

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: P530450

Luminaire Tested: **GALN-SA5C-830-U-T2-GRSWH**

Issue Date: 5/27/2021

#### Test Information

Test Method: LM-79-08  
Report Number: P530450  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5C-830-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 23467 lumens  
Efficiency: N/A  
Efficacy: 87.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 269  
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

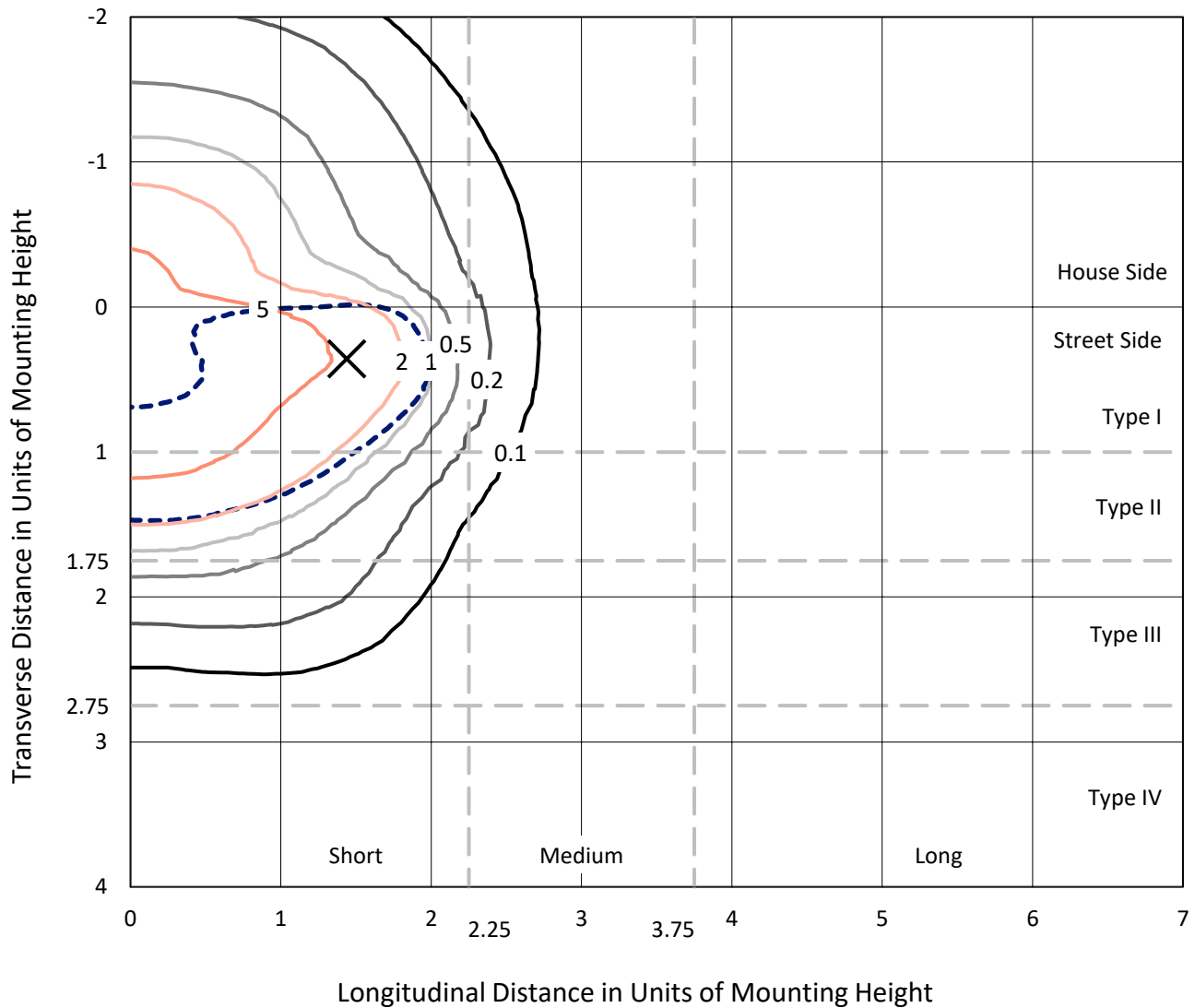


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## Iso-Footcandle Lines of Horizontal Illumination

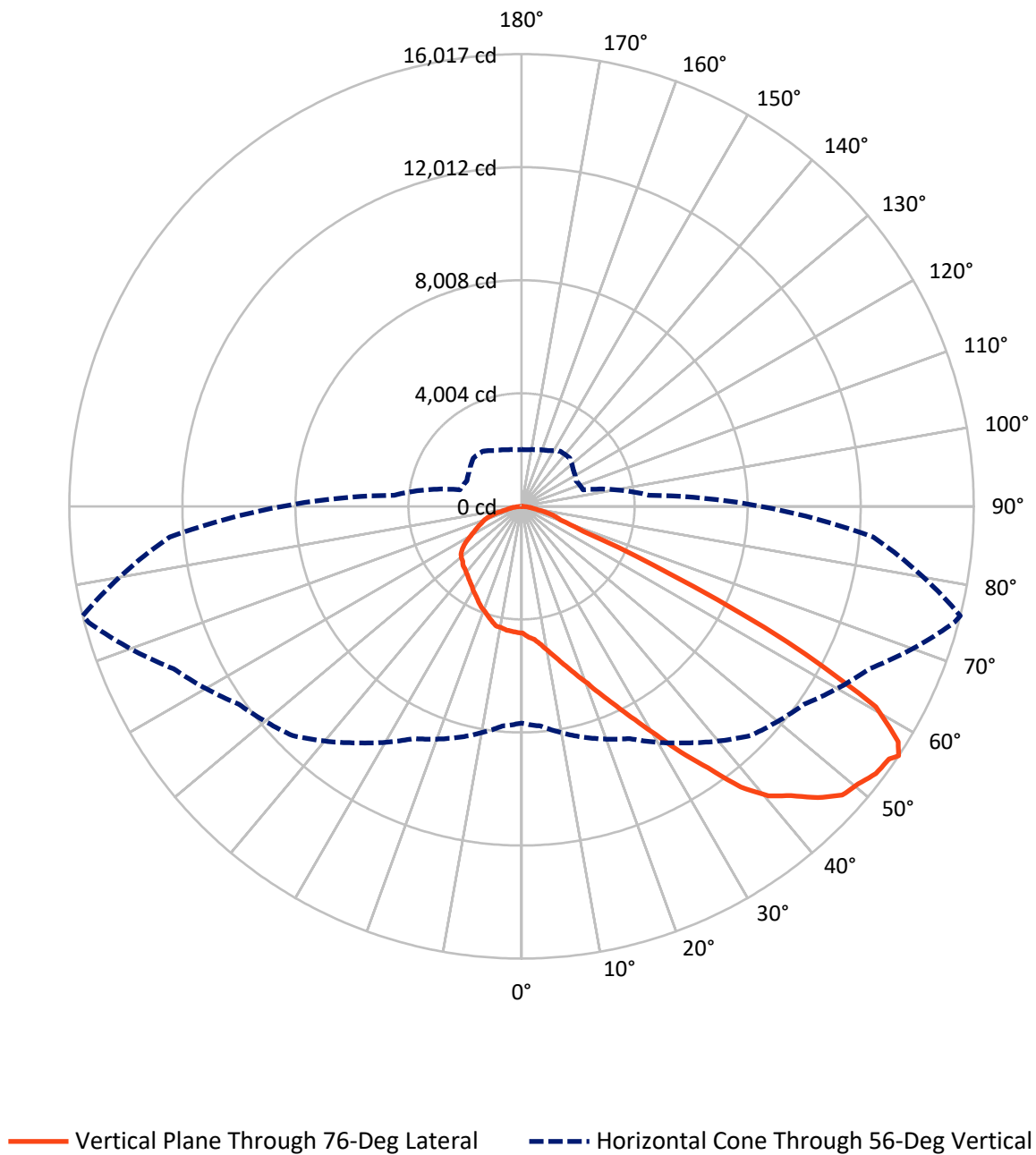
✕ Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc  
Type II - Short - N/A

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## Luminous Intensity Polar Plot



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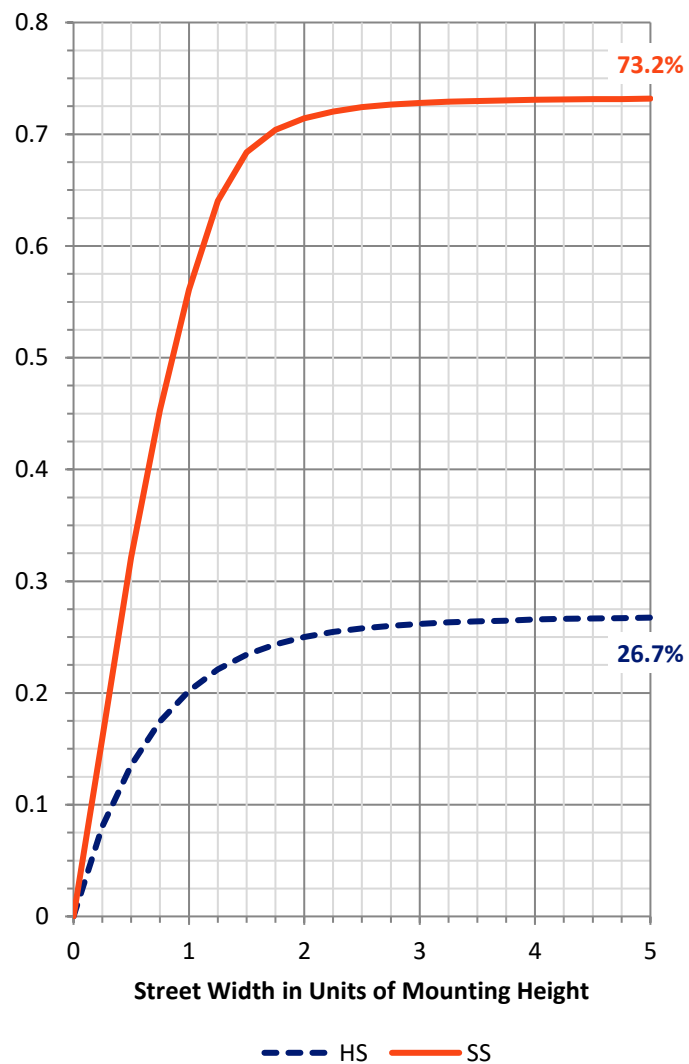
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6309.6   | 0.0    | 6309.6  |
|                    | % Fixture | 26.9     | 0.0    | 26.9    |
| <b>Street Side</b> | Lumens    | 17157.4  | 0.0    | 17157.4 |
|                    | % Fixture | 73.1     | 0.0    | 73.1    |
| <b>Total</b>       | Lumens    | 23467.0  | 0.0    | 23467.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 445.3   | 1.9       |
| 10°-20°   | 1398.8  | 6.0       |
| 20°-30°   | 2446.3  | 10.4      |
| 30°-40°   | 3830.2  | 16.3      |
| 40°-50°   | 5571.8  | 23.7      |
| 50°-60°   | 6123.8  | 26.1      |
| 60°-70°   | 2733.4  | 11.6      |
| 70°-80°   | 789.5   | 3.4       |
| 80°-90°   | 128.1   | 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°    | 23467.0 | 100.0     |
| 0°-180°   | 23467.0 | 100.0     |

**Coefficient of Utilization**



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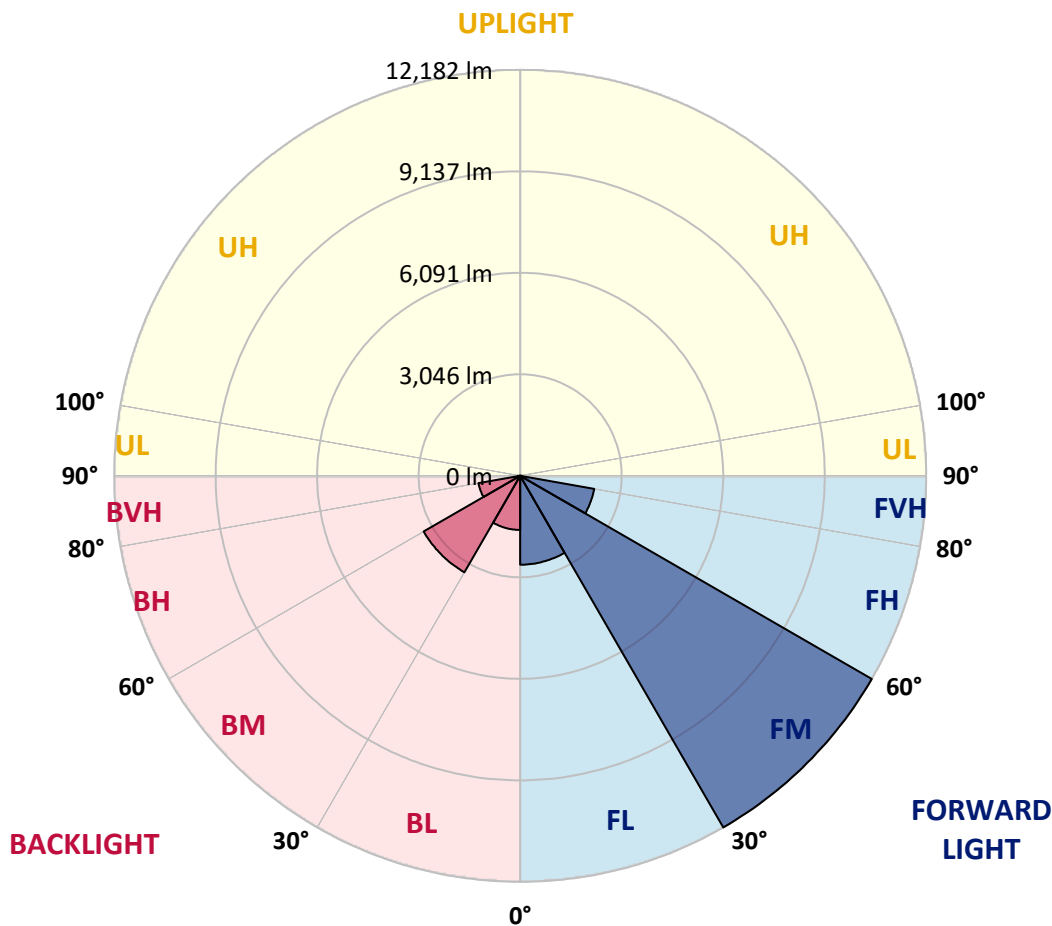
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2666.8  | 11.4      |                         |      |         |
| FM   | (30°-60°)   | 12182.2 | 51.9      |                         |      |         |
| FH   | (60°-80°)   | 2253.4  | 9.6       |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 55.1    | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1623.6  | 6.9       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 3343.6  | 14.2      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1269.5  | 5.4       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 72.9    | 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°     | 55°     | 65°     | 75°     | 76°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4490.1  | 4490.1  | 4490.1  | 4490.1  | 4490.1  | 4490.1  | 4490.1  | 4490.1  | 4490.1  | 4490.1  | 4490.1  |
| 2.5°  | 4946.4  | 4867.3  | 4861.2  | 4839.9  | 4852.1  | 4797.4  | 4739.6  | 4663.5  | 4584.4  | 4633.1  | 4517.5  |
| 5°    | 5293.2  | 5186.7  | 5229.3  | 5156.3  | 5165.5  | 5092.4  | 4973.8  | 4885.6  | 4788.2  | 4730.4  | 4648.3  |
| 7.5°  | 5414.9  | 5424.0  | 5454.4  | 5442.3  | 5381.4  | 5381.4  | 5302.3  | 5147.2  | 4976.8  | 4943.4  | 4806.5  |
| 10°   | 5579.2  | 5582.2  | 5548.8  | 5557.9  | 5643.1  | 5603.5  | 5533.5  | 5466.6  | 5247.6  | 5208.0  | 4964.7  |
| 12.5° | 5637.0  | 5582.2  | 5637.0  | 5685.6  | 5786.0  | 5840.8  | 5825.6  | 5776.9  | 5542.7  | 5515.3  | 5159.4  |
| 15°   | 5646.1  | 5612.6  | 5658.3  | 5767.8  | 5856.0  | 6087.2  | 6202.8  | 6169.3  | 5859.0  | 5862.1  | 5378.4  |
| 17.5° | 5603.5  | 5649.1  | 5667.4  | 5761.7  | 5965.5  | 6181.5  | 6516.1  | 6561.8  | 6306.2  | 6266.7  | 5655.2  |
| 20°   | 5661.3  | 5627.8  | 5652.2  | 5737.4  | 6008.1  | 6345.8  | 6783.8  | 7085.0  | 6726.0  | 6698.7  | 5941.2  |
| 22.5° | 5883.4  | 5837.8  | 5831.7  | 5886.4  | 6081.1  | 6431.0  | 7066.8  | 7608.2  | 7237.1  | 7252.3  | 6297.1  |
| 25°   | 6056.8  | 6081.1  | 6059.8  | 6056.8  | 6178.5  | 6558.7  | 7440.9  | 8231.9  | 7930.7  | 7842.5  | 6716.9  |
| 27.5° | 6354.9  | 6412.7  | 6370.1  | 6427.9  | 6400.5  | 6750.4  | 7708.6  | 8922.4  | 8679.1  | 8560.4  | 7097.2  |
| 30°   | 6768.6  | 6799.0  | 6759.5  | 6759.5  | 6677.4  | 7018.1  | 7952.0  | 9643.4  | 9543.0  | 9381.8  | 7544.4  |
| 32.5° | 7313.2  | 7358.8  | 7279.7  | 7234.1  | 7221.9  | 7416.6  | 8390.1  | 10355.2 | 10525.6 | 10388.7 | 8137.6  |
| 35°   | 8034.1  | 8006.8  | 7912.4  | 7869.9  | 7705.6  | 8028.0  | 9041.1  | 11173.6 | 11620.7 | 11377.4 | 8855.5  |
| 37.5° | 8669.9  | 8627.3  | 8621.3  | 8384.0  | 8423.5  | 8688.2  | 9594.7  | 11794.1 | 12682.4 | 12612.5 | 9613.0  |
| 40°   | 9263.1  | 9302.7  | 9366.6  | 9232.7  | 9171.9  | 9463.9  | 10239.6 | 12268.7 | 13506.8 | 13479.5 | 10197.0 |
| 42.5° | 9898.9  | 9862.4  | 9975.0  | 9862.4  | 9771.2  | 10184.9 | 10939.3 | 12597.3 | 14230.8 | 14005.7 | 10808.5 |
| 45°   | 10820.7 | 10705.1 | 10744.6 | 10753.8 | 10686.8 | 10838.9 | 11228.3 | 12834.5 | 14738.9 | 14714.5 | 11255.7 |
| 47.5° | 11590.3 | 11593.4 | 11526.4 | 11474.7 | 11270.9 | 11423.0 | 11550.8 | 12983.6 | 15323.0 | 15283.4 | 11429.1 |
| 50°   | 11876.3 | 11836.7 | 12031.4 | 12144.0 | 12156.1 | 11845.9 | 11803.3 | 13065.7 | 15630.2 | 15456.8 | 11602.5 |
| 52.5° | 10848.1 | 10884.6 | 11191.8 | 11861.1 | 12247.4 | 12280.9 | 12098.3 | 13236.1 | 15754.9 | 15718.4 | 11742.4 |
| 55°   | 8730.8  | 8907.2  | 9412.2  | 10184.9 | 11100.5 | 12107.5 | 12417.8 | 13412.5 | 15821.9 | 15791.4 | 12363.0 |
| 56°   | 7675.2  | 7812.1  | 8469.1  | 9074.5  | 10224.4 | 11477.8 | 12217.0 | 13601.1 | 15873.6 | 16016.5 | 12509.0 |
| 57.5° | 6178.5  | 6336.7  | 6808.2  | 7495.7  | 8852.5  | 10279.2 | 11663.3 | 13369.9 | 15672.8 | 15727.6 | 12615.5 |
| 60°   | 3863.4  | 3878.7  | 4444.5  | 4897.7  | 5853.0  | 7246.2  | 8901.1  | 11632.9 | 14504.6 | 14425.5 | 11331.7 |
| 62.5° | 2534.1  | 2537.1  | 3051.2  | 3422.3  | 3857.4  | 4176.8  | 5238.5  | 7714.7  | 10702.0 | 10562.1 | 8067.6  |
| 65°   | 1779.6  | 1819.2  | 2217.7  | 2713.5  | 2890.0  | 2722.7  | 2689.2  | 4067.3  | 5977.7  | 5776.9  | 4335.0  |
| 67.5° | 1302.0  | 1305.1  | 1657.9  | 2190.3  | 2445.8  | 2071.7  | 1682.3  | 1986.5  | 2366.7  | 2360.7  | 2007.8  |
| 70°   | 860.9   | 897.4   | 1168.2  | 1636.6  | 1928.7  | 1664.0  | 1375.0  | 1420.7  | 1505.8  | 1505.8  | 1493.7  |
| 72.5° | 501.9   | 535.4   | 714.9   | 1037.3  | 1083.0  | 1040.4  | 1089.1  | 1216.8  | 1271.6  | 1268.5  | 1253.3  |
| 75°   | 286.0   | 301.2   | 340.7   | 432.0   | 538.4   | 635.8   | 800.1   | 921.8   | 976.5   | 1010.0  | 970.4   |
| 77.5° | 167.3   | 176.4   | 200.8   | 246.4   | 279.9   | 343.8   | 435.0   | 520.2   | 593.2   | 584.1   | 590.2   |
| 80°   | 88.2    | 88.2    | 112.6   | 146.0   | 194.7   | 243.4   | 289.0   | 337.7   | 377.2   | 386.3   | 395.5   |
| 82.5° | 51.7    | 54.8    | 73.0    | 106.5   | 139.9   | 173.4   | 222.1   | 255.5   | 292.0   | 295.1   | 301.2   |
| 85°   | 27.4    | 30.4    | 45.6    | 70.0    | 94.3    | 106.5   | 109.5   | 103.4   | 112.6   | 106.5   | 121.7   |
| 87.5° | 9.1     | 9.1     | 15.2    | 12.2    | 12.2    | 15.2    | 18.3    | 18.3    | 24.3    | 24.3    | 24.3    |
| 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°    | 4490.1 | 4490.1 | 4490.1 | 4490.1 | 4490.1 | 4490.1 | 4490.1 | 4490.1 | 4490.1 | 4490.1 | 4490.1 |
| 2.5°  | 4514.4 | 4514.4 | 4462.7 | 4365.4 | 4350.2 | 4310.6 | 4274.1 | 4271.1 | 4243.7 | 4219.4 | 4207.2 |
| 5°    | 4599.6 | 4505.3 | 4429.3 | 4341.0 | 4237.6 | 4188.9 | 4134.2 | 4073.3 | 4049.0 | 4073.3 | 4070.3 |
| 7.5°  | 4697.0 | 4617.9 | 4389.7 | 4225.4 | 4106.8 | 4058.1 | 3997.3 | 3933.4 | 3939.5 | 3939.5 | 3896.9 |
| 10°   | 4791.3 | 4684.8 | 4319.8 | 4109.8 | 3936.5 | 3899.9 | 3866.5 | 3890.8 | 3921.2 | 3927.3 | 3899.9 |
| 12.5° | 4949.5 | 4709.1 | 4286.3 | 3994.3 | 3884.7 | 3805.6 | 3826.9 | 3893.9 | 3957.7 | 3939.5 | 3960.8 |
| 15°   | 5068.1 | 4730.4 | 4134.2 | 3875.6 | 3738.7 | 3775.2 | 3851.3 | 3896.9 | 4003.4 | 3991.2 | 4012.5 |
| 17.5° | 5183.7 | 4742.6 | 3985.1 | 3717.4 | 3659.6 | 3760.0 | 3817.8 | 3948.6 | 3982.1 | 4055.1 | 4082.5 |
| 20°   | 5421.0 | 4766.9 | 3833.0 | 3620.1 | 3601.8 | 3717.4 | 3817.8 | 3878.7 | 3951.7 | 4015.5 | 4015.5 |
| 22.5° | 5542.7 | 4754.8 | 3732.6 | 3492.3 | 3550.1 | 3623.1 | 3714.4 | 3817.8 | 3817.8 | 3878.7 | 3881.7 |
| 25°   | 5694.8 | 4706.1 | 3574.4 | 3431.5 | 3474.1 | 3544.0 | 3647.5 | 3610.9 | 3650.5 | 3650.5 | 3699.2 |
| 27.5° | 5868.2 | 4602.7 | 3437.5 | 3322.0 | 3407.1 | 3483.2 | 3498.4 | 3474.1 | 3428.4 | 3422.3 | 3404.1 |
| 30°   | 6008.1 | 4474.9 | 3337.2 | 3285.4 | 3355.4 | 3398.0 | 3349.3 | 3297.6 | 3218.5 | 3212.4 | 3169.8 |
| 32.5° | 6199.8 | 4316.7 | 3212.4 | 3194.2 | 3273.3 | 3276.3 | 3261.1 | 3182.0 | 3066.4 | 3017.7 | 2969.1 |
| 35°   | 6522.2 | 4225.4 | 3118.1 | 3145.5 | 3169.8 | 3160.7 | 3133.3 | 3048.2 | 2932.6 | 2911.3 | 2893.0 |
| 37.5° | 6759.5 | 4158.5 | 3020.8 | 3054.2 | 3075.5 | 3087.7 | 3005.6 | 2911.3 | 2914.3 | 2871.7 | 2859.6 |
| 40°   | 7027.2 | 4115.9 | 2941.7 | 2956.9 | 2959.9 | 2999.5 | 2899.1 | 2853.5 | 2874.8 | 2847.4 | 2865.6 |
| 42.5° | 7371.0 | 4128.1 | 2859.6 | 2847.4 | 2905.2 | 2890.0 | 2841.3 | 2780.5 | 2792.6 | 2710.5 | 2722.7 |
| 45°   | 7553.5 | 4210.2 | 2810.9 | 2756.1 | 2820.0 | 2817.0 | 2753.1 | 2695.3 | 2622.3 | 2464.1 | 2470.2 |
| 47.5° | 7675.2 | 4231.5 | 2695.3 | 2658.8 | 2725.7 | 2765.3 | 2692.2 | 2558.4 | 2455.0 | 2342.4 | 2315.0 |
| 50°   | 7799.9 | 4271.1 | 2640.5 | 2564.5 | 2591.9 | 2686.2 | 2594.9 | 2467.1 | 2366.7 | 2266.3 | 2281.6 |
| 52.5° | 7909.4 | 4347.1 | 2534.1 | 2421.5 | 2470.2 | 2573.6 | 2524.9 | 2369.8 | 2260.3 | 2178.1 | 2153.8 |
| 55°   | 8396.1 | 4517.5 | 2354.6 | 2208.5 | 2324.1 | 2455.0 | 2427.6 | 2239.0 | 2120.3 | 2077.7 | 2071.7 |
| 56°   | 8472.2 | 4523.6 | 2260.3 | 2135.5 | 2242.0 | 2415.4 | 2381.9 | 2181.2 | 2074.7 | 2007.8 | 2010.8 |
| 57.5° | 8484.4 | 4450.6 | 2126.4 | 2068.6 | 2159.9 | 2357.6 | 2315.0 | 2135.5 | 1989.5 | 1928.7 | 1910.4 |
| 60°   | 7465.3 | 3474.1 | 1959.1 | 1922.6 | 2029.1 | 2181.2 | 2166.0 | 2010.8 | 1846.5 | 1776.6 | 1810.0 |
| 62.5° | 5089.4 | 2546.2 | 1828.3 | 1822.2 | 1877.0 | 2026.0 | 1986.5 | 1846.5 | 1709.6 | 1664.0 | 1642.7 |
| 65°   | 2963.0 | 1931.7 | 1700.5 | 1676.2 | 1721.8 | 1800.9 | 1828.3 | 1682.3 | 1539.3 | 1508.9 | 1499.7 |
| 67.5° | 1749.2 | 1597.1 | 1536.3 | 1496.7 | 1481.5 | 1530.2 | 1551.5 | 1466.3 | 1323.3 | 1280.7 | 1317.2 |
| 70°   | 1463.2 | 1420.7 | 1423.7 | 1356.8 | 1320.3 | 1286.8 | 1268.5 | 1192.5 | 1073.9 | 1019.1 | 1003.9 |
| 72.5° | 1262.5 | 1244.2 | 1232.0 | 1171.2 | 1137.7 | 1061.7 | 982.6  | 906.5  | 818.3  | 772.7  | 775.7  |
| 75°   | 964.3  | 958.3  | 964.3  | 933.9  | 876.1  | 815.3  | 742.3  | 644.9  | 578.0  | 520.2  | 532.4  |
| 77.5° | 575.0  | 593.2  | 602.3  | 590.2  | 565.8  | 511.1  | 465.4  | 401.6  | 337.7  | 292.0  | 286.0  |
| 80°   | 395.5  | 410.7  | 425.9  | 410.7  | 386.3  | 346.8  | 298.1  | 249.5  | 203.8  | 179.5  | 173.4  |
| 82.5° | 301.2  | 316.4  | 325.5  | 310.3  | 279.9  | 237.3  | 203.8  | 170.4  | 133.9  | 109.5  | 103.4  |
| 85°   | 109.5  | 124.7  | 121.7  | 146.0  | 158.2  | 152.1  | 130.8  | 100.4  | 76.1   | 54.8   | 51.7   |
| 87.5° | 30.4   | 27.4   | 30.4   | 30.4   | 30.4   | 27.4   | 24.3   | 24.3   | 24.3   | 15.2   | 12.2   |
| 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)