

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: P530063

Luminaire Tested: **GALN-SA5B-730-U-T3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530063  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5B-730-U-T3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15497 lumens  
Efficiency: N/A  
Efficacy: 76.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

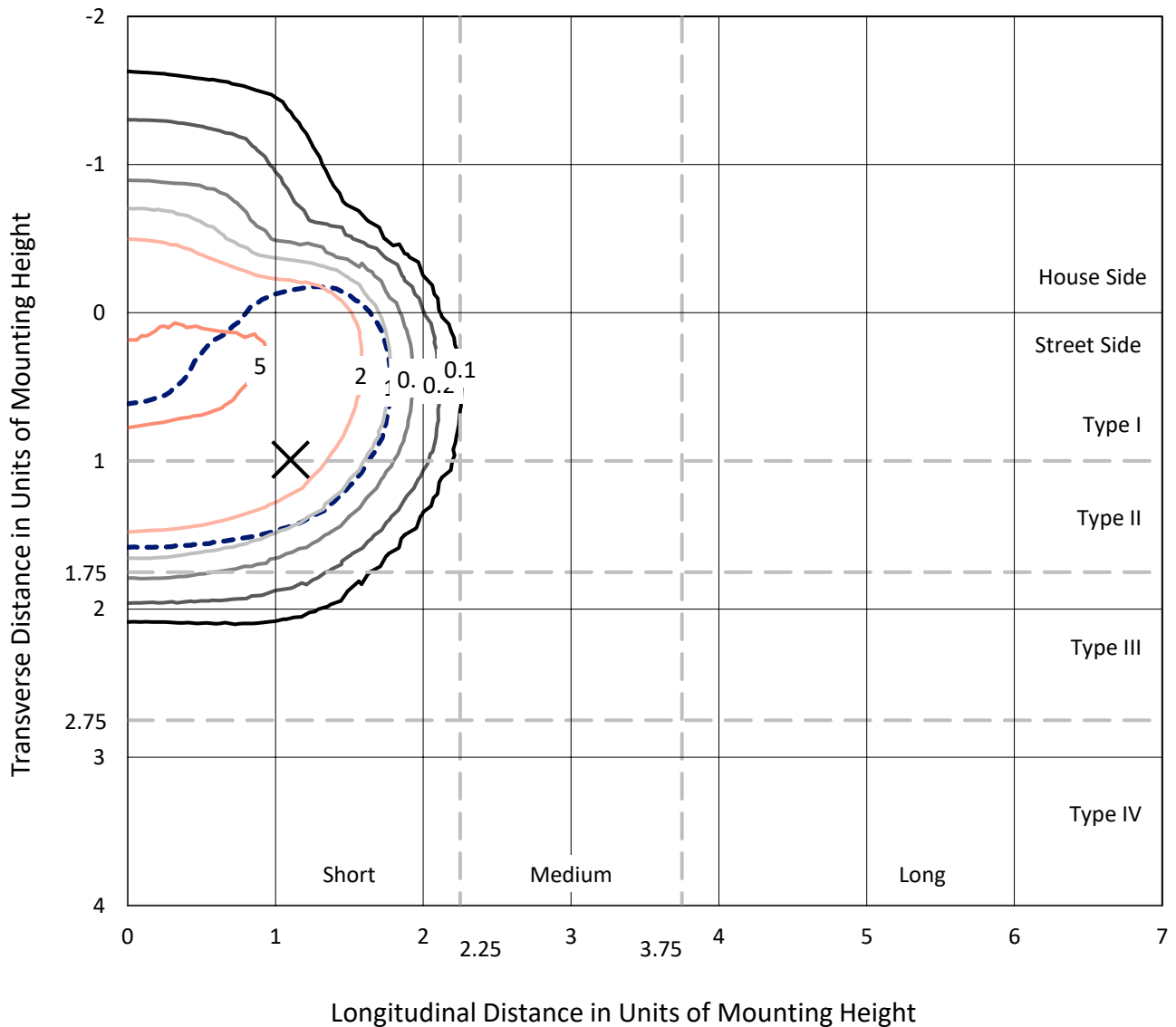
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

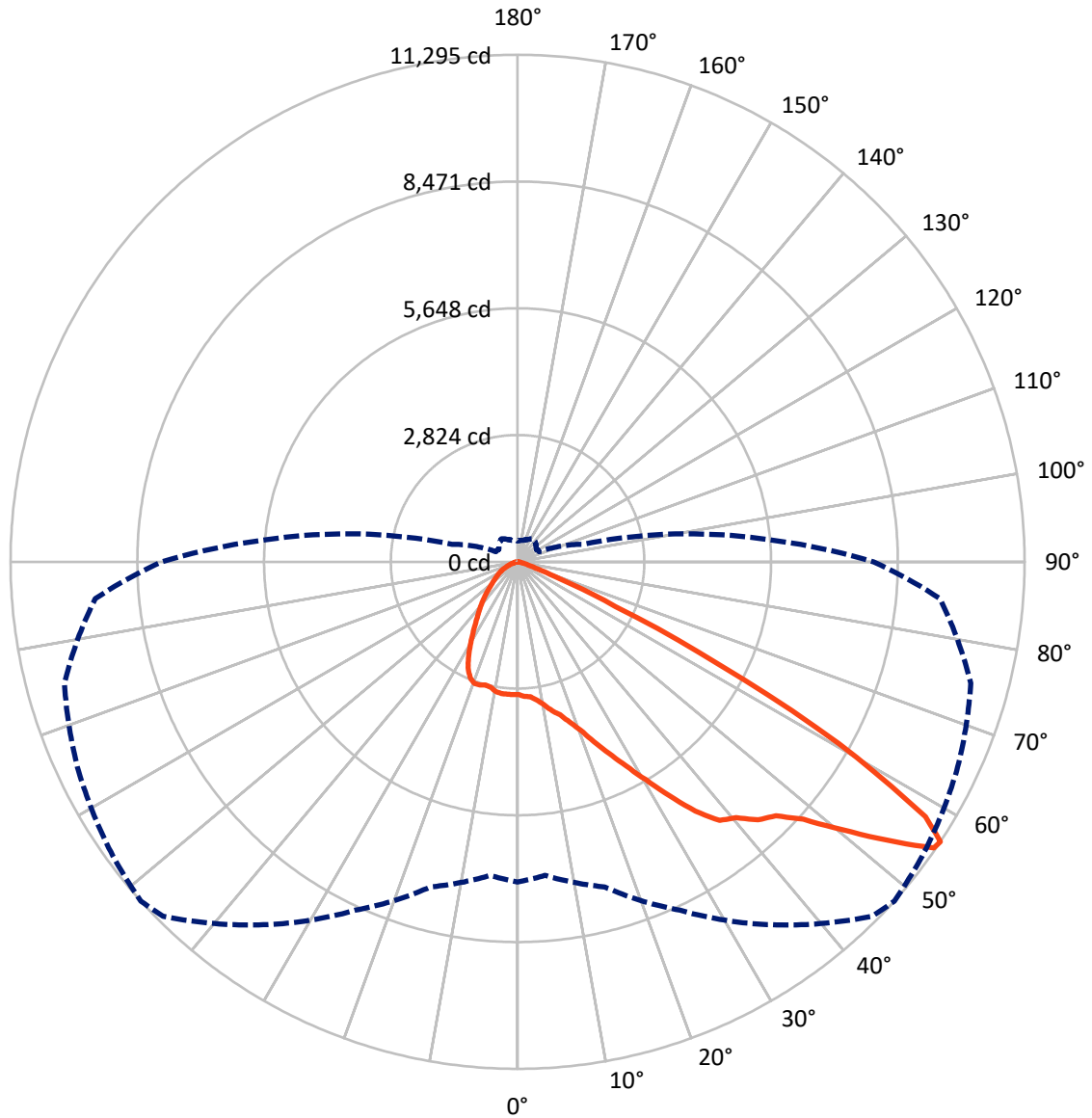
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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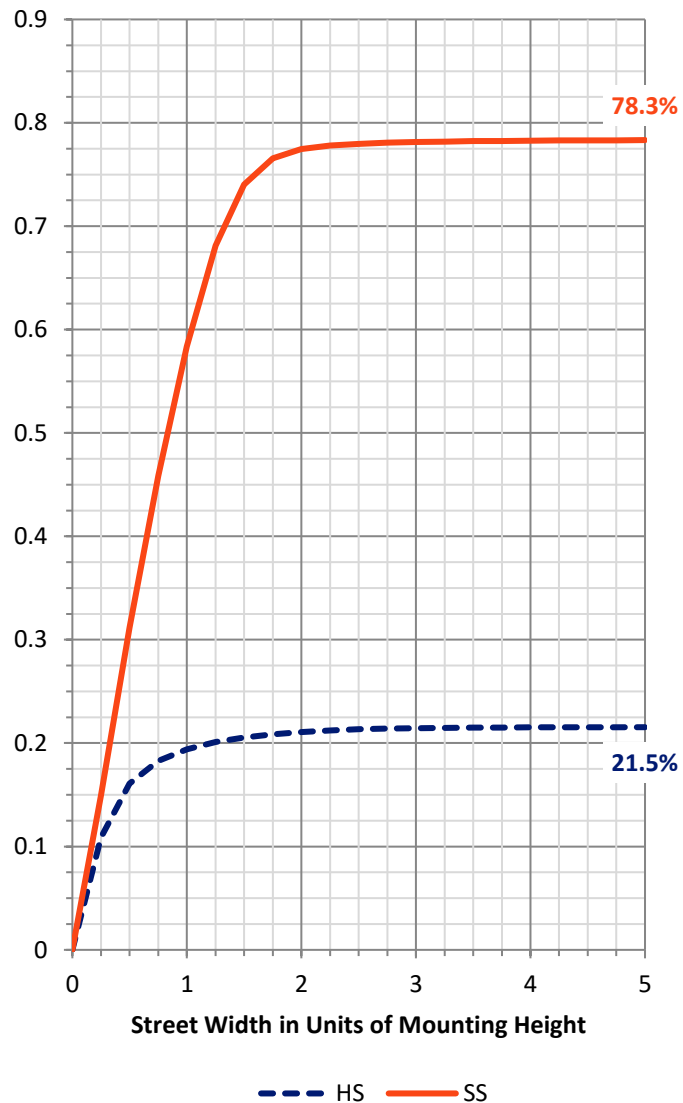
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3370.3   | 0.0    | 3370.3  |
|                    | % Fixture | 21.7     | 0.0    | 21.7    |
| <b>Street Side</b> | Lumens    | 12126.7  | 0.0    | 12126.7 |
|                    | % Fixture | 78.3     | 0.0    | 78.3    |
| <b>Total</b>       | Lumens    | 15497.0  | 0.0    | 15497.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 288.3   | 1.9       |
| 10°-20°   | 921.5   | 5.9       |
| 20°-30°   | 1671.3  | 10.8      |
| 30°-40°   | 2625.3  | 16.9      |
| 40°-50°   | 3829.9  | 24.7      |
| 50°-60°   | 4614.3  | 29.8      |
| 60°-70°   | 1351.0  | 8.7       |
| 70°-80°   | 171.4   | 1.1       |
| 80°-90°   | 24.0    | 0.2       |
| 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°    | 15497.0 | 100.0     |
| 0°-180°   | 15497.0 | 100.0     |

**Coefficient of Utilization**

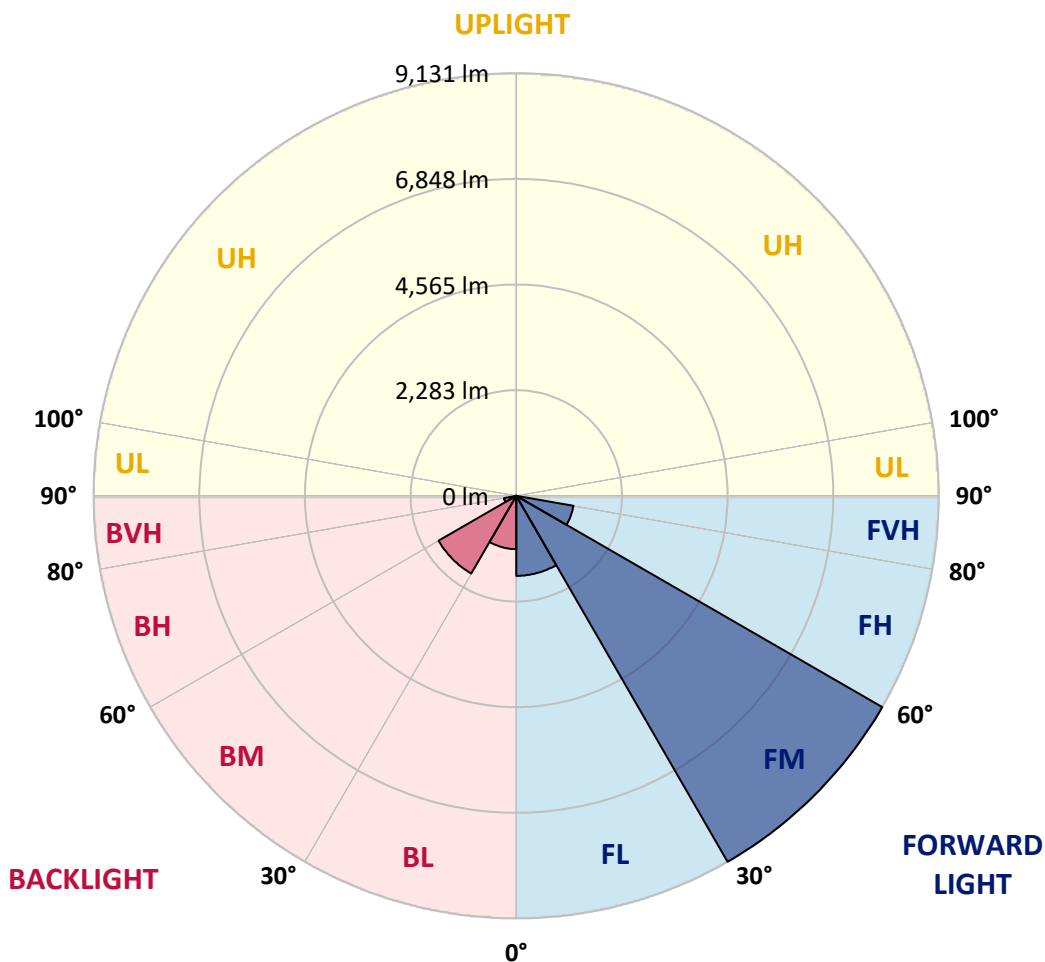


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1729.2 | 11.2      |                         |      |         |
| FM (30°-60°)   | 9130.9 | 58.9      |                         |      |         |
| FH (60°-80°)   | 1254.6 | 8.1       |                         |      | G1/1800 |
| FVH (80°-90°)  | 12.1   | 0.1       |                         |      | G1/100  |
| BL (0°-30°)    | 1152.0 | 7.4       | B3/2500                 |      |         |
| BM (30°-60°)   | 1938.6 | 12.5      | B2/2500                 |      |         |
| BH (60°-80°)   | 267.8  | 1.7       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 12.0   | 0.1       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°     | 45°     | 48°     | 55°     | 65°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2959.9 | 2959.9 | 2959.9 | 2959.9 | 2959.9  | 2959.9  | 2959.9  | 2959.9  | 2959.9  | 2959.9  | 2959.9  |
| 2.5°  | 3013.5 | 2999.4 | 2999.4 | 2976.9 | 3002.3  | 2991.0  | 2999.4  | 2971.2  | 2999.4  | 2957.1  | 2991.0  |
| 5°    | 3027.7 | 3030.5 | 3019.2 | 3033.3 | 3033.3  | 3050.2  | 3022.0  | 3047.4  | 3061.5  | 3030.5  | 3016.4  |
| 7.5°  | 3101.0 | 3106.7 | 3103.8 | 3092.6 | 3115.1  | 3112.3  | 3109.5  | 3089.7  | 3095.4  | 3084.1  | 3067.2  |
| 10°   | 3244.9 | 3242.1 | 3256.2 | 3228.0 | 3211.1  | 3230.8  | 3236.5  | 3205.4  | 3182.8  | 3174.4  | 3120.8  |
| 12.5° | 3453.7 | 3419.9 | 3400.1 | 3371.9 | 3380.4  | 3352.1  | 3402.9  | 3349.3  | 3338.0  | 3287.2  | 3233.6  |
| 15°   | 3623.0 | 3617.4 | 3620.2 | 3575.1 | 3524.3  | 3535.6  | 3535.6  | 3507.3  | 3490.4  | 3428.3  | 3352.1  |
| 17.5° | 3970.1 | 3851.6 | 3877.0 | 3820.5 | 3778.2  | 3775.4  | 3750.0  | 3755.6  | 3710.5  | 3580.7  | 3465.0  |
| 20°   | 4241.0 | 4190.2 | 4150.7 | 4054.7 | 3989.8  | 4009.6  | 3998.3  | 3970.1  | 3956.0  | 3786.7  | 3623.0  |
| 22.5° | 4483.6 | 4500.6 | 4435.7 | 4410.3 | 4320.0  | 4328.4  | 4351.0  | 4325.6  | 4218.4  | 4043.5  | 3800.8  |
| 25°   | 4825.1 | 4805.3 | 4717.8 | 4686.8 | 4602.1  | 4633.2  | 4720.7  | 4700.9  | 4633.2  | 4317.2  | 3939.1  |
| 27.5° | 5228.6 | 5160.8 | 5177.8 | 5036.7 | 4954.9  | 5042.3  | 5146.7  | 5245.5  | 5053.6  | 4638.8  | 4102.7  |
| 30°   | 5513.5 | 5443.0 | 5437.4 | 5431.7 | 5412.0  | 5513.5  | 5634.9  | 5725.2  | 5570.0  | 4960.5  | 4373.6  |
| 32.5° | 5654.6 | 5671.6 | 5719.5 | 5702.6 | 5874.7  | 6083.5  | 6210.5  | 6340.3  | 6145.6  | 5485.3  | 4731.9  |
| 35°   | 6029.9 | 5922.7 | 6029.9 | 6041.2 | 6219.0  | 6662.0  | 6822.8  | 7133.2  | 7085.2  | 6227.4  | 5169.3  |
| 37.5° | 6250.0 | 6241.5 | 6255.6 | 6362.9 | 6535.0  | 7082.4  | 7311.0  | 7550.8  | 7460.5  | 6673.3  | 5713.9  |
| 40°   | 6614.0 | 6636.6 | 6633.8 | 6715.6 | 6904.6  | 7398.4  | 7491.5  | 7686.2  | 7694.7  | 7291.2  | 6515.2  |
| 42.5° | 7198.1 | 7107.8 | 7048.5 | 7133.2 | 7398.4  | 7672.1  | 7858.4  | 7818.9  | 8098.2  | 8041.8  | 7545.2  |
| 45°   | 7722.9 | 7776.5 | 7689.1 | 7830.1 | 7926.1  | 8072.8  | 8067.2  | 8151.8  | 8507.3  | 8775.4  | 8321.1  |
| 47.5° | 8213.9 | 8247.7 | 8290.1 | 8386.0 | 8594.8  | 8617.4  | 8569.4  | 8532.7  | 9023.7  | 9300.2  | 8922.1  |
| 50°   | 8507.3 | 8538.4 | 8735.9 | 8908.0 | 9297.4  | 9348.2  | 9376.4  | 9283.3  | 9616.3  | 9647.3  | 9489.3  |
| 52.5° | 8428.3 | 8462.2 | 8738.7 | 9305.9 | 9926.6  | 10392.2 | 10307.6 | 10149.6 | 10129.8 | 10251.1 | 10014.1 |
| 55°   | 7728.6 | 7697.5 | 8078.4 | 8961.6 | 10124.2 | 11241.5 | 11252.8 | 11086.3 | 10767.5 | 10685.7 | 9935.1  |
| 56°   | 7133.2 | 7011.9 | 7497.2 | 8563.8 | 9870.2  | 11168.2 | 11295.2 | 11117.4 | 10818.3 | 10451.5 | 9447.0  |
| 57.5° | 5843.7 | 5959.4 | 6441.9 | 7325.1 | 8992.7  | 10640.5 | 10713.9 | 10671.6 | 10445.8 | 9830.7  | 8312.6  |
| 60°   | 3222.3 | 3425.5 | 3851.6 | 4932.3 | 6402.4  | 8165.9  | 8225.2  | 8569.4  | 8611.7  | 7528.2  | 5719.5  |
| 62.5° | 1368.5 | 1345.9 | 1788.9 | 2584.7 | 3645.6  | 4929.5  | 5039.5  | 5392.2  | 5457.1  | 4339.7  | 2869.6  |
| 65°   | 555.9  | 586.9  | 809.8  | 1300.8 | 1927.2  | 2246.1  | 2401.2  | 2516.9  | 2731.4  | 1791.8  | 1058.1  |
| 67.5° | 366.8  | 364.0  | 476.9  | 742.1  | 1038.4  | 1001.7  | 1001.7  | 1058.1  | 979.1   | 730.8   | 457.1   |
| 70°   | 262.4  | 270.9  | 341.4  | 513.5  | 646.2   | 479.7   | 459.9   | 440.2   | 499.4   | 482.5   | 369.6   |
| 72.5° | 172.1  | 183.4  | 228.6  | 307.6  | 335.8   | 262.4   | 262.4   | 316.0   | 412.0   | 389.4   | 301.9   |
| 75°   | 112.9  | 115.7  | 141.1  | 177.8  | 166.5   | 135.4   | 149.5   | 211.6   | 299.1   | 287.8   | 214.4   |
| 77.5° | 76.2   | 79.0   | 95.9   | 115.7  | 93.1    | 76.2    | 81.8    | 107.2   | 146.7   | 146.7   | 112.9   |
| 80°   | 28.2   | 31.0   | 39.5   | 36.7   | 42.3    | 53.6    | 59.3    | 73.4    | 87.5    | 87.5    | 76.2    |
| 82.5° | 0.0    | 2.8    | 8.5    | 19.8   | 31.0    | 42.3    | 48.0    | 56.4    | 64.9    | 73.4    | 70.5    |
| 85°   | 0.0    | 2.8    | 8.5    | 14.1   | 22.6    | 25.4    | 28.2    | 19.8    | 16.9    | 16.9    | 14.1    |
| 87.5° | 0.0    | 0.0    | 2.8    | 2.8    | 2.8     | 2.8     | 2.8     | 2.8     | 5.6     | 2.8     | 2.8     |
| 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°    | 2959.9 | 2959.9 | 2959.9 | 2959.9 | 2959.9 | 2959.9 | 2959.9 | 2959.9 | 2959.9 | 2959.9 | 2959.9 |
| 2.5°  | 2959.9 | 2957.1 | 2957.1 | 2948.6 | 2965.6 | 2957.1 | 2962.8 | 2959.9 | 2923.3 | 2951.5 | 2931.7 |
| 5°    | 2991.0 | 3010.7 | 2979.7 | 2974.0 | 2951.5 | 2959.9 | 2959.9 | 2931.7 | 2957.1 | 2954.3 | 2948.6 |
| 7.5°  | 3070.0 | 3036.1 | 3002.3 | 2968.4 | 2962.8 | 2954.3 | 2923.3 | 2912.0 | 2931.7 | 2909.1 | 2943.0 |
| 10°   | 3103.8 | 3109.5 | 3058.7 | 3013.5 | 2971.2 | 2912.0 | 2869.6 | 2844.2 | 2813.2 | 2847.1 | 2866.8 |
| 12.5° | 3259.0 | 3202.6 | 3115.1 | 3044.6 | 2900.7 | 2841.4 | 2799.1 | 2787.8 | 2841.4 | 2852.7 | 2833.0 |
| 15°   | 3312.6 | 3304.2 | 3191.3 | 3033.3 | 2883.7 | 2813.2 | 2821.7 | 2799.1 | 2804.7 | 2776.5 | 2782.2 |
| 17.5° | 3422.7 | 3326.8 | 3194.1 | 2996.6 | 2880.9 | 2864.0 | 2813.2 | 2722.9 | 2672.1 | 2649.5 | 2669.3 |
| 20°   | 3544.0 | 3450.9 | 3259.0 | 3010.7 | 2906.3 | 2861.2 | 2694.7 | 2584.7 | 2480.2 | 2423.8 | 2426.6 |
| 22.5° | 3651.2 | 3535.6 | 3230.8 | 3016.4 | 2928.9 | 2742.7 | 2542.3 | 2325.1 | 2195.3 | 2107.8 | 2110.6 |
| 25°   | 3781.0 | 3617.4 | 3242.1 | 3027.7 | 2869.6 | 2553.6 | 2265.8 | 2054.2 | 1899.0 | 1839.7 | 1859.5 |
| 27.5° | 3854.4 | 3668.2 | 3304.2 | 3053.0 | 2714.4 | 2285.6 | 1975.2 | 1777.7 | 1687.4 | 1659.1 | 1656.3 |
| 30°   | 4074.5 | 3781.0 | 3380.4 | 3002.3 | 2454.9 | 1997.7 | 1709.9 | 1588.6 | 1501.1 | 1475.7 | 1481.4 |
| 32.5° | 4401.8 | 3987.0 | 3479.1 | 2869.6 | 2189.6 | 1741.0 | 1537.8 | 1447.5 | 1365.7 | 1317.7 | 1312.1 |
| 35°   | 4675.5 | 4339.7 | 3583.5 | 2663.7 | 1882.1 | 1543.5 | 1416.5 | 1303.6 | 1179.5 | 1125.8 | 1111.7 |
| 37.5° | 5197.5 | 4737.6 | 3560.9 | 2353.3 | 1588.6 | 1396.7 | 1286.7 | 1148.4 | 1041.2 | 967.8  | 959.4  |
| 40°   | 5891.7 | 5203.2 | 3450.9 | 1975.2 | 1371.3 | 1266.9 | 1148.4 | 1015.8 | 883.2  | 821.1  | 815.5  |
| 42.5° | 6735.3 | 5773.1 | 3250.6 | 1591.4 | 1154.1 | 1137.1 | 1029.9 | 877.5  | 759.0  | 713.9  | 716.7  |
| 45°   | 7421.0 | 6261.3 | 3047.4 | 1278.2 | 993.2  | 1010.2 | 917.0  | 773.1  | 691.3  | 654.6  | 654.6  |
| 47.5° | 8030.5 | 6591.4 | 2827.3 | 1055.3 | 843.7  | 883.2  | 801.4  | 716.7  | 646.2  | 617.9  | 612.3  |
| 50°   | 8617.4 | 6927.2 | 2607.2 | 855.0  | 719.5  | 759.0  | 750.6  | 682.8  | 626.4  | 592.6  | 595.4  |
| 52.5° | 8984.2 | 6980.8 | 2327.9 | 699.8  | 629.2  | 674.4  | 702.6  | 640.5  | 578.4  | 558.7  | 553.0  |
| 55°   | 8535.6 | 6289.5 | 1805.9 | 575.6  | 533.3  | 592.6  | 646.2  | 575.6  | 527.7  | 493.8  | 491.0  |
| 56°   | 7931.7 | 5623.6 | 1509.6 | 530.5  | 505.1  | 570.0  | 626.4  | 550.2  | 496.6  | 476.9  | 462.8  |
| 57.5° | 6715.6 | 4602.1 | 1114.6 | 471.2  | 468.4  | 530.5  | 595.4  | 524.8  | 462.8  | 445.8  | 445.8  |
| 60°   | 4187.4 | 2590.3 | 674.4  | 395.0  | 406.3  | 471.2  | 536.1  | 468.4  | 412.0  | 412.0  | 420.4  |
| 62.5° | 1907.5 | 1077.9 | 409.1  | 335.8  | 349.9  | 406.3  | 476.9  | 423.3  | 392.2  | 423.3  | 428.9  |
| 65°   | 649.0  | 465.6  | 296.3  | 268.1  | 276.5  | 335.8  | 409.1  | 428.9  | 426.1  | 445.8  | 457.1  |
| 67.5° | 364.0  | 299.1  | 248.3  | 222.9  | 217.3  | 248.3  | 335.8  | 428.9  | 412.0  | 403.5  | 409.1  |
| 70°   | 307.6  | 254.0  | 220.1  | 197.5  | 189.1  | 200.3  | 259.6  | 324.5  | 290.6  | 282.2  | 276.5  |
| 72.5° | 248.3  | 211.6  | 191.9  | 177.8  | 152.4  | 129.8  | 118.5  | 124.2  | 138.3  | 146.7  | 160.8  |
| 75°   | 174.9  | 160.8  | 160.8  | 143.9  | 110.0  | 81.8   | 64.9   | 53.6   | 36.7   | 25.4   | 28.2   |
| 77.5° | 98.8   | 98.8   | 101.6  | 87.5   | 70.5   | 53.6   | 39.5   | 28.2   | 14.1   | 5.6    | 2.8    |
| 80°   | 67.7   | 73.4   | 79.0   | 70.5   | 59.3   | 48.0   | 33.9   | 19.8   | 8.5    | 0.0    | 0.0    |
| 82.5° | 67.7   | 76.2   | 81.8   | 70.5   | 59.3   | 45.1   | 33.9   | 19.8   | 8.5    | 2.8    | 0.0    |
| 85°   | 14.1   | 16.9   | 19.8   | 22.6   | 33.9   | 33.9   | 25.4   | 16.9   | 8.5    | 2.8    | 0.0    |
| 87.5° | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 2.8    | 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)