

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: P950569

Luminaire Tested: **GALN-SB5A-727-U-SL2**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P950569  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5A-727-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 20890 lumens  
Efficiency: N/A  
Efficacy: 147.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 141.7  
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



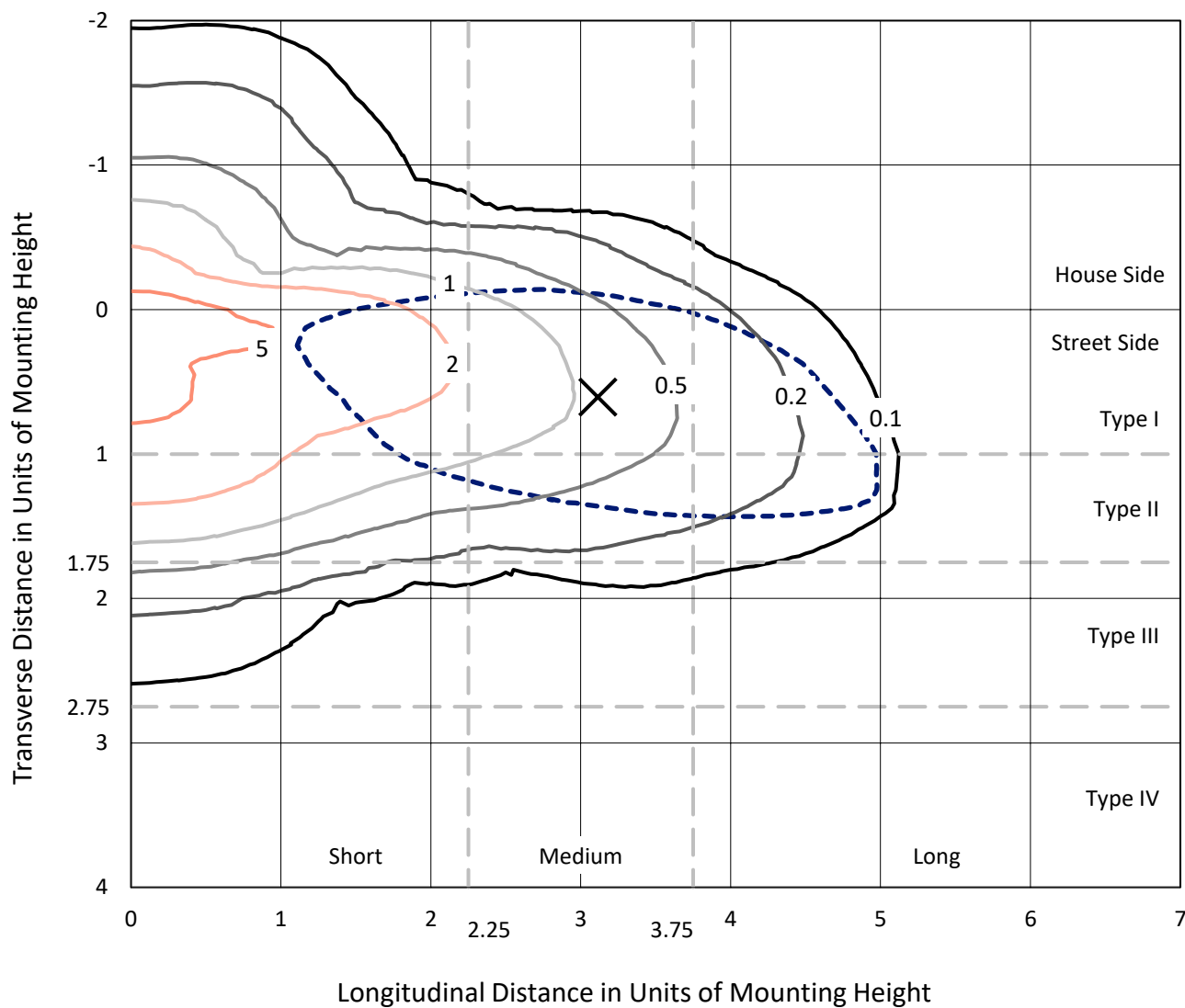
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## Iso-Footcandle Lines of Horizontal Illumination

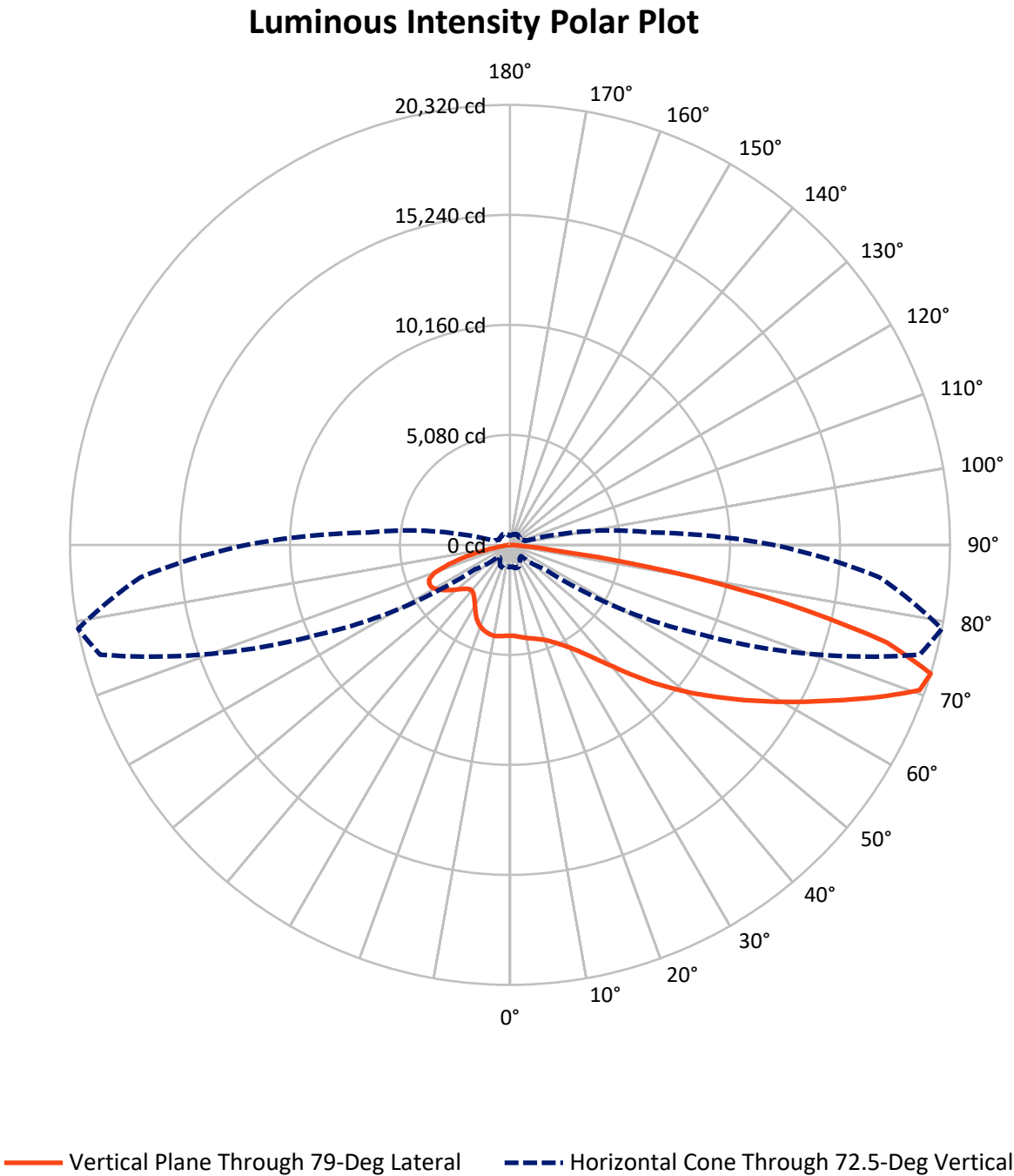
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc  
 Type II - Medium - N/A

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4596.9   | 0.0    | 4596.9  |
|                    | % Fixture | 22.0     | 0.0    | 22.0    |
| <b>Street Side</b> | Lumens    | 16293.1  | 0.0    | 16293.1 |
|                    | % Fixture | 78.0     | 0.0    | 78.0    |
| <b>Total</b>       | Lumens    | 20890.0  | 0.0    | 20890.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 380.6   | 1.8       |
| 10°-20°   | 995.2   | 4.8       |
| 20°-30°   | 1605.8  | 7.7       |
| 30°-40°   | 2410.1  | 11.5      |
| 40°-50°   | 3418.9  | 16.4      |
| 50°-60°   | 4317.6  | 20.7      |
| 60°-70°   | 4385.2  | 21.0      |
| 70°-80°   | 2988.7  | 14.3      |
| 80°-90°   | 387.8   | 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°    | 20890.0 | 100.0     |
| 0°-180°   | 20890.0 | 100.0     |

**Coefficient of Utilization**



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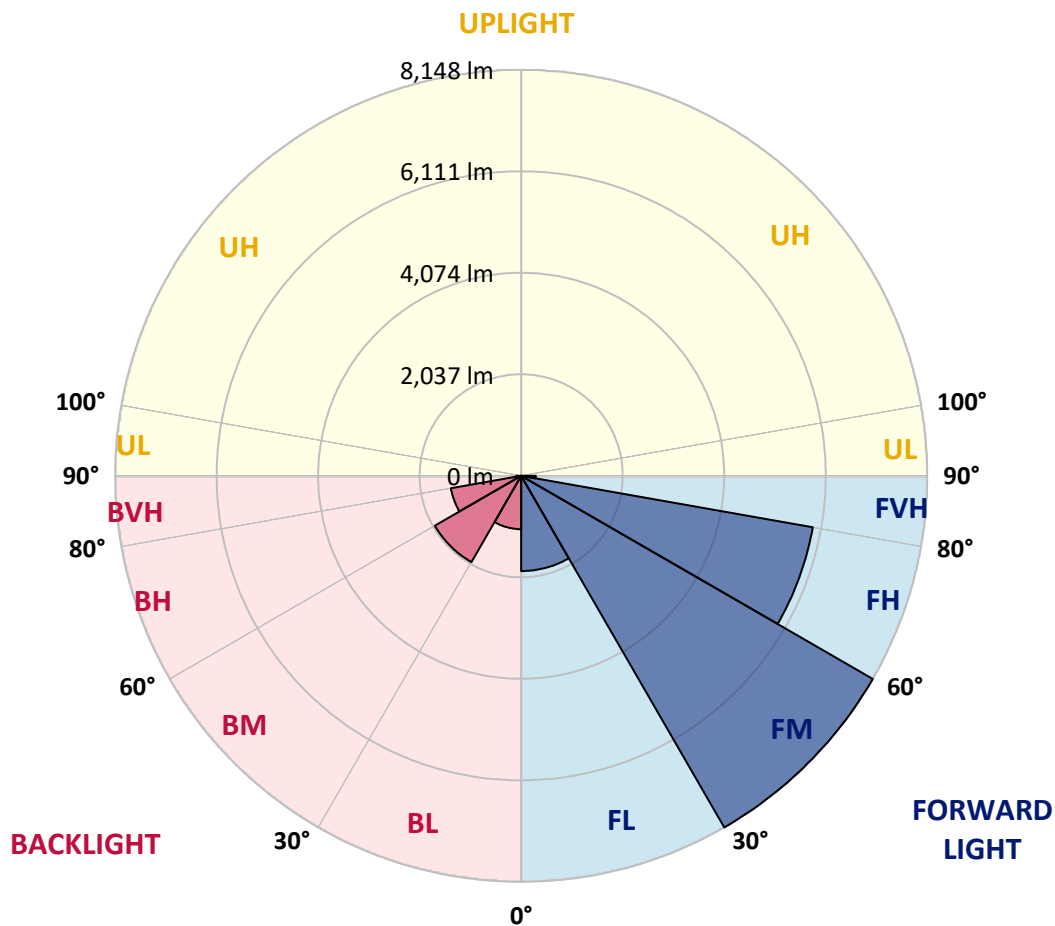
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1910.9 | 9.1       |                         |      |         |
| FM   | (30°-60°)   | 8147.5 | 39.0      |                         |      |         |
| FH   | (60°-80°)   | 5942.5 | 28.4      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 292.1  | 1.4       |                         |      | G3/500  |
| BL   | (0°-30°)    | 1070.8 | 5.1       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 1999.2 | 9.6       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1431.3 | 6.9       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 95.7   | 0.5       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°     | 75°     | 79°     | 85°     |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0°    | 4193.5 | 4193.5 | 4193.5 | 4193.5 | 4193.5 | 4193.5 | 4193.5 | 4193.5  | 4193.5  | 4193.5  | 4193.5  |
| 2.5°  | 4195.7 | 4175.8 | 4187.9 | 4183.5 | 4189.0 | 4195.7 | 4197.9 | 4201.2  | 4212.3  | 4211.1  | 4210.0  |
| 5°    | 4186.8 | 4166.9 | 4183.5 | 4178.0 | 4192.4 | 4207.8 | 4221.1 | 4233.2  | 4250.9  | 4258.7  | 4247.6  |
| 7.5°  | 4168.1 | 4154.8 | 4171.4 | 4187.9 | 4214.5 | 4237.7 | 4256.5 | 4284.1  | 4309.5  | 4313.9  | 4321.6  |
| 10°   | 4058.7 | 4048.7 | 4087.4 | 4130.5 | 4203.4 | 4266.4 | 4307.3 | 4339.3  | 4367.0  | 4371.4  | 4382.4  |
| 12.5° | 3944.8 | 3932.7 | 3975.8 | 4034.3 | 4152.6 | 4266.4 | 4352.6 | 4394.6  | 4418.9  | 4433.3  | 4449.8  |
| 15°   | 3926.1 | 3916.1 | 3940.4 | 3991.3 | 4089.6 | 4236.6 | 4383.5 | 4460.9  | 4481.9  | 4498.4  | 4505.1  |
| 17.5° | 4016.7 | 3997.9 | 4007.8 | 4025.5 | 4083.0 | 4208.9 | 4407.8 | 4536.0  | 4568.1  | 4585.7  | 4585.7  |
| 20°   | 4226.6 | 4200.1 | 4184.6 | 4149.3 | 4139.3 | 4213.4 | 4405.6 | 4626.6  | 4668.6  | 4690.7  | 4696.2  |
| 22.5° | 4506.2 | 4488.5 | 4455.4 | 4365.8 | 4268.6 | 4267.5 | 4447.6 | 4742.7  | 4821.1  | 4842.1  | 4828.8  |
| 25°   | 4844.3 | 4817.8 | 4775.8 | 4654.3 | 4467.5 | 4374.7 | 4518.3 | 4890.7  | 5022.2  | 5027.7  | 4989.1  |
| 27.5° | 5233.3 | 5193.5 | 5136.0 | 4975.8 | 4723.9 | 4542.6 | 4626.6 | 5060.9  | 5253.2  | 5251.0  | 5171.4  |
| 30°   | 5643.2 | 5603.4 | 5542.7 | 5348.2 | 5031.1 | 4769.2 | 4776.9 | 5244.3  | 5527.2  | 5515.0  | 5379.1  |
| 32.5° | 5942.7 | 5912.8 | 5900.7 | 5750.4 | 5384.7 | 5036.6 | 4949.3 | 5447.6  | 5865.3  | 5854.3  | 5664.2  |
| 35°   | 6172.5 | 6133.8 | 6148.2 | 6072.0 | 5770.3 | 5336.0 | 5160.3 | 5689.6  | 6276.4  | 6275.3  | 6038.8  |
| 37.5° | 6400.2 | 6365.9 | 6378.1 | 6327.2 | 6127.2 | 5716.2 | 5417.8 | 5985.8  | 6785.8  | 6810.1  | 6491.9  |
| 40°   | 6607.9 | 6571.4 | 6620.0 | 6572.5 | 6404.6 | 6120.6 | 5710.6 | 6320.6  | 7375.9  | 7422.3  | 7039.9  |
| 42.5° | 6732.8 | 6704.0 | 6784.7 | 6785.8 | 6645.5 | 6462.0 | 6032.2 | 6689.7  | 8058.8  | 8162.6  | 7714.0  |
| 45°   | 6775.9 | 6765.9 | 6887.5 | 6912.9 | 6858.7 | 6659.8 | 6321.7 | 7091.9  | 8794.7  | 8980.3  | 8482.0  |
| 47.5° | 6729.4 | 6710.7 | 6878.6 | 6972.5 | 7015.6 | 6752.6 | 6561.5 | 7527.2  | 9546.1  | 9817.9  | 9319.6  |
| 50°   | 6495.2 | 6458.7 | 6708.4 | 6906.2 | 7059.8 | 6813.4 | 6803.5 | 8030.0  | 10400.2 | 10697.5 | 10161.6 |
| 52.5° | 6074.2 | 6046.6 | 6330.5 | 6674.2 | 6962.6 | 6843.3 | 7075.3 | 8579.2  | 11211.3 | 11595.9 | 11024.6 |
| 55°   | 5536.0 | 5499.6 | 5812.3 | 6260.9 | 6720.6 | 6833.3 | 7347.1 | 9193.6  | 12168.2 | 12558.3 | 11916.3 |
| 57.5° | 4683.0 | 4610.1 | 5005.6 | 5536.0 | 6326.1 | 6821.2 | 7630.0 | 9804.7  | 13140.6 | 13608.1 | 12867.7 |
| 60°   | 3438.8 | 3330.5 | 3815.6 | 4444.3 | 5554.8 | 6702.9 | 7980.3 | 10489.7 | 14307.5 | 14728.5 | 13906.4 |
| 62.5° | 2002.3 | 1939.3 | 2256.4 | 2843.2 | 4186.8 | 6006.8 | 8177.0 | 11286.5 | 15454.5 | 15896.5 | 14927.4 |
| 65°   | 1554.7 | 1537.1 | 1564.7 | 1610.0 | 2330.4 | 4497.3 | 7570.3 | 12063.3 | 16913.1 | 17222.5 | 15991.5 |
| 67.5° | 1422.1 | 1408.9 | 1421.0 | 1335.9 | 1182.3 | 2505.0 | 5989.1 | 12260.0 | 18475.6 | 18663.4 | 16923.1 |
| 70°   | 1264.1 | 1248.6 | 1288.4 | 1215.5 | 930.4  | 1139.3 | 3869.7 | 11546.1 | 19718.7 | 20071.2 | 17631.4 |
| 72.5° | 1029.9 | 1012.2 | 1105.0 | 1071.8 | 783.4  | 731.5  | 1943.7 | 9850.0  | 19588.3 | 20319.8 | 17124.2 |
| 75°   | 791.2  | 781.2  | 891.7  | 919.4  | 638.7  | 575.7  | 932.6  | 7321.7  | 17238.0 | 17975.0 | 14758.4 |
| 77.5° | 614.4  | 606.6  | 663.0  | 763.6  | 514.9  | 446.4  | 573.5  | 4644.3  | 12990.4 | 13119.6 | 10170.4 |
| 80°   | 460.8  | 438.7  | 490.6  | 591.2  | 401.1  | 326.0  | 389.0  | 2708.4  | 8211.2  | 7443.3  | 4426.6  |
| 82.5° | 288.4  | 277.4  | 320.4  | 394.5  | 282.9  | 224.3  | 253.0  | 1496.2  | 3290.7  | 1938.2  | 854.2   |
| 85°   | 164.6  | 160.2  | 174.6  | 225.4  | 153.6  | 129.3  | 144.8  | 660.8   | 601.1   | 413.3   | 257.5   |
| 87.5° | 66.3   | 64.1   | 79.6   | 100.6  | 56.4   | 47.5   | 50.8   | 159.1   | 132.6   | 122.7   | 85.1    |
| 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):**

|       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 4193.5  | 4193.5 | 4193.5 | 4193.5 | 4193.5 | 4193.5 | 4193.5 | 4193.5 | 4193.5 | 4193.5 | 4193.5 |
| 2.5°  | 4205.6  | 4205.6 | 4190.2 | 4165.8 | 4138.2 | 4120.5 | 4091.8 | 4084.1 | 4054.2 | 4045.4 | 4059.8 |
| 5°    | 4256.5  | 4247.6 | 4200.1 | 4131.6 | 4037.7 | 3951.5 | 3856.4 | 3796.8 | 3712.8 | 3683.0 | 3705.1 |
| 7.5°  | 4320.5  | 4296.2 | 4214.5 | 4064.2 | 3867.5 | 3674.1 | 3473.0 | 3320.5 | 3174.7 | 3122.7 | 3129.4 |
| 10°   | 4379.1  | 4344.9 | 4205.6 | 3942.6 | 3602.3 | 3267.5 | 2947.0 | 2722.7 | 2552.5 | 2482.9 | 2498.4 |
| 12.5° | 4437.7  | 4374.7 | 4147.1 | 3740.4 | 3225.5 | 2771.3 | 2429.9 | 2255.3 | 2150.3 | 2066.3 | 2094.0 |
| 15°   | 4492.9  | 4404.5 | 4056.4 | 3469.7 | 2812.2 | 2351.4 | 2099.5 | 1960.3 | 1876.3 | 1821.0 | 1831.0 |
| 17.5° | 4557.0  | 4429.9 | 3920.5 | 3126.0 | 2418.8 | 2060.8 | 1855.3 | 1771.3 | 1754.7 | 1748.1 | 1752.5 |
| 20°   | 4646.5  | 4453.1 | 3741.5 | 2741.5 | 2129.3 | 1828.8 | 1722.7 | 1715.0 | 1713.9 | 1710.5 | 1721.6 |
| 22.5° | 4742.7  | 4480.8 | 3505.1 | 2392.3 | 1882.9 | 1684.0 | 1665.2 | 1649.8 | 1639.8 | 1638.7 | 1650.9 |
| 25°   | 4856.5  | 4489.6 | 3208.9 | 2106.1 | 1673.0 | 1615.5 | 1593.4 | 1570.2 | 1563.6 | 1563.6 | 1570.2 |
| 27.5° | 4967.0  | 4459.8 | 2864.2 | 1857.5 | 1554.7 | 1552.5 | 1523.8 | 1516.1 | 1515.0 | 1518.3 | 1527.1 |
| 30°   | 5077.5  | 4403.4 | 2521.6 | 1627.7 | 1486.2 | 1486.2 | 1476.3 | 1481.8 | 1486.2 | 1497.3 | 1505.0 |
| 32.5° | 5226.6  | 4343.7 | 2235.4 | 1457.5 | 1426.6 | 1415.5 | 1425.4 | 1436.5 | 1440.9 | 1455.3 | 1467.4 |
| 35°   | 5445.4  | 4301.8 | 2007.8 | 1364.7 | 1364.7 | 1350.3 | 1355.8 | 1353.6 | 1343.7 | 1337.0 | 1352.5 |
| 37.5° | 5734.9  | 4299.5 | 1819.9 | 1321.6 | 1312.7 | 1310.5 | 1311.6 | 1297.3 | 1258.6 | 1212.2 | 1213.3 |
| 40°   | 6083.0  | 4359.2 | 1675.2 | 1291.7 | 1285.1 | 1298.4 | 1291.7 | 1253.1 | 1147.0 | 1066.3 | 1064.1 |
| 42.5° | 6550.4  | 4529.4 | 1582.4 | 1255.3 | 1275.2 | 1291.7 | 1265.2 | 1131.5 | 1059.7 | 1005.5 | 1003.3 |
| 45°   | 7100.7  | 4805.6 | 1534.8 | 1216.6 | 1256.4 | 1276.3 | 1148.1 | 1089.5 | 1032.1 | 966.9  | 962.5  |
| 47.5° | 7723.9  | 5153.7 | 1523.8 | 1180.1 | 1214.4 | 1226.5 | 1098.4 | 1071.8 | 1006.7 | 935.9  | 930.4  |
| 50°   | 8402.4  | 5565.9 | 1553.6 | 1137.0 | 1153.6 | 1111.6 | 1081.8 | 1057.5 | 990.1  | 920.5  | 912.7  |
| 52.5° | 9104.1  | 6020.0 | 1613.3 | 1078.5 | 1092.8 | 1046.4 | 1075.2 | 1054.2 | 980.1  | 886.2  | 879.6  |
| 55°   | 9793.6  | 6477.5 | 1670.8 | 1010.0 | 1031.0 | 987.9  | 1056.4 | 1040.9 | 934.8  | 828.7  | 823.2  |
| 57.5° | 10494.2 | 6932.8 | 1727.1 | 949.2  | 971.3  | 931.5  | 1026.5 | 1005.5 | 884.0  | 775.7  | 773.5  |
| 60°   | 11222.4 | 7374.8 | 1753.6 | 890.6  | 906.1  | 879.6  | 981.2  | 944.8  | 826.5  | 721.6  | 718.2  |
| 62.5° | 11904.1 | 7742.7 | 1710.5 | 832.1  | 842.0  | 831.0  | 921.6  | 872.9  | 769.1  | 660.8  | 659.7  |
| 65°   | 12588.1 | 7961.5 | 1577.9 | 774.6  | 776.8  | 771.3  | 837.6  | 795.6  | 701.7  | 607.7  | 601.1  |
| 67.5° | 13208.0 | 8084.2 | 1366.9 | 712.7  | 707.2  | 705.0  | 759.1  | 711.6  | 636.5  | 554.7  | 548.1  |
| 70°   | 13339.5 | 7772.6 | 1044.2 | 639.8  | 639.8  | 634.3  | 672.9  | 624.3  | 564.7  | 498.4  | 496.1  |
| 72.5° | 12183.7 | 6538.3 | 741.5  | 556.9  | 565.8  | 554.7  | 586.8  | 545.9  | 491.7  | 447.5  | 434.3  |
| 75°   | 9824.5  | 4794.6 | 539.2  | 471.8  | 487.3  | 468.5  | 498.4  | 469.6  | 423.2  | 422.1  | 380.1  |
| 77.5° | 6750.4  | 2964.7 | 391.2  | 389.0  | 400.0  | 375.7  | 410.0  | 394.5  | 352.5  | 333.7  | 312.7  |
| 80°   | 2880.7  | 1182.3 | 285.1  | 300.6  | 300.6  | 278.5  | 318.2  | 322.7  | 286.2  | 277.4  | 277.4  |
| 82.5° | 573.5   | 335.9  | 200.0  | 206.6  | 194.5  | 187.8  | 225.4  | 249.7  | 344.8  | 383.4  | 384.5  |
| 85°   | 172.4   | 123.8  | 120.4  | 112.7  | 99.4   | 100.6  | 132.6  | 250.8  | 309.4  | 176.8  | 152.5  |
| 87.5° | 47.5    | 30.9   | 32.0   | 25.4   | 21.0   | 27.6   | 45.3   | 190.1  | 103.9  | 44.2   | 37.6   |
| 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)