

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: P532922

Luminaire Tested: **GALN-SA8B-740-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532922  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8B-740-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40377 lumens  
Efficiency: N/A  
Efficacy: 124.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

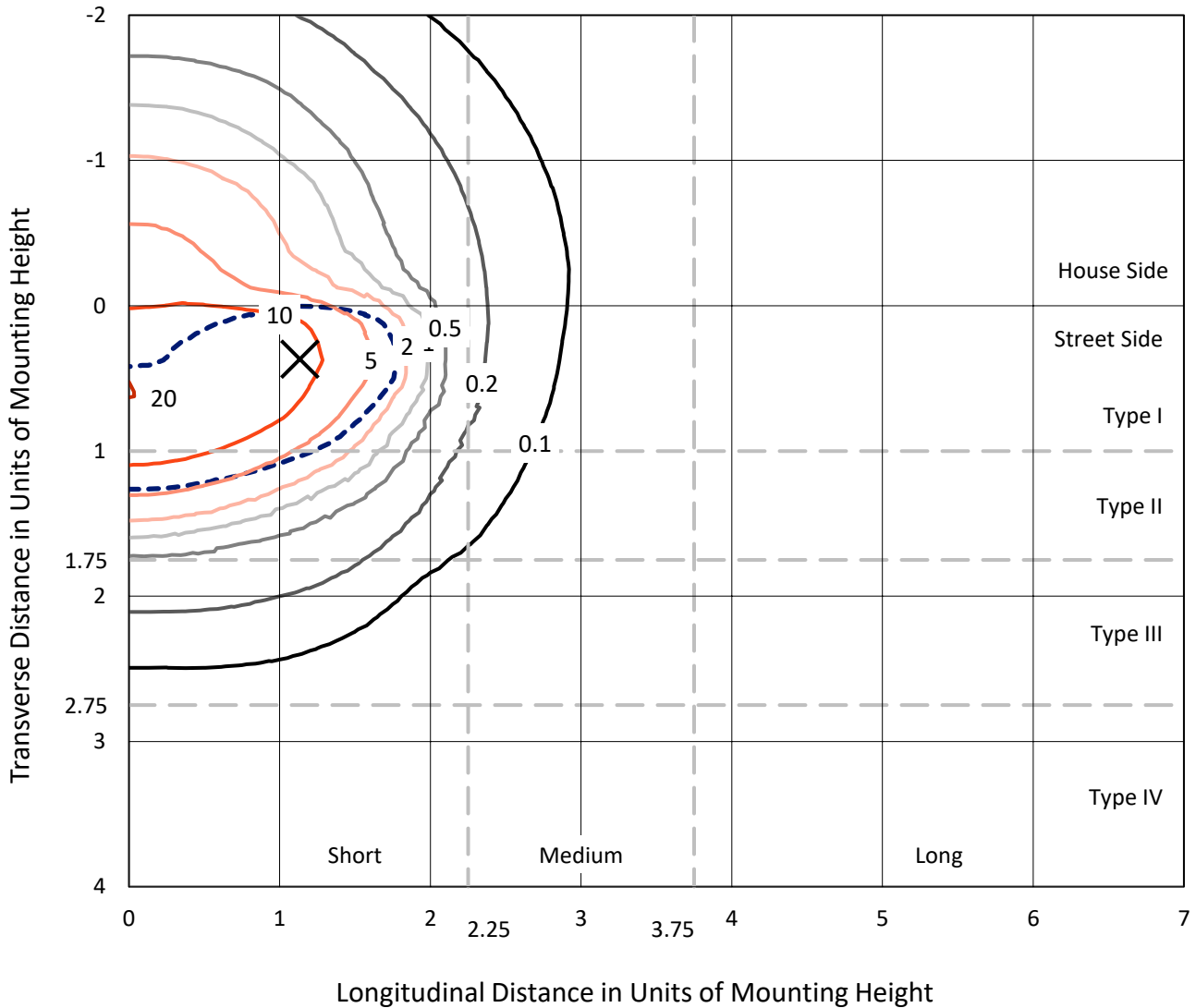
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

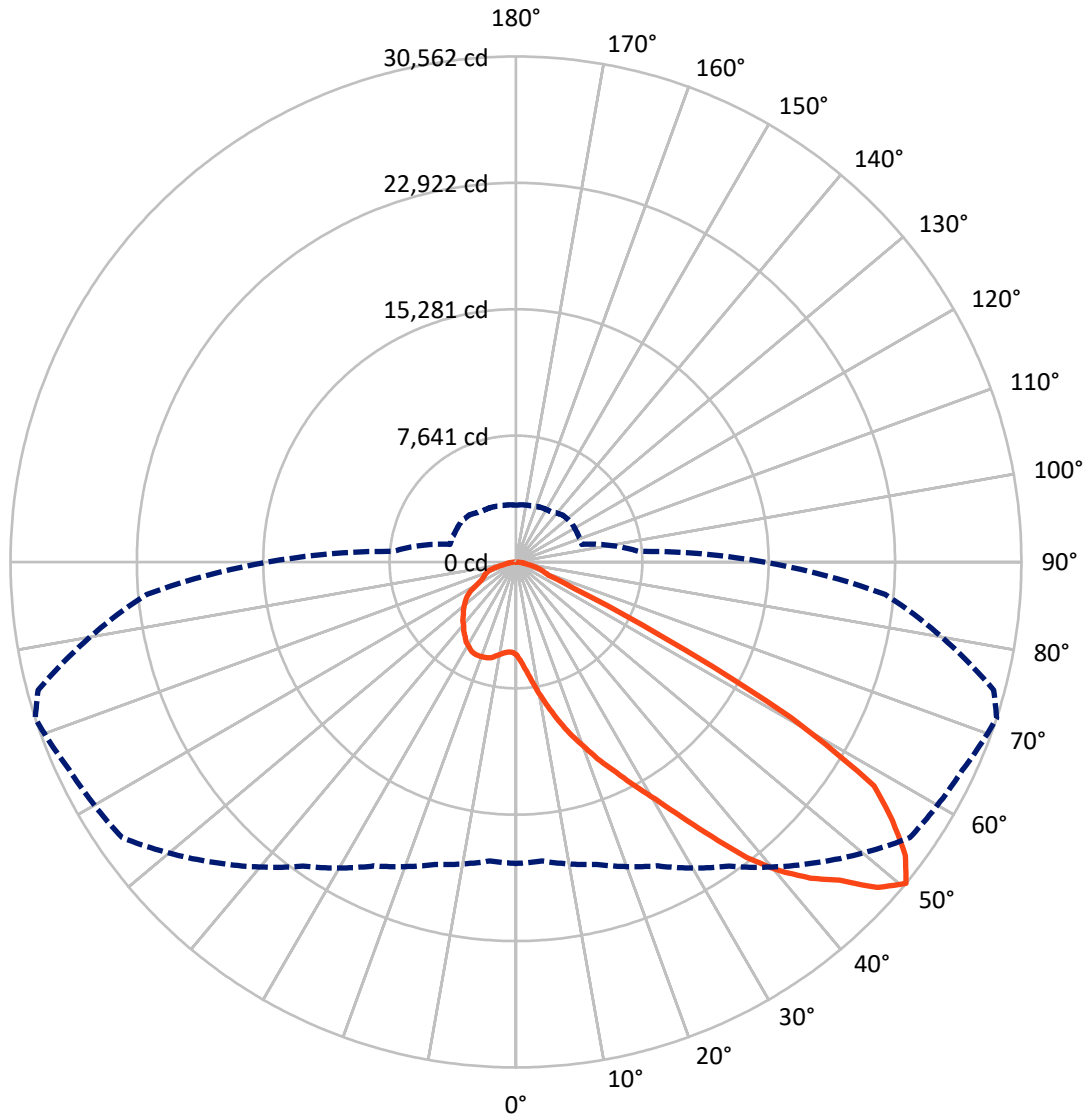
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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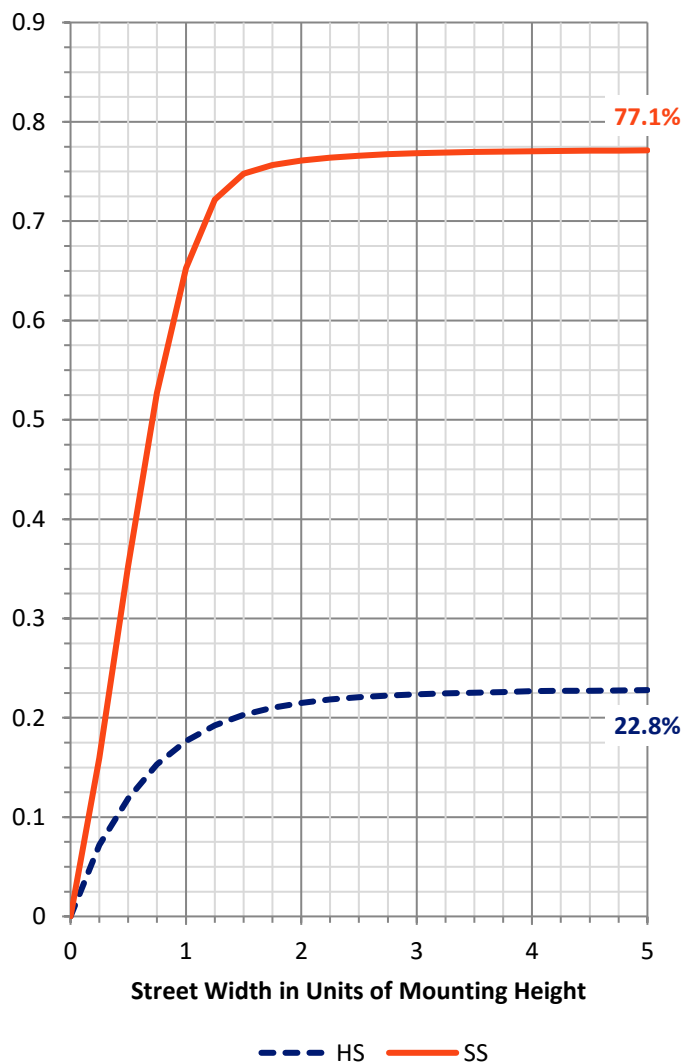
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 9250.6   | 0.0    | 9250.6  |
|                    | % Fixture | 22.9     | 0.0    | 22.9    |
| <b>Street Side</b> | Lumens    | 31126.4  | 0.0    | 31126.4 |
|                    | % Fixture | 77.1     | 0.0    | 77.1    |
| <b>Total</b>       | Lumens    | 40377.0  | 0.0    | 40377.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 661.1   | 1.6       |
| 10°-20°   | 2471.6  | 6.1       |
| 20°-30°   | 4792.3  | 11.9      |
| 30°-40°   | 7939.1  | 19.7      |
| 40°-50°   | 11108.6 | 27.5      |
| 50°-60°   | 9371.5  | 23.2      |
| 60°-70°   | 2856.4  | 7.1       |
| 70°-80°   | 1002.1  | 2.5       |
| 80°-90°   | 174.2   | 0.4       |
| 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°    | 40377.0 | 100.0     |
| 0°-180°   | 40377.0 | 100.0     |

**Coefficient of Utilization**



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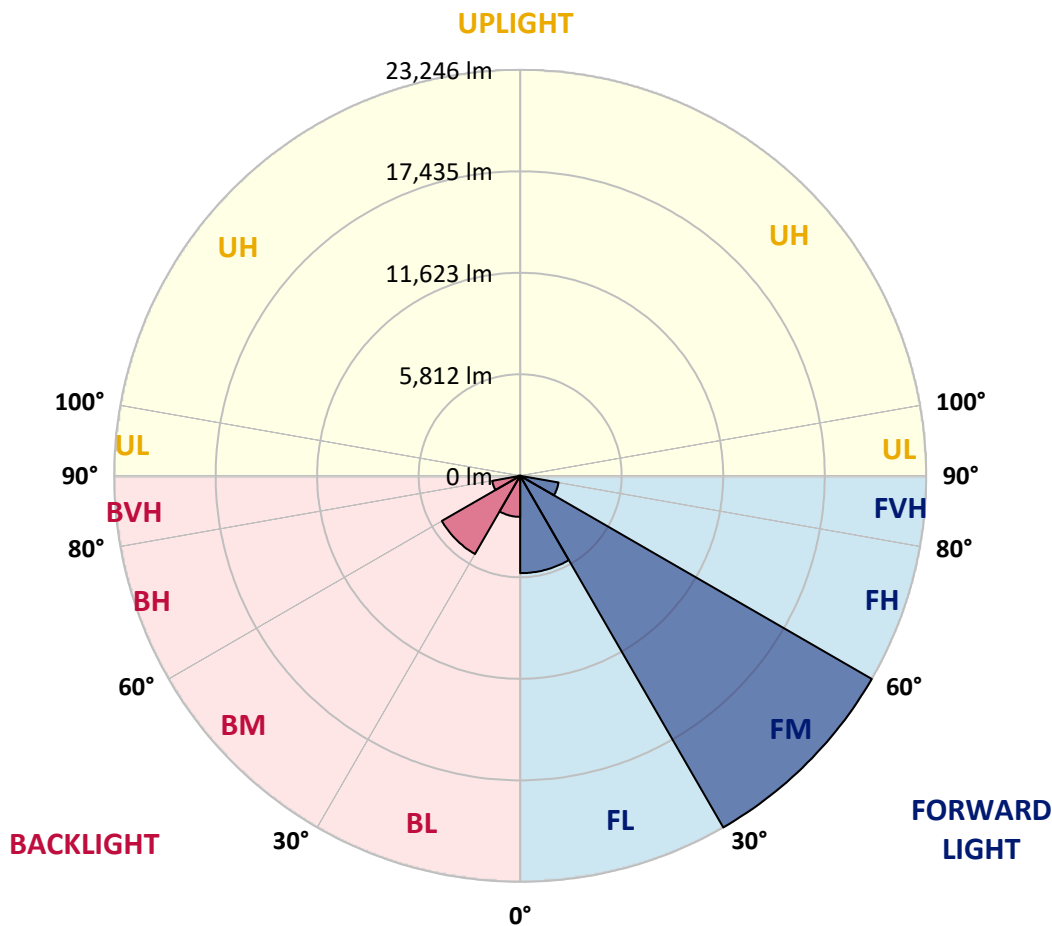
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 5573.5  | 13.8      |                         |      |         |
| FM (30°-60°)   | 23246.1 | 57.6      |                         |      |         |
| FH (60°-80°)   | 2228.7  | 5.5       |                         |      | G2/5000 |
| FVH (80°-90°)  | 78.0    | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 2351.5  | 5.8       | B3/2500                 |      |         |
| BM (30°-60°)   | 5173.1  | 12.8      | B4/8500                 |      |         |
| BH (60°-80°)   | 1629.8  | 4.0       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 96.2    | 0.2       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 72°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5620.8  | 5620.8  | 5620.8  | 5620.8  | 5620.8  | 5620.8  | 5620.8  | 5620.8  | 5620.8  | 5620.8  | 5620.8  |
| 2.5°  | 7229.6  | 7184.7  | 7049.8  | 7004.8  | 6844.9  | 6555.1  | 6455.2  | 6160.4  | 6035.5  | 5920.6  | 5785.7  |
| 5°    | 9143.2  | 8933.4  | 8918.4  | 8663.6  | 8293.8  | 8079.0  | 7439.5  | 7009.8  | 6615.1  | 6415.2  | 6045.5  |
| 7.5°  | 10362.3 | 10367.3 | 10367.3 | 10157.5 | 9862.7  | 9318.1  | 8743.5  | 7969.1  | 7374.5  | 7079.7  | 6450.2  |
| 10°   | 11521.4 | 11421.5 | 11366.6 | 11346.6 | 11146.7 | 10617.1 | 10002.6 | 9043.3  | 8228.9  | 7884.1  | 6755.0  |
| 12.5° | 12340.8 | 12255.9 | 12380.8 | 12315.8 | 12171.0 | 11826.2 | 11246.6 | 10152.5 | 9133.2  | 8668.6  | 7244.6  |
| 15°   | 12730.5 | 12790.5 | 12890.4 | 13070.3 | 13005.3 | 12875.4 | 12235.9 | 11291.6 | 10107.5 | 9582.9  | 7679.3  |
| 17.5° | 13330.1 | 13165.2 | 13285.1 | 13510.0 | 13689.8 | 13629.9 | 13265.1 | 12116.0 | 11071.8 | 10427.3 | 8263.9  |
| 20°   | 13749.8 | 13654.9 | 13714.8 | 13974.6 | 14109.5 | 14449.3 | 14259.4 | 13195.2 | 11996.1 | 11316.6 | 8953.3  |
| 22.5° | 14948.9 | 14809.0 | 14614.1 | 14654.1 | 14704.1 | 14943.9 | 14988.9 | 14379.3 | 13070.3 | 12350.8 | 9607.9  |
| 25°   | 16427.8 | 16297.9 | 16068.1 | 15833.2 | 15688.3 | 15643.4 | 15798.3 | 15308.6 | 14099.5 | 13355.1 | 10312.3 |
| 27.5° | 18056.6 | 17836.7 | 17691.9 | 17207.2 | 16817.5 | 16757.5 | 16682.6 | 16417.8 | 15318.6 | 14514.2 | 11106.7 |
| 30°   | 19640.4 | 19465.5 | 19270.7 | 18496.3 | 18091.6 | 18026.6 | 17656.9 | 17731.8 | 16642.6 | 15748.3 | 12006.1 |
| 32.5° | 20839.5 | 20854.5 | 20409.8 | 19825.3 | 19445.5 | 19100.8 | 18965.9 | 19180.7 | 18341.4 | 17621.9 | 13010.3 |
| 35°   | 21808.8 | 21853.8 | 21429.1 | 20899.5 | 20489.8 | 20729.6 | 20669.6 | 20769.6 | 20369.9 | 19490.5 | 14179.5 |
| 37.5° | 22753.1 | 22528.3 | 22073.6 | 21818.8 | 21603.9 | 21998.7 | 22508.3 | 22593.2 | 22668.2 | 21633.9 | 15538.5 |
| 40°   | 22908.0 | 22928.0 | 22663.2 | 22843.0 | 22573.2 | 23167.8 | 24351.9 | 24242.0 | 24546.8 | 23642.4 | 17012.4 |
| 42.5° | 22688.1 | 22733.1 | 22838.0 | 23092.8 | 23742.4 | 24456.8 | 26215.5 | 25765.9 | 26135.6 | 25331.2 | 18446.3 |
| 45°   | 22328.4 | 22143.5 | 22273.4 | 23242.7 | 24366.9 | 25955.7 | 27919.3 | 27569.5 | 27449.6 | 26775.1 | 20155.0 |
| 47.5° | 20609.7 | 20799.5 | 21204.2 | 22398.4 | 24087.1 | 26215.5 | 29128.4 | 29048.4 | 29408.1 | 28933.5 | 21708.9 |
| 50°   | 18226.5 | 18151.5 | 18930.9 | 20274.9 | 22453.3 | 25705.9 | 29063.4 | 29787.9 | 30562.3 | 29902.8 | 22403.4 |
| 52.5° | 13649.9 | 14049.6 | 14719.1 | 16387.8 | 19495.5 | 22928.0 | 27644.5 | 28853.6 | 29483.1 | 29343.2 | 21843.8 |
| 55°   | 8628.6  | 8748.5  | 9153.2  | 11136.7 | 13934.6 | 18401.3 | 23697.4 | 26500.3 | 27624.5 | 28149.1 | 21329.1 |
| 57.5° | 4191.9  | 3967.1  | 4461.7  | 6055.5  | 8049.0  | 12375.8 | 18276.4 | 23082.8 | 25526.0 | 26475.3 | 20210.0 |
| 60°   | 2188.4  | 2273.3  | 2468.2  | 3037.7  | 4161.9  | 6425.2  | 11391.5 | 15383.6 | 19115.8 | 20574.7 | 15318.6 |
| 62.5° | 1813.7  | 1843.6  | 1973.5  | 2258.3  | 2767.9  | 3697.3  | 5815.7  | 7499.4  | 9747.8  | 11061.8 | 8713.5  |
| 65°   | 1538.9  | 1553.8  | 1693.7  | 1883.6  | 2208.4  | 2603.1  | 2992.8  | 3132.7  | 3792.2  | 3892.1  | 3097.7  |
| 67.5° | 1284.0  | 1299.0  | 1448.9  | 1628.8  | 1838.6  | 1943.6  | 2043.5  | 2033.5  | 2108.4  | 2078.5  | 2073.5  |
| 70°   | 989.3   | 1004.3  | 1159.1  | 1349.0  | 1453.9  | 1394.0  | 1703.7  | 1773.7  | 1803.7  | 1828.6  | 1868.6  |
| 72.5° | 714.5   | 744.4   | 864.4   | 999.3   | 944.3   | 1084.2  | 1404.0  | 1508.9  | 1548.8  | 1563.8  | 1613.8  |
| 75°   | 519.6   | 529.6   | 559.6   | 519.6   | 599.6   | 754.4   | 989.3   | 1119.2  | 1169.1  | 1184.1  | 1259.1  |
| 77.5° | 229.8   | 234.8   | 239.8   | 299.8   | 384.7   | 469.7   | 589.6   | 694.5   | 764.4   | 784.4   | 804.4   |
| 80°   | 119.9   | 124.9   | 154.9   | 204.8   | 274.8   | 344.7   | 429.7   | 489.6   | 534.6   | 539.6   | 559.6   |
| 82.5° | 74.9    | 79.9    | 109.9   | 144.9   | 194.9   | 254.8   | 314.8   | 364.7   | 399.7   | 404.7   | 409.7   |
| 85°   | 35.0    | 45.0    | 65.0    | 89.9    | 129.9   | 164.9   | 169.9   | 144.9   | 154.9   | 159.9   | 149.9   |
| 87.5° | 10.0    | 15.0    | 20.0    | 15.0    | 20.0    | 20.0    | 25.0    | 30.0    | 30.0    | 30.0    | 35.0    |
| 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°    | 5620.8  | 5620.8 | 5620.8 | 5620.8 | 5620.8 | 5620.8 | 5620.8 | 5620.8 | 5620.8 | 5620.8 | 5620.8 |
| 2.5°  | 5710.8  | 5665.8 | 5490.9 | 5426.0 | 5256.1 | 5286.1 | 5196.1 | 5191.1 | 5171.2 | 5166.2 | 5161.2 |
| 5°    | 5850.7  | 5710.8 | 5500.9 | 5341.0 | 5246.1 | 5236.1 | 5171.2 | 5171.2 | 5191.1 | 5206.1 | 5171.2 |
| 7.5°  | 6080.5  | 5920.6 | 5565.9 | 5416.0 | 5331.0 | 5316.0 | 5271.1 | 5236.1 | 5281.1 | 5266.1 | 5226.1 |
| 10°   | 6345.3  | 6065.5 | 5690.8 | 5560.9 | 5421.0 | 5386.0 | 5386.0 | 5401.0 | 5326.0 | 5351.0 | 5311.1 |
| 12.5° | 6640.1  | 6265.3 | 5850.7 | 5700.8 | 5535.9 | 5515.9 | 5505.9 | 5396.0 | 5436.0 | 5416.0 | 5316.0 |
| 15°   | 7014.8  | 6495.2 | 6055.5 | 5800.7 | 5660.8 | 5570.9 | 5441.0 | 5421.0 | 5396.0 | 5346.0 | 5301.1 |
| 17.5° | 7419.5  | 6745.0 | 6150.4 | 5830.7 | 5620.8 | 5555.9 | 5455.9 | 5351.0 | 5276.1 | 5286.1 | 5251.1 |
| 20°   | 7764.2  | 6974.8 | 6185.4 | 5860.6 | 5590.8 | 5465.9 | 5311.1 | 5246.1 | 5166.2 | 5161.2 | 5156.2 |
| 22.5° | 8173.9  | 7284.6 | 6235.4 | 5780.7 | 5500.9 | 5371.0 | 5266.1 | 5151.2 | 5096.2 | 5026.3 | 5061.2 |
| 25°   | 8663.6  | 7404.5 | 6245.4 | 5735.7 | 5436.0 | 5206.1 | 5151.2 | 5026.3 | 5006.3 | 4906.4 | 4926.3 |
| 27.5° | 9018.3  | 7469.4 | 6165.4 | 5595.8 | 5286.1 | 5111.2 | 5011.3 | 4921.3 | 4886.4 | 4811.4 | 4791.4 |
| 30°   | 9492.9  | 7569.4 | 5995.5 | 5421.0 | 5136.2 | 4941.3 | 4881.4 | 4861.4 | 4761.5 | 4681.5 | 4671.5 |
| 32.5° | 10032.5 | 7634.3 | 5885.6 | 5241.1 | 4981.3 | 4831.4 | 4861.4 | 4766.5 | 4641.6 | 4571.6 | 4551.6 |
| 35°   | 10462.2 | 7659.3 | 5610.8 | 5036.3 | 4876.4 | 4781.4 | 4746.5 | 4726.5 | 4546.6 | 4481.7 | 4431.7 |
| 37.5° | 11116.7 | 7604.3 | 5381.0 | 4891.4 | 4761.5 | 4726.5 | 4696.5 | 4561.6 | 4356.8 | 4261.8 | 4191.9 |
| 40°   | 11881.2 | 7589.4 | 5086.2 | 4686.5 | 4651.5 | 4691.5 | 4601.6 | 4391.7 | 4106.9 | 4002.0 | 3952.1 |
| 42.5° | 12615.6 | 7694.3 | 4901.4 | 4576.6 | 4531.6 | 4546.6 | 4421.7 | 4106.9 | 3967.1 | 3907.1 | 3827.2 |
| 45°   | 13844.7 | 7914.1 | 4596.6 | 4406.7 | 4386.7 | 4376.7 | 4226.9 | 3897.1 | 3817.2 | 3742.2 | 3727.2 |
| 47.5° | 14953.9 | 7769.2 | 4401.7 | 4231.9 | 4251.8 | 4196.9 | 3877.1 | 3772.2 | 3682.3 | 3607.3 | 3582.3 |
| 50°   | 15018.8 | 7424.5 | 4126.9 | 4097.0 | 4102.0 | 4007.0 | 3702.2 | 3632.3 | 3517.4 | 3467.4 | 3432.4 |
| 52.5° | 14679.1 | 6859.9 | 3872.1 | 3882.1 | 3897.1 | 3742.2 | 3487.4 | 3437.4 | 3342.5 | 3272.6 | 3252.6 |
| 55°   | 13724.8 | 5980.6 | 3622.3 | 3662.3 | 3702.2 | 3407.5 | 3327.5 | 3202.6 | 3127.7 | 3027.7 | 3032.7 |
| 57.5° | 12091.0 | 4816.4 | 3272.6 | 3337.5 | 3422.5 | 3097.7 | 3037.7 | 2882.9 | 2772.9 | 2693.0 | 2683.0 |
| 60°   | 8104.0  | 3427.5 | 2748.0 | 2772.9 | 2962.8 | 2832.9 | 2827.9 | 2673.0 | 2523.1 | 2453.2 | 2413.2 |
| 62.5° | 4781.4  | 2618.1 | 2373.2 | 2348.3 | 2343.3 | 2418.2 | 2543.1 | 2488.2 | 2293.3 | 2158.4 | 2198.4 |
| 65°   | 2503.1  | 2263.3 | 2208.4 | 2123.4 | 2073.5 | 2053.5 | 2148.4 | 2173.4 | 2043.5 | 1898.6 | 1888.6 |
| 67.5° | 2103.4  | 2103.4 | 2058.5 | 2028.5 | 1958.5 | 1873.6 | 1813.7 | 1733.7 | 1713.7 | 1673.8 | 1623.8 |
| 70°   | 1913.6  | 1963.5 | 1948.6 | 1878.6 | 1818.6 | 1723.7 | 1568.8 | 1438.9 | 1314.0 | 1269.1 | 1299.0 |
| 72.5° | 1668.8  | 1718.7 | 1718.7 | 1683.7 | 1603.8 | 1458.9 | 1309.0 | 1159.1 | 1054.2 | 974.3  | 964.3  |
| 75°   | 1284.0  | 1309.0 | 1369.0 | 1329.0 | 1224.1 | 1134.2 | 979.3  | 824.4  | 724.5  | 649.5  | 634.5  |
| 77.5° | 819.4   | 859.4  | 859.4  | 854.4  | 779.4  | 694.5  | 594.6  | 484.6  | 409.7  | 354.7  | 339.7  |
| 80°   | 544.6   | 569.6  | 589.6  | 569.6  | 519.6  | 454.7  | 379.7  | 304.8  | 249.8  | 204.8  | 194.9  |
| 82.5° | 399.7   | 429.7  | 444.7  | 424.7  | 374.7  | 324.8  | 269.8  | 214.8  | 159.9  | 124.9  | 114.9  |
| 85°   | 154.9   | 159.9  | 179.9  | 214.8  | 209.8  | 204.8  | 164.9  | 119.9  | 89.9   | 65.0   | 60.0   |
| 87.5° | 40.0    | 35.0   | 40.0   | 40.0   | 35.0   | 30.0   | 30.0   | 30.0   | 30.0   | 15.0   | 20.0   |
| 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)