

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: P459032

Luminaire Tested: **GALN-SA5B-735-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459032  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5B-735-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26487 lumens  
Efficiency: N/A  
Efficacy: 129.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

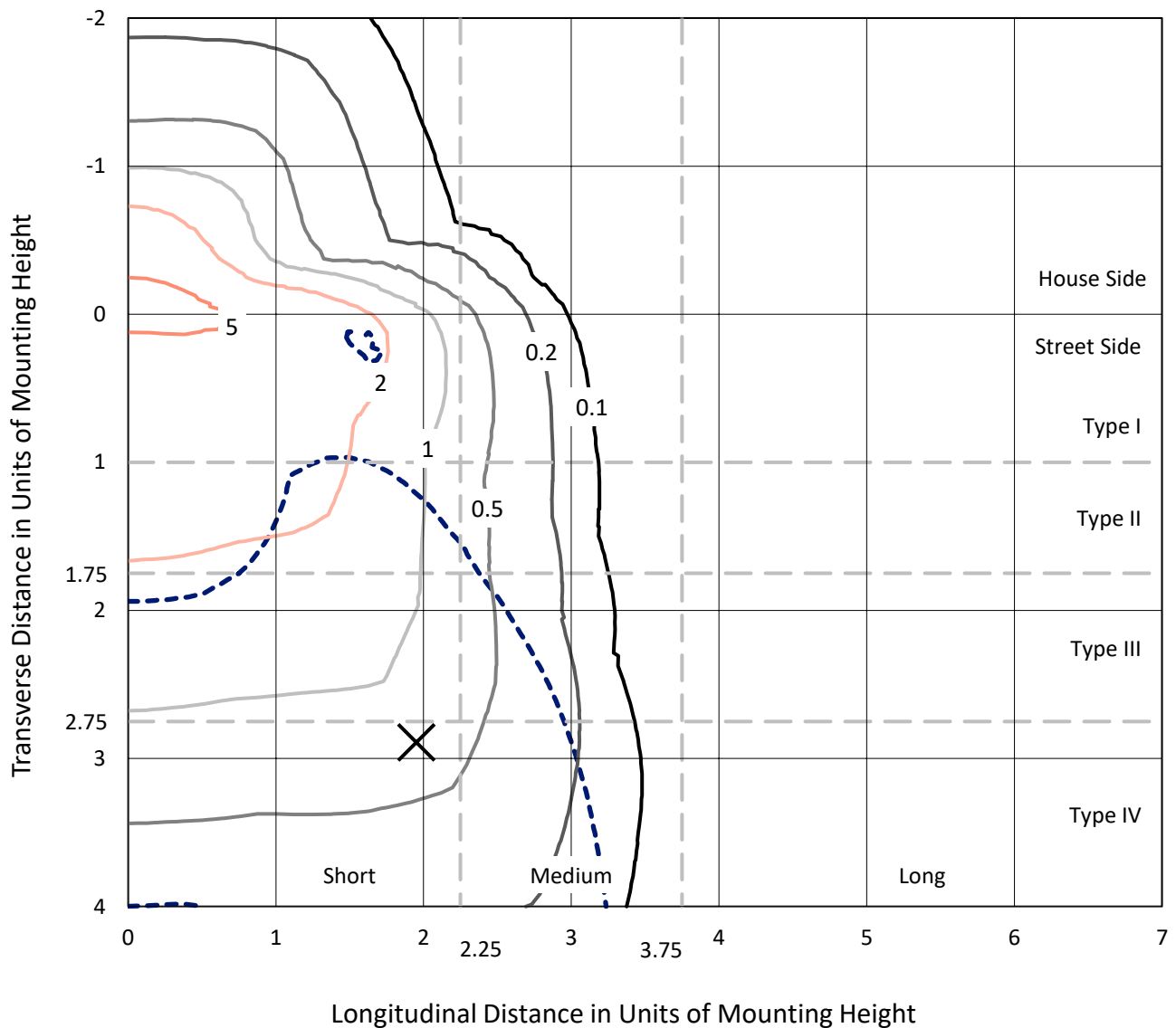
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

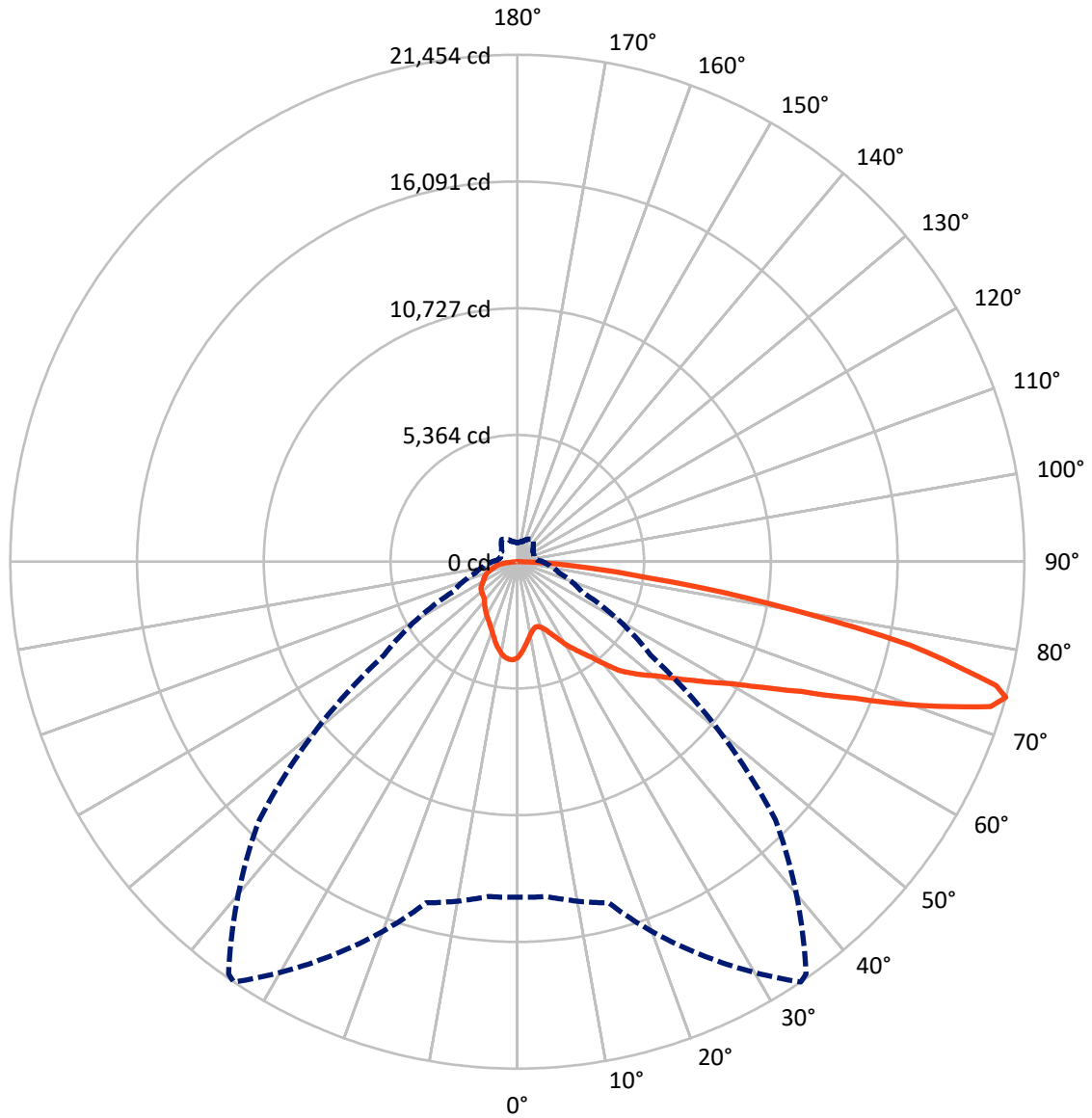
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral      - - - Horizontal Cone Through 74-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5636.6   | 0.0    | 5636.6  |
|                    | % Fixture | 21.3     | 0.0    | 21.3    |
| <b>Street Side</b> | Lumens    | 20850.4  | 0.0    | 20850.4 |
|                    | % Fixture | 78.7     | 0.0    | 78.7    |
| <b>Total</b>       | Lumens    | 26487.0  | 0.0    | 26487.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 367.8   | 1.4       |
| 10°-20°   | 1006.8  | 3.8       |
| 20°-30°   | 1660.0  | 6.3       |
| 30°-40°   | 2486.4  | 9.4       |
| 40°-50°   | 3614.6  | 13.6      |
| 50°-60°   | 5048.7  | 19.1      |
| 60°-70°   | 6320.7  | 23.9      |
| 70°-80°   | 5226.7  | 19.7      |
| 80°-90°   | 755.2   | 2.9       |
| 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°    | 26487.0 | 100.0     |
| 0°-180°   | 26487.0 | 100.0     |

**Coefficient of Utilization**



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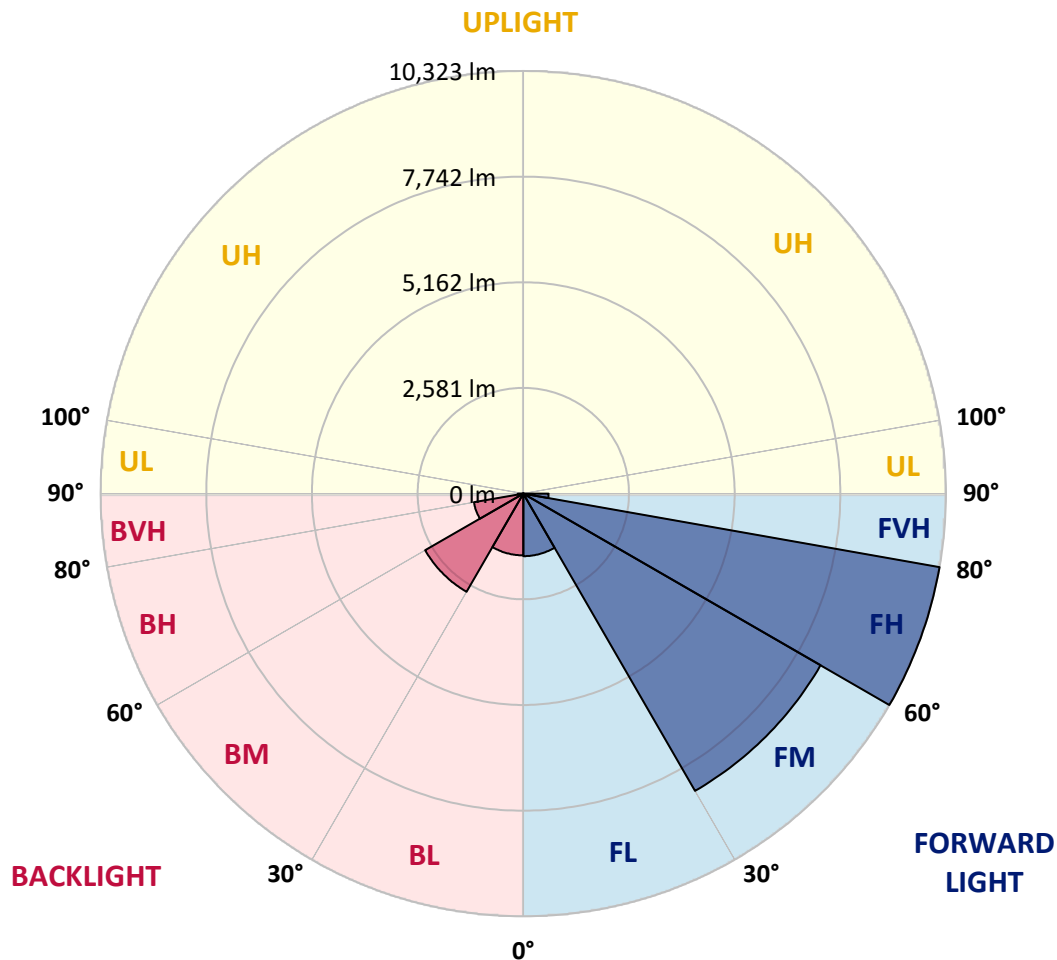
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1526.9  | 5.8       |                         |      |          |
| FM   | (30°-60°)   | 8381.6  | 31.6      |                         |      |          |
| FH   | (60°-80°)   | 10323.2 | 39.0      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 618.7   | 2.3       |                         |      | G4/750   |
| BL   | (0°-30°)    | 1507.7  | 5.7       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 2768.2  | 10.5      | B3/5000                 |      |          |
| BH   | (60°-80°)   | 1224.2  | 4.6       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 136.5   | 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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 34°     | 35°     | 45°     | 55°     | 65°    | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|--------|---------|---------|
| 0°    | 4044.0  | 4044.0  | 4044.0  | 4044.0  | 4044.0  | 4044.0  | 4044.0  | 4044.0  | 4044.0 | 4044.0  | 4044.0  |
| 2.5°  | 3737.4  | 3756.4  | 3766.7  | 3803.4  | 3812.2  | 3823.9  | 3854.8  | 3895.8  | 3948.7 | 3995.6  | 4036.7  |
| 5°    | 3426.3  | 3455.6  | 3473.2  | 3505.5  | 3568.6  | 3574.5  | 3656.7  | 3750.6  | 3857.7 | 3957.5  | 4039.6  |
| 7.5°  | 3131.3  | 3163.6  | 3178.3  | 3237.0  | 3320.6  | 3333.8  | 3454.2  | 3602.4  | 3781.4 | 3932.5  | 4058.7  |
| 10°   | 2909.8  | 2925.9  | 2958.2  | 3002.2  | 3102.0  | 3110.8  | 3267.8  | 3465.9  | 3697.7 | 3920.8  | 4091.0  |
| 12.5° | 2789.4  | 2798.3  | 2805.6  | 2852.5  | 2950.9  | 2964.1  | 3128.4  | 3352.9  | 3631.7 | 3929.6  | 4143.8  |
| 15°   | 2807.1  | 2810.0  | 2777.7  | 2786.5  | 2865.8  | 2884.8  | 3047.7  | 3278.1  | 3590.6 | 3951.6  | 4223.1  |
| 17.5° | 2955.3  | 2945.0  | 2865.8  | 2824.7  | 2880.4  | 2889.2  | 3031.6  | 3248.7  | 3571.6 | 3992.7  | 4305.2  |
| 20°   | 3188.6  | 3173.9  | 3037.4  | 2946.5  | 2978.7  | 2986.1  | 3084.4  | 3270.7  | 3590.6 | 4060.2  | 4432.9  |
| 22.5° | 3479.1  | 3473.2  | 3266.3  | 3156.3  | 3154.8  | 3154.8  | 3206.2  | 3350.0  | 3647.9 | 4152.6  | 4566.4  |
| 25°   | 3885.6  | 3854.8  | 3584.8  | 3442.4  | 3402.8  | 3399.9  | 3394.0  | 3480.6  | 3721.2 | 4250.9  | 4724.9  |
| 27.5° | 4302.3  | 4249.5  | 4008.8  | 3790.2  | 3705.1  | 3694.8  | 3656.7  | 3665.5  | 3815.1 | 4362.5  | 4905.4  |
| 30°   | 4676.5  | 4642.7  | 4416.8  | 4174.6  | 4073.4  | 4049.9  | 3944.3  | 3895.8  | 3972.1 | 4563.5  | 5193.0  |
| 32.5° | 4962.6  | 4942.1  | 4766.0  | 4545.9  | 4396.2  | 4391.8  | 4237.7  | 4198.1  | 4217.2 | 4807.1  | 5521.7  |
| 35°   | 5194.5  | 5201.8  | 5112.3  | 4921.5  | 4749.8  | 4724.9  | 4622.2  | 4572.3  | 4516.5 | 5159.2  | 5935.5  |
| 37.5° | 5511.4  | 5527.5  | 5521.7  | 5357.3  | 5147.5  | 5153.4  | 5129.9  | 5047.7  | 4899.5 | 5552.5  | 6394.7  |
| 40°   | 5860.6  | 5872.4  | 5870.9  | 5807.8  | 5697.8  | 5703.6  | 5694.8  | 5600.9  | 5379.3 | 6052.9  | 6905.4  |
| 42.5° | 6343.4  | 6287.6  | 6142.4  | 6205.5  | 6270.0  | 6297.9  | 6358.1  | 6268.6  | 5964.8 | 6587.0  | 7385.2  |
| 45°   | 6883.4  | 6777.7  | 6449.0  | 6478.4  | 6717.6  | 6770.4  | 7102.0  | 6978.8  | 6600.2 | 7200.3  | 7950.2  |
| 47.5° | 7223.8  | 7119.6  | 6842.3  | 6836.4  | 7153.4  | 7204.7  | 7791.7  | 7746.2  | 7178.3 | 7862.1  | 8639.8  |
| 50°   | 7527.6  | 7512.9  | 7200.3  | 7275.2  | 7584.8  | 7661.1  | 8543.0  | 8500.4  | 7755.0 | 8642.7  | 9391.1  |
| 52.5° | 7978.0  | 7859.2  | 7609.7  | 7763.8  | 8173.2  | 8273.0  | 9288.4  | 9163.7  | 8284.7 | 9332.4  | 10120.4 |
| 55°   | 8180.5  | 8152.6  | 8138.0  | 8271.5  | 8833.5  | 8905.4  | 10013.3 | 9727.1  | 8736.7 | 9916.4  | 10675.0 |
| 57.5° | 8722.0  | 8670.6  | 8815.9  | 8906.9  | 9611.2  | 9721.3  | 10770.4 | 10315.5 | 9132.8 | 10380.1 | 10945.0 |
| 60°   | 9423.4  | 9395.5  | 9529.0  | 9693.4  | 10479.9 | 10647.2 | 11633.2 | 10817.4 | 9451.3 | 10613.4 | 10796.8 |
| 62.5° | 10471.1 | 10468.1 | 10443.2 | 10795.4 | 11711.0 | 11865.1 | 12623.7 | 11306.0 | 9501.1 | 10438.8 | 10030.9 |
| 65°   | 11973.6 | 11920.8 | 11703.7 | 12088.1 | 13242.9 | 13423.4 | 13655.2 | 11578.9 | 9200.3 | 9542.2  | 8446.1  |
| 67.5° | 13545.2 | 13542.3 | 13366.2 | 13865.1 | 15442.5 | 15628.8 | 14945.1 | 11518.8 | 8365.4 | 7730.0  | 5998.6  |
| 70°   | 14848.2 | 14785.1 | 15009.6 | 16339.0 | 18252.5 | 18468.2 | 16073.4 | 10810.0 | 6663.3 | 5104.9  | 3564.2  |
| 72.5° | 15160.8 | 15163.7 | 15630.3 | 18246.6 | 20950.9 | 20984.7 | 16479.9 | 8761.6  | 4459.3 | 2815.9  | 1782.8  |
| 74°   | 14198.2 | 14223.1 | 14946.5 | 18342.0 | 21454.3 | 21301.6 | 15441.0 | 6886.3  | 3015.4 | 1838.6  | 1285.4  |
| 75°   | 12959.7 | 12802.7 | 13848.9 | 17706.6 | 20931.9 | 20767.5 | 14224.6 | 5526.1  | 2300.8 | 1468.8  | 1125.5  |
| 77.5° | 6928.9  | 7088.8  | 8702.9  | 13213.6 | 17005.2 | 16815.9 | 9644.9  | 2650.1  | 1242.9 | 1022.7  | 810.0   |
| 80°   | 2466.6  | 2720.5  | 3823.9  | 6914.2  | 10902.5 | 10961.2 | 4603.1  | 1215.0  | 874.5  | 754.2   | 572.3   |
| 82.5° | 1006.6  | 1034.5  | 1642.0  | 3068.2  | 5536.3  | 5589.2  | 1879.7  | 721.9   | 625.1  | 519.4   | 341.9   |
| 85°   | 393.3   | 405.0   | 726.3   | 1379.3  | 2362.4  | 2516.5  | 650.0   | 381.5   | 384.4  | 297.9   | 174.6   |
| 87.5° | 132.1   | 149.7   | 297.9   | 459.3   | 802.6   | 786.5   | 189.3   | 113.0   | 137.9  | 129.1   | 54.3    |
| 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°    | 4044.0 | 4044.0 | 4044.0 | 4044.0 | 4044.0 | 4044.0 | 4044.0 | 4044.0 | 4044.0 | 4044.0 | 4044.0 |
| 2.5°  | 4057.2 | 4085.1 | 4104.2 | 4124.7 | 4143.8 | 4149.7 | 4145.3 | 4158.5 | 4160.0 | 4161.4 | 4162.9 |
| 5°    | 4080.7 | 4118.9 | 4155.6 | 4176.1 | 4184.9 | 4177.6 | 4152.6 | 4139.4 | 4127.7 | 4118.9 | 4121.8 |
| 7.5°  | 4113.0 | 4167.3 | 4201.0 | 4209.9 | 4186.4 | 4152.6 | 4091.0 | 4042.6 | 4011.8 | 3991.2 | 3989.7 |
| 10°   | 4162.9 | 4215.7 | 4243.6 | 4218.7 | 4154.1 | 4071.9 | 3975.1 | 3884.1 | 3815.1 | 3794.6 | 3793.1 |
| 12.5° | 4226.0 | 4286.2 | 4284.7 | 4211.3 | 4098.3 | 3951.6 | 3794.6 | 3688.9 | 3595.0 | 3548.1 | 3567.1 |
| 15°   | 4308.2 | 4353.7 | 4311.1 | 4179.0 | 4000.0 | 3799.0 | 3605.3 | 3461.5 | 3355.8 | 3306.0 | 3308.9 |
| 17.5° | 4403.5 | 4443.2 | 4330.2 | 4121.8 | 3862.1 | 3603.8 | 3379.3 | 3242.9 | 3159.2 | 3122.5 | 3119.6 |
| 20°   | 4522.4 | 4534.1 | 4330.2 | 4022.0 | 3684.5 | 3376.4 | 3162.2 | 3066.8 | 3019.8 | 3000.7 | 3006.6 |
| 22.5° | 4650.1 | 4626.6 | 4306.7 | 3881.2 | 3451.2 | 3138.7 | 2994.9 | 2952.3 | 2928.8 | 2925.9 | 2928.8 |
| 25°   | 4793.9 | 4727.8 | 4258.3 | 3690.4 | 3207.6 | 2933.3 | 2849.6 | 2856.9 | 2861.3 | 2861.3 | 2871.6 |
| 27.5° | 4969.9 | 4837.9 | 4177.6 | 3449.8 | 2923.0 | 2742.5 | 2719.0 | 2770.4 | 2793.9 | 2798.3 | 2805.6 |
| 30°   | 5201.8 | 4958.2 | 4044.0 | 3149.0 | 2680.9 | 2570.8 | 2611.9 | 2680.9 | 2707.3 | 2723.4 | 2720.5 |
| 32.5° | 5477.7 | 5090.3 | 3863.6 | 2848.1 | 2485.7 | 2450.5 | 2500.4 | 2570.8 | 2600.2 | 2609.0 | 2597.2 |
| 35°   | 5801.9 | 5239.9 | 3625.8 | 2566.4 | 2315.5 | 2336.0 | 2394.7 | 2416.7 | 2443.2 | 2443.2 | 2449.0 |
| 37.5° | 6151.2 | 5360.3 | 3335.3 | 2308.2 | 2183.4 | 2258.3 | 2300.8 | 2280.3 | 2268.5 | 2253.9 | 2261.2 |
| 40°   | 6506.3 | 5449.8 | 2958.2 | 2052.8 | 2051.4 | 2177.6 | 2189.3 | 2130.6 | 2083.6 | 2069.0 | 2061.6 |
| 42.5° | 6815.9 | 5505.5 | 2617.8 | 1854.7 | 1926.6 | 2098.3 | 2107.1 | 2013.2 | 1938.4 | 1894.4 | 1879.7 |
| 45°   | 7181.3 | 5570.1 | 2284.7 | 1690.4 | 1810.7 | 2035.2 | 2057.2 | 1931.0 | 1821.0 | 1728.5 | 1705.1 |
| 47.5° | 7681.6 | 5716.8 | 2022.0 | 1562.7 | 1727.1 | 1995.6 | 2026.4 | 1863.5 | 1718.3 | 1598.0 | 1578.9 |
| 50°   | 8246.6 | 5917.9 | 1818.1 | 1476.2 | 1662.5 | 1960.4 | 1998.5 | 1794.6 | 1622.9 | 1489.4 | 1474.7 |
| 52.5° | 8764.5 | 6026.4 | 1642.0 | 1398.4 | 1599.4 | 1895.8 | 1961.9 | 1744.7 | 1529.0 | 1380.8 | 1367.6 |
| 55°   | 9047.7 | 5850.4 | 1468.8 | 1322.1 | 1512.8 | 1812.2 | 1910.5 | 1675.7 | 1438.0 | 1323.6 | 1304.5 |
| 57.5° | 9085.9 | 5486.5 | 1311.8 | 1239.9 | 1421.9 | 1709.5 | 1815.1 | 1592.1 | 1379.3 | 1283.9 | 1267.8 |
| 60°   | 8790.9 | 4943.5 | 1190.0 | 1172.4 | 1329.4 | 1593.6 | 1708.0 | 1518.7 | 1319.2 | 1239.9 | 1223.8 |
| 62.5° | 8057.3 | 4353.7 | 1104.9 | 1110.8 | 1235.5 | 1471.8 | 1628.8 | 1448.3 | 1261.9 | 1191.5 | 1176.8 |
| 65°   | 6795.3 | 3593.6 | 1022.7 | 1047.7 | 1151.9 | 1376.4 | 1556.9 | 1389.6 | 1204.7 | 1154.8 | 1141.6 |
| 67.5° | 4720.5 | 2594.3 | 955.3  | 981.7  | 1072.6 | 1279.5 | 1473.2 | 1326.5 | 1140.1 | 1113.7 | 1093.2 |
| 70°   | 2613.4 | 1596.5 | 876.0  | 906.8  | 990.5  | 1171.0 | 1379.3 | 1231.1 | 1046.2 | 1034.5 | 1005.1 |
| 72.5° | 1373.4 | 1016.9 | 786.5  | 820.3  | 878.9  | 1031.6 | 1235.5 | 1126.9 | 953.8  | 903.9  | 865.7  |
| 74°   | 1072.6 | 833.5  | 726.3  | 761.6  | 801.2  | 949.4  | 1150.4 | 1052.1 | 887.8  | 829.1  | 799.7  |
| 75°   | 934.7  | 742.5  | 675.0  | 720.5  | 755.7  | 893.6  | 1084.4 | 999.3  | 851.1  | 795.3  | 768.9  |
| 77.5° | 660.3  | 556.1  | 551.7  | 606.0  | 625.1  | 783.6  | 977.3  | 909.8  | 758.6  | 699.9  | 675.0  |
| 80°   | 463.7  | 416.7  | 437.3  | 471.0  | 497.4  | 692.6  | 906.8  | 786.5  | 622.2  | 553.2  | 544.4  |
| 82.5° | 302.3  | 272.9  | 312.5  | 343.4  | 352.2  | 510.6  | 732.2  | 597.2  | 453.4  | 368.3  | 341.9  |
| 85°   | 139.4  | 136.5  | 179.0  | 174.6  | 173.1  | 249.5  | 434.3  | 349.2  | 261.2  | 195.2  | 183.4  |
| 87.5° | 35.2   | 33.7   | 44.0   | 36.7   | 44.0   | 38.2   | 39.6   | 10.3   | 1.5    | 0.0    | 0.0    |
| 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)