

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: P952711

Luminaire Tested: **GALN-SB6C-727-U-SL2**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P952711  
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-SB6C-727-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 41868 lumens  
Efficiency: N/A  
Efficacy: 139.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - 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

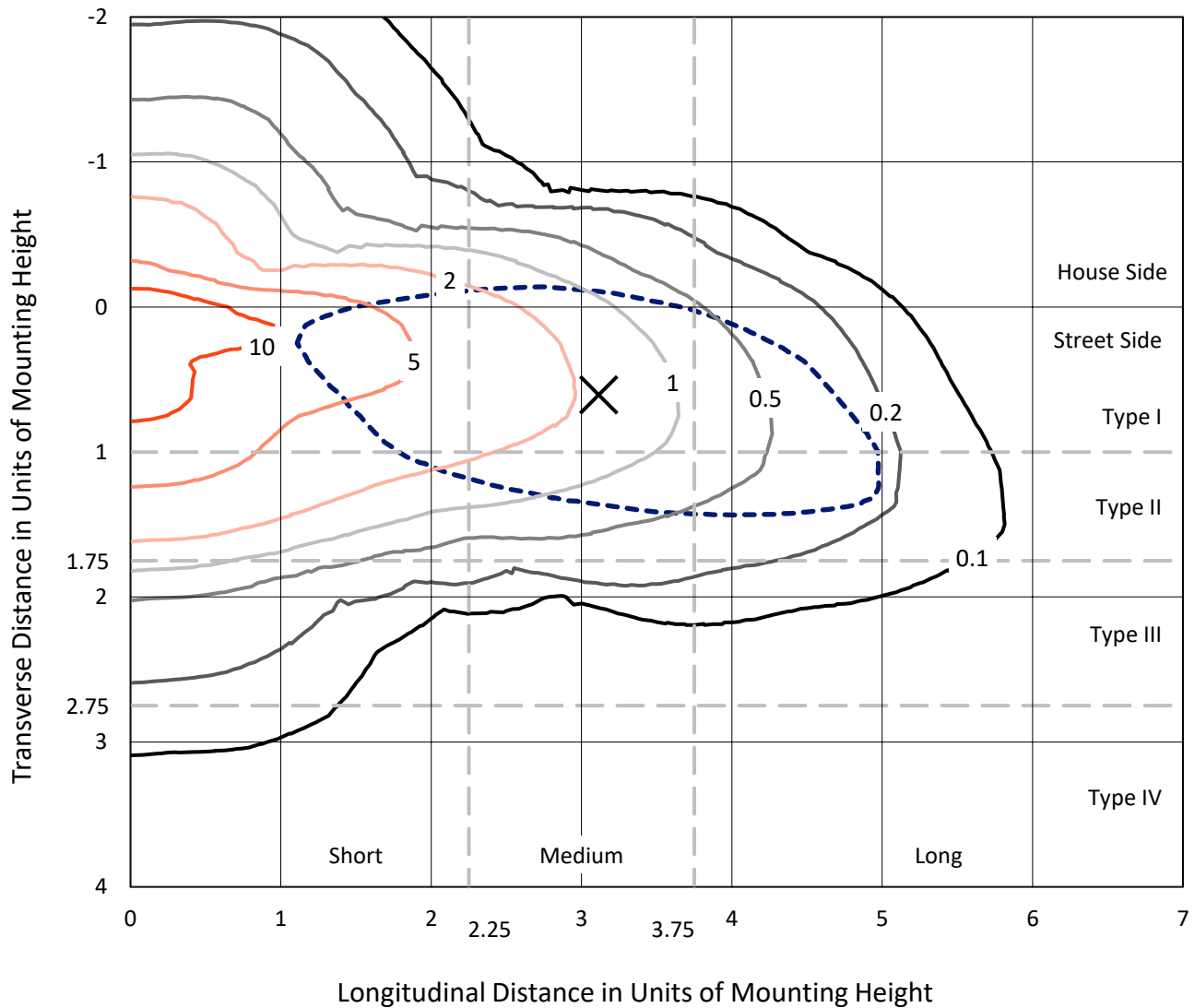


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd

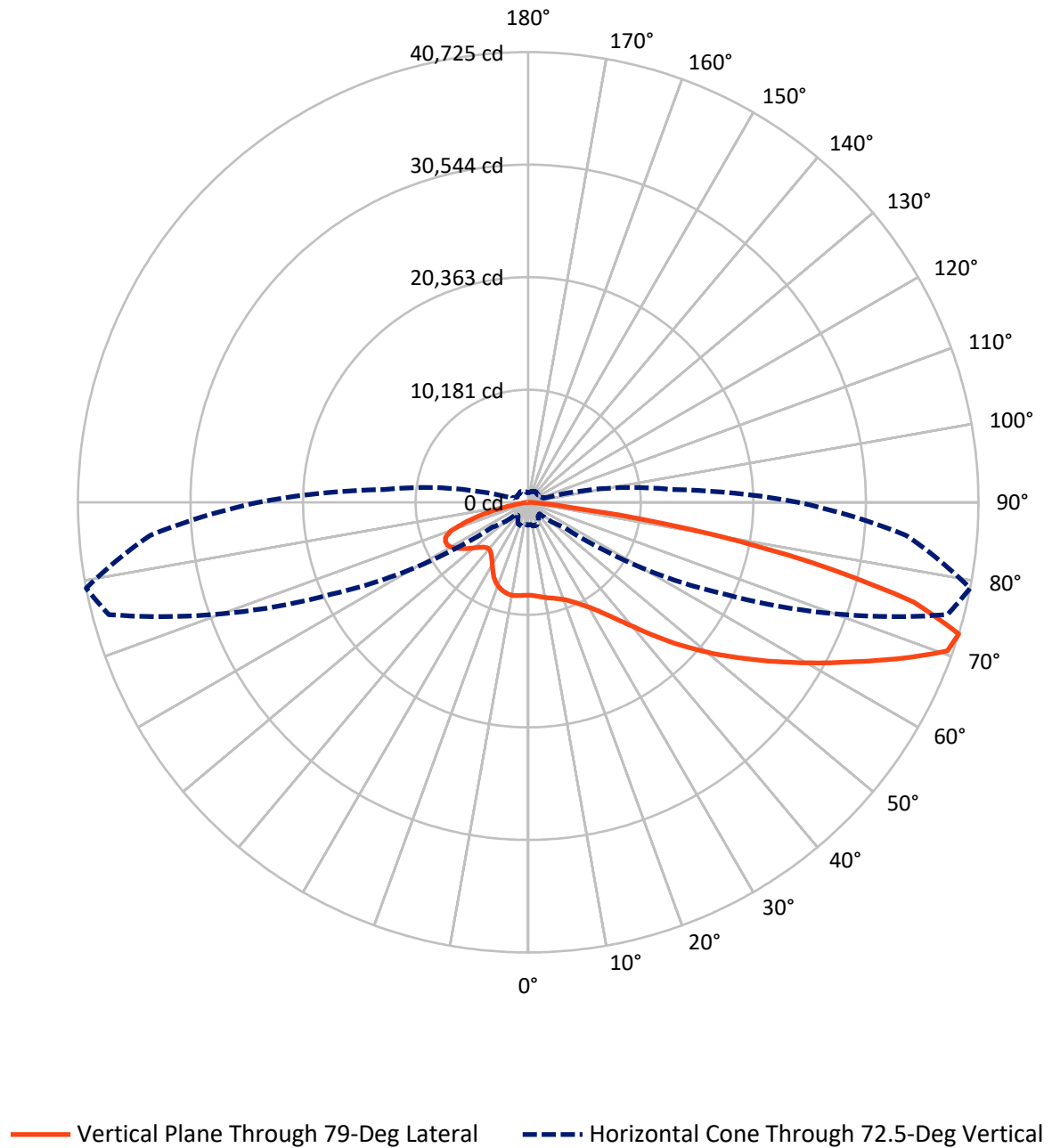


Based on 25 foot mounting height. Maximum calculated value = 13.5 fc  
Type II - Medium - N/A

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## Luminous Intensity Polar Plot



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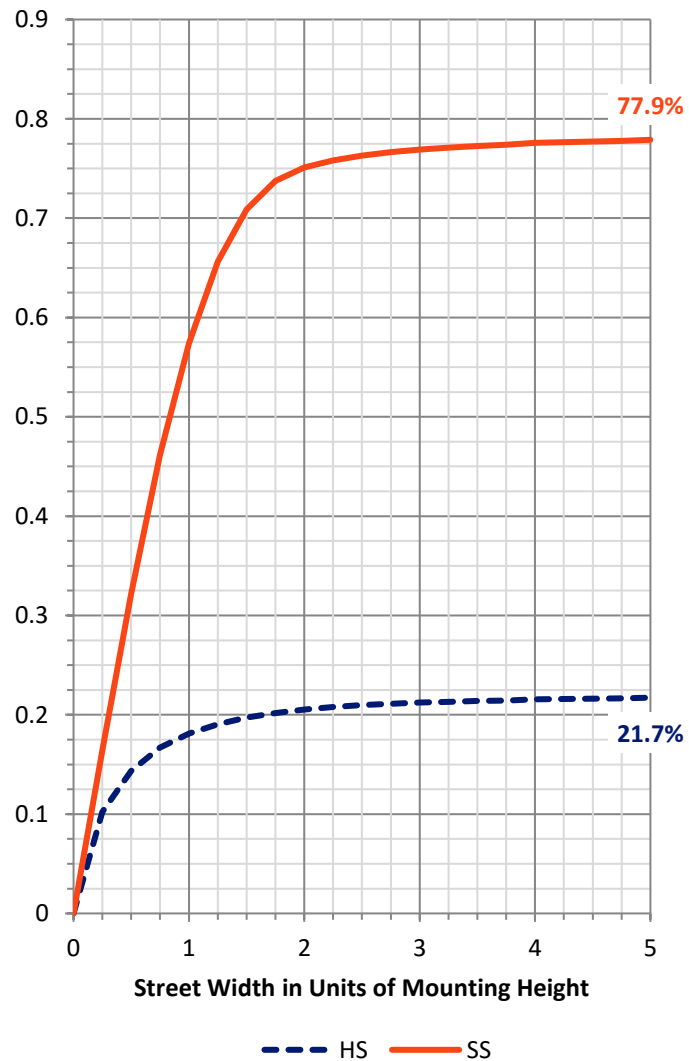
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 9213.3   | 0.0    | 9213.3  |
|                    | % Fixture | 22.0     | 0.0    | 22.0    |
| <b>Street Side</b> | Lumens    | 32654.7  | 0.0    | 32654.7 |
|                    | % Fixture | 78.0     | 0.0    | 78.0    |
| <b>Total</b>       | Lumens    | 41868.0  | 0.0    | 41868.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 762.9   | 1.8       |
| 10°-20°   | 1994.6  | 4.8       |
| 20°-30°   | 3218.4  | 7.7       |
| 30°-40°   | 4830.4  | 11.5      |
| 40°-50°   | 6852.2  | 16.4      |
| 50°-60°   | 8653.5  | 20.7      |
| 60°-70°   | 8788.8  | 21.0      |
| 70°-80°   | 5990.0  | 14.3      |
| 80°-90°   | 777.1   | 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°    | 41868.0 | 100.0     |
| 0°-180°   | 41868.0 | 100.0     |

**Coefficient of Utilization**



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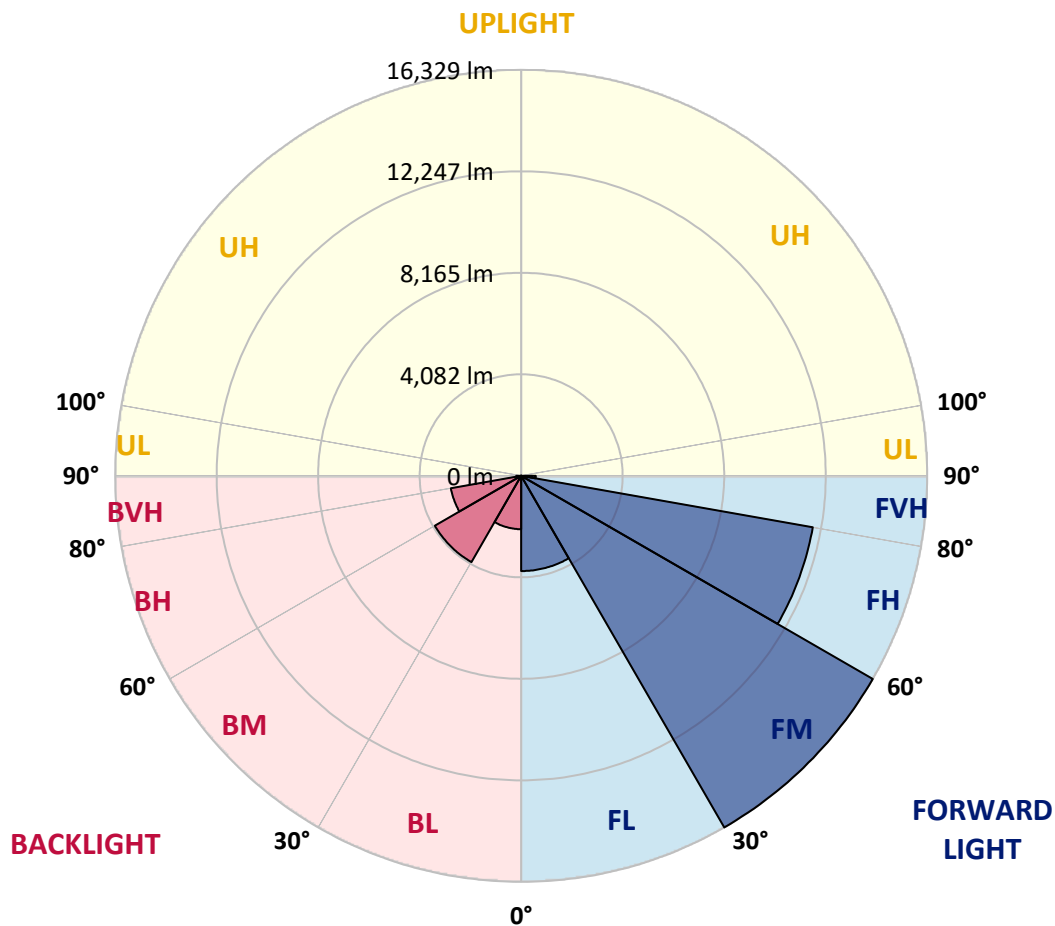
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 3829.9  | 9.1       |                         |      |          |
| FM   | (30°-60°)   | 16329.4 | 39.0      |                         |      |          |
| FH   | (60°-80°)   | 11910.0 | 28.4      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 585.4   | 1.4       |                         |      | G4/750   |
| BL   | (0°-30°)    | 2146.0  | 5.1       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 4006.8  | 9.6       | B3/5000                 |      |          |
| BH   | (60°-80°)   | 2868.7  | 6.9       | B4/5000                 |      | G4/5000  |
| BVH  | (80°-90°)   | 191.7   | 0.5       |                         |      | G2/225   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B4-U0-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 79°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 8404.6  | 8404.6  | 8404.6  | 8404.6  | 8404.6  | 8404.6  | 8404.6  | 8404.6  | 8404.6  | 8404.6  | 8404.6  |
| 2.5°  | 8409.0  | 8369.2  | 8393.5  | 8384.7  | 8395.7  | 8409.0  | 8413.5  | 8420.1  | 8442.3  | 8440.0  | 8437.8  |
| 5°    | 8391.3  | 8351.5  | 8384.7  | 8373.6  | 8402.4  | 8433.4  | 8460.0  | 8484.3  | 8519.8  | 8535.3  | 8513.1  |
| 7.5°  | 8353.7  | 8327.1  | 8360.3  | 8393.5  | 8446.7  | 8493.2  | 8530.8  | 8586.2  | 8637.1  | 8646.0  | 8661.5  |
| 10°   | 8134.4  | 8114.5  | 8192.0  | 8278.4  | 8424.5  | 8550.8  | 8632.7  | 8696.9  | 8752.3  | 8761.2  | 8783.3  |
| 12.5° | 7906.3  | 7881.9  | 7968.3  | 8085.7  | 8322.7  | 8550.8  | 8723.5  | 8807.7  | 8856.4  | 8885.2  | 8918.4  |
| 15°   | 7868.7  | 7848.7  | 7897.4  | 7999.3  | 8196.4  | 8491.0  | 8785.5  | 8940.5  | 8982.6  | 9015.8  | 9029.1  |
| 17.5° | 8050.3  | 8012.6  | 8032.5  | 8068.0  | 8183.1  | 8435.6  | 8834.2  | 9091.1  | 9155.4  | 9190.8  | 9190.8  |
| 20°   | 8471.0  | 8417.9  | 8386.9  | 8316.0  | 8296.1  | 8444.5  | 8829.8  | 9272.7  | 9356.9  | 9401.2  | 9412.3  |
| 22.5° | 9031.3  | 8995.9  | 8929.5  | 8750.1  | 8555.2  | 8553.0  | 8914.0  | 9505.3  | 9662.5  | 9704.6  | 9678.0  |
| 25°   | 9709.0  | 9655.9  | 9571.7  | 9328.1  | 8953.8  | 8767.8  | 9055.7  | 9802.0  | 10065.6 | 10076.7 | 9999.2  |
| 27.5° | 10488.6 | 10408.9 | 10293.7 | 9972.6  | 9467.6  | 9104.4  | 9272.7  | 10143.1 | 10528.5 | 10524.0 | 10364.6 |
| 30°   | 11310.2 | 11230.5 | 11108.7 | 10718.9 | 10083.3 | 9558.4  | 9573.9  | 10510.7 | 11077.7 | 11053.3 | 10780.9 |
| 32.5° | 11910.4 | 11850.6 | 11826.2 | 11525.0 | 10792.0 | 10094.4 | 9919.4  | 10918.2 | 11755.4 | 11733.2 | 11352.3 |
| 35°   | 12371.0 | 12293.5 | 12322.3 | 12169.5 | 11564.9 | 10694.6 | 10342.4 | 11403.2 | 12579.2 | 12577.0 | 12103.1 |
| 37.5° | 12827.3 | 12758.6 | 12783.0 | 12681.1 | 12280.2 | 11456.4 | 10858.4 | 11996.8 | 13600.2 | 13648.9 | 13011.1 |
| 40°   | 13243.6 | 13170.5 | 13268.0 | 13172.7 | 12836.1 | 12267.0 | 11445.3 | 12667.8 | 14782.8 | 14875.8 | 14109.5 |
| 42.5° | 13493.9 | 13436.3 | 13598.0 | 13600.2 | 13318.9 | 12951.3 | 12089.8 | 13407.5 | 16151.5 | 16359.6 | 15460.5 |
| 45°   | 13580.2 | 13560.3 | 13803.9 | 13854.9 | 13746.3 | 13347.7 | 12670.0 | 14213.6 | 17626.4 | 17998.5 | 16999.7 |
| 47.5° | 13487.2 | 13449.6 | 13786.2 | 13974.5 | 14060.8 | 13533.7 | 13150.6 | 15086.2 | 19132.4 | 19677.2 | 18678.4 |
| 50°   | 13017.7 | 12944.6 | 13445.2 | 13841.6 | 14149.4 | 13655.5 | 13635.6 | 16093.9 | 20844.3 | 21440.0 | 20365.9 |
| 52.5° | 12173.9 | 12118.6 | 12687.7 | 13376.5 | 13954.5 | 13715.3 | 14180.4 | 17194.6 | 22469.9 | 23240.6 | 22095.6 |
| 55°   | 11095.4 | 11022.3 | 11649.1 | 12548.2 | 13469.5 | 13695.4 | 14725.2 | 18425.9 | 24387.7 | 25169.5 | 23882.8 |
| 57.5° | 9385.7  | 9239.5  | 10032.4 | 11095.4 | 12678.9 | 13671.0 | 15292.2 | 19650.6 | 26336.6 | 27273.4 | 25789.6 |
| 60°   | 6892.0  | 6675.0  | 7647.2  | 8907.3  | 11133.1 | 13434.1 | 15994.2 | 21023.7 | 28675.3 | 29519.1 | 27871.4 |
| 62.5° | 4012.9  | 3886.7  | 4522.3  | 5698.3  | 8391.3  | 12038.8 | 16388.4 | 22620.5 | 30974.1 | 31860.0 | 29917.7 |
| 65°   | 3116.0  | 3080.6  | 3135.9  | 3226.7  | 4670.7  | 9013.6  | 15172.6 | 24177.4 | 33897.5 | 34517.6 | 32050.4 |
| 67.5° | 2850.3  | 2823.7  | 2848.0  | 2677.5  | 2369.7  | 5020.6  | 12003.4 | 24571.6 | 37029.0 | 37405.5 | 33917.4 |
| 70°   | 2533.6  | 2502.6  | 2582.3  | 2436.1  | 1864.7  | 2283.3  | 7755.7  | 23140.9 | 39520.5 | 40226.9 | 35337.0 |
| 72.5° | 2064.1  | 2028.6  | 2214.7  | 2148.2  | 1570.2  | 1466.1  | 3895.6  | 19741.4 | 39259.1 | 40725.2 | 34320.5 |
| 75°   | 1585.7  | 1565.8  | 1787.2  | 1842.6  | 1280.1  | 1153.8  | 1869.2  | 14674.3 | 34548.6 | 36025.7 | 29578.9 |
| 77.5° | 1231.3  | 1215.8  | 1328.8  | 1530.3  | 1032.0  | 894.7   | 1149.4  | 9308.2  | 26035.4 | 26294.6 | 20383.7 |
| 80°   | 923.5   | 879.2   | 983.3   | 1184.8  | 803.9   | 653.3   | 779.6   | 5428.1  | 16457.1 | 14917.9 | 8871.9  |
| 82.5° | 578.0   | 555.9   | 642.2   | 790.6   | 567.0   | 449.6   | 507.2   | 2998.6  | 6595.2  | 3884.5  | 1711.9  |
| 85°   | 330.0   | 321.1   | 349.9   | 451.8   | 307.8   | 259.1   | 290.1   | 1324.4  | 1204.8  | 828.3   | 516.0   |
| 87.5° | 132.9   | 128.4   | 159.5   | 201.5   | 112.9   | 95.2    | 101.9   | 318.9   | 265.8   | 245.8   | 170.5   |
| 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°    | 8404.6  | 8404.6  | 8404.6 | 8404.6 | 8404.6 | 8404.6 | 8404.6 | 8404.6 | 8404.6 | 8404.6 | 8404.6 |
| 2.5°  | 8429.0  | 8429.0  | 8398.0 | 8349.2 | 8293.9 | 8258.4 | 8200.9 | 8185.4 | 8125.6 | 8107.8 | 8136.6 |
| 5°    | 8530.8  | 8513.1  | 8417.9 | 8280.6 | 8092.3 | 7919.6 | 7729.1 | 7609.5 | 7441.2 | 7381.4 | 7425.7 |
| 7.5°  | 8659.3  | 8610.6  | 8446.7 | 8145.5 | 7751.3 | 7363.7 | 6960.7 | 6655.0 | 6362.7 | 6258.6 | 6271.9 |
| 10°   | 8776.7  | 8708.0  | 8429.0 | 7901.9 | 7219.8 | 6548.7 | 5906.5 | 5456.9 | 5115.8 | 4976.3 | 5007.3 |
| 12.5° | 8894.0  | 8767.8  | 8311.6 | 7496.6 | 6464.6 | 5554.3 | 4870.0 | 4520.1 | 4309.7 | 4141.4 | 4196.8 |
| 15°   | 9004.8  | 8827.6  | 8130.0 | 6954.0 | 5636.3 | 4712.8 | 4207.8 | 3928.8 | 3760.5 | 3649.7 | 3669.7 |
| 17.5° | 9133.2  | 8878.5  | 7857.6 | 6265.2 | 4847.9 | 4130.3 | 3718.4 | 3550.1 | 3516.9 | 3503.6 | 3512.4 |
| 20°   | 9312.6  | 8925.0  | 7498.8 | 5494.6 | 4267.6 | 3665.2 | 3452.6 | 3437.1 | 3434.9 | 3428.3 | 3450.4 |
| 22.5° | 9505.3  | 8980.4  | 7024.9 | 4794.7 | 3773.8 | 3375.1 | 3337.5 | 3306.5 | 3286.5 | 3284.3 | 3308.7 |
| 25°   | 9733.4  | 8998.1  | 6431.3 | 4221.1 | 3353.0 | 3237.8 | 3193.5 | 3147.0 | 3133.7 | 3133.7 | 3147.0 |
| 27.5° | 9954.9  | 8938.3  | 5740.4 | 3722.8 | 3116.0 | 3111.6 | 3054.0 | 3038.5 | 3036.3 | 3042.9 | 3060.6 |
| 30°   | 10176.3 | 8825.4  | 5053.8 | 3262.2 | 2978.7 | 2978.7 | 2958.8 | 2969.8 | 2978.7 | 3000.9 | 3016.4 |
| 32.5° | 10475.3 | 8705.8  | 4480.2 | 2921.1 | 2859.1 | 2837.0 | 2856.9 | 2879.0 | 2887.9 | 2916.7 | 2941.1 |
| 35°   | 10913.8 | 8621.6  | 4024.0 | 2735.1 | 2735.1 | 2706.3 | 2717.4 | 2712.9 | 2693.0 | 2679.7 | 2710.7 |
| 37.5° | 11494.0 | 8617.2  | 3647.5 | 2648.7 | 2631.0 | 2626.6 | 2628.8 | 2600.0 | 2522.5 | 2429.5 | 2431.7 |
| 40°   | 12191.7 | 8736.8  | 3357.4 | 2588.9 | 2575.6 | 2602.2 | 2588.9 | 2511.4 | 2298.8 | 2137.1 | 2132.7 |
| 42.5° | 13128.5 | 9077.9  | 3171.4 | 2515.8 | 2555.7 | 2588.9 | 2535.8 | 2267.8 | 2123.9 | 2015.3 | 2010.9 |
| 45°   | 14231.4 | 9631.5  | 3076.2 | 2438.3 | 2518.1 | 2557.9 | 2301.0 | 2183.6 | 2068.5 | 1937.8 | 1929.0 |
| 47.5° | 15480.4 | 10329.1 | 3054.0 | 2365.2 | 2433.9 | 2458.3 | 2201.4 | 2148.2 | 2017.5 | 1875.8 | 1864.7 |
| 50°   | 16840.2 | 11155.2 | 3113.8 | 2278.9 | 2312.1 | 2227.9 | 2168.1 | 2119.4 | 1984.3 | 1844.8 | 1829.3 |
| 52.5° | 18246.5 | 12065.4 | 3233.4 | 2161.5 | 2190.3 | 2097.3 | 2154.9 | 2112.8 | 1964.4 | 1776.2 | 1762.9 |
| 55°   | 19628.5 | 12982.3 | 3348.6 | 2024.2 | 2066.3 | 1979.9 | 2117.2 | 2086.2 | 1873.6 | 1661.0 | 1649.9 |
| 57.5° | 21032.5 | 13894.7 | 3461.5 | 1902.4 | 1946.7 | 1867.0 | 2057.4 | 2015.3 | 1771.7 | 1554.7 | 1550.3 |
| 60°   | 22492.0 | 14780.6 | 3514.7 | 1785.0 | 1816.0 | 1762.9 | 1966.6 | 1893.5 | 1656.6 | 1446.2 | 1439.5 |
| 62.5° | 23858.4 | 15518.1 | 3428.3 | 1667.6 | 1687.6 | 1665.4 | 1847.0 | 1749.6 | 1541.4 | 1324.4 | 1322.1 |
| 65°   | 25229.3 | 15956.6 | 3162.5 | 1552.5 | 1556.9 | 1545.8 | 1678.7 | 1594.5 | 1406.3 | 1218.1 | 1204.8 |
| 67.5° | 26471.7 | 16202.4 | 2739.5 | 1428.5 | 1417.4 | 1412.9 | 1521.5 | 1426.2 | 1275.6 | 1111.8 | 1098.5 |
| 70°   | 26735.3 | 15577.9 | 2092.8 | 1282.3 | 1282.3 | 1271.2 | 1348.7 | 1251.3 | 1131.7 | 998.8  | 994.4  |
| 72.5° | 24418.7 | 13104.1 | 1486.0 | 1116.2 | 1133.9 | 1111.8 | 1176.0 | 1094.0 | 985.5  | 896.9  | 870.4  |
| 75°   | 19690.5 | 9609.4  | 1080.7 | 945.7  | 976.7  | 939.0  | 998.8  | 941.2  | 848.2  | 846.0  | 761.8  |
| 77.5° | 13529.3 | 5941.9  | 784.0  | 779.6  | 801.7  | 753.0  | 821.6  | 790.6  | 706.5  | 668.8  | 626.7  |
| 80°   | 5773.6  | 2369.7  | 571.4  | 602.4  | 602.4  | 558.1  | 637.8  | 646.7  | 573.6  | 555.9  | 555.9  |
| 82.5° | 1149.4  | 673.3   | 400.9  | 414.1  | 389.8  | 376.5  | 451.8  | 500.5  | 691.0  | 768.5  | 770.7  |
| 85°   | 345.5   | 248.0   | 241.4  | 225.9  | 199.3  | 201.5  | 265.8  | 502.7  | 620.1  | 354.3  | 305.6  |
| 87.5° | 95.2    | 62.0    | 64.2   | 50.9   | 42.1   | 55.4   | 90.8   | 380.9  | 208.2  | 88.6   | 75.3   |
| 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)