

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: P193021

Luminaire Tested: **GLEON-AF-03-LED-E1-SLL-7030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193021  
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-03-LED-E1-SLL-7030-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 800mA 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: 12479.6 lumens  
Efficiency: N/A  
Efficacy: 100.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G3

Input Watts (W): 124  
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

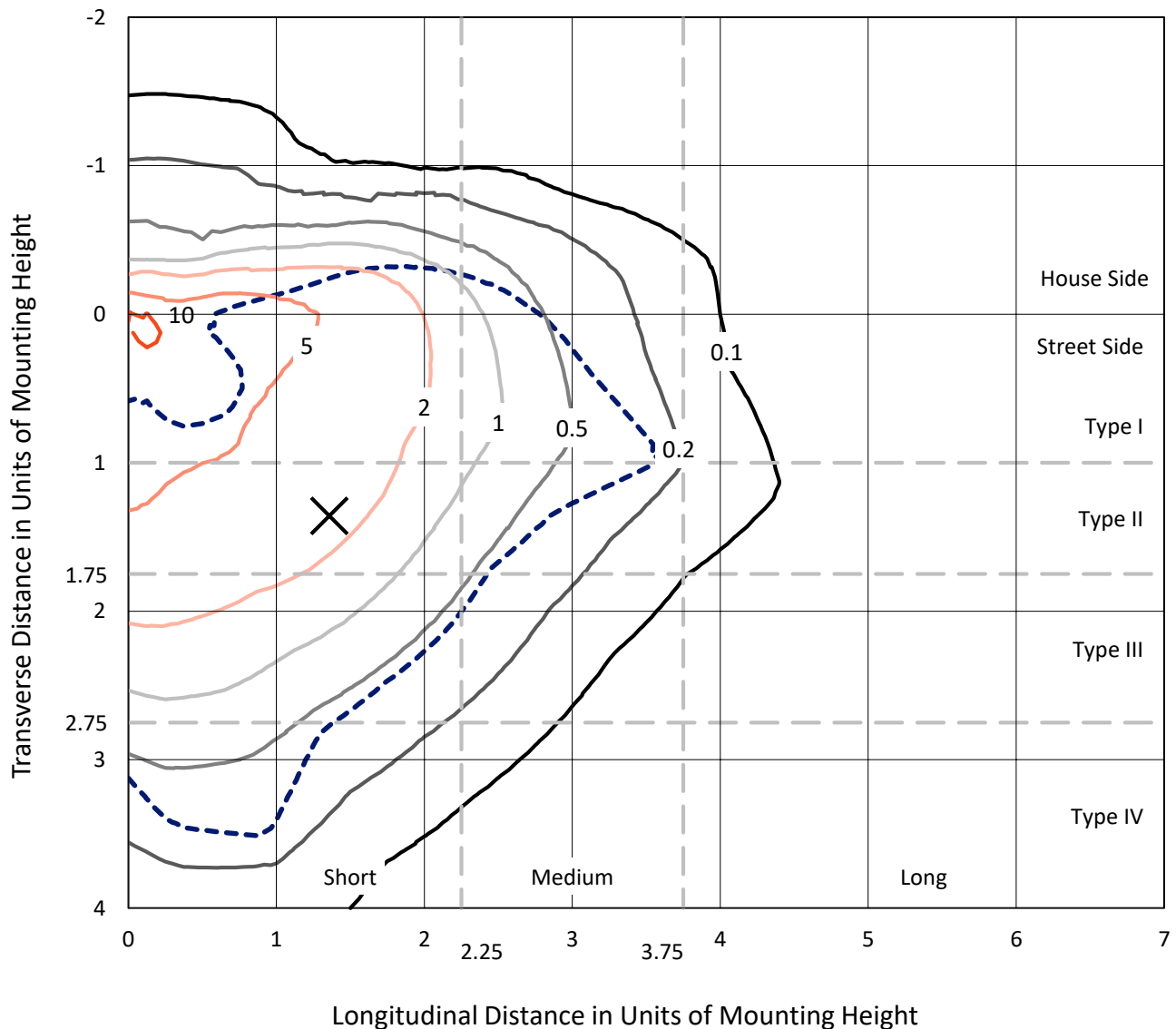


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

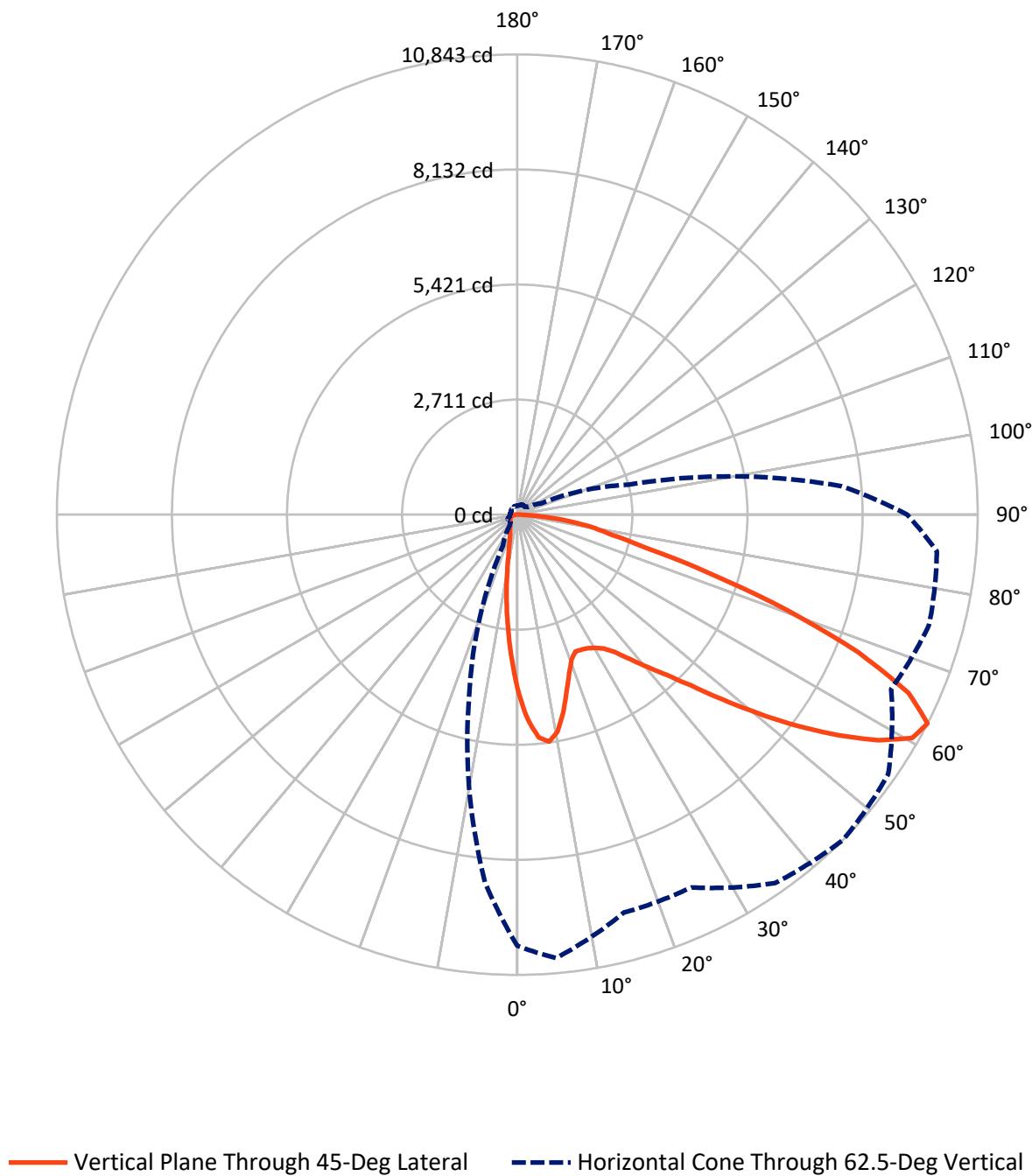


Based on 20 foot mounting height. Maximum calculated value = 12.4 fc  
Type IV - Short - Non-Cutoff

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## Luminous Intensity Polar Plot



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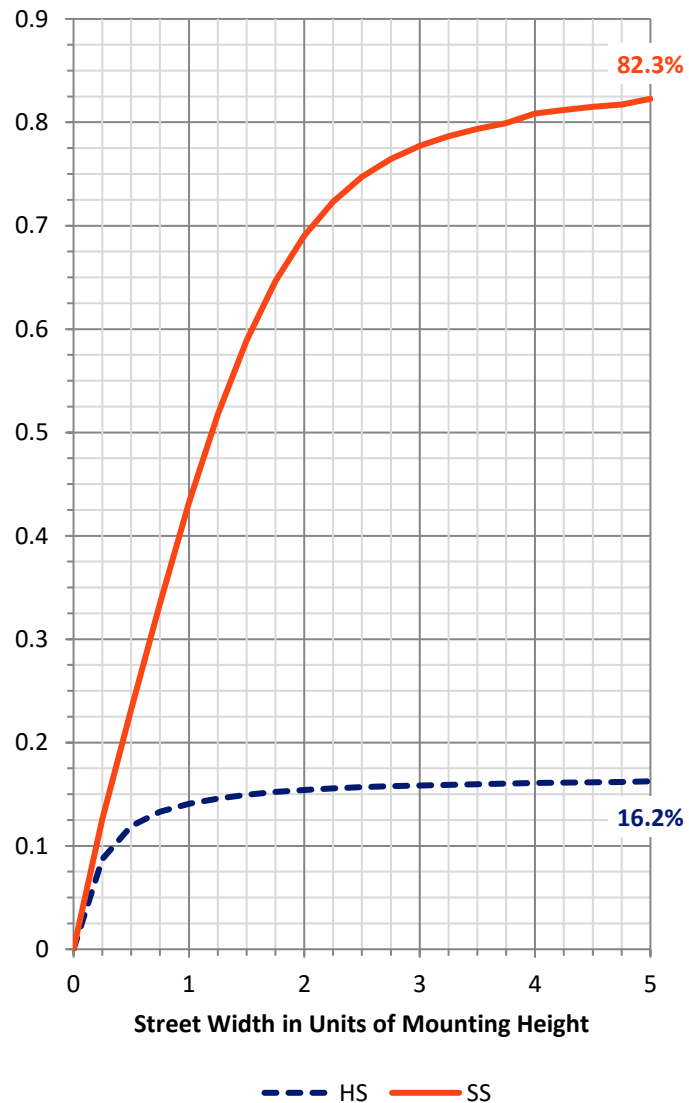
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2065.2   | 0.0    | 2065.2  |
|                    | % Fixture | 16.5     | 0.0    | 16.5    |
| <b>Street Side</b> | Lumens    | 10414.4  | 0.0    | 10414.4 |
|                    | % Fixture | 83.5     | 0.0    | 83.5    |
| <b>Total</b>       | Lumens    | 12479.6  | 0.0    | 12479.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 306.9   | 2.5       |
| 10°-20°   | 562.8   | 4.5       |
| 20°-30°   | 820.6   | 6.6       |
| 30°-40°   | 1263.8  | 10.1      |
| 40°-50°   | 1860.0  | 14.9      |
| 50°-60°   | 2728.3  | 21.9      |
| 60°-70°   | 3049.8  | 24.4      |
| 70°-80°   | 1493.1  | 12.0      |
| 80°-90°   | 394.2   | 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°    | 12479.6 | 100.0     |
| 0°-180°   | 12479.6 | 100.0     |

**Coefficient of Utilization**



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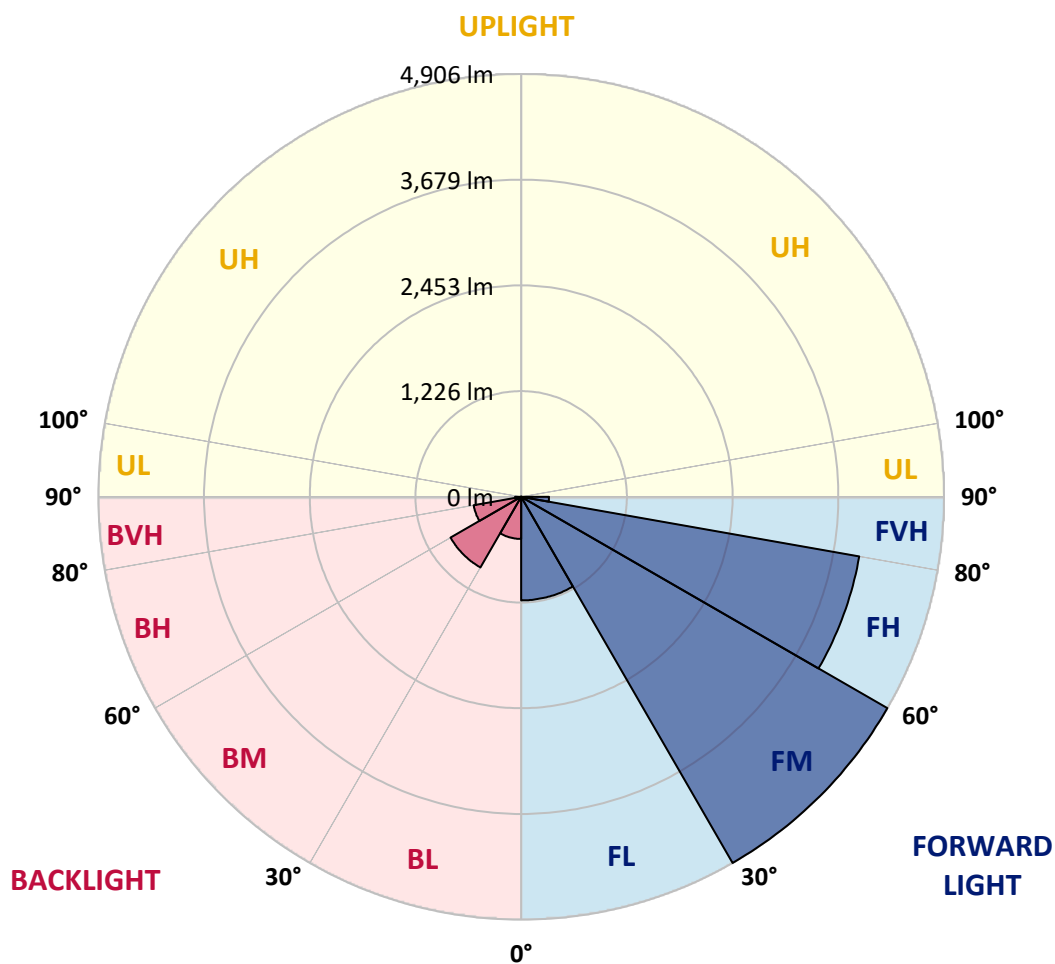
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1201.7 | 9.6       |                         |      |         |
| FM   | (30°-60°)   | 4905.8 | 39.3      |                         |      |         |
| FH   | (60°-80°)   | 3983.1 | 31.9      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 323.8  | 2.6       |                         |      | G3/500  |
| BL   | (0°-30°)    | 488.6  | 3.9       | B1/500                  |      |         |
| BM   | (30°-60°)   | 946.3  | 7.6       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 559.9  | 4.5       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 70.5   | 0.6       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°    | 35°     | 45°     | 55°     | 65°    | 75°     | 85°     | 90°    |
|-------|---------|---------|---------|--------|---------|---------|---------|--------|---------|---------|--------|
| 0°    | 4216.4  | 4216.4  | 4216.4  | 4216.4 | 4216.4  | 4216.4  | 4216.4  | 4216.4 | 4216.4  | 4216.4  | 4216.4 |
| 2.5°  | 4381.0  | 4450.9  | 4587.5  | 4689.6 | 4813.9  | 4842.6  | 4882.4  | 4843.4 | 4774.0  | 4682.1  | 4651.9 |
| 5°    | 4119.5  | 4269.1  | 4600.5  | 4892.0 | 5151.3  | 5272.1  | 5305.6  | 5206.2 | 5005.1  | 4741.1  | 4579.8 |
| 7.5°  | 3700.4  | 3913.0  | 4361.7  | 4791.1 | 5173.3  | 5398.9  | 5393.5  | 5162.3 | 4792.5  | 4362.4  | 4103.8 |
| 10°   | 3338.9  | 3581.7  | 4096.2  | 4576.5 | 4981.9  | 5200.7  | 5116.3  | 4820.6 | 4379.5  | 3884.2  | 3603.7 |
| 12.5° | 3136.5  | 3374.6  | 3896.6  | 4378.9 | 4717.7  | 4793.2  | 4728.7  | 4439.2 | 4023.5  | 3522.7  | 3277.1 |
| 15°   | 3101.6  | 3362.9  | 3817.0  | 4209.4 | 4399.5  | 4333.6  | 4256.7  | 4127.0 | 3833.5  | 3406.0  | 3150.2 |
| 17.5° | 3253.0  | 3541.2  | 3908.2  | 4091.4 | 4059.2  | 3944.6  | 3922.6  | 3937.0 | 3866.3  | 3535.7  | 3240.7 |
| 20°   | 3544.0  | 3889.7  | 4125.7  | 4035.8 | 3800.6  | 3642.8  | 3648.2  | 3868.5 | 4077.7  | 3864.4  | 3527.6 |
| 22.5° | 3952.1  | 4346.7  | 4439.2  | 4065.3 | 3691.5  | 3504.2  | 3549.5  | 3906.2 | 4414.5  | 4344.5  | 3914.4 |
| 25°   | 4480.4  | 4839.8  | 4773.3  | 4172.4 | 3702.5  | 3521.3  | 3557.7  | 4036.6 | 4812.5  | 4824.8  | 4393.4 |
| 27.5° | 4992.2  | 5325.7  | 5053.9  | 4314.4 | 3747.7  | 3561.9  | 3609.8  | 4241.7 | 5192.4  | 5346.2  | 4940.7 |
| 30°   | 5391.4  | 5623.3  | 5165.0  | 4444.0 | 3836.8  | 3640.7  | 3700.4  | 4436.5 | 5365.4  | 5698.1  | 5361.9 |
| 32.5° | 5722.1  | 5888.7  | 5342.0  | 4604.5 | 4000.8  | 3764.8  | 3869.9  | 4673.1 | 5614.4  | 6032.9  | 5774.3 |
| 35°   | 6144.6  | 6192.0  | 5562.3  | 4783.6 | 4254.0  | 3981.0  | 4111.3  | 4905.0 | 5851.7  | 6371.0  | 6180.4 |
| 37.5° | 6640.0  | 6578.9  | 5770.1  | 5028.5 | 4581.2  | 4319.1  | 4426.8  | 5159.6 | 6047.3  | 6754.5  | 6595.4 |
| 40°   | 7129.8  | 6983.0  | 6030.8  | 5408.6 | 5058.7  | 4717.7  | 4845.3  | 5431.2 | 6229.8  | 7138.7  | 7000.8 |
| 42.5° | 7546.2  | 7328.8  | 6288.1  | 5826.4 | 5503.3  | 5157.5  | 5309.8  | 5705.0 | 6404.0  | 7466.7  | 7352.7 |
| 45°   | 7854.2  | 7583.9  | 6532.9  | 6227.7 | 6115.9  | 5742.0  | 5814.0  | 6018.4 | 6592.7  | 7740.4  | 7642.2 |
| 47.5° | 8129.3  | 7840.6  | 6810.1  | 6632.5 | 6651.7  | 6502.1  | 6386.2  | 6383.4 | 6814.9  | 7964.0  | 7916.0 |
| 50°   | 8497.7  | 8196.5  | 7107.9  | 7049.5 | 7455.7  | 7356.2  | 7100.3  | 6809.5 | 7096.2  | 8217.8  | 8212.4 |
| 52.5° | 9005.3  | 8760.5  | 7471.4  | 7498.9 | 8206.1  | 8271.4  | 7954.4  | 7321.3 | 7536.6  | 8683.6  | 8650.7 |
| 55°   | 9605.6  | 9463.0  | 7966.7  | 8015.5 | 9126.9  | 9173.4  | 8858.5  | 7961.2 | 8184.2  | 9357.9  | 9266.8 |
| 57.5° | 10074.2 | 10043.9 | 8510.1  | 8635.7 | 9814.2  | 10024.1 | 9734.7  | 8702.2 | 8914.1  | 9925.9  | 9696.9 |
| 60°   | 10260.7 | 10407.0 | 9088.4  | 9261.3 | 10450.1 | 10682.8 | 10428.9 | 9353.2 | 9561.1  | 10161.3 | 9667.4 |
| 62.5° | 10159.9 | 10486.4 | 9704.4  | 9689.9 | 10592.1 | 10842.6 | 10664.1 | 9715.5 | 10040.6 | 9918.4  | 9178.3 |
| 65°   | 9694.1  | 10200.5 | 10061.9 | 9579.7 | 10106.5 | 10127.0 | 10069.5 | 9553.5 | 10153.8 | 9150.8  | 8232.9 |
| 67.5° | 8679.5  | 9408.1  | 9591.3  | 8632.9 | 8796.1  | 8662.4  | 8565.6  | 8667.2 | 9563.8  | 8000.4  | 6919.2 |
| 70°   | 7069.4  | 8165.7  | 8253.6  | 6904.7 | 6830.7  | 6740.9  | 6548.0  | 7105.7 | 8399.7  | 6556.9  | 5490.2 |
| 72.5° | 5198.0  | 6350.4  | 6620.1  | 5064.1 | 4721.2  | 4739.6  | 4587.5  | 5355.2 | 6829.4  | 4870.8  | 4099.0 |
| 75°   | 3556.3  | 4598.4  | 5179.4  | 3533.7 | 3122.1  | 3129.6  | 3110.4  | 3794.3 | 5439.5  | 3388.2  | 3067.2 |
| 77.5° | 2597.9  | 3285.3  | 3906.2  | 2375.8 | 2306.4  | 2263.9  | 2253.6  | 2654.9 | 4170.3  | 2460.1  | 2381.9 |
| 80°   | 2084.7  | 2427.0  | 2624.1  | 1646.4 | 1770.6  | 1767.2  | 1710.2  | 1825.5 | 2723.5  | 1799.4  | 1781.6 |
| 82.5° | 1446.1  | 1865.3  | 2125.9  | 1290.4 | 1195.1  | 1175.2  | 1188.8  | 1359.7 | 1924.9  | 1230.0  | 1169.6 |
| 85°   | 762.8   | 1239.0  | 2105.4  | 1143.6 | 709.3   | 566.0   | 703.8   | 1113.5 | 1667.8  | 651.7   | 570.8  |
| 87.5° | 97.5    | 358.2   | 1394.0  | 456.1  | 279.9   | 150.9   | 334.2   | 627.0  | 1070.8  | 133.1   | 116.0  |
| 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°    | 4216.4 | 4216.4 | 4216.4 | 4216.4 | 4216.4 | 4216.4 | 4216.4 | 4216.4 | 4216.4 | 4216.4 | 4216.4 |
| 2.5°  | 4574.3 | 4483.1 | 4363.9 | 4253.4 | 4138.7 | 4024.9 | 3876.0 | 3782.7 | 3718.2 | 3705.8 | 3678.4 |
| 5°    | 4463.2 | 4160.0 | 3930.9 | 3732.7 | 3552.9 | 3299.1 | 3158.4 | 3041.8 | 2979.4 | 2973.2 | 2958.0 |
| 7.5°  | 3950.9 | 3532.4 | 3222.9 | 2942.4 | 2687.8 | 2482.7 | 2256.3 | 2150.7 | 2107.5 | 2117.8 | 2128.1 |
| 10°   | 3417.7 | 2949.9 | 2594.6 | 2307.8 | 2083.5 | 1910.6 | 1728.8 | 1606.0 | 1520.9 | 1503.7 | 1500.3 |
| 12.5° | 3028.1 | 2514.9 | 2169.9 | 1967.5 | 1793.9 | 1631.4 | 1438.6 | 1293.8 | 1183.4 | 1145.7 | 1120.2 |
| 15°   | 2863.4 | 2302.3 | 1940.8 | 1722.6 | 1531.2 | 1324.7 | 1145.7 | 994.0  | 892.5  | 859.6  | 841.1  |
| 17.5° | 2898.4 | 2243.3 | 1783.0 | 1503.7 | 1258.8 | 1043.4 | 817.7  | 688.2  | 627.0  | 611.2  | 611.2  |
| 20°   | 3082.3 | 2232.2 | 1652.6 | 1302.1 | 996.8  | 747.2  | 561.8  | 487.8  | 467.8  | 465.8  | 471.4  |
| 22.5° | 3340.3 | 2270.7 | 1555.2 | 1127.1 | 774.5  | 545.4  | 437.7  | 410.3  | 401.3  | 403.3  | 409.5  |
| 25°   | 3724.4 | 2400.4 | 1484.5 | 971.5  | 607.8  | 446.7  | 390.4  | 373.8  | 369.8  | 375.3  | 382.9  |
| 27.5° | 4179.9 | 2530.0 | 1440.7 | 854.1  | 513.2  | 408.2  | 371.2  | 354.0  | 356.7  | 363.7  | 370.5  |
| 30°   | 4579.8 | 2636.4 | 1371.3 | 770.4  | 483.7  | 410.3  | 371.2  | 347.8  | 345.0  | 346.5  | 348.5  |
| 32.5° | 4938.6 | 2708.4 | 1290.4 | 690.8  | 417.2  | 364.3  | 346.5  | 343.0  | 327.9  | 322.5  | 323.1  |
| 35°   | 5248.0 | 2708.4 | 1241.7 | 644.2  | 373.8  | 323.1  | 294.4  | 277.2  | 269.7  | 270.3  | 277.8  |
| 37.5° | 5546.4 | 2654.2 | 1217.7 | 618.1  | 350.5  | 307.3  | 282.0  | 266.8  | 256.5  | 254.5  | 255.8  |
| 40°   | 5809.9 | 2575.3 | 1190.3 | 607.2  | 332.7  | 297.7  | 273.7  | 261.3  | 250.4  | 246.9  | 247.7  |
| 42.5° | 6021.2 | 2511.6 | 1160.0 | 592.7  | 321.8  | 290.8  | 268.2  | 257.3  | 245.0  | 241.5  | 240.8  |
| 45°   | 6249.6 | 2490.2 | 1120.2 | 563.9  | 327.2  | 291.6  | 266.8  | 255.2  | 242.9  | 238.7  | 237.3  |
| 47.5° | 6550.8 | 2556.7 | 1079.2 | 529.6  | 338.9  | 295.0  | 268.9  | 255.2  | 242.1  | 238.7  | 237.3  |
| 50°   | 6930.2 | 2713.2 | 1026.9 | 479.5  | 327.2  | 304.7  | 268.2  | 253.2  | 242.1  | 238.7  | 236.0  |
| 52.5° | 7417.3 | 2924.6 | 958.4  | 421.8  | 320.3  | 327.9  | 266.8  | 249.0  | 238.7  | 234.0  | 229.1  |
| 55°   | 8009.2 | 3097.4 | 876.7  | 374.5  | 304.7  | 321.8  | 264.9  | 244.2  | 233.3  | 226.3  | 222.3  |
| 57.5° | 8442.9 | 3159.8 | 771.8  | 343.7  | 282.7  | 311.5  | 262.1  | 238.0  | 226.3  | 220.9  | 215.5  |
| 60°   | 8357.1 | 3039.0 | 683.3  | 324.5  | 269.7  | 281.3  | 260.0  | 232.6  | 220.2  | 216.2  | 211.3  |
| 62.5° | 7670.4 | 2723.5 | 626.4  | 315.5  | 261.3  | 256.5  | 262.1  | 227.0  | 214.7  | 210.7  | 209.2  |
| 65°   | 6640.7 | 2257.8 | 603.6  | 313.5  | 254.5  | 242.1  | 243.5  | 220.9  | 208.5  | 205.1  | 203.8  |
| 67.5° | 5477.8 | 1822.1 | 583.8  | 320.3  | 245.7  | 231.8  | 225.0  | 212.6  | 202.3  | 199.0  | 196.2  |
| 70°   | 4319.9 | 1515.4 | 574.9  | 316.3  | 234.6  | 221.6  | 214.0  | 203.8  | 194.8  | 191.4  | 189.3  |
| 72.5° | 3478.9 | 1280.1 | 570.2  | 312.2  | 220.2  | 207.8  | 201.0  | 192.1  | 182.5  | 181.2  | 179.0  |
| 75°   | 2943.7 | 1006.4 | 522.0  | 299.2  | 203.8  | 191.4  | 186.7  | 178.3  | 168.8  | 168.8  | 167.3  |
| 77.5° | 2270.7 | 727.8  | 434.2  | 264.9  | 186.7  | 172.8  | 168.8  | 162.6  | 151.7  | 153.6  | 153.0  |
| 80°   | 1677.3 | 474.7  | 339.6  | 219.5  | 165.3  | 152.3  | 150.2  | 144.1  | 132.4  | 135.2  | 135.2  |
| 82.5° | 1149.1 | 311.5  | 244.2  | 179.7  | 141.3  | 128.9  | 128.9  | 122.8  | 109.8  | 111.1  | 115.3  |
| 85°   | 576.9  | 214.0  | 182.5  | 139.3  | 109.8  | 103.6  | 103.6  | 98.8   | 85.8   | 86.5   | 91.9   |
| 87.5° | 175.6  | 128.9  | 120.7  | 99.4   | 78.8   | 77.6   | 74.1   | 70.7   | 62.4   | 61.7   | 65.1   |
| 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°    | 4216.4 | 4216.4 | 4216.4 | 4216.4 | 4216.4 | 4216.4 | 4216.4 | 4216.4 | 4216.4 | 4216.4 | 4216.4 |
| 2.5°  | 3636.5 | 3597.5 | 3550.2 | 3445.9 | 3410.8 | 3408.8 | 3440.3 | 3407.5 | 3470.6 | 3443.9 | 3473.4 |
| 5°    | 2932.7 | 2894.3 | 2841.5 | 2708.4 | 2627.4 | 2572.6 | 2546.5 | 2469.7 | 2525.2 | 2484.8 | 2518.4 |
| 7.5°  | 2156.9 | 2165.7 | 2130.8 | 2052.6 | 1876.3 | 1787.8 | 1735.6 | 1688.9 | 1729.5 | 1725.3 | 1789.7 |
| 10°   | 1516.1 | 1540.1 | 1515.4 | 1436.5 | 1293.8 | 1245.1 | 1254.8 | 1273.3 | 1326.1 | 1353.5 | 1453.0 |
| 12.5° | 1091.5 | 1090.1 | 1074.3 | 1003.6 | 909.7  | 915.1  | 954.3  | 986.5  | 1035.2 | 1063.9 | 1165.6 |
| 15°   | 815.0  | 802.6  | 795.7  | 738.1  | 684.6  | 696.3  | 715.5  | 718.9  | 749.8  | 767.0  | 849.3  |
| 17.5° | 616.0  | 622.2  | 629.8  | 588.6  | 548.2  | 540.7  | 525.5  | 507.0  | 515.9  | 519.3  | 560.5  |
| 20°   | 489.2  | 513.8  | 532.3  | 503.5  | 462.3  | 440.5  | 421.2  | 408.8  | 408.8  | 408.2  | 419.9  |
| 22.5° | 427.4  | 445.2  | 465.1  | 445.2  | 408.2  | 389.0  | 378.0  | 368.4  | 367.0  | 367.0  | 378.0  |
| 25°   | 393.8  | 406.8  | 426.0  | 412.4  | 384.8  | 370.5  | 360.1  | 347.8  | 343.0  | 341.7  | 349.2  |
| 27.5° | 377.3  | 382.9  | 392.3  | 380.0  | 356.7  | 349.8  | 347.1  | 336.2  | 330.0  | 326.5  | 334.2  |
| 30°   | 349.2  | 347.8  | 348.5  | 336.2  | 317.6  | 317.0  | 321.8  | 323.9  | 321.8  | 321.0  | 332.7  |
| 32.5° | 323.1  | 320.3  | 319.7  | 308.6  | 291.6  | 287.5  | 291.6  | 295.6  | 300.5  | 307.3  | 321.0  |
| 35°   | 290.2  | 297.0  | 301.1  | 291.6  | 271.0  | 258.6  | 253.8  | 246.3  | 242.1  | 242.1  | 258.0  |
| 37.5° | 264.1  | 279.9  | 286.0  | 277.2  | 254.5  | 237.3  | 229.1  | 227.8  | 228.5  | 231.2  | 246.3  |
| 40°   | 255.2  | 266.8  | 272.4  | 263.5  | 240.8  | 225.0  | 220.2  | 218.8  | 220.2  | 224.3  | 239.4  |
| 42.5° | 249.6  | 258.0  | 257.3  | 246.3  | 227.8  | 216.8  | 214.0  | 212.6  | 214.0  | 218.2  | 234.6  |
| 45°   | 245.0  | 250.4  | 245.0  | 231.8  | 214.7  | 209.2  | 209.9  | 209.2  | 210.7  | 214.7  | 230.5  |
| 47.5° | 240.8  | 242.9  | 236.0  | 223.0  | 205.1  | 203.8  | 206.5  | 208.5  | 209.9  | 213.4  | 229.8  |
| 50°   | 234.6  | 234.6  | 228.5  | 214.7  | 196.8  | 197.5  | 201.0  | 205.9  | 206.5  | 210.7  | 223.7  |
| 52.5° | 227.0  | 226.3  | 222.3  | 209.2  | 190.0  | 192.1  | 192.1  | 197.5  | 199.0  | 203.8  | 217.4  |
| 55°   | 220.9  | 219.5  | 217.4  | 205.1  | 183.9  | 187.3  | 185.2  | 187.3  | 190.7  | 195.5  | 210.7  |
| 57.5° | 215.5  | 212.6  | 212.6  | 201.7  | 179.0  | 180.4  | 175.6  | 178.3  | 182.5  | 186.7  | 202.3  |
| 60°   | 209.9  | 207.1  | 208.5  | 196.8  | 171.5  | 170.1  | 168.0  | 173.6  | 175.0  | 179.7  | 195.5  |
| 62.5° | 203.8  | 201.7  | 202.3  | 191.4  | 166.0  | 162.6  | 162.6  | 167.3  | 168.0  | 175.0  | 190.0  |
| 65°   | 199.0  | 196.2  | 195.5  | 186.0  | 159.8  | 155.7  | 157.8  | 159.8  | 161.2  | 168.0  | 182.5  |
| 67.5° | 194.2  | 188.7  | 188.7  | 181.2  | 153.0  | 148.9  | 153.0  | 152.3  | 154.4  | 160.5  | 172.2  |
| 70°   | 187.9  | 180.4  | 181.2  | 177.6  | 146.1  | 141.3  | 144.8  | 144.1  | 145.5  | 149.5  | 161.2  |
| 72.5° | 178.3  | 172.2  | 173.6  | 172.2  | 139.3  | 132.4  | 133.8  | 133.8  | 133.8  | 137.2  | 149.5  |
| 75°   | 166.0  | 161.2  | 165.3  | 168.8  | 131.0  | 121.4  | 122.8  | 122.8  | 120.7  | 122.8  | 137.8  |
| 77.5° | 150.9  | 148.1  | 161.9  | 157.2  | 121.4  | 109.8  | 109.8  | 108.3  | 104.3  | 107.0  | 123.5  |
| 80°   | 134.5  | 132.4  | 149.5  | 131.7  | 110.5  | 95.4   | 94.0   | 90.5   | 86.5   | 88.5   | 105.0  |
| 82.5° | 117.4  | 115.3  | 125.5  | 100.8  | 95.4   | 78.8   | 75.5   | 69.3   | 65.1   | 67.2   | 82.3   |
| 85°   | 96.0   | 96.0   | 96.7   | 76.2   | 72.7   | 60.4   | 56.3   | 48.1   | 43.2   | 44.6   | 59.0   |
| 87.5° | 68.7   | 70.7   | 65.1   | 52.1   | 43.2   | 33.7   | 30.9   | 26.1   | 22.0   | 25.3   | 30.9   |
| 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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|-------|--------|--------|--------|--------|--------|--------|--------|---------|
| 0°    | 4216.4 | 4216.4 | 4216.4 | 4216.4 | 4216.4 | 4216.4 | 4216.4 | 4216.4  |
| 2.5°  | 3624.2 | 3699.7 | 3785.5 | 3895.2 | 3989.2 | 4143.5 | 4291.7 | 4381.0  |
| 5°    | 2709.7 | 2835.3 | 2991.7 | 3192.8 | 3380.1 | 3661.3 | 3940.6 | 4119.5  |
| 7.5°  | 1939.4 | 2073.8 | 2242.5 | 2493.8 | 2758.5 | 3117.2 | 3486.4 | 3700.4  |
| 10°   | 1604.6 | 1742.4 | 1884.5 | 2054.0 | 2270.7 | 2661.1 | 3097.4 | 3338.9  |
| 12.5° | 1327.5 | 1474.9 | 1628.0 | 1806.3 | 2007.3 | 2355.7 | 2858.7 | 3136.5  |
| 15°   | 1016.0 | 1180.6 | 1361.1 | 1586.8 | 1838.5 | 2241.2 | 2799.7 | 3101.6  |
| 17.5° | 696.3  | 880.2  | 1101.8 | 1380.3 | 1688.3 | 2204.2 | 2905.3 | 3253.0  |
| 20°   | 479.5  | 613.3  | 849.9  | 1176.5 | 1547.0 | 2199.4 | 3108.3 | 3544.0  |
| 22.5° | 401.3  | 461.0  | 633.9  | 989.3  | 1440.7 | 2258.4 | 3423.2 | 3952.1  |
| 25°   | 371.2  | 406.8  | 506.3  | 826.6  | 1363.1 | 2394.2 | 3856.9 | 4480.4  |
| 27.5° | 353.4  | 385.5  | 459.7  | 720.3  | 1302.1 | 2552.0 | 4278.7 | 4992.2  |
| 30°   | 360.1  | 393.2  | 446.7  | 666.2  | 1219.0 | 2683.7 | 4653.3 | 5391.4  |
| 32.5° | 324.5  | 338.9  | 382.9  | 618.1  | 1159.4 | 2794.2 | 4981.2 | 5722.1  |
| 35°   | 276.4  | 301.9  | 341.7  | 595.5  | 1160.8 | 2868.3 | 5338.6 | 6144.6  |
| 37.5° | 263.5  | 288.8  | 317.6  | 587.3  | 1176.5 | 2947.2 | 5748.9 | 6640.0  |
| 40°   | 255.2  | 278.5  | 303.2  | 582.5  | 1191.6 | 3019.2 | 6150.9 | 7129.8  |
| 42.5° | 249.6  | 271.0  | 301.9  | 566.0  | 1199.1 | 3083.7 | 6481.5 | 7546.2  |
| 45°   | 249.0  | 271.0  | 307.3  | 549.5  | 1210.8 | 3152.9 | 6758.7 | 7854.2  |
| 47.5° | 249.6  | 279.9  | 297.0  | 529.6  | 1210.8 | 3268.9 | 7083.9 | 8129.3  |
| 50°   | 246.9  | 295.0  | 286.0  | 501.5  | 1182.7 | 3488.4 | 7529.7 | 8497.7  |
| 52.5° | 245.7  | 293.0  | 264.9  | 458.3  | 1134.0 | 3836.8 | 8101.2 | 9005.3  |
| 55°   | 242.1  | 282.7  | 249.6  | 393.8  | 1077.1 | 4217.0 | 8713.1 | 9605.6  |
| 57.5° | 238.7  | 250.4  | 241.5  | 337.5  | 989.3  | 4484.5 | 9134.4 | 10074.2 |
| 60°   | 267.5  | 218.8  | 234.6  | 310.1  | 871.9  | 4558.0 | 9117.9 | 10260.7 |
| 62.5° | 247.7  | 205.1  | 225.7  | 304.0  | 789.6  | 4352.2 | 8696.7 | 10159.9 |
| 65°   | 194.2  | 196.2  | 216.8  | 321.8  | 767.6  | 3806.7 | 7950.2 | 9694.1  |
| 67.5° | 177.6  | 187.3  | 207.8  | 344.3  | 769.7  | 3048.0 | 6834.8 | 8679.5  |
| 70°   | 167.3  | 177.6  | 197.5  | 356.0  | 775.2  | 2272.0 | 5403.8 | 7069.4  |
| 72.5° | 155.7  | 164.7  | 186.0  | 358.2  | 739.5  | 1650.6 | 4164.9 | 5198.0  |
| 75°   | 142.0  | 150.2  | 169.5  | 312.2  | 612.6  | 1144.9 | 3185.9 | 3556.3  |
| 77.5° | 126.2  | 132.4  | 148.9  | 240.8  | 454.8  | 732.7  | 2391.4 | 2597.9  |
| 80°   | 107.7  | 111.1  | 124.9  | 176.4  | 311.5  | 458.3  | 1892.1 | 2084.7  |
| 82.5° | 86.5   | 87.9   | 96.7   | 132.4  | 202.3  | 294.4  | 1267.1 | 1446.1  |
| 85°   | 61.0   | 61.0   | 66.5   | 96.0   | 137.8  | 186.7  | 688.2  | 762.8   |
| 87.5° | 28.9   | 29.5   | 29.5   | 52.8   | 72.0   | 94.6   | 158.4  | 97.5    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     |

(END OF REPORT)