

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: P385888

Luminaire Tested: **GWC-SA1C-727-U-SLR-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P385888  
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-727-U-SLR-HSS  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 2700K, 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: 4683 lumens  
Efficiency: N/A  
Efficacy: 79.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G1

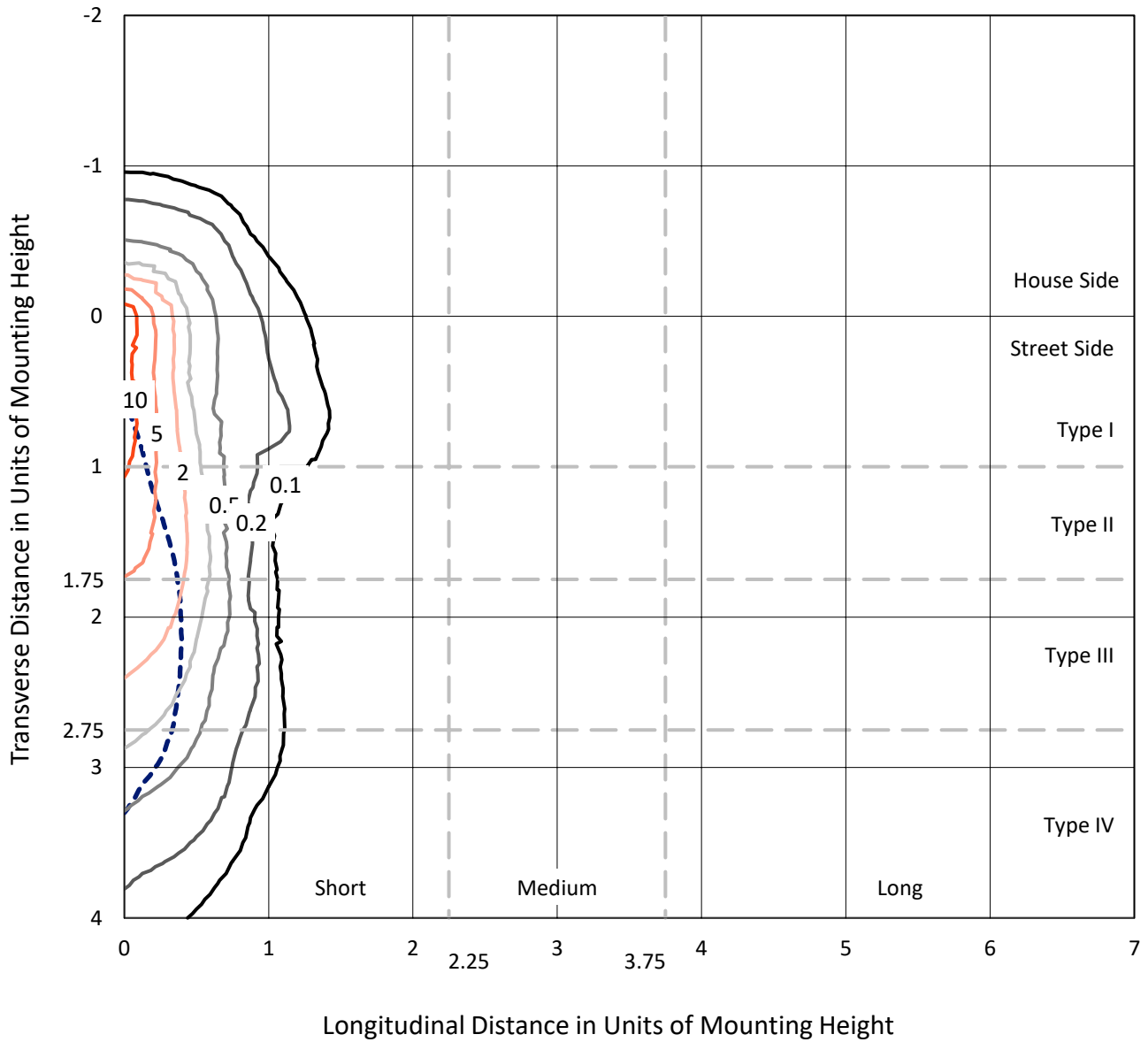
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

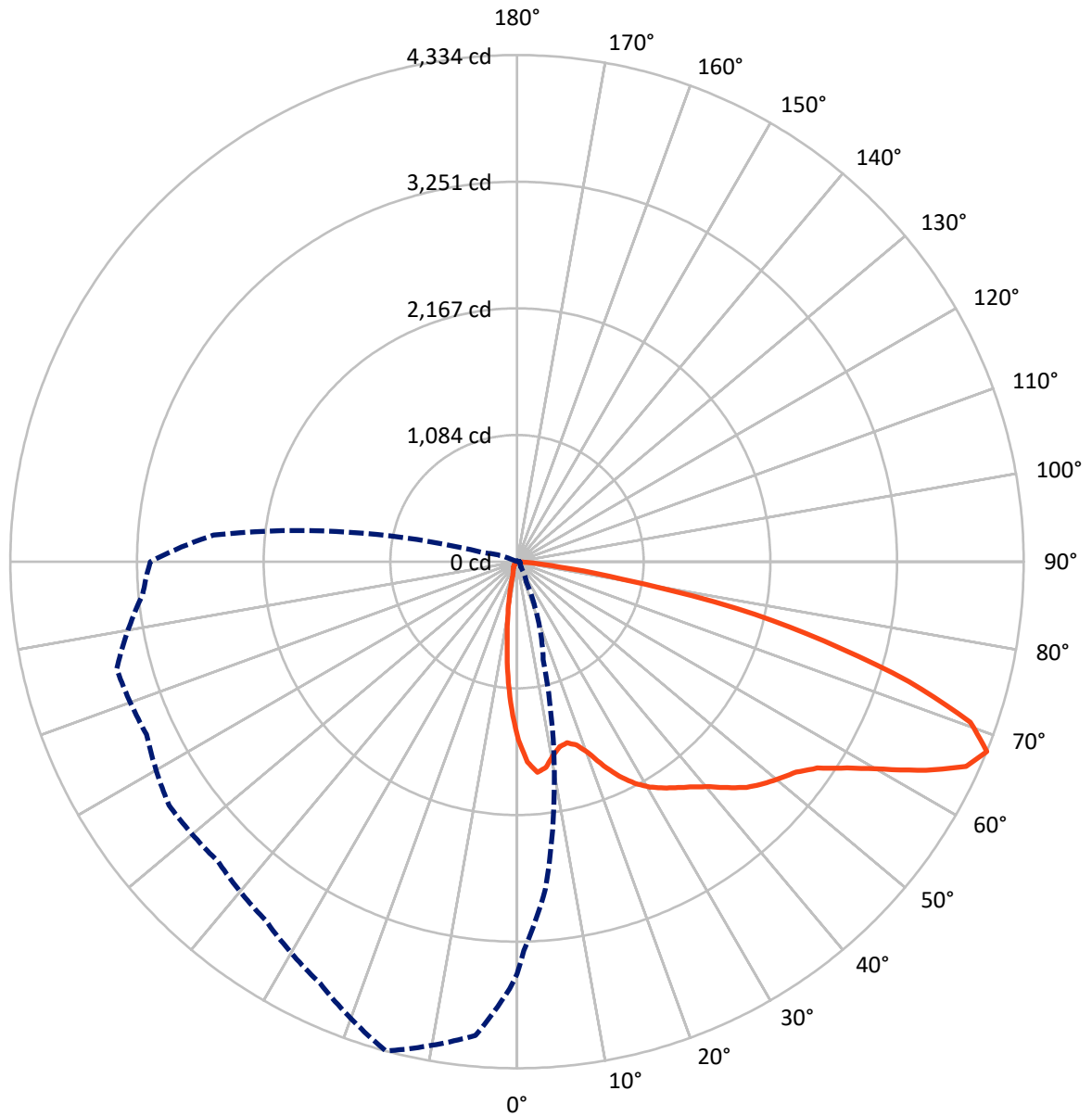
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.3 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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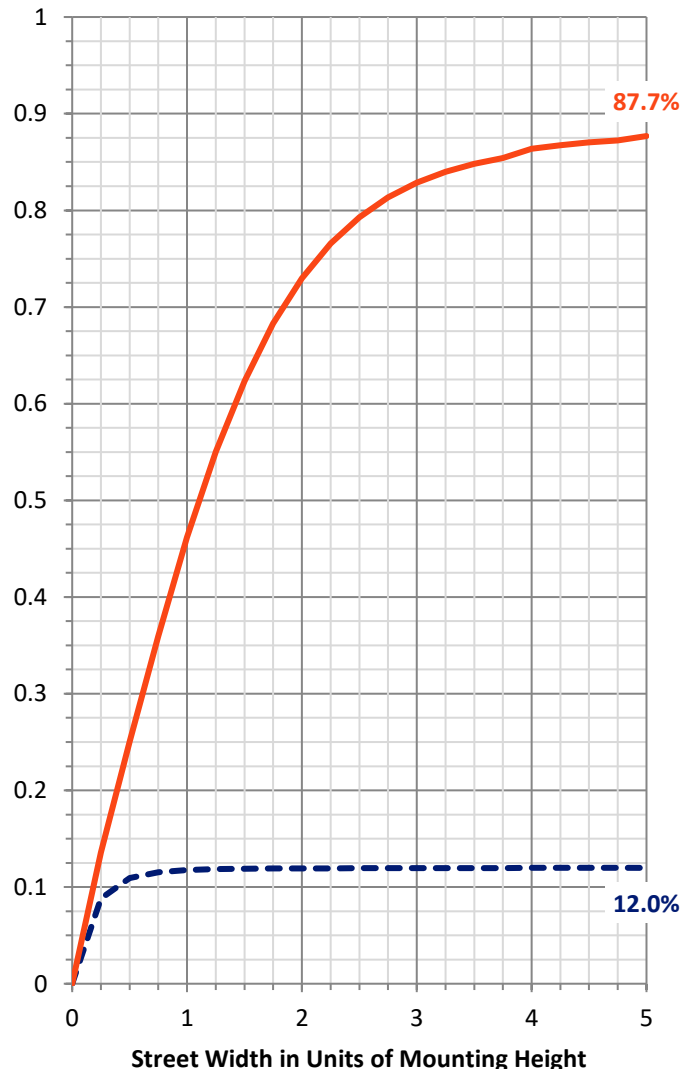
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 566.8    | 0.0    | 566.8  |
|                    | % Fixture | 12.1     | 0.0    | 12.1   |
| <b>Street Side</b> | Lumens    | 4116.2   | 0.0    | 4116.2 |
|                    | % Fixture | 87.9     | 0.0    | 87.9   |
| <b>Total</b>       | Lumens    | 4683.0   | 0.0    | 4683.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 117.1  | 2.5       |
| 10°-20°   | 233.0  | 5.0       |
| 20°-30°   | 330.9  | 7.1       |
| 30°-40°   | 488.8  | 10.4      |
| 40°-50°   | 704.9  | 15.1      |
| 50°-60°   | 989.6  | 21.1      |
| 60°-70°   | 1153.6 | 24.6      |
| 70°-80°   | 589.7  | 12.6      |
| 80°-90°   | 75.3   | 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°    | 4683.0 | 100.0     |
| 0°-180°   | 4683.0 | 100.0     |



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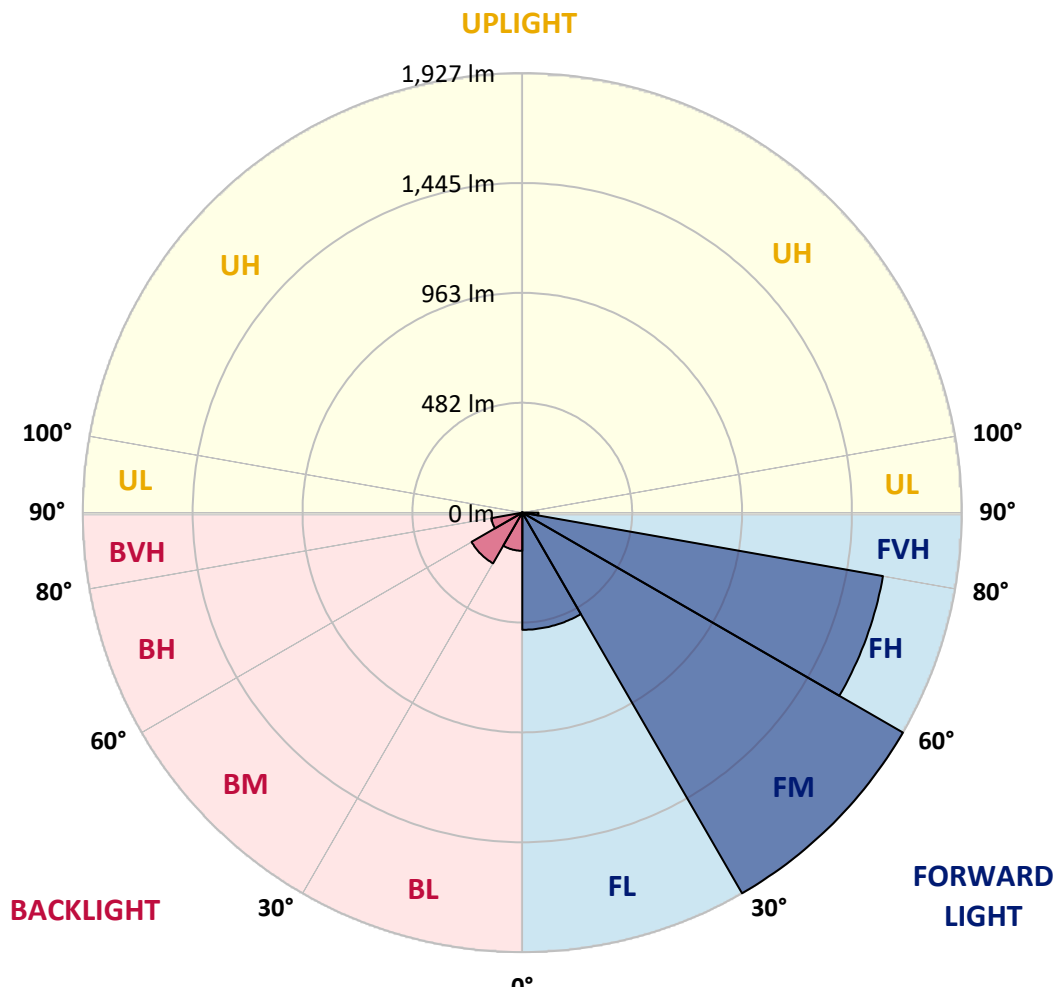
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 513.6  | 11.0      |                         |      |         |
| FM (30°-60°)   | 1926.7 | 41.1      |                         |      |         |
| FH (60°-80°)   | 1605.2 | 34.3      |                         |      | G1/1800 |
| FVH (80°-90°)  | 70.7   | 1.5       |                         |      | G1/100  |
| BL (0°-30°)    | 167.4  | 3.6       | B1/500                  |      |         |
| BM (30°-60°)   | 256.7  | 5.5       | B1/1000                 |      |         |
| BH (60°-80°)   | 138.1  | 2.9       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 4.6    | 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-G1**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 1°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1525.5 | 1525.5 | 1525.5 | 1525.5 | 1525.5 | 1525.5 | 1525.5 | 1525.5 | 1525.5 | 1525.5 | 1525.5 |
| 2.5°  | 1670.4 | 1657.5 | 1643.3 | 1596.9 | 1553.9 | 1504.6 | 1464.5 | 1436.5 | 1401.5 | 1356.0 | 1344.4 |
| 5°    | 1658.4 | 1644.6 | 1600.0 | 1496.9 | 1406.6 | 1318.7 | 1234.0 | 1184.3 | 1122.6 | 1060.0 | 1044.5 |
| 7.5°  | 1537.9 | 1523.5 | 1459.1 | 1317.8 | 1196.2 | 1069.3 | 959.3  | 891.2  | 821.5  | 764.3  | 733.9  |
| 10°   | 1412.6 | 1396.8 | 1324.5 | 1153.0 | 1003.2 | 888.5  | 807.8  | 742.8  | 676.9  | 615.6  | 566.8  |
| 12.5° | 1326.3 | 1305.6 | 1227.1 | 1032.7 | 902.3  | 824.4  | 749.0  | 671.1  | 581.9  | 516.3  | 462.6  |
| 15°   | 1290.1 | 1266.6 | 1183.6 | 986.4  | 866.6  | 775.2  | 676.9  | 581.3  | 476.8  | 401.6  | 352.3  |
| 17.5° | 1318.0 | 1287.4 | 1198.5 | 983.3  | 821.8  | 697.3  | 573.1  | 460.8  | 347.4  | 271.3  | 236.3  |
| 20°   | 1413.0 | 1372.8 | 1259.9 | 982.4  | 767.4  | 604.8  | 447.3  | 320.4  | 229.0  | 184.1  | 165.7  |
| 22.5° | 1562.5 | 1509.5 | 1348.2 | 989.5  | 711.3  | 507.6  | 323.0  | 217.6  | 171.9  | 148.6  | 137.8  |
| 25°   | 1743.1 | 1681.7 | 1475.3 | 1014.5 | 662.0  | 413.1  | 234.7  | 171.9  | 145.1  | 128.0  | 118.9  |
| 27.5° | 1914.8 | 1864.9 | 1636.0 | 1050.7 | 623.9  | 336.8  | 190.6  | 145.8  | 124.0  | 112.7  | 105.4  |
| 30°   | 2086.3 | 2023.5 | 1800.8 | 1093.7 | 577.9  | 285.1  | 167.5  | 132.9  | 111.1  | 99.2   | 94.5   |
| 32.5° | 2211.0 | 2158.9 | 1929.9 | 1124.8 | 528.9  | 251.4  | 149.8  | 121.6  | 103.8  | 91.6   | 84.7   |
| 35°   | 2357.7 | 2298.6 | 2040.6 | 1131.7 | 497.4  | 230.1  | 134.7  | 109.4  | 90.1   | 79.2   | 71.9   |
| 37.5° | 2516.1 | 2442.6 | 2168.4 | 1116.6 | 472.8  | 219.6  | 123.4  | 103.8  | 84.1   | 73.0   | 65.2   |
| 40°   | 2691.3 | 2608.4 | 2291.1 | 1094.9 | 448.6  | 216.1  | 114.7  | 99.6   | 79.4   | 68.1   | 60.1   |
| 42.5° | 2875.9 | 2778.1 | 2397.4 | 1072.0 | 433.3  | 203.9  | 113.8  | 95.4   | 75.9   | 63.7   | 55.7   |
| 45°   | 3031.0 | 2931.8 | 2506.5 | 1064.5 | 422.4  | 190.6  | 117.6  | 92.5   | 73.4   | 60.1   | 52.4   |
| 47.5° | 3154.6 | 3060.7 | 2618.3 | 1081.3 | 416.2  | 178.4  | 107.2  | 96.3   | 72.1   | 57.0   | 49.5   |
| 50°   | 3302.1 | 3195.8 | 2775.9 | 1131.7 | 407.1  | 166.2  | 97.0   | 110.3  | 72.1   | 55.0   | 47.0   |
| 52.5° | 3487.1 | 3382.0 | 2951.6 | 1209.8 | 388.9  | 149.3  | 87.2   | 110.5  | 72.8   | 52.4   | 43.9   |
| 55°   | 3719.9 | 3643.5 | 3202.5 | 1295.4 | 359.8  | 124.5  | 75.4   | 95.0   | 70.1   | 47.5   | 41.0   |
| 57.5° | 3943.0 | 3880.7 | 3431.2 | 1354.0 | 321.0  | 97.2   | 65.7   | 76.5   | 64.1   | 41.7   | 36.6   |
| 59°   | 4004.0 | 3935.9 | 3515.1 | 1356.6 | 292.0  | 84.7   | 60.8   | 63.2   | 62.8   | 39.0   | 33.9   |
| 60°   | 4004.0 | 3931.7 | 3539.3 | 1342.4 | 270.9  | 77.9   | 57.7   | 56.4   | 65.4   | 37.3   | 32.4   |
| 62.5° | 3931.5 | 3829.9 | 3460.7 | 1246.4 | 221.0  | 66.3   | 50.4   | 46.6   | 58.8   | 33.5   | 28.6   |
| 65°   | 3780.6 | 3632.7 | 3193.2 | 1072.7 | 197.0  | 60.8   | 43.5   | 38.2   | 40.8   | 29.5   | 25.1   |
| 67.5° | 3529.1 | 3328.5 | 2807.4 | 866.6  | 187.5  | 59.2   | 37.5   | 32.4   | 30.8   | 25.3   | 22.0   |
| 70°   | 3086.0 | 2863.5 | 2339.0 | 681.3  | 179.3  | 58.6   | 31.5   | 27.3   | 24.8   | 21.3   | 18.6   |
| 72.5° | 2246.1 | 2014.0 | 1660.6 | 532.7  | 174.4  | 59.9   | 25.3   | 22.9   | 20.4   | 16.6   | 14.4   |
| 75°   | 1284.8 | 1132.8 | 933.3  | 351.9  | 148.6  | 57.2   | 19.5   | 19.1   | 14.6   | 12.0   | 10.0   |
| 77.5° | 663.8  | 643.6  | 559.3  | 135.1  | 71.2   | 25.1   | 12.9   | 11.1   | 8.7    | 7.3    | 6.0    |
| 80°   | 286.4  | 283.3  | 245.2  | 39.0   | 18.9   | 14.0   | 7.3    | 4.7    | 4.0    | 3.1    | 2.4    |
| 82.5° | 98.9   | 98.9   | 87.2   | 13.1   | 8.4    | 6.9    | 0.9    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 20.0   | 22.4   | 15.8   | 0.0    | 2.9    | 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°    | 1525.5 | 1525.5 | 1525.5 | 1525.5 | 1525.5 | 1525.5 | 1525.5 | 1525.5 | 1525.5 | 1525.5 | 1525.5 |
| 2.5°  | 1330.5 | 1303.6 | 1301.8 | 1285.0 | 1263.9 | 1254.4 | 1248.8 | 1258.6 | 1270.6 | 1271.9 | 1289.9 |
| 5°    | 1032.7 | 1004.6 | 1016.3 | 986.4  | 992.4  | 986.4  | 976.6  | 978.4  | 983.7  | 967.1  | 987.7  |
| 7.5°  | 725.2  | 703.9  | 717.5  | 709.5  | 720.1  | 724.4  | 718.4  | 709.5  | 683.3  | 680.2  | 698.2  |
| 10°   | 546.7  | 522.5  | 508.0  | 493.0  | 496.3  | 503.2  | 500.9  | 494.5  | 477.9  | 478.8  | 496.1  |
| 12.5° | 439.3  | 412.2  | 383.6  | 346.5  | 337.4  | 342.5  | 337.4  | 333.7  | 317.7  | 319.0  | 334.3  |
| 15°   | 333.2  | 311.0  | 281.1  | 251.4  | 235.2  | 236.7  | 222.5  | 212.5  | 202.6  | 190.6  | 199.9  |
| 17.5° | 225.0  | 211.4  | 202.6  | 193.7  | 174.4  | 169.9  | 152.0  | 132.7  | 125.1  | 119.6  | 123.6  |
| 20°   | 159.3  | 152.0  | 148.4  | 148.0  | 136.9  | 131.3  | 113.8  | 101.8  | 98.1   | 97.0   | 99.4   |
| 22.5° | 133.1  | 127.8  | 122.7  | 119.8  | 114.3  | 107.8  | 94.5   | 88.5   | 85.9   | 84.5   | 86.3   |
| 25°   | 115.8  | 111.8  | 106.5  | 101.6  | 99.4   | 92.5   | 83.0   | 78.5   | 76.8   | 75.4   | 76.3   |
| 27.5° | 102.9  | 99.4   | 93.2   | 90.1   | 88.3   | 82.3   | 74.1   | 70.6   | 69.0   | 68.6   | 68.3   |
| 30°   | 92.7   | 89.4   | 83.6   | 80.1   | 77.0   | 71.7   | 66.8   | 63.2   | 61.7   | 61.2   | 60.8   |
| 32.5° | 82.5   | 79.9   | 76.1   | 72.5   | 69.2   | 64.3   | 60.1   | 57.2   | 54.8   | 54.4   | 54.1   |
| 35°   | 69.7   | 67.0   | 65.0   | 64.8   | 61.7   | 57.0   | 53.9   | 50.1   | 48.1   | 47.5   | 47.7   |
| 37.5° | 61.9   | 58.3   | 53.9   | 55.5   | 54.6   | 51.2   | 47.0   | 43.3   | 41.3   | 40.8   | 40.8   |
| 40°   | 57.0   | 53.2   | 48.1   | 45.5   | 48.1   | 47.5   | 40.8   | 37.0   | 35.1   | 34.8   | 34.4   |
| 42.5° | 52.4   | 48.6   | 42.8   | 38.4   | 39.7   | 41.7   | 35.3   | 31.7   | 29.7   | 29.3   | 28.6   |
| 45°   | 49.0   | 45.0   | 38.6   | 33.5   | 30.8   | 35.1   | 30.2   | 25.7   | 24.6   | 23.7   | 23.3   |
| 47.5° | 45.9   | 42.2   | 34.8   | 29.1   | 24.6   | 25.3   | 24.2   | 21.1   | 19.7   | 18.9   | 18.6   |
| 50°   | 43.3   | 39.3   | 31.5   | 24.8   | 20.4   | 18.6   | 19.5   | 16.6   | 15.5   | 14.6   | 14.2   |
| 52.5° | 40.2   | 36.4   | 28.0   | 21.5   | 17.1   | 14.6   | 14.9   | 13.1   | 12.0   | 11.3   | 11.1   |
| 55°   | 37.7   | 33.9   | 25.1   | 18.9   | 15.1   | 12.0   | 10.6   | 10.2   | 9.5    | 9.1    | 8.9    |
| 57.5° | 34.4   | 30.8   | 22.2   | 16.0   | 12.9   | 9.8    | 8.2    | 8.2    | 8.0    | 7.5    | 7.3    |
| 59°   | 32.4   | 29.3   | 20.4   | 14.4   | 11.8   | 8.4    | 7.3    | 7.5    | 7.3    | 6.9    | 6.7    |
| 60°   | 30.8   | 28.0   | 19.1   | 13.3   | 11.1   | 7.8    | 6.7    | 7.1    | 6.9    | 6.4    | 6.2    |
| 62.5° | 27.3   | 25.3   | 16.4   | 11.1   | 9.8    | 6.2    | 5.5    | 6.0    | 6.0    | 5.8    | 5.5    |
| 65°   | 24.0   | 21.7   | 14.0   | 9.3    | 9.1    | 5.3    | 4.4    | 5.3    | 5.5    | 5.1    | 4.7    |
| 67.5° | 20.9   | 18.6   | 12.2   | 7.5    | 8.4    | 4.2    | 3.3    | 4.4    | 6.0    | 4.7    | 4.2    |
| 70°   | 17.7   | 15.5   | 9.5    | 6.0    | 8.9    | 2.9    | 2.7    | 4.0    | 7.1    | 5.1    | 4.0    |
| 72.5° | 13.8   | 12.0   | 6.7    | 4.4    | 9.5    | 2.0    | 2.0    | 3.3    | 8.0    | 5.5    | 3.8    |
| 75°   | 9.5    | 7.8    | 4.0    | 2.7    | 7.8    | 1.3    | 1.3    | 3.1    | 7.5    | 5.1    | 3.5    |
| 77.5° | 5.5    | 4.2    | 1.3    | 0.2    | 4.0    | 0.0    | 0.2    | 2.2    | 5.3    | 3.1    | 1.6    |
| 80°   | 2.0    | 0.9    | 0.0    | 0.0    | 2.4    | 0.0    | 0.0    | 0.0    | 0.4    | 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°    | 1525.5 | 1525.5 | 1525.5 | 1525.5 | 1525.5 | 1525.5 | 1525.5 | 1525.5 | 1525.5 | 1525.5 | 1525.5 |
| 2.5°  | 1294.5 | 1324.5 | 1351.3 | 1391.9 | 1440.1 | 1495.5 | 1543.2 | 1594.5 | 1642.6 | 1662.6 | 1676.3 |
| 5°    | 991.9  | 1029.0 | 1072.2 | 1131.9 | 1211.3 | 1309.2 | 1400.8 | 1504.4 | 1615.8 | 1671.5 | 1723.8 |
| 7.5°  | 701.3  | 739.0  | 792.7  | 856.1  | 952.2  | 1068.7 | 1188.5 | 1331.6 | 1482.4 | 1570.5 | 1657.3 |
| 10°   | 504.3  | 550.6  | 600.8  | 687.5  | 785.1  | 895.6  | 1019.0 | 1178.7 | 1346.9 | 1444.5 | 1549.0 |
| 12.5° | 343.2  | 396.0  | 471.9  | 569.1  | 683.8  | 792.0  | 899.2  | 1051.6 | 1246.8 | 1343.6 | 1455.6 |
| 15°   | 205.9  | 235.2  | 315.5  | 428.0  | 568.6  | 703.5  | 820.9  | 973.7  | 1181.8 | 1300.3 | 1416.8 |
| 17.5° | 126.9  | 140.4  | 184.1  | 276.4  | 424.2  | 594.8  | 755.6  | 947.3  | 1191.1 | 1335.3 | 1460.0 |
| 20°   | 101.2  | 106.5  | 120.5  | 163.3  | 281.1  | 475.0  | 682.2  | 942.0  | 1267.2 | 1444.7 | 1578.5 |
| 22.5° | 87.9   | 93.0   | 102.3  | 118.7  | 176.8  | 355.6  | 612.5  | 946.9  | 1376.4 | 1608.7 | 1764.9 |
| 25°   | 77.4   | 81.9   | 90.7   | 104.3  | 129.6  | 250.5  | 538.0  | 968.6  | 1518.6 | 1812.1 | 1978.1 |
| 27.5° | 69.2   | 73.0   | 81.2   | 93.6   | 111.1  | 174.8  | 453.5  | 995.0  | 1687.2 | 2020.2 | 2183.9 |
| 30°   | 61.7   | 65.0   | 72.3   | 83.9   | 96.5   | 134.4  | 360.7  | 1013.0 | 1856.0 | 2183.9 | 2331.0 |
| 32.5° | 55.2   | 57.7   | 64.3   | 74.1   | 83.9   | 107.2  | 274.2  | 1010.1 | 1981.4 | 2320.2 | 2436.9 |
| 35°   | 48.6   | 51.0   | 56.8   | 65.2   | 73.0   | 88.5   | 215.6  | 956.2  | 2090.5 | 2461.5 | 2558.0 |
| 37.5° | 41.3   | 44.4   | 49.9   | 57.5   | 62.8   | 77.9   | 174.4  | 891.2  | 2201.3 | 2623.0 | 2693.1 |
| 40°   | 35.1   | 38.2   | 43.0   | 51.2   | 54.6   | 73.9   | 134.0  | 812.0  | 2325.7 | 2803.6 | 2841.3 |
| 42.5° | 29.1   | 31.9   | 37.0   | 44.1   | 51.5   | 63.7   | 99.2   | 721.5  | 2445.3 | 2958.0 | 2976.4 |
| 45°   | 23.5   | 26.4   | 31.7   | 38.8   | 55.0   | 52.8   | 76.8   | 624.5  | 2541.8 | 3086.5 | 3092.4 |
| 47.5° | 18.6   | 21.3   | 26.8   | 36.6   | 51.2   | 42.2   | 54.8   | 548.4  | 2622.8 | 3186.7 | 3171.0 |
| 50°   | 14.4   | 16.6   | 22.4   | 41.9   | 44.8   | 34.8   | 41.5   | 523.1  | 2695.3 | 3248.9 | 3208.0 |
| 52.5° | 11.3   | 13.3   | 18.4   | 39.3   | 34.8   | 28.8   | 34.8   | 546.9  | 2794.7 | 3300.3 | 3228.9 |
| 55°   | 9.1    | 11.1   | 14.4   | 22.4   | 23.7   | 24.4   | 29.7   | 569.1  | 2966.2 | 3421.0 | 3352.0 |
| 57.5° | 7.5    | 9.5    | 11.8   | 15.8   | 18.0   | 20.6   | 26.4   | 571.5  | 3168.3 | 3621.6 | 3556.3 |
| 59°   | 6.9    | 8.7    | 10.6   | 14.0   | 15.8   | 18.9   | 24.8   | 558.2  | 3239.5 | 3694.6 | 3661.9 |
| 60°   | 6.4    | 8.2    | 10.0   | 12.9   | 14.6   | 17.7   | 24.0   | 545.5  | 3242.6 | 3691.9 | 3707.0 |
| 62.5° | 5.5    | 7.3    | 8.9    | 10.9   | 12.4   | 15.1   | 21.5   | 498.7  | 3111.3 | 3571.0 | 3679.9 |
| 65°   | 4.9    | 6.4    | 8.0    | 9.3    | 10.6   | 13.5   | 19.5   | 413.3  | 2887.0 | 3376.0 | 3494.7 |
| 67.5° | 4.4    | 5.5    | 7.3    | 8.2    | 9.5    | 12.0   | 17.3   | 294.6  | 2606.8 | 3137.5 | 3214.5 |
| 70°   | 4.0    | 5.3    | 6.7    | 7.5    | 8.7    | 10.4   | 14.9   | 169.3  | 2201.3 | 2788.3 | 2843.1 |
| 72.5° | 3.8    | 5.1    | 6.0    | 7.1    | 7.8    | 9.3    | 13.5   | 79.6   | 1611.8 | 2233.6 | 2376.7 |
| 75°   | 3.3    | 4.7    | 5.5    | 6.7    | 7.3    | 8.4    | 11.5   | 38.2   | 1072.0 | 1616.4 | 1779.1 |
| 77.5° | 2.0    | 3.8    | 5.1    | 6.0    | 6.4    | 7.3    | 9.5    | 22.0   | 684.2  | 1118.8 | 1317.8 |
| 80°   | 0.0    | 1.3    | 3.8    | 5.1    | 5.5    | 6.2    | 7.3    | 17.3   | 366.1  | 639.2  | 767.2  |
| 82.5° | 0.0    | 0.0    | 2.7    | 4.0    | 3.8    | 4.2    | 5.5    | 10.9   | 165.1  | 417.8  | 470.8  |
| 85°   | 0.0    | 0.0    | 0.9    | 3.1    | 2.7    | 2.0    | 3.8    | 3.8    | 36.2   | 211.4  | 263.8  |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.2    | 1.3    | 0.9    | 1.6    | 0.4    | 0.2    | 15.8   | 63.9   |
| 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°    | 1525.5 | 1525.5 | 1525.5 | 1525.5 | 1525.5 | 1525.5 | 1525.5 | 1525.5 | 1525.5 | 1525.5 |
| 2.5°  | 1724.5 | 1740.9 | 1768.6 | 1781.7 | 1775.3 | 1748.0 | 1715.4 | 1682.1 | 1662.6 | 1670.4 |
| 5°    | 1830.5 | 1915.1 | 1963.9 | 1980.1 | 1953.0 | 1891.8 | 1811.7 | 1706.1 | 1668.6 | 1658.4 |
| 7.5°  | 1830.5 | 1989.6 | 2090.3 | 2108.1 | 2047.7 | 1927.7 | 1777.5 | 1612.7 | 1557.9 | 1537.9 |
| 10°   | 1766.2 | 1982.7 | 2123.2 | 2151.3 | 2067.0 | 1887.5 | 1686.3 | 1498.2 | 1433.2 | 1412.6 |
| 12.5° | 1693.6 | 1926.8 | 2074.8 | 2113.6 | 2044.4 | 1847.6 | 1623.1 | 1420.8 | 1344.2 | 1326.3 |
| 15°   | 1649.1 | 1858.0 | 1980.5 | 2008.7 | 1979.4 | 1824.3 | 1608.0 | 1397.5 | 1307.4 | 1290.1 |
| 17.5° | 1665.0 | 1804.8 | 1848.9 | 1865.4 | 1885.1 | 1816.1 | 1649.1 | 1448.5 | 1334.5 | 1318.0 |
| 20°   | 1725.1 | 1748.7 | 1725.8 | 1746.4 | 1799.7 | 1824.1 | 1746.9 | 1571.8 | 1435.0 | 1413.0 |
| 22.5° | 1827.2 | 1719.6 | 1655.5 | 1663.7 | 1728.5 | 1850.5 | 1896.4 | 1748.0 | 1590.0 | 1562.5 |
| 25°   | 1946.1 | 1743.1 | 1616.4 | 1609.1 | 1675.7 | 1885.3 | 2033.1 | 1939.7 | 1773.5 | 1743.1 |
| 27.5° | 2095.6 | 1795.9 | 1608.5 | 1601.1 | 1657.3 | 1917.9 | 2146.7 | 2129.1 | 1966.7 | 1914.8 |
| 30°   | 2211.0 | 1847.8 | 1632.2 | 1615.3 | 1675.7 | 1940.6 | 2237.9 | 2290.0 | 2120.7 | 2086.3 |
| 32.5° | 2293.8 | 1909.1 | 1670.8 | 1646.4 | 1727.6 | 1979.6 | 2308.2 | 2437.3 | 2263.1 | 2211.0 |
| 35°   | 2356.8 | 1975.6 | 1733.1 | 1693.0 | 1799.0 | 2038.9 | 2374.1 | 2594.2 | 2414.7 | 2357.7 |
| 37.5° | 2415.8 | 2069.0 | 1830.5 | 1782.6 | 1911.1 | 2134.3 | 2443.7 | 2772.1 | 2584.2 | 2516.1 |
| 40°   | 2498.1 | 2174.8 | 1980.7 | 1938.1 | 2099.4 | 2264.3 | 2530.7 | 2957.6 | 2777.0 | 2691.3 |
| 42.5° | 2580.4 | 2288.4 | 2134.5 | 2146.0 | 2334.4 | 2422.2 | 2643.0 | 3153.7 | 2967.3 | 2875.9 |
| 45°   | 2655.6 | 2405.6 | 2353.4 | 2406.7 | 2552.4 | 2595.5 | 2754.6 | 3267.0 | 3119.3 | 3031.0 |
| 47.5° | 2722.6 | 2552.0 | 2571.1 | 2712.8 | 2800.5 | 2752.3 | 2838.0 | 3364.9 | 3232.4 | 3154.6 |
| 50°   | 2800.5 | 2741.5 | 2857.9 | 3058.5 | 3086.0 | 2894.3 | 2913.9 | 3480.7 | 3364.7 | 3302.1 |
| 52.5° | 2885.7 | 2941.1 | 3175.6 | 3352.5 | 3343.6 | 3048.5 | 2990.2 | 3610.5 | 3545.9 | 3487.1 |
| 55°   | 2982.4 | 3102.4 | 3455.4 | 3627.6 | 3620.0 | 3220.7 | 3116.6 | 3770.9 | 3773.1 | 3719.9 |
| 57.5° | 3125.9 | 3241.3 | 3645.3 | 3850.1 | 3862.7 | 3419.5 | 3330.9 | 3950.6 | 3978.5 | 3943.0 |
| 59°   | 3228.9 | 3331.4 | 3720.5 | 3943.0 | 3994.5 | 3573.2 | 3487.6 | 4054.9 | 4036.4 | 4004.0 |
| 60°   | 3305.2 | 3388.6 | 3757.8 | 3991.6 | 4071.0 | 3677.5 | 3603.2 | 4116.1 | 4043.3 | 4004.0 |
| 62.5° | 3494.0 | 3513.3 | 3825.0 | 4046.6 | 4159.1 | 3909.1 | 3928.4 | 4220.4 | 3995.6 | 3931.5 |
| 65°   | 3582.1 | 3592.1 | 3824.1 | 3948.1 | 4073.9 | 4089.5 | 4223.5 | 4223.5 | 3879.1 | 3780.6 |
| 67.5° | 3545.3 | 3497.1 | 3634.4 | 3621.6 | 3747.1 | 3982.3 | 4334.4 | 4068.6 | 3656.4 | 3529.1 |
| 70°   | 3245.7 | 3060.5 | 2999.5 | 3005.0 | 3101.1 | 3463.8 | 4114.8 | 3612.9 | 3234.9 | 3086.0 |
| 72.5° | 2700.6 | 2256.3 | 2105.6 | 2277.6 | 2302.6 | 2662.0 | 3506.6 | 2720.8 | 2385.6 | 2246.1 |
| 75°   | 2172.2 | 1590.5 | 1345.6 | 1527.0 | 1569.6 | 1948.1 | 2712.6 | 1694.5 | 1393.5 | 1284.8 |
| 77.5° | 1560.5 | 1141.7 | 965.5  | 952.9  | 1007.9 | 1235.5 | 1924.8 | 852.8  | 711.3  | 663.8  |
| 80°   | 886.5  | 751.4  | 809.1  | 763.4  | 791.1  | 772.5  | 914.5  | 374.0  | 306.4  | 286.4  |
| 82.5° | 535.1  | 444.2  | 481.0  | 400.4  | 506.7  | 441.3  | 352.3  | 119.8  | 104.1  | 98.9   |
| 85°   | 348.1  | 242.7  | 126.5  | 84.7   | 174.6  | 282.0  | 78.8   | 32.6   | 25.1   | 20.0   |
| 87.5° | 120.0  | 61.9   | 6.2    | 2.7    | 18.6   | 52.6   | 2.9    | 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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