

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: P194715

Luminaire Tested: **GLEON-AF-07-LED-E1-T2-7060**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194715  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)  
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-T2-7060  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 41317 lumens  
Efficiency: N/A  
Efficacy: 105.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B4 - U0 - G5

Input Watts (W): 391  
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



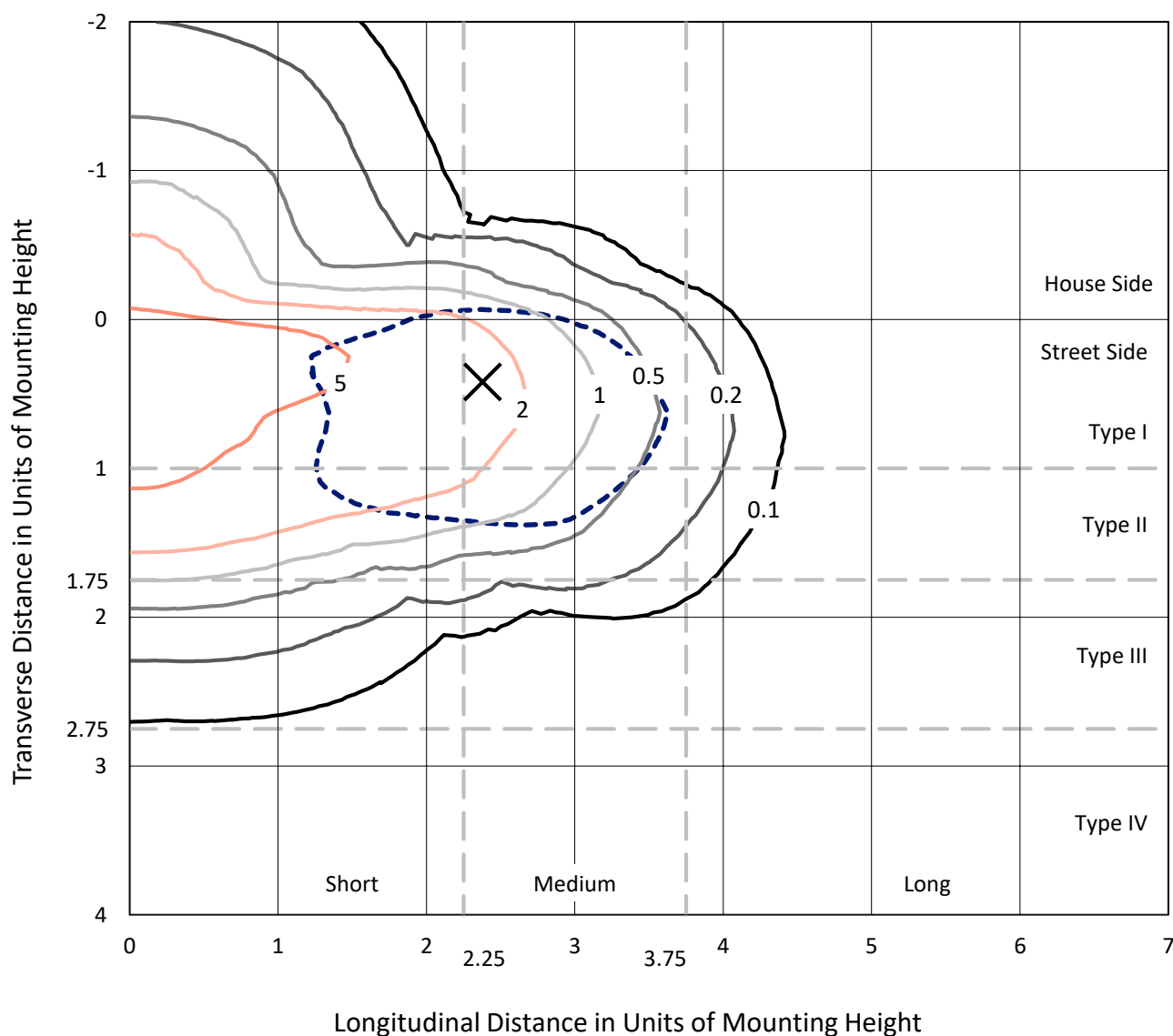
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

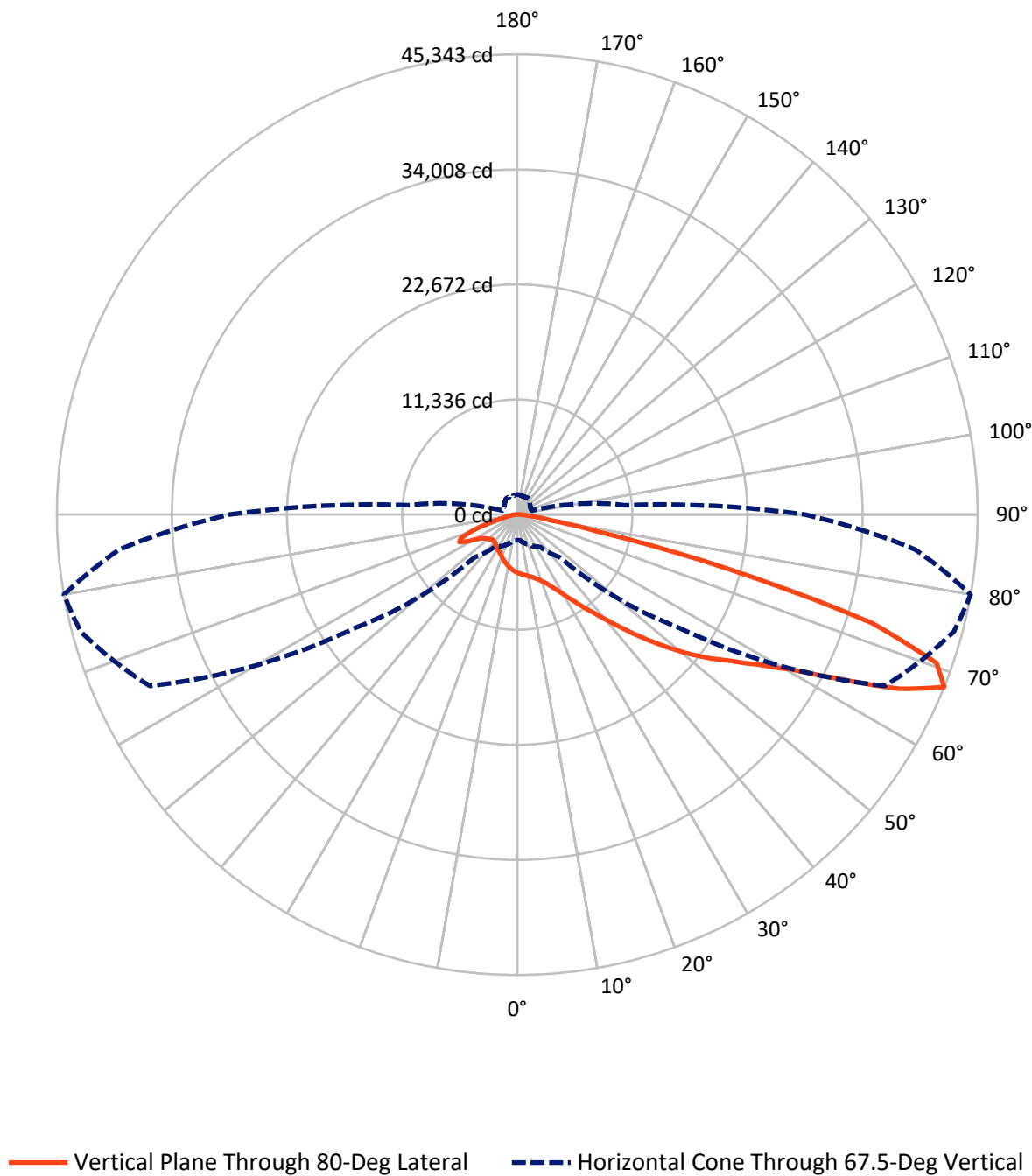


Based on 30 foot mounting height. Maximum calculated value = 7.7 fc  
Type II - Medium - Full Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7609.0   | 0.0    | 7609.0  |
|                    | % Fixture | 18.4     | 0.0    | 18.4    |
| <b>Street Side</b> | Lumens    | 33708.0  | 0.0    | 33708.0 |
|                    | % Fixture | 81.6     | 0.0    | 81.6    |
| <b>Total</b>       | Lumens    | 41317.0  | 0.0    | 41317.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 529.5   | 1.3       |
| 10°-20°   | 1525.3  | 3.7       |
| 20°-30°   | 2524.8  | 6.1       |
| 30°-40°   | 4129.9  | 10.0      |
| 40°-50°   | 6668.1  | 16.1      |
| 50°-60°   | 9626.8  | 23.3      |
| 60°-70°   | 10623.7 | 25.7      |
| 70°-80°   | 4896.9  | 11.9      |
| 80°-90°   | 792.0   | 1.9       |
| 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°    | 41317.0 | 100.0     |
| 0°-180°   | 41317.0 | 100.0     |

**Coefficient of Utilization**



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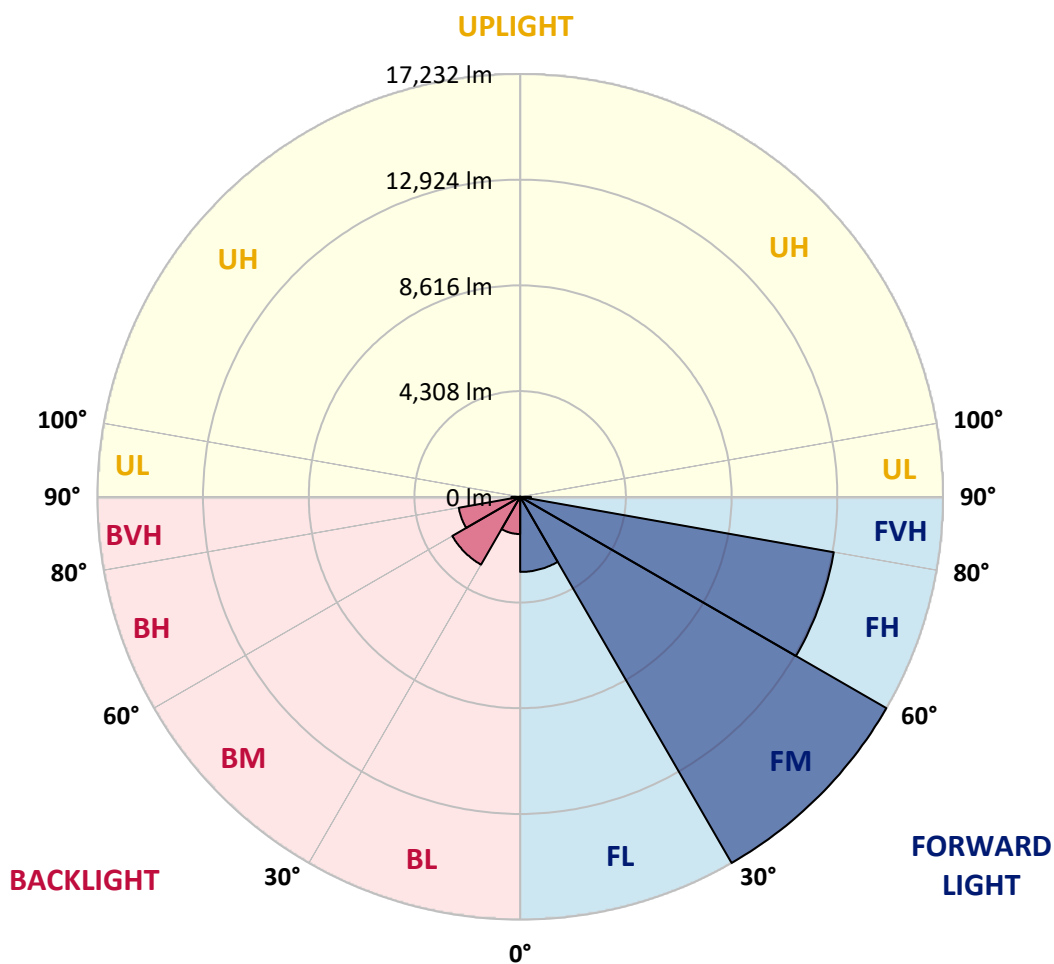
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3061.5  | 7.4       |                         |      |         |
| FM   | (30°-60°)   | 17232.3 | 41.7      |                         |      |         |
| FH   | (60°-80°)   | 12978.7 | 31.4      |                         |      | G5      |
| FVH  | (80°-90°)   | 435.5   | 1.1       |                         |      | G3/500  |
| BL   | (0°-30°)    | 1518.1  | 3.7       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 3192.5  | 7.7       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 2541.9  | 6.2       | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 356.6   | 0.9       |                         |      | 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 II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 80°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5740.1  | 5740.1  | 5740.1  | 5740.1  | 5740.1  | 5740.1  | 5740.1  | 5740.1  | 5740.1  | 5740.1  | 5740.1  |
| 2.5°  | 6279.2  | 6242.5  | 6248.6  | 6238.5  | 6208.0  | 6155.1  | 6098.1  | 5994.4  | 5886.6  | 5829.6  | 5784.9  |
| 5°    | 6803.9  | 6793.8  | 6779.5  | 6747.0  | 6669.7  | 6559.9  | 6423.6  | 6240.5  | 6043.2  | 5939.5  | 5839.8  |
| 7.5°  | 7196.5  | 7190.4  | 7172.1  | 7151.8  | 7076.5  | 6944.3  | 6738.9  | 6478.5  | 6191.7  | 6049.3  | 5894.7  |
| 10°   | 7229.1  | 7239.2  | 7253.5  | 7308.4  | 7318.6  | 7247.4  | 7037.9  | 6722.6  | 6346.3  | 6163.2  | 5965.9  |
| 12.5° | 6952.4  | 6974.8  | 7029.7  | 7170.1  | 7318.6  | 7406.0  | 7298.2  | 6978.9  | 6527.3  | 6305.6  | 6055.4  |
| 15°   | 6586.3  | 6598.5  | 6665.6  | 6858.9  | 7125.3  | 7395.9  | 7497.6  | 7261.6  | 6761.2  | 6488.7  | 6189.7  |
| 17.5° | 6429.7  | 6435.8  | 6482.6  | 6610.7  | 6858.9  | 7245.3  | 7609.4  | 7568.8  | 7048.0  | 6716.5  | 6354.4  |
| 20°   | 6350.4  | 6364.6  | 6431.7  | 6557.8  | 6714.5  | 7052.1  | 7625.7  | 7900.3  | 7389.8  | 7001.3  | 6561.9  |
| 22.5° | 6576.1  | 6570.0  | 6594.4  | 6657.5  | 6789.7  | 6993.1  | 7613.5  | 8242.0  | 7825.1  | 7367.4  | 6832.4  |
| 25°   | 7103.0  | 7125.3  | 7082.6  | 7011.4  | 7054.1  | 7196.5  | 7678.6  | 8612.2  | 8370.2  | 7837.3  | 7186.4  |
| 27.5° | 7853.5  | 7831.2  | 7768.1  | 7601.3  | 7513.8  | 7574.9  | 7894.2  | 9010.9  | 9047.5  | 8455.6  | 7654.2  |
| 30°   | 8602.1  | 8583.8  | 8522.7  | 8319.3  | 8140.3  | 8089.5  | 8313.2  | 9468.6  | 9855.0  | 9198.0  | 8227.8  |
| 32.5° | 9379.1  | 9358.7  | 9301.8  | 9098.4  | 8882.8  | 8764.8  | 8909.2  | 9997.4  | 10807.0 | 10084.9 | 8903.1  |
| 35°   | 10337.1 | 10298.5 | 10178.5 | 9895.7  | 9684.2  | 9592.7  | 9659.8  | 10662.6 | 11905.4 | 11134.5 | 9722.8  |
| 37.5° | 11238.2 | 11297.2 | 11175.2 | 10784.6 | 10510.0 | 10477.5 | 10552.7 | 11474.2 | 13089.2 | 12308.1 | 10664.6 |
| 40°   | 12143.4 | 12153.5 | 12043.7 | 11724.4 | 11441.6 | 11388.7 | 11577.9 | 12458.7 | 14486.6 | 13711.6 | 11809.8 |
| 42.5° | 13079.0 | 13099.4 | 12914.3 | 12619.3 | 12411.9 | 12422.0 | 12637.6 | 13612.0 | 16089.5 | 15365.3 | 13127.9 |
| 45°   | 14187.6 | 14218.1 | 14014.7 | 13628.2 | 13439.1 | 13819.4 | 13729.9 | 14905.6 | 17846.9 | 17244.8 | 14641.2 |
| 47.5° | 15347.0 | 15393.8 | 15239.2 | 14877.2 | 14641.2 | 15164.0 | 14822.2 | 16339.6 | 19738.6 | 19260.6 | 16303.0 |
| 50°   | 15979.6 | 16046.7 | 16197.3 | 16170.8 | 16120.0 | 16032.5 | 16040.6 | 17877.4 | 21689.2 | 21359.7 | 18011.7 |
| 52.5° | 15639.9 | 15637.9 | 16187.1 | 16854.3 | 17566.2 | 17619.1 | 17525.5 | 19498.6 | 23511.8 | 23412.1 | 19620.6 |
| 55°   | 14085.9 | 14191.7 | 15023.6 | 16315.2 | 18259.8 | 19474.1 | 19750.8 | 21355.7 | 25301.7 | 25417.7 | 21254.0 |
| 57.5° | 11498.6 | 11586.0 | 12708.8 | 14509.0 | 17324.1 | 20576.6 | 22915.8 | 24054.9 | 27303.3 | 27844.3 | 23428.4 |
| 60°   | 7798.6  | 7904.4  | 9094.3  | 11256.5 | 14806.0 | 19962.3 | 25928.2 | 28871.5 | 29699.4 | 30930.0 | 26479.5 |
| 62.5° | 4582.7  | 4678.4  | 5648.6  | 7100.9  | 10424.6 | 17108.5 | 27250.4 | 35724.3 | 33505.1 | 35586.0 | 31133.4 |
| 65°   | 3154.8  | 3219.9  | 3691.8  | 4420.0  | 5990.3  | 11523.0 | 25610.9 | 40455.5 | 39361.2 | 41354.6 | 36529.8 |
| 67.5° | 2538.5  | 2530.4  | 2904.6  | 3401.0  | 3856.6  | 5941.5  | 19366.3 | 39920.6 | 44511.5 | 45343.4 | 39330.7 |
| 70°   | 2091.0  | 2082.9  | 2337.1  | 2748.0  | 3081.6  | 3346.0  | 10548.7 | 33688.2 | 43461.9 | 43799.5 | 36751.5 |
| 72.5° | 1749.3  | 1757.4  | 1920.2  | 2225.3  | 2528.3  | 2520.2  | 4635.6  | 23698.9 | 34190.6 | 36525.7 | 29296.6 |
| 75°   | 1476.7  | 1480.8  | 1588.6  | 1804.2  | 2052.4  | 2030.0  | 2514.1  | 12839.0 | 19874.9 | 21500.1 | 16240.0 |
| 77.5° | 1257.1  | 1261.1  | 1330.3  | 1450.3  | 1627.3  | 1619.1  | 1834.7  | 5546.9  | 8290.9  | 8189.1  | 5555.0  |
| 80°   | 1120.8  | 1120.8  | 1153.3  | 1175.7  | 1273.3  | 1236.7  | 1360.8  | 2664.6  | 3504.7  | 3236.2  | 2217.1  |
| 82.5° | 878.7   | 882.8   | 1082.1  | 1074.0  | 1002.8  | 956.0   | 956.0   | 1570.3  | 1857.1  | 1716.8  | 1297.7  |
| 85°   | 494.3   | 492.2   | 697.7   | 842.1   | 882.8   | 673.3   | 667.2   | 878.7   | 1010.9  | 890.9   | 628.5   |
| 87.5° | 211.5   | 215.6   | 323.4   | 374.3   | 500.4   | 419.0   | 412.9   | 453.6   | 514.6   | 445.5   | 290.9   |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 5740.1  | 5740.1  | 5740.1 | 5740.1 | 5740.1 | 5740.1 | 5740.1 | 5740.1 | 5740.1 | 5740.1 | 5740.1 |
| 2.5°  | 5742.2  | 5689.3  | 5573.3 | 5428.9 | 5298.7 | 5213.3 | 5136.0 | 5024.1 | 5030.2 | 4952.9 | 4896.0 |
| 5°    | 5738.1  | 5628.3  | 5359.8 | 5040.4 | 4733.3 | 4511.6 | 4344.8 | 4194.2 | 4157.6 | 4086.4 | 4043.7 |
| 7.5°  | 5742.2  | 5563.2  | 5111.6 | 4601.1 | 4220.7 | 3940.0 | 3797.6 | 3718.3 | 3700.0 | 3675.6 | 3677.6 |
| 10°   | 5756.4  | 5504.2  | 4839.0 | 4190.2 | 3791.5 | 3606.4 | 3571.8 | 3596.2 | 3624.7 | 3632.8 | 3634.9 |
| 12.5° | 5789.0  | 5451.3  | 4540.0 | 3824.0 | 3523.0 | 3466.0 | 3525.0 | 3608.4 | 3663.4 | 3689.8 | 3687.8 |
| 15°   | 5862.2  | 5410.6  | 4253.2 | 3537.2 | 3374.5 | 3405.0 | 3514.9 | 3632.8 | 3712.2 | 3748.8 | 3750.8 |
| 17.5° | 5941.5  | 5351.6  | 3958.3 | 3317.6 | 3264.7 | 3342.0 | 3478.3 | 3616.6 | 3714.2 | 3754.9 | 3763.0 |
| 20°   | 6045.2  | 5278.4  | 3649.1 | 3152.8 | 3160.9 | 3248.4 | 3376.5 | 3514.9 | 3622.7 | 3657.2 | 3673.5 |
| 22.5° | 6181.5  | 5199.1  | 3378.6 | 3018.6 | 3043.0 | 3110.1 | 3209.8 | 3329.8 | 3423.3 | 3439.6 | 3453.8 |
| 25°   | 6364.6  | 5113.6  | 3163.0 | 2896.5 | 2906.7 | 2945.3 | 3012.5 | 3083.6 | 3148.7 | 3130.4 | 3144.7 |
| 27.5° | 6610.7  | 5040.4  | 3002.3 | 2784.6 | 2766.3 | 2774.5 | 2809.0 | 2831.4 | 2866.0 | 2815.1 | 2821.2 |
| 30°   | 6899.6  | 4961.1  | 2878.2 | 2687.0 | 2636.1 | 2621.9 | 2630.0 | 2642.3 | 2668.7 | 2599.5 | 2589.4 |
| 32.5° | 7235.2  | 4865.5  | 2762.3 | 2601.6 | 2530.4 | 2501.9 | 2506.0 | 2538.5 | 2640.2 | 2597.5 | 2575.1 |
| 35°   | 7625.7  | 4757.7  | 2640.2 | 2508.0 | 2459.2 | 2418.5 | 2414.4 | 2516.1 | 2819.2 | 2792.8 | 2772.4 |
| 37.5° | 8083.4  | 4649.9  | 2518.2 | 2402.2 | 2406.3 | 2361.6 | 2347.3 | 2463.3 | 2853.8 | 2750.1 | 2735.8 |
| 40°   | 8665.1  | 4592.9  | 2414.4 | 2290.4 | 2341.2 | 2335.1 | 2306.6 | 2365.6 | 2626.0 | 2436.8 | 2412.4 |
| 42.5° | 9385.2  | 4601.1  | 2337.1 | 2170.3 | 2263.9 | 2329.0 | 2284.3 | 2286.3 | 2379.9 | 2237.5 | 2215.1 |
| 45°   | 10274.1 | 4696.7  | 2282.2 | 2074.7 | 2176.5 | 2322.9 | 2276.1 | 2243.6 | 2251.7 | 2176.5 | 2164.2 |
| 47.5° | 11311.4 | 4894.0  | 2243.6 | 1995.4 | 2093.1 | 2300.5 | 2274.1 | 2231.4 | 2213.1 | 2172.4 | 2162.2 |
| 50°   | 12464.8 | 5180.8  | 2215.1 | 1920.2 | 2017.8 | 2263.9 | 2276.1 | 2219.2 | 2198.8 | 2182.6 | 2176.5 |
| 52.5° | 13597.7 | 5508.2  | 2172.4 | 1855.1 | 1958.8 | 2219.2 | 2282.2 | 2207.0 | 2184.6 | 2172.4 | 2166.3 |
| 55°   | 14860.9 | 5917.1  | 2107.3 | 1800.1 | 1910.0 | 2162.2 | 2282.2 | 2188.7 | 2164.2 | 2166.3 | 2164.2 |
| 57.5° | 16567.5 | 6578.2  | 2030.0 | 1753.4 | 1851.0 | 2093.1 | 2243.6 | 2168.3 | 2137.8 | 2139.8 | 2141.9 |
| 60°   | 19234.1 | 7743.7  | 1936.4 | 1706.6 | 1777.8 | 2011.7 | 2190.7 | 2123.6 | 2093.1 | 2101.2 | 2103.2 |
| 62.5° | 23155.8 | 9454.3  | 1814.4 | 1637.4 | 1700.5 | 1924.2 | 2117.5 | 2066.6 | 2036.1 | 2056.4 | 2056.4 |
| 65°   | 27232.1 | 10963.6 | 1663.9 | 1550.0 | 1619.1 | 1828.6 | 2025.9 | 1995.4 | 1964.9 | 2011.7 | 2009.7 |
| 67.5° | 28328.4 | 10626.0 | 1513.3 | 1454.4 | 1537.8 | 1722.9 | 1916.1 | 1899.8 | 1883.5 | 1964.9 | 1960.8 |
| 70°   | 25165.5 | 8530.9  | 1375.0 | 1356.7 | 1448.3 | 1608.9 | 1798.1 | 1798.1 | 1787.9 | 1849.0 | 1834.7 |
| 72.5° | 19173.1 | 6049.3  | 1242.8 | 1253.0 | 1346.6 | 1484.9 | 1670.0 | 1684.2 | 1667.9 | 1698.4 | 1686.2 |
| 75°   | 10263.9 | 3462.0  | 1110.6 | 1139.1 | 1220.4 | 1358.8 | 1527.6 | 1541.8 | 1531.7 | 1529.6 | 1535.7 |
| 77.5° | 3411.1  | 1692.3  | 972.3  | 1017.0 | 1088.2 | 1228.6 | 1379.1 | 1401.5 | 1377.1 | 1373.0 | 1371.0 |
| 80°   | 1519.4  | 1063.8  | 819.7  | 878.7  | 941.8  | 1080.1 | 1222.5 | 1240.8 | 1214.3 | 1251.0 | 1204.2 |
| 82.5° | 976.4   | 699.7   | 657.0  | 722.1  | 783.1  | 931.6  | 1065.9 | 1069.9 | 1045.5 | 1214.3 | 1035.3 |
| 85°   | 473.9   | 433.3   | 494.3  | 553.3  | 606.2  | 732.3  | 882.8  | 884.8  | 823.8  | 750.6  | 724.1  |
| 87.5° | 236.0   | 252.2   | 329.5  | 382.4  | 408.8  | 502.4  | 642.8  | 630.6  | 604.1  | 549.2  | 506.5  |
| 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)