

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: P531036

Luminaire Tested: **GALN-SA6B-740-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531036  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6B-740-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30448 lumens  
Efficiency: N/A  
Efficacy: 125.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

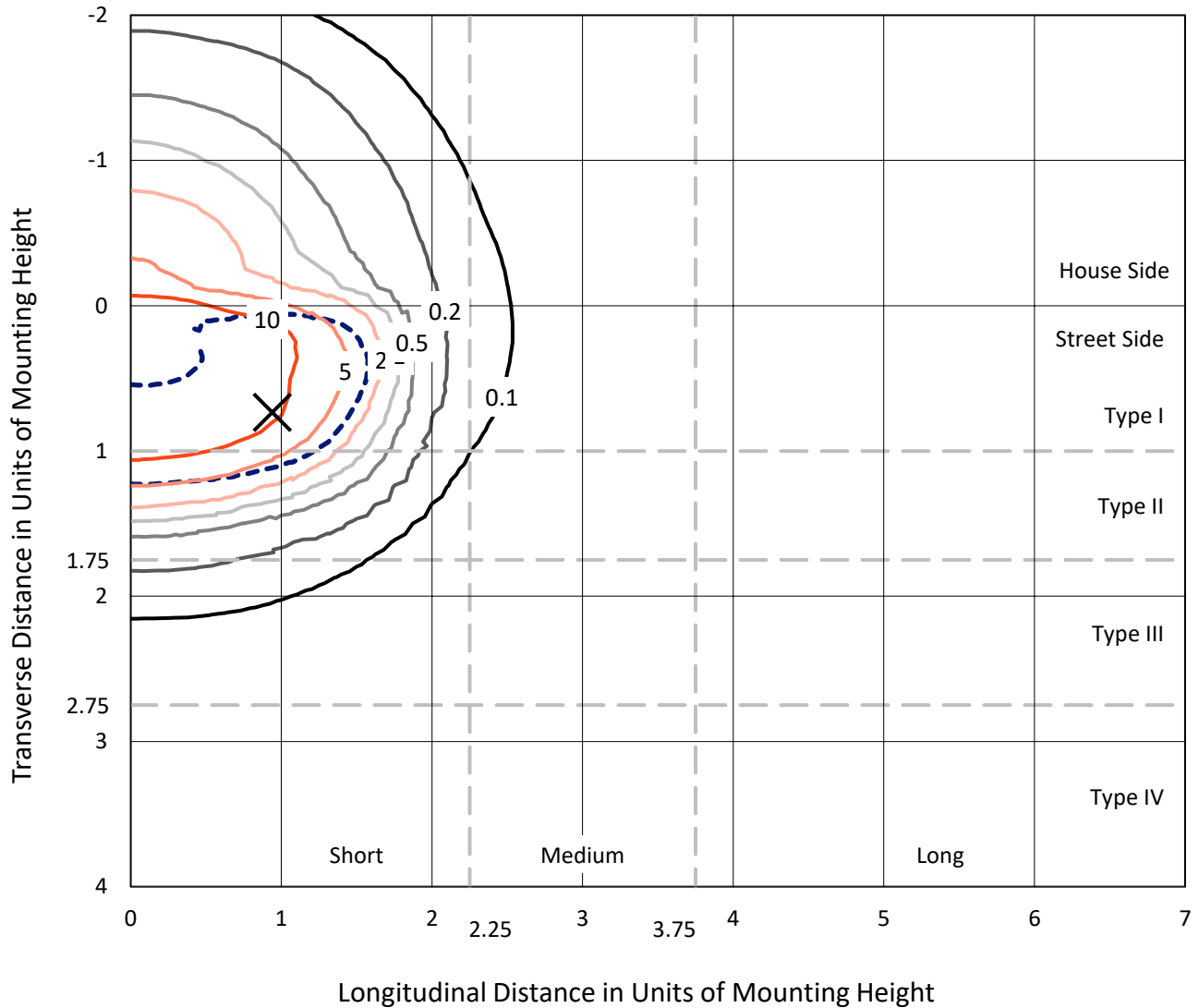
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

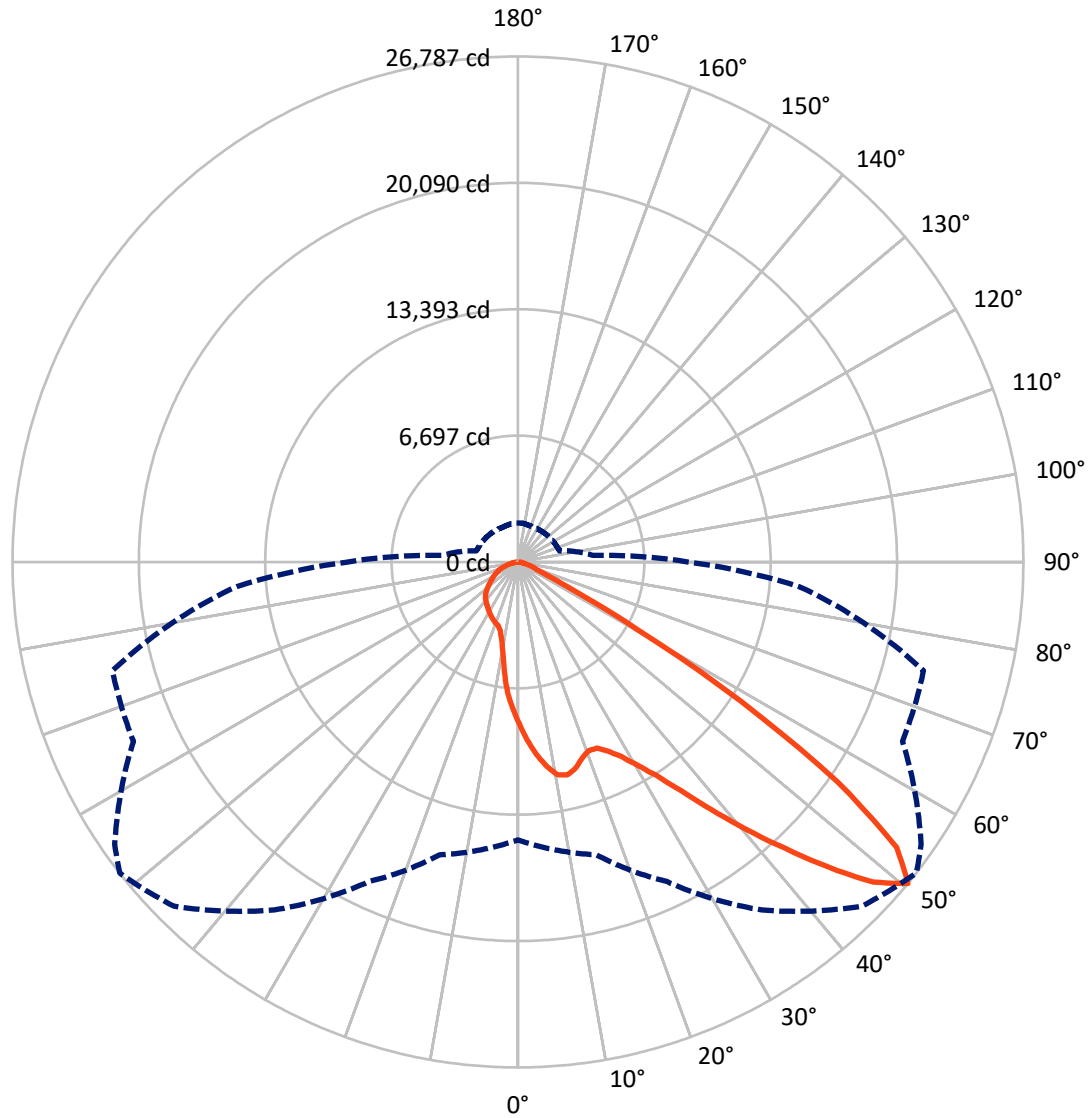
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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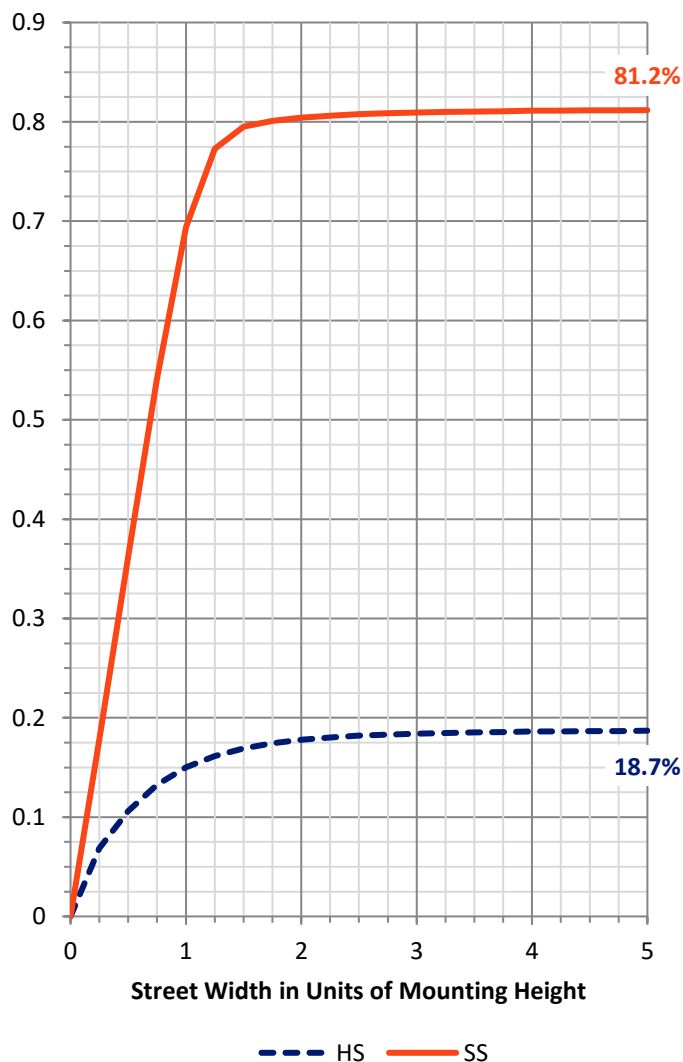
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5723.5   | 0.0    | 5723.5  |
|                    | % Fixture | 18.8     | 0.0    | 18.8    |
| <b>Street Side</b> | Lumens    | 24724.5  | 0.0    | 24724.5 |
|                    | % Fixture | 81.2     | 0.0    | 81.2    |
| <b>Total</b>       | Lumens    | 30448.0  | 0.0    | 30448.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 791.1   | 2.6       |
| 10°-20°   | 2120.3  | 7.0       |
| 20°-30°   | 3571.5  | 11.7      |
| 30°-40°   | 5993.3  | 19.7      |
| 40°-50°   | 9168.3  | 30.1      |
| 50°-60°   | 6684.4  | 22.0      |
| 60°-70°   | 1487.6  | 4.9       |
| 70°-80°   | 536.6   | 1.8       |
| 80°-90°   | 95.0    | 0.3       |
| 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°    | 30448.0 | 100.0     |
| 0°-180°   | 30448.0 | 100.0     |

**Coefficient of Utilization**



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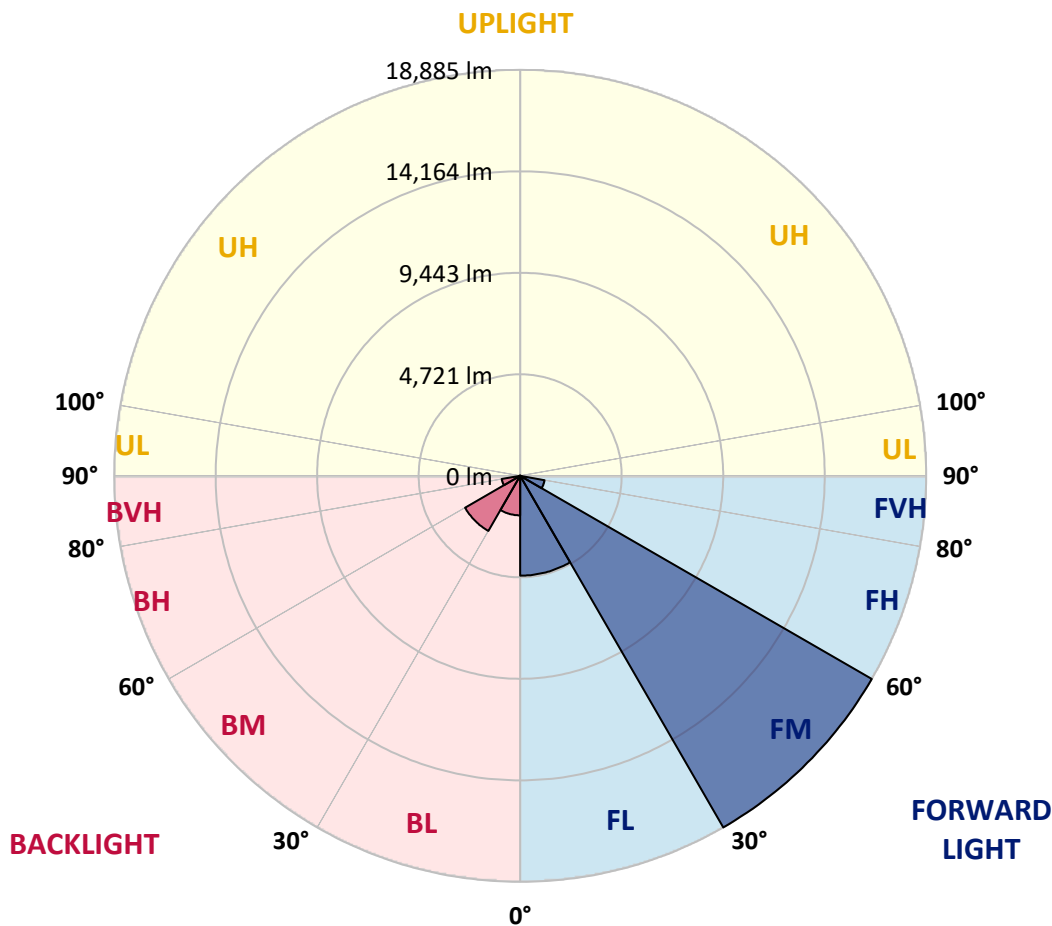
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 4644.4  | 15.3      |                         |      |         |
| FM (30°-60°)   | 18885.4 | 62.0      |                         |      |         |
| FH (60°-80°)   | 1152.2  | 3.8       |                         |      | G1/1800 |
| FVH (80°-90°)  | 42.6    | 0.1       |                         |      | G1/100  |
| BL (0°-30°)    | 1838.5  | 6.0       | B3/2500                 |      |         |
| BM (30°-60°)   | 2960.6  | 9.7       | B3/5000                 |      |         |
| BH (60°-80°)   | 872.0   | 2.9       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 52.4    | 0.2       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 52°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 8582.8  | 8582.8  | 8582.8  | 8582.8  | 8582.8  | 8582.8  | 8582.8  | 8582.8  | 8582.8  | 8582.8  | 8582.8  |
| 2.5°  | 10105.6 | 9911.1  | 9933.1  | 9793.7  | 9643.3  | 9599.2  | 9445.1  | 9298.3  | 9188.2  | 8953.4  | 8736.9  |
| 5°    | 11045.0 | 10986.3 | 10898.2 | 10788.1 | 10674.4 | 10395.5 | 10237.7 | 10054.2 | 9650.6  | 9287.3  | 8927.7  |
| 7.5°  | 11180.7 | 11169.7 | 11217.4 | 11217.4 | 11257.8 | 11151.4 | 10927.5 | 10799.1 | 10369.8 | 9779.0  | 9111.2  |
| 10°   | 10226.7 | 10259.7 | 10490.9 | 10791.8 | 11210.1 | 11500.0 | 11463.3 | 11430.3 | 10960.6 | 10153.3 | 9327.7  |
| 12.5° | 9467.1  | 9393.7  | 9529.5  | 9786.4  | 10413.8 | 11114.7 | 11588.0 | 11591.7 | 11470.6 | 10751.4 | 9485.5  |
| 15°   | 9037.8  | 9089.2  | 9125.9  | 9247.0  | 9720.3  | 10531.3 | 11364.2 | 11610.1 | 12142.1 | 11173.4 | 9735.0  |
| 17.5° | 9313.0  | 9140.5  | 9133.2  | 9162.6  | 9404.7  | 10013.9 | 10949.6 | 11371.5 | 12509.1 | 11716.5 | 10043.2 |
| 20°   | 9672.6  | 9668.9  | 9566.2  | 9529.5  | 9525.8  | 10068.9 | 10678.0 | 11250.5 | 12703.6 | 12421.0 | 10355.1 |
| 22.5° | 10303.7 | 10303.7 | 10135.0 | 10054.2 | 9881.8  | 10325.8 | 10714.7 | 11103.7 | 13026.5 | 12905.4 | 10505.6 |
| 25°   | 11360.5 | 11188.1 | 10898.2 | 10700.0 | 10601.0 | 10758.8 | 11103.7 | 11452.3 | 13309.0 | 13419.1 | 10817.5 |
| 27.5° | 12336.6 | 12065.1 | 11922.0 | 11580.7 | 11448.6 | 11356.9 | 11672.4 | 12024.7 | 13639.3 | 14219.0 | 10986.3 |
| 30°   | 13444.8 | 13397.1 | 13140.2 | 12699.9 | 12373.3 | 12204.5 | 12494.4 | 12843.0 | 14244.7 | 15037.3 | 11375.2 |
| 32.5° | 15426.3 | 14993.3 | 14644.7 | 14105.3 | 13573.2 | 13213.6 | 13499.8 | 13731.0 | 15250.1 | 15892.3 | 11800.9 |
| 35°   | 17565.5 | 17426.1 | 16824.3 | 15851.9 | 15037.3 | 14714.4 | 14883.2 | 15055.7 | 16420.7 | 17198.6 | 12516.4 |
| 37.5° | 19668.1 | 19477.3 | 18981.9 | 18163.7 | 17172.9 | 16516.1 | 16637.2 | 16839.0 | 17734.3 | 18959.9 | 13389.7 |
| 40°   | 21179.9 | 20945.1 | 20695.6 | 20574.5 | 19591.1 | 18692.1 | 18622.3 | 18673.7 | 19510.3 | 20611.2 | 14358.5 |
| 42.5° | 21290.0 | 21579.9 | 21656.9 | 22145.0 | 21913.8 | 21176.3 | 20746.9 | 20757.9 | 21205.6 | 22244.1 | 15338.2 |
| 45°   | 21058.8 | 20791.0 | 21359.7 | 22691.7 | 23455.0 | 23799.9 | 23077.0 | 22985.3 | 22255.1 | 23190.8 | 15826.2 |
| 47.5° | 18633.3 | 18706.7 | 19668.1 | 21774.4 | 23979.7 | 25520.9 | 25352.1 | 25047.5 | 22816.5 | 23157.7 | 15749.2 |
| 50°   | 14729.1 | 15173.1 | 16064.7 | 18688.4 | 22511.9 | 25792.4 | 26786.8 | 26082.3 | 22482.6 | 22247.7 | 14963.9 |
| 52.5° | 9808.4  | 9991.8  | 10579.0 | 13965.8 | 18101.3 | 23055.0 | 25135.6 | 25297.0 | 22174.3 | 21055.2 | 13969.5 |
| 55°   | 4366.6  | 4351.9  | 5177.6  | 7294.8  | 11356.9 | 17543.5 | 20537.8 | 21521.2 | 20989.1 | 19840.6 | 13000.8 |
| 57.5° | 1849.4  | 1911.8  | 2249.4  | 3152.0  | 5584.9  | 10586.3 | 13914.5 | 14776.8 | 16141.8 | 16292.2 | 9973.5  |
| 60°   | 1251.3  | 1258.6  | 1350.3  | 1577.9  | 2337.4  | 4972.1  | 7298.5  | 8333.3  | 9309.3  | 9243.3  | 5291.3  |
| 62.5° | 983.4   | 1009.1  | 1078.8  | 1170.5  | 1387.0  | 2256.7  | 3265.8  | 3841.9  | 3904.3  | 3284.1  | 2007.2  |
| 65°   | 840.3   | 844.0   | 913.7   | 990.7   | 1086.1  | 1313.7  | 1574.2  | 1603.5  | 1621.9  | 1563.2  | 1475.1  |
| 67.5° | 693.5   | 700.9   | 755.9   | 844.0   | 932.0   | 1005.4  | 1078.8  | 1115.5  | 1199.9  | 1365.0  | 1343.0  |
| 70°   | 550.4   | 561.4   | 609.1   | 682.5   | 763.2   | 807.3   | 899.0   | 932.0   | 1009.1  | 1137.5  | 1188.9  |
| 72.5° | 418.3   | 422.0   | 462.3   | 513.7   | 587.1   | 631.1   | 708.2   | 744.9   | 796.3   | 906.3   | 954.1   |
| 75°   | 300.9   | 311.9   | 341.3   | 366.9   | 378.0   | 407.3   | 480.7   | 521.1   | 594.4   | 642.1   | 645.8   |
| 77.5° | 157.8   | 165.1   | 172.5   | 172.5   | 209.2   | 264.2   | 311.9   | 333.9   | 385.3   | 422.0   | 403.6   |
| 80°   | 62.4    | 66.0    | 84.4    | 113.8   | 146.8   | 190.8   | 223.8   | 234.8   | 278.9   | 300.9   | 311.9   |
| 82.5° | 36.7    | 40.4    | 55.0    | 80.7    | 106.4   | 135.8   | 161.5   | 172.5   | 201.8   | 227.5   | 234.8   |
| 85°   | 18.3    | 22.0    | 33.0    | 51.4    | 69.7    | 84.4    | 80.7    | 77.1    | 77.1    | 73.4    | 77.1    |
| 87.5° | 7.3     | 7.3     | 11.0    | 11.0    | 11.0    | 14.7    | 18.3    | 18.3    | 18.3    | 22.0    | 22.0    |
| 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°    | 8582.8 | 8582.8 | 8582.8 | 8582.8 | 8582.8 | 8582.8 | 8582.8 | 8582.8 | 8582.8 | 8582.8 | 8582.8 |
| 2.5°  | 8593.8 | 8447.0 | 8311.2 | 8061.7 | 7790.2 | 7713.1 | 7397.6 | 7283.8 | 7203.1 | 7107.7 | 7078.3 |
| 5°    | 8637.8 | 8443.3 | 8006.7 | 7504.0 | 7104.0 | 6590.3 | 6252.7 | 5889.4 | 5625.2 | 5559.2 | 5540.8 |
| 7.5°  | 8729.6 | 8395.6 | 7643.4 | 6883.8 | 6065.6 | 5368.4 | 4836.3 | 4550.1 | 4296.9 | 4282.2 | 4256.5 |
| 10°   | 8832.3 | 8252.5 | 7247.1 | 6054.6 | 5008.8 | 4362.9 | 4043.7 | 3918.9 | 3856.6 | 3841.9 | 3834.5 |
| 12.5° | 8916.7 | 8223.2 | 6803.1 | 5247.3 | 4260.2 | 3871.2 | 3775.8 | 3764.8 | 3790.5 | 3797.9 | 3812.5 |
| 15°   | 8953.4 | 8105.8 | 6267.4 | 4524.4 | 3794.2 | 3651.1 | 3691.4 | 3735.5 | 3753.8 | 3801.5 | 3764.8 |
| 17.5° | 9023.1 | 7955.3 | 5606.9 | 3952.0 | 3533.7 | 3559.3 | 3629.1 | 3680.4 | 3709.8 | 3742.8 | 3695.1 |
| 20°   | 9059.8 | 7819.5 | 4986.7 | 3610.7 | 3441.9 | 3489.6 | 3585.0 | 3625.4 | 3662.1 | 3676.8 | 3621.7 |
| 22.5° | 9026.8 | 7540.7 | 4440.0 | 3335.5 | 3353.9 | 3416.2 | 3500.6 | 3544.7 | 3522.6 | 3463.9 | 3430.9 |
| 25°   | 8938.7 | 7148.0 | 3871.2 | 3159.4 | 3229.1 | 3339.2 | 3405.2 | 3372.2 | 3331.8 | 3298.8 | 3287.8 |
| 27.5° | 8935.1 | 6667.3 | 3460.3 | 2997.9 | 3122.7 | 3273.1 | 3251.1 | 3221.8 | 3240.1 | 3214.4 | 3185.1 |
| 30°   | 8953.4 | 6201.3 | 3122.7 | 2906.2 | 3045.6 | 3119.0 | 3144.7 | 3115.3 | 3137.4 | 3089.7 | 3104.3 |
| 32.5° | 8858.0 | 5746.3 | 2902.5 | 2799.8 | 2953.9 | 2950.2 | 3034.6 | 3056.6 | 3005.3 | 2906.2 | 2920.9 |
| 35°   | 8898.4 | 5379.4 | 2715.4 | 2752.1 | 2851.1 | 2851.1 | 2917.2 | 2891.5 | 2755.7 | 2697.0 | 2711.7 |
| 37.5° | 9177.2 | 5019.8 | 2623.6 | 2686.0 | 2752.1 | 2781.4 | 2759.4 | 2649.3 | 2616.3 | 2616.3 | 2623.6 |
| 40°   | 9441.4 | 4711.5 | 2568.6 | 2671.3 | 2660.3 | 2678.7 | 2517.2 | 2528.2 | 2528.2 | 2531.9 | 2513.6 |
| 42.5° | 9676.3 | 4502.4 | 2524.6 | 2583.3 | 2601.6 | 2506.2 | 2407.1 | 2396.1 | 2421.8 | 2418.2 | 2403.5 |
| 45°   | 9760.7 | 4329.9 | 2462.2 | 2484.2 | 2498.9 | 2341.1 | 2293.4 | 2271.4 | 2300.7 | 2311.7 | 2326.4 |
| 47.5° | 9437.8 | 4186.8 | 2392.5 | 2348.4 | 2319.1 | 2216.3 | 2154.0 | 2113.6 | 2150.3 | 2212.7 | 2227.3 |
| 50°   | 9023.1 | 3999.7 | 2282.4 | 2198.0 | 2135.6 | 2091.6 | 2047.5 | 2007.2 | 2032.9 | 2076.9 | 2065.9 |
| 52.5° | 8410.3 | 3706.1 | 2142.9 | 2054.9 | 1948.5 | 1959.5 | 1919.1 | 1897.1 | 1911.8 | 1911.8 | 1900.8 |
| 55°   | 7537.0 | 3045.6 | 1908.1 | 1845.7 | 1757.7 | 1787.0 | 1794.3 | 1765.0 | 1735.6 | 1761.3 | 1739.3 |
| 57.5° | 5144.5 | 2150.3 | 1702.6 | 1702.6 | 1614.5 | 1654.9 | 1651.2 | 1581.5 | 1511.8 | 1519.1 | 1504.5 |
| 60°   | 2975.9 | 1713.6 | 1570.5 | 1555.8 | 1464.1 | 1497.1 | 1504.5 | 1456.8 | 1350.3 | 1357.7 | 1343.0 |
| 62.5° | 1691.6 | 1464.1 | 1372.4 | 1350.3 | 1332.0 | 1361.4 | 1361.4 | 1299.0 | 1207.2 | 1214.6 | 1199.9 |
| 65°   | 1438.4 | 1357.7 | 1225.6 | 1221.9 | 1214.6 | 1221.9 | 1192.6 | 1126.5 | 1045.8 | 1012.8 | 1016.4 |
| 67.5° | 1306.3 | 1254.9 | 1126.5 | 1093.5 | 1071.5 | 1067.8 | 1012.8 | 950.4  | 913.7  | 884.3  | 880.7  |
| 70°   | 1144.9 | 1104.5 | 1009.1 | 965.1  | 943.0  | 891.7  | 836.6  | 796.3  | 744.9  | 730.2  | 744.9  |
| 72.5° | 906.3  | 902.7  | 866.0  | 818.3  | 770.6  | 730.2  | 682.5  | 627.5  | 579.8  | 568.8  | 543.1  |
| 75°   | 627.5  | 634.8  | 642.1  | 634.8  | 594.4  | 543.1  | 488.0  | 444.0  | 385.3  | 352.3  | 344.9  |
| 77.5° | 411.0  | 422.0  | 433.0  | 418.3  | 392.6  | 344.9  | 308.2  | 253.2  | 209.2  | 183.5  | 179.8  |
| 80°   | 300.9  | 315.6  | 322.9  | 311.9  | 282.5  | 245.9  | 205.5  | 161.5  | 128.4  | 106.4  | 106.4  |
| 82.5° | 231.2  | 245.9  | 253.2  | 234.8  | 205.5  | 176.1  | 146.8  | 113.8  | 88.1   | 69.7   | 66.0   |
| 85°   | 80.7   | 77.1   | 91.7   | 95.4   | 113.8  | 106.4  | 88.1   | 66.0   | 51.4   | 36.7   | 33.0   |
| 87.5° | 22.0   | 22.0   | 25.7   | 25.7   | 22.0   | 18.3   | 18.3   | 18.3   | 14.7   | 11.0   | 11.0   |
| 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)