 75° | 697.2 | 705.1 | 705.1 | 686.8 | 692.0 | 712.9 | 736.4 | 783.4 | 848.7 | 861.8 | 861.8 |
| 77.5° | 553.6 | 582.3 | 582.3 | 564.1 | 571.9 | 574.5 | 605.8 | 629.3 | 679.0 | 684.2 | 663.3 |
| 80° | 402.2 | 430.9 | 454.4 | 438.7 | 451.8 | 436.1 | 454.4 | 470.1 | 519.7 | 496.2 | 462.2 |
| 82.5° | 287.3 | 308.1 | 326.4 | 329.0 | 316.0 | 287.3 | 310.8 | 313.4 | 336.9 | 305.5 | 287.3 |
| 85° | 159.3 | 177.6 | 201.1 | 190.6 | 169.7 | 151.5 | 159.3 | 164.5 | 161.9 | 154.1 | 143.6 |
| 87.5° | 41.8 | 44.4 | 49.6 | 36.6 | 33.9 | 28.7 | 39.2 | 39.2 | 44.4 | 47.0 | 44.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0° | 9933.8 | 9933.8 | 9933.8 | 9933.8 | 9933.8 | 9933.8 | 9933.8 | 9933.8 | 9933.8 | 9933.8 | 9933.8 |
| 2.5° | 8458.3 | 8573.2 | 8821.3 | 9009.3 | 9239.2 | 9518.6 | 9847.6 | 10179.3 | 10537.0 | 10649.3 | 10806.0 |
| 5° | 6998.6 | 7285.8 | 7405.9 | 7748.0 | 8087.5 | 8596.7 | 9139.9 | 9769.3 | 10458.7 | 10790.3 | 11108.9 |
| 7.5° | 5980.1 | 6134.2 | 6259.5 | 6510.2 | 6917.6 | 7536.5 | 8218.1 | 9004.1 | 9980.8 | 10463.9 | 10931.3 |
| 10° | 5431.7 | 5447.4 | 5601.5 | 5912.2 | 6267.4 | 6813.2 | 7458.2 | 8338.2 | 9427.2 | 10014.7 | 10563.1 |
| 12.5° | 5068.7 | 5000.8 | 5168.0 | 5491.8 | 5893.9 | 6397.9 | 6990.7 | 7829.0 | 9027.6 | 9630.9 | 10294.2 |
| 15° | 4750.1 | 4643.1 | 4768.4 | 5100.1 | 5497.0 | 6089.8 | 6727.0 | 7614.9 | 8870.9 | 9573.4 | 10309.8 |
| 17.5° | 4758.0 | 4462.9 | 4507.3 | 4786.7 | 5181.0 | 5784.3 | 6557.2 | 7607.0 | 9108.6 | 9918.1 | 10790.3 |
| 20° | 5345.5 | 4872.9 | 4671.8 | 4724.0 | 5105.3 | 5763.4 | 6635.6 | 7972.6 | 9889.4 | 11069.7 | 12002.0 |
| 22.5° | 5922.7 | 5638.0 | 5314.2 | 5207.1 | 5416.1 | 6105.5 | 7134.4 | 8837.0 | 11586.8 | 13365.2 | 15049.5 |
| 25° | 5721.6 | 5964.5 | 5883.5 | 5732.0 | 5779.0 | 6350.9 | 7473.8 | 9547.3 | 12905.6 | 14908.5 | 16491.0 |
| 27.5° | 4577.8 | 5019.1 | 5107.9 | 5105.3 | 5123.6 | 5593.6 | 6721.8 | 9069.4 | 13070.1 | 15203.6 | 16715.6 |
| 30° | 3217.3 | 3256.4 | 3303.4 | 3394.8 | 3478.4 | 3898.8 | 5259.4 | 7962.2 | 12997.0 | 15336.8 | 16851.4 |
| 32.5° | 2321.5 | 2373.8 | 2439.1 | 2564.4 | 2762.9 | 3298.2 | 4601.3 | 7609.6 | 13383.5 | 15887.8 | 17248.3 |
| 35° | 2123.1 | 2183.1 | 2245.8 | 2389.4 | 2577.5 | 3073.6 | 4340.2 | 7463.4 | 14018.0 | 16780.9 | 17961.2 |
| 37.5° | 2060.4 | 2128.3 | 2183.1 | 2287.6 | 2439.1 | 2911.7 | 4102.5 | 7364.2 | 14668.3 | 17726.2 | 18917.0 |
| 40° | 2016.0 | 2094.3 | 2138.7 | 2222.3 | 2326.8 | 2762.9 | 3891.0 | 7285.8 | 15297.6 | 18590.6 | 19684.8 |
| 42.5° | 1976.8 | 2057.8 | 2115.2 | 2175.3 | 2261.5 | 2629.7 | 3703.0 | 7207.5 | 15843.4 | 19428.9 | 20449.9 |
| 45° | 1929.8 | 2031.7 | 2104.8 | 2151.8 | 2227.5 | 2517.4 | 3559.3 | 7144.8 | 16464.9 | 20173.1 | 21222.9 |
| 47.5° | 1890.7 | 2002.9 | 2094.3 | 2149.2 | 2177.9 | 2439.1 | 3444.4 | 7231.0 | 17211.8 | 20951.3 | 21941.0 |
| 50° | 1893.3 | 2000.3 | 2115.2 | 2201.4 | 2125.7 | 2373.8 | 3373.9 | 7573.1 | 18183.2 | 21875.7 | 22507.7 |
| 52.5° | 1976.8 | 2107.4 | 2198.8 | 2219.7 | 2052.6 | 2295.4 | 3337.4 | 8171.1 | 19332.2 | 22693.1 | 23079.6 |
| 55° | 2070.8 | 2206.6 | 2305.9 | 2292.8 | 2013.4 | 2196.2 | 3329.5 | 8808.3 | 20590.9 | 23646.3 | 23823.9 |
| 57.5° | 2036.9 | 2235.4 | 2386.8 | 2318.9 | 2016.0 | 2099.6 | 3295.6 | 9322.7 | 21643.3 | 24359.2 | 24560.3 |
| 58° | 2026.5 | 2224.9 | 2397.3 | 2313.7 | 2008.2 | 2070.8 | 3287.8 | 9367.1 | 21789.6 | 24408.8 | 24664.7 |
| 60° | 1924.6 | 2133.5 | 2389.4 | 2274.5 | 1963.8 | 1992.5 | 3201.6 | 9510.7 | 21750.4 | 24152.9 | 24727.4 |
| 62.5° | 1739.2 | 1911.5 | 2209.2 | 2083.9 | 1828.0 | 1888.0 | 3008.3 | 9333.2 | 20690.2 | 22920.3 | 23810.8 |
| 65° | 1530.3 | 1658.2 | 1856.7 | 1833.2 | 1634.7 | 1781.0 | 2744.6 | 8630.7 | 18567.1 | 20920.0 | 21857.5 |
| 67.5° | 1373.6 | 1478.1 | 1603.4 | 1569.5 | 1470.2 | 1637.4 | 2459.9 | 7442.5 | 16185.5 | 18517.5 | 19697.8 |
| 70° | 1214.3 | 1295.3 | 1357.9 | 1334.4 | 1303.1 | 1496.3 | 2206.6 | 6040.2 | 13903.1 | 16235.1 | 17378.9 |
| 72.5° | 1052.4 | 1128.1 | 1180.4 | 1146.4 | 1128.1 | 1347.5 | 2000.3 | 4687.5 | 10981.0 | 13393.9 | 14864.1 |
| 75° | 880.0 | 955.8 | 992.3 | 953.2 | 942.7 | 1188.2 | 1694.8 | 3501.9 | 8239.0 | 10325.5 | 11594.6 |
| 77.5° | 681.6 | 762.5 | 809.5 | 796.5 | 801.7 | 976.7 | 1368.4 | 2397.3 | 5891.3 | 7037.7 | 8374.8 |
| 80° | 477.9 | 566.7 | 598.0 | 585.0 | 621.5 | 744.3 | 966.2 | 1522.4 | 4063.3 | 4567.3 | 5510.1 |
| 82.5° | 295.1 | 378.7 | 383.9 | 396.9 | 423.0 | 551.0 | 728.6 | 927.0 | 2551.3 | 2637.5 | 3321.7 |
| 85° | 148.9 | 180.2 | 193.2 | 214.1 | 237.6 | 336.9 | 415.2 | 574.5 | 1642.6 | 1243.0 | 1856.7 |
| 87.5° | 49.6 | 52.2 | 62.7 | 78.3 | 96.6 | 138.4 | 177.6 | 235.0 | 407.4 | 224.6 | 574.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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| 0° | 9933.8 | 9933.8 | 9933.8 | 9933.8 | 9933.8 | 9933.8 | 9933.8 | 9933.8 | 9933.8 | 9933.8 |
| 2.5° | 11122.0 | 11343.9 | 11505.9 | 11654.7 | 11511.1 | 11498.0 | 11357.0 | 11129.8 | 11035.8 | 11035.8 |
| 5° | 11777.4 | 12297.1 | 12717.5 | 12986.5 | 12871.6 | 12594.8 | 12137.8 | 11555.5 | 11242.1 | 11187.3 |
| 7.5° | 11957.6 | 12983.9 | 13764.7 | 14041.5 | 13848.3 | 13237.2 | 12362.4 | 11380.5 | 10931.3 | 10832.1 |
| 10° | 11847.9 | 13182.4 | 14328.8 | 14767.5 | 14498.5 | 13574.1 | 12380.7 | 11176.8 | 10623.2 | 10508.3 |
| 12.5° | 11733.0 | 13208.5 | 14433.2 | 15067.8 | 14892.8 | 13845.7 | 12513.9 | 11043.6 | 10403.8 | 10239.3 |
| 15° | 11816.6 | 13218.9 | 14305.3 | 14960.7 | 15073.0 | 14172.1 | 12733.2 | 11140.3 | 10359.4 | 10184.5 |
| 17.5° | 12344.1 | 13417.4 | 14122.5 | 14652.6 | 15046.9 | 14616.0 | 13357.3 | 11602.5 | 10756.4 | 10539.6 |
| 20° | 13446.1 | 13892.7 | 14226.9 | 14636.9 | 15271.5 | 15522.2 | 14634.3 | 12871.6 | 11871.4 | 11680.8 |
| 22.5° | 16637.3 | 16556.3 | 15872.1 | 15864.3 | 16783.5 | 17788.9 | 17728.8 | 15451.7 | 13947.5 | 13790.8 |
| 25° | 17833.3 | 17457.2 | 16467.5 | 16227.3 | 16632.0 | 18183.2 | 17958.6 | 15979.2 | 14589.9 | 14208.7 |
| 27.5° | 17365.8 | 16433.6 | 15783.3 | 15728.5 | 15595.3 | 17060.3 | 17600.9 | 16193.3 | 14814.5 | 14443.7 |
| 30° | 17337.1 | 15966.1 | 15036.5 | 15146.2 | 15274.1 | 16673.8 | 17799.3 | 16864.5 | 15389.0 | 14992.1 |
| 32.5° | 17407.6 | 16031.4 | 15091.3 | 15112.2 | 15493.5 | 16731.3 | 18018.7 | 17595.7 | 16143.7 | 15746.8 |
| 35° | 17692.3 | 16402.2 | 15441.2 | 15391.6 | 15987.0 | 17107.3 | 18392.1 | 18744.7 | 17175.2 | 16723.4 |
| 37.5° | 18151.9 | 17141.3 | 16081.0 | 16068.0 | 16932.4 | 17786.3 | 18857.0 | 19904.1 | 18201.5 | 17715.8 |
| 40° | 18828.2 | 18005.6 | 17219.6 | 17149.1 | 18217.2 | 18890.9 | 19460.2 | 21139.3 | 19394.9 | 18770.8 |
| 42.5° | 19645.6 | 19042.4 | 18721.2 | 19000.6 | 20026.9 | 20131.3 | 20400.3 | 22280.5 | 20410.7 | 19684.8 |
| 45° | 20402.9 | 20374.2 | 20820.7 | 21562.4 | 22160.4 | 21533.7 | 21382.2 | 23045.7 | 21199.4 | 20410.7 |
| 47.5° | 21303.8 | 22082.0 | 23429.5 | 24515.9 | 25142.6 | 23165.8 | 22220.4 | 23544.4 | 21773.9 | 21047.9 |
| 50° | 22217.8 | 24126.8 | 26278.6 | 27793.2 | 27926.4 | 24938.9 | 22797.6 | 24014.5 | 22296.2 | 21541.5 |
| 52.5° | 23178.8 | 25758.9 | 28623.6 | 30383.7 | 30125.2 | 26482.3 | 23356.4 | 24333.1 | 22834.1 | 22170.8 |
| 55° | 24014.5 | 26759.1 | 29934.5 | 31624.1 | 31245.5 | 27422.4 | 23959.6 | 24677.8 | 23601.9 | 23043.0 |
| 57.5° | 24481.9 | 26842.6 | 29608.1 | 31083.6 | 30673.6 | 27239.6 | 24236.5 | 24933.7 | 24092.8 | 23654.1 |
| 58° | 24549.8 | 26730.3 | 29318.3 | 30770.2 | 30352.4 | 27085.5 | 24233.8 | 24923.3 | 24124.2 | 23682.8 |
| 60° | 24489.8 | 26001.8 | 28239.7 | 29532.4 | 29093.7 | 26119.3 | 24134.6 | 24727.4 | 23727.2 | 23353.8 |
| 62.5° | 23933.5 | 24737.8 | 26377.8 | 27317.9 | 27192.6 | 24609.9 | 23727.2 | 23988.4 | 22518.2 | 22157.8 |
| 65° | 23202.3 | 23014.3 | 23993.6 | 24659.5 | 24753.5 | 23479.1 | 23322.5 | 22390.2 | 20967.0 | 20457.8 |
| 67.5° | 22314.5 | 21061.0 | 21058.4 | 21437.0 | 21593.7 | 21740.0 | 22479.0 | 20653.6 | 18731.6 | 18193.7 |
| 70° | 20807.7 | 18050.0 | 17219.6 | 17666.2 | 17535.6 | 18770.8 | 20972.2 | 18214.6 | 16036.6 | 15407.3 |
| 72.5° | 18044.8 | 14323.6 | 12994.4 | 13568.9 | 13239.8 | 14720.5 | 18350.3 | 14989.5 | 13260.7 | 12487.7 |
| 75° | 14626.5 | 10714.6 | 9343.6 | 9871.1 | 9667.4 | 11166.4 | 15268.9 | 10886.9 | 9510.7 | 9215.7 |
| 77.5° | 11357.0 | 7763.7 | 6967.2 | 6894.1 | 7045.6 | 8309.5 | 11200.3 | 7351.1 | 6270.0 | 6068.9 |
| 80° | 7296.3 | 5557.1 | 5604.1 | 5510.1 | 5588.4 | 5238.5 | 6800.1 | 4690.1 | 4246.1 | 4084.2 |
| 82.5° | 4802.4 | 3872.7 | 4617.0 | 4261.8 | 4047.7 | 3522.8 | 4460.3 | 3071.0 | 2606.2 | 2517.4 |
| 85° | 3272.1 | 2851.7 | 2595.7 | 1984.7 | 2337.2 | 2713.3 | 3345.2 | 1653.0 | 1310.9 | 1188.2 |
| 87.5° | 1478.1 | 992.3 | 728.6 | 449.2 | 710.3 | 820.0 | 1624.3 | 193.2 | 148.9 | 154.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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