

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: P385944

Luminaire Tested: **GWC-SA1C-735-U-SLR-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P385944  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GWC-SA1C-735-U-SLR-HSS  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5261.6 lumens  
Efficiency: N/A  
Efficacy: 89.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

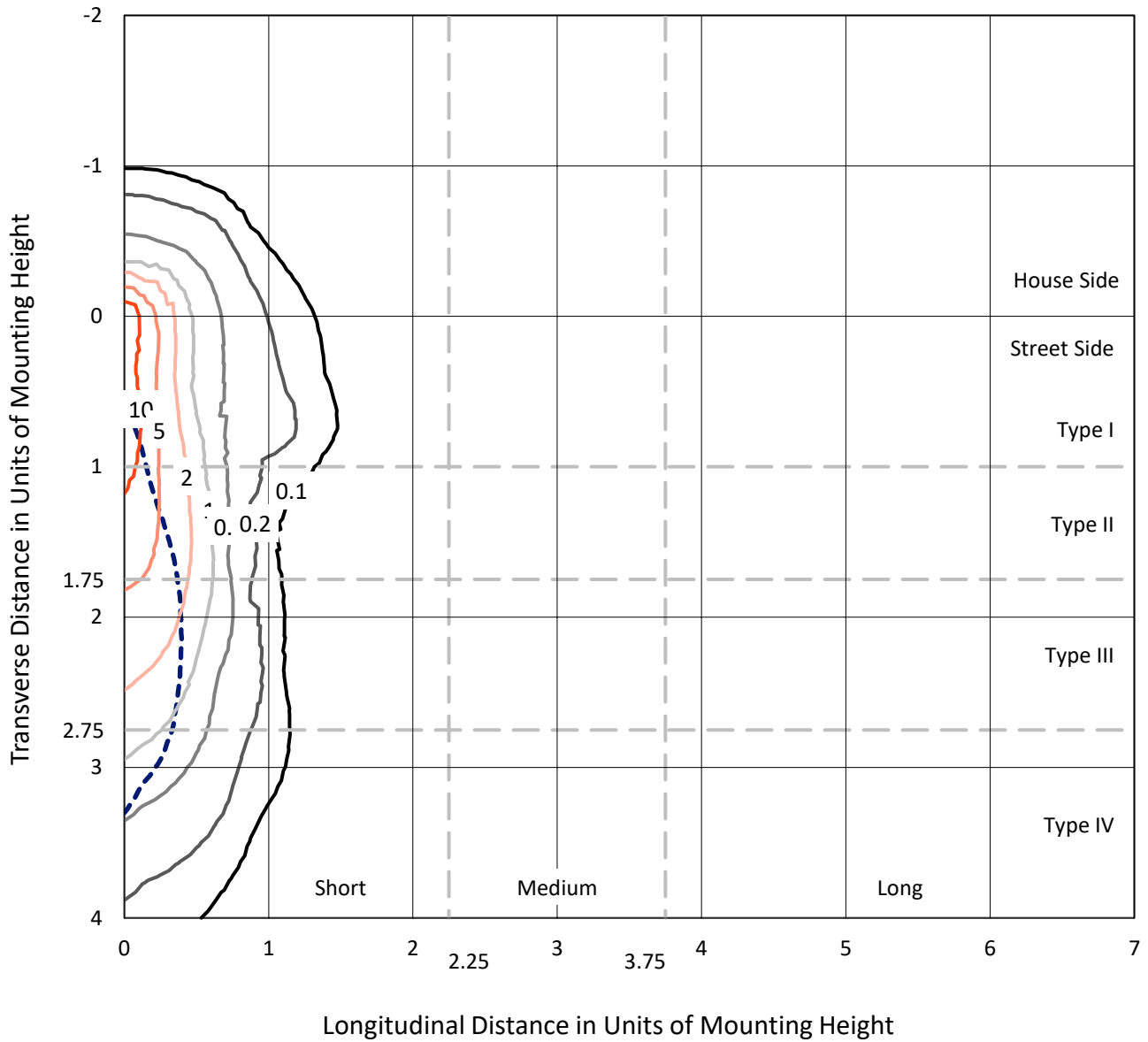
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

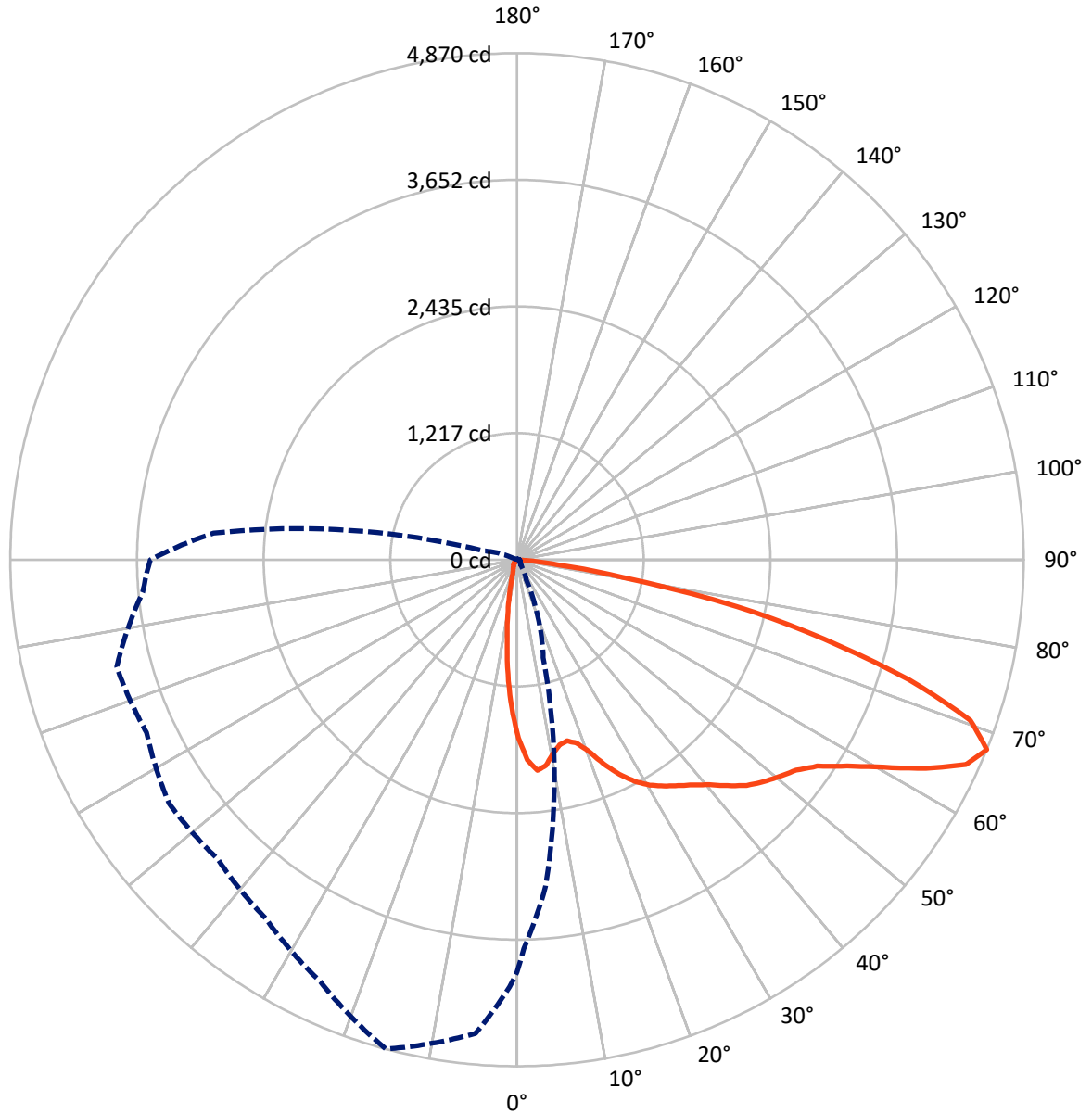
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.1 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 345-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical



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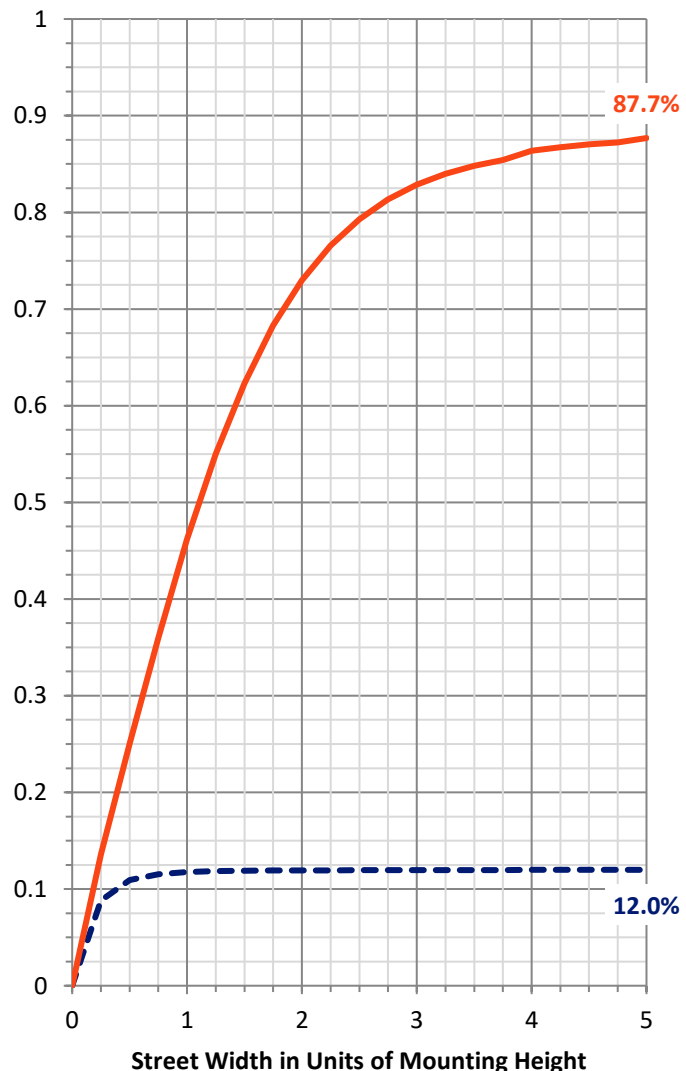
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 636.8    | 0.0    | 636.8  |
|                    | % Fixture | 12.1     | 0.0    | 12.1   |
| <b>Street Side</b> | Lumens    | 4624.7   | 0.0    | 4624.7 |
|                    | % Fixture | 87.9     | 0.0    | 87.9   |
| <b>Total</b>       | Lumens    | 5261.6   | 0.0    | 5261.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 131.5  | 2.5       |
| 10°-20°   | 261.8  | 5.0       |
| 20°-30°   | 371.8  | 7.1       |
| 30°-40°   | 549.2  | 10.4      |
| 40°-50°   | 792.0  | 15.1      |
| 50°-60°   | 1111.8 | 21.1      |
| 60°-70°   | 1296.1 | 24.6      |
| 70°-80°   | 662.6  | 12.6      |
| 80°-90°   | 84.6   | 1.6       |
| 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°    | 5261.6 | 100.0     |
| 0°-180°   | 5261.6 | 100.0     |



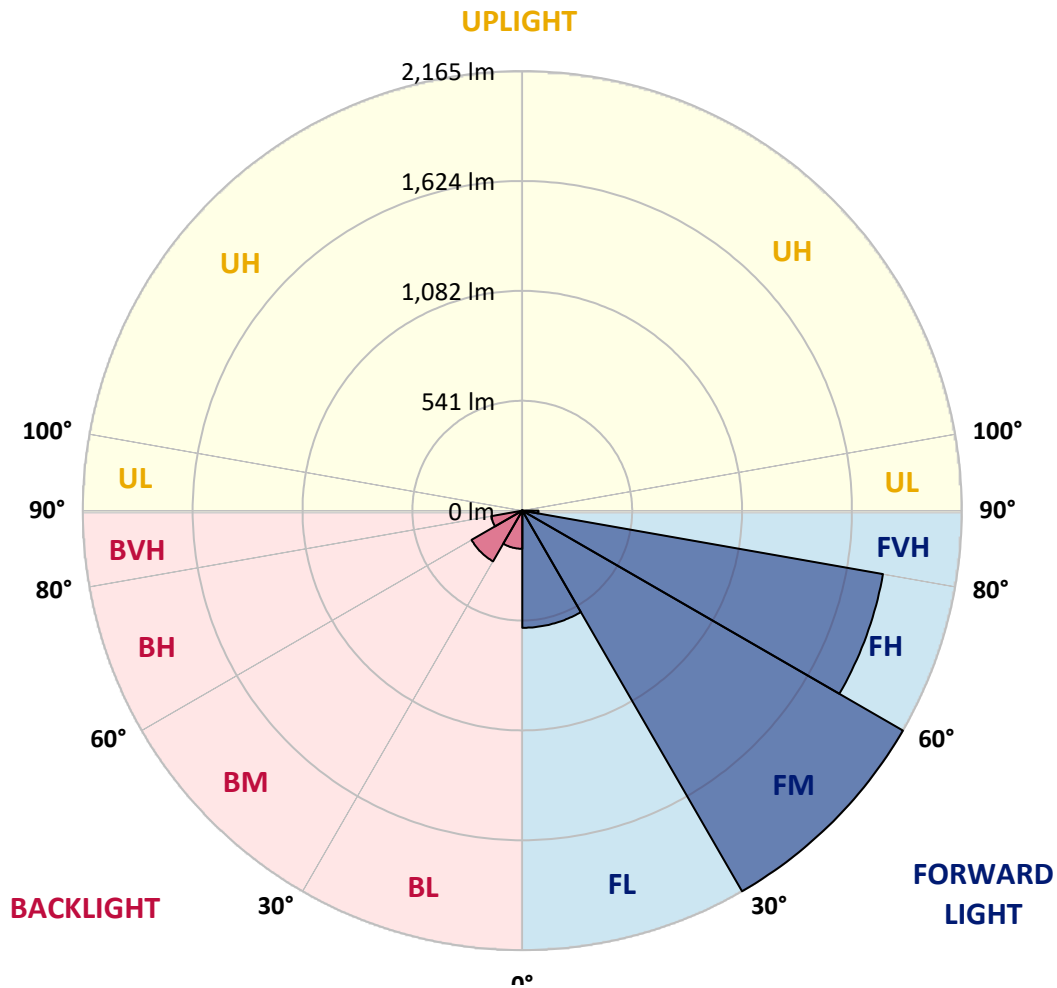
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 577.1  | 11.0      |                         |      |         |
| FM (30°-60°)   | 2164.7 | 41.1      |                         |      |         |
| FH (60°-80°)   | 1803.5 | 34.3      |                         |      | G2/5000 |
| FVH (80°-90°)  | 79.5   | 1.5       |                         |      | G1/100  |
| BL (0°-30°)    | 188.1  | 3.6       | B1/500                  |      |         |
| BM (30°-60°)   | 288.4  | 5.5       | B1/1000                 |      |         |
| BH (60°-80°)   | 155.2  | 2.9       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 5.1    | 0.1       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 1°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1713.9 | 1713.9 | 1713.9 | 1713.9 | 1713.9 | 1713.9 | 1713.9 | 1713.9 | 1713.9 | 1713.9 | 1713.9 |
| 2.5°  | 1876.7 | 1862.3 | 1846.3 | 1794.2 | 1745.9 | 1690.5 | 1645.3 | 1614.0 | 1574.6 | 1523.5 | 1510.5 |
| 5°    | 1863.3 | 1847.8 | 1797.7 | 1681.8 | 1580.3 | 1481.6 | 1386.5 | 1330.6 | 1261.2 | 1191.0 | 1173.5 |
| 7.5°  | 1727.9 | 1711.7 | 1639.4 | 1480.7 | 1344.0 | 1201.5 | 1077.9 | 1001.3 | 923.0  | 858.7  | 824.6  |
| 10°   | 1587.1 | 1569.4 | 1488.1 | 1295.4 | 1127.2 | 998.3  | 907.5  | 834.6  | 760.5  | 691.7  | 636.9  |
| 12.5° | 1490.1 | 1467.0 | 1378.7 | 1160.3 | 1013.8 | 926.2  | 841.5  | 754.1  | 653.8  | 580.1  | 519.7  |
| 15°   | 1449.5 | 1423.1 | 1329.8 | 1108.2 | 973.6  | 870.9  | 760.5  | 653.1  | 535.6  | 451.2  | 395.9  |
| 17.5° | 1480.9 | 1446.5 | 1346.5 | 1104.7 | 923.2  | 783.5  | 643.9  | 517.7  | 390.3  | 304.8  | 265.5  |
| 20°   | 1587.6 | 1542.5 | 1415.6 | 1103.7 | 862.2  | 679.5  | 502.5  | 360.0  | 257.2  | 206.9  | 186.2  |
| 22.5° | 1755.5 | 1696.0 | 1514.8 | 1111.7 | 799.1  | 570.3  | 362.9  | 244.5  | 193.1  | 167.0  | 154.8  |
| 25°   | 1958.4 | 1889.4 | 1657.6 | 1139.9 | 743.8  | 464.2  | 263.7  | 193.1  | 163.0  | 143.8  | 133.6  |
| 27.5° | 2151.4 | 2095.3 | 1838.1 | 1180.5 | 701.0  | 378.4  | 214.1  | 163.7  | 139.3  | 126.6  | 118.4  |
| 30°   | 2344.1 | 2273.5 | 2023.3 | 1228.9 | 649.3  | 320.3  | 188.2  | 149.3  | 124.8  | 111.4  | 106.2  |
| 32.5° | 2484.1 | 2425.6 | 2168.3 | 1263.8 | 594.3  | 282.4  | 168.2  | 136.6  | 116.7  | 103.0  | 95.3   |
| 35°   | 2648.9 | 2582.6 | 2292.7 | 1271.5 | 558.8  | 258.5  | 151.3  | 122.9  | 101.2  | 89.0   | 80.8   |
| 37.5° | 2826.9 | 2744.4 | 2436.3 | 1254.6 | 531.2  | 246.8  | 138.6  | 116.7  | 94.5   | 82.0   | 73.3   |
| 40°   | 3023.8 | 2930.6 | 2574.1 | 1230.1 | 504.0  | 242.7  | 128.9  | 111.9  | 89.2   | 76.6   | 67.5   |
| 42.5° | 3231.2 | 3121.3 | 2693.5 | 1204.4 | 486.8  | 229.1  | 127.9  | 107.2  | 85.2   | 71.6   | 62.6   |
| 45°   | 3405.4 | 3294.0 | 2816.2 | 1195.9 | 474.6  | 214.1  | 132.1  | 103.9  | 82.5   | 67.5   | 58.8   |
| 47.5° | 3544.2 | 3438.8 | 2941.8 | 1214.9 | 467.6  | 200.4  | 120.4  | 108.2  | 81.0   | 64.1   | 55.6   |
| 50°   | 3710.0 | 3590.6 | 3118.8 | 1271.5 | 457.4  | 186.7  | 109.0  | 123.9  | 81.0   | 61.8   | 52.9   |
| 52.5° | 3917.9 | 3799.8 | 3316.2 | 1359.2 | 437.0  | 167.8  | 98.0   | 124.1  | 81.7   | 58.8   | 49.3   |
| 55°   | 4179.4 | 4093.7 | 3598.2 | 1455.5 | 404.3  | 139.9  | 84.7   | 106.7  | 78.7   | 53.4   | 46.1   |
| 57.5° | 4430.2 | 4360.1 | 3855.1 | 1521.3 | 360.7  | 109.2  | 73.7   | 86.0   | 72.1   | 46.9   | 41.1   |
| 59°   | 4498.8 | 4422.2 | 3949.3 | 1524.3 | 328.0  | 95.3   | 68.3   | 71.0   | 70.5   | 43.9   | 38.1   |
| 60°   | 4498.8 | 4417.5 | 3976.5 | 1508.3 | 304.4  | 87.5   | 64.8   | 63.3   | 73.6   | 41.9   | 36.4   |
| 62.5° | 4417.2 | 4303.1 | 3888.2 | 1400.4 | 248.3  | 74.5   | 56.6   | 52.3   | 66.0   | 37.7   | 32.1   |
| 65°   | 4247.8 | 4081.5 | 3587.6 | 1205.1 | 221.3  | 68.3   | 48.8   | 42.8   | 45.8   | 33.2   | 28.2   |
| 67.5° | 3965.1 | 3739.7 | 3154.2 | 973.6  | 210.6  | 66.5   | 42.1   | 36.4   | 34.7   | 28.4   | 24.7   |
| 70°   | 3467.3 | 3217.2 | 2628.0 | 765.5  | 201.4  | 65.9   | 35.4   | 30.6   | 27.9   | 24.0   | 20.9   |
| 72.5° | 2523.6 | 2262.8 | 1865.7 | 598.5  | 196.0  | 67.3   | 28.4   | 25.6   | 22.9   | 18.7   | 16.2   |
| 75°   | 1443.5 | 1272.8 | 1048.6 | 395.3  | 167.0  | 64.3   | 22.0   | 21.4   | 16.4   | 13.4   | 11.2   |
| 77.5° | 745.8  | 723.1  | 628.4  | 151.8  | 80.0   | 28.2   | 14.5   | 12.5   | 9.7    | 8.3    | 6.8    |
| 80°   | 321.8  | 318.3  | 275.4  | 43.9   | 21.2   | 15.7   | 8.3    | 5.3    | 4.5    | 3.5    | 2.7    |
| 82.5° | 111.1  | 111.1  | 98.0   | 14.7   | 9.5    | 7.7    | 1.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 22.5   | 25.2   | 17.7   | 0.0    | 3.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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°    | 1713.9 | 1713.9 | 1713.9 | 1713.9 | 1713.9 | 1713.9 | 1713.9 | 1713.9 | 1713.9 | 1713.9 | 1713.9 |
| 2.5°  | 1494.9 | 1464.7 | 1462.6 | 1443.8 | 1420.1 | 1409.4 | 1403.1 | 1414.1 | 1427.5 | 1429.0 | 1449.2 |
| 5°    | 1160.3 | 1128.7 | 1141.8 | 1108.2 | 1115.0 | 1108.2 | 1097.3 | 1099.3 | 1105.2 | 1086.5 | 1109.7 |
| 7.5°  | 814.8  | 790.9  | 806.1  | 797.2  | 809.1  | 813.9  | 807.1  | 797.2  | 767.8  | 764.2  | 784.4  |
| 10°   | 614.2  | 587.0  | 570.8  | 553.9  | 557.6  | 565.3  | 562.9  | 555.7  | 537.0  | 537.9  | 557.3  |
| 12.5° | 493.6  | 463.1  | 431.0  | 389.4  | 379.1  | 384.9  | 379.1  | 374.9  | 357.0  | 358.5  | 375.7  |
| 15°   | 374.3  | 349.5  | 315.8  | 282.4  | 264.3  | 265.9  | 250.0  | 238.8  | 227.6  | 214.1  | 224.6  |
| 17.5° | 252.8  | 237.6  | 227.6  | 217.6  | 196.0  | 191.0  | 170.8  | 149.1  | 140.6  | 134.3  | 138.8  |
| 20°   | 179.0  | 170.8  | 166.7  | 166.3  | 153.8  | 147.6  | 127.9  | 114.4  | 110.2  | 109.0  | 111.7  |
| 22.5° | 149.6  | 143.5  | 137.8  | 134.6  | 128.4  | 121.2  | 106.2  | 99.5   | 96.5   | 95.0   | 96.9   |
| 25°   | 130.1  | 125.6  | 119.7  | 114.1  | 111.7  | 103.9  | 93.2   | 88.2   | 86.2   | 84.7   | 85.8   |
| 27.5° | 115.6  | 111.7  | 104.6  | 101.2  | 99.2   | 92.4   | 83.2   | 79.3   | 77.5   | 77.0   | 76.7   |
| 30°   | 104.2  | 100.4  | 93.9   | 90.0   | 86.5   | 80.5   | 75.1   | 71.0   | 69.3   | 68.8   | 68.3   |
| 32.5° | 92.7   | 89.7   | 85.5   | 81.5   | 77.8   | 72.3   | 67.5   | 64.3   | 61.5   | 61.1   | 60.8   |
| 35°   | 78.3   | 75.2   | 73.0   | 72.8   | 69.3   | 64.1   | 60.6   | 56.4   | 54.1   | 53.4   | 53.5   |
| 37.5° | 69.5   | 65.6   | 60.6   | 62.3   | 61.3   | 57.6   | 52.9   | 48.6   | 46.4   | 45.8   | 45.8   |
| 40°   | 64.1   | 59.8   | 54.1   | 51.1   | 54.1   | 53.4   | 45.8   | 41.6   | 39.4   | 39.2   | 38.6   |
| 42.5° | 58.8   | 54.6   | 48.1   | 43.1   | 44.6   | 46.9   | 39.6   | 35.6   | 33.4   | 32.9   | 32.1   |
| 45°   | 55.0   | 50.6   | 43.4   | 37.7   | 34.7   | 39.4   | 33.9   | 28.9   | 27.7   | 26.7   | 26.2   |
| 47.5° | 51.6   | 47.3   | 39.2   | 32.7   | 27.7   | 28.4   | 27.1   | 23.7   | 22.2   | 21.2   | 20.9   |
| 50°   | 48.6   | 44.2   | 35.4   | 27.9   | 22.9   | 20.9   | 22.0   | 18.7   | 17.5   | 16.4   | 16.0   |
| 52.5° | 45.1   | 40.9   | 31.4   | 24.1   | 19.2   | 16.4   | 16.7   | 14.7   | 13.4   | 12.7   | 12.5   |
| 55°   | 42.4   | 38.1   | 28.2   | 21.2   | 16.9   | 13.4   | 11.9   | 11.5   | 10.7   | 10.2   | 10.0   |
| 57.5° | 38.6   | 34.7   | 24.9   | 17.9   | 14.5   | 11.0   | 9.2    | 9.2    | 9.0    | 8.5    | 8.3    |
| 59°   | 36.4   | 32.9   | 22.9   | 16.2   | 13.2   | 9.5    | 8.3    | 8.5    | 8.3    | 7.7    | 7.5    |
| 60°   | 34.7   | 31.4   | 21.4   | 14.9   | 12.5   | 8.7    | 7.5    | 8.0    | 7.7    | 7.2    | 7.0    |
| 62.5° | 30.6   | 28.4   | 18.4   | 12.5   | 11.0   | 7.0    | 6.2    | 6.8    | 6.8    | 6.5    | 6.2    |
| 65°   | 27.0   | 24.4   | 15.7   | 10.4   | 10.2   | 6.0    | 5.0    | 6.0    | 6.2    | 5.7    | 5.3    |
| 67.5° | 23.4   | 20.9   | 13.7   | 8.5    | 9.5    | 4.7    | 3.8    | 5.0    | 6.8    | 5.3    | 4.7    |
| 70°   | 19.9   | 17.5   | 10.7   | 6.8    | 10.0   | 3.2    | 3.0    | 4.5    | 8.0    | 5.7    | 4.5    |
| 72.5° | 15.5   | 13.4   | 7.5    | 5.0    | 10.7   | 2.3    | 2.3    | 3.8    | 9.0    | 6.2    | 4.2    |
| 75°   | 10.7   | 8.7    | 4.5    | 3.0    | 8.7    | 1.5    | 1.5    | 3.5    | 8.5    | 5.7    | 3.9    |
| 77.5° | 6.2    | 4.7    | 1.5    | 0.3    | 4.5    | 0.0    | 0.3    | 2.5    | 6.0    | 3.5    | 1.8    |
| 80°   | 2.3    | 1.0    | 0.0    | 0.0    | 2.7    | 0.0    | 0.0    | 0.0    | 0.5    | 0.0    | 0.0    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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):**

|       | 185°   | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1713.9 | 1713.9 | 1713.9 | 1713.9 | 1713.9 | 1713.9 | 1713.9 | 1713.9 | 1713.9 | 1713.9 | 1713.9 |
| 2.5°  | 1454.5 | 1488.1 | 1518.2 | 1563.9 | 1618.0 | 1680.3 | 1733.8 | 1791.4 | 1845.5 | 1868.0 | 1883.5 |
| 5°    | 1114.5 | 1156.1 | 1204.7 | 1271.8 | 1361.0 | 1470.9 | 1573.9 | 1690.3 | 1815.4 | 1877.9 | 1936.7 |
| 7.5°  | 788.0  | 830.3  | 890.6  | 961.9  | 1069.9 | 1200.7 | 1335.3 | 1496.1 | 1665.5 | 1764.6 | 1862.0 |
| 10°   | 566.5  | 618.7  | 675.0  | 772.5  | 882.2  | 1006.3 | 1144.8 | 1324.4 | 1513.3 | 1623.0 | 1740.3 |
| 12.5° | 385.6  | 444.9  | 530.2  | 639.4  | 768.2  | 889.9  | 1010.2 | 1181.5 | 1400.8 | 1509.5 | 1635.4 |
| 15°   | 231.3  | 264.3  | 354.4  | 480.9  | 638.9  | 790.4  | 922.3  | 1094.0 | 1327.8 | 1460.9 | 1591.8 |
| 17.5° | 142.6  | 157.8  | 206.9  | 310.6  | 476.6  | 668.3  | 849.0  | 1064.3 | 1338.3 | 1500.3 | 1640.4 |
| 20°   | 113.7  | 119.7  | 135.4  | 183.5  | 315.8  | 533.7  | 766.5  | 1058.4 | 1423.8 | 1623.2 | 1773.5 |
| 22.5° | 98.7   | 104.5  | 114.9  | 133.4  | 198.7  | 399.5  | 688.2  | 1063.9 | 1546.4 | 1807.4 | 1982.9 |
| 25°   | 87.0   | 92.0   | 101.9  | 117.1  | 145.6  | 281.4  | 604.5  | 1088.3 | 1706.2 | 2035.9 | 2222.4 |
| 27.5° | 77.8   | 82.0   | 91.2   | 105.2  | 124.8  | 196.4  | 509.5  | 1118.0 | 1895.7 | 2269.8 | 2453.8 |
| 30°   | 69.3   | 73.0   | 81.3   | 94.2   | 108.4  | 151.1  | 405.3  | 1138.2 | 2085.4 | 2453.8 | 2619.0 |
| 32.5° | 62.1   | 64.8   | 72.3   | 83.2   | 94.2   | 120.4  | 308.1  | 1134.9 | 2226.2 | 2606.8 | 2738.0 |
| 35°   | 54.6   | 57.3   | 63.8   | 73.3   | 82.0   | 99.5   | 242.3  | 1074.3 | 2348.9 | 2765.6 | 2874.0 |
| 37.5° | 46.4   | 49.9   | 56.1   | 64.5   | 70.5   | 87.5   | 196.0  | 1001.3 | 2473.2 | 2947.1 | 3025.8 |
| 40°   | 39.4   | 42.8   | 48.4   | 57.6   | 61.3   | 83.0   | 150.6  | 912.3  | 2613.0 | 3150.0 | 3192.3 |
| 42.5° | 32.7   | 35.9   | 41.6   | 49.6   | 57.9   | 71.6   | 111.4  | 810.6  | 2747.4 | 3323.5 | 3344.1 |
| 45°   | 26.4   | 29.7   | 35.6   | 43.6   | 61.8   | 59.4   | 86.2   | 701.6  | 2855.9 | 3467.8 | 3474.5 |
| 47.5° | 20.9   | 24.0   | 30.2   | 41.1   | 57.6   | 47.3   | 61.5   | 616.1  | 2946.8 | 3580.4 | 3562.7 |
| 50°   | 16.2   | 18.7   | 25.2   | 47.2   | 50.4   | 39.2   | 46.6   | 587.8  | 3028.3 | 3650.2 | 3604.4 |
| 52.5° | 12.7   | 14.9   | 20.7   | 44.2   | 39.2   | 32.4   | 39.2   | 614.5  | 3140.0 | 3708.1 | 3627.8 |
| 55°   | 10.2   | 12.5   | 16.2   | 25.2   | 26.7   | 27.4   | 33.4   | 639.4  | 3332.7 | 3843.6 | 3766.1 |
| 57.5° | 8.5    | 10.7   | 13.2   | 17.7   | 20.2   | 23.2   | 29.7   | 642.1  | 3559.7 | 4069.0 | 3995.7 |
| 59°   | 7.7    | 9.7    | 11.9   | 15.7   | 17.7   | 21.2   | 27.9   | 627.1  | 3639.8 | 4151.0 | 4114.4 |
| 60°   | 7.2    | 9.2    | 11.2   | 14.5   | 16.4   | 19.9   | 27.0   | 613.0  | 3643.3 | 4148.0 | 4165.0 |
| 62.5° | 6.2    | 8.3    | 10.0   | 12.2   | 14.0   | 16.9   | 24.1   | 560.3  | 3495.7 | 4012.2 | 4134.6 |
| 65°   | 5.4    | 7.2    | 9.0    | 10.4   | 11.9   | 15.2   | 22.0   | 464.3  | 3243.6 | 3793.1 | 3926.4 |
| 67.5° | 5.0    | 6.2    | 8.3    | 9.2    | 10.7   | 13.4   | 19.4   | 331.0  | 2928.8 | 3525.1 | 3611.6 |
| 70°   | 4.5    | 6.0    | 7.5    | 8.5    | 9.7    | 11.7   | 16.7   | 190.2  | 2473.2 | 3132.8 | 3194.3 |
| 72.5° | 4.2    | 5.7    | 6.8    | 8.0    | 8.7    | 10.4   | 15.2   | 89.5   | 1810.9 | 2509.6 | 2670.3 |
| 75°   | 3.8    | 5.3    | 6.2    | 7.5    | 8.3    | 9.5    | 13.0   | 42.8   | 1204.4 | 1816.1 | 1998.8 |
| 77.5° | 2.3    | 4.2    | 5.7    | 6.8    | 7.2    | 8.3    | 10.7   | 24.7   | 768.7  | 1257.0 | 1480.7 |
| 80°   | 0.0    | 1.5    | 4.2    | 5.7    | 6.2    | 7.0    | 8.3    | 19.4   | 411.3  | 718.2  | 862.0  |
| 82.5° | 0.0    | 0.0    | 3.0    | 4.5    | 4.2    | 4.7    | 6.2    | 12.2   | 185.4  | 469.3  | 529.0  |
| 85°   | 0.0    | 0.0    | 1.0    | 3.5    | 3.0    | 2.3    | 4.2    | 4.2    | 40.7   | 237.6  | 296.4  |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.3    | 1.5    | 1.0    | 1.8    | 0.5    | 0.3    | 17.7   | 71.8   |
| 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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|       | 285°   | 295°   | 305°   | 315°   | 325°   | 335°   | 345°   | 355°   | 359°   | 360°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1713.9 | 1713.9 | 1713.9 | 1713.9 | 1713.9 | 1713.9 | 1713.9 | 1713.9 | 1713.9 | 1713.9 |
| 2.5°  | 1937.5 | 1956.0 | 1987.1 | 2001.8 | 1994.6 | 1964.0 | 1927.4 | 1889.9 | 1868.0 | 1876.7 |
| 5°    | 2056.7 | 2151.7 | 2206.4 | 2224.7 | 2194.2 | 2125.5 | 2035.5 | 1916.8 | 1874.7 | 1863.3 |
| 7.5°  | 2056.7 | 2235.4 | 2348.6 | 2368.5 | 2300.7 | 2165.9 | 1997.1 | 1811.9 | 1750.4 | 1727.9 |
| 10°   | 1984.4 | 2227.7 | 2385.5 | 2417.2 | 2322.4 | 2120.8 | 1894.7 | 1683.3 | 1610.2 | 1587.1 |
| 12.5° | 1902.8 | 2164.8 | 2331.1 | 2374.7 | 2297.0 | 2075.9 | 1823.6 | 1596.3 | 1510.3 | 1490.1 |
| 15°   | 1852.8 | 2087.6 | 2225.1 | 2256.8 | 2223.9 | 2049.7 | 1806.6 | 1570.1 | 1468.9 | 1449.5 |
| 17.5° | 1870.7 | 2027.8 | 2077.4 | 2095.8 | 2118.0 | 2040.5 | 1852.8 | 1627.4 | 1499.4 | 1480.9 |
| 20°   | 1938.3 | 1964.7 | 1939.0 | 1962.2 | 2022.0 | 2049.5 | 1962.7 | 1766.1 | 1612.3 | 1587.6 |
| 22.5° | 2053.0 | 1932.1 | 1860.0 | 1869.2 | 1942.0 | 2079.1 | 2130.7 | 1964.0 | 1786.4 | 1755.5 |
| 25°   | 2186.5 | 1958.4 | 1816.1 | 1808.0 | 1882.7 | 2118.2 | 2284.2 | 2179.3 | 1992.6 | 1958.4 |
| 27.5° | 2354.6 | 2017.8 | 1807.2 | 1798.9 | 1862.0 | 2154.9 | 2411.9 | 2392.2 | 2209.7 | 2151.4 |
| 30°   | 2484.1 | 2076.2 | 1833.8 | 1814.9 | 1882.7 | 2180.3 | 2514.3 | 2572.9 | 2382.7 | 2344.1 |
| 32.5° | 2577.1 | 2144.9 | 1877.2 | 1849.8 | 1941.0 | 2224.2 | 2593.4 | 2738.4 | 2542.8 | 2484.1 |
| 35°   | 2648.0 | 2219.7 | 1947.3 | 1902.2 | 2021.3 | 2290.7 | 2667.4 | 2914.7 | 2713.0 | 2648.9 |
| 37.5° | 2714.2 | 2324.6 | 2056.7 | 2002.9 | 2147.2 | 2397.9 | 2745.7 | 3114.6 | 2903.4 | 2826.9 |
| 40°   | 2806.7 | 2443.6 | 2225.4 | 2177.6 | 2358.8 | 2544.0 | 2843.4 | 3322.9 | 3120.0 | 3023.8 |
| 42.5° | 2899.2 | 2571.1 | 2398.2 | 2411.1 | 2622.8 | 2721.4 | 2969.5 | 3543.3 | 3333.9 | 3231.2 |
| 45°   | 2983.7 | 2702.7 | 2644.2 | 2704.0 | 2867.8 | 2916.2 | 3094.8 | 3670.7 | 3504.7 | 3405.4 |
| 47.5° | 3058.9 | 2867.3 | 2888.7 | 3048.0 | 3146.5 | 3092.4 | 3188.6 | 3780.6 | 3631.8 | 3544.2 |
| 50°   | 3146.5 | 3080.2 | 3211.0 | 3436.4 | 3467.3 | 3251.9 | 3273.8 | 3910.7 | 3780.3 | 3710.0 |
| 52.5° | 3242.1 | 3304.5 | 3568.0 | 3766.6 | 3756.6 | 3425.1 | 3359.6 | 4056.5 | 3984.0 | 3917.9 |
| 55°   | 3350.8 | 3485.7 | 3882.3 | 4075.7 | 4067.2 | 3618.5 | 3501.7 | 4236.8 | 4239.2 | 4179.4 |
| 57.5° | 3512.1 | 3641.7 | 4095.7 | 4325.7 | 4339.9 | 3841.9 | 3742.5 | 4438.6 | 4470.0 | 4430.2 |
| 59°   | 3627.8 | 3742.9 | 4180.1 | 4430.2 | 4488.0 | 4014.7 | 3918.4 | 4555.8 | 4535.1 | 4498.8 |
| 60°   | 3713.5 | 3807.3 | 4222.0 | 4484.8 | 4574.0 | 4131.8 | 4048.3 | 4624.6 | 4542.8 | 4498.8 |
| 62.5° | 3925.6 | 3947.3 | 4297.5 | 4546.6 | 4672.9 | 4392.0 | 4413.7 | 4741.8 | 4489.3 | 4417.2 |
| 65°   | 4024.6 | 4035.8 | 4296.6 | 4435.9 | 4577.2 | 4594.7 | 4745.3 | 4745.3 | 4358.4 | 4247.8 |
| 67.5° | 3983.2 | 3929.1 | 4083.5 | 4069.0 | 4210.1 | 4474.3 | 4869.9 | 4571.3 | 4108.2 | 3965.1 |
| 70°   | 3646.7 | 3438.6 | 3370.1 | 3376.3 | 3484.2 | 3891.7 | 4623.1 | 4059.3 | 3634.5 | 3467.3 |
| 72.5° | 3034.3 | 2535.0 | 2365.8 | 2558.9 | 2587.1 | 2990.9 | 3939.9 | 3057.0 | 2680.4 | 2523.6 |
| 75°   | 2440.5 | 1787.0 | 1511.8 | 1715.7 | 1763.5 | 2188.8 | 3047.8 | 1903.9 | 1565.6 | 1443.5 |
| 77.5° | 1753.3 | 1282.7 | 1084.8 | 1070.6 | 1132.4 | 1388.1 | 2162.6 | 958.2  | 799.1  | 745.8  |
| 80°   | 996.0  | 844.2  | 909.1  | 857.8  | 888.9  | 867.9  | 1027.5 | 420.3  | 344.2  | 321.8  |
| 82.5° | 601.2  | 499.0  | 540.4  | 449.9  | 569.3  | 495.8  | 395.9  | 134.6  | 116.9  | 111.1  |
| 85°   | 391.1  | 272.7  | 142.0  | 95.3   | 196.1  | 316.9  | 88.5   | 36.6   | 28.2   | 22.5   |
| 87.5° | 134.9  | 69.5   | 7.0    | 3.0    | 20.9   | 59.1   | 3.2    | 0.0    | 0.0    | 0.0    |
| 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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