

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: P941954

Luminaire Tested: **GALN-SB5D-727-U-T2-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P941954  
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-SB5D-727-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 2700K, 900mA 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: 34816 lumens  
Efficiency: N/A  
Efficacy: 95.4 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): 364.9  
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



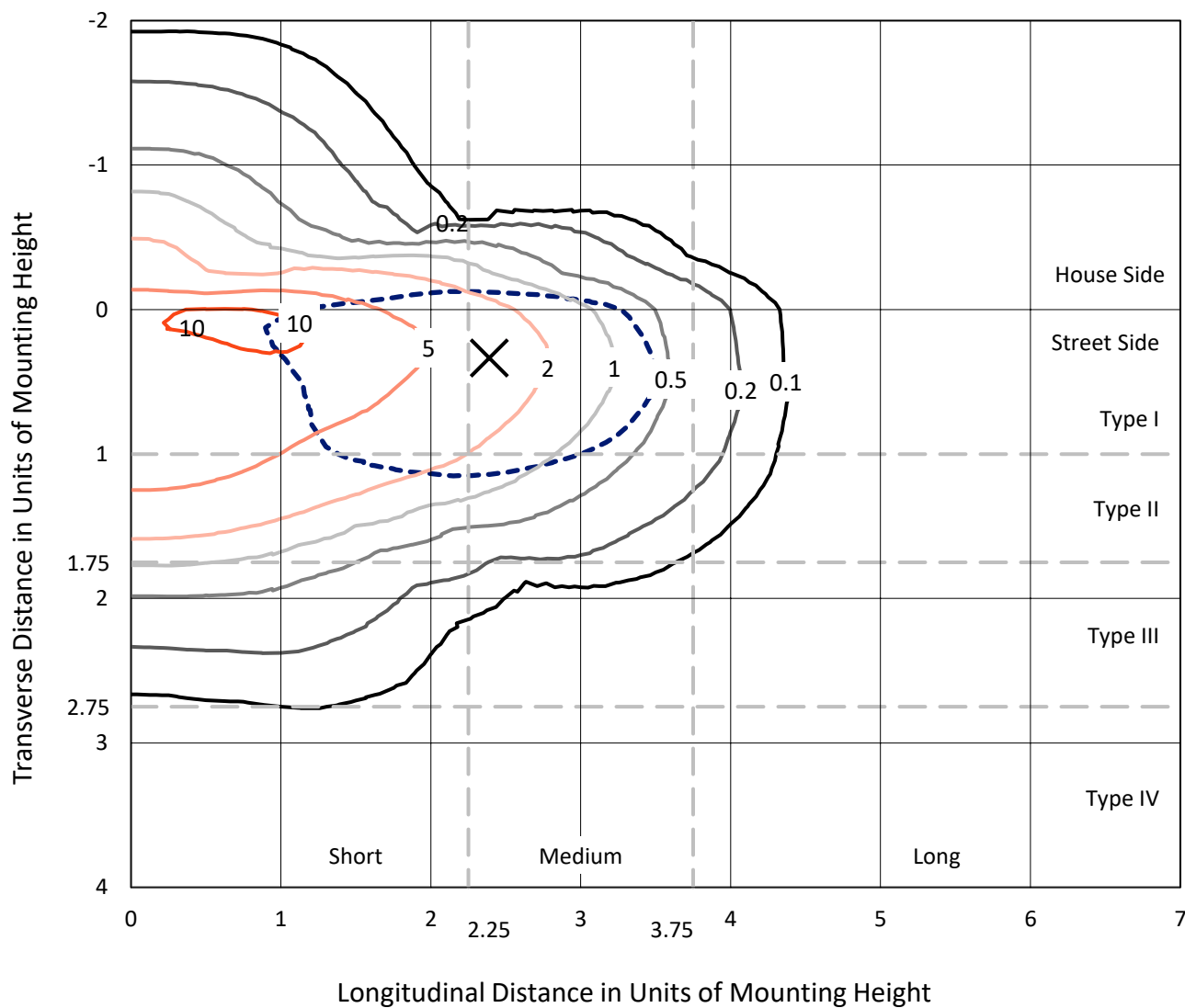
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

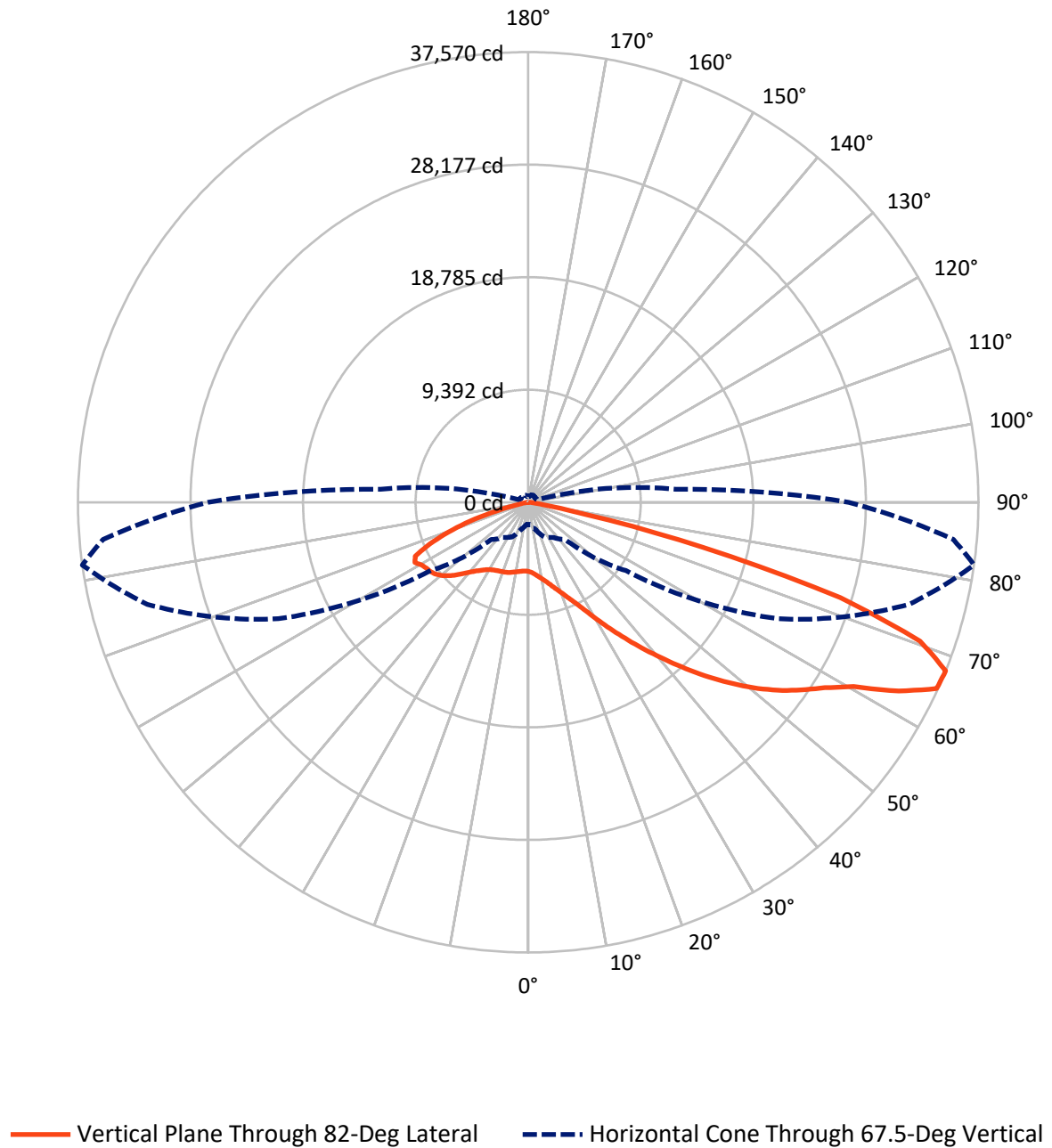


Based on 25 foot mounting height. Maximum calculated value = 12.2 fc  
 Type II - Medium - N/A

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## Luminous Intensity Polar Plot



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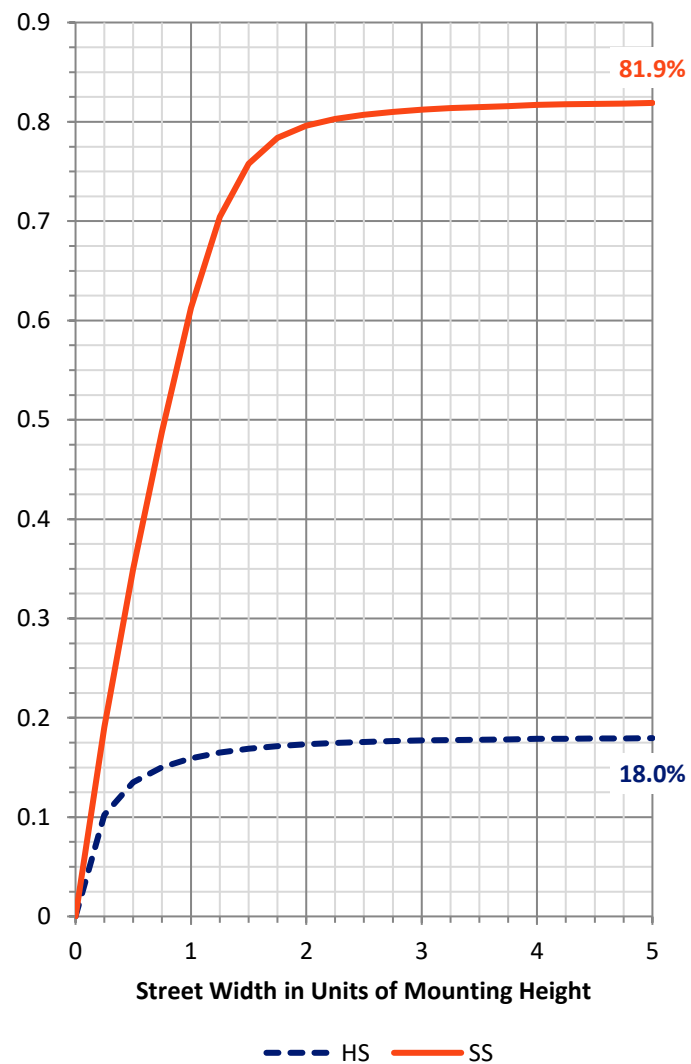
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6306.6   | 0.0    | 6306.6  |
|                    | % Fixture | 18.1     | 0.0    | 18.1    |
| <b>Street Side</b> | Lumens    | 28509.4  | 0.0    | 28509.4 |
|                    | % Fixture | 81.9     | 0.0    | 81.9    |
| <b>Total</b>       | Lumens    | 34816.0  | 0.0    | 34816.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 513.9   | 1.5       |
| 10°-20°   | 1335.3  | 3.8       |
| 20°-30°   | 2138.8  | 6.1       |
| 30°-40°   | 3782.0  | 10.9      |
| 40°-50°   | 6626.5  | 19.0      |
| 50°-60°   | 8837.9  | 25.4      |
| 60°-70°   | 8227.6  | 23.6      |
| 70°-80°   | 3157.8  | 9.1       |
| 80°-90°   | 196.1   | 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°    | 34816.0 | 100.0     |
| 0°-180°   | 34816.0 | 100.0     |

**Coefficient of Utilization**



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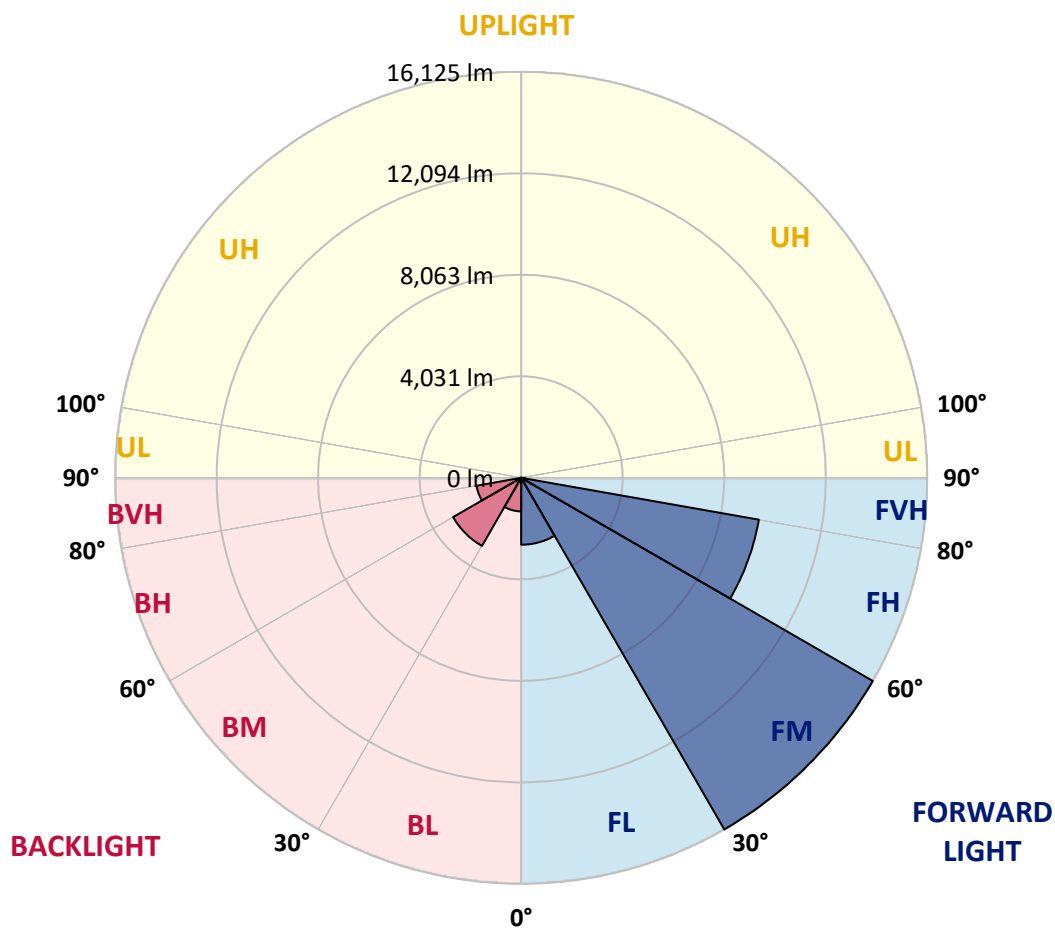
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2656.1  | 7.6       |                         |      |          |
| FM   | (30°-60°)   | 16125.4 | 46.3      |                         |      |          |
| FH   | (60°-80°)   | 9585.4  | 27.5      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 142.6   | 0.4       |                         |      | G2/225   |
| BL   | (0°-30°)    | 1331.9  | 3.8       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 3121.1  | 9.0       | B3/5000                 |      |          |
| BH   | (60°-80°)   | 1800.0  | 5.2       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 53.5    | 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°    | 5767.8  | 5767.8  | 5767.8  | 5767.8  | 5767.8  | 5767.8  | 5767.8  | 5767.8  | 5767.8  | 5767.8  | 5767.8  |
| 2.5°  | 6096.2  | 6131.3  | 6111.2  | 6101.2  | 6083.7  | 6058.6  | 6038.6  | 5975.9  | 5910.7  | 5868.1  | 5853.1  |
| 5°    | 6219.0  | 6254.1  | 6251.6  | 6261.6  | 6274.2  | 6281.7  | 6276.7  | 6206.5  | 6113.8  | 6041.1  | 5998.4  |
| 7.5°  | 6113.8  | 6153.9  | 6186.4  | 6236.6  | 6324.3  | 6417.1  | 6462.2  | 6447.1  | 6351.9  | 6251.6  | 6199.0  |
| 10°   | 5815.5  | 5858.1  | 5935.8  | 6053.6  | 6239.1  | 6439.6  | 6607.6  | 6685.3  | 6625.1  | 6514.8  | 6442.1  |
| 12.5° | 5269.0  | 5311.6  | 5464.5  | 5720.2  | 6031.0  | 6379.5  | 6700.3  | 6908.4  | 6923.4  | 6813.1  | 6727.9  |
| 15°   | 4654.9  | 4697.5  | 4860.4  | 5181.3  | 5655.0  | 6214.0  | 6750.4  | 7144.0  | 7276.8  | 7181.6  | 7078.8  |
| 17.5° | 4273.9  | 4311.5  | 4434.3  | 4692.5  | 5186.3  | 5883.1  | 6732.9  | 7394.7  | 7698.0  | 7622.8  | 7499.9  |
| 20°   | 4158.6  | 4191.1  | 4248.8  | 4429.3  | 4840.4  | 5539.7  | 6617.6  | 7630.3  | 8151.7  | 8109.1  | 7971.2  |
| 22.5° | 4281.4  | 4311.5  | 4329.0  | 4409.2  | 4667.4  | 5314.1  | 6472.2  | 7870.9  | 8678.1  | 8683.1  | 8515.1  |
| 25°   | 4564.6  | 4594.7  | 4574.7  | 4624.8  | 4737.6  | 5243.9  | 6417.1  | 8154.2  | 9339.8  | 9395.0  | 9204.5  |
| 27.5° | 5030.9  | 5033.4  | 4985.8  | 4983.2  | 5000.8  | 5349.2  | 6474.7  | 8457.5  | 10174.5 | 10277.3 | 10041.7 |
| 30°   | 5965.9  | 5928.3  | 5745.3  | 5547.2  | 5457.0  | 5665.1  | 6635.1  | 8815.9  | 11159.7 | 11342.7 | 11046.9 |
| 32.5° | 7407.2  | 7352.0  | 7016.2  | 6542.4  | 6066.1  | 6173.9  | 6923.4  | 9224.5  | 12232.5 | 12563.4 | 12202.4 |
| 35°   | 8971.3  | 8956.3  | 8605.4  | 7901.0  | 7068.8  | 6898.3  | 7392.2  | 9760.9  | 13403.1 | 13929.5 | 13500.9 |
| 37.5° | 10425.2 | 10417.7 | 10217.2 | 9387.5  | 8374.8  | 7908.5  | 8144.2  | 10462.8 | 14656.5 | 15418.5 | 14912.1 |
| 40°   | 11753.7 | 11776.3 | 11575.8 | 10833.8 | 9813.6  | 9204.5  | 9166.9  | 11330.1 | 16050.2 | 17040.3 | 16438.7 |
| 42.5° | 12901.8 | 12926.9 | 12723.8 | 12174.9 | 11234.9 | 10638.3 | 10422.7 | 12392.9 | 17411.3 | 18782.4 | 18070.5 |
| 45°   | 13681.4 | 13836.8 | 13806.7 | 13368.0 | 12693.7 | 12074.6 | 11931.7 | 13726.5 | 18962.9 | 20629.8 | 19795.1 |
| 47.5° | 13902.0 | 14044.8 | 14270.4 | 14330.6 | 13919.5 | 13310.4 | 13480.8 | 15333.3 | 20532.1 | 22479.8 | 21529.7 |
| 50°   | 13358.0 | 13490.9 | 13959.6 | 14583.8 | 14869.5 | 14681.5 | 14987.3 | 17055.3 | 22138.9 | 24324.7 | 23231.8 |
| 52.5° | 12285.2 | 12420.5 | 13012.1 | 13999.7 | 15165.3 | 15756.9 | 16498.9 | 18752.4 | 23695.5 | 26071.8 | 24843.5 |
| 55°   | 10733.5 | 10876.4 | 11635.9 | 12753.9 | 14601.3 | 16200.6 | 17759.7 | 20446.9 | 25121.8 | 27643.5 | 26297.4 |
| 57.5° | 8622.9  | 8728.2  | 9517.8  | 11082.0 | 13182.5 | 15759.4 | 18689.7 | 22296.8 | 26465.4 | 29187.6 | 27738.7 |
| 60°   | 5619.9  | 5712.7  | 6630.1  | 8374.8  | 10831.3 | 14285.5 | 18875.2 | 24359.8 | 28250.1 | 31195.4 | 29681.4 |
| 62.5° | 3737.4  | 3800.1  | 4344.0  | 5625.0  | 7627.8  | 11455.5 | 17789.8 | 26006.6 | 30867.1 | 34689.7 | 33012.8 |
| 65°   | 2564.3  | 2627.0  | 3170.9  | 4063.3  | 4928.1  | 7577.6  | 14669.0 | 25788.6 | 33238.4 | 37464.6 | 35481.8 |
| 67.5° | 1829.9  | 1882.5  | 2343.7  | 3186.0  | 3567.0  | 4401.7  | 9943.9  | 23001.1 | 32897.5 | 37569.9 | 35614.7 |
| 70°   | 1311.0  | 1341.1  | 1722.1  | 2481.6  | 2835.0  | 2644.5  | 5529.7  | 17591.8 | 28804.1 | 34692.2 | 32902.5 |
| 72.5° | 917.4   | 927.5   | 1195.7  | 1890.0  | 2283.6  | 1930.1  | 2632.0  | 11728.7 | 21785.4 | 27229.9 | 25507.8 |
| 75°   | 621.7   | 634.2   | 804.6   | 1386.2  | 1832.4  | 1473.9  | 1393.7  | 6289.2  | 12789.0 | 15072.6 | 13510.9 |
| 77.5° | 381.0   | 386.0   | 518.9   | 947.5   | 1371.1  | 1123.0  | 897.4   | 2664.6  | 4948.2  | 4857.9  | 4141.0  |
| 80°   | 215.6   | 215.6   | 330.9   | 589.1   | 935.0   | 724.4   | 629.2   | 1133.0  | 1566.7  | 1376.2  | 1213.2  |
| 82.5° | 120.3   | 122.8   | 240.6   | 366.0   | 619.1   | 428.6   | 345.9   | 523.9   | 676.8   | 599.1   | 521.4   |
| 85°   | 50.1    | 55.1    | 147.9   | 173.0   | 295.8   | 213.1   | 140.4   | 220.6   | 250.7   | 223.1   | 162.9   |
| 87.5° | 5.0     | 7.5     | 45.1    | 32.6    | 35.1    | 42.6    | 20.1    | 42.6    | 35.1    | 35.1    | 25.1    |
| 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°    | 5767.8  | 5767.8  | 5767.8 | 5767.8 | 5767.8 | 5767.8 | 5767.8 | 5767.8 | 5767.8 | 5767.8 | 5767.8 |
| 2.5°  | 5805.4  | 5767.8  | 5672.6 | 5562.3 | 5416.9 | 5346.7 | 5251.5 | 5186.3 | 5131.1 | 5136.2 | 5086.0 |
| 5°    | 5918.2  | 5823.0  | 5609.9 | 5344.2 | 5013.3 | 4777.7 | 4527.0 | 4354.1 | 4213.7 | 4183.6 | 4115.9 |
| 7.5°  | 6073.6  | 5923.2  | 5549.8 | 5071.0 | 4512.0 | 4088.4 | 3709.9 | 3466.7 | 3293.8 | 3238.6 | 3183.5 |
| 10°   | 6274.2  | 6056.1  | 5472.0 | 4727.6 | 3922.9 | 3384.0 | 2977.9 | 2787.4 | 2669.6 | 2629.5 | 2599.4 |
| 12.5° | 6507.3  | 6209.0  | 5369.3 | 4309.0 | 3316.3 | 2797.4 | 2539.3 | 2444.0 | 2406.4 | 2393.9 | 2386.3 |
| 15°   | 6800.6  | 6399.5  | 5213.9 | 3812.6 | 2802.4 | 2439.0 | 2328.7 | 2316.2 | 2321.2 | 2316.2 | 2313.7 |
| 17.5° | 7149.0  | 6607.6  | 4960.7 | 3301.3 | 2456.5 | 2256.0 | 2215.9 | 2225.9 | 2238.5 | 2235.9 | 2230.9 |
| 20°   | 7530.0  | 6813.1  | 4637.3 | 2847.6 | 2220.9 | 2125.7 | 2103.1 | 2113.1 | 2123.1 | 2118.1 | 2115.6 |
| 22.5° | 7963.7  | 7033.7  | 4278.9 | 2494.1 | 2063.0 | 2005.3 | 1980.3 | 1982.8 | 1982.8 | 1972.7 | 1967.7 |
| 25°   | 8482.5  | 7276.8  | 3902.9 | 2243.5 | 1942.7 | 1897.5 | 1867.5 | 1857.4 | 1842.4 | 1812.3 | 1807.3 |
| 27.5° | 9101.7  | 7535.0  | 3541.9 | 2068.0 | 1847.4 | 1804.8 | 1769.7 | 1744.6 | 1707.0 | 1656.9 | 1651.9 |
| 30°   | 9798.5  | 7848.4  | 3236.1 | 1957.7 | 1772.2 | 1729.6 | 1689.5 | 1651.9 | 1596.7 | 1534.1 | 1529.1 |
| 32.5° | 10618.2 | 8184.3  | 3013.0 | 1885.0 | 1704.5 | 1659.4 | 1611.8 | 1566.7 | 1506.5 | 1443.8 | 1446.3 |
| 35°   | 11595.8 | 8590.3  | 2882.7 | 1834.9 | 1651.9 | 1591.7 | 1539.1 | 1489.0 | 1443.8 | 1388.7 | 1383.7 |
| 37.5° | 12656.1 | 9021.5  | 2842.6 | 1809.8 | 1616.8 | 1524.1 | 1463.9 | 1428.8 | 1423.8 | 1391.2 | 1388.7 |
| 40°   | 13816.7 | 9532.8  | 2872.6 | 1794.8 | 1579.2 | 1458.9 | 1393.7 | 1386.2 | 1398.7 | 1341.1 | 1343.6 |
| 42.5° | 15045.0 | 10139.5 | 2922.8 | 1777.2 | 1526.6 | 1393.7 | 1331.0 | 1331.0 | 1321.0 | 1240.8 | 1240.8 |
| 45°   | 16373.5 | 10838.8 | 2972.9 | 1734.6 | 1463.9 | 1328.5 | 1280.9 | 1263.4 | 1220.7 | 1143.0 | 1140.5 |
| 47.5° | 17712.1 | 11550.7 | 3010.5 | 1656.9 | 1388.7 | 1273.4 | 1230.8 | 1190.7 | 1128.0 | 1057.8 | 1055.3 |
| 50°   | 18983.0 | 12189.9 | 2970.4 | 1541.6 | 1303.5 | 1220.7 | 1175.6 | 1120.5 | 1052.8 | 1005.2 | 997.7  |
| 52.5° | 20118.5 | 12743.9 | 2799.9 | 1406.2 | 1213.2 | 1165.6 | 1125.5 | 1067.8 | 1012.7 | 962.6  | 957.5  |
| 55°   | 21106.1 | 13192.6 | 2499.1 | 1278.4 | 1133.0 | 1118.0 | 1077.9 | 1005.2 | 930.0  | 887.4  | 882.3  |
| 57.5° | 22053.6 | 13533.5 | 2123.1 | 1173.1 | 1060.3 | 1065.3 | 1005.2 | 940.0  | 869.8  | 824.7  | 819.7  |
| 60°   | 23314.5 | 13989.7 | 1742.1 | 1075.4 | 982.6  | 997.7  | 932.5  | 884.9  | 797.1  | 739.5  | 731.9  |
| 62.5° | 25329.8 | 14699.1 | 1383.7 | 955.0  | 892.4  | 897.4  | 869.8  | 812.2  | 706.9  | 639.2  | 634.2  |
| 65°   | 26929.1 | 14438.4 | 1090.4 | 824.7  | 789.6  | 797.1  | 797.1  | 734.5  | 621.7  | 543.9  | 536.4  |
| 67.5° | 26748.6 | 12362.9 | 869.8  | 696.9  | 691.8  | 696.9  | 714.4  | 661.8  | 551.5  | 488.8  | 478.8  |
| 70°   | 24640.5 | 9833.6  | 696.9  | 579.0  | 601.6  | 589.1  | 639.2  | 604.1  | 496.3  | 433.7  | 426.1  |
| 72.5° | 20105.9 | 7083.8  | 531.4  | 478.8  | 461.2  | 481.3  | 576.5  | 543.9  | 413.6  | 343.4  | 335.9  |
| 75°   | 11748.7 | 3780.0  | 396.1  | 378.5  | 333.4  | 401.1  | 511.4  | 463.7  | 315.8  | 253.2  | 245.7  |
| 77.5° | 3825.2  | 1318.5  | 290.8  | 278.2  | 248.2  | 323.4  | 436.2  | 391.0  | 258.2  | 200.5  | 193.0  |
| 80°   | 1025.2  | 398.6   | 198.0  | 183.0  | 160.4  | 240.6  | 345.9  | 310.8  | 185.5  | 130.3  | 127.8  |
| 82.5° | 411.1   | 167.9   | 115.3  | 102.8  | 87.7   | 165.4  | 273.2  | 250.7  | 137.9  | 82.7   | 82.7   |
| 85°   | 132.9   | 55.1    | 42.6   | 32.6   | 40.1   | 102.8  | 162.9  | 170.5  | 97.8   | 42.6   | 32.6   |
| 87.5° | 17.5    | 7.5     | 7.5    | 10.0   | 7.5    | 17.5   | 50.1   | 47.6   | 27.6   | 5.0    | 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)