

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: P522172

Luminaire Tested: **CTN-CA10-760-740-U-T5R-HSS-HM-EX180**

Issue Date: 5/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522172  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-894-7)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 5/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: CTN-CA10-760-740-U-T5R-HSS-HM-EX180  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (10) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 70456 lumens  
Efficiency: N/A  
Efficacy: 92.5 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B5 - U2 - G5

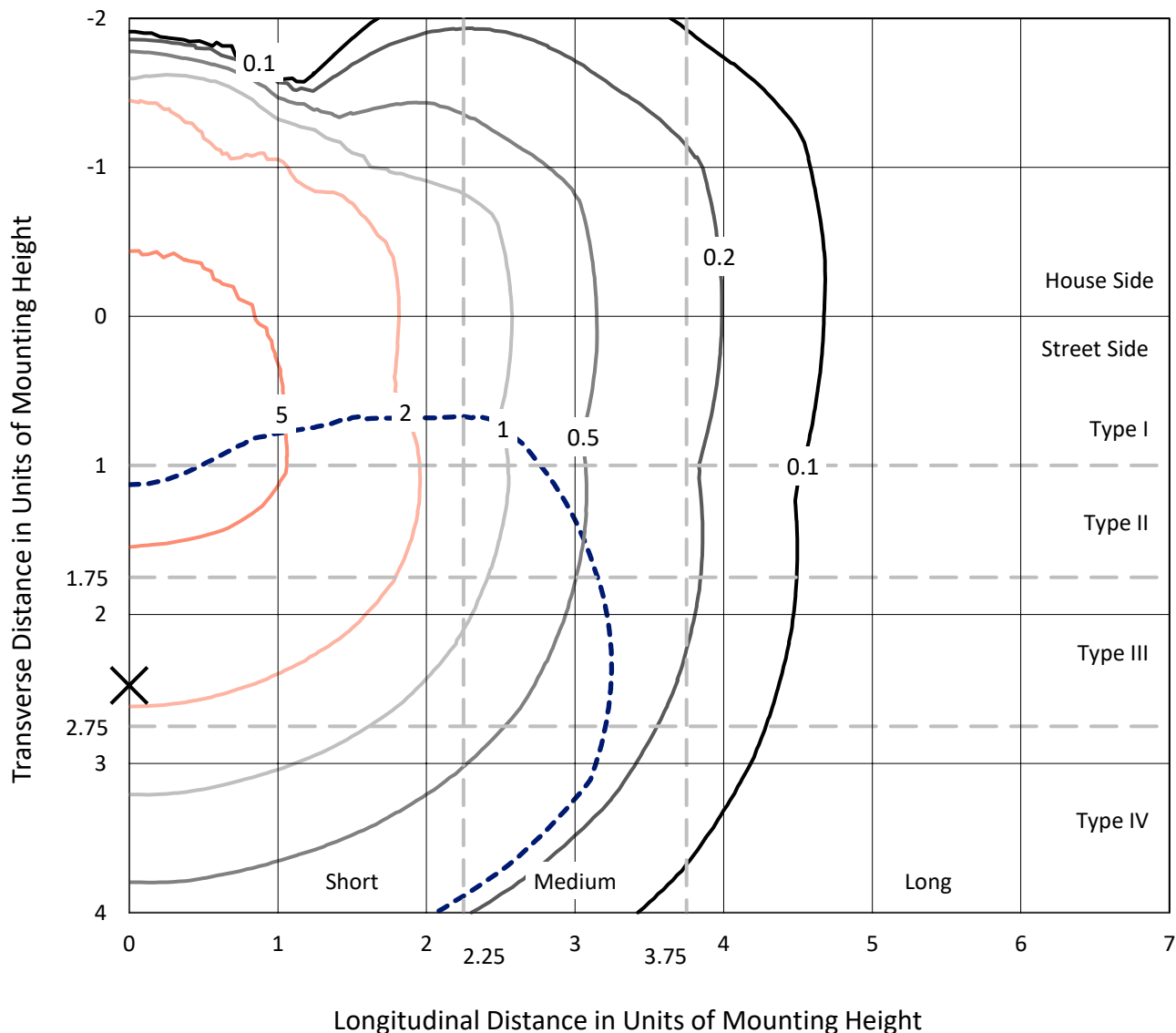
Input Watts (W): 761.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

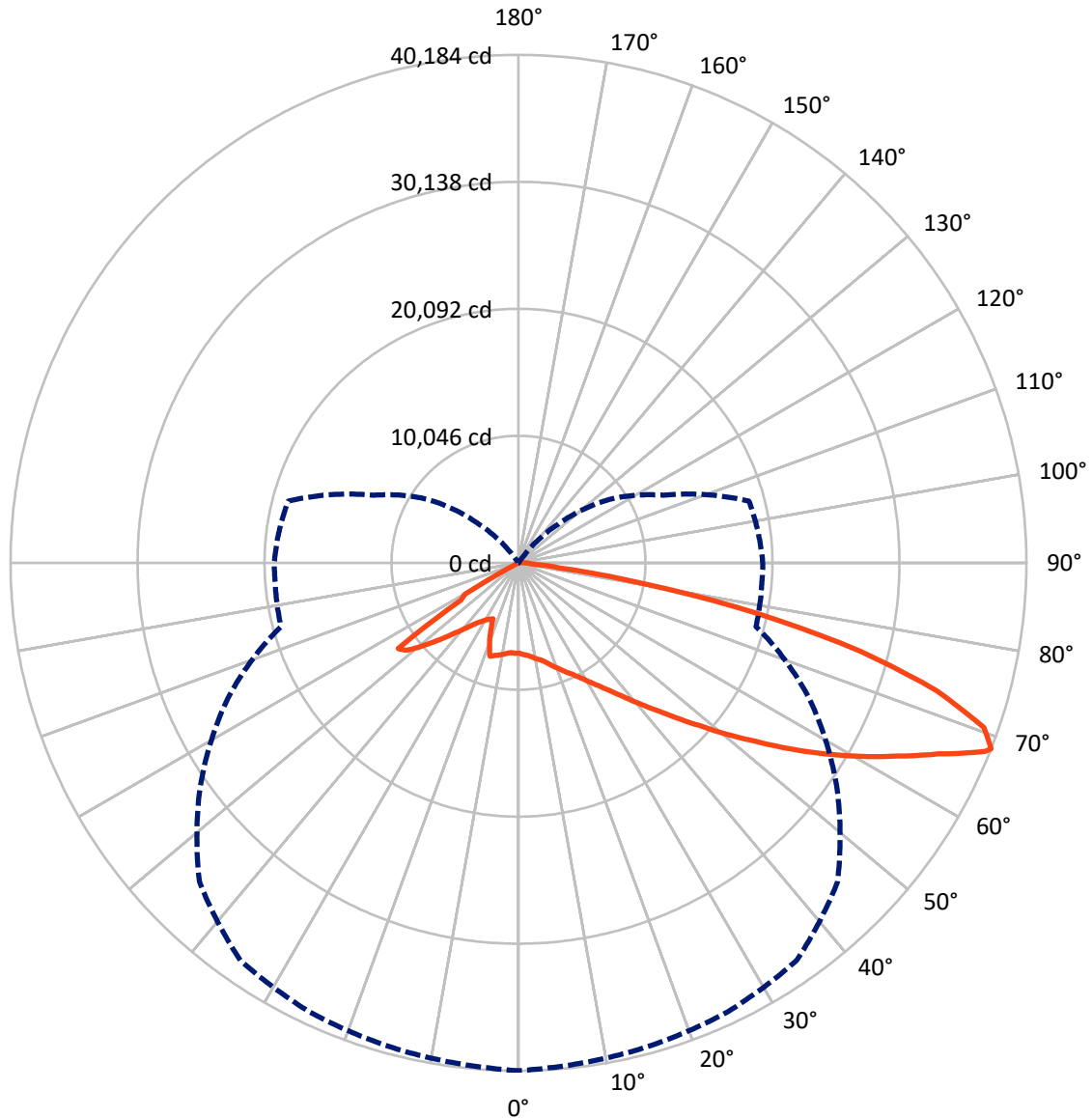
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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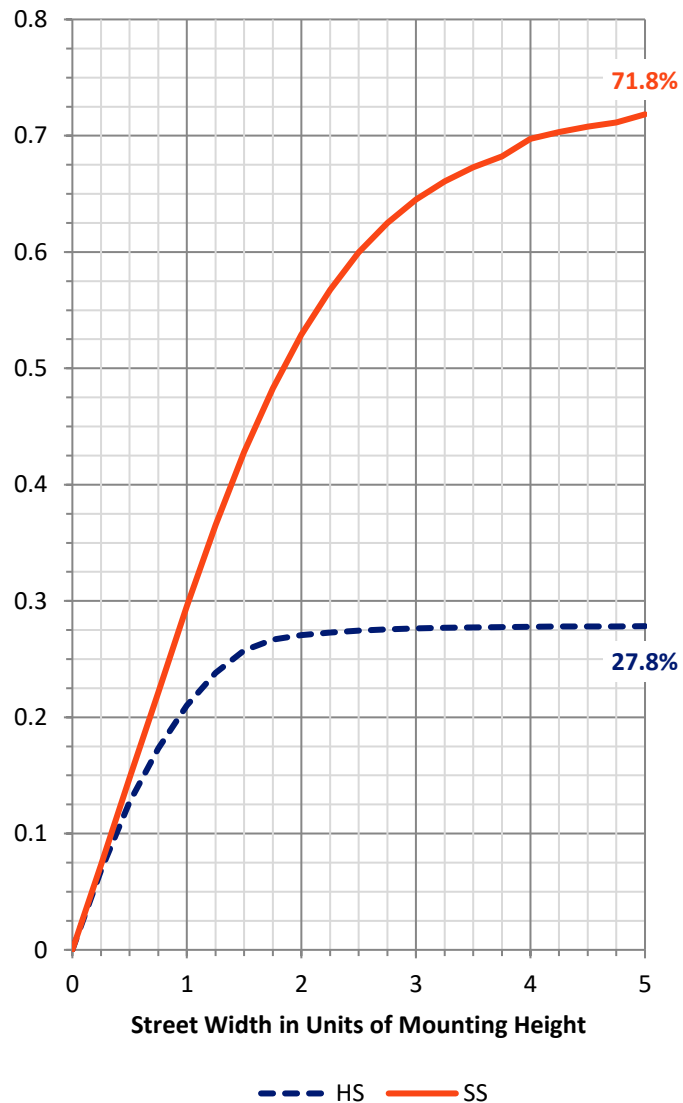
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 19678.5  | 0.4    | 19678.9 |
|                    | % Fixture | 27.9     | 0.0    | 27.9    |
| <b>Street Side</b> | Lumens    | 50736.8  | 40.4   | 50777.1 |
|                    | % Fixture | 72.0     | 0.1    | 72.1    |
| <b>Total</b>       | Lumens    | 70415.2  | 40.8   | 70456.0 |
|                    | % Fixture | 99.9     | 0.1    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 692.8   | 1.0       |
| 10°-20°   | 2195.2  | 3.1       |
| 20°-30°   | 3716.5  | 5.3       |
| 30°-40°   | 5887.8  | 8.4       |
| 40°-50°   | 9626.1  | 13.7      |
| 50°-60°   | 14744.8 | 20.9      |
| 60°-70°   | 18129.8 | 25.7      |
| 70°-80°   | 14008.8 | 19.9      |
| 80°-90°   | 1413.5  | 2.0       |
| 90°-100°  | 40.1    | 0.1       |
| 100°-110° | 0.7     | 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°    | 70415.2 | 99.9      |
| 0°-180°   | 70456.0 | 100.0     |

**Coefficient of Utilization**

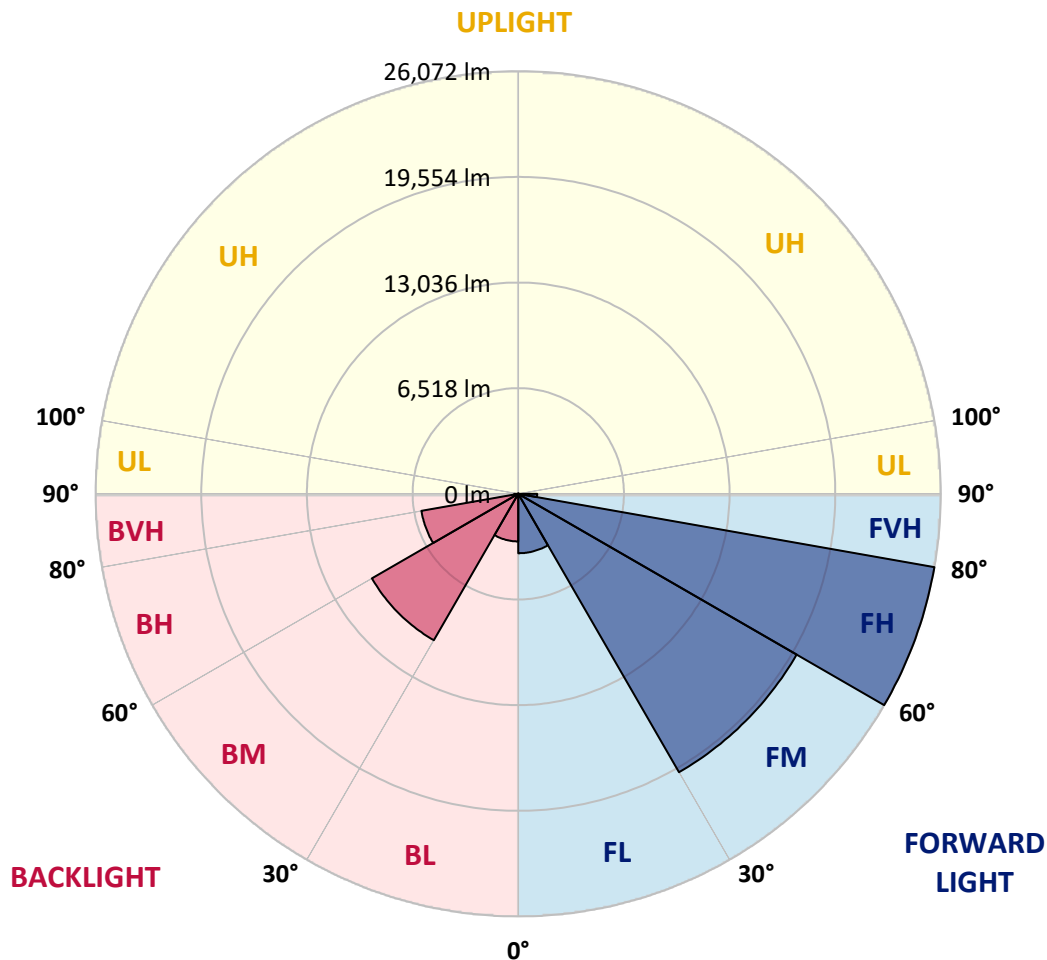


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |       |        |
|----------------|---------|-----------|-------------------------|-------|--------|
|                |         |           | B                       | U     | G      |
| FL (0°-30°)    | 3667.3  | 5.2       |                         |       |        |
| FM (30°-60°)   | 19832.2 | 28.1      |                         |       |        |
| FH (60°-80°)   | 26071.7 | 37.0      |                         |       | G5     |
| FVH (80°-90°)  | 1165.7  | 1.7       |                         |       | G5     |
| BL (0°-30°)    | 2937.2  | 4.2       | B4/5000                 |       |        |
| BM (30°-60°)   | 10426.5 | 14.8      | B5                      |       |        |
| BH (60°-80°)   | 6066.9  | 8.6       | B5                      |       | G5     |
| BVH (80°-90°)  | 247.8   | 0.4       |                         |       | G3/500 |
| UL (90°-100°)  | 40.1    | 0.1       |                         | U2/50 |        |
| UH (100°-180°) | 0.7     | 0.0       |                         | U1/10 |        |

**BUG Rating: B5-U2-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|        | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°     | 7137.9  | 7137.9  | 7137.9  | 7137.9  | 7137.9  | 7137.9  | 7137.9  | 7137.9  | 7137.9  | 7137.9  | 7137.9  |
| 2.5°   | 7266.9  | 7253.3  | 7239.8  | 7270.3  | 7151.5  | 7202.4  | 7161.7  | 7199.0  | 7171.9  | 7202.4  | 7192.3  |
| 5°     | 7362.0  | 7348.4  | 7307.7  | 7341.6  | 7263.5  | 7283.9  | 7233.0  | 7246.6  | 7154.9  | 7209.2  | 7205.8  |
| 7.5°   | 7518.1  | 7480.8  | 7453.6  | 7453.6  | 7385.7  | 7382.3  | 7300.9  | 7304.3  | 7233.0  | 7226.2  | 7239.8  |
| 10°    | 7728.5  | 7701.4  | 7626.7  | 7633.5  | 7538.5  | 7524.9  | 7423.1  | 7419.7  | 7362.0  | 7328.0  | 7358.6  |
| 12.5°  | 7884.7  | 7911.8  | 7843.9  | 7843.9  | 7748.9  | 7681.0  | 7609.7  | 7562.2  | 7518.1  | 7467.2  | 7443.4  |
| 15°    | 8169.8  | 8196.9  | 8105.3  | 8101.9  | 8064.6  | 7983.1  | 7905.0  | 7803.2  | 7725.1  | 7701.4  | 7664.0  |
| 17.5°  | 8539.7  | 8522.8  | 8444.7  | 8448.1  | 8454.9  | 8322.5  | 8244.4  | 8112.1  | 8000.1  | 7918.6  | 7898.2  |
| 20°    | 8916.5  | 8916.5  | 8831.6  | 8858.8  | 8824.8  | 8702.7  | 8651.7  | 8468.5  | 8312.3  | 8224.1  | 8152.8  |
| 22.5°  | 9337.4  | 9320.4  | 9262.7  | 9320.4  | 9252.5  | 9130.3  | 9045.5  | 8862.2  | 8661.9  | 8163.0  | 7959.3  |
| 25°    | 9737.9  | 9727.7  | 9751.5  | 9768.4  | 9683.6  | 9530.8  | 9473.1  | 9279.7  | 8723.0  | 8067.9  | 7657.3  |
| 27.5°  | 10243.6 | 10209.7 | 10264.0 | 10297.9 | 10213.1 | 10080.7 | 9958.5  | 9741.3  | 8563.5  | 8047.6  | 8003.5  |
| 30°    | 10891.9 | 10817.2 | 10895.3 | 10912.3 | 10824.0 | 10742.6 | 10559.3 | 9473.1  | 8617.8  | 8468.5  | 8454.9  |
| 32.5°  | 11584.3 | 11496.1 | 11597.9 | 11611.5 | 11496.1 | 11428.2 | 10966.6 | 9334.0  | 9150.7  | 8977.6  | 8994.6  |
| 35°    | 12405.7 | 12405.7 | 12456.6 | 12463.4 | 12378.5 | 12263.1 | 10505.0 | 10012.8 | 9849.9  | 9690.4  | 9687.0  |
| 37.5°  | 13407.0 | 13376.4 | 13512.2 | 13593.7 | 13502.0 | 13172.8 | 11177.0 | 10946.2 | 10695.0 | 10491.4 | 10070.5 |
| 40°    | 14615.3 | 14669.6 | 14706.9 | 14788.4 | 14700.2 | 13960.2 | 12157.9 | 11896.6 | 11699.7 | 11017.5 | 9955.1  |
| 42.5°  | 15918.7 | 15932.2 | 16013.7 | 16115.5 | 16115.5 | 15334.9 | 13305.2 | 13081.1 | 12826.6 | 10773.1 | 10294.5 |
| 45°    | 17476.6 | 17446.0 | 17602.2 | 17765.1 | 17721.0 | 16913.2 | 14639.1 | 14472.7 | 13281.4 | 11482.5 | 11485.9 |
| 47.5°  | 19245.0 | 19207.6 | 19431.6 | 19645.5 | 19424.8 | 18664.6 | 16105.3 | 15976.4 | 12819.8 | 12684.0 | 12656.9 |
| 50°    | 21288.2 | 21196.6 | 21454.6 | 21739.7 | 21559.8 | 20619.6 | 17887.3 | 15409.5 | 14106.2 | 13997.6 | 13980.6 |
| 52.5°  | 23470.7 | 23399.4 | 23555.6 | 24040.9 | 23803.3 | 22666.3 | 19574.2 | 15898.3 | 15596.2 | 15474.0 | 15443.5 |
| 55°    | 25934.9 | 25795.7 | 26131.7 | 26501.7 | 26226.8 | 24930.2 | 21237.3 | 17520.7 | 17208.5 | 16998.0 | 16692.5 |
| 57.5°  | 28524.6 | 28324.4 | 28497.5 | 28962.5 | 28697.7 | 27248.4 | 23382.5 | 19190.6 | 18820.7 | 15575.9 | 14337.0 |
| 60°    | 31104.2 | 31012.6 | 31080.4 | 31491.1 | 31165.3 | 29502.1 | 25391.8 | 20864.0 | 15928.8 | 15406.1 | 15467.2 |
| 62.5°  | 33697.3 | 33497.1 | 33558.2 | 33979.1 | 33561.6 | 31647.3 | 27295.9 | 22384.6 | 16763.8 | 16580.5 | 16645.0 |
| 65°    | 36477.2 | 36239.6 | 36293.9 | 36416.1 | 35900.2 | 33571.8 | 28979.4 | 23820.3 | 18019.7 | 17826.2 | 17897.5 |
| 67.5°  | 39827.2 | 39610.0 | 39314.7 | 38951.5 | 38238.7 | 35615.0 | 30652.8 | 25330.7 | 19431.6 | 19323.0 | 19346.8 |
| 68°    | 40183.6 | 39973.2 | 39616.8 | 39185.7 | 38384.7 | 35699.9 | 30724.0 | 25374.8 | 19452.0 | 19316.2 | 19323.0 |
| 70°    | 39073.7 | 39199.3 | 38795.4 | 38072.4 | 37403.8 | 34457.6 | 29559.8 | 24397.3 | 18586.5 | 18386.2 | 18335.3 |
| 72.5°  | 34603.6 | 34878.5 | 34321.9 | 34199.7 | 33378.3 | 30696.9 | 25867.0 | 21169.5 | 16166.4 | 16230.9 | 16047.6 |
| 75°    | 27937.4 | 28341.3 | 27665.9 | 27703.2 | 27234.8 | 25605.6 | 21678.6 | 17625.9 | 13274.6 | 13569.9 | 13624.2 |
| 77.5°  | 19428.2 | 20008.6 | 19713.4 | 20008.6 | 19777.8 | 19190.6 | 16777.4 | 13573.3 | 10128.2 | 10467.6 | 10600.0 |
| 80°    | 10131.6 | 10820.6 | 11211.0 | 11333.1 | 11407.8 | 11384.1 | 10216.5 | 8146.0  | 5854.9  | 5980.5  | 5973.7  |
| 82.5°  | 3204.1  | 3037.8  | 3136.2  | 3109.1  | 3024.2  | 3058.1  | 2756.1  | 2155.3  | 1493.4  | 1646.2  | 1574.9  |
| 85°    | 967.3   | 974.1   | 947.0   | 940.2   | 868.9   | 763.7   | 624.5   | 359.8   | 176.5   | 207.0   | 193.5   |
| 87.5°  | 712.8   | 719.6   | 665.3   | 631.3   | 590.6   | 512.5   | 397.1   | 224.0   | 84.9    | 81.5    | 64.5    |
| 90°    | 393.7   | 380.1   | 353.0   | 325.8   | 308.9   | 264.7   | 200.3   | 84.9    | 30.5    | 23.8    | 20.4    |
| 92.5°  | 213.8   | 203.7   | 190.1   | 179.9   | 156.1   | 125.6   | 81.5    | 27.2    | 13.6    | 3.4     | 0.0     |
| 95°    | 98.4    | 91.6    | 88.2    | 78.1    | 67.9    | 47.5    | 27.2    | 17.0    | 10.2    | 3.4     | 0.0     |
| 97.5°  | 44.1    | 40.7    | 37.3    | 30.5    | 23.8    | 13.6    | 13.6    | 10.2    | 6.8     | 3.4     | 0.0     |
| 100°   | 10.2    | 10.2    | 6.8     | 6.8     | 6.8     | 6.8     | 6.8     | 6.8     | 6.8     | 3.4     | 0.0     |
| 102.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 3.4     | 3.4     | 0.0     | 0.0     |
| 105°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 3.4     | 0.0     | 0.0     |
| 107.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 3.4     | 0.0     | 0.0     |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 5°  | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 110°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180°   | 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):**

|        | 95°     | 105°    | 115°    | 125°    | 135°    | 145°   | 155°   | 165°   | 175°    | 180°    |
|--------|---------|---------|---------|---------|---------|--------|--------|--------|---------|---------|
| 0°     | 7137.9  | 7137.9  | 7137.9  | 7137.9  | 7137.9  | 7137.9 | 7137.9 | 7137.9 | 7137.9  | 7137.9  |
| 2.5°   | 7182.1  | 7161.7  | 7151.5  | 7087.0  | 7107.4  | 7049.7 | 7161.7 | 7134.5 | 7117.6  | 7165.1  |
| 5°     | 7188.9  | 7117.6  | 7161.7  | 7124.4  | 7137.9  | 7056.5 | 7144.7 | 7107.4 | 7104.0  | 7124.4  |
| 7.5°   | 7205.8  | 7158.3  | 7202.4  | 7127.8  | 7161.7  | 7127.8 | 7192.3 | 7154.9 | 7185.5  | 7205.8  |
| 10°    | 7297.5  | 7270.3  | 7250.0  | 7233.0  | 7256.7  | 7188.9 | 7270.3 | 7273.7 | 7283.9  | 7345.0  |
| 12.5°  | 7426.4  | 7399.3  | 7365.4  | 7321.2  | 7345.0  | 7317.8 | 7378.9 | 7395.9 | 7433.2  | 7463.8  |
| 15°    | 7606.3  | 7555.4  | 7541.9  | 7501.1  | 7524.9  | 7511.3 | 7524.9 | 7514.7 | 7586.0  | 7575.8  |
| 17.5°  | 7854.1  | 7796.4  | 7602.9  | 7406.1  | 7280.5  | 7317.8 | 7474.0 | 7677.6 | 7728.5  | 7735.3  |
| 20°    | 7945.8  | 7538.5  | 7518.1  | 7294.1  | 7192.3  | 7185.5 | 6863.0 | 6381.0 | 6527.0  | 6869.8  |
| 22.5°  | 7837.1  | 7280.5  | 7222.8  | 7178.7  | 6744.2  | 6031.4 | 5963.6 | 5892.3 | 5875.3  | 5926.2  |
| 25°    | 7592.8  | 7528.3  | 7477.4  | 6900.4  | 6214.7  | 6218.1 | 6119.7 | 5651.3 | 4921.5  | 4860.5  |
| 27.5°  | 7966.1  | 7877.9  | 7385.7  | 6496.4  | 6482.9  | 6476.1 | 6330.1 | 5128.6 | 4972.5  | 5009.8  |
| 30°    | 8390.4  | 8244.4  | 6958.1  | 6842.7  | 6839.3  | 6778.2 | 5675.1 | 5172.7 | 5172.7  | 5179.5  |
| 32.5°  | 8879.2  | 7972.9  | 7202.4  | 7256.7  | 7253.3  | 6964.8 | 5481.6 | 5447.6 | 5434.1  | 5468.0  |
| 35°    | 9252.5  | 7755.7  | 7728.5  | 7827.0  | 7759.1  | 5909.3 | 5824.4 | 5793.9 | 5780.3  | 5763.3  |
| 37.5°  | 9137.1  | 8380.2  | 8380.2  | 8441.3  | 7894.8  | 6292.8 | 6252.1 | 6252.1 | 6224.9  | 6211.3  |
| 40°    | 9313.6  | 9157.5  | 9079.4  | 9103.2  | 5736.2  | 6757.8 | 6788.3 | 6781.6 | 6778.2  | 6801.9  |
| 42.5°  | 10243.6 | 10104.5 | 10033.2 | 9191.4  | 6421.8  | 6717.1 | 7463.8 | 7460.4 | 7470.6  | 7460.4  |
| 45°    | 11428.2 | 11299.2 | 11112.5 | 8600.8  | 7290.7  | 5888.9 | 8227.5 | 8264.8 | 8268.2  | 8264.8  |
| 47.5°  | 12670.4 | 12589.0 | 10678.1 | 9520.7  | 8234.3  | 6319.9 | 7864.3 | 9184.6 | 9167.7  | 9188.0  |
| 50°    | 13984.0 | 13617.4 | 10623.8 | 10610.2 | 9238.9  | 7032.7 | 7036.1 | 9989.0 | 10162.2 | 10216.5 |
| 52.5°  | 15446.9 | 12344.6 | 11774.4 | 10742.6 | 10257.2 | 7765.9 | 7691.2 | 8852.0 | 11214.3 | 11268.7 |
| 55°    | 14347.2 | 13040.4 | 13030.2 | 9561.4  | 10671.3 | 8471.9 | 8482.0 | 8400.6 | 10284.3 | 11689.5 |
| 57.5°  | 14275.9 | 14306.4 | 14282.7 | 10667.9 | 7786.2  | 7942.4 | 9242.3 | 9171.1 | 6659.4  | 5396.7  |
| 60°    | 15508.0 | 15552.1 | 13875.4 | 11519.8 | 8417.5  | 4884.2 | 5692.0 | 4836.7 | 4901.2  | 4952.1  |
| 62.5°  | 16685.7 | 16699.3 | 11285.6 | 7552.0  | 4171.4  | 196.9  | 95.0   | 78.1   | 74.7    | 74.7    |
| 65°    | 17989.1 | 17989.1 | 12096.8 | 8237.7  | 4028.9  | 74.7   | 13.6   | 10.2   | 37.3    | 37.3    |
| 67.5°  | 19248.3 | 18970.0 | 12690.8 | 8746.8  | 4100.2  | 10.2   | 0.0    | 0.0    | 0.0     | 0.0     |
| 68°    | 19177.1 | 18871.6 | 12636.5 | 8733.2  | 4090.0  | 6.8    | 0.0    | 0.0    | 0.0     | 0.0     |
| 70°    | 18111.3 | 17816.0 | 11988.2 | 8336.1  | 3937.2  | 6.8    | 0.0    | 0.0    | 0.0     | 0.0     |
| 72.5°  | 15986.6 | 15715.0 | 10617.0 | 7348.4  | 3550.3  | 3.4    | 0.0    | 0.0    | 0.0     | 0.0     |
| 75°    | 13532.6 | 13495.2 | 9171.1  | 6201.2  | 3044.6  | 3.4    | 0.0    | 0.0    | 0.0     | 0.0     |
| 77.5°  | 10888.5 | 10718.8 | 7168.5  | 4860.5  | 2454.0  | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     |
| 80°    | 6065.4  | 6316.6  | 4195.2  | 2857.9  | 1544.3  | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     |
| 82.5°  | 1639.4  | 1534.2  | 916.4   | 621.1   | 295.3   | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     |
| 85°    | 210.4   | 230.8   | 105.2   | 84.9    | 20.4    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     |
| 87.5°  | 108.6   | 129.0   | 33.9    | 27.2    | 6.8     | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     |
| 90°    | 20.4    | 23.8    | 10.2    | 3.4     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     |
| 92.5°  | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     |
| 95°    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     |
| 97.5°  | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     |
| 100°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     |
| 102.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     |
| 105°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     |
| 107.5° | 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):**

|        | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|-----|------|------|------|------|------|------|------|------|------|
| 110°   | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 112.5° | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 115°   | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 117.5° | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 120°   | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 122.5° | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 125°   | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 127.5° | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 130°   | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 132.5° | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 135°   | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 137.5° | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 140°   | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 142.5° | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 145°   | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 147.5° | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 150°   | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 152.5° | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 155°   | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 157.5° | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 160°   | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 162.5° | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 165°   | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 167.5° | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 170°   | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 172.5° | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 175°   | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 177.5° | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 180°   | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |

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