

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: P191298

Luminaire Tested: **GLEON-AF-10-LED-E1-SLL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191298  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24296)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-10-LED-E1-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 52965.3 lumens  
Efficiency: N/A  
Efficacy: 94.9 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G5

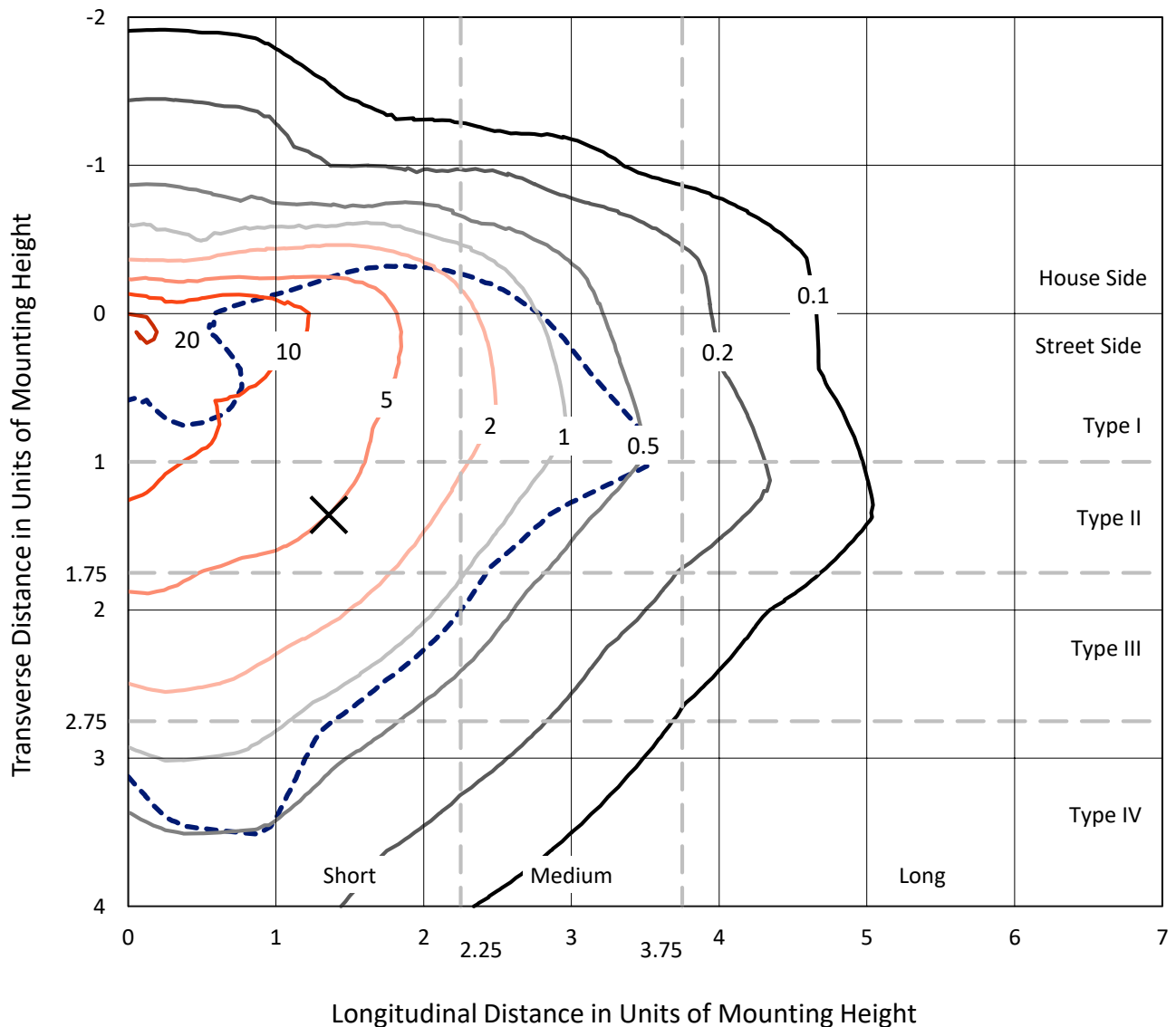
Input Watts (W): 558  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

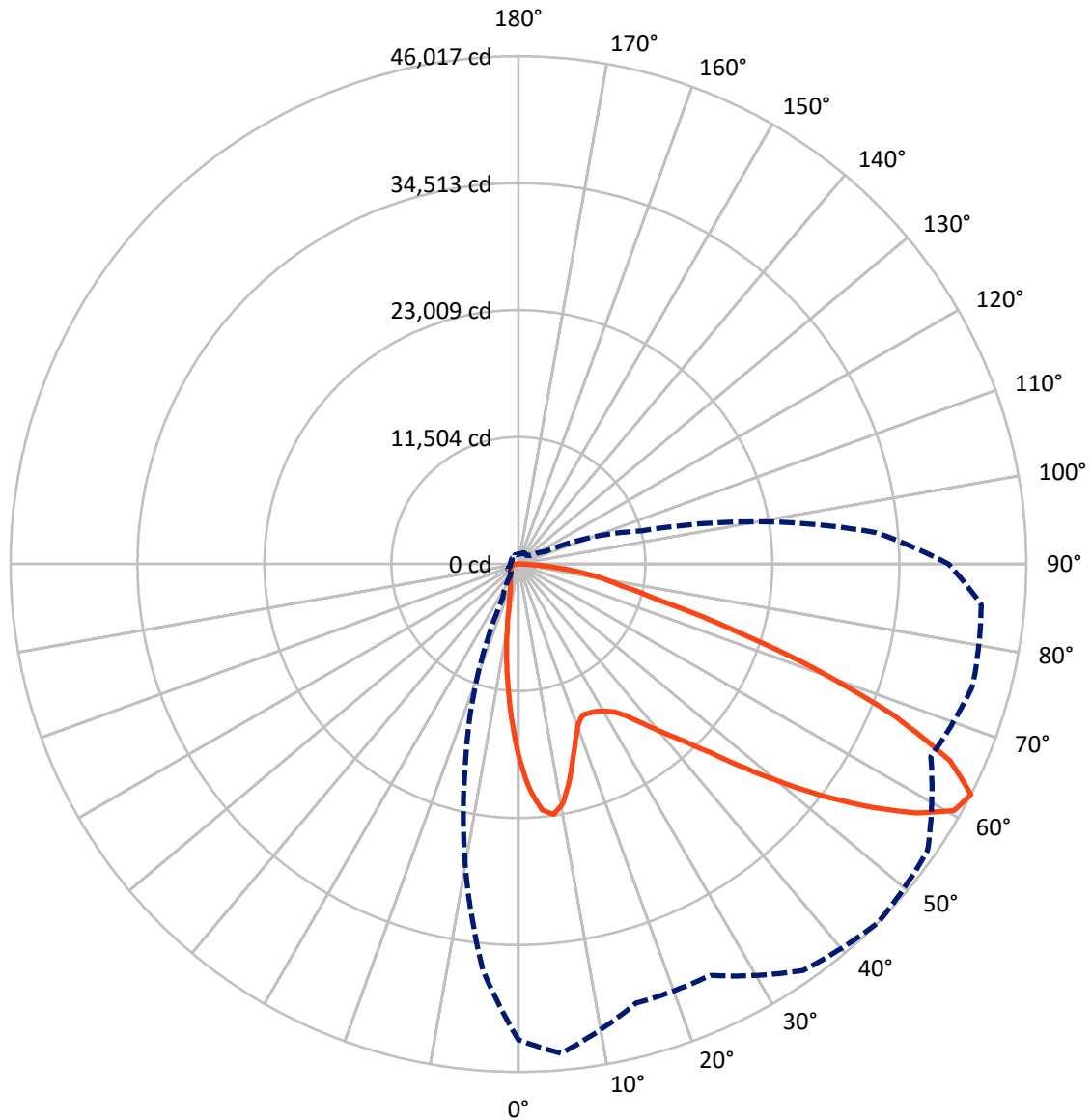
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 23.4 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8765.0   | 0.0    | 8765.0  |
|                    | % Fixture | 16.5     | 0.0    | 16.5    |
| <b>Street Side</b> | Lumens    | 44200.3  | 0.0    | 44200.3 |
|                    | % Fixture | 83.5     | 0.0    | 83.5    |
| <b>Total</b>       | Lumens    | 52965.3  | 0.0    | 52965.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1302.6  | 2.5       |
| 10°-20°   | 2388.7  | 4.5       |
| 20°-30°   | 3482.7  | 6.6       |
| 30°-40°   | 5363.9  | 10.1      |
| 40°-50°   | 7894.2  | 14.9      |
| 50°-60°   | 11579.1 | 21.9      |
| 60°-70°   | 12943.8 | 24.4      |
| 70°-80°   | 6337.1  | 12.0      |
| 80°-90°   | 1673.2  | 3.2       |
| 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°    | 52965.3 | 100.0     |
| 0°-180°   | 52965.3 | 100.0     |



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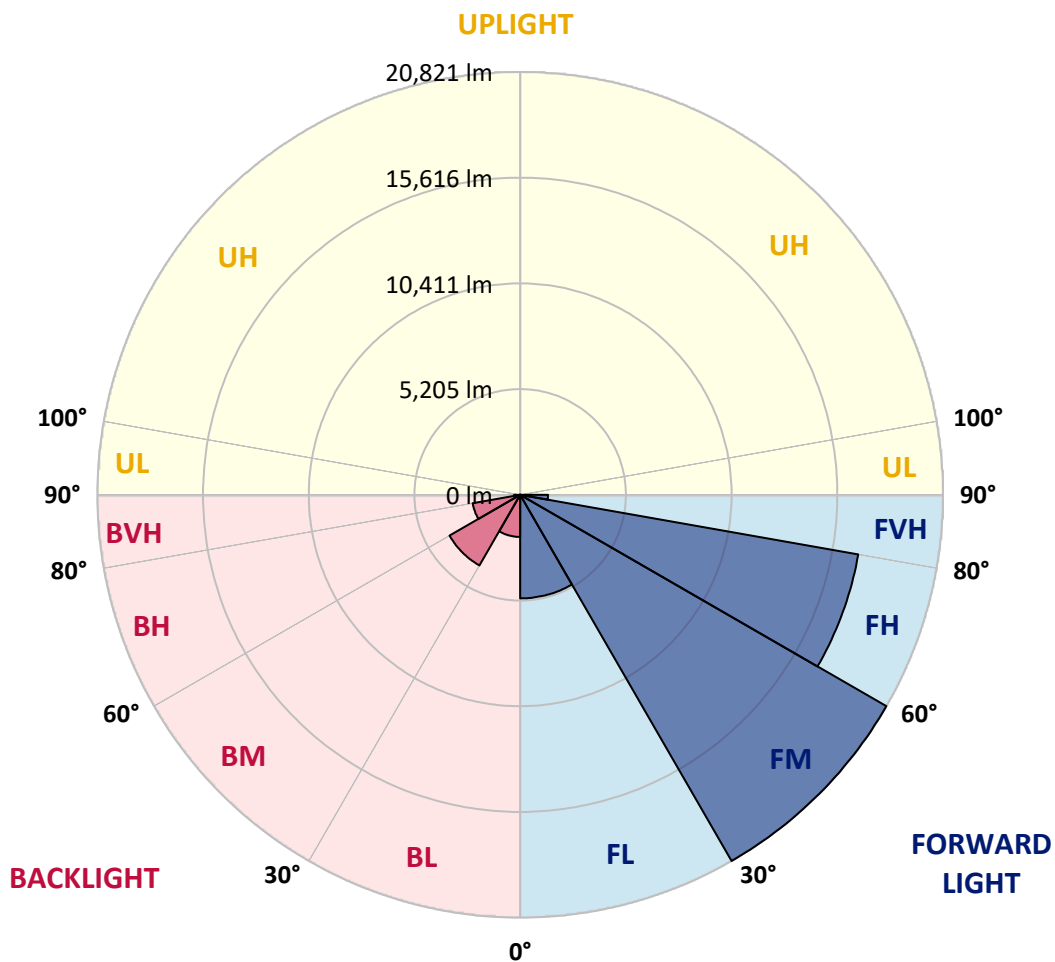
CATALOG NUMBER: GLEON-AF-10-LED-E1-SLL

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

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 5100.4  | 9.6       |                         |      |         |
| FM (30°-60°)   | 20821.1 | 39.3      |                         |      |         |
| FH (60°-80°)   | 16904.7 | 31.9      |                         |      | G5      |
| FVH (80°-90°)  | 1374.1  | 2.6       |                         |      | G5      |
| BL (0°-30°)    | 2073.7  | 3.9       | B3/2500                 |      |         |
| BM (30°-60°)   | 4016.1  | 7.6       | B3/5000                 |      |         |
| BH (60°-80°)   | 2376.2  | 4.5       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 299.1   | 0.6       |                         |      | G3/500  |
| 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°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 17894.6 | 17894.6 | 17894.6 | 17894.6 | 17894.6 | 17894.6 | 17894.6 | 17894.6 | 17894.6 | 17894.6 | 17894.6 |
| 2.5°  | 18593.4 | 18890.3 | 19469.7 | 19903.6 | 20430.5 | 20552.8 | 20721.7 | 20555.7 | 20261.7 | 19871.5 | 19743.4 |
| 5°    | 17484.0 | 18118.7 | 19525.1 | 20762.4 | 21863.0 | 22375.4 | 22518.1 | 22095.9 | 21242.8 | 20121.9 | 19437.7 |
| 7.5°  | 15705.1 | 16607.6 | 18511.8 | 20334.4 | 21956.2 | 22914.1 | 22890.8 | 21909.6 | 20340.3 | 18514.7 | 17417.1 |
| 10°   | 14170.6 | 15201.4 | 17385.0 | 19423.1 | 21143.9 | 22072.6 | 21714.5 | 20459.6 | 18587.5 | 16485.4 | 15294.5 |
| 12.5° | 13311.8 | 14322.0 | 16537.7 | 18584.6 | 20022.9 | 20343.2 | 20069.5 | 18840.8 | 17076.4 | 14950.9 | 13908.6 |
| 15°   | 13163.2 | 14272.5 | 16200.0 | 17865.4 | 18671.9 | 18392.5 | 18066.3 | 17516.0 | 16269.9 | 14455.9 | 13370.0 |
| 17.5° | 13806.7 | 15029.5 | 16587.2 | 17364.6 | 17227.8 | 16741.5 | 16648.4 | 16709.5 | 16409.7 | 15006.3 | 13754.3 |
| 20°   | 15041.2 | 16508.6 | 17510.3 | 17128.8 | 16130.1 | 15460.5 | 15483.8 | 16418.4 | 17306.4 | 16400.9 | 14971.3 |
| 22.5° | 16773.6 | 18447.7 | 18840.8 | 17254.0 | 15667.2 | 14872.4 | 15064.5 | 16578.6 | 18736.0 | 18439.0 | 16613.4 |
| 25°   | 19015.5 | 20541.2 | 20258.7 | 17708.2 | 15713.8 | 14945.1 | 15099.5 | 17131.7 | 20424.7 | 20477.1 | 18645.7 |
| 27.5° | 21187.6 | 22602.5 | 21449.5 | 18310.9 | 15906.0 | 15116.9 | 15320.7 | 18002.3 | 22037.7 | 22689.9 | 20969.2 |
| 30°   | 22882.1 | 23866.2 | 21921.2 | 18861.2 | 16284.5 | 15451.8 | 15705.1 | 18829.1 | 22771.4 | 24183.6 | 22756.9 |
| 32.5° | 24285.5 | 24992.9 | 22672.5 | 19542.5 | 16980.3 | 15978.7 | 16424.2 | 19833.7 | 23828.3 | 25604.4 | 24506.7 |
| 35°   | 26079.0 | 26279.9 | 23607.0 | 20302.4 | 18054.7 | 16895.9 | 17449.1 | 20817.8 | 24835.7 | 27039.8 | 26230.4 |
| 37.5° | 28181.2 | 27922.0 | 24489.2 | 21341.8 | 19443.5 | 18331.3 | 18788.4 | 21898.0 | 25665.5 | 28667.4 | 27991.9 |
| 40°   | 30260.0 | 29636.9 | 25595.7 | 22954.8 | 21470.0 | 20022.9 | 20564.5 | 23051.0 | 26440.0 | 30297.9 | 29712.6 |
| 42.5° | 32027.4 | 31104.4 | 26687.5 | 24728.0 | 23356.6 | 21889.2 | 22535.6 | 24212.6 | 27179.6 | 31689.6 | 31206.2 |
| 45°   | 33334.6 | 32187.5 | 27726.9 | 26431.3 | 25956.7 | 24369.9 | 24675.6 | 25543.3 | 27980.3 | 32851.3 | 32434.9 |
| 47.5° | 34502.2 | 33276.4 | 28903.2 | 28149.2 | 28230.7 | 27595.9 | 27103.9 | 27092.2 | 28923.6 | 33800.4 | 33596.7 |
| 50°   | 36065.7 | 34787.5 | 30166.8 | 29919.4 | 31643.0 | 31220.9 | 30134.8 | 28900.3 | 30117.3 | 34877.7 | 34854.5 |
| 52.5° | 38220.2 | 37180.8 | 31709.9 | 31826.5 | 34828.3 | 35104.9 | 33759.7 | 31072.3 | 31986.5 | 36854.7 | 36714.9 |
| 55°   | 40767.9 | 40162.3 | 33812.1 | 34018.8 | 38735.6 | 38933.6 | 37597.1 | 33788.8 | 34735.1 | 39716.8 | 39329.6 |
| 57.5° | 42756.5 | 42628.4 | 36118.0 | 36650.9 | 41653.0 | 42543.9 | 41315.2 | 36933.3 | 37833.0 | 42127.6 | 41155.2 |
| 60°   | 43548.4 | 44168.6 | 38572.5 | 39306.3 | 44352.0 | 45339.0 | 44261.8 | 39696.4 | 40578.6 | 43126.3 | 41029.9 |
| 62.5° | 43120.4 | 44506.3 | 41187.2 | 41126.0 | 44954.7 | 46017.4 | 45260.5 | 41233.7 | 42613.8 | 42095.6 | 38954.0 |
| 65°   | 41143.5 | 43292.2 | 42704.1 | 40657.3 | 42893.4 | 42980.7 | 42736.1 | 40546.6 | 43094.3 | 38837.5 | 34941.9 |
| 67.5° | 36837.3 | 39929.4 | 40706.7 | 36639.2 | 37332.2 | 36764.4 | 36353.9 | 36784.8 | 40590.3 | 33954.8 | 29366.2 |
| 70°   | 30003.8 | 34656.4 | 35029.1 | 29305.0 | 28990.5 | 28609.2 | 27791.0 | 30158.1 | 35649.3 | 27828.9 | 23301.3 |
| 72.5° | 22061.0 | 26952.4 | 28096.7 | 21493.2 | 20037.5 | 20116.0 | 19469.7 | 22727.7 | 28984.7 | 20672.2 | 17396.7 |
| 75°   | 15093.6 | 19516.3 | 21982.4 | 14997.5 | 13250.6 | 13282.6 | 13201.1 | 16103.9 | 23085.9 | 14380.2 | 13017.7 |
| 77.5° | 11026.2 | 13943.5 | 16578.6 | 10082.8 | 9788.7  | 9608.2  | 9564.5  | 11267.8 | 17699.5 | 10441.0 | 10109.0 |
| 80°   | 8848.3  | 10301.1 | 11136.8 | 6987.8  | 7514.8  | 7500.2  | 7258.6  | 7747.7  | 11558.9 | 7637.0  | 7561.3  |
| 82.5° | 6137.6  | 7916.6  | 9022.9  | 5476.7  | 5072.0  | 4987.5  | 5045.8  | 5770.8  | 8169.9  | 5220.4  | 4964.3  |
| 85°   | 3237.6  | 5258.3  | 8935.6  | 4853.6  | 3010.5  | 2402.1  | 2987.3  | 4725.5  | 7078.0  | 2766.0  | 2422.4  |
| 87.5° | 413.5   | 1519.8  | 5916.3  | 1936.2  | 1188.0  | 640.6   | 1417.9  | 2661.2  | 4545.0  | 564.9   | 492.0   |
| 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):**

|       | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°    | 165°    | 175°    | 180°    | 185°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 17894.6 | 17894.6 | 17894.6 | 17894.6 | 17894.6 | 17894.6 | 17894.6 | 17894.6 | 17894.6 | 17894.6 | 17894.6 |
| 2.5°  | 19414.4 | 19027.2 | 18520.5 | 18051.8 | 17565.5 | 17082.3 | 16450.4 | 16054.4 | 15780.8 | 15728.3 | 15611.9 |
| 5°    | 18942.7 | 17655.8 | 16683.3 | 15841.9 | 15079.0 | 14001.7 | 13404.8 | 12909.9 | 12645.0 | 12618.8 | 12554.7 |
| 7.5°  | 16767.8 | 14991.7 | 13678.6 | 12487.8 | 11407.5 | 10537.0 | 9576.1  | 9127.8  | 8944.4  | 8988.1  | 9031.7  |
| 10°   | 14505.4 | 12519.8 | 11011.6 | 9794.5  | 8842.5  | 8108.7  | 7337.2  | 6816.0  | 6454.9  | 6382.2  | 6367.7  |
| 12.5° | 12851.7 | 10673.9 | 9209.3  | 8350.3  | 7613.7  | 6923.7  | 6105.6  | 5491.2  | 5022.5  | 4862.3  | 4754.6  |
| 15°   | 12153.0 | 9771.2  | 8236.8  | 7310.9  | 6498.6  | 5622.2  | 4862.3  | 4218.9  | 3788.0  | 3648.3  | 3569.6  |
| 17.5° | 12301.4 | 9520.8  | 7567.2  | 6382.2  | 5342.8  | 4428.5  | 3470.6  | 2920.3  | 2661.2  | 2594.2  | 2594.2  |
| 20°   | 13081.7 | 9474.3  | 7014.0  | 5526.2  | 4230.5  | 3170.7  | 2384.6  | 2070.1  | 1985.6  | 1977.0  | 2000.3  |
| 22.5° | 14176.5 | 9637.3  | 6600.6  | 4783.7  | 3287.2  | 2314.7  | 1857.6  | 1741.2  | 1703.3  | 1712.0  | 1738.2  |
| 25°   | 15806.9 | 10187.6 | 6300.7  | 4122.8  | 2579.7  | 1895.4  | 1656.7  | 1586.8  | 1569.3  | 1592.6  | 1624.7  |
| 27.5° | 17740.2 | 10737.9 | 6114.3  | 3624.9  | 2177.9  | 1732.4  | 1575.1  | 1502.4  | 1514.1  | 1543.1  | 1572.3  |
| 30°   | 19437.7 | 11189.1 | 5820.3  | 3269.7  | 2052.7  | 1741.2  | 1575.1  | 1476.1  | 1464.6  | 1470.4  | 1479.1  |
| 32.5° | 20960.5 | 11494.9 | 5476.7  | 2932.0  | 1770.2  | 1546.1  | 1470.4  | 1455.8  | 1391.7  | 1368.4  | 1371.4  |
| 35°   | 22273.5 | 11494.9 | 5269.9  | 2733.9  | 1586.8  | 1371.4  | 1249.0  | 1176.3  | 1144.3  | 1147.1  | 1179.2  |
| 37.5° | 23540.0 | 11264.8 | 5168.0  | 2623.4  | 1487.8  | 1304.4  | 1196.6  | 1132.6  | 1088.9  | 1080.2  | 1086.1  |
| 40°   | 24658.1 | 10930.0 | 5051.5  | 2576.7  | 1412.1  | 1263.7  | 1161.8  | 1109.3  | 1062.7  | 1048.2  | 1051.1  |
| 42.5° | 25554.8 | 10659.2 | 4923.5  | 2515.6  | 1365.5  | 1234.5  | 1138.4  | 1091.8  | 1039.4  | 1024.9  | 1021.9  |
| 45°   | 26524.4 | 10569.0 | 4754.6  | 2393.3  | 1388.9  | 1237.5  | 1132.6  | 1083.1  | 1030.7  | 1013.2  | 1007.4  |
| 47.5° | 27802.7 | 10851.5 | 4580.0  | 2247.7  | 1438.3  | 1252.0  | 1141.3  | 1083.1  | 1027.8  | 1013.2  | 1007.4  |
| 50°   | 29412.7 | 11515.3 | 4358.6  | 2035.2  | 1388.9  | 1292.7  | 1138.4  | 1074.4  | 1027.8  | 1013.2  | 1001.6  |
| 52.5° | 31480.0 | 12412.1 | 4067.5  | 1790.6  | 1359.7  | 1391.7  | 1132.6  | 1056.9  | 1013.2  | 992.9   | 972.4   |
| 55°   | 33992.7 | 13145.7 | 3721.0  | 1589.8  | 1292.7  | 1365.5  | 1123.9  | 1036.6  | 989.9   | 960.9   | 943.4   |
| 57.5° | 35832.7 | 13410.7 | 3275.5  | 1458.7  | 1199.6  | 1321.9  | 1112.3  | 1010.3  | 960.9   | 937.5   | 914.2   |
| 60°   | 35468.8 | 12898.3 | 2900.0  | 1377.2  | 1144.3  | 1193.8  | 1103.5  | 987.0   | 934.6   | 917.2   | 896.7   |
| 62.5° | 32554.3 | 11558.9 | 2658.2  | 1339.3  | 1109.3  | 1088.9  | 1112.3  | 963.7   | 911.3   | 893.9   | 888.0   |
| 65°   | 28184.0 | 9582.0  | 2562.2  | 1330.6  | 1080.2  | 1027.8  | 1033.6  | 937.5   | 885.2   | 870.5   | 864.7   |
| 67.5° | 23248.9 | 7733.1  | 2477.8  | 1359.7  | 1042.4  | 984.1   | 955.0   | 902.5   | 858.9   | 844.3   | 832.7   |
| 70°   | 18334.1 | 6431.7  | 2439.9  | 1342.2  | 995.7   | 940.4   | 908.4   | 864.7   | 826.9   | 812.3   | 803.6   |
| 72.5° | 14764.6 | 5433.0  | 2419.5  | 1324.7  | 934.6   | 882.2   | 853.1   | 815.3   | 774.5   | 768.6   | 760.0   |
| 75°   | 12493.6 | 4271.3  | 2215.7  | 1269.5  | 864.7   | 812.3   | 792.0   | 757.0   | 716.3   | 716.3   | 710.4   |
| 77.5° | 9637.3  | 3089.2  | 1843.1  | 1123.9  | 792.0   | 733.8   | 716.3   | 690.1   | 643.4   | 652.2   | 649.3   |
| 80°   | 7118.8  | 2014.8  | 1441.2  | 931.7   | 701.6   | 646.4   | 637.6   | 611.4   | 561.9   | 573.6   | 573.6   |
| 82.5° | 4876.9  | 1321.9  | 1036.6  | 762.8   | 599.8   | 547.4   | 547.4   | 521.2   | 465.9   | 471.7   | 489.2   |
| 85°   | 2448.6  | 908.4   | 774.5   | 591.1   | 465.9   | 439.7   | 439.7   | 419.3   | 364.0   | 366.8   | 390.2   |
| 87.5° | 745.3   | 547.4   | 512.4   | 422.2   | 334.8   | 329.0   | 314.5   | 299.9   | 264.9   | 262.1   | 276.6   |
| 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):**

|       | 195°    | 205°    | 215°    | 225°    | 235°    | 245°    | 255°    | 265°    | 270°    | 275°    | 285°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 17894.6 | 17894.6 | 17894.6 | 17894.6 | 17894.6 | 17894.6 | 17894.6 | 17894.6 | 17894.6 | 17894.6 | 17894.6 |
| 2.5°  | 15434.3 | 15268.3 | 15067.3 | 14624.8 | 14476.4 | 14467.6 | 14601.5 | 14461.8 | 14729.7 | 14616.1 | 14741.3 |
| 5°    | 12447.0 | 12283.9 | 12059.8 | 11494.9 | 11151.3 | 10918.4 | 10807.8 | 10481.7 | 10717.6 | 10545.7 | 10688.4 |
| 7.5°  | 9154.0  | 9191.8  | 9043.4  | 8711.4  | 7963.2  | 7587.5  | 7366.3  | 7168.3  | 7340.1  | 7322.6  | 7596.3  |
| 10°   | 6434.6  | 6536.5  | 6431.7  | 6096.8  | 5491.2  | 5284.5  | 5325.3  | 5403.8  | 5628.1  | 5744.6  | 6166.8  |
| 12.5° | 4632.3  | 4626.5  | 4559.5  | 4259.7  | 3860.7  | 3884.0  | 4050.0  | 4186.8  | 4393.6  | 4515.8  | 4946.8  |
| 15°   | 3458.9  | 3406.5  | 3377.5  | 3132.9  | 2905.8  | 2955.2  | 3036.7  | 3051.4  | 3182.4  | 3255.1  | 3604.6  |
| 17.5° | 2614.6  | 2640.7  | 2672.9  | 2498.1  | 2326.4  | 2294.3  | 2230.2  | 2151.7  | 2189.5  | 2204.0  | 2378.8  |
| 20°   | 2076.0  | 2180.7  | 2259.4  | 2137.0  | 1962.4  | 1869.2  | 1787.7  | 1735.3  | 1735.3  | 1732.4  | 1781.9  |
| 22.5° | 1813.9  | 1889.6  | 1974.1  | 1889.6  | 1732.4  | 1650.8  | 1604.3  | 1563.5  | 1557.6  | 1557.6  | 1604.3  |
| 25°   | 1671.2  | 1726.5  | 1808.1  | 1749.9  | 1633.3  | 1572.3  | 1528.6  | 1476.1  | 1455.8  | 1449.9  | 1481.9  |
| 27.5° | 1601.3  | 1624.7  | 1665.5  | 1613.0  | 1514.1  | 1484.9  | 1473.3  | 1426.7  | 1400.4  | 1385.9  | 1417.9  |
| 30°   | 1481.9  | 1476.1  | 1479.1  | 1426.7  | 1348.0  | 1345.2  | 1365.5  | 1374.2  | 1365.5  | 1362.6  | 1412.1  |
| 32.5° | 1371.4  | 1359.7  | 1356.8  | 1310.2  | 1237.5  | 1220.0  | 1237.5  | 1254.9  | 1275.3  | 1304.4  | 1362.6  |
| 35°   | 1231.6  | 1260.7  | 1278.2  | 1237.5  | 1150.1  | 1097.6  | 1077.3  | 1045.3  | 1027.8  | 1027.8  | 1094.8  |
| 37.5° | 1120.9  | 1188.0  | 1214.1  | 1176.3  | 1080.2  | 1007.4  | 972.4   | 966.7   | 969.6   | 981.2   | 1045.3  |
| 40°   | 1083.1  | 1132.6  | 1155.9  | 1118.1  | 1021.9  | 955.0   | 934.6   | 928.8   | 934.6   | 952.1   | 1016.1  |
| 42.5° | 1059.8  | 1094.8  | 1091.8  | 1045.3  | 966.7   | 920.0   | 908.4   | 902.5   | 908.4   | 925.9   | 995.7   |
| 45°   | 1039.4  | 1062.7  | 1039.4  | 984.1   | 911.3   | 888.0   | 891.0   | 888.0   | 893.9   | 911.3   | 978.2   |
| 47.5° | 1021.9  | 1030.7  | 1001.6  | 946.2   | 870.5   | 864.7   | 876.4   | 885.2   | 891.0   | 905.5   | 975.4   |
| 50°   | 995.7   | 995.7   | 969.6   | 911.3   | 835.6   | 838.5   | 853.1   | 873.5   | 876.4   | 893.9   | 949.2   |
| 52.5° | 963.7   | 960.9   | 943.4   | 888.0   | 806.5   | 815.3   | 815.3   | 838.5   | 844.3   | 864.7   | 923.0   |
| 55°   | 937.5   | 931.7   | 923.0   | 870.5   | 780.3   | 794.8   | 786.1   | 794.8   | 809.5   | 829.8   | 893.9   |
| 57.5° | 914.2   | 902.5   | 902.5   | 856.0   | 760.0   | 765.8   | 745.3   | 757.0   | 774.5   | 792.0   | 858.9   |
| 60°   | 891.0   | 879.3   | 885.2   | 835.6   | 727.9   | 722.1   | 713.3   | 736.6   | 742.5   | 762.8   | 829.8   |
| 62.5° | 864.7   | 856.0   | 858.9   | 812.3   | 704.6   | 690.1   | 690.1   | 710.4   | 713.3   | 742.5   | 806.5   |
| 65°   | 844.3   | 832.7   | 829.8   | 789.0   | 678.4   | 660.9   | 669.6   | 678.4   | 684.3   | 713.3   | 774.5   |
| 67.5° | 824.0   | 800.7   | 800.7   | 768.6   | 649.3   | 631.8   | 649.3   | 646.4   | 655.1   | 681.3   | 730.8   |
| 70°   | 797.8   | 765.8   | 768.6   | 754.1   | 620.2   | 599.8   | 614.4   | 611.4   | 617.2   | 634.7   | 684.3   |
| 72.5° | 757.0   | 730.8   | 736.6   | 730.8   | 591.1   | 561.9   | 567.7   | 567.7   | 567.7   | 582.4   | 634.7   |
| 75°   | 704.6   | 684.3   | 701.6   | 716.3   | 556.1   | 515.4   | 521.2   | 521.2   | 512.4   | 521.2   | 585.2   |
| 77.5° | 640.6   | 628.9   | 687.1   | 666.8   | 515.4   | 465.9   | 465.9   | 460.0   | 442.5   | 454.2   | 524.1   |
| 80°   | 570.7   | 561.9   | 634.7   | 559.0   | 468.7   | 404.7   | 398.8   | 384.3   | 366.8   | 375.6   | 445.5   |
| 82.5° | 497.9   | 489.2   | 532.9   | 428.0   | 404.7   | 334.8   | 320.3   | 294.1   | 276.6   | 285.3   | 349.4   |
| 85°   | 407.6   | 407.6   | 410.5   | 323.2   | 308.6   | 256.2   | 238.8   | 203.8   | 183.4   | 189.2   | 250.4   |
| 87.5° | 291.1   | 299.9   | 276.6   | 221.3   | 183.4   | 142.7   | 131.0   | 110.7   | 93.2    | 107.7   | 131.0   |
| 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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|       | 295°    | 305°    | 315°    | 325°    | 335°    | 345°    | 355°    | 360°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 17894.6 | 17894.6 | 17894.6 | 17894.6 | 17894.6 | 17894.6 | 17894.6 | 17894.6 |
| 2.5°  | 15381.8 | 15702.1 | 16066.1 | 16531.9 | 16930.9 | 17586.0 | 18214.8 | 18593.4 |
| 5°    | 11500.7 | 12033.6 | 12697.4 | 13550.5 | 14345.4 | 15539.0 | 16724.1 | 17484.0 |
| 7.5°  | 8231.1  | 8801.7  | 9517.9  | 10583.6 | 11707.5 | 13230.2 | 14796.6 | 15705.1 |
| 10°   | 6810.2  | 7395.4  | 7998.1  | 8717.3  | 9637.3  | 11294.0 | 13145.7 | 14170.6 |
| 12.5° | 5633.9  | 6259.8  | 6909.2  | 7666.2  | 8519.2  | 9998.3  | 12132.5 | 13311.8 |
| 15°   | 4312.0  | 5010.8  | 5776.6  | 6734.5  | 7803.1  | 9512.1  | 11882.2 | 13163.2 |
| 17.5° | 2955.2  | 3735.5  | 4676.0  | 5858.1  | 7165.4  | 9354.9  | 12330.5 | 13806.7 |
| 20°   | 2035.2  | 2602.9  | 3607.4  | 4993.3  | 6565.6  | 9334.5  | 13192.4 | 15041.2 |
| 22.5° | 1703.3  | 1956.6  | 2690.3  | 4198.5  | 6114.3  | 9584.9  | 14528.8 | 16773.6 |
| 25°   | 1575.1  | 1726.5  | 2148.7  | 3508.4  | 5785.3  | 10161.4 | 16368.8 | 19015.5 |
| 27.5° | 1499.4  | 1636.3  | 1950.8  | 3057.2  | 5526.2  | 10831.1 | 18159.5 | 21187.6 |
| 30°   | 1528.6  | 1668.3  | 1895.4  | 2827.1  | 5173.9  | 11390.0 | 19749.2 | 22882.1 |
| 32.5° | 1377.2  | 1438.3  | 1624.7  | 2623.4  | 4920.6  | 11858.9 | 21140.9 | 24285.5 |
| 35°   | 1173.3  | 1281.1  | 1449.9  | 2527.2  | 4926.4  | 12173.3 | 22657.8 | 26079.0 |
| 37.5° | 1118.1  | 1225.8  | 1348.0  | 2492.3  | 4993.3  | 12508.1 | 24399.0 | 28181.2 |
| 40°   | 1083.1  | 1182.1  | 1286.9  | 2472.0  | 5057.4  | 12813.9 | 26105.2 | 30260.0 |
| 42.5° | 1059.8  | 1150.1  | 1281.1  | 2402.1  | 5089.4  | 13087.5 | 27508.6 | 32027.4 |
| 45°   | 1056.9  | 1150.1  | 1304.4  | 2332.1  | 5138.9  | 13381.6 | 28684.9 | 33334.6 |
| 47.5° | 1059.8  | 1188.0  | 1260.7  | 2247.7  | 5138.9  | 13873.7 | 30064.9 | 34502.2 |
| 50°   | 1048.2  | 1252.0  | 1214.1  | 2128.4  | 5019.5  | 14805.4 | 31957.5 | 36065.7 |
| 52.5° | 1042.4  | 1243.2  | 1123.9  | 1944.9  | 4812.9  | 16284.5 | 34382.8 | 38220.2 |
| 55°   | 1027.8  | 1199.6  | 1059.8  | 1671.2  | 4571.2  | 17897.4 | 36979.9 | 40767.9 |
| 57.5° | 1013.2  | 1062.7  | 1024.9  | 1432.5  | 4198.5  | 19032.9 | 38767.6 | 42756.5 |
| 60°   | 1135.5  | 928.8   | 995.7   | 1316.0  | 3700.6  | 19344.5 | 38697.7 | 43548.4 |
| 62.5° | 1051.1  | 870.5   | 957.9   | 1289.8  | 3351.2  | 18471.0 | 36910.0 | 43120.4 |
| 65°   | 824.0   | 832.7   | 920.0   | 1365.5  | 3258.1  | 16156.3 | 33742.2 | 41143.5 |
| 67.5° | 754.1   | 794.8   | 882.2   | 1461.6  | 3266.8  | 12936.1 | 29008.0 | 36837.3 |
| 70°   | 710.4   | 754.1   | 838.5   | 1511.1  | 3290.1  | 9643.2  | 22934.5 | 30003.8 |
| 72.5° | 660.9   | 698.8   | 789.0   | 1519.8  | 3138.7  | 7005.3  | 17676.2 | 22061.0 |
| 75°   | 602.7   | 637.6   | 719.1   | 1324.7  | 2600.0  | 4859.4  | 13521.4 | 15093.6 |
| 77.5° | 535.7   | 561.9   | 631.8   | 1021.9  | 1930.4  | 3109.6  | 10149.7 | 11026.2 |
| 80°   | 457.2   | 471.7   | 529.9   | 748.3   | 1321.9  | 1944.9  | 8030.2  | 8848.3  |
| 82.5° | 366.8   | 372.7   | 410.5   | 561.9   | 858.9   | 1249.0  | 5377.7  | 6137.6  |
| 85°   | 259.1   | 259.1   | 282.4   | 407.6   | 585.2   | 792.0   | 2920.3  | 3237.6  |
| 87.5° | 122.2   | 125.2   | 125.2   | 224.2   | 305.8   | 401.8   | 672.6   | 413.5   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)