

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: P382647

Luminaire Tested: **GLEON-SA0B-735-U-T3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382647  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA0B-735-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 52703.2 lumens  
Efficiency: N/A  
Efficacy: 125.8 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G5

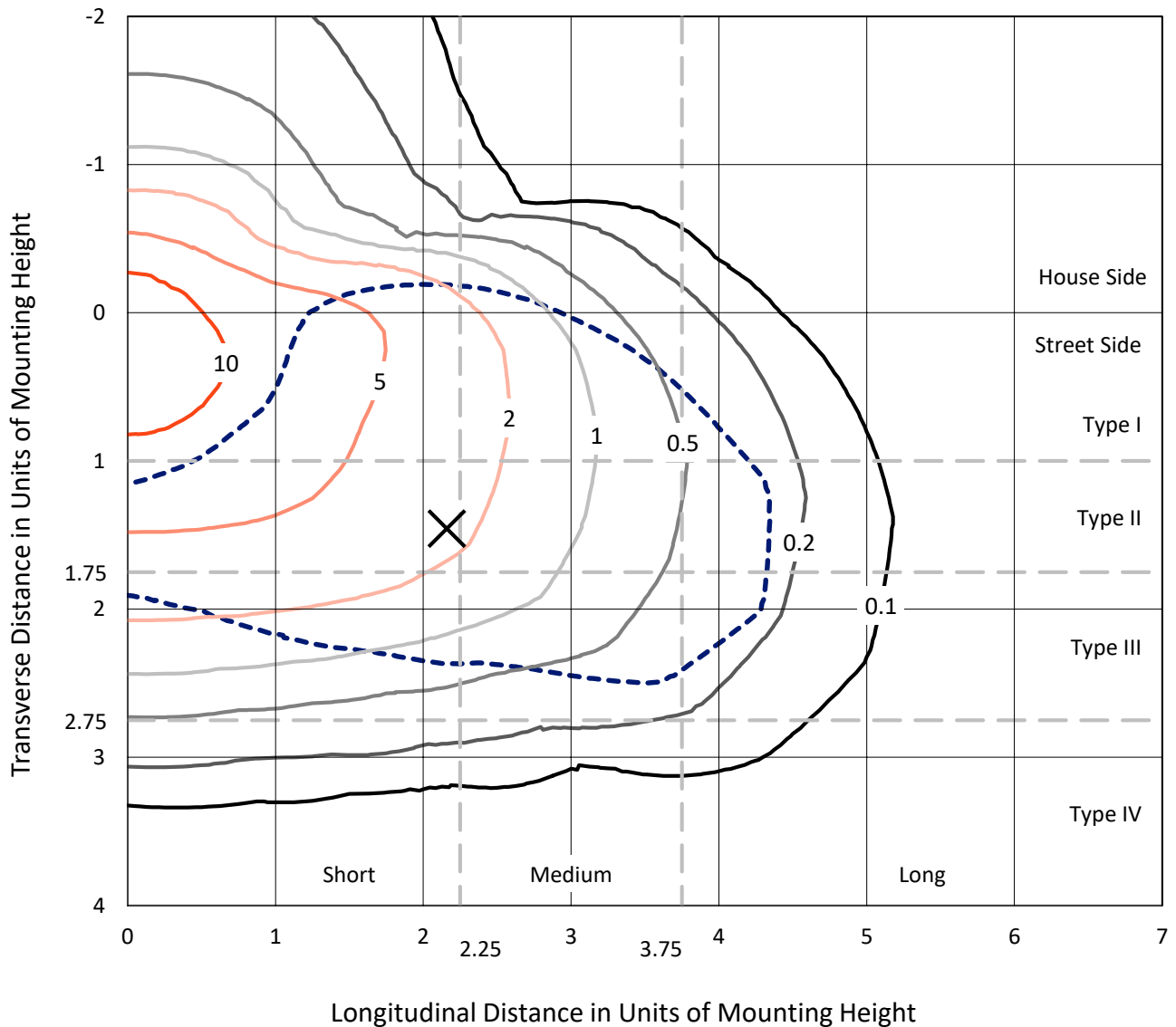
Input Watts (W): 419  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

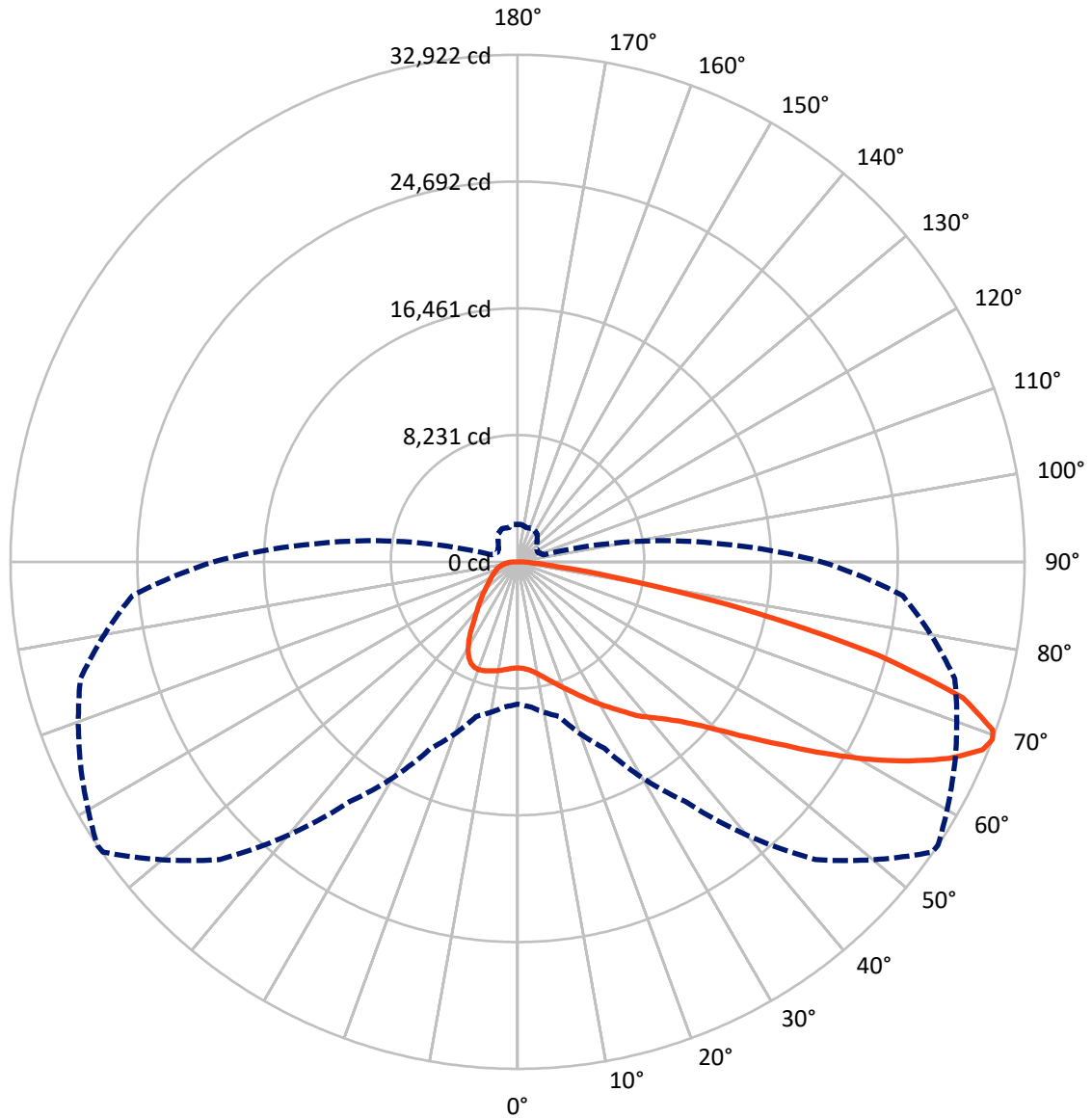
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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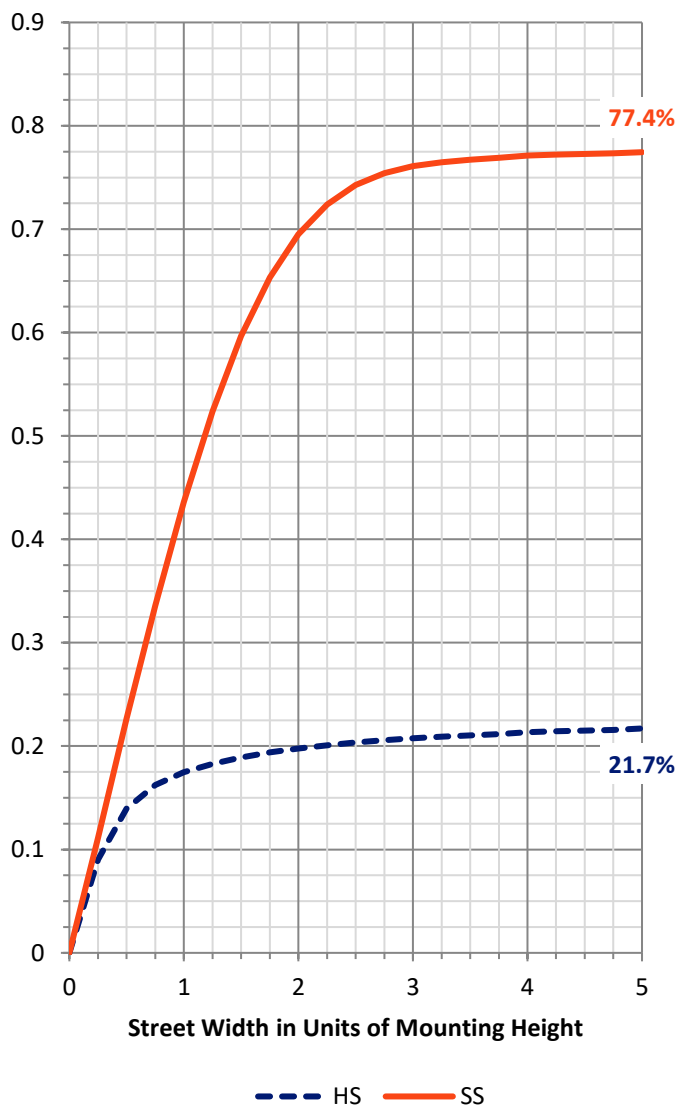
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 11736.9  | 0.0    | 11736.9 |
|                    | % Fixture | 22.3     | 0.0    | 22.3    |
| <b>Street Side</b> | Lumens    | 40966.3  | 0.0    | 40966.3 |
|                    | % Fixture | 77.7     | 0.0    | 77.7    |
| <b>Total</b>       | Lumens    | 52703.2  | 0.0    | 52703.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 676.7   | 1.3       |
| 10°-20°   | 2176.1  | 4.1       |
| 20°-30°   | 3798.6  | 7.2       |
| 30°-40°   | 5456.5  | 10.4      |
| 40°-50°   | 7551.5  | 14.3      |
| 50°-60°   | 11064.1 | 21.0      |
| 60°-70°   | 13489.2 | 25.6      |
| 70°-80°   | 7457.7  | 14.2      |
| 80°-90°   | 1032.9  | 2.0       |
| 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°    | 52703.2 | 100.0     |
| 0°-180°   | 52703.2 | 100.0     |

**Coefficient of Utilization**

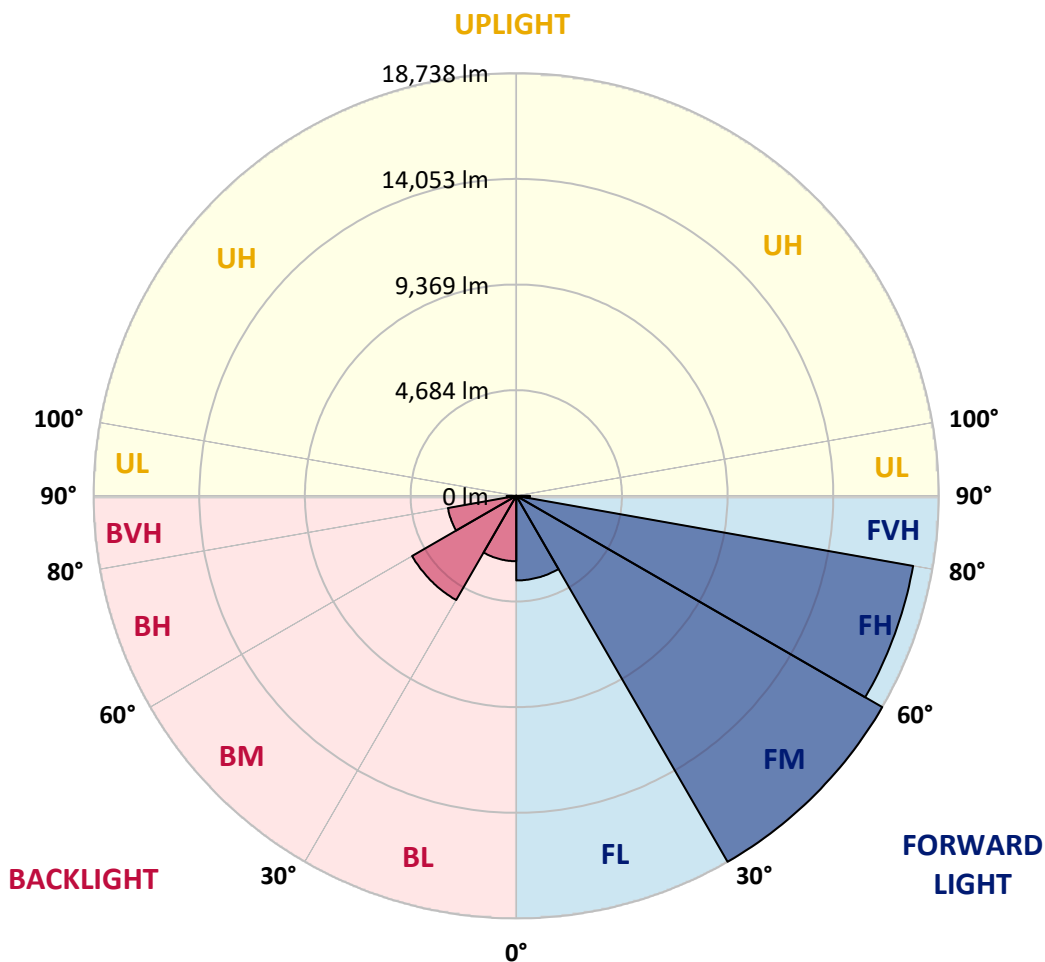


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 3750.9  | 7.1       |                         |      |         |
| FM (30°-60°)   | 18738.0 | 35.6      |                         |      |         |
| FH (60°-80°)   | 17869.0 | 33.9      |                         |      | G5      |
| FVH (80°-90°)  | 608.4   | 1.2       |                         |      | G4/750  |
| BL (0°-30°)    | 2900.5  | 5.5       | B4/5000                 |      |         |
| BM (30°-60°)   | 5334.2  | 10.1      | B4/8500                 |      |         |
| BH (60°-80°)   | 3077.8  | 5.8       | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 424.5   | 0.8       |                         |      | G3/500  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 56°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6890.2  | 6890.2  | 6890.2  | 6890.2  | 6890.2  | 6890.2  | 6890.2  | 6890.2  | 6890.2  | 6890.2  | 6890.2  |
| 2.5°  | 6933.7  | 6941.0  | 6935.6  | 6950.1  | 6933.7  | 6944.6  | 6935.6  | 6935.6  | 6930.1  | 6913.8  | 6895.6  |
| 5°    | 7042.7  | 7057.2  | 7048.1  | 7062.6  | 7042.7  | 7046.3  | 7029.9  | 7029.9  | 7013.6  | 6979.2  | 6942.8  |
| 7.5°  | 7213.3  | 7229.6  | 7222.4  | 7236.9  | 7209.7  | 7209.7  | 7187.9  | 7186.1  | 7153.4  | 7097.1  | 7055.4  |
| 10°   | 7416.7  | 7438.5  | 7431.2  | 7453.0  | 7431.2  | 7438.5  | 7416.7  | 7416.7  | 7373.1  | 7293.2  | 7240.5  |
| 12.5° | 7712.7  | 7739.9  | 7719.9  | 7718.1  | 7709.0  | 7723.6  | 7705.4  | 7701.8  | 7661.8  | 7552.8  | 7480.2  |
| 15°   | 8108.4  | 8137.4  | 8095.7  | 8092.1  | 8041.2  | 8035.8  | 8035.8  | 8030.3  | 8004.9  | 7874.2  | 7754.4  |
| 17.5° | 8564.1  | 8573.2  | 8536.9  | 8478.8  | 8413.5  | 8371.6  | 8366.2  | 8380.8  | 8380.8  | 8228.3  | 8037.6  |
| 20°   | 9010.8  | 9027.1  | 8998.1  | 8932.7  | 8849.1  | 8787.5  | 8743.9  | 8772.9  | 8771.1  | 8589.5  | 8319.0  |
| 22.5° | 9497.3  | 9535.5  | 9491.9  | 9408.4  | 9310.4  | 9241.3  | 9165.1  | 9190.5  | 9192.3  | 8969.0  | 8595.0  |
| 25°   | 10127.3 | 10092.9 | 10065.7 | 9947.6  | 9807.8  | 9737.0  | 9666.2  | 9691.6  | 9684.4  | 9377.5  | 8880.1  |
| 27.5° | 10684.8 | 10692.0 | 10655.7 | 10530.4 | 10368.8 | 10212.6 | 10209.0 | 10225.4 | 10198.1 | 9802.4  | 9148.7  |
| 30°   | 11332.9 | 11336.6 | 11285.7 | 11173.2 | 10997.0 | 10795.5 | 10748.3 | 10775.5 | 10717.5 | 10205.4 | 9432.0  |
| 32.5° | 11977.5 | 11995.6 | 11939.3 | 11803.2 | 11661.5 | 11416.4 | 11322.0 | 11340.2 | 11194.9 | 10617.6 | 9724.3  |
| 35°   | 12542.1 | 12567.5 | 12549.3 | 12458.5 | 12304.3 | 12093.6 | 11981.1 | 11970.2 | 11790.4 | 11122.3 | 10111.0 |
| 37.5° | 13117.6 | 13141.2 | 13121.2 | 13045.0 | 12983.3 | 12760.0 | 12700.1 | 12700.1 | 12387.7 | 11637.9 | 10603.1 |
| 40°   | 13709.5 | 13745.8 | 13722.3 | 13616.9 | 13564.3 | 13462.5 | 13319.2 | 13284.6 | 12946.9 | 12257.0 | 11405.5 |
| 42.5° | 14259.7 | 14306.8 | 14401.3 | 14339.5 | 14232.4 | 14246.9 | 13958.2 | 13940.1 | 13693.2 | 13172.1 | 12413.2 |
| 45°   | 15040.3 | 15109.3 | 15269.1 | 15221.9 | 15200.1 | 15120.2 | 14777.0 | 14760.7 | 14666.3 | 14403.0 | 13664.1 |
| 47.5° | 15891.8 | 15986.3 | 16274.9 | 16284.0 | 16518.2 | 16367.5 | 15901.0 | 15844.6 | 15866.4 | 15877.3 | 15191.0 |
| 50°   | 16676.2 | 16779.7 | 17253.6 | 17476.9 | 18028.8 | 18061.5 | 17315.2 | 17264.5 | 17349.8 | 17600.3 | 16970.3 |
| 52.5° | 17302.6 | 17433.3 | 18025.2 | 18715.1 | 19661.0 | 19929.7 | 19056.4 | 19018.3 | 19081.8 | 19514.0 | 18982.0 |
| 55°   | 17761.9 | 17903.5 | 18548.0 | 19804.4 | 21315.0 | 21788.9 | 21060.8 | 21024.5 | 21064.4 | 21614.6 | 21169.8 |
| 57.5° | 17869.0 | 17903.5 | 18838.5 | 20537.9 | 22711.2 | 23849.6 | 23513.7 | 23441.1 | 23245.0 | 23724.3 | 23584.5 |
| 60°   | 17366.1 | 17504.1 | 18598.9 | 20795.8 | 23791.4 | 25881.2 | 26077.3 | 25986.5 | 25436.4 | 25828.6 | 25716.0 |
| 62.5° | 16345.8 | 16592.6 | 17703.8 | 20403.6 | 24214.5 | 27540.6 | 28591.9 | 28482.9 | 27535.2 | 27789.4 | 27248.3 |
| 65°   | 14679.0 | 14784.3 | 15951.7 | 19051.0 | 23677.1 | 28602.8 | 30834.1 | 30779.6 | 29586.8 | 29189.2 | 27531.6 |
| 67.5° | 11697.8 | 11895.8 | 12887.0 | 16224.1 | 21478.4 | 28477.5 | 32568.0 | 32562.5 | 30926.7 | 29708.5 | 26527.6 |
| 69°   | 9241.3  | 9446.5  | 10390.6 | 13364.5 | 19005.5 | 27331.9 | 32858.5 | 32922.0 | 31304.4 | 29392.6 | 25093.2 |
| 70°   | 7367.6  | 7605.5  | 8253.7  | 11256.6 | 16810.5 | 25821.3 | 32617.0 | 32731.4 | 31231.7 | 28871.5 | 23769.6 |
| 72.5° | 3135.5  | 3328.0  | 3789.2  | 5802.6  | 10245.3 | 19281.5 | 29822.8 | 30255.0 | 29548.7 | 26424.1 | 19644.7 |
| 75°   | 1368.9  | 1428.9  | 1637.7  | 2365.7  | 4548.0  | 10494.1 | 23363.0 | 24161.8 | 25265.7 | 22335.3 | 14633.7 |
| 77.5° | 1002.2  | 1027.6  | 1142.0  | 1388.9  | 2040.7  | 3963.5  | 15024.0 | 15488.7 | 18221.3 | 16253.2 | 8976.3  |
| 80°   | 775.2   | 793.4   | 882.4   | 1020.3  | 1332.7  | 1603.2  | 6852.0  | 7251.4  | 10245.3 | 8348.1  | 3738.3  |
| 82.5° | 617.3   | 630.0   | 691.8   | 751.7   | 920.5   | 971.3   | 2274.9  | 2523.7  | 3781.9  | 2305.8  | 989.5   |
| 85°   | 573.7   | 588.3   | 610.1   | 548.3   | 590.0   | 570.1   | 984.1   | 1029.5  | 1142.0  | 906.0   | 414.0   |
| 87.5° | 259.6   | 306.9   | 604.6   | 426.6   | 314.1   | 250.6   | 403.1   | 421.2   | 473.9   | 475.6   | 183.3   |
| 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):**

|       | 90°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 6890.2  | 6890.2  | 6890.2 | 6890.2 | 6890.2 | 6890.2 | 6890.2 | 6890.2 | 6890.2 | 6890.2 | 6890.2 |
| 2.5°  | 6906.5  | 6901.1  | 6910.1 | 6888.3 | 6915.5 | 6913.8 | 6904.7 | 6908.4 | 6926.4 | 6924.7 | 6926.4 |
| 5°    | 6948.2  | 6944.6  | 6955.5 | 6939.2 | 6971.9 | 6982.8 | 6984.6 | 7000.9 | 7020.9 | 7026.3 | 7026.3 |
| 7.5°  | 7053.6  | 7053.6  | 7059.0 | 7037.2 | 7059.0 | 7057.2 | 7048.1 | 7064.5 | 7084.4 | 7086.3 | 7084.4 |
| 10°   | 7235.1  | 7236.9  | 7227.9 | 7171.6 | 7153.4 | 7104.4 | 7059.0 | 7060.9 | 7086.3 | 7106.2 | 7111.6 |
| 12.5° | 7463.8  | 7456.6  | 7416.7 | 7313.2 | 7236.9 | 7137.1 | 7089.9 | 7088.1 | 7113.5 | 7129.8 | 7135.3 |
| 15°   | 7725.3  | 7705.4  | 7601.9 | 7433.0 | 7298.7 | 7200.6 | 7124.4 | 7106.2 | 7091.7 | 7073.5 | 7075.4 |
| 17.5° | 7972.3  | 7926.8  | 7754.4 | 7520.2 | 7378.5 | 7247.8 | 7100.7 | 6982.8 | 6901.1 | 6853.9 | 6839.3 |
| 20°   | 8222.8  | 8133.8  | 7885.1 | 7601.9 | 7422.1 | 7184.3 | 6901.1 | 6661.4 | 6512.5 | 6443.5 | 6430.8 |
| 22.5° | 8451.6  | 8308.1  | 8006.7 | 7687.2 | 7387.6 | 6970.0 | 6525.2 | 6176.6 | 5969.6 | 5877.0 | 5884.3 |
| 25°   | 8674.9  | 8475.1  | 8133.8 | 7747.1 | 7213.3 | 6592.4 | 6002.3 | 5573.8 | 5334.2 | 5230.7 | 5227.1 |
| 27.5° | 8870.9  | 8644.0  | 8271.9 | 7698.1 | 6888.3 | 6055.0 | 5383.2 | 4965.6 | 4765.9 | 4676.9 | 4662.4 |
| 30°   | 9096.1  | 8856.4  | 8455.2 | 7511.1 | 6412.7 | 5434.1 | 4778.7 | 4484.5 | 4342.9 | 4253.9 | 4237.6 |
| 32.5° | 9370.3  | 9145.1  | 8605.9 | 7171.6 | 5804.5 | 4785.9 | 4306.5 | 4101.4 | 3972.5 | 3872.6 | 3854.5 |
| 35°   | 9769.7  | 9526.4  | 8644.0 | 6685.0 | 5136.3 | 4273.8 | 3959.8 | 3749.2 | 3574.9 | 3446.0 | 3433.3 |
| 37.5° | 10270.8 | 10003.9 | 8556.8 | 6055.0 | 4488.1 | 3941.7 | 3671.1 | 3411.5 | 3184.5 | 3002.9 | 2974.0 |
| 40°   | 10993.4 | 10590.3 | 8315.4 | 5328.7 | 4010.6 | 3685.7 | 3389.7 | 3093.8 | 2812.3 | 2599.9 | 2558.1 |
| 42.5° | 11861.2 | 11278.4 | 7945.0 | 4606.1 | 3660.2 | 3426.0 | 3110.1 | 2743.3 | 2474.7 | 2323.9 | 2302.1 |
| 45°   | 12965.1 | 11993.8 | 7431.2 | 3974.4 | 3315.3 | 3166.4 | 2808.7 | 2471.0 | 2304.0 | 2193.2 | 2175.1 |
| 47.5° | 14225.1 | 12796.3 | 6892.0 | 3460.5 | 3023.0 | 2923.1 | 2567.3 | 2349.4 | 2216.8 | 2129.7 | 2113.3 |
| 50°   | 15773.8 | 13702.2 | 6320.1 | 3039.3 | 2728.8 | 2630.8 | 2452.9 | 2282.2 | 2176.9 | 2109.7 | 2093.4 |
| 52.5° | 17520.5 | 14724.4 | 5908.0 | 2707.1 | 2485.6 | 2414.8 | 2393.0 | 2245.9 | 2160.5 | 2109.7 | 2093.4 |
| 55°   | 19401.3 | 15764.8 | 5463.1 | 2427.4 | 2274.9 | 2294.9 | 2353.0 | 2249.5 | 2191.4 | 2129.7 | 2106.0 |
| 57.5° | 21284.1 | 16839.6 | 4967.5 | 2191.4 | 2107.9 | 2205.9 | 2325.8 | 2256.8 | 2207.8 | 2147.9 | 2126.1 |
| 60°   | 22772.9 | 17520.5 | 4199.4 | 1993.5 | 1975.3 | 2107.9 | 2260.4 | 2202.3 | 2138.7 | 2140.6 | 2137.0 |
| 62.5° | 23468.3 | 17484.1 | 3351.6 | 1817.4 | 1842.8 | 1975.3 | 2155.1 | 2116.9 | 2064.3 | 2135.1 | 2140.6 |
| 65°   | 23078.0 | 16612.7 | 2609.0 | 1657.6 | 1701.2 | 1837.4 | 2046.1 | 2075.2 | 2093.4 | 2229.6 | 2247.7 |
| 67.5° | 21440.3 | 14916.9 | 2020.7 | 1517.9 | 1572.3 | 1742.9 | 2057.0 | 2260.4 | 2284.0 | 2427.4 | 2425.7 |
| 69°   | 19746.3 | 13326.4 | 1755.7 | 1445.2 | 1508.7 | 1766.6 | 2198.6 | 2378.4 | 2289.5 | 2442.0 | 2420.2 |
| 70°   | 18326.5 | 12068.2 | 1614.1 | 1396.2 | 1479.7 | 1808.3 | 2293.1 | 2376.6 | 2262.3 | 2393.0 | 2356.6 |
| 72.5° | 14114.3 | 8682.1  | 1368.9 | 1305.4 | 1381.7 | 1730.3 | 2320.3 | 2323.9 | 2198.6 | 2224.1 | 2162.4 |
| 75°   | 9680.7  | 5486.7  | 1194.6 | 1181.9 | 1232.8 | 1559.6 | 2233.2 | 2220.4 | 2033.5 | 1997.1 | 1946.3 |
| 77.5° | 5337.9  | 2786.9  | 1014.9 | 1063.9 | 1098.4 | 1381.7 | 2029.8 | 2011.7 | 1857.3 | 1781.1 | 1763.0 |
| 80°   | 2058.9  | 1220.0  | 856.9  | 945.9  | 967.7  | 1196.5 | 1779.3 | 1763.0 | 1634.0 | 1536.0 | 1508.7 |
| 82.5° | 777.1   | 639.0   | 708.1  | 818.8  | 811.6  | 987.7  | 1507.0 | 1497.8 | 1372.5 | 1229.2 | 1185.6 |
| 85°   | 359.5   | 383.1   | 561.0  | 675.4  | 622.7  | 731.6  | 1205.5 | 1221.9 | 1069.4 | 898.8  | 898.8  |
| 87.5° | 152.5   | 214.3   | 397.6  | 510.2  | 419.4  | 493.8  | 884.2  | 844.3  | 775.2  | 537.4  | 504.7  |
| 90°   | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)