

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: P942464

Luminaire Tested: **GALN-SB6C-727-U-T2-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P942464  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB6C-727-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 30760 lumens  
Efficiency: N/A  
Efficacy: 102.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 300.9  
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

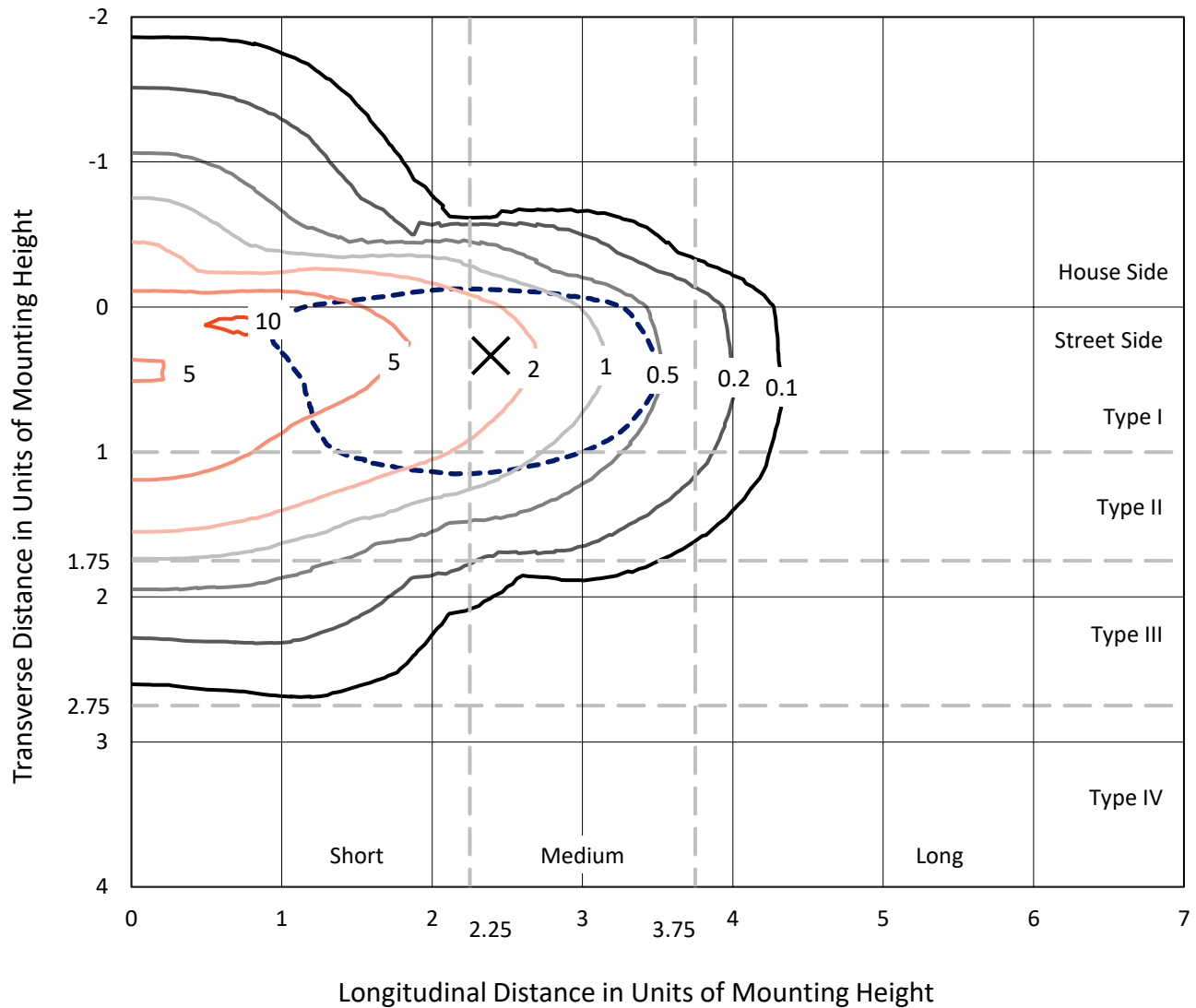


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

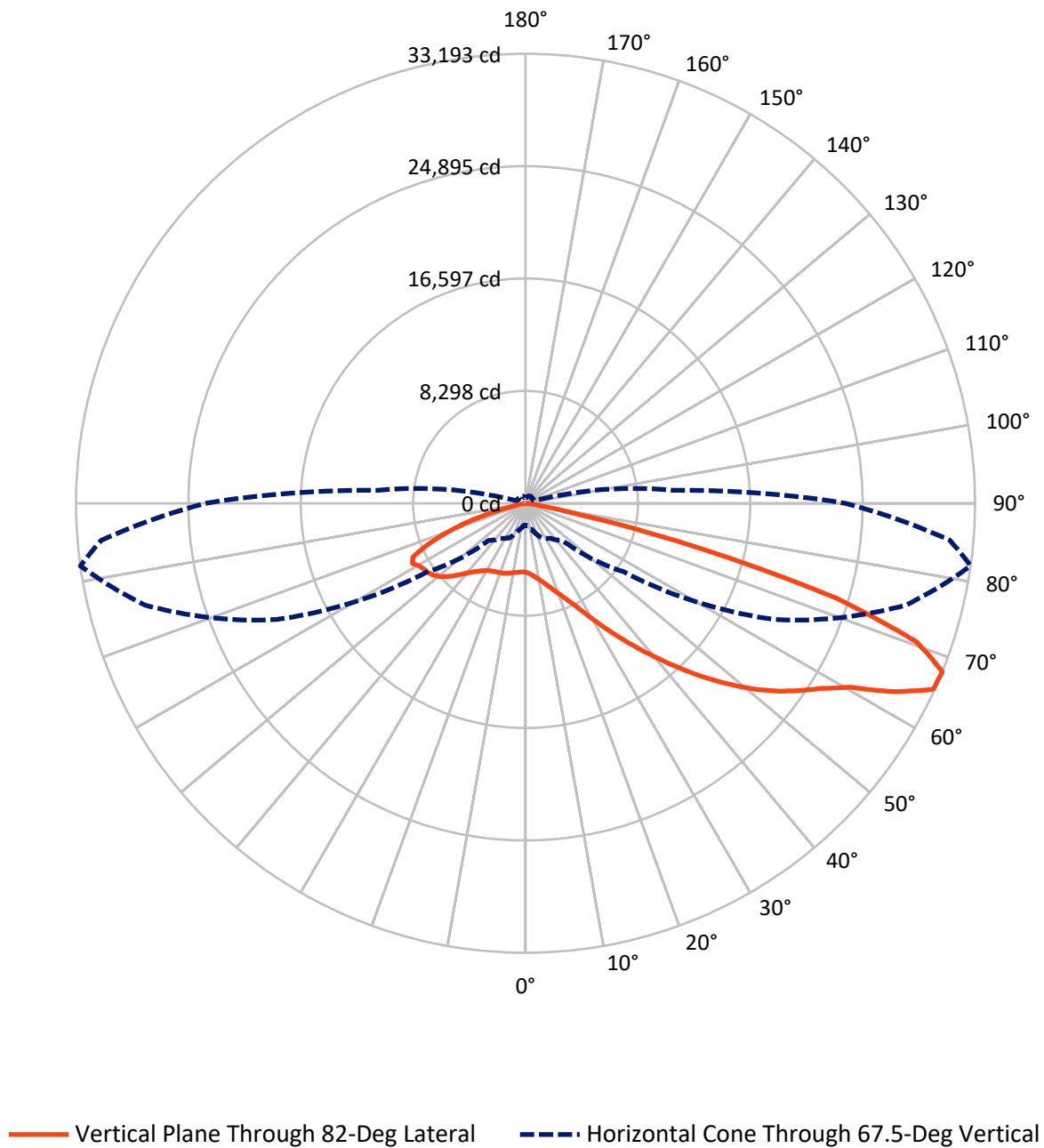


Based on 25 foot mounting height. Maximum calculated value = 10.8 fc  
 Type II - Medium - N/A

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## Luminous Intensity Polar Plot



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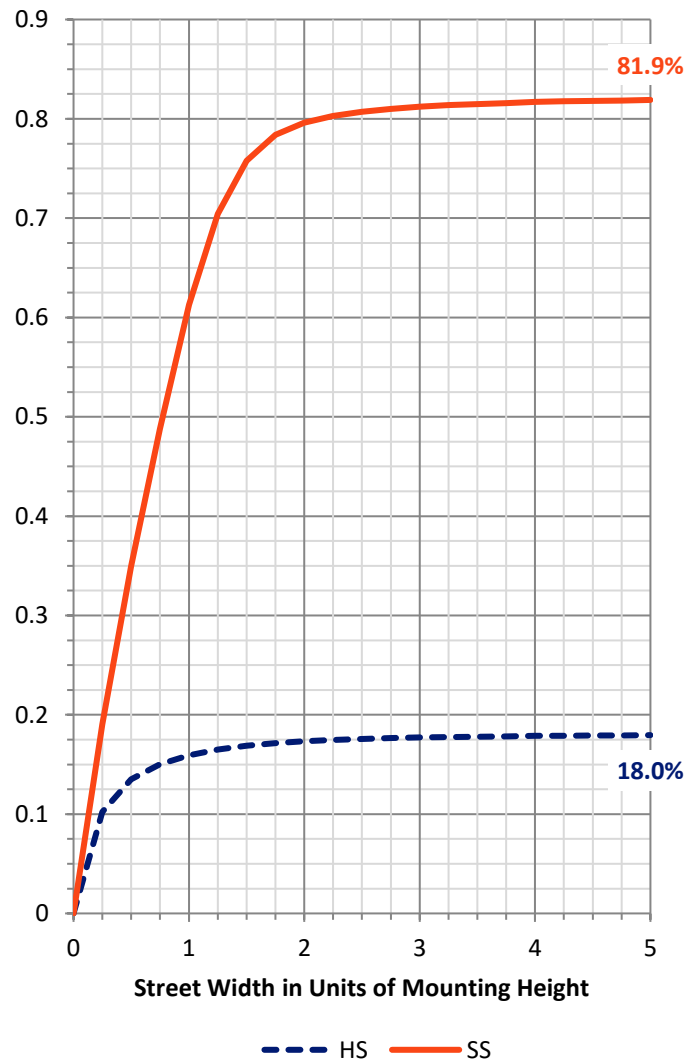
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5571.9   | 0.0    | 5571.9  |
|                    | % Fixture | 18.1     | 0.0    | 18.1    |
| <b>Street Side</b> | Lumens    | 25188.1  | 0.0    | 25188.1 |
|                    | % Fixture | 81.9     | 0.0    | 81.9    |
| <b>Total</b>       | Lumens    | 30760.0  | 0.0    | 30760.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 454.0   | 1.5       |
| 10°-20°   | 1179.8  | 3.8       |
| 20°-30°   | 1889.6  | 6.1       |
| 30°-40°   | 3341.4  | 10.9      |
| 40°-50°   | 5854.5  | 19.0      |
| 50°-60°   | 7808.3  | 25.4      |
| 60°-70°   | 7269.1  | 23.6      |
| 70°-80°   | 2789.9  | 9.1       |
| 80°-90°   | 173.3   | 0.6       |
| 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°    | 30760.0 | 100.0     |
| 0°-180°   | 30760.0 | 100.0     |

**Coefficient of Utilization**



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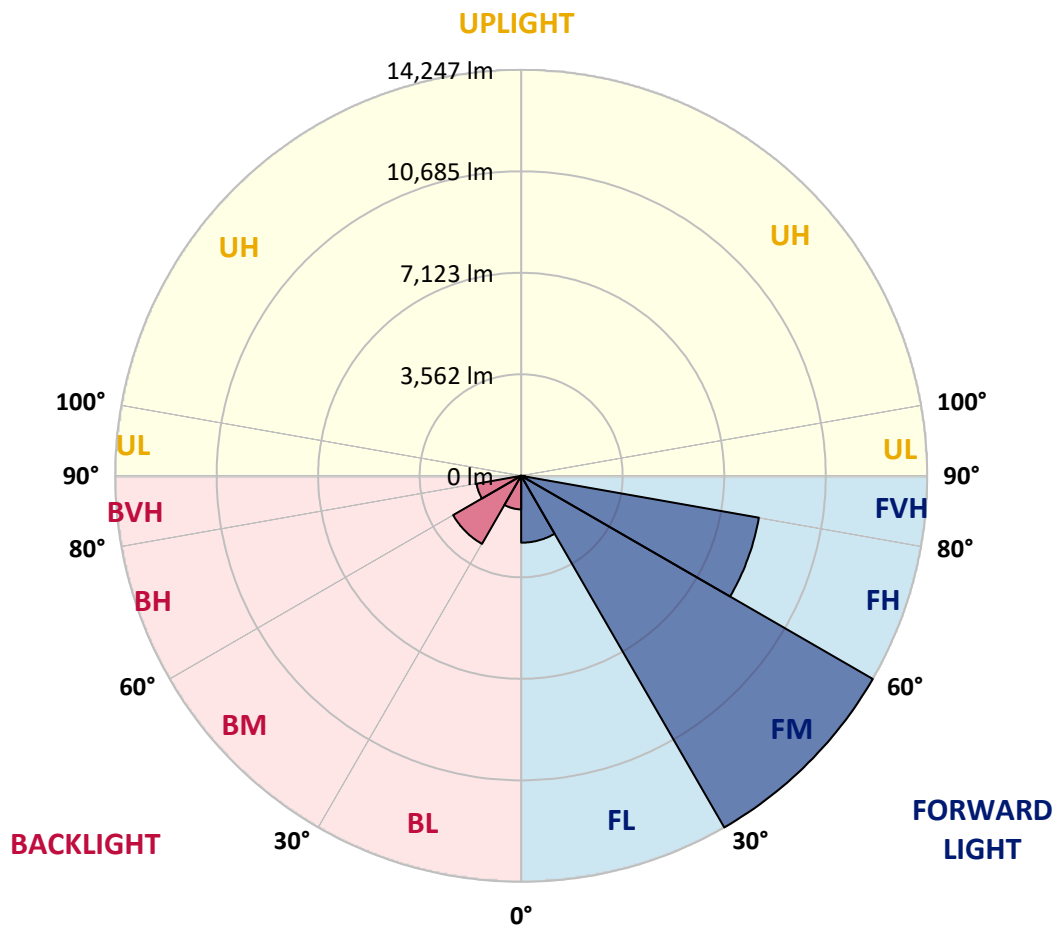
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2346.6  | 7.6       |                         |      |          |
| FM   | (30°-60°)   | 14246.8 | 46.3      |                         |      |          |
| FH   | (60°-80°)   | 8468.7  | 27.5      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 126.0   | 0.4       |                         |      | G2/225   |
| BL   | (0°-30°)    | 1176.8  | 3.8       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 2757.5  | 9.0       | B3/5000                 |      |          |
| BH   | (60°-80°)   | 1590.3  | 5.2       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 47.3    | 0.2       |                         |      | G1/100   |
| 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°     | 82°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5095.9  | 5095.9  | 5095.9  | 5095.9  | 5095.9  | 5095.9  | 5095.9  | 5095.9  | 5095.9  | 5095.9  | 5095.9  |
| 2.5°  | 5386.0  | 5417.0  | 5399.3  | 5390.4  | 5374.9  | 5352.8  | 5335.1  | 5279.7  | 5222.1  | 5184.5  | 5171.2  |
| 5°    | 5494.5  | 5525.5  | 5523.3  | 5532.2  | 5543.2  | 5549.9  | 5545.5  | 5483.5  | 5401.5  | 5337.3  | 5299.6  |
| 7.5°  | 5401.5  | 5436.9  | 5465.7  | 5510.0  | 5587.5  | 5669.5  | 5709.3  | 5696.1  | 5611.9  | 5523.3  | 5476.8  |
| 10°   | 5138.0  | 5175.6  | 5244.3  | 5348.4  | 5512.2  | 5689.4  | 5837.8  | 5906.4  | 5853.3  | 5755.9  | 5691.6  |
| 12.5° | 4655.2  | 4692.8  | 4827.9  | 5053.8  | 5328.4  | 5636.3  | 5919.7  | 6103.6  | 6116.8  | 6019.4  | 5944.1  |
| 15°   | 4112.6  | 4150.2  | 4294.2  | 4577.7  | 4996.2  | 5490.1  | 5964.0  | 6311.7  | 6429.1  | 6344.9  | 6254.1  |
| 17.5° | 3776.0  | 3809.2  | 3917.7  | 4145.8  | 4582.1  | 5197.8  | 5948.5  | 6533.2  | 6801.2  | 6734.7  | 6626.2  |
| 20°   | 3674.1  | 3702.9  | 3753.8  | 3913.3  | 4276.5  | 4894.4  | 5846.7  | 6741.4  | 7202.0  | 7164.4  | 7042.6  |
| 22.5° | 3782.6  | 3809.2  | 3824.7  | 3895.6  | 4123.7  | 4695.0  | 5718.2  | 6954.0  | 7667.1  | 7671.5  | 7523.1  |
| 25°   | 4032.9  | 4059.4  | 4041.7  | 4086.0  | 4185.7  | 4633.0  | 5669.5  | 7204.2  | 8251.8  | 8300.5  | 8132.2  |
| 27.5° | 4444.8  | 4447.0  | 4404.9  | 4402.7  | 4418.2  | 4726.0  | 5720.4  | 7472.2  | 8989.2  | 9080.0  | 8871.9  |
| 30°   | 5270.8  | 5237.6  | 5076.0  | 4901.0  | 4821.3  | 5005.1  | 5862.2  | 7788.9  | 9859.6  | 10021.3 | 9759.9  |
| 32.5° | 6544.3  | 6495.5  | 6198.8  | 5780.2  | 5359.4  | 5454.7  | 6116.8  | 8149.9  | 10807.5 | 11099.8 | 10780.9 |
| 35°   | 7926.2  | 7912.9  | 7602.9  | 6980.6  | 6245.3  | 6094.7  | 6531.0  | 8623.8  | 11841.7 | 12306.8 | 11928.1 |
| 37.5° | 9210.7  | 9204.1  | 9026.9  | 8293.8  | 7399.1  | 6987.2  | 7195.4  | 9243.9  | 12949.0 | 13622.3 | 13174.9 |
| 40°   | 10384.5 | 10404.4 | 10227.2 | 9571.7  | 8670.3  | 8132.2  | 8098.9  | 10010.2 | 14180.4 | 15055.1 | 14523.6 |
| 42.5° | 11398.8 | 11420.9 | 11241.5 | 10756.5 | 9926.0  | 9398.9  | 9208.5  | 10949.2 | 15382.9 | 16594.3 | 15965.4 |
| 45°   | 12087.5 | 12224.8 | 12198.2 | 11810.7 | 11214.9 | 10667.9 | 10541.7 | 12127.4 | 16753.8 | 18226.5 | 17489.0 |
| 47.5° | 12282.4 | 12408.6 | 12608.0 | 12661.1 | 12297.9 | 11759.7 | 11910.3 | 13547.0 | 18140.1 | 19860.9 | 19021.6 |
| 50°   | 11801.8 | 11919.2 | 12333.3 | 12884.8 | 13137.3 | 12971.2 | 13241.3 | 15068.4 | 19559.7 | 21490.9 | 20525.3 |
| 52.5° | 10854.0 | 10973.6 | 11496.2 | 12368.8 | 13398.6 | 13921.2 | 14576.8 | 16567.7 | 20935.0 | 23034.5 | 21949.3 |
| 55°   | 9483.1  | 9609.3  | 10280.4 | 11268.1 | 12900.3 | 14313.2 | 15690.7 | 18064.8 | 22195.1 | 24423.1 | 23233.8 |
| 57.5° | 7618.4  | 7711.4  | 8409.0  | 9790.9  | 11646.8 | 13923.5 | 16512.4 | 19699.2 | 23382.2 | 25787.3 | 24507.2 |
| 60°   | 4965.2  | 5047.2  | 5857.7  | 7399.1  | 9569.5  | 12621.2 | 16676.3 | 21521.9 | 24959.0 | 27561.2 | 26223.6 |
| 62.5° | 3302.0  | 3357.4  | 3838.0  | 4969.7  | 6739.2  | 10120.9 | 15717.3 | 22976.9 | 27271.1 | 30648.4 | 29166.8 |
| 65°   | 2265.6  | 2320.9  | 2801.5  | 3589.9  | 4354.0  | 6694.9  | 12960.1 | 22784.2 | 29366.2 | 33100.0 | 31348.3 |
| 67.5° | 1616.7  | 1663.2  | 2070.7  | 2814.8  | 3151.4  | 3888.9  | 8785.5  | 20321.6 | 29065.0 | 33193.1 | 31465.6 |
| 70°   | 1158.3  | 1184.8  | 1521.5  | 2192.5  | 2504.8  | 2336.4  | 4885.5  | 15542.4 | 25448.5 | 30650.6 | 29069.4 |
| 72.5° | 810.6   | 819.4   | 1056.4  | 1669.8  | 2017.5  | 1705.3  | 2325.4  | 10362.3 | 19247.5 | 24057.7 | 22536.2 |
| 75°   | 549.2   | 560.3   | 710.9   | 1224.7  | 1618.9  | 1302.2  | 1231.3  | 5556.5  | 11299.1 | 13316.6 | 11936.9 |
| 77.5° | 336.6   | 341.1   | 458.4   | 837.1   | 1211.4  | 992.2   | 792.8   | 2354.2  | 4371.7  | 4292.0  | 3658.6  |
| 80°   | 190.5   | 190.5   | 292.3   | 520.4   | 826.1   | 640.0   | 555.9   | 1001.0  | 1384.2  | 1215.8  | 1071.9  |
| 82.5° | 106.3   | 108.5   | 212.6   | 323.3   | 547.0   | 378.7   | 305.6   | 462.9   | 598.0   | 529.3   | 460.6   |
| 85°   | 44.3    | 48.7    | 130.7   | 152.8   | 261.3   | 188.2   | 124.0   | 194.9   | 221.5   | 197.1   | 144.0   |
| 87.5° | 4.4     | 6.6     | 39.9    | 28.8    | 31.0    | 37.6    | 17.7    | 37.6    | 31.0    | 31.0    | 22.1    |
| 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°    | 5095.9  | 5095.9  | 5095.9 | 5095.9 | 5095.9 | 5095.9 | 5095.9 | 5095.9 | 5095.9 | 5095.9 | 5095.9 |
| 2.5°  | 5129.1  | 5095.9  | 5011.7 | 4914.3 | 4785.8 | 4723.8 | 4639.7 | 4582.1 | 4533.4 | 4537.8 | 4493.5 |
| 5°    | 5228.8  | 5144.6  | 4956.4 | 4721.6 | 4429.3 | 4221.1 | 3999.6 | 3846.8 | 3722.8 | 3696.2 | 3636.4 |
| 7.5°  | 5366.1  | 5233.2  | 4903.2 | 4480.2 | 3986.4 | 3612.1 | 3277.7 | 3062.8 | 2910.0 | 2861.3 | 2812.6 |
| 10°   | 5543.2  | 5350.6  | 4834.6 | 4176.8 | 3465.9 | 2989.8 | 2631.0 | 2462.7 | 2358.6 | 2323.2 | 2296.6 |
| 12.5° | 5749.2  | 5485.7  | 4743.8 | 3807.0 | 2930.0 | 2471.5 | 2243.4 | 2159.3 | 2126.1 | 2115.0 | 2108.3 |
| 15°   | 6008.3  | 5654.0  | 4606.5 | 3368.5 | 2476.0 | 2154.8 | 2057.4 | 2046.3 | 2050.8 | 2046.3 | 2044.1 |
| 17.5° | 6316.2  | 5837.8  | 4382.8 | 2916.7 | 2170.3 | 1993.2 | 1957.7 | 1966.6 | 1977.7 | 1975.5 | 1971.0 |
| 20°   | 6652.8  | 6019.4  | 4097.1 | 2515.8 | 1962.2 | 1878.0 | 1858.1 | 1866.9 | 1875.8 | 1871.4 | 1869.2 |
| 22.5° | 7035.9  | 6214.3  | 3780.4 | 2203.6 | 1822.7 | 1771.7 | 1749.6 | 1751.8 | 1751.8 | 1742.9 | 1738.5 |
| 25°   | 7494.3  | 6429.1  | 3448.2 | 1982.1 | 1716.3 | 1676.5 | 1649.9 | 1641.0 | 1627.8 | 1601.2 | 1596.8 |
| 27.5° | 8041.4  | 6657.2  | 3129.3 | 1827.1 | 1632.2 | 1594.5 | 1563.5 | 1541.4 | 1508.2 | 1463.9 | 1459.4 |
| 30°   | 8657.0  | 6934.0  | 2859.1 | 1729.6 | 1565.8 | 1528.1 | 1492.7 | 1459.4 | 1410.7 | 1355.4 | 1350.9 |
| 32.5° | 9381.2  | 7230.8  | 2662.0 | 1665.4 | 1506.0 | 1466.1 | 1424.0 | 1384.2 | 1331.0 | 1275.6 | 1277.8 |
| 35°   | 10244.9 | 7589.6  | 2546.8 | 1621.1 | 1459.4 | 1406.3 | 1359.8 | 1315.5 | 1275.6 | 1226.9 | 1222.5 |
| 37.5° | 11181.7 | 7970.5  | 2511.4 | 1599.0 | 1428.4 | 1346.5 | 1293.4 | 1262.3 | 1257.9 | 1229.1 | 1226.9 |
| 40°   | 12207.1 | 8422.3  | 2538.0 | 1585.7 | 1395.2 | 1288.9 | 1231.3 | 1224.7 | 1235.8 | 1184.8 | 1187.0 |
| 42.5° | 13292.3 | 8958.2  | 2582.3 | 1570.2 | 1348.7 | 1231.3 | 1176.0 | 1176.0 | 1167.1 | 1096.2 | 1096.2 |
| 45°   | 14466.0 | 9576.1  | 2626.6 | 1532.5 | 1293.4 | 1173.8 | 1131.7 | 1116.2 | 1078.5 | 1009.9 | 1007.7 |
| 47.5° | 15648.7 | 10205.1 | 2659.8 | 1463.9 | 1226.9 | 1125.0 | 1087.4 | 1052.0 | 996.6  | 934.6  | 932.4  |
| 50°   | 16771.5 | 10769.8 | 2624.4 | 1362.0 | 1151.6 | 1078.5 | 1038.7 | 989.9  | 930.1  | 888.1  | 881.4  |
| 52.5° | 17774.7 | 11259.2 | 2473.8 | 1242.4 | 1071.9 | 1029.8 | 994.4  | 943.4  | 894.7  | 850.4  | 846.0  |
| 55°   | 18647.3 | 11655.7 | 2208.0 | 1129.5 | 1001.0 | 987.7  | 952.3  | 888.1  | 821.6  | 784.0  | 779.6  |
| 57.5° | 19484.4 | 11956.9 | 1875.8 | 1036.5 | 936.8  | 941.2  | 888.1  | 830.5  | 768.5  | 728.6  | 724.2  |
| 60°   | 20598.4 | 12359.9 | 1539.2 | 950.1  | 868.1  | 881.4  | 823.8  | 781.8  | 704.3  | 653.3  | 646.7  |
| 62.5° | 22379.0 | 12986.7 | 1222.5 | 843.8  | 788.4  | 792.8  | 768.5  | 717.5  | 624.5  | 564.7  | 560.3  |
| 65°   | 23791.9 | 12756.3 | 963.4  | 728.6  | 697.6  | 704.3  | 704.3  | 648.9  | 549.2  | 480.6  | 473.9  |
| 67.5° | 23632.4 | 10922.6 | 768.5  | 615.7  | 611.2  | 615.7  | 631.2  | 584.7  | 487.2  | 431.9  | 423.0  |
| 70°   | 21769.9 | 8688.0  | 615.7  | 511.6  | 531.5  | 520.4  | 564.7  | 533.7  | 438.5  | 383.1  | 376.5  |
| 72.5° | 17763.6 | 6258.6  | 469.5  | 423.0  | 407.5  | 425.2  | 509.4  | 480.6  | 365.4  | 303.4  | 296.8  |
| 75°   | 10380.0 | 3339.7  | 349.9  | 334.4  | 294.5  | 354.3  | 451.8  | 409.7  | 279.0  | 223.7  | 217.0  |
| 77.5° | 3379.5  | 1164.9  | 256.9  | 245.8  | 219.2  | 285.7  | 385.3  | 345.5  | 228.1  | 177.2  | 170.5  |
| 80°   | 905.8   | 352.1   | 175.0  | 161.7  | 141.7  | 212.6  | 305.6  | 274.6  | 163.9  | 115.2  | 112.9  |
| 82.5° | 363.2   | 148.4   | 101.9  | 90.8   | 77.5   | 146.2  | 241.4  | 221.5  | 121.8  | 73.1   | 73.1   |
| 85°   | 117.4   | 48.7    | 37.6   | 28.8   | 35.4   | 90.8   | 144.0  | 150.6  | 86.4   | 37.6   | 28.8   |
| 87.5° | 15.5    | 6.6     | 6.6    | 8.9    | 6.6    | 15.5   | 44.3   | 42.1   | 24.4   | 4.4    | 0.0    |
| 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)