

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P643943

Luminaire Tested: GWS-SA6F-830-U-T3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643943
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGF-830-U-T3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29025.8 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

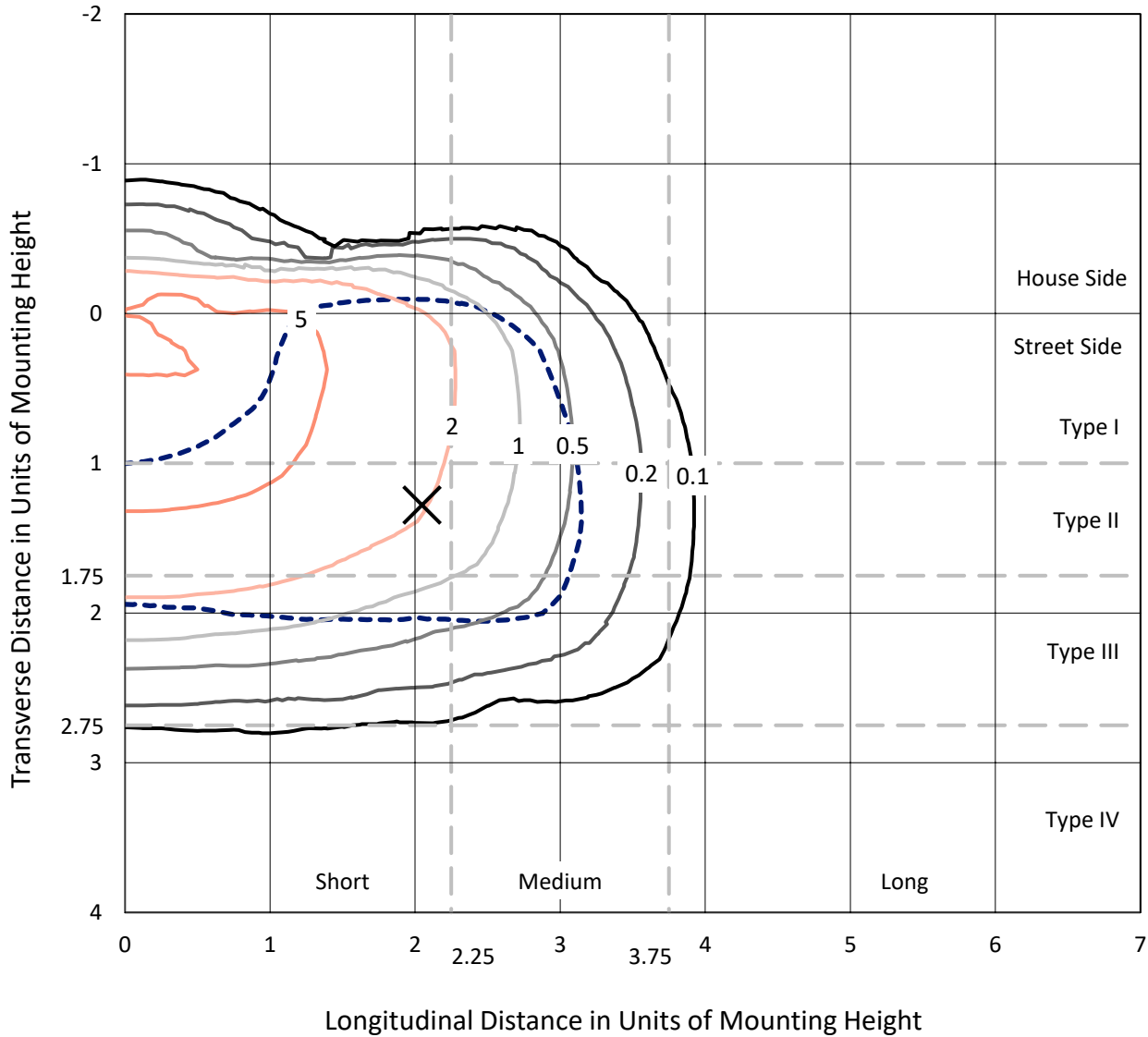
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

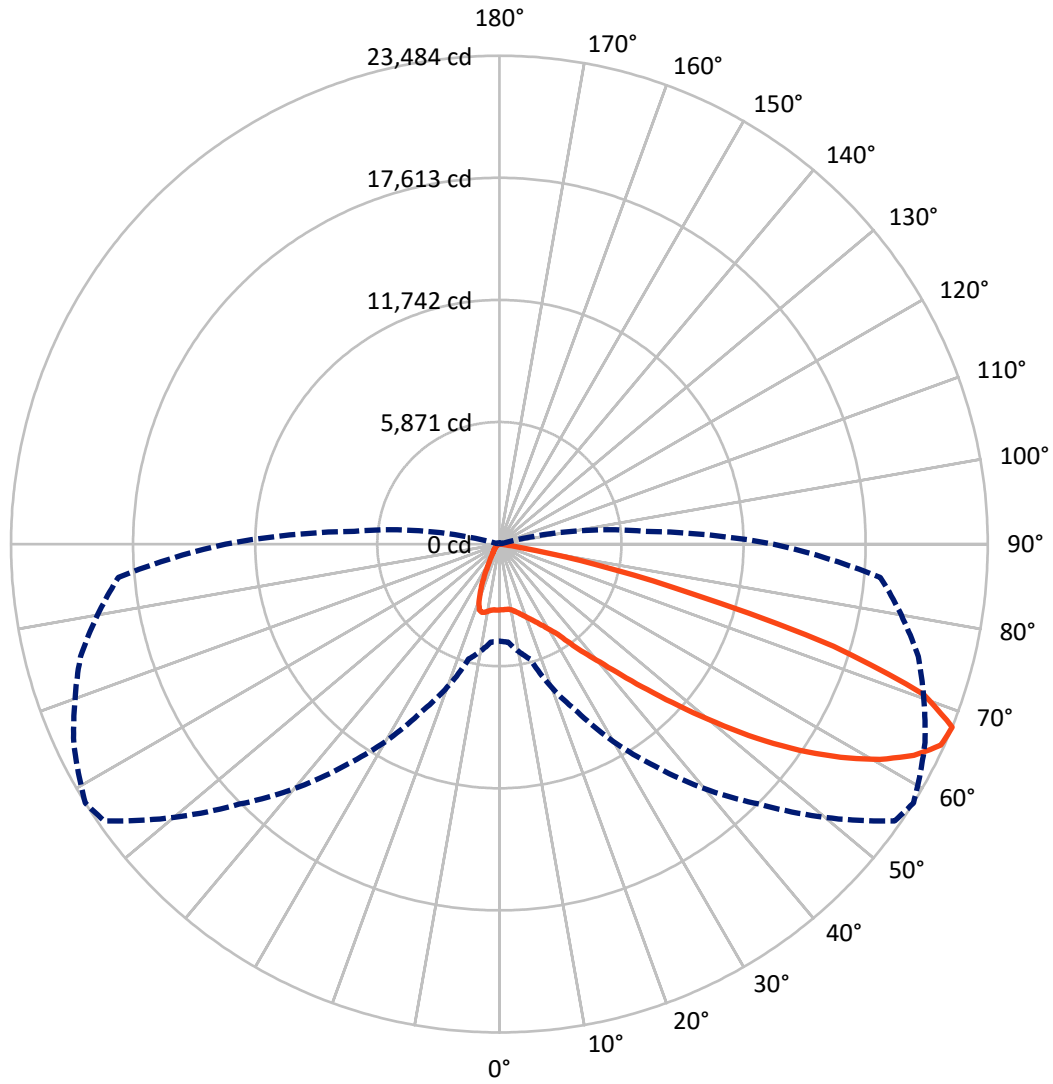
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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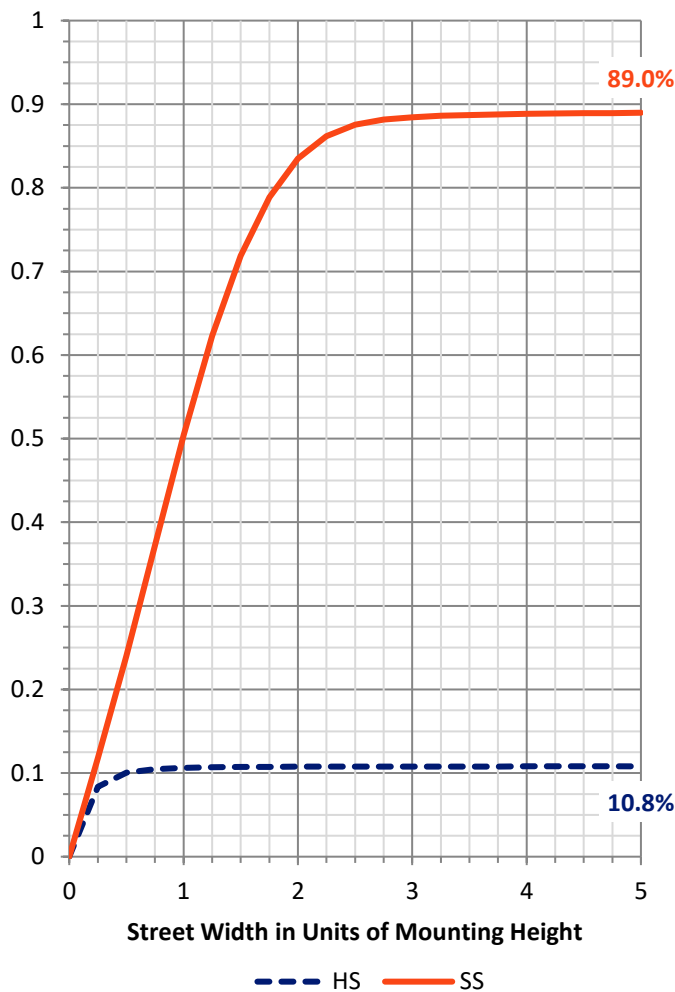
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3166.6 | 0.0 | 3166.6 |
| | % Fixture | 10.9 | 0.0 | 10.9 |
| Street Side | Lumens | 25859.2 | 0.0 | 25859.2 |
| | % Fixture | 89.1 | 0.0 | 89.1 |
| Total | Lumens | 29025.8 | 0.0 | 29025.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 297.1 | 1.0 |
| 10°-20° | 834.2 | 2.9 |
| 20°-30° | 1456.2 | 5.0 |
| 30°-40° | 2600.5 | 9.0 |
| 40°-50° | 4753.3 | 16.4 |
| 50°-60° | 7905.2 | 27.2 |
| 60°-70° | 8586.4 | 29.6 |
| 70°-80° | 2521.0 | 8.7 |
| 80°-90° | 71.8 | 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° | 29025.8 | 100.0 |
| 0°-180° | 29025.8 | 100.0 |

Coefficient of Utilization



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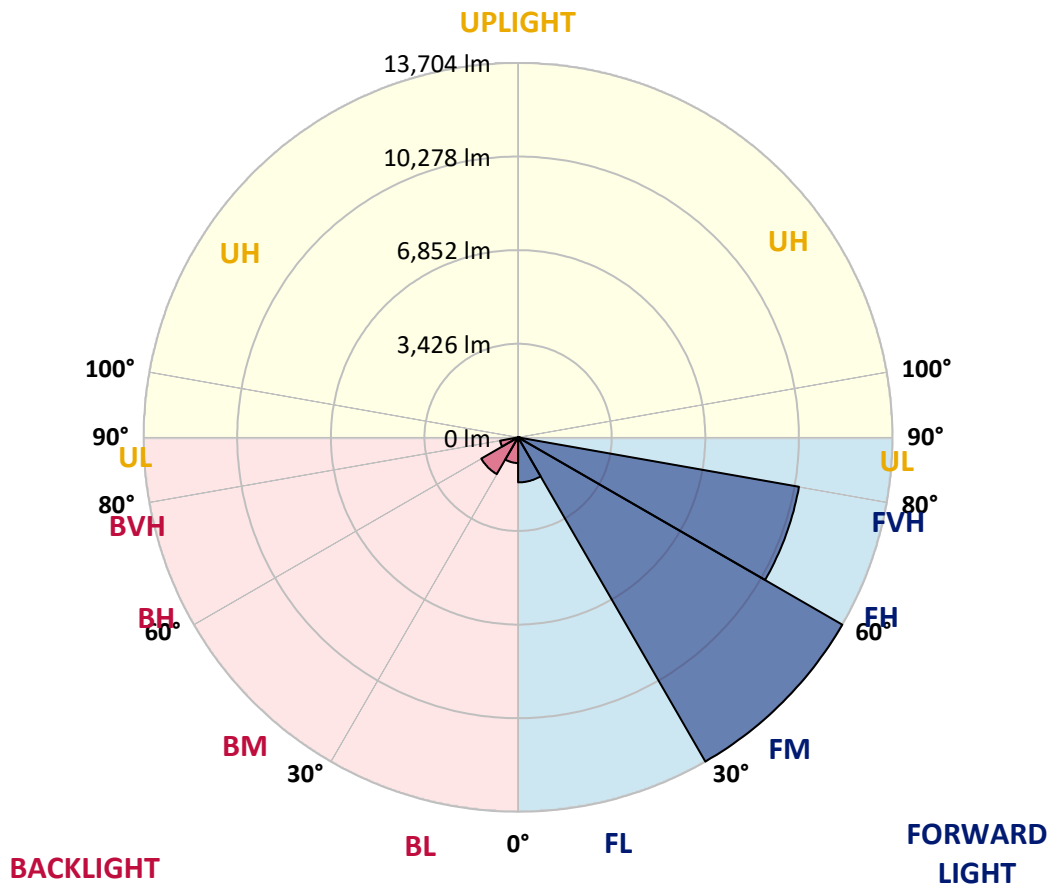
CATALOG NUMBER: GWS-SA6F-830-U-T3-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1648.2 | 5.7 | | | |
| FM (30°-60°) | 13703.7 | 47.2 | | | |
| FH (60°-80°) | 10439.0 | 36.0 | | | G4/12000 |
| FVH (80°-90°) | 68.3 | 0.2 | | | G1/100 |
| BL (0°-30°) | 939.3 | 3.2 | B2/1000 | | |
| BM (30°-60°) | 1555.3 | 5.4 | B2/2500 | | |
| BH (60°-80°) | 668.5 | 2.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 3.5 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3162.9 | 3162.9 | 3162.9 | 3162.9 | 3162.9 | 3162.9 | 3162.9 | 3162.9 | 3162.9 | 3162.9 | 3162.9 |
| 2.5° | 3103.4 | 3097.8 | 3097.8 | 3120.4 | 3123.3 | 3134.6 | 3160.1 | 3162.9 | 3177.1 | 3171.4 | 3151.6 |
| 5° | 2941.9 | 2944.7 | 2961.7 | 3001.4 | 3035.4 | 3077.9 | 3140.3 | 3154.4 | 3185.6 | 3202.6 | 3191.3 |
| 7.5° | 2791.7 | 2794.5 | 2820.0 | 2882.4 | 2947.5 | 3032.6 | 3134.6 | 3162.9 | 3225.3 | 3270.6 | 3273.5 |
| 10° | 2735.0 | 2732.1 | 2757.7 | 2828.5 | 2913.5 | 3032.6 | 3180.0 | 3216.8 | 3310.3 | 3389.7 | 3403.9 |
| 12.5° | 2752.0 | 2749.2 | 2774.7 | 2839.8 | 2933.4 | 3083.6 | 3259.3 | 3310.3 | 3429.4 | 3551.2 | 3576.7 |
| 15° | 2820.0 | 2817.2 | 2834.2 | 2888.0 | 2990.1 | 3145.9 | 3361.3 | 3437.9 | 3588.1 | 3735.4 | 3775.1 |
| 17.5° | 3024.1 | 3009.9 | 2992.9 | 2998.6 | 3058.1 | 3219.6 | 3491.7 | 3585.2 | 3772.3 | 3948.0 | 3982.0 |
| 20° | 3386.8 | 3350.0 | 3304.7 | 3245.1 | 3216.8 | 3327.3 | 3641.9 | 3749.6 | 3976.4 | 4177.6 | 4183.2 |
| 22.5° | 3933.8 | 3919.7 | 3814.8 | 3641.9 | 3520.1 | 3522.9 | 3817.6 | 3942.3 | 4220.1 | 4441.2 | 4410.0 |
| 25° | 4696.2 | 4687.7 | 4526.2 | 4242.8 | 3925.3 | 3817.6 | 4041.5 | 4169.1 | 4509.2 | 4744.4 | 4645.2 |
| 27.5° | 5642.9 | 5583.3 | 5393.4 | 5010.8 | 4537.5 | 4200.3 | 4325.0 | 4438.3 | 4815.3 | 5036.3 | 4849.3 |
| 30° | 6467.6 | 6470.4 | 6291.9 | 5892.3 | 5359.4 | 4775.6 | 4670.7 | 4769.9 | 5095.9 | 5328.3 | 5101.5 |
| 32.5° | 7261.2 | 7286.7 | 7091.1 | 6731.2 | 6147.3 | 5526.7 | 5166.7 | 5183.7 | 5455.8 | 5708.0 | 5433.1 |
| 35° | 7998.1 | 8017.9 | 7881.9 | 7575.8 | 7031.6 | 6311.7 | 5858.3 | 5849.7 | 5997.1 | 6255.0 | 5895.1 |
| 37.5° | 8822.8 | 8842.6 | 8709.4 | 8434.5 | 7924.4 | 7210.2 | 6643.3 | 6632.0 | 6691.5 | 6901.2 | 6490.3 |
| 40° | 9701.4 | 9738.2 | 9590.9 | 9358.5 | 8871.0 | 8267.3 | 7555.9 | 7453.9 | 7394.4 | 7640.9 | 7261.2 |
| 42.5° | 10591.3 | 10648.0 | 10597.0 | 10364.6 | 9948.0 | 9449.2 | 8740.6 | 8581.9 | 8454.4 | 8763.3 | 8360.8 |
| 45° | 11696.7 | 11764.7 | 11742.0 | 11563.5 | 11240.4 | 10835.1 | 10166.2 | 9982.0 | 9922.5 | 10208.7 | 9729.7 |
| 47.5° | 12759.5 | 12833.2 | 12915.4 | 12875.7 | 12646.1 | 12459.1 | 11716.5 | 11611.6 | 11594.6 | 11900.7 | 11158.2 |
| 50° | 13550.2 | 13618.2 | 13932.8 | 14159.6 | 14315.4 | 14275.8 | 13632.4 | 13476.5 | 13451.0 | 13646.6 | 12666.0 |
| 52.5° | 14117.1 | 14182.2 | 14615.9 | 15324.4 | 15896.9 | 16208.7 | 15559.6 | 15525.6 | 15386.8 | 15318.7 | 14077.4 |
| 55° | 14556.3 | 14647.0 | 15103.3 | 16174.7 | 17328.2 | 18019.7 | 17614.4 | 17492.6 | 17135.5 | 16744.3 | 15386.8 |
| 57.5° | 14644.2 | 14681.1 | 15324.4 | 16769.8 | 18439.2 | 19558.7 | 19558.7 | 19346.1 | 18657.4 | 18116.1 | 16900.2 |
| 60° | 13856.3 | 13969.7 | 14839.8 | 16721.7 | 18915.3 | 20564.8 | 21171.3 | 21023.9 | 20094.3 | 19428.3 | 18357.0 |
| 62.5° | 12107.6 | 12235.2 | 13295.1 | 15568.2 | 18439.2 | 20771.7 | 22392.9 | 22370.2 | 21321.5 | 20513.8 | 19564.3 |
| 65° | 9284.8 | 9378.3 | 10302.2 | 13023.1 | 16426.9 | 19975.3 | 23265.8 | 23328.1 | 22290.8 | 21230.8 | 19981.0 |
| 67.5° | 4665.1 | 4730.2 | 5727.9 | 8896.5 | 13020.2 | 17682.4 | 23206.3 | 23484.0 | 22585.6 | 20851.1 | 18391.0 |
| 70° | 1629.7 | 1694.8 | 2165.3 | 3817.6 | 7924.4 | 13502.0 | 21199.7 | 21653.1 | 20853.9 | 17798.7 | 13567.2 |
| 72.5° | 558.3 | 589.5 | 898.4 | 1417.1 | 3083.6 | 8003.7 | 16120.8 | 16803.9 | 15372.6 | 11948.9 | 7796.8 |
| 75° | 317.4 | 337.3 | 481.8 | 768.1 | 1292.4 | 2633.0 | 9145.9 | 9565.4 | 8961.7 | 6512.9 | 3208.3 |
| 77.5° | 215.4 | 232.4 | 300.4 | 436.5 | 714.2 | 847.4 | 3729.8 | 4696.2 | 4095.4 | 2125.6 | 819.1 |
| 80° | 127.5 | 138.9 | 184.2 | 257.9 | 365.6 | 328.8 | 799.2 | 1062.8 | 1368.9 | 634.9 | 246.6 |
| 82.5° | 59.5 | 68.0 | 119.0 | 170.1 | 184.2 | 138.9 | 235.2 | 286.3 | 385.4 | 311.8 | 102.0 |
| 85° | 0.0 | 0.0 | 39.7 | 70.9 | 68.0 | 39.7 | 65.2 | 70.9 | 104.9 | 155.9 | 39.7 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.8 | 5.7 | 8.5 | 17.0 | 31.2 | 17.0 |
| 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° | 3162.9 | 3162.9 | 3162.9 | 3162.9 | 3162.9 | 3162.9 | 3162.9 | 3162.9 | 3162.9 | 3162.9 | 3162.9 |
| 2.5° | 3174.3 | 3154.4 | 3177.1 | 3165.8 | 3177.1 | 3174.3 | 3151.6 | 3137.4 | 3137.4 | 3111.9 | 3103.4 |
| 5° | 3214.0 | 3194.1 | 3199.8 | 3174.3 | 3168.6 | 3154.4 | 3126.1 | 3114.8 | 3114.8 | 3089.3 | 3080.8 |
| 7.5° | 3301.8 | 3270.6 | 3265.0 | 3214.0 | 3191.3 | 3151.6 | 3100.6 | 3080.8 | 3077.9 | 3052.4 | 3043.9 |
| 10° | 3440.7 | 3403.9 | 3378.3 | 3313.2 | 3248.0 | 3168.6 | 3060.9 | 2970.2 | 2919.2 | 2851.2 | 2845.5 |
| 12.5° | 3610.7 | 3565.4 | 3525.7 | 3426.5 | 3318.8 | 3140.3 | 2822.8 | 2491.2 | 2287.2 | 2125.6 | 2137.0 |
| 15° | 3800.6 | 3758.1 | 3695.8 | 3545.6 | 3324.5 | 2859.7 | 2196.5 | 1686.3 | 1436.9 | 1303.7 | 1298.1 |
| 17.5° | 4007.5 | 3945.2 | 3843.1 | 3639.1 | 3145.9 | 2185.2 | 1428.4 | 1009.0 | 878.6 | 833.2 | 821.9 |
| 20° | 4200.3 | 4123.7 | 3996.2 | 3658.9 | 2630.1 | 1479.4 | 892.8 | 782.2 | 759.6 | 745.4 | 745.4 |
| 22.5° | 4404.3 | 4308.0 | 4118.1 | 3505.9 | 1955.6 | 946.6 | 759.6 | 734.1 | 717.0 | 697.2 | 694.4 |
| 25° | 4611.2 | 4486.5 | 4228.6 | 3106.3 | 1281.0 | 745.4 | 711.4 | 683.0 | 651.9 | 620.7 | 612.2 |
| 27.5° | 4786.9 | 4625.4 | 4313.6 | 2511.1 | 821.9 | 671.7 | 649.0 | 600.8 | 558.3 | 524.3 | 518.7 |
| 30° | 4996.7 | 4789.8 | 4350.5 | 1836.5 | 646.2 | 592.3 | 558.3 | 507.3 | 456.3 | 422.3 | 411.0 |
| 32.5° | 5277.2 | 5050.5 | 4293.8 | 1196.0 | 572.5 | 521.5 | 467.6 | 408.1 | 357.1 | 320.3 | 314.6 |
| 35° | 5713.7 | 5444.5 | 4033.0 | 762.4 | 518.7 | 450.6 | 385.4 | 323.1 | 280.6 | 252.2 | 246.6 |
| 37.5° | 6246.5 | 5997.1 | 3605.1 | 572.5 | 464.8 | 391.1 | 314.6 | 255.1 | 223.9 | 204.1 | 198.4 |
| 40° | 7037.3 | 6688.7 | 3075.1 | 501.6 | 411.0 | 331.6 | 257.9 | 209.7 | 187.1 | 170.1 | 164.4 |
| 42.5° | 8063.2 | 7504.9 | 2465.7 | 456.3 | 359.9 | 277.7 | 209.7 | 172.9 | 153.0 | 141.7 | 138.9 |
| 45° | 9262.1 | 8301.3 | 1822.4 | 411.0 | 311.8 | 229.6 | 172.9 | 141.7 | 127.5 | 119.0 | 116.2 |
| 47.5° | 10489.3 | 8998.5 | 1258.4 | 362.8 | 266.4 | 189.9 | 144.5 | 121.9 | 110.5 | 99.2 | 96.4 |
| 50° | 11798.7 | 9588.0 | 858.8 | 314.6 | 226.7 | 155.9 | 124.7 | 110.5 | 96.4 | 87.9 | 85.0 |
| 52.5° | 12759.5 | 9806.3 | 598.0 | 272.1 | 192.7 | 133.2 | 110.5 | 99.2 | 87.9 | 76.5 | 73.7 |
| 55° | 13646.6 | 9800.6 | 453.5 | 229.6 | 164.4 | 116.2 | 99.2 | 87.9 | 76.5 | 68.0 | 65.2 |
| 57.5° | 14530.8 | 9724.1 | 357.1 | 195.6 | 141.7 | 104.9 | 87.9 | 76.5 | 70.9 | 59.5 | 56.7 |
| 60° | 15103.3 | 9435.0 | 277.7 | 164.4 | 121.9 | 90.7 | 76.5 | 68.0 | 59.5 | 51.0 | 48.2 |
| 62.5° | 15406.6 | 9032.5 | 212.6 | 130.4 | 99.2 | 79.4 | 68.0 | 59.5 | 51.0 | 42.5 | 39.7 |
| 65° | 14995.6 | 8318.3 | 167.2 | 102.0 | 76.5 | 68.0 | 56.7 | 48.2 | 39.7 | 31.2 | 28.3 |
| 67.5° | 13173.3 | 7014.6 | 130.4 | 82.2 | 59.5 | 51.0 | 48.2 | 39.7 | 28.3 | 22.7 | 19.8 |
| 70° | 9310.3 | 4803.9 | 102.0 | 62.4 | 45.3 | 39.7 | 36.8 | 31.2 | 22.7 | 17.0 | 14.2 |
| 72.5° | 5110.0 | 2423.2 | 73.7 | 45.3 | 34.0 | 31.2 | 28.3 | 25.5 | 19.8 | 14.2 | 14.2 |
| 75° | 1966.9 | 666.0 | 53.8 | 31.2 | 22.7 | 22.7 | 19.8 | 19.8 | 17.0 | 11.3 | 11.3 |
| 77.5° | 513.0 | 198.4 | 34.0 | 19.8 | 14.2 | 14.2 | 14.2 | 11.3 | 11.3 | 8.5 | 8.5 |
| 80° | 164.4 | 65.2 | 19.8 | 14.2 | 11.3 | 8.5 | 8.5 | 5.7 | 8.5 | 5.7 | 5.7 |
| 82.5° | 53.8 | 22.7 | 11.3 | 11.3 | 8.5 | 5.7 | 5.7 | 2.8 | 2.8 | 0.0 | 0.0 |
| 85° | 19.8 | 11.3 | 8.5 | 5.7 | 5.7 | 5.7 | 2.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 11.3 | 5.7 | 5.7 | 5.7 | 5.7 | 2.8 | 0.0 | 0.0 | 0.0 | 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)