

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: P455486

Luminaire Tested: **GALN-SA6C-830-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455486  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA6C-830-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33317 lumens  
Efficiency: N/A  
Efficacy: 103.8 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): 321  
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

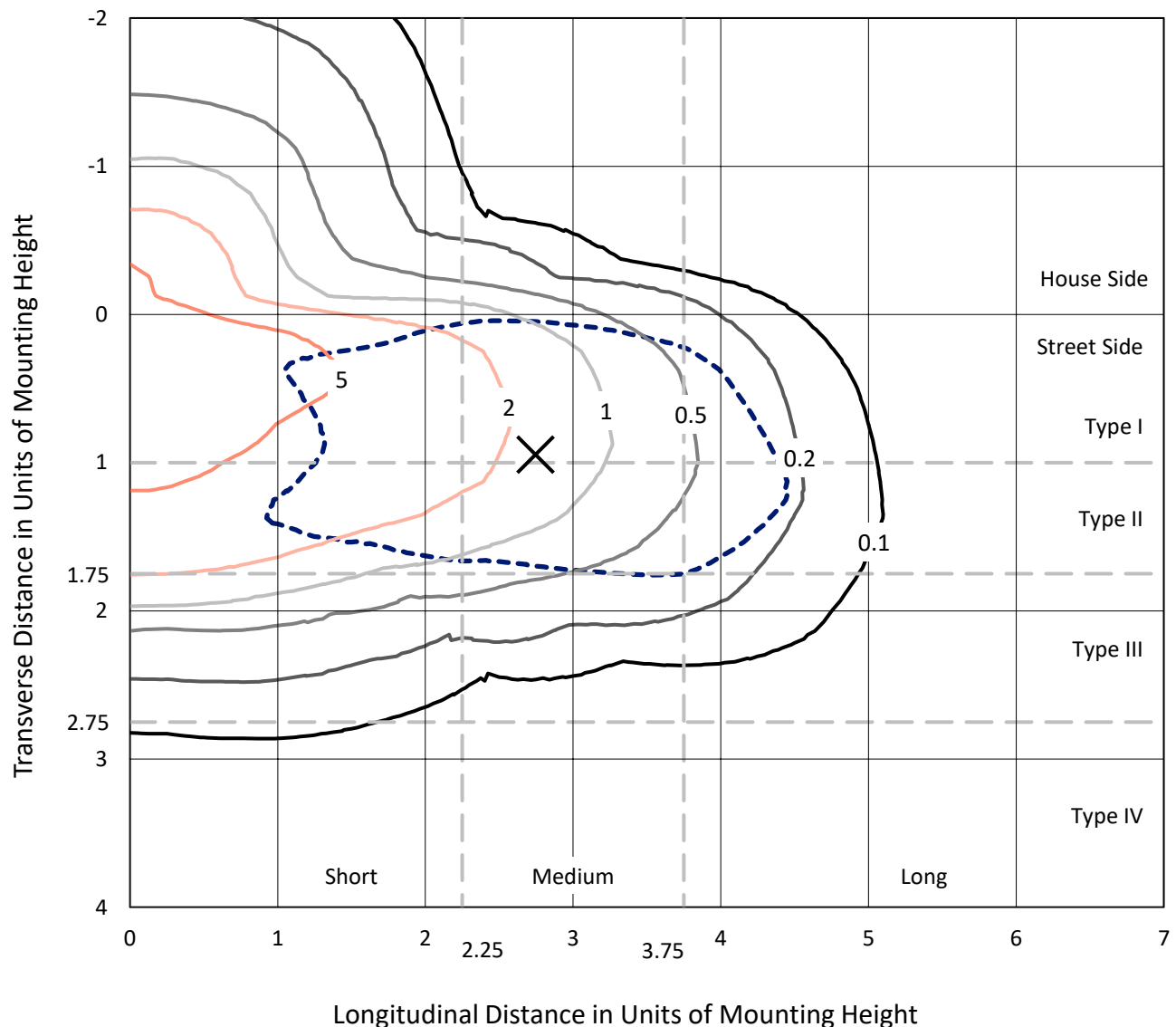


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

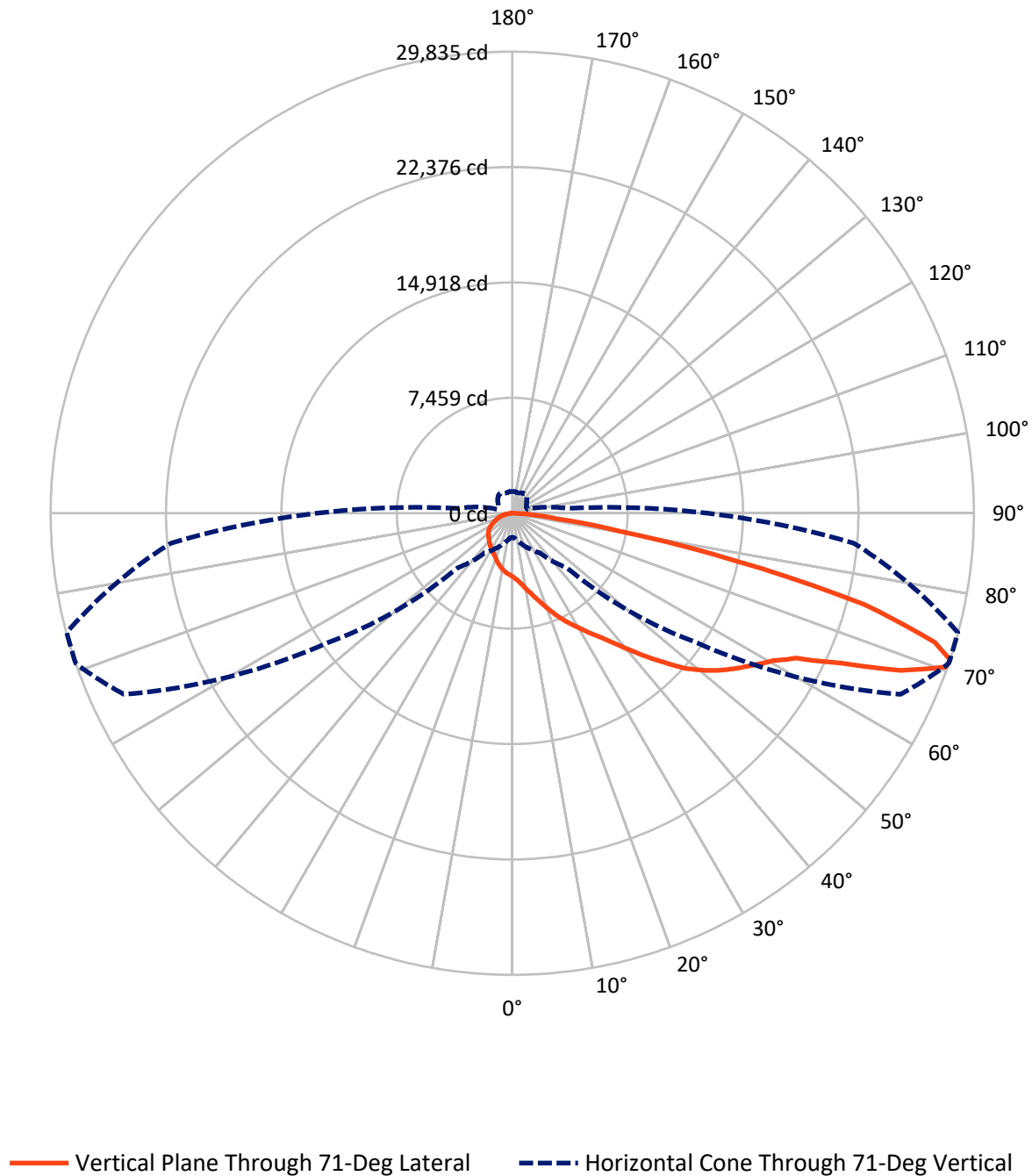


Based on 25 foot mounting height. Maximum calculated value = 9.3 fc  
Type II - Medium - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5992.0   | 0.0    | 5992.0  |
|                    | % Fixture | 18.0     | 0.0    | 18.0    |
| <b>Street Side</b> | Lumens    | 27325.0  | 0.0    | 27325.0 |
|                    | % Fixture | 82.0     | 0.0    | 82.0    |
| <b>Total</b>       | Lumens    | 33317.0  | 0.0    | 33317.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 410.6   | 1.2       |
| 10°-20°   | 1333.9  | 4.0       |
| 20°-30°   | 2331.1  | 7.0       |
| 30°-40°   | 3467.2  | 10.4      |
| 40°-50°   | 5108.4  | 15.3      |
| 50°-60°   | 7151.9  | 21.5      |
| 60°-70°   | 7999.2  | 24.0      |
| 70°-80°   | 4886.2  | 14.7      |
| 80°-90°   | 628.6   | 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°    | 33317.0 | 100.0     |
| 0°-180°   | 33317.0 | 100.0     |

**Coefficient of Utilization**



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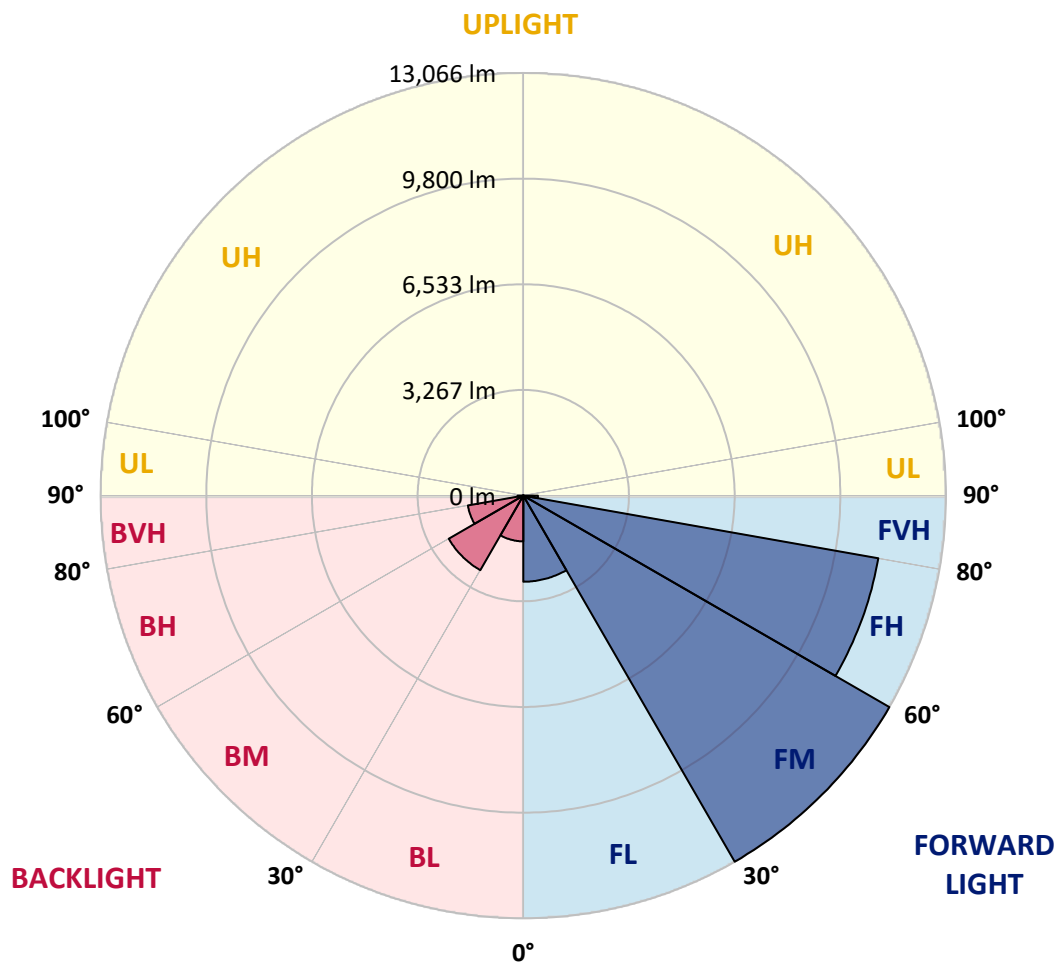
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2662.0  | 8.0       |                         |      |          |
| FM   | (30°-60°)   | 13066.3 | 39.2      |                         |      |          |
| FH   | (60°-80°)   | 11144.4 | 33.4      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 452.3   | 1.4       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1413.5  | 4.2       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 2661.3  | 8.0       | B3/5000                 |      |          |
| BH   | (60°-80°)   | 1740.9  | 5.2       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 176.3   | 0.5       |                         |      | G2/225   |
| 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°     | 71°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4089.0  | 4089.0  | 4089.0  | 4089.0  | 4089.0  | 4089.0  | 4089.0  | 4089.0  | 4089.0  | 4089.0  | 4089.0  |
| 2.5°  | 4539.5  | 4517.5  | 4519.3  | 4488.2  | 4447.9  | 4404.0  | 4341.7  | 4286.8  | 4242.8  | 4217.2  | 4142.1  |
| 5°    | 5030.2  | 5008.3  | 4980.8  | 4913.0  | 4883.7  | 4775.7  | 4638.4  | 4513.8  | 4418.6  | 4365.5  | 4215.4  |
| 7.5°  | 5427.6  | 5422.1  | 5414.8  | 5376.3  | 5301.2  | 5151.1  | 5033.9  | 4817.8  | 4676.8  | 4576.1  | 4319.7  |
| 10°   | 5673.0  | 5682.1  | 5687.6  | 5694.9  | 5663.8  | 5585.1  | 5423.9  | 5151.1  | 4971.6  | 4843.4  | 4455.2  |
| 12.5° | 5797.5  | 5806.6  | 5837.8  | 5905.5  | 5947.6  | 5938.5  | 5806.6  | 5539.3  | 5292.1  | 5123.6  | 4599.9  |
| 15°   | 5874.4  | 5889.0  | 5944.0  | 6033.7  | 6174.7  | 6264.4  | 6200.3  | 5953.1  | 5682.1  | 5482.5  | 4772.0  |
| 17.5° | 5958.6  | 5975.1  | 6035.5  | 6163.7  | 6348.7  | 6542.8  | 6612.4  | 6399.9  | 6105.1  | 5867.1  | 4964.3  |
| 20°   | 6006.2  | 6028.2  | 6114.3  | 6282.7  | 6498.8  | 6780.8  | 7011.6  | 6899.9  | 6577.6  | 6313.9  | 5185.9  |
| 22.5° | 6083.1  | 6101.5  | 6174.7  | 6354.2  | 6612.4  | 6965.8  | 7410.7  | 7386.9  | 7103.1  | 6762.5  | 5429.4  |
| 25°   | 6291.9  | 6321.2  | 6357.8  | 6465.9  | 6714.9  | 7154.4  | 7742.2  | 7907.0  | 7612.2  | 7231.3  | 5652.8  |
| 27.5° | 6685.6  | 6709.4  | 6707.6  | 6722.2  | 6863.2  | 7317.4  | 8029.7  | 8421.6  | 8117.6  | 7705.6  | 5868.9  |
| 30°   | 7134.2  | 7143.4  | 7150.7  | 7117.8  | 7148.9  | 7484.0  | 8293.4  | 8930.6  | 8626.6  | 8192.7  | 6057.5  |
| 32.5° | 7679.9  | 7698.2  | 7636.0  | 7551.7  | 7526.1  | 7731.2  | 8511.3  | 9439.7  | 9229.1  | 8687.1  | 6244.3  |
| 35°   | 8324.5  | 8372.1  | 8245.8  | 8097.4  | 7993.1  | 8086.5  | 8804.3  | 9959.7  | 9846.2  | 9318.8  | 6491.5  |
| 37.5° | 9060.6  | 9119.2  | 9002.0  | 8710.9  | 8562.6  | 8588.2  | 9187.0  | 10602.5 | 10626.3 | 10038.5 | 6859.6  |
| 40°   | 9663.1  | 9740.0  | 9743.7  | 9331.6  | 9106.4  | 9135.7  | 9672.2  | 11294.7 | 11567.5 | 10928.4 | 7293.6  |
| 42.5° | 10060.5 | 10135.5 | 10214.3 | 9972.6  | 9736.3  | 9903.0  | 10238.1 | 12045.4 | 12625.9 | 12008.8 | 7899.7  |
| 45°   | 10496.3 | 10564.0 | 10608.0 | 10498.1 | 10366.3 | 10798.4 | 10921.1 | 12843.8 | 13753.9 | 13215.6 | 8562.6  |
| 47.5° | 11001.7 | 11076.8 | 11118.9 | 11014.5 | 10965.1 | 11584.0 | 11657.2 | 13589.1 | 14958.8 | 14387.5 | 9295.0  |
| 50°   | 11675.5 | 11732.3 | 11710.3 | 11644.4 | 11633.4 | 12186.4 | 12364.1 | 14286.8 | 15953.2 | 15649.2 | 10055.0 |
| 52.5° | 12514.2 | 12582.0 | 12605.8 | 12512.4 | 12470.3 | 12616.8 | 12933.6 | 14922.2 | 16857.8 | 16733.2 | 10866.2 |
| 55°   | 13021.5 | 13129.5 | 13492.1 | 13638.6 | 13739.3 | 13173.4 | 13547.0 | 15623.5 | 17669.0 | 17875.9 | 11737.8 |
| 57.5° | 12371.4 | 12510.6 | 13321.8 | 14054.2 | 15001.0 | 14565.1 | 14416.8 | 16356.0 | 18480.2 | 18983.7 | 12781.6 |
| 60°   | 10785.6 | 10816.7 | 11862.3 | 13211.9 | 15116.3 | 16354.2 | 16231.5 | 17520.6 | 19359.1 | 20100.8 | 14156.8 |
| 62.5° | 7482.2  | 7548.1  | 8784.1  | 10937.6 | 13691.7 | 16998.8 | 19318.9 | 19531.3 | 20619.0 | 21772.6 | 16172.9 |
| 65°   | 3858.3  | 3772.2  | 4898.4  | 6874.2  | 10322.3 | 15467.9 | 21820.2 | 23228.4 | 23351.1 | 24387.5 | 19011.2 |
| 67.5° | 2375.0  | 2413.5  | 2940.9  | 4013.9  | 6103.3  | 11241.6 | 21558.4 | 27745.9 | 27099.5 | 27597.6 | 21646.3 |
| 70°   | 1783.6  | 1831.2  | 2193.7  | 2746.8  | 3720.9  | 6427.4  | 17337.5 | 28840.9 | 29743.7 | 29615.5 | 22448.3 |
| 71°   | 1551.0  | 1600.4  | 1977.7  | 2499.5  | 3125.8  | 4960.6  | 14607.3 | 27694.6 | 29835.3 | 29813.3 | 22146.2 |
| 72.5° | 1322.1  | 1353.2  | 1648.1  | 2116.8  | 2635.1  | 3477.4  | 10974.2 | 24838.0 | 28562.6 | 29293.2 | 21067.6 |
| 75°   | 1038.3  | 1062.1  | 1193.9  | 1615.1  | 2074.7  | 2135.1  | 5889.0  | 18621.2 | 23459.1 | 24850.8 | 17539.0 |
| 77.5° | 846.0   | 862.5   | 930.2   | 1199.4  | 1600.4  | 1512.5  | 3089.2  | 12120.5 | 14697.0 | 16097.8 | 10331.5 |
| 80°   | 672.0   | 690.4   | 730.6   | 813.0   | 1199.4  | 1078.6  | 1474.1  | 6141.7  | 7099.4  | 7084.8  | 4123.8  |
| 82.5° | 521.9   | 527.4   | 575.0   | 597.0   | 820.4   | 765.4   | 798.4   | 2600.3  | 2880.4  | 2975.7  | 1488.7  |
| 85°   | 329.6   | 346.1   | 509.1   | 457.8   | 490.8   | 448.6   | 393.7   | 1032.8  | 1272.7  | 1254.4  | 595.1   |
| 87.5° | 100.7   | 106.2   | 172.1   | 194.1   | 217.9   | 195.9   | 144.7   | 304.0   | 371.7   | 402.9   | 148.3   |
| 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°    | 4089.0  | 4089.0 | 4089.0 | 4089.0 | 4089.0 | 4089.0 | 4089.0 | 4089.0 | 4089.0 | 4089.0 | 4089.0 |
| 2.5°  | 4112.8  | 4092.7 | 4021.3 | 3962.7 | 3907.7 | 3847.3 | 3796.0 | 3781.4 | 3768.5 | 3763.1 | 3761.2 |
| 5°    | 4151.3  | 4090.8 | 3949.8 | 3834.5 | 3742.9 | 3658.7 | 3605.6 | 3581.8 | 3558.0 | 3558.0 | 3565.3 |
| 7.5°  | 4206.2  | 4096.3 | 3878.4 | 3706.3 | 3590.9 | 3512.2 | 3473.7 | 3470.1 | 3475.6 | 3481.1 | 3482.9 |
| 10°   | 4266.6  | 4092.7 | 3774.0 | 3559.8 | 3457.3 | 3420.6 | 3422.5 | 3453.6 | 3482.9 | 3504.9 | 3508.5 |
| 12.5° | 4325.2  | 4070.7 | 3651.4 | 3422.5 | 3356.5 | 3363.9 | 3415.1 | 3484.7 | 3541.5 | 3572.6 | 3574.4 |
| 15°   | 4391.1  | 4035.9 | 3503.0 | 3292.4 | 3270.5 | 3327.2 | 3422.5 | 3528.7 | 3614.7 | 3666.0 | 3671.5 |
| 17.5° | 4446.1  | 3977.3 | 3347.4 | 3166.1 | 3193.6 | 3297.9 | 3429.8 | 3567.1 | 3671.5 | 3735.6 | 3746.6 |
| 20°   | 4508.3  | 3902.2 | 3186.2 | 3045.2 | 3124.0 | 3265.0 | 3415.1 | 3563.5 | 3671.5 | 3733.8 | 3748.4 |
| 22.5° | 4557.8  | 3796.0 | 3032.4 | 2946.4 | 3061.7 | 3224.7 | 3365.7 | 3484.7 | 3572.6 | 3605.6 | 3627.5 |
| 25°   | 4577.9  | 3662.3 | 2887.8 | 2865.8 | 3012.3 | 3158.8 | 3254.0 | 3321.7 | 3349.2 | 3345.5 | 3354.7 |
| 27.5° | 4566.9  | 3508.5 | 2763.2 | 2801.7 | 2950.0 | 3056.2 | 3103.8 | 3098.3 | 3048.9 | 3003.1 | 3025.1 |
| 30°   | 4521.2  | 3325.4 | 2658.9 | 2735.8 | 2869.4 | 2928.0 | 2920.7 | 2849.3 | 2755.9 | 2669.8 | 2675.3 |
| 32.5° | 4438.8  | 3127.6 | 2561.8 | 2660.7 | 2755.9 | 2781.5 | 2732.1 | 2638.7 | 2505.0 | 2393.3 | 2376.9 |
| 35°   | 4369.2  | 2939.0 | 2475.7 | 2574.6 | 2642.4 | 2629.6 | 2582.0 | 2461.1 | 2340.2 | 2241.4 | 2224.9 |
| 37.5° | 4358.2  | 2777.9 | 2393.3 | 2477.6 | 2516.0 | 2497.7 | 2439.1 | 2336.6 | 2292.6 | 2217.5 | 2208.4 |
| 40°   | 4416.8  | 2664.4 | 2309.1 | 2375.0 | 2393.3 | 2378.7 | 2314.6 | 2256.0 | 2296.3 | 2278.0 | 2278.0 |
| 42.5° | 4576.1  | 2603.9 | 2234.0 | 2272.5 | 2287.1 | 2298.1 | 2252.3 | 2202.9 | 2252.3 | 2168.1 | 2140.6 |
| 45°   | 4828.8  | 2605.8 | 2166.3 | 2171.8 | 2215.7 | 2254.2 | 2223.0 | 2149.8 | 2124.2 | 1955.7 | 1922.7 |
| 47.5° | 5200.5  | 2668.0 | 2111.3 | 2076.5 | 2155.3 | 2219.4 | 2175.4 | 2069.2 | 1955.7 | 1844.0 | 1823.8 |
| 50°   | 5634.5  | 2779.7 | 2061.9 | 1977.7 | 2074.7 | 2175.4 | 2142.5 | 2018.0 | 1900.8 | 1833.0 | 1820.2 |
| 52.5° | 6116.1  | 2920.7 | 2001.5 | 1867.8 | 1975.8 | 2155.3 | 2149.8 | 2010.6 | 1849.5 | 1803.7 | 1792.7 |
| 55°   | 6711.2  | 3059.9 | 1926.4 | 1739.6 | 1887.9 | 2138.8 | 2129.7 | 1950.2 | 1838.5 | 1805.5 | 1801.9 |
| 57.5° | 7403.4  | 3261.3 | 1818.4 | 1609.6 | 1787.2 | 2071.1 | 2050.9 | 1913.6 | 1801.9 | 1778.1 | 1776.2 |
| 60°   | 8518.6  | 3574.4 | 1664.5 | 1490.6 | 1684.7 | 1952.0 | 1977.7 | 1851.3 | 1743.3 | 1737.8 | 1735.9 |
| 62.5° | 9985.4  | 4013.9 | 1505.2 | 1367.9 | 1565.7 | 1798.2 | 1871.5 | 1767.1 | 1681.0 | 1708.5 | 1712.1 |
| 65°   | 12010.6 | 4383.8 | 1340.4 | 1263.5 | 1433.8 | 1649.9 | 1770.7 | 1688.3 | 1611.4 | 1664.5 | 1664.5 |
| 67.5° | 13330.9 | 4391.1 | 1190.3 | 1155.5 | 1300.1 | 1525.4 | 1664.5 | 1594.9 | 1521.7 | 1611.4 | 1615.1 |
| 70°   | 13056.2 | 3847.3 | 1065.7 | 1041.9 | 1170.1 | 1391.7 | 1547.3 | 1492.4 | 1408.2 | 1488.7 | 1459.4 |
| 71°   | 12613.1 | 3545.1 | 1016.3 | 998.0  | 1118.8 | 1327.6 | 1492.4 | 1446.6 | 1362.4 | 1415.5 | 1399.0 |
| 72.5° | 11906.3 | 3078.2 | 935.7  | 939.4  | 1041.9 | 1247.0 | 1415.5 | 1367.9 | 1283.7 | 1312.9 | 1307.5 |
| 75°   | 10064.1 | 2688.2 | 800.2  | 816.7  | 895.4  | 1109.7 | 1261.7 | 1225.1 | 1139.0 | 1139.0 | 1133.5 |
| 77.5° | 6291.9  | 1878.8 | 664.7  | 673.9  | 759.9  | 950.4  | 1084.1 | 1052.9 | 970.5  | 943.1  | 935.7  |
| 80°   | 2347.6  | 970.5  | 520.1  | 531.0  | 584.1  | 748.9  | 897.3  | 868.0  | 783.7  | 752.6  | 723.3  |
| 82.5° | 888.1   | 487.1  | 382.7  | 373.6  | 430.3  | 571.3  | 703.2  | 668.4  | 602.5  | 527.4  | 505.4  |
| 85°   | 335.1   | 241.7  | 234.4  | 227.1  | 252.7  | 338.8  | 435.8  | 428.5  | 358.9  | 305.8  | 300.3  |
| 87.5° | 87.9    | 78.7   | 91.6   | 67.8   | 71.4   | 64.1   | 65.9   | 27.5   | 12.8   | 5.5    | 3.7    |
| 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)