

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: P193105

Luminaire Tested: **GLEON-AF-07-LED-E1-T2-7030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193105  
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-T2-7030-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32286.1 lumens  
Efficiency: N/A  
Efficacy: 109.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B3 - U0 - G4

Input Watts (W): 295  
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



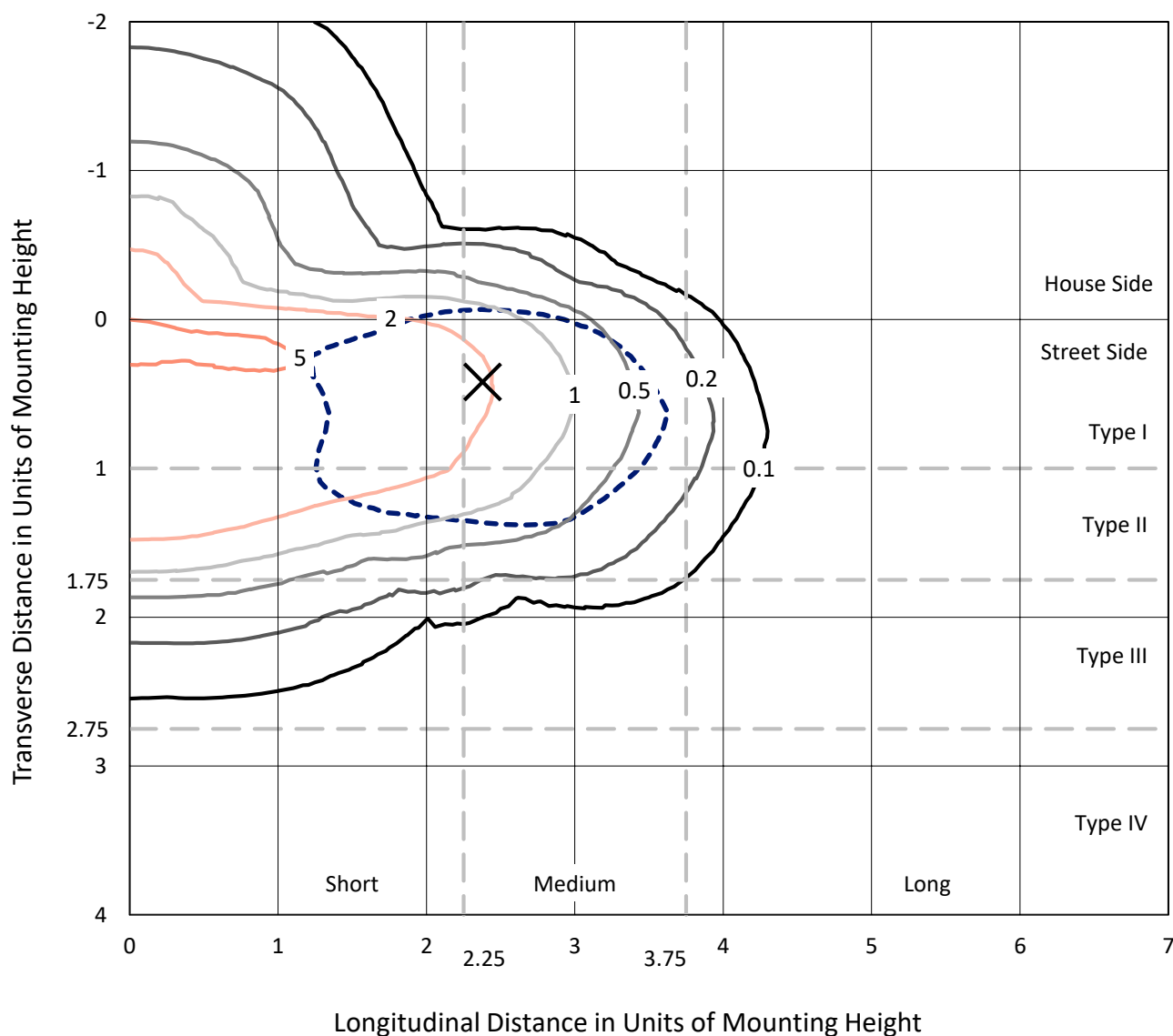
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

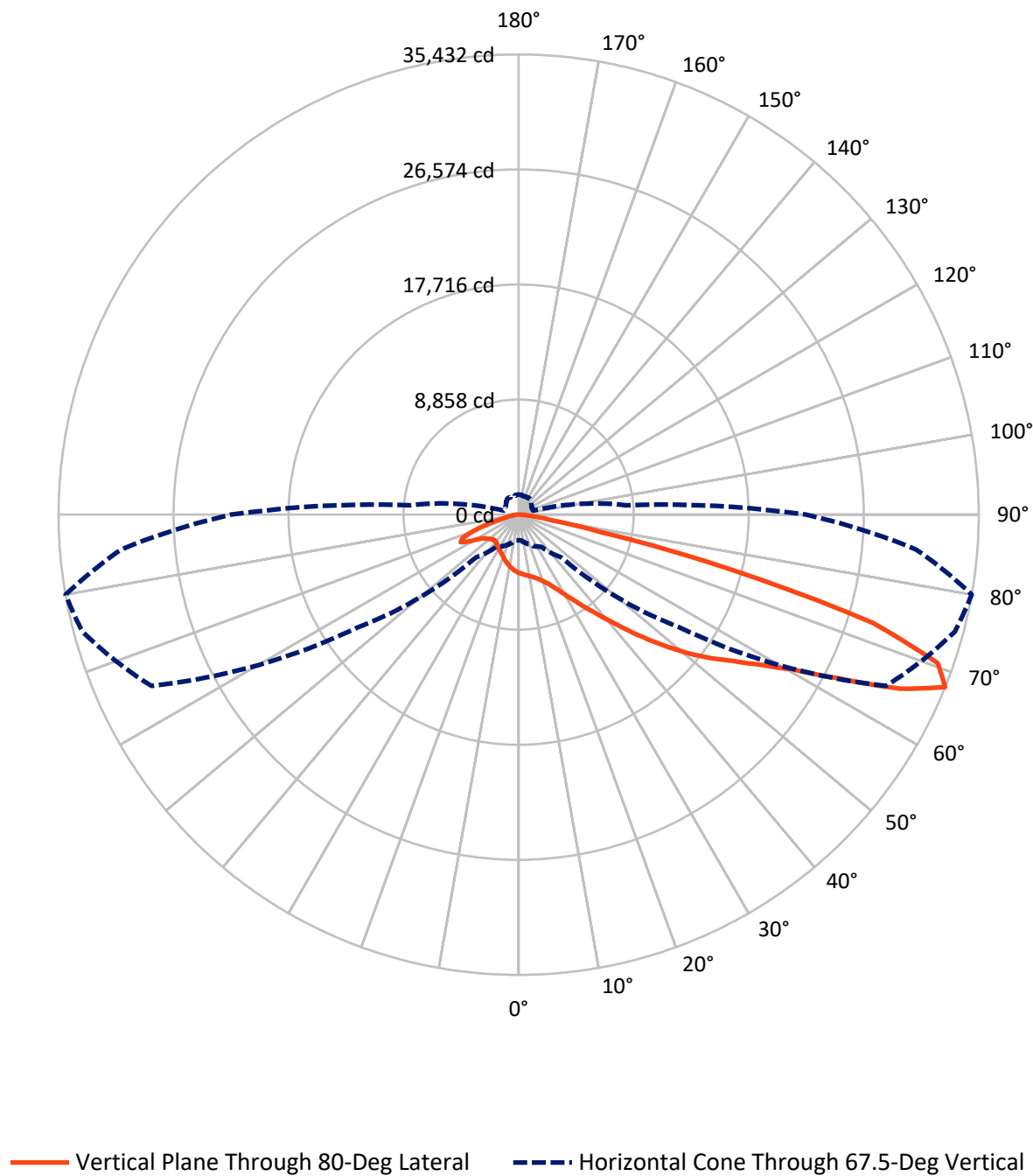


Based on 30 foot mounting height. Maximum calculated value = 6.1 fc  
 Type II - Medium - Full Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5945.9   | 0.0    | 5945.9  |
|                    | % Fixture | 18.4     | 0.0    | 18.4    |
| <b>Street Side</b> | Lumens    | 26340.3  | 0.0    | 26340.3 |
|                    | % Fixture | 81.6     | 0.0    | 81.6    |
| <b>Total</b>       | Lumens    | 32286.1  | 0.0    | 32286.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 413.8   | 1.3       |
| 10°-20°   | 1191.9  | 3.7       |
| 20°-30°   | 1972.9  | 6.1       |
| 30°-40°   | 3227.2  | 10.0      |
| 40°-50°   | 5210.6  | 16.1      |
| 50°-60°   | 7522.6  | 23.3      |
| 60°-70°   | 8301.6  | 25.7      |
| 70°-80°   | 3826.5  | 11.9      |
| 80°-90°   | 618.9   | 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°    | 32286.1 | 100.0     |
| 0°-180°   | 32286.1 | 100.0     |

**Coefficient of Utilization**



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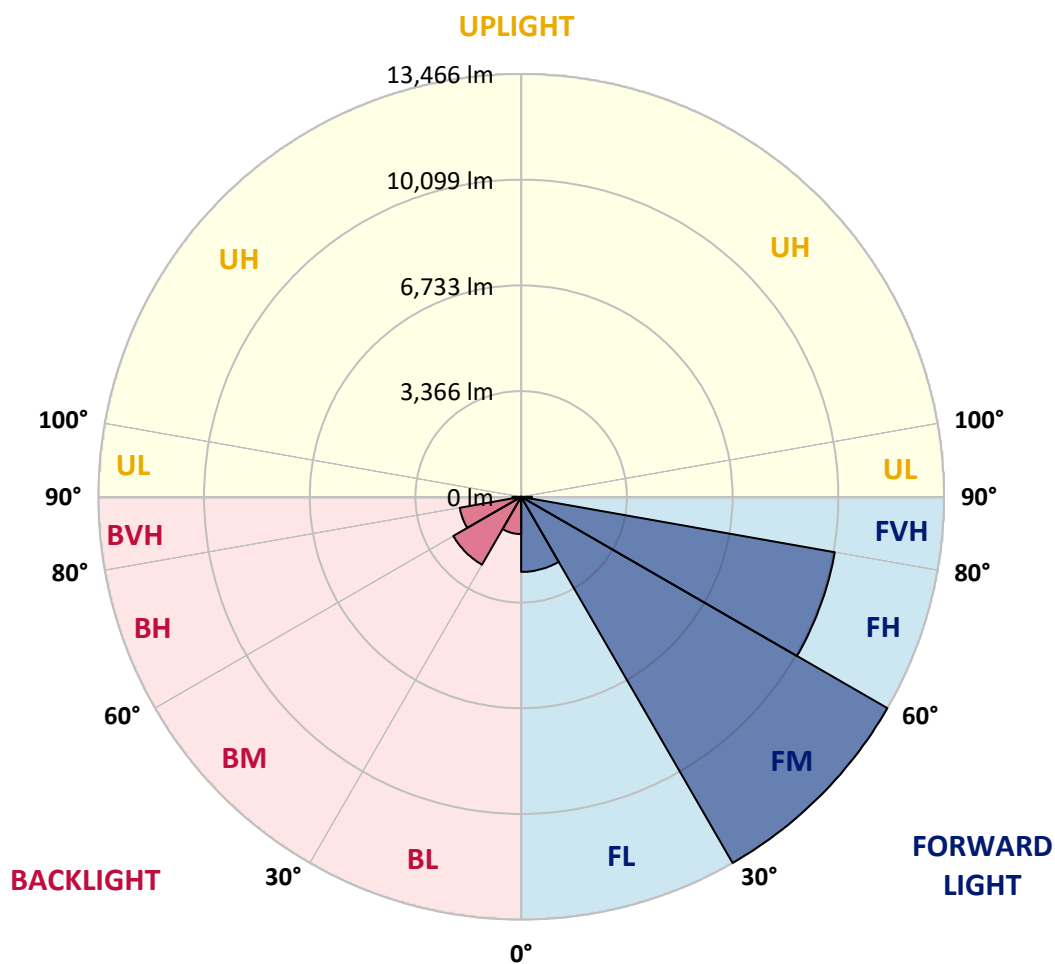
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2392.3  | 7.4       |                         |      |          |
| FM   | (30°-60°)   | 13465.7 | 41.7      |                         |      |          |
| FH   | (60°-80°)   | 10141.9 | 31.4      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 340.3   | 1.1       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1186.3  | 3.7       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 2494.7  | 7.7       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 1986.3  | 6.2       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 278.7   | 0.9       |                         |      | G3/500   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 80°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4485.5  | 4485.5  | 4485.5  | 4485.5  | 4485.5  | 4485.5  | 4485.5  | 4485.5  | 4485.5  | 4485.5  | 4485.5  |
| 2.5°  | 4906.8  | 4878.1  | 4882.8  | 4874.9  | 4851.1  | 4809.7  | 4765.3  | 4684.2  | 4600.0  | 4555.4  | 4520.5  |
| 5°    | 5316.8  | 5308.8  | 5297.7  | 5272.3  | 5211.8  | 5126.0  | 5019.6  | 4876.5  | 4722.3  | 4641.3  | 4563.3  |
| 7.5°  | 5623.6  | 5618.7  | 5604.5  | 5588.6  | 5529.7  | 5426.5  | 5265.9  | 5062.4  | 4838.3  | 4727.1  | 4606.3  |
| 10°   | 5648.9  | 5656.9  | 5668.1  | 5711.0  | 5718.9  | 5663.2  | 5499.6  | 5253.1  | 4959.2  | 4816.0  | 4661.9  |
| 12.5° | 5432.8  | 5450.3  | 5493.2  | 5603.0  | 5718.9  | 5787.3  | 5703.0  | 5453.4  | 5100.6  | 4927.4  | 4731.8  |
| 15°   | 5146.6  | 5156.3  | 5208.7  | 5359.7  | 5568.0  | 5779.3  | 5858.8  | 5674.4  | 5283.3  | 5070.4  | 4836.8  |
| 17.5° | 5024.3  | 5029.1  | 5065.6  | 5165.8  | 5359.7  | 5661.7  | 5946.2  | 5914.4  | 5507.5  | 5248.4  | 4965.5  |
| 20°   | 4962.3  | 4973.5  | 5025.9  | 5124.5  | 5246.8  | 5510.7  | 5958.9  | 6173.4  | 5774.6  | 5470.9  | 5127.6  |
| 22.5° | 5138.8  | 5134.0  | 5153.1  | 5202.4  | 5305.6  | 5464.6  | 5949.3  | 6440.5  | 6114.7  | 5757.1  | 5339.1  |
| 25°   | 5550.4  | 5568.0  | 5534.5  | 5479.0  | 5512.2  | 5623.6  | 6000.2  | 6729.9  | 6540.7  | 6124.2  | 5615.6  |
| 27.5° | 6137.0  | 6119.5  | 6070.2  | 5939.9  | 5871.5  | 5919.2  | 6168.8  | 7041.3  | 7069.9  | 6607.5  | 5981.2  |
| 30°   | 6721.8  | 6707.5  | 6659.9  | 6500.9  | 6361.1  | 6321.3  | 6496.1  | 7398.9  | 7700.9  | 7187.6  | 6429.4  |
| 32.5° | 7329.0  | 7313.2  | 7268.7  | 7109.7  | 6941.2  | 6849.0  | 6961.9  | 7812.2  | 8444.8  | 7880.6  | 6957.1  |
| 35°   | 8077.6  | 8047.5  | 7953.7  | 7732.8  | 7567.4  | 7495.9  | 7548.4  | 8332.0  | 9303.2  | 8700.8  | 7597.7  |
| 37.5° | 8781.8  | 8827.9  | 8732.5  | 8427.3  | 8212.8  | 8187.4  | 8246.2  | 8966.2  | 10228.2 | 9617.9  | 8333.5  |
| 40°   | 9489.1  | 9497.1  | 9411.3  | 9161.7  | 8940.8  | 8899.3  | 9047.2  | 9735.5  | 11320.3 | 10714.6 | 9228.5  |
| 42.5° | 10220.3 | 10236.2 | 10091.5 | 9861.0  | 9699.0  | 9706.9  | 9875.4  | 10636.7 | 12572.7 | 12006.8 | 10258.5 |
| 45°   | 11086.5 | 11110.3 | 10951.4 | 10649.4 | 10501.7 | 10798.8 | 10728.9 | 11647.6 | 13946.0 | 13475.5 | 11441.0 |
| 47.5° | 11992.6 | 12029.1 | 11908.2 | 11625.4 | 11441.0 | 11849.5 | 11582.5 | 12768.1 | 15424.2 | 15050.7 | 12739.6 |
| 50°   | 12486.9 | 12539.3 | 12656.9 | 12636.3 | 12596.5 | 12528.2 | 12534.6 | 13969.9 | 16948.6 | 16691.0 | 14074.8 |
| 52.5° | 12221.4 | 12219.9 | 12649.0 | 13170.3 | 13726.7 | 13768.0 | 13694.9 | 15236.6 | 18372.7 | 18294.8 | 15332.1 |
| 55°   | 11007.1 | 11089.7 | 11739.8 | 12749.1 | 14268.6 | 15217.5 | 15433.8 | 16687.8 | 19771.4 | 19862.0 | 16608.4 |
| 57.5° | 8985.3  | 9053.7  | 9931.0  | 11337.8 | 13537.6 | 16079.0 | 17906.9 | 18797.1 | 21335.4 | 21758.2 | 18307.5 |
| 60°   | 6094.1  | 6176.7  | 7106.6  | 8796.1  | 11569.8 | 15599.1 | 20260.9 | 22561.0 | 23207.9 | 24169.5 | 20691.7 |
| 62.5° | 3581.1  | 3655.9  | 4414.0  | 5548.8  | 8146.1  | 13369.1 | 21294.1 | 27915.8 | 26181.7 | 27807.8 | 24328.4 |
| 65°   | 2465.2  | 2516.1  | 2884.9  | 3453.9  | 4681.0  | 9004.4  | 20013.0 | 31613.0 | 30757.8 | 32315.5 | 28545.3 |
| 67.5° | 1983.7  | 1977.3  | 2269.8  | 2657.6  | 3013.6  | 4642.9  | 15133.3 | 31194.9 | 34782.3 | 35432.4 | 30734.0 |
| 70°   | 1634.0  | 1627.6  | 1826.3  | 2147.4  | 2408.1  | 2614.7  | 8242.9  | 26324.8 | 33962.1 | 34226.0 | 28718.5 |
| 72.5° | 1367.0  | 1373.3  | 1500.4  | 1738.9  | 1975.7  | 1969.4  | 3622.4  | 18518.9 | 26717.3 | 28542.2 | 22893.1 |
| 75°   | 1154.0  | 1157.2  | 1241.4  | 1409.9  | 1603.8  | 1586.3  | 1964.6  | 10032.7 | 15530.6 | 16800.7 | 12690.4 |
| 77.5° | 982.2   | 985.5   | 1039.5  | 1133.2  | 1271.6  | 1265.2  | 1433.7  | 4334.6  | 6478.6  | 6399.2  | 4340.9  |
| 80°   | 875.8   | 875.8   | 901.3   | 918.8   | 995.1   | 966.4   | 1063.3  | 2082.2  | 2738.7  | 2528.8  | 1732.6  |
| 82.5° | 686.7   | 689.9   | 845.5   | 839.2   | 783.6   | 747.0   | 747.0   | 1227.1  | 1451.2  | 1341.4  | 1014.0  |
| 85°   | 386.2   | 384.7   | 545.2   | 658.1   | 689.9   | 526.1   | 521.3   | 686.7   | 790.0   | 696.2   | 491.1   |
| 87.5° | 165.3   | 168.5   | 252.7   | 292.5   | 391.0   | 327.4   | 322.7   | 354.4   | 402.2   | 348.1   | 227.3   |
| 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°    | 4485.5  | 4485.5 | 4485.5 | 4485.5 | 4485.5 | 4485.5 | 4485.5 | 4485.5 | 4485.5 | 4485.5 | 4485.5 |
| 2.5°  | 4487.1  | 4445.8 | 4355.2 | 4242.3 | 4140.6 | 4073.8 | 4013.4 | 3926.0 | 3930.7 | 3870.4 | 3825.8 |
| 5°    | 4483.9  | 4398.0 | 4188.2 | 3938.7 | 3698.7 | 3525.5 | 3395.1 | 3277.4 | 3248.9 | 3193.2 | 3159.9 |
| 7.5°  | 4487.1  | 4347.2 | 3994.3 | 3595.4 | 3298.1 | 3078.8 | 2967.6 | 2905.5 | 2891.2 | 2872.2 | 2873.7 |
| 10°   | 4498.2  | 4301.1 | 3781.4 | 3274.3 | 2962.8 | 2818.2 | 2791.1 | 2810.1 | 2832.4 | 2838.8 | 2840.4 |
| 12.5° | 4523.7  | 4259.8 | 3547.6 | 2988.2 | 2753.0 | 2708.4 | 2754.5 | 2819.8 | 2862.6 | 2883.3 | 2881.7 |
| 15°   | 4580.8  | 4228.0 | 3323.5 | 2764.0 | 2637.0 | 2660.8 | 2746.6 | 2838.8 | 2900.9 | 2929.3 | 2931.0 |
| 17.5° | 4642.9  | 4181.9 | 3093.1 | 2592.4 | 2551.1 | 2611.6 | 2718.1 | 2826.1 | 2902.4 | 2934.1 | 2940.5 |
| 20°   | 4724.0  | 4124.6 | 2851.5 | 2463.7 | 2470.1 | 2538.4 | 2638.5 | 2746.6 | 2830.8 | 2857.9 | 2870.6 |
| 22.5° | 4830.4  | 4062.7 | 2640.1 | 2358.8 | 2377.8 | 2430.3 | 2508.1 | 2602.0 | 2675.1 | 2687.8 | 2698.9 |
| 25°   | 4973.5  | 3995.9 | 2471.7 | 2263.5 | 2271.4 | 2301.5 | 2354.0 | 2409.6 | 2460.5 | 2446.2 | 2457.3 |
| 27.5° | 5165.8  | 3938.7 | 2346.1 | 2176.0 | 2161.7 | 2168.0 | 2195.0 | 2212.5 | 2239.6 | 2199.8 | 2204.7 |
| 30°   | 5391.5  | 3876.7 | 2249.1 | 2099.6 | 2060.0 | 2048.8 | 2055.1 | 2064.7 | 2085.4 | 2031.3 | 2023.4 |
| 32.5° | 5653.7  | 3802.0 | 2158.5 | 2032.9 | 1977.3 | 1955.0 | 1958.3 | 1983.7 | 2063.2 | 2029.7 | 2012.2 |
| 35°   | 5958.9  | 3717.8 | 2063.2 | 1959.8 | 1921.7 | 1889.8 | 1886.7 | 1966.1 | 2203.0 | 2182.4 | 2166.4 |
| 37.5° | 6316.5  | 3633.5 | 1967.8 | 1877.2 | 1880.4 | 1845.4 | 1834.3 | 1924.8 | 2230.0 | 2148.9 | 2137.8 |
| 40°   | 6771.2  | 3589.0 | 1886.7 | 1789.7 | 1829.4 | 1824.7 | 1802.4 | 1848.5 | 2052.0 | 1904.2 | 1885.2 |
| 42.5° | 7333.8  | 3595.4 | 1826.3 | 1695.9 | 1769.1 | 1819.9 | 1785.0 | 1786.6 | 1859.7 | 1748.3 | 1730.8 |
| 45°   | 8028.4  | 3670.1 | 1783.3 | 1621.3 | 1700.7 | 1815.2 | 1778.6 | 1753.2 | 1759.5 | 1700.7 | 1691.3 |
| 47.5° | 8839.1  | 3824.3 | 1753.2 | 1559.2 | 1635.6 | 1797.7 | 1777.0 | 1743.7 | 1729.3 | 1697.6 | 1689.5 |
| 50°   | 9740.3  | 4048.4 | 1730.8 | 1500.4 | 1576.7 | 1769.1 | 1778.6 | 1734.2 | 1718.2 | 1705.5 | 1700.7 |
| 52.5° | 10625.6 | 4304.3 | 1697.6 | 1449.6 | 1530.6 | 1734.2 | 1783.3 | 1724.5 | 1707.0 | 1697.6 | 1692.8 |
| 55°   | 11612.6 | 4623.8 | 1646.6 | 1406.7 | 1492.5 | 1689.5 | 1783.3 | 1710.2 | 1691.3 | 1692.8 | 1691.3 |
| 57.5° | 12946.2 | 5140.3 | 1586.3 | 1370.1 | 1446.4 | 1635.6 | 1753.2 | 1694.4 | 1670.6 | 1672.1 | 1673.8 |
| 60°   | 15030.0 | 6051.1 | 1513.1 | 1333.6 | 1389.2 | 1572.0 | 1711.9 | 1659.4 | 1635.6 | 1641.9 | 1643.5 |
| 62.5° | 18094.5 | 7387.9 | 1417.8 | 1279.5 | 1328.8 | 1503.6 | 1654.6 | 1614.9 | 1591.1 | 1606.9 | 1606.9 |
| 65°   | 21279.8 | 8567.2 | 1300.1 | 1211.1 | 1265.2 | 1428.9 | 1583.0 | 1559.2 | 1535.4 | 1572.0 | 1570.4 |
| 67.5° | 22136.5 | 8303.3 | 1182.5 | 1136.6 | 1201.7 | 1346.3 | 1497.3 | 1484.7 | 1471.8 | 1535.4 | 1532.3 |
| 70°   | 19664.9 | 6666.2 | 1074.4 | 1060.2 | 1131.7 | 1257.2 | 1405.1 | 1405.1 | 1397.1 | 1444.9 | 1433.7 |
| 72.5° | 14982.2 | 4727.1 | 971.2  | 979.1  | 1052.2 | 1160.4 | 1305.0 | 1316.0 | 1303.4 | 1327.2 | 1317.6 |
| 75°   | 8020.5  | 2705.3 | 867.8  | 890.1  | 953.8  | 1061.8 | 1193.6 | 1204.8 | 1196.8 | 1195.3 | 1200.0 |
| 77.5° | 2665.5  | 1322.5 | 759.8  | 794.8  | 850.4  | 960.1  | 1077.7 | 1095.1 | 1076.1 | 1072.9 | 1071.3 |
| 80°   | 1187.3  | 831.3  | 640.6  | 686.7  | 736.0  | 844.0  | 955.3  | 969.5  | 948.9  | 977.6  | 940.9  |
| 82.5° | 762.9   | 546.8  | 513.4  | 564.3  | 612.0  | 728.0  | 832.9  | 836.1  | 817.0  | 948.9  | 809.1  |
| 85°   | 370.4   | 338.6  | 386.2  | 432.3  | 473.6  | 572.2  | 689.9  | 691.4  | 643.7  | 586.5  | 565.9  |
| 87.5° | 184.4   | 197.1  | 257.6  | 298.9  | 319.5  | 392.6  | 502.3  | 492.8  | 472.1  | 429.2  | 395.7  |
| 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)