

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: P191425

Luminaire Tested: **GLEON-AF-07-LED-E1-T2R-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191425  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24657)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-07-LED-E1-T2R-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 49221.3 lumens  
Efficiency: N/A  
Efficacy: 109.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B3 - U0 - G5

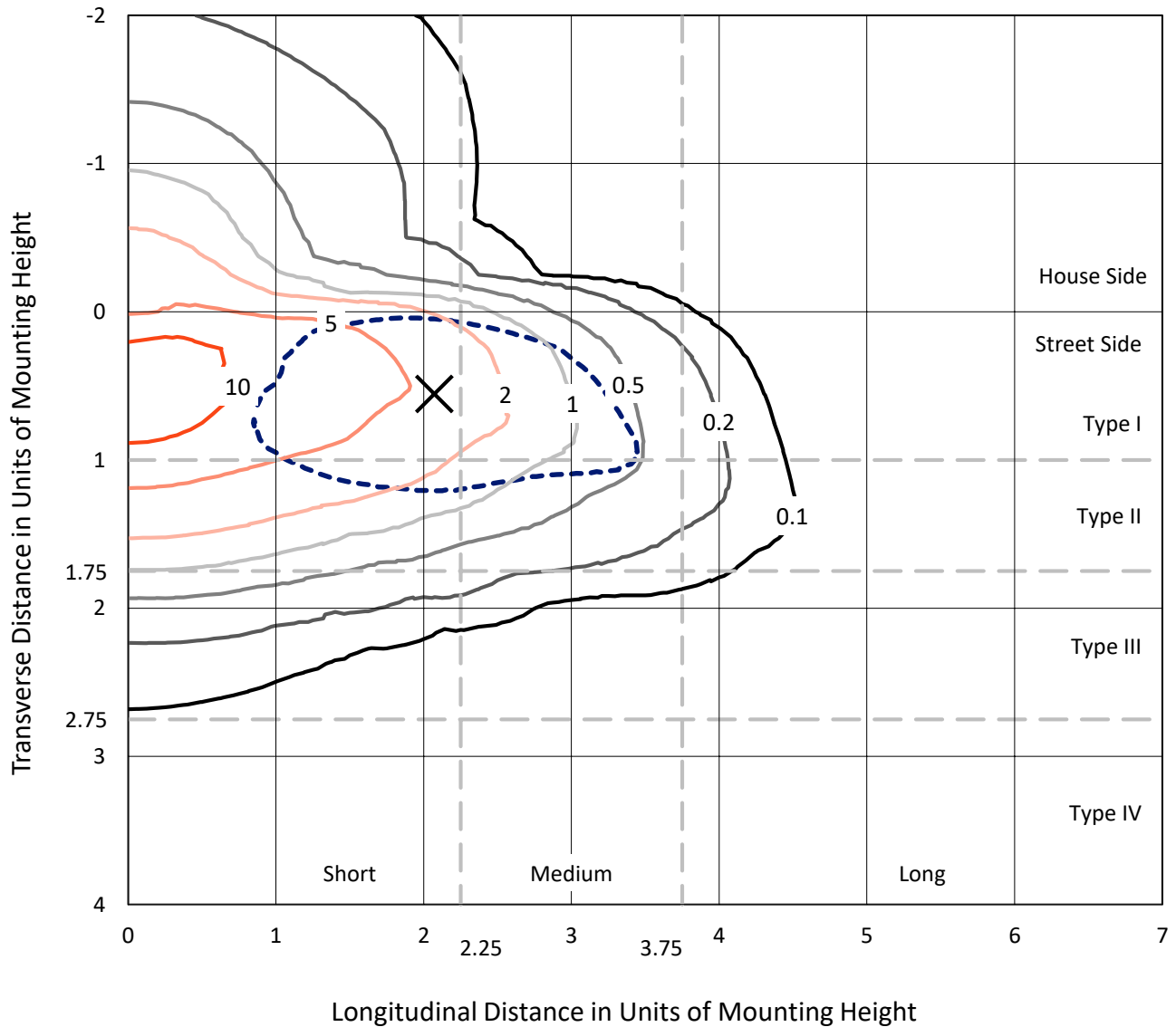
Input Watts (W): 448  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

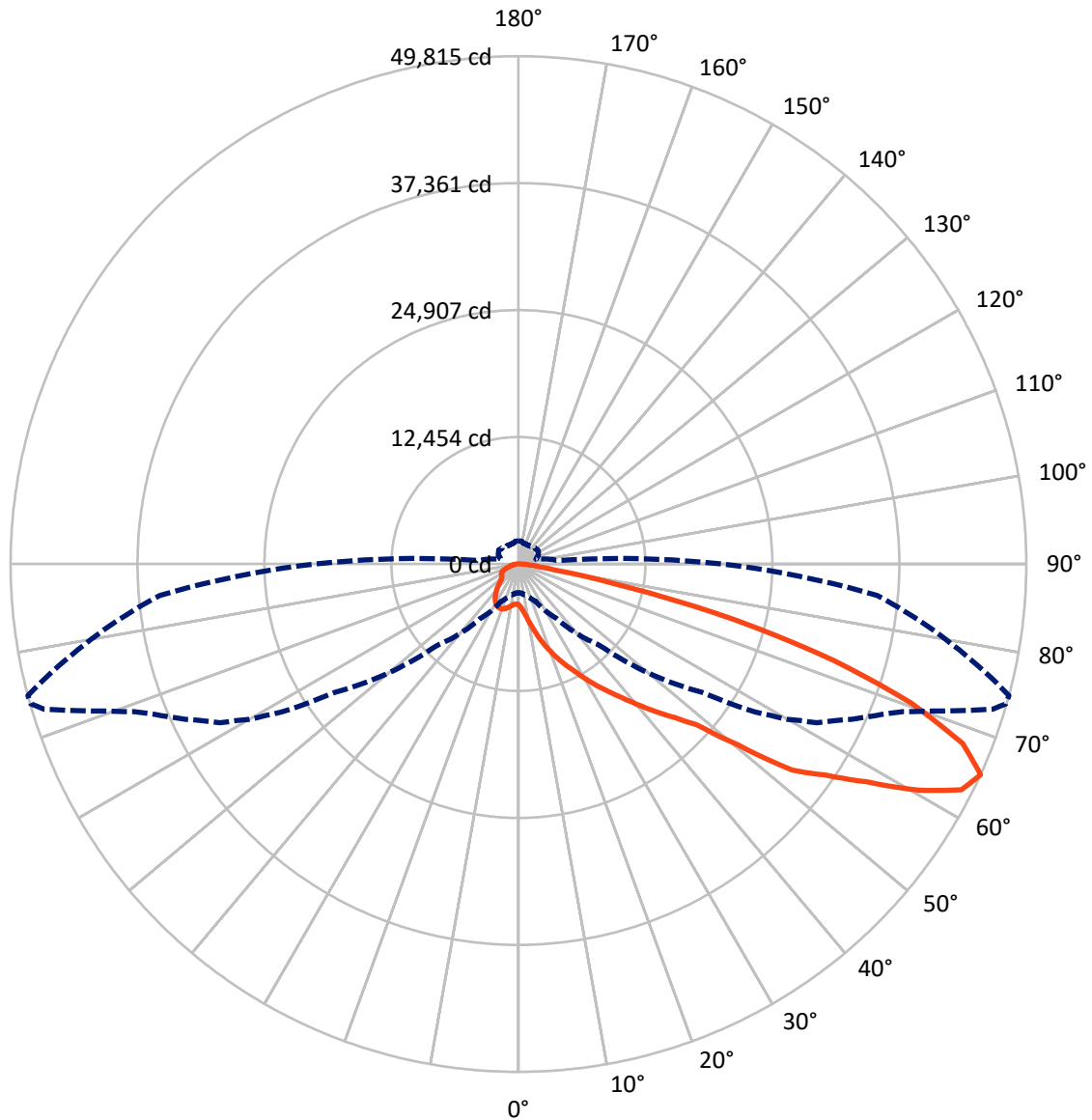
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.8 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7588.8   | 0.0    | 7588.8  |
|                    | % Fixture | 15.4     | 0.0    | 15.4    |
| <b>Street Side</b> | Lumens    | 41632.6  | 0.0    | 41632.6 |
|                    | % Fixture | 84.6     | 0.0    | 84.6    |
| <b>Total</b>       | Lumens    | 49221.3  | 0.0    | 49221.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 494.4   | 1.0       |
| 10°-20°   | 1931.9  | 3.9       |
| 20°-30°   | 3963.6  | 8.1       |
| 30°-40°   | 6668.5  | 13.5      |
| 40°-50°   | 9214.0  | 18.7      |
| 50°-60°   | 11501.8 | 23.4      |
| 60°-70°   | 10350.4 | 21.0      |
| 70°-80°   | 4338.8  | 8.8       |
| 80°-90°   | 758.0   | 1.5       |
| 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°    | 49221.3 | 100.0     |
| 0°-180°   | 49221.3 | 100.0     |



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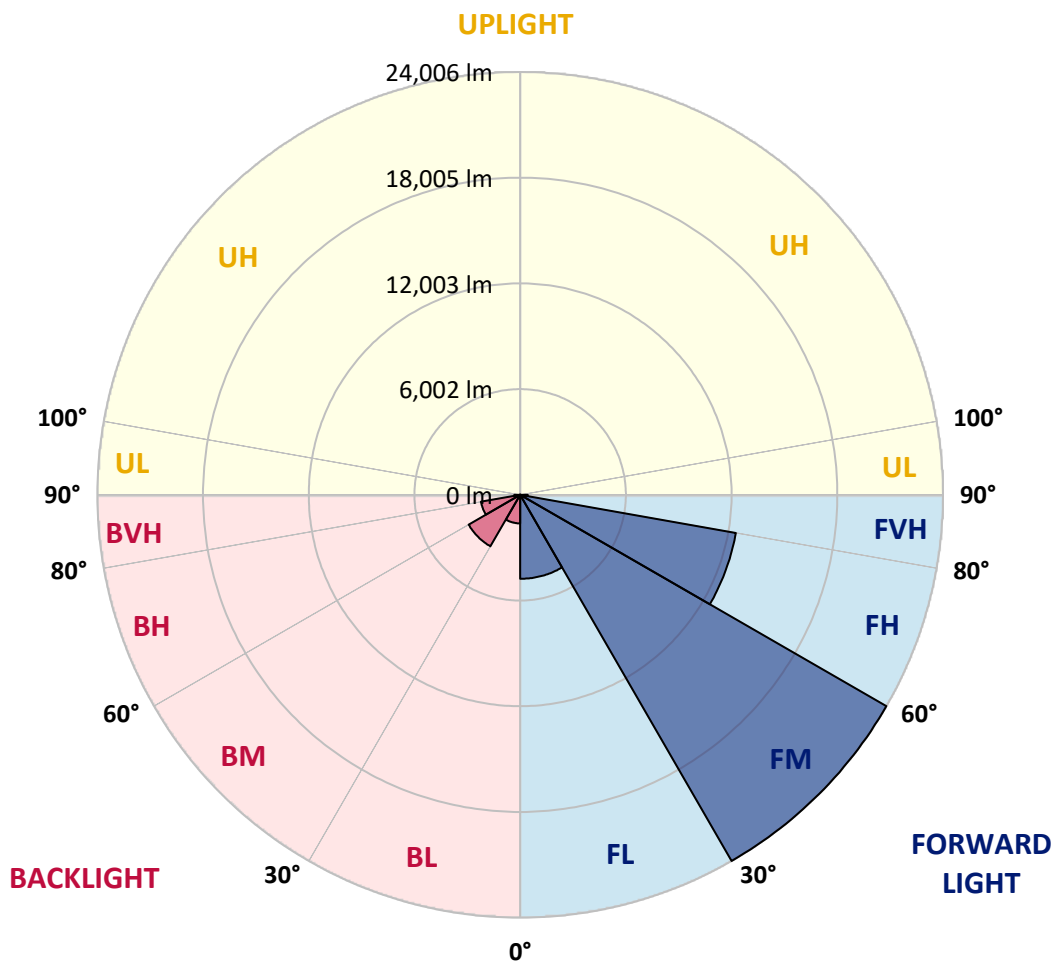
CATALOG NUMBER: GLEON-AF-07-LED-E1-T2R-1200

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

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 4766.9  | 9.7       |                         |      |         |
| FM (30°-60°)   | 24006.4 | 48.8      |                         |      |         |
| FH (60°-80°)   | 12433.1 | 25.3      |                         |      | G5      |
| FVH (80°-90°)  | 426.1   | 0.9       |                         |      | G3/500  |
| BL (0°-30°)    | 1622.9  | 3.3       | B3/2500                 |      |         |
| BM (30°-60°)   | 3377.9  | 6.9       | B3/5000                 |      |         |
| BH (60°-80°)   | 2256.0  | 4.6       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 331.9   | 0.7       |                         |      | 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 II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 56°     | 57°     | 58°     | 59°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4000.1  | 4000.1  | 4000.1  | 4000.1  | 4000.1  | 4000.1  | 4000.1  | 4000.1  | 4000.1  | 4000.1  | 4000.1  |
| 2.5°  | 5078.8  | 5022.9  | 5036.9  | 4943.7  | 4829.6  | 4680.4  | 4515.0  | 4512.7  | 4515.0  | 4498.7  | 4438.2  |
| 5°    | 7042.8  | 6975.3  | 6949.6  | 6739.9  | 6432.4  | 5994.4  | 5519.1  | 5467.9  | 5446.9  | 5393.4  | 5269.9  |
| 7.5°  | 8475.7  | 8438.3  | 8398.7  | 8240.3  | 7960.7  | 7471.5  | 6833.1  | 6723.7  | 6618.8  | 6593.2  | 6453.4  |
| 10°   | 9400.5  | 9391.2  | 9307.3  | 9265.4  | 9090.7  | 8666.6  | 8044.6  | 7939.7  | 7825.6  | 7786.0  | 7639.2  |
| 12.5° | 10132.0 | 10129.8 | 10090.1 | 10101.7 | 9950.3  | 9642.8  | 9107.0  | 9011.5  | 8927.6  | 8806.5  | 8701.6  |
| 15°   | 10637.7 | 10639.9 | 10698.2 | 10763.4 | 10740.2 | 10532.8 | 10029.5 | 9987.6  | 9915.4  | 9831.5  | 9708.0  |
| 17.5° | 11052.3 | 11063.9 | 11124.5 | 11243.4 | 11371.5 | 11355.2 | 10956.8 | 10921.8 | 10858.9 | 10744.8 | 10679.6 |
| 20°   | 11988.9 | 12033.2 | 11916.7 | 11916.7 | 11930.7 | 11993.5 | 11802.5 | 11774.6 | 11686.0 | 11625.4 | 11574.2 |
| 22.5° | 13570.8 | 13622.0 | 13358.7 | 13090.8 | 12827.6 | 12636.5 | 12445.5 | 12480.4 | 12419.9 | 12377.9 | 12347.6 |
| 25°   | 15625.6 | 15665.3 | 15238.9 | 14786.9 | 14251.0 | 13552.2 | 13079.2 | 13058.3 | 13025.6 | 13000.0 | 12986.1 |
| 27.5° | 17559.3 | 17575.6 | 17172.6 | 16510.9 | 15888.9 | 14884.8 | 13722.2 | 13696.6 | 13657.0 | 13608.0 | 13566.1 |
| 30°   | 19213.4 | 19208.8 | 18794.1 | 18162.7 | 17496.3 | 16385.1 | 14698.4 | 14619.2 | 14502.7 | 14369.9 | 14267.4 |
| 32.5° | 20646.2 | 20639.3 | 20185.0 | 19530.3 | 18831.3 | 17871.5 | 16035.7 | 15872.5 | 15690.8 | 15432.2 | 15276.1 |
| 35°   | 21773.8 | 21769.1 | 21340.5 | 20657.9 | 19856.4 | 19271.7 | 17568.6 | 17368.3 | 17137.6 | 16790.5 | 16550.5 |
| 37.5° | 22200.2 | 22200.2 | 21960.2 | 21494.2 | 20786.0 | 20385.3 | 19271.7 | 19029.3 | 18782.4 | 18388.7 | 18118.4 |
| 40°   | 21950.9 | 21955.5 | 22006.7 | 21920.6 | 21575.8 | 21268.3 | 20860.5 | 20716.1 | 20504.1 | 20150.0 | 19868.1 |
| 42.5° | 21114.5 | 21140.1 | 21480.2 | 21897.3 | 22069.7 | 22020.8 | 22270.0 | 22204.8 | 22055.7 | 21783.1 | 21559.5 |
| 45°   | 20054.4 | 20133.6 | 20506.4 | 21293.8 | 22207.1 | 22670.7 | 23451.2 | 23458.2 | 23430.3 | 23283.5 | 23111.1 |
| 47.5° | 18598.4 | 18710.2 | 19201.8 | 20266.5 | 21885.6 | 23302.1 | 24651.1 | 24714.0 | 24772.2 | 24676.6 | 24597.5 |
| 50°   | 16664.7 | 16797.5 | 17533.7 | 18945.5 | 21230.9 | 23956.8 | 26917.9 | 27202.1 | 27467.7 | 27435.1 | 27488.6 |
| 52.5° | 14593.5 | 14749.6 | 15651.2 | 17223.8 | 20105.7 | 24108.2 | 28367.0 | 28830.6 | 29294.2 | 29674.0 | 30077.0 |
| 55°   | 12725.1 | 12641.2 | 13542.8 | 15199.3 | 18255.9 | 23425.6 | 29669.4 | 30228.5 | 30745.7 | 31211.6 | 31691.5 |
| 57.5° | 10192.7 | 10330.1 | 11234.0 | 12871.9 | 15807.4 | 21498.9 | 30566.3 | 31384.0 | 32127.2 | 32898.3 | 33578.7 |
| 60°   | 7450.6  | 7587.9  | 8568.8  | 10232.3 | 13149.1 | 18577.4 | 29881.3 | 31120.7 | 32311.2 | 33492.4 | 34415.0 |
| 62.5° | 4498.7  | 4601.2  | 5465.6  | 7049.8  | 10139.1 | 15113.1 | 26829.3 | 28455.5 | 30207.5 | 31619.3 | 33033.4 |
| 65°   | 2800.3  | 2858.6  | 3177.8  | 4049.1  | 6511.6  | 11282.9 | 21920.6 | 23693.5 | 25580.6 | 27372.2 | 28842.3 |
| 67.5° | 2292.4  | 2313.4  | 2371.7  | 2558.1  | 3576.1  | 7357.4  | 16315.2 | 17885.5 | 19588.5 | 21321.9 | 22957.4 |
| 70°   | 2061.9  | 2047.8  | 2047.8  | 2059.5  | 2292.4  | 3956.0  | 10681.9 | 11704.6 | 13123.4 | 14630.9 | 16126.5 |
| 72.5° | 1861.5  | 1847.4  | 1821.9  | 1786.9  | 1870.8  | 2413.7  | 5521.5  | 6292.7  | 7315.4  | 8655.0  | 10087.8 |
| 75°   | 1672.7  | 1654.1  | 1623.8  | 1579.5  | 1637.8  | 1821.9  | 2651.3  | 2975.0  | 3473.6  | 4186.5  | 4985.7  |
| 77.5° | 1477.0  | 1453.7  | 1425.8  | 1393.2  | 1467.7  | 1416.5  | 1554.0  | 1670.5  | 1861.5  | 2089.8  | 2390.3  |
| 80°   | 1255.8  | 1234.8  | 1225.5  | 1209.1  | 1297.7  | 1078.7  | 1097.3  | 1169.5  | 1281.3  | 1404.8  | 1544.7  |
| 82.5° | 983.2   | 983.2   | 1020.4  | 1027.5  | 1125.2  | 775.8   | 820.1   | 883.0   | 941.2   | 1006.5  | 1071.6  |
| 85°   | 647.6   | 652.3   | 778.2   | 827.1   | 887.6   | 521.9   | 615.1   | 636.1   | 682.6   | 719.9   | 747.9   |
| 87.5° | 202.6   | 219.0   | 475.3   | 526.5   | 510.2   | 295.8   | 377.5   | 386.8   | 419.3   | 445.0   | 468.3   |
| 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):**

|       | 60°     | 61°     | 62°     | 63°     | 64°     | 65°     | 66°     | 67°     | 68°     | 69°     | 70°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4000.1  | 4000.1  | 4000.1  | 4000.1  | 4000.1  | 4000.1  | 4000.1  | 4000.1  | 4000.1  | 4000.1  | 4000.1  |
| 2.5°  | 4438.2  | 4410.2  | 4384.6  | 4382.2  | 4363.6  | 4338.0  | 4347.3  | 4307.7  | 4310.0  | 4289.0  | 4265.8  |
| 5°    | 5218.6  | 5200.0  | 5106.8  | 5081.2  | 5011.3  | 4967.0  | 4960.0  | 4866.8  | 4855.2  | 4801.6  | 4743.3  |
| 7.5°  | 6341.6  | 6281.0  | 6150.5  | 6087.6  | 5968.8  | 5880.2  | 5838.4  | 5714.8  | 5654.3  | 5514.5  | 5451.6  |
| 10°   | 7518.1  | 7441.3  | 7280.4  | 7192.0  | 7077.8  | 6935.6  | 6858.8  | 6679.4  | 6609.5  | 6481.3  | 6327.6  |
| 12.5° | 8608.4  | 8531.5  | 8366.1  | 8298.6  | 8147.1  | 7995.7  | 7911.8  | 7709.2  | 7618.2  | 7413.2  | 7292.1  |
| 15°   | 9617.2  | 9540.3  | 9395.9  | 9325.9  | 9174.5  | 9051.1  | 8939.3  | 8738.9  | 8631.7  | 8440.7  | 8282.2  |
| 17.5° | 10595.7 | 10514.2 | 10388.4 | 10325.5 | 10178.7 | 10052.8 | 9931.7  | 9743.0  | 9633.5  | 9442.4  | 9300.4  |
| 20°   | 11504.3 | 11443.8 | 11352.8 | 11269.0 | 11122.2 | 11008.1 | 10863.6 | 10700.5 | 10542.1 | 10402.3 | 10267.2 |
| 22.5° | 12296.4 | 12273.1 | 12175.3 | 12138.0 | 12012.2 | 11914.3 | 11788.5 | 11627.8 | 11513.6 | 11336.5 | 11210.7 |
| 25°   | 12979.0 | 12972.0 | 12925.4 | 12913.8 | 12825.2 | 12732.1 | 12704.1 | 12571.3 | 12466.5 | 12310.4 | 12179.9 |
| 27.5° | 13566.1 | 13573.1 | 13561.5 | 13594.1 | 13570.8 | 13528.8 | 13531.2 | 13486.9 | 13426.3 | 13295.9 | 13181.7 |
| 30°   | 14218.4 | 14181.2 | 14202.1 | 14248.7 | 14262.7 | 14267.4 | 14344.2 | 14369.9 | 14365.2 | 14279.1 | 14223.1 |
| 32.5° | 15141.0 | 15052.5 | 14971.0 | 14963.9 | 15010.6 | 15029.2 | 15159.6 | 15227.2 | 15285.4 | 15306.4 | 15315.7 |
| 35°   | 16317.5 | 16140.5 | 15970.4 | 15879.6 | 15800.3 | 15821.3 | 15914.5 | 16024.0 | 16152.1 | 16240.7 | 16345.5 |
| 37.5° | 17799.2 | 17582.6 | 17282.0 | 17067.7 | 17014.1 | 16897.6 | 16958.2 | 17044.4 | 17170.2 | 17307.7 | 17489.4 |
| 40°   | 19595.5 | 19267.0 | 18929.2 | 18644.9 | 18491.2 | 18276.9 | 18274.5 | 18258.2 | 18335.1 | 18463.2 | 18719.5 |
| 42.5° | 21324.1 | 21033.0 | 20674.1 | 20376.0 | 20175.6 | 19889.0 | 19830.8 | 19679.3 | 19714.3 | 19826.1 | 20075.4 |
| 45°   | 22943.4 | 22703.4 | 22484.4 | 22139.6 | 21969.5 | 21659.7 | 21561.8 | 21382.4 | 21282.2 | 21333.4 | 21582.7 |
| 47.5° | 24511.2 | 24357.5 | 24129.2 | 23905.5 | 23775.0 | 23497.8 | 23372.0 | 23243.9 | 23115.7 | 23111.1 | 23372.0 |
| 50°   | 27567.9 | 27486.4 | 27216.1 | 26983.1 | 27046.0 | 26705.9 | 26726.8 | 26382.0 | 26538.1 | 26556.8 | 27104.3 |
| 52.5° | 30440.5 | 30724.7 | 30925.0 | 31169.7 | 31328.1 | 31358.4 | 31463.2 | 31619.3 | 31808.0 | 32180.8 | 32688.7 |
| 55°   | 32085.3 | 32441.8 | 32649.1 | 32835.4 | 33143.0 | 33208.2 | 33383.0 | 33590.3 | 33755.7 | 34175.0 | 34606.0 |
| 57.5° | 34039.9 | 34701.6 | 35023.1 | 35318.9 | 35733.6 | 35892.1 | 36183.3 | 36409.3 | 36623.6 | 37119.8 | 37641.7 |
| 60°   | 35244.4 | 36050.5 | 36705.1 | 37173.4 | 37693.0 | 38065.7 | 38506.0 | 38860.2 | 39363.4 | 39957.5 | 40735.6 |
| 62.5° | 34286.9 | 35470.4 | 36339.4 | 37143.1 | 37849.1 | 38562.0 | 39193.3 | 39855.0 | 40619.1 | 41518.4 | 42725.2 |
| 65°   | 30473.1 | 31677.5 | 33166.3 | 34000.3 | 34934.6 | 36034.2 | 36994.0 | 38065.7 | 39107.1 | 40416.5 | 42201.0 |
| 67.5° | 24532.2 | 25932.4 | 27605.1 | 28446.2 | 29520.2 | 30748.0 | 31824.3 | 33133.7 | 34349.8 | 35936.4 | 38142.6 |
| 70°   | 17682.7 | 19492.9 | 20900.1 | 21778.4 | 23031.8 | 24296.9 | 25336.0 | 26859.6 | 27866.1 | 29492.3 | 31773.1 |
| 72.5° | 11196.8 | 12624.8 | 14348.9 | 15455.6 | 16569.1 | 17850.5 | 18912.9 | 20226.8 | 21165.8 | 22647.4 | 24714.0 |
| 75°   | 6020.1  | 7073.1  | 8587.5  | 9638.1  | 10831.0 | 11926.0 | 13170.1 | 14050.7 | 14744.9 | 15916.8 | 17594.2 |
| 77.5° | 2821.3  | 3462.0  | 4228.5  | 5036.9  | 5845.3  | 6688.7  | 7508.8  | 8221.7  | 8519.9  | 9190.8  | 10181.0 |
| 80°   | 1712.3  | 1919.7  | 2143.4  | 2392.7  | 2730.5  | 3003.1  | 3364.2  | 3625.1  | 3643.8  | 3855.7  | 4158.6  |
| 82.5° | 1143.9  | 1220.8  | 1288.3  | 1351.2  | 1437.5  | 1505.0  | 1581.9  | 1672.7  | 1710.1  | 1759.0  | 1856.8  |
| 85°   | 780.5   | 817.7   | 831.8   | 871.3   | 862.0   | 885.3   | 915.5   | 945.9   | 962.2   | 959.8   | 1004.1  |
| 87.5° | 480.0   | 498.6   | 507.9   | 517.2   | 510.2   | 500.9   | 514.9   | 531.2   | 535.8   | 521.9   | 526.5   |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 71°     | 72°     | 73°     | 74°     | 75°     | 85°     | 90°     | 95°    | 105°   | 115°   | 125°   |
|-------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0°    | 4000.1  | 4000.1  | 4000.1  | 4000.1  | 4000.1  | 4000.1  | 4000.1  | 4000.1 | 4000.1 | 4000.1 | 4000.1 |
| 2.5°  | 4270.4  | 4249.4  | 4228.5  | 4214.6  | 4209.9  | 4086.4  | 4032.8  | 3997.8 | 3923.3 | 3862.8 | 3813.8 |
| 5°    | 4710.8  | 4666.5  | 4631.5  | 4589.6  | 4566.4  | 4254.1  | 4140.0  | 4060.7 | 3930.3 | 3853.4 | 3783.5 |
| 7.5°  | 5419.0  | 5295.5  | 5223.3  | 5141.8  | 5071.9  | 4508.0  | 4319.3  | 4195.8 | 4014.2 | 3911.7 | 3832.4 |
| 10°   | 6222.7  | 6094.6  | 5980.5  | 5854.7  | 5745.2  | 4845.9  | 4571.0  | 4380.0 | 4140.0 | 4007.2 | 3902.4 |
| 12.5° | 7119.7  | 6993.9  | 6849.5  | 6688.7  | 6548.9  | 5274.5  | 4892.5  | 4619.9 | 4291.4 | 4114.3 | 3967.5 |
| 15°   | 8179.7  | 7958.5  | 7783.6  | 7597.3  | 7434.2  | 5787.1  | 5267.6  | 4890.1 | 4452.2 | 4212.2 | 4016.5 |
| 17.5° | 9165.2  | 8932.2  | 8694.6  | 8531.5  | 8342.8  | 6362.5  | 5644.9  | 5165.1 | 4585.0 | 4275.1 | 4025.8 |
| 20°   | 10127.4 | 9873.4  | 9668.4  | 9449.4  | 9251.5  | 6958.9  | 6048.0  | 5407.3 | 4671.1 | 4277.4 | 3967.5 |
| 22.5° | 10975.4 | 10817.0 | 10588.7 | 10351.0 | 10150.7 | 7555.4  | 6425.5  | 5612.3 | 4703.7 | 4223.9 | 3865.0 |
| 25°   | 11940.0 | 11772.2 | 11492.6 | 11292.3 | 11068.6 | 8163.5  | 6795.9  | 5770.8 | 4685.1 | 4123.6 | 3706.7 |
| 27.5° | 12969.7 | 12783.3 | 12496.8 | 12287.1 | 12016.8 | 8794.8  | 7136.0  | 5884.9 | 4615.2 | 3960.6 | 3494.6 |
| 30°   | 14043.7 | 13873.7 | 13591.7 | 13379.7 | 13107.2 | 9463.4  | 7515.7  | 5961.9 | 4475.4 | 3734.6 | 3247.7 |
| 32.5° | 15197.0 | 15054.9 | 14775.3 | 14553.9 | 14262.7 | 10188.0 | 7869.9  | 5985.1 | 4263.5 | 3466.7 | 2986.7 |
| 35°   | 16291.9 | 16194.0 | 15958.7 | 15751.4 | 15448.5 | 10872.9 | 8245.0  | 5973.4 | 4011.8 | 3173.1 | 2749.1 |
| 37.5° | 17524.4 | 17466.1 | 17349.7 | 17086.3 | 16715.9 | 11802.5 | 8694.6  | 5924.5 | 3704.3 | 2881.9 | 2567.4 |
| 40°   | 18838.4 | 18843.0 | 18717.1 | 18537.8 | 18193.0 | 12930.1 | 9230.5  | 5829.0 | 3368.8 | 2625.6 | 2402.0 |
| 42.5° | 20229.2 | 20301.4 | 20240.8 | 20112.7 | 19781.9 | 14067.0 | 9871.2  | 5712.6 | 3042.7 | 2376.3 | 2238.9 |
| 45°   | 21822.7 | 21911.3 | 22004.5 | 21815.8 | 21494.2 | 15567.4 | 10714.5 | 5561.1 | 2690.9 | 2169.0 | 2127.0 |
| 47.5° | 23660.9 | 23800.7 | 23884.6 | 23886.9 | 23565.4 | 17426.5 | 12084.4 | 5470.2 | 2378.7 | 2029.2 | 2073.5 |
| 50°   | 27539.9 | 27584.2 | 27782.2 | 28127.1 | 27880.1 | 21729.5 | 14477.0 | 5414.4 | 2166.7 | 1943.0 | 2033.8 |
| 52.5° | 33129.0 | 33615.9 | 33958.4 | 33935.1 | 33599.6 | 24462.3 | 15795.7 | 5125.4 | 2040.9 | 1910.4 | 2015.2 |
| 55°   | 35405.1 | 36013.2 | 36646.9 | 36814.7 | 36553.7 | 26794.5 | 17042.1 | 4836.5 | 1980.3 | 1933.7 | 2022.2 |
| 57.5° | 38438.5 | 39463.6 | 40332.6 | 40698.3 | 40320.9 | 29778.8 | 18682.3 | 4685.1 | 1961.6 | 1996.6 | 2066.5 |
| 60°   | 41982.0 | 43249.4 | 44391.0 | 45048.0 | 45048.0 | 33208.2 | 20382.9 | 4622.2 | 1936.0 | 2089.8 | 2141.0 |
| 62.5° | 44258.2 | 46119.6 | 47843.7 | 48805.8 | 48777.9 | 35596.2 | 21137.7 | 4407.9 | 1877.7 | 2155.1 | 2243.5 |
| 65°   | 44267.5 | 46480.7 | 48677.7 | 49758.7 | 49814.6 | 35302.6 | 19891.4 | 3893.0 | 1770.6 | 2164.4 | 2346.0 |
| 67.5° | 40577.2 | 42937.2 | 45497.6 | 46706.7 | 46986.3 | 32497.6 | 17219.1 | 3201.1 | 1595.9 | 2071.2 | 2383.4 |
| 70°   | 34270.6 | 36574.7 | 39188.6 | 40376.8 | 40873.0 | 27703.0 | 13869.0 | 2467.2 | 1372.2 | 1866.2 | 2306.4 |
| 72.5° | 26999.5 | 29259.3 | 31078.8 | 31947.8 | 32334.6 | 21175.1 | 10099.5 | 1863.8 | 1125.2 | 1572.6 | 2099.1 |
| 75°   | 19115.6 | 20811.6 | 21778.4 | 21971.9 | 22032.4 | 12764.7 | 6136.6  | 1386.2 | 927.2  | 1223.1 | 1773.0 |
| 77.5° | 10789.1 | 11516.0 | 11436.7 | 11522.9 | 10805.3 | 4927.5  | 2672.3  | 992.5  | 764.1  | 929.6  | 1374.5 |
| 80°   | 4212.2  | 4342.6  | 4079.4  | 3997.8  | 3667.0  | 1833.5  | 1178.8  | 691.9  | 610.4  | 703.6  | 962.2  |
| 82.5° | 1856.8  | 1917.4  | 1861.5  | 1875.5  | 1793.9  | 945.9   | 705.9   | 500.9  | 466.0  | 514.9  | 638.3  |
| 85°   | 1022.7  | 1041.4  | 1036.8  | 1067.0  | 1022.7  | 377.5   | 335.5   | 307.5  | 326.1  | 349.4  | 410.0  |
| 87.5° | 498.6   | 503.2   | 486.9   | 512.5   | 496.2   | 191.1   | 165.4   | 174.7  | 191.1  | 195.7  | 195.7  |
| 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):**

|       | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|
| 0°    | 4000.1 | 4000.1 | 4000.1 | 4000.1 | 4000.1 | 4000.1 |
| 2.5°  | 3778.9 | 3760.2 | 3762.5 | 3757.9 | 3748.6 | 3748.6 |
| 5°    | 3746.3 | 3727.6 | 3727.6 | 3722.9 | 3711.3 | 3713.6 |
| 7.5°  | 3778.9 | 3748.6 | 3736.9 | 3720.6 | 3704.3 | 3704.3 |
| 10°   | 3816.1 | 3762.5 | 3729.9 | 3702.0 | 3681.0 | 3681.0 |
| 12.5° | 3844.0 | 3760.2 | 3706.7 | 3669.3 | 3648.4 | 3648.4 |
| 15°   | 3853.4 | 3743.9 | 3669.3 | 3625.1 | 3606.4 | 3604.2 |
| 17.5° | 3823.1 | 3681.0 | 3590.1 | 3538.9 | 3515.6 | 3508.6 |
| 20°   | 3729.9 | 3566.8 | 3457.4 | 3399.1 | 3366.5 | 3354.9 |
| 22.5° | 3590.1 | 3403.8 | 3275.6 | 3215.0 | 3173.1 | 3166.1 |
| 25°   | 3394.5 | 3194.1 | 3068.2 | 3010.0 | 2986.7 | 2979.8 |
| 27.5° | 3166.1 | 2979.8 | 2872.5 | 2835.3 | 2814.3 | 2812.0 |
| 30°   | 2949.5 | 2791.0 | 2711.8 | 2683.9 | 2658.2 | 2653.5 |
| 32.5° | 2746.7 | 2646.6 | 2616.3 | 2576.7 | 2516.2 | 2509.1 |
| 35°   | 2602.3 | 2593.0 | 2572.0 | 2483.5 | 2408.9 | 2388.0 |
| 37.5° | 2513.8 | 2600.0 | 2492.8 | 2318.1 | 2264.5 | 2259.9 |
| 40°   | 2462.5 | 2527.8 | 2343.7 | 2283.1 | 2287.8 | 2283.1 |
| 42.5° | 2346.0 | 2413.7 | 2348.4 | 2320.5 | 2339.1 | 2343.7 |
| 45°   | 2229.5 | 2304.1 | 2383.4 | 2364.7 | 2408.9 | 2408.9 |
| 47.5° | 2164.4 | 2276.2 | 2381.0 | 2381.0 | 2446.3 | 2469.5 |
| 50°   | 2089.8 | 2252.8 | 2343.7 | 2376.3 | 2427.6 | 2408.9 |
| 52.5° | 2085.1 | 2213.3 | 2290.2 | 2348.4 | 2371.7 | 2350.7 |
| 55°   | 2092.1 | 2180.6 | 2236.6 | 2301.7 | 2329.8 | 2332.1 |
| 57.5° | 2101.4 | 2162.0 | 2199.2 | 2229.5 | 2313.4 | 2313.4 |
| 60°   | 2124.8 | 2145.7 | 2166.7 | 2183.0 | 2292.4 | 2294.8 |
| 62.5° | 2162.0 | 2129.4 | 2124.8 | 2141.0 | 2280.8 | 2271.5 |
| 65°   | 2220.2 | 2106.1 | 2071.2 | 2087.4 | 2269.2 | 2241.2 |
| 67.5° | 2299.5 | 2071.2 | 2003.6 | 2015.2 | 2259.9 | 2199.2 |
| 70°   | 2371.7 | 2015.2 | 1919.7 | 1908.1 | 2171.3 | 2064.1 |
| 72.5° | 2378.7 | 1949.9 | 1803.3 | 1768.3 | 1887.1 | 1784.5 |
| 75°   | 2262.2 | 1905.8 | 1675.1 | 1572.6 | 1558.6 | 1544.7 |
| 77.5° | 2038.5 | 1880.1 | 1525.9 | 1365.2 | 1337.3 | 1346.6 |
| 80°   | 1705.4 | 1784.5 | 1346.6 | 1155.5 | 1307.0 | 1290.7 |
| 82.5° | 1274.4 | 1574.9 | 1143.9 | 1022.7 | 1020.4 | 901.6  |
| 85°   | 708.3  | 1227.7 | 931.9  | 766.5  | 533.5  | 517.2  |
| 87.5° | 198.0  | 682.6  | 652.3  | 433.3  | 295.8  | 307.5  |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)