

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: P457011

Luminaire Tested: **GALN-SA8B-750-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457011  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8B-750-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37605 lumens  
Efficiency: N/A  
Efficacy: 115.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G5

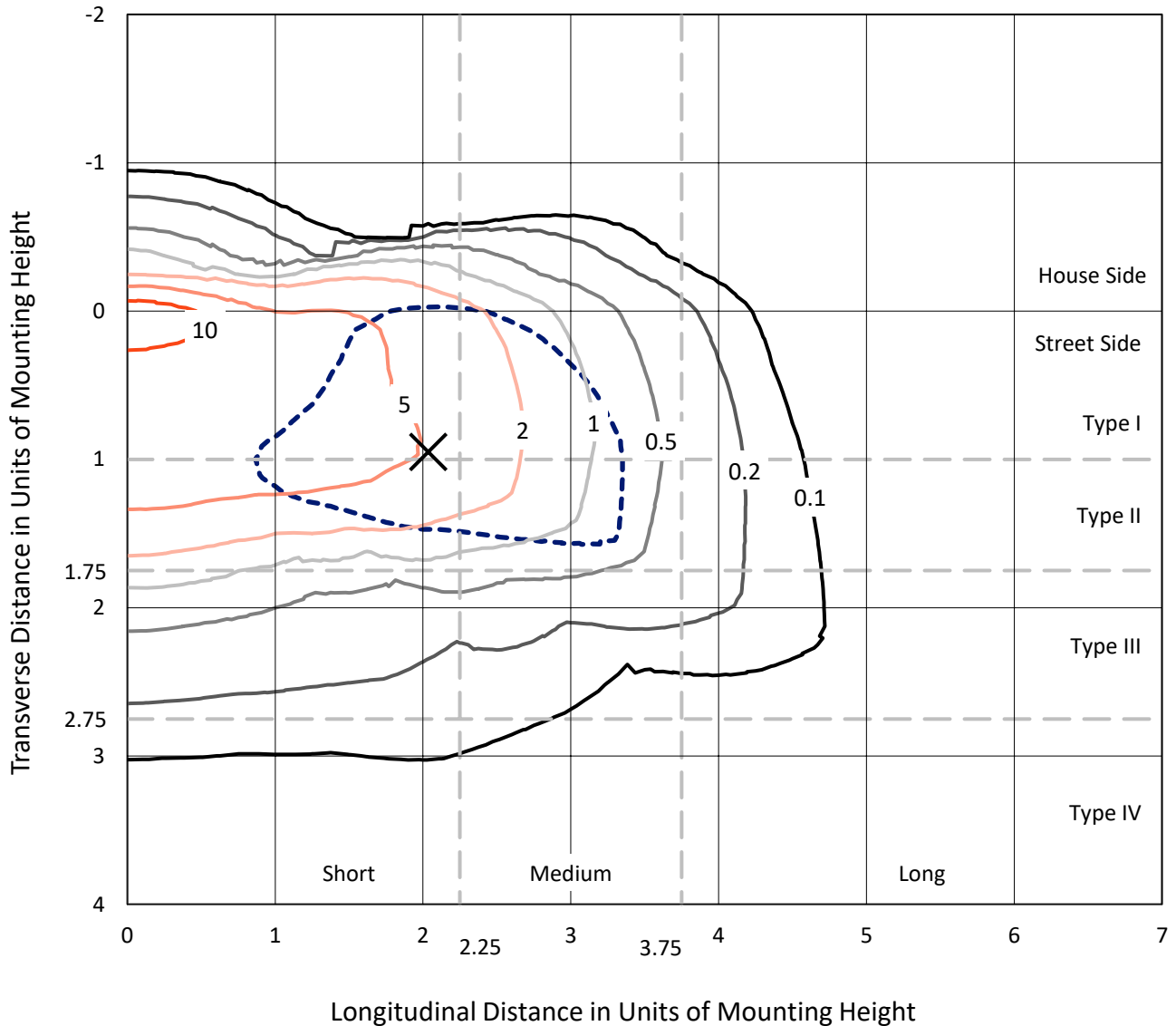
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

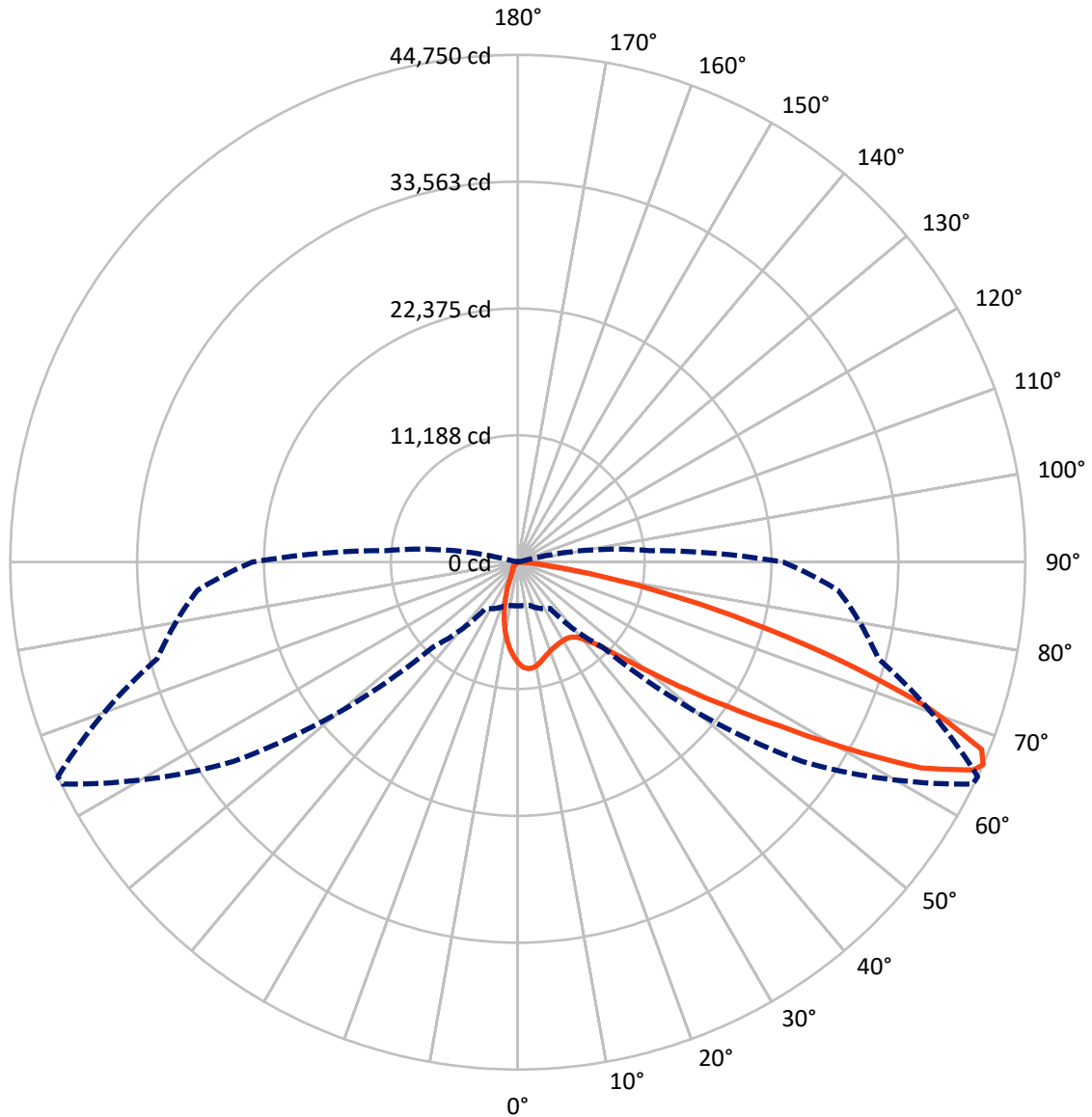
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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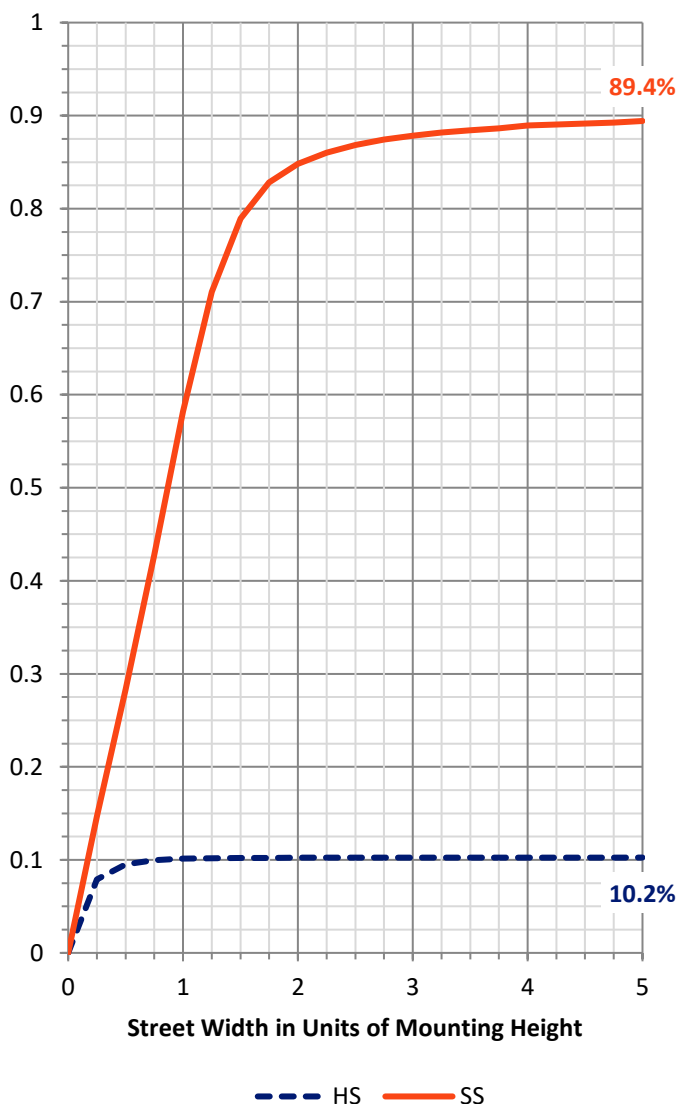
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3888.9   | 0.0    | 3888.9  |
|                    | % Fixture | 10.3     | 0.0    | 10.3    |
| <b>Street Side</b> | Lumens    | 33716.1  | 0.0    | 33716.1 |
|                    | % Fixture | 89.7     | 0.0    | 89.7    |
| <b>Total</b>       | Lumens    | 37605.0  | 0.0    | 37605.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 729.3   | 1.9       |
| 10°-20°   | 1589.1  | 4.2       |
| 20°-30°   | 2276.4  | 6.1       |
| 30°-40°   | 3324.8  | 8.8       |
| 40°-50°   | 5575.1  | 14.8      |
| 50°-60°   | 9304.0  | 24.7      |
| 60°-70°   | 9875.9  | 26.3      |
| 70°-80°   | 4472.8  | 11.9      |
| 80°-90°   | 457.7   | 1.2       |
| 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°    | 37605.0 | 100.0     |
| 0°-180°   | 37605.0 | 100.0     |

**Coefficient of Utilization**



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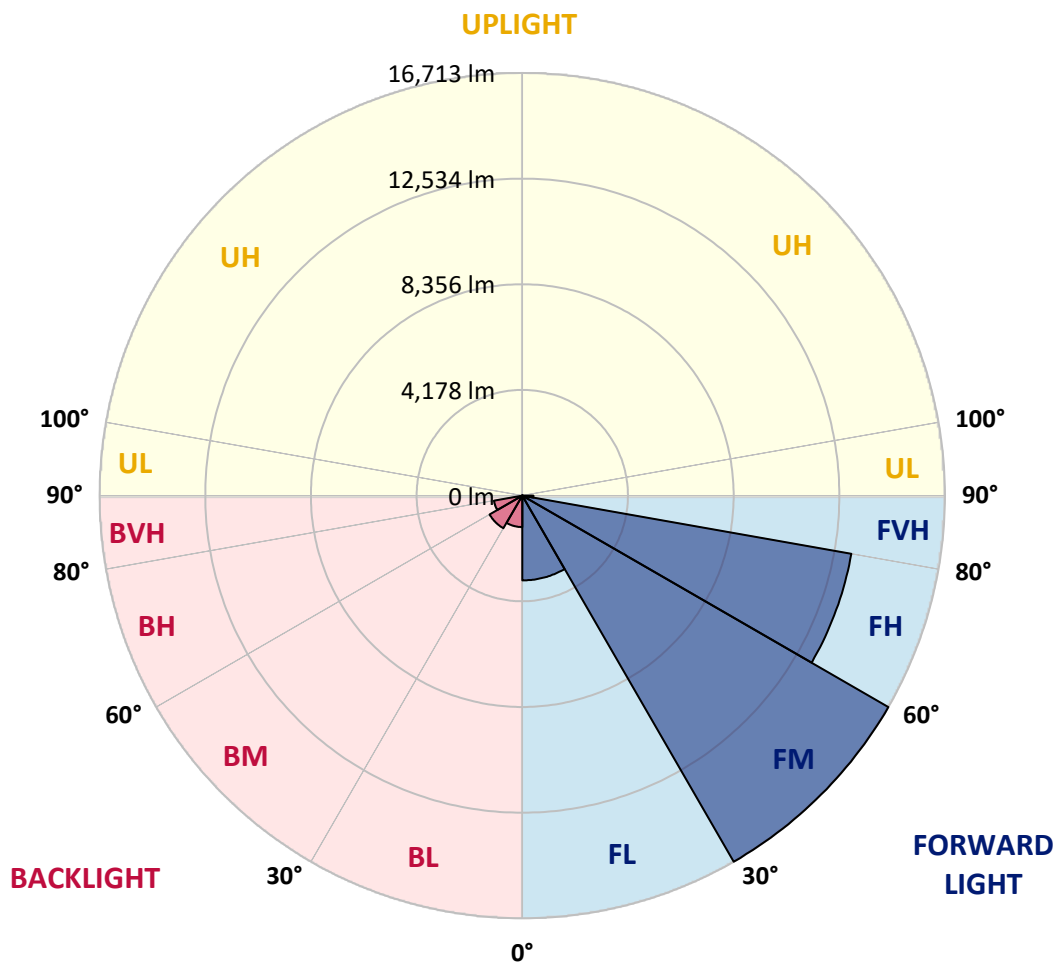
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3350.7  | 8.9       |                         |      |         |
| FM   | (30°-60°)   | 16712.5 | 44.4      |                         |      |         |
| FH   | (60°-80°)   | 13209.8 | 35.1      |                         |      | G5      |
| FVH  | (80°-90°)   | 443.1   | 1.2       |                         |      | G3/500  |
| BL   | (0°-30°)    | 1244.0  | 3.3       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 1491.4  | 4.0       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1138.9  | 3.0       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 14.6    | 0.0       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 64°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 8917.5  | 8917.5  | 8917.5  | 8917.5  | 8917.5  | 8917.5  | 8917.5  | 8917.5  | 8917.5  | 8917.5  | 8917.5  |
| 2.5°  | 9397.6  | 9407.7  | 9420.4  | 9438.2  | 9450.9  | 9412.8  | 9359.5  | 9298.5  | 9285.8  | 9156.3  | 8998.8  |
| 5°    | 8894.7  | 8909.9  | 9021.7  | 9082.6  | 9219.8  | 9344.2  | 9423.0  | 9433.1  | 9428.0  | 9306.1  | 9054.7  |
| 7.5°  | 8178.4  | 8221.6  | 8330.8  | 8437.5  | 8694.0  | 8930.2  | 9209.6  | 9405.2  | 9417.9  | 9384.9  | 9072.5  |
| 10°   | 7596.8  | 7624.7  | 7680.6  | 7891.4  | 8104.8  | 8465.4  | 8856.6  | 9224.9  | 9255.3  | 9387.4  | 9057.2  |
| 12.5° | 7142.2  | 7182.8  | 7251.4  | 7413.9  | 7670.4  | 8010.8  | 8455.3  | 8950.6  | 9014.0  | 9339.2  | 9014.0  |
| 15°   | 6824.7  | 6845.0  | 6913.6  | 7073.6  | 7322.5  | 7637.4  | 8087.0  | 8663.5  | 8719.4  | 9275.7  | 9006.4  |
| 17.5° | 6674.8  | 6697.7  | 6745.9  | 6872.9  | 7078.7  | 7370.7  | 7810.1  | 8432.4  | 8503.5  | 9235.0  | 9034.4  |
| 20°   | 6715.5  | 6735.8  | 6738.3  | 6804.3  | 6944.0  | 7190.4  | 7607.0  | 8216.5  | 8308.0  | 9209.6  | 9080.1  |
| 22.5° | 6946.6  | 6949.1  | 6918.6  | 6888.2  | 6936.4  | 7114.2  | 7482.5  | 8079.4  | 8173.3  | 9204.5  | 9133.4  |
| 25°   | 7292.0  | 7299.6  | 7248.8  | 7142.2  | 7045.6  | 7137.1  | 7454.6  | 7990.5  | 8074.3  | 9191.8  | 9166.4  |
| 27.5° | 7769.5  | 7767.0  | 7751.7  | 7573.9  | 7299.6  | 7238.7  | 7477.4  | 7942.2  | 8013.3  | 9156.3  | 9179.1  |
| 30°   | 8437.5  | 8417.2  | 8384.2  | 8183.5  | 7764.4  | 7485.0  | 7573.9  | 7911.7  | 7977.8  | 9105.5  | 9146.1  |
| 32.5° | 9095.3  | 9171.5  | 9166.4  | 8975.9  | 8452.7  | 7924.4  | 7774.6  | 7952.4  | 8000.6  | 9072.5  | 9097.9  |
| 35°   | 9862.4  | 9859.8  | 10055.4 | 9984.3  | 9372.2  | 8485.8  | 8117.5  | 8087.0  | 8125.1  | 9095.3  | 9075.0  |
| 37.5° | 10573.5 | 10639.6 | 10944.4 | 11018.0 | 10459.2 | 9278.2  | 8602.6  | 8376.5  | 8389.2  | 9250.3  | 9130.9  |
| 40°   | 11460.0 | 11587.0 | 12041.6 | 12288.0 | 11795.2 | 10454.2 | 9318.8  | 8907.4  | 8909.9  | 9631.2  | 9341.7  |
| 42.5° | 12602.9 | 12803.6 | 13227.7 | 13639.2 | 13375.0 | 11846.0 | 10393.2 | 9748.1  | 9743.0  | 10301.8 | 9824.3  |
| 45°   | 13992.2 | 14131.9 | 14614.5 | 15267.2 | 15099.6 | 13789.0 | 11957.8 | 11051.0 | 10985.0 | 11401.5 | 10680.2 |
| 47.5° | 15191.0 | 15381.5 | 15871.7 | 16615.9 | 17377.9 | 16161.3 | 13827.1 | 12841.7 | 12798.5 | 13151.5 | 12148.3 |
| 50°   | 15714.3 | 15881.9 | 16397.5 | 17441.4 | 19287.9 | 19275.2 | 16610.8 | 15455.2 | 15381.5 | 15572.0 | 14418.9 |
| 52.5° | 15140.2 | 15297.7 | 15818.4 | 17118.8 | 20187.0 | 23069.8 | 20644.2 | 18734.2 | 18645.3 | 18401.5 | 17131.5 |
| 55°   | 13174.4 | 13303.9 | 14073.5 | 15566.9 | 19841.6 | 25599.5 | 26201.4 | 22785.3 | 22439.9 | 21492.5 | 20202.2 |
| 57.5° | 10489.7 | 10423.7 | 10901.2 | 12635.9 | 17814.7 | 26447.8 | 31906.0 | 27832.0 | 27214.9 | 24164.5 | 22800.5 |
| 60°   | 7269.1  | 7472.3  | 7665.4  | 8808.3  | 13395.3 | 24977.2 | 35454.2 | 34176.7 | 33363.9 | 26793.2 | 25289.6 |
| 62.5° | 5343.9  | 5478.5  | 5605.5  | 6133.8  | 8422.3  | 19943.2 | 36081.6 | 40694.0 | 39972.7 | 29584.6 | 27664.4 |
| 65°   | 4226.4  | 4236.5  | 4287.3  | 4808.0  | 5549.6  | 12968.6 | 33066.7 | 44369.2 | 44183.8 | 32271.8 | 28627.0 |
| 66°   | 3850.5  | 3853.0  | 3931.7  | 4490.5  | 4980.7  | 10560.8 | 30651.3 | 44648.6 | 44750.2 | 32916.9 | 28345.1 |
| 67.5° | 3365.3  | 3355.2  | 3469.5  | 4035.9  | 4536.2  | 7614.6  | 26328.4 | 43515.8 | 44117.8 | 33412.2 | 27331.7 |
| 70°   | 2608.5  | 2595.8  | 2735.5  | 3385.7  | 4178.1  | 5079.8  | 17499.8 | 37364.2 | 38334.5 | 32398.8 | 24182.2 |
| 72.5° | 1737.3  | 1747.4  | 1986.2  | 2672.0  | 3987.6  | 4472.7  | 10527.8 | 28423.8 | 29795.4 | 26755.1 | 19023.7 |
| 75°   | 1013.4  | 1031.2  | 1303.0  | 1986.2  | 3461.9  | 4264.5  | 5958.6  | 20268.3 | 21144.5 | 18475.1 | 11851.1 |
| 77.5° | 530.8   | 538.5   | 728.9   | 1310.6  | 2654.2  | 3959.7  | 3969.8  | 12948.3 | 13359.8 | 8978.5  | 4691.2  |
| 80°   | 281.9   | 274.3   | 391.1   | 789.9   | 1826.2  | 3477.1  | 3220.6  | 6855.1  | 7126.9  | 2666.9  | 1186.1  |
| 82.5° | 106.7   | 116.8   | 208.3   | 518.1   | 1079.5  | 2496.7  | 2773.6  | 3030.1  | 2936.1  | 586.7   | 497.8   |
| 85°   | 20.3    | 25.4    | 88.9    | 307.3   | 543.5   | 1043.9  | 2044.6  | 1485.8  | 1376.6  | 221.0   | 287.0   |
| 87.5° | 2.5     | 5.1     | 25.4    | 73.7    | 78.7    | 353.0   | 604.5   | 411.5   | 355.6   | 81.3    | 119.4   |
| 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°    | 8917.5  | 8917.5  | 8917.5 | 8917.5 | 8917.5 | 8917.5 | 8917.5 | 8917.5 | 8917.5 | 8917.5 | 8917.5 |
| 2.5°  | 8922.6  | 8854.0  | 8625.4 | 8399.4 | 8168.3 | 7960.0 | 7817.8 | 7586.6 | 7528.2 | 7444.4 | 7396.1 |
| 5°    | 8904.8  | 8744.8  | 8305.4 | 7825.4 | 7378.4 | 6895.8 | 6527.5 | 6171.9 | 5981.4 | 5884.9 | 5849.4 |
| 7.5°  | 8854.0  | 8600.0  | 7914.3 | 7162.5 | 6446.2 | 5724.9 | 5097.5 | 4620.0 | 4312.7 | 4101.9 | 3959.7 |
| 10°   | 8752.4  | 8401.9  | 7459.6 | 6425.9 | 5343.9 | 4391.5 | 3596.5 | 2992.0 | 2524.6 | 2377.3 | 2382.4 |
| 12.5° | 8648.3  | 8181.0  | 6951.7 | 5608.1 | 4267.0 | 3065.6 | 2222.4 | 1744.9 | 1521.4 | 1447.7 | 1432.5 |
| 15°   | 8551.8  | 7970.2  | 6453.8 | 4815.6 | 3177.4 | 1986.2 | 1432.5 | 1264.9 | 1203.9 | 1191.2 | 1188.7 |
| 17.5° | 8501.0  | 7774.6  | 5923.0 | 3908.9 | 2217.3 | 1348.7 | 1148.0 | 1102.3 | 1084.5 | 1071.8 | 1066.8 |
| 20°   | 8457.8  | 7604.4  | 5415.0 | 3060.6 | 1516.3 | 1104.8 | 1028.7 | 985.5  | 955.0  | 942.3  | 934.7  |
| 22.5° | 8427.3  | 7429.2  | 4889.3 | 2369.7 | 1160.7 | 980.4  | 911.8  | 855.9  | 812.8  | 797.5  | 787.4  |
| 25°   | 8381.6  | 7236.1  | 4358.4 | 1732.2 | 977.9  | 871.2  | 792.4  | 726.4  | 670.5  | 642.6  | 637.5  |
| 27.5° | 8315.6  | 7017.7  | 3776.8 | 1282.6 | 873.7  | 774.7  | 678.1  | 596.9  | 541.0  | 510.5  | 513.1  |
| 30°   | 8208.9  | 6789.1  | 3195.2 | 1018.5 | 789.9  | 675.6  | 571.5  | 492.7  | 439.4  | 416.5  | 414.0  |
| 32.5° | 8081.9  | 6512.3  | 2661.8 | 873.7  | 713.7  | 586.7  | 477.5  | 408.9  | 368.3  | 350.5  | 348.0  |
| 35°   | 7962.5  | 6232.9  | 2118.3 | 784.8  | 635.0  | 505.4  | 401.3  | 342.9  | 312.4  | 297.2  | 299.7  |
| 37.5° | 7896.5  | 5984.0  | 1650.9 | 713.7  | 571.5  | 434.3  | 345.4  | 294.6  | 266.7  | 254.0  | 251.4  |
| 40°   | 7939.7  | 5780.8  | 1313.1 | 650.2  | 500.4  | 373.4  | 297.2  | 254.0  | 226.0  | 208.3  | 208.3  |
| 42.5° | 8142.9  | 5691.9  | 1059.1 | 589.3  | 434.3  | 322.6  | 259.1  | 218.4  | 188.0  | 170.2  | 172.7  |
| 45°   | 8762.6  | 5785.9  | 886.4  | 533.4  | 373.4  | 279.4  | 223.5  | 180.3  | 152.4  | 139.7  | 137.2  |
| 47.5° | 9791.3  | 6138.9  | 767.0  | 475.0  | 320.0  | 238.7  | 188.0  | 149.9  | 121.9  | 111.8  | 109.2  |
| 50°   | 11589.5 | 6867.8  | 678.1  | 416.5  | 271.8  | 203.2  | 154.9  | 119.4  | 96.5   | 86.4   | 86.4   |
| 52.5° | 14063.3 | 8457.8  | 614.7  | 350.5  | 228.6  | 172.7  | 127.0  | 96.5   | 76.2   | 68.6   | 66.0   |
| 55°   | 16648.9 | 10134.1 | 581.6  | 294.6  | 190.5  | 142.2  | 101.6  | 76.2   | 58.4   | 50.8   | 48.3   |
| 57.5° | 19135.5 | 11449.8 | 543.5  | 238.7  | 152.4  | 109.2  | 78.7   | 58.4   | 40.6   | 35.6   | 33.0   |
| 60°   | 21520.4 | 12514.0 | 462.3  | 190.5  | 119.4  | 78.7   | 58.4   | 40.6   | 27.9   | 22.9   | 22.9   |
| 62.5° | 23653.9 | 13133.7 | 363.2  | 152.4  | 91.4   | 55.9   | 38.1   | 30.5   | 20.3   | 15.2   | 15.2   |
| 65°   | 23902.8 | 12328.6 | 274.3  | 116.8  | 66.0   | 35.6   | 22.9   | 22.9   | 15.2   | 10.2   | 10.2   |
| 66°   | 23402.5 | 11645.4 | 241.3  | 106.7  | 58.4   | 30.5   | 20.3   | 17.8   | 12.7   | 7.6    | 7.6    |
| 67.5° | 22284.9 | 10479.6 | 208.3  | 91.4   | 48.3   | 22.9   | 15.2   | 15.2   | 10.2   | 5.1    | 5.1    |
| 70°   | 19254.9 | 8559.4  | 165.1  | 68.6   | 35.6   | 17.8   | 10.2   | 10.2   | 7.6    | 5.1    | 5.1    |
| 72.5° | 14675.4 | 6390.3  | 134.6  | 50.8   | 25.4   | 12.7   | 7.6    | 7.6    | 7.6    | 5.1    | 5.1    |
| 75°   | 8851.5  | 3441.5  | 104.1  | 38.1   | 22.9   | 10.2   | 5.1    | 7.6    | 10.2   | 7.6    | 5.1    |
| 77.5° | 3261.2  | 1170.9  | 81.3   | 30.5   | 17.8   | 10.2   | 5.1    | 5.1    | 10.2   | 7.6    | 7.6    |
| 80°   | 800.1   | 304.8   | 58.4   | 25.4   | 17.8   | 10.2   | 5.1    | 5.1    | 10.2   | 10.2   | 10.2   |
| 82.5° | 370.8   | 129.5   | 40.6   | 22.9   | 17.8   | 10.2   | 5.1    | 5.1    | 7.6    | 10.2   | 10.2   |
| 85°   | 213.4   | 61.0    | 33.0   | 25.4   | 17.8   | 10.2   | 5.1    | 5.1    | 7.6    | 10.2   | 10.2   |
| 87.5° | 86.4    | 30.5    | 30.5   | 25.4   | 20.3   | 12.7   | 5.1    | 5.1    | 5.1    | 7.6    | 7.6    |
| 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)