

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: P529352

Luminaire Tested: **GALN-SA4C-730-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529352  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4C-730-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21428 lumens  
Efficiency: N/A  
Efficacy: 100.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

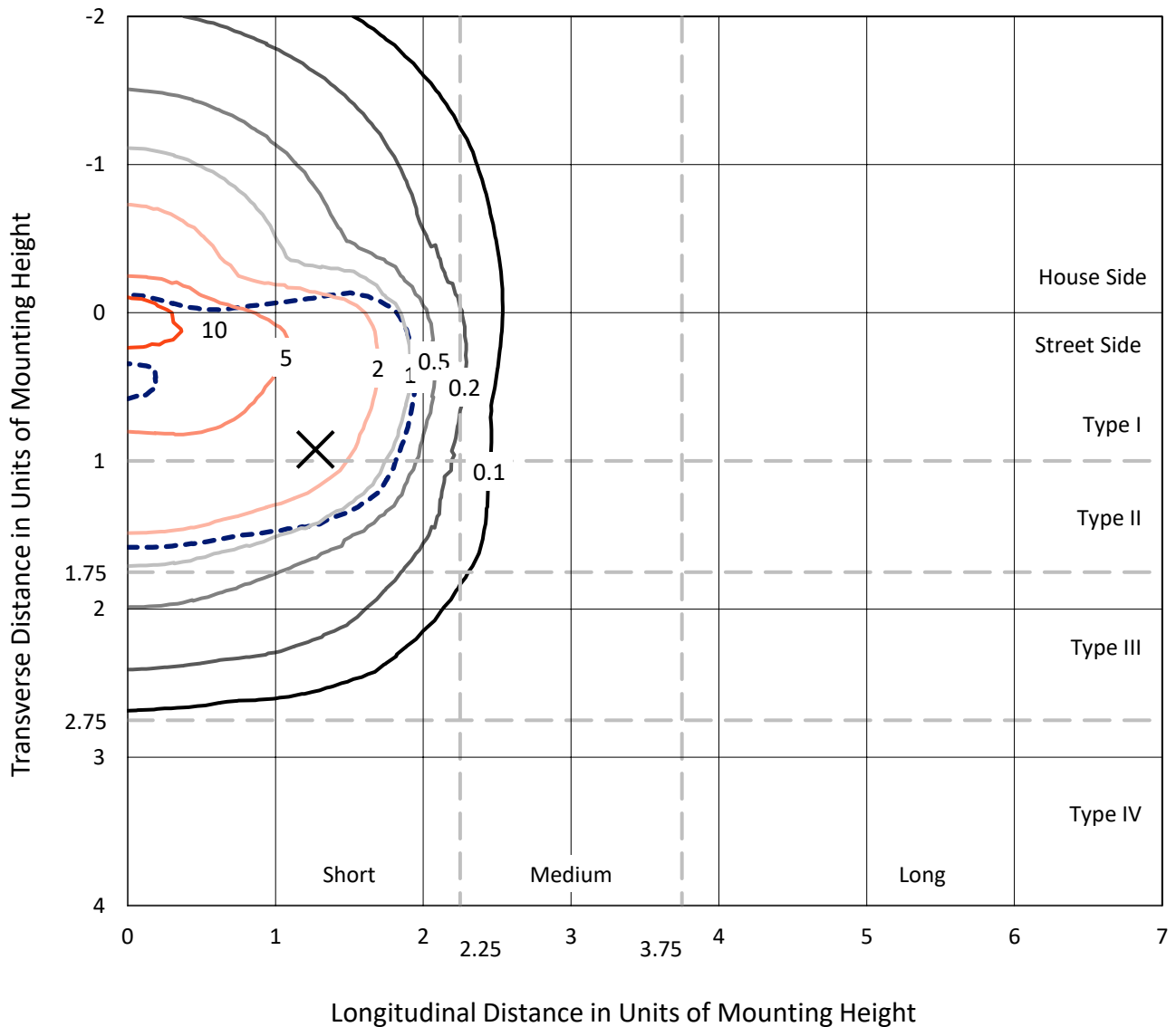
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

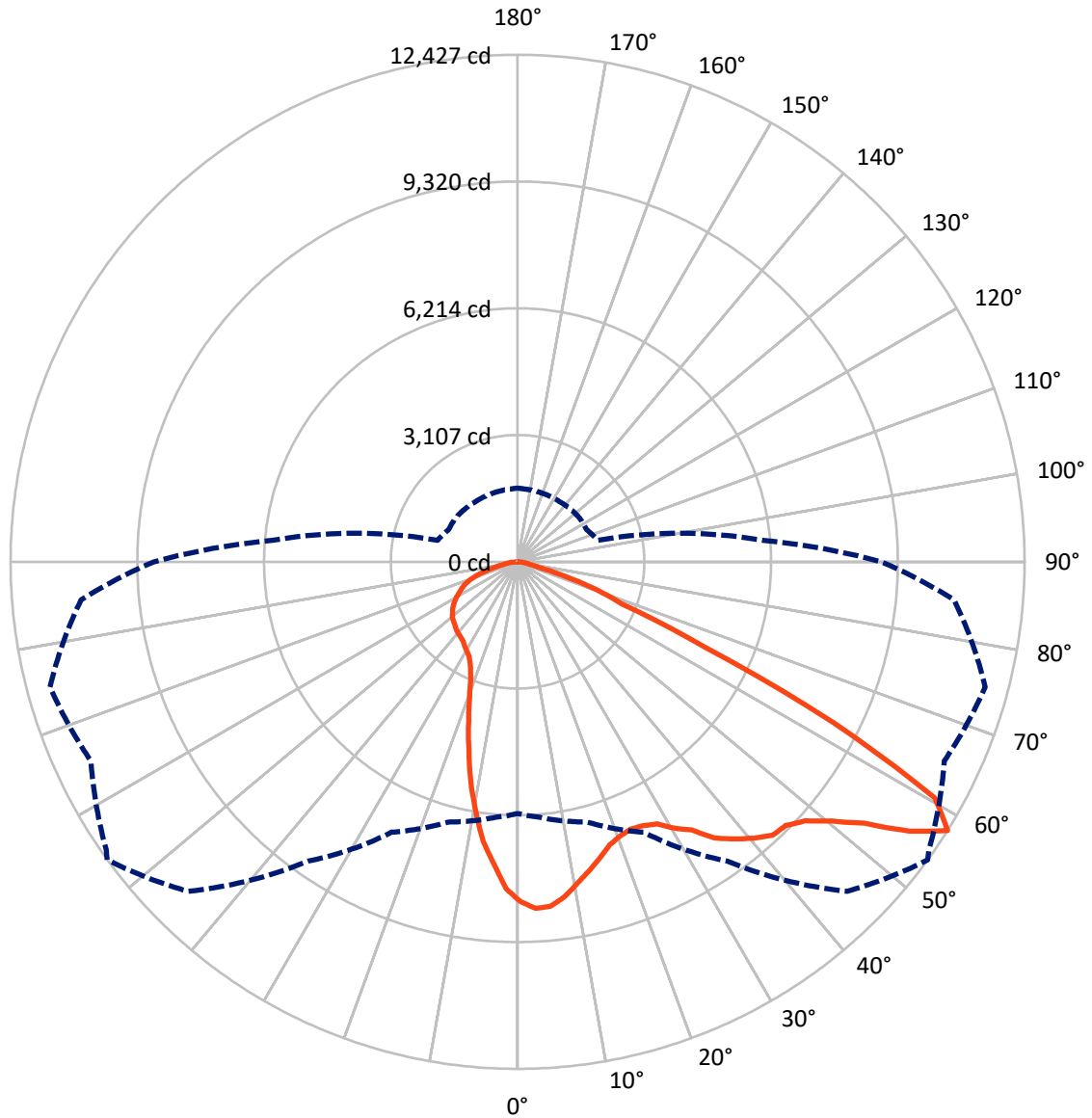
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

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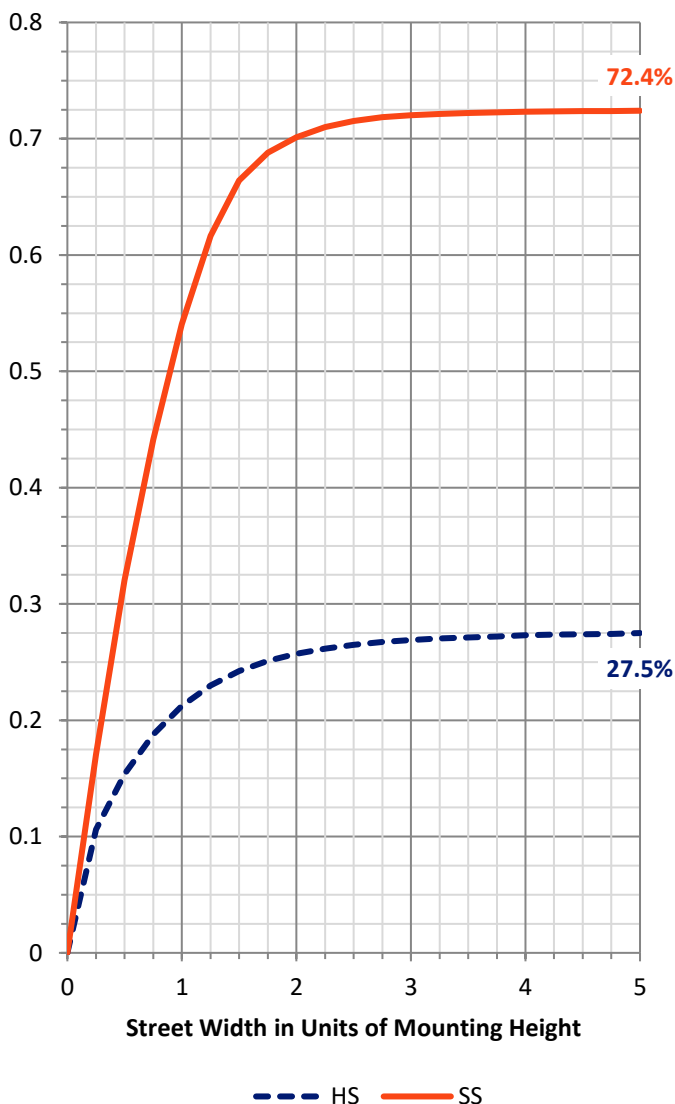
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5928.2   | 0.0    | 5928.2  |
|                    | % Fixture | 27.7     | 0.0    | 27.7    |
| <b>Street Side</b> | Lumens    | 15499.8  | 0.0    | 15499.8 |
|                    | % Fixture | 72.3     | 0.0    | 72.3    |
| <b>Total</b>       | Lumens    | 21428.0  | 0.0    | 21428.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 718.3   | 3.4       |
| 10°-20°   | 1663.1  | 7.8       |
| 20°-30°   | 2336.6  | 10.9      |
| 30°-40°   | 3266.7  | 15.2      |
| 40°-50°   | 4422.4  | 20.6      |
| 50°-60°   | 5386.7  | 25.1      |
| 60°-70°   | 2805.6  | 13.1      |
| 70°-80°   | 718.9   | 3.4       |
| 80°-90°   | 109.7   | 0.5       |
| 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°    | 21428.0 | 100.0     |
| 0°-180°   | 21428.0 | 100.0     |

**Coefficient of Utilization**



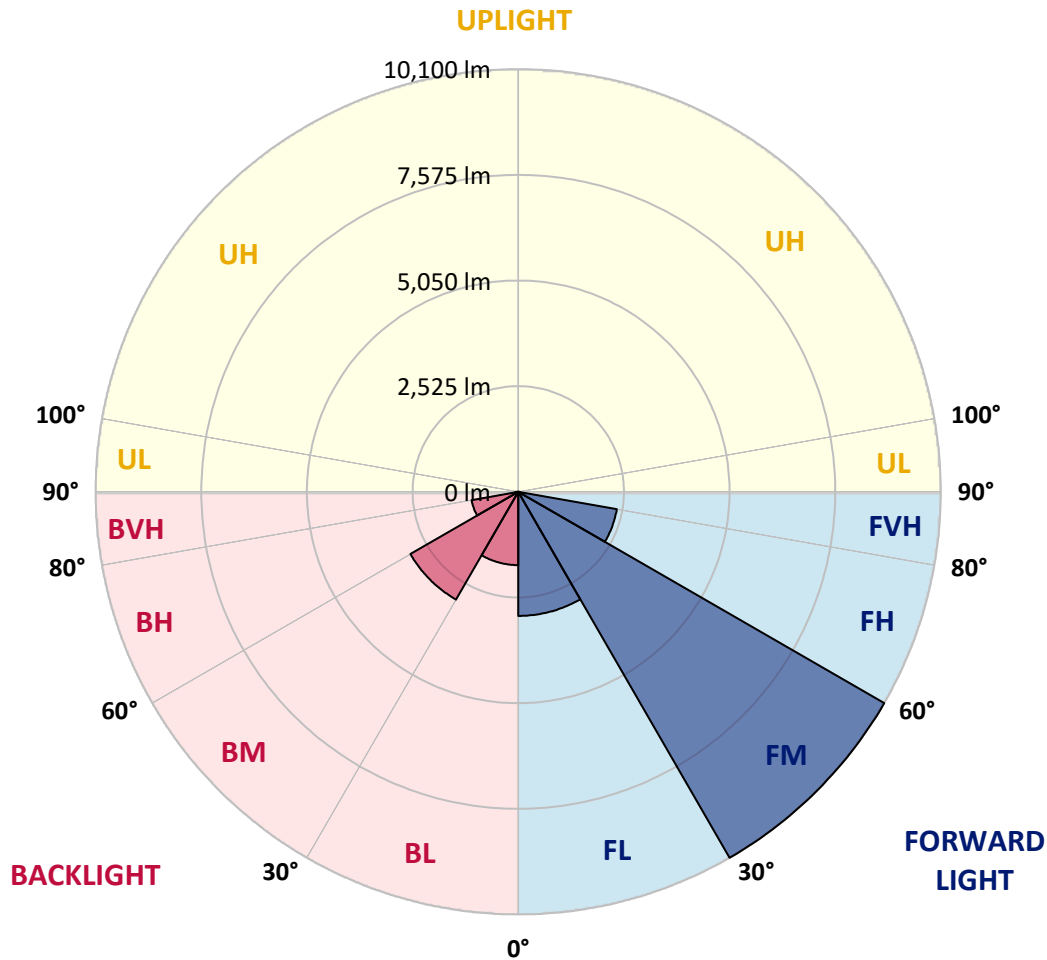
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2965.9  | 13.8      |                         |      |         |
| FM (30°-60°)   | 10100.5 | 47.1      |                         |      |         |
| FH (60°-80°)   | 2392.0  | 11.2      |                         |      | G2/5000 |
| FVH (80°-90°)  | 41.4    | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 1752.1  | 8.2       | B3/2500                 |      |         |
| BM (30°-60°)   | 2975.3  | 13.9      | B3/5000                 |      |         |
| BH (60°-80°)   | 1132.6  | 5.3       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 68.2    | 0.3       |                         |      | 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 Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°     | 45°     | 54°     | 55°     | 65°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 8328.8 | 8328.8 | 8328.8 | 8328.8 | 8328.8  | 8328.8  | 8328.8  | 8328.8  | 8328.8  | 8328.8  | 8328.8  |
| 2.5°  | 8565.7 | 8532.6 | 8538.1 | 8582.2 | 8527.1  | 8505.1  | 8505.1  | 8397.7  | 8405.9  | 8331.6  | 8312.3  |
| 5°    | 8367.4 | 8290.3 | 8342.6 | 8408.7 | 8419.7  | 8441.7  | 8477.5  | 8450.0  | 8372.9  | 8293.0  | 8163.6  |
| 7.5°  | 7849.6 | 7918.4 | 7937.7 | 7984.5 | 8083.7  | 8174.6  | 8287.5  | 8210.4  | 8207.6  | 8127.8  | 8050.6  |
| 10°   | 7395.1 | 7353.8 | 7458.5 | 7527.3 | 7692.6  | 7844.1  | 8017.6  | 8009.3  | 8050.6  | 7959.8  | 7827.5  |
| 12.5° | 6943.4 | 6910.4 | 6960.0 | 7117.0 | 7348.3  | 7568.6  | 7775.2  | 7698.1  | 7918.4  | 7901.9  | 7618.2  |
| 15°   | 6464.2 | 6489.0 | 6560.6 | 6706.6 | 7009.5  | 7273.9  | 7535.6  | 7538.4  | 7733.9  | 7800.0  | 7419.9  |
| 17.5° | 6128.2 | 6100.6 | 6191.5 | 6409.1 | 6679.0  | 6995.8  | 7293.2  | 7353.8  | 7654.0  | 7692.6  | 7359.3  |
| 20°   | 5877.5 | 5916.1 | 6034.5 | 6144.7 | 6455.9  | 6838.8  | 7174.8  | 7196.8  | 7637.5  | 7742.2  | 7262.9  |
| 22.5° | 5817.0 | 5794.9 | 5833.5 | 6012.5 | 6268.6  | 6684.5  | 7111.4  | 7194.1  | 7634.7  | 7725.6  | 7081.1  |
| 25°   | 5753.6 | 5825.2 | 5822.5 | 6001.5 | 6188.8  | 6560.6  | 7163.8  | 7254.7  | 7780.7  | 7811.0  | 7105.9  |
| 27.5° | 5896.8 | 5888.6 | 5965.7 | 5979.5 | 6210.8  | 6593.6  | 7273.9  | 7342.8  | 8023.1  | 7998.3  | 7125.2  |
| 30°   | 6040.0 | 5998.7 | 6045.6 | 6208.1 | 6315.5  | 6783.7  | 7576.9  | 7571.4  | 8337.1  | 8320.6  | 7185.8  |
| 32.5° | 6216.3 | 6197.0 | 6227.3 | 6370.6 | 6552.3  | 7037.1  | 7833.1  | 7995.6  | 8656.6  | 8761.2  | 7395.1  |
| 35°   | 6249.4 | 6329.2 | 6400.9 | 6593.6 | 6852.5  | 7447.5  | 8315.0  | 8450.0  | 9025.6  | 9353.4  | 7794.5  |
| 37.5° | 6458.7 | 6489.0 | 6657.0 | 6998.5 | 7235.4  | 7995.6  | 8620.8  | 8706.1  | 9361.7  | 9733.5  | 8215.9  |
| 40°   | 6681.8 | 6717.6 | 6971.0 | 7329.0 | 7654.0  | 8353.6  | 8907.2  | 8934.8  | 9469.1  | 10025.4 | 8491.3  |
| 42.5° | 6984.7 | 7017.8 | 7268.4 | 7717.4 | 8152.5  | 8659.3  | 9160.6  | 9190.9  | 9460.8  | 10361.4 | 8929.2  |
| 45°   | 7298.7 | 7378.6 | 7673.3 | 8182.8 | 8573.9  | 9017.4  | 9218.4  | 9342.4  | 9537.9  | 10661.7 | 9284.5  |
| 47.5° | 7739.4 | 7813.8 | 8056.1 | 8554.7 | 9011.9  | 9331.4  | 9485.6  | 9606.8  | 9722.5  | 10923.3 | 9513.1  |
| 50°   | 8207.6 | 8221.4 | 8516.1 | 8967.8 | 9303.8  | 9686.7  | 9984.1  | 10025.4 | 9964.8  | 11226.3 | 9901.5  |
| 52.5° | 8551.9 | 8596.0 | 8824.6 | 9265.3 | 9766.5  | 10237.5 | 10645.1 | 10689.2 | 10570.8 | 11339.2 | 10033.7 |
| 55°   | 7981.8 | 7957.0 | 8328.8 | 8915.5 | 10077.8 | 11058.3 | 11650.4 | 11683.5 | 11011.4 | 11689.0 | 10466.1 |
| 57.5° | 6169.5 | 6287.9 | 6604.7 | 7312.5 | 8954.0  | 11421.8 | 12427.1 | 12308.7 | 11540.3 | 11865.3 | 10741.5 |
| 60°   | 4483.9 | 4456.4 | 4668.4 | 5142.2 | 6747.9  | 9843.6  | 11749.6 | 11870.8 | 11107.8 | 10694.7 | 8857.6  |
| 62.5° | 3652.1 | 3613.6 | 3630.1 | 3646.6 | 4354.5  | 6533.1  | 8697.9  | 8695.1  | 8554.7  | 7687.1  | 5973.9  |
| 65°   | 2919.5 | 3010.4 | 3018.6 | 3142.6 | 3233.5  | 3902.8  | 5040.3  | 5310.2  | 4624.4  | 3792.6  | 2751.5  |
| 67.5° | 2200.6 | 2167.6 | 2277.8 | 2718.4 | 2889.2  | 2817.6  | 2751.5  | 2781.8  | 1977.5  | 1426.7  | 1344.1  |
| 70°   | 1297.2 | 1283.5 | 1415.7 | 1894.9 | 2379.7  | 2239.2  | 2073.9  | 2076.7  | 1357.8  | 997.0   | 1110.0  |
| 72.5° | 710.6  | 707.8  | 735.4  | 961.2  | 1352.3  | 1404.7  | 1244.9  | 1283.5  | 809.7   | 807.0   | 867.6   |
| 75°   | 396.6  | 388.3  | 380.1  | 424.2  | 487.5   | 515.0   | 526.1   | 531.6   | 556.4   | 622.5   | 647.2   |
| 77.5° | 146.0  | 140.5  | 140.5  | 162.5  | 206.6   | 258.9   | 327.8   | 333.3   | 393.9   | 451.7   | 476.5   |
| 80°   | 49.6   | 55.1   | 74.4   | 101.9  | 137.7   | 184.5   | 223.1   | 228.6   | 278.2   | 316.7   | 325.0   |
| 82.5° | 30.3   | 33.1   | 49.6   | 71.6   | 99.2    | 129.4   | 165.3   | 168.0   | 206.6   | 231.4   | 242.4   |
| 85°   | 13.8   | 16.5   | 27.5   | 44.1   | 63.3    | 85.4    | 88.1    | 88.1    | 85.4    | 88.1    | 82.6    |
| 87.5° | 0.0    | 0.0    | 5.5    | 5.5    | 5.5     | 8.3     | 11.0    | 8.3     | 13.8    | 16.5    | 16.5    |
| 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°    | 8328.8 | 8328.8 | 8328.8 | 8328.8 | 8328.8 | 8328.8 | 8328.8 | 8328.8 | 8328.8 | 8328.8 | 8328.8 |
| 2.5°  | 8254.5 | 8224.2 | 8130.5 | 8047.9 | 8023.1 | 7912.9 | 7750.4 | 7769.7 | 7651.3 | 7706.4 | 7648.5 |
| 5°    | 8141.5 | 8039.6 | 7800.0 | 7698.1 | 7430.9 | 7309.7 | 7227.1 | 7020.6 | 6924.2 | 6904.9 | 6822.2 |
| 7.5°  | 7852.3 | 7789.0 | 7488.8 | 7213.4 | 6929.7 | 6687.3 | 6376.1 | 6164.0 | 6012.5 | 5971.2 | 5850.0 |
| 10°   | 7623.7 | 7483.3 | 7067.4 | 6648.7 | 6243.9 | 5822.5 | 5417.6 | 5100.9 | 4946.6 | 4767.6 | 4707.0 |
| 12.5° | 7397.9 | 7185.8 | 6623.9 | 6086.9 | 5563.6 | 5032.0 | 4541.7 | 4156.1 | 3820.1 | 3740.3 | 3712.7 |
| 15°   | 7257.4 | 6888.4 | 6227.3 | 5580.1 | 4836.4 | 4142.4 | 3652.1 | 3398.7 | 3192.2 | 3106.8 | 3167.4 |
| 17.5° | 7072.9 | 6643.2 | 5847.2 | 4985.2 | 4167.2 | 3528.2 | 3117.8 | 2960.8 | 2886.4 | 2894.7 | 2869.9 |
| 20°   | 6841.5 | 6411.9 | 5348.7 | 4445.3 | 3569.5 | 3060.0 | 2825.8 | 2768.0 | 2779.0 | 2798.3 | 2790.0 |
| 22.5° | 6676.3 | 6130.9 | 4987.9 | 3894.5 | 3084.7 | 2801.1 | 2704.7 | 2663.3 | 2699.2 | 2715.7 | 2701.9 |
| 25°   | 6549.6 | 5891.3 | 4550.0 | 3407.0 | 2803.8 | 2655.1 | 2611.0 | 2608.3 | 2663.3 | 2685.4 | 2671.6 |
| 27.5° | 6433.9 | 5668.2 | 4114.8 | 3035.2 | 2616.5 | 2542.2 | 2528.4 | 2561.4 | 2597.2 | 2619.3 | 2638.6 |
| 30°   | 6365.0 | 5497.5 | 3707.2 | 2723.9 | 2522.9 | 2487.1 | 2462.3 | 2492.6 | 2511.9 | 2533.9 | 2522.9 |
| 32.5° | 6431.1 | 5376.3 | 3313.3 | 2547.7 | 2445.8 | 2410.0 | 2443.0 | 2423.7 | 2456.8 | 2476.1 | 2445.8 |
| 35°   | 6637.7 | 5268.9 | 3032.4 | 2454.0 | 2357.6 | 2371.4 | 2376.9 | 2368.6 | 2382.4 | 2365.9 | 2401.7 |
| 37.5° | 6841.5 | 5230.3 | 2773.5 | 2374.2 | 2316.3 | 2316.3 | 2310.8 | 2294.3 | 2321.8 | 2316.3 | 2332.8 |
| 40°   | 7100.4 | 5255.1 | 2553.2 | 2288.8 | 2277.8 | 2272.2 | 2250.2 | 2247.5 | 2236.4 | 2239.2 | 2244.7 |
| 42.5° | 7326.3 | 5310.2 | 2426.5 | 2233.7 | 2242.0 | 2253.0 | 2211.7 | 2178.6 | 2192.4 | 2164.8 | 2164.8 |
| 45°   | 7565.9 | 5359.7 | 2313.6 | 2195.1 | 2186.9 | 2184.1 | 2151.1 | 2131.8 | 2120.8 | 2123.5 | 2148.3 |
| 47.5° | 7943.2 | 5431.4 | 2228.2 | 2142.8 | 2148.3 | 2107.0 | 2098.7 | 2073.9 | 2085.0 | 2101.5 | 2104.2 |
| 50°   | 8210.4 | 5582.8 | 2162.1 | 2082.2 | 2101.5 | 2073.9 | 2024.4 | 2013.3 | 2013.3 | 2040.9 | 2035.4 |
| 52.5° | 8397.7 | 5794.9 | 2098.7 | 2016.1 | 2024.4 | 2002.3 | 1985.8 | 1961.0 | 1944.5 | 1983.1 | 2002.3 |
| 55°   | 8970.6 | 6147.5 | 2082.2 | 1961.0 | 1958.3 | 1936.2 | 1905.9 | 1881.1 | 1872.9 | 1878.4 | 1917.0 |
| 57.5° | 8915.5 | 6037.3 | 2029.9 | 1864.6 | 1859.1 | 1828.8 | 1798.5 | 1790.3 | 1787.5 | 1793.0 | 1804.0 |
| 60°   | 7238.1 | 4459.1 | 1812.3 | 1754.5 | 1746.2 | 1740.7 | 1710.4 | 1677.3 | 1660.8 | 1677.3 | 1663.6 |
| 62.5° | 4789.6 | 2985.6 | 1597.5 | 1622.2 | 1627.8 | 1614.0 | 1564.4 | 1531.4 | 1536.9 | 1556.1 | 1525.8 |
| 65°   | 2352.1 | 1754.5 | 1448.7 | 1514.8 | 1520.3 | 1481.8 | 1435.0 | 1396.4 | 1377.1 | 1393.6 | 1379.9 |
| 67.5° | 1344.1 | 1341.3 | 1327.5 | 1396.4 | 1393.6 | 1355.1 | 1280.7 | 1247.7 | 1214.6 | 1220.1 | 1211.9 |
| 70°   | 1140.3 | 1162.3 | 1189.8 | 1231.1 | 1228.4 | 1184.3 | 1096.2 | 1071.4 | 1024.6 | 1019.1 | 1005.3 |
| 72.5° | 897.9  | 936.4  | 997.0  | 1027.3 | 1002.5 | 947.5  | 889.6  | 848.3  | 807.0  | 782.2  | 790.5  |
| 75°   | 666.5  | 721.6  | 754.7  | 773.9  | 735.4  | 705.1  | 658.3  | 608.7  | 559.1  | 537.1  | 528.8  |
| 77.5° | 484.7  | 501.3  | 531.6  | 545.3  | 520.6  | 490.3  | 462.7  | 413.1  | 366.3  | 336.0  | 327.8  |
| 80°   | 338.8  | 349.8  | 371.8  | 371.8  | 371.8  | 358.1  | 322.2  | 272.7  | 242.4  | 214.8  | 209.3  |
| 82.5° | 236.9  | 247.9  | 269.9  | 258.9  | 256.1  | 239.6  | 217.6  | 179.0  | 146.0  | 126.7  | 121.2  |
| 85°   | 82.6   | 90.9   | 110.2  | 132.2  | 140.5  | 137.7  | 123.9  | 99.2   | 77.1   | 63.3   | 57.8   |
| 87.5° | 19.3   | 19.3   | 22.0   | 19.3   | 19.3   | 22.0   | 19.3   | 19.3   | 19.3   | 13.8   | 11.0   |
| 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)