

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: P640996

Luminaire Tested: GWS-SA5F-722-U-RW-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640996
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-50)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-722-U-RW-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19926.1 lumens
Efficiency: N/A
Efficacy: 64.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

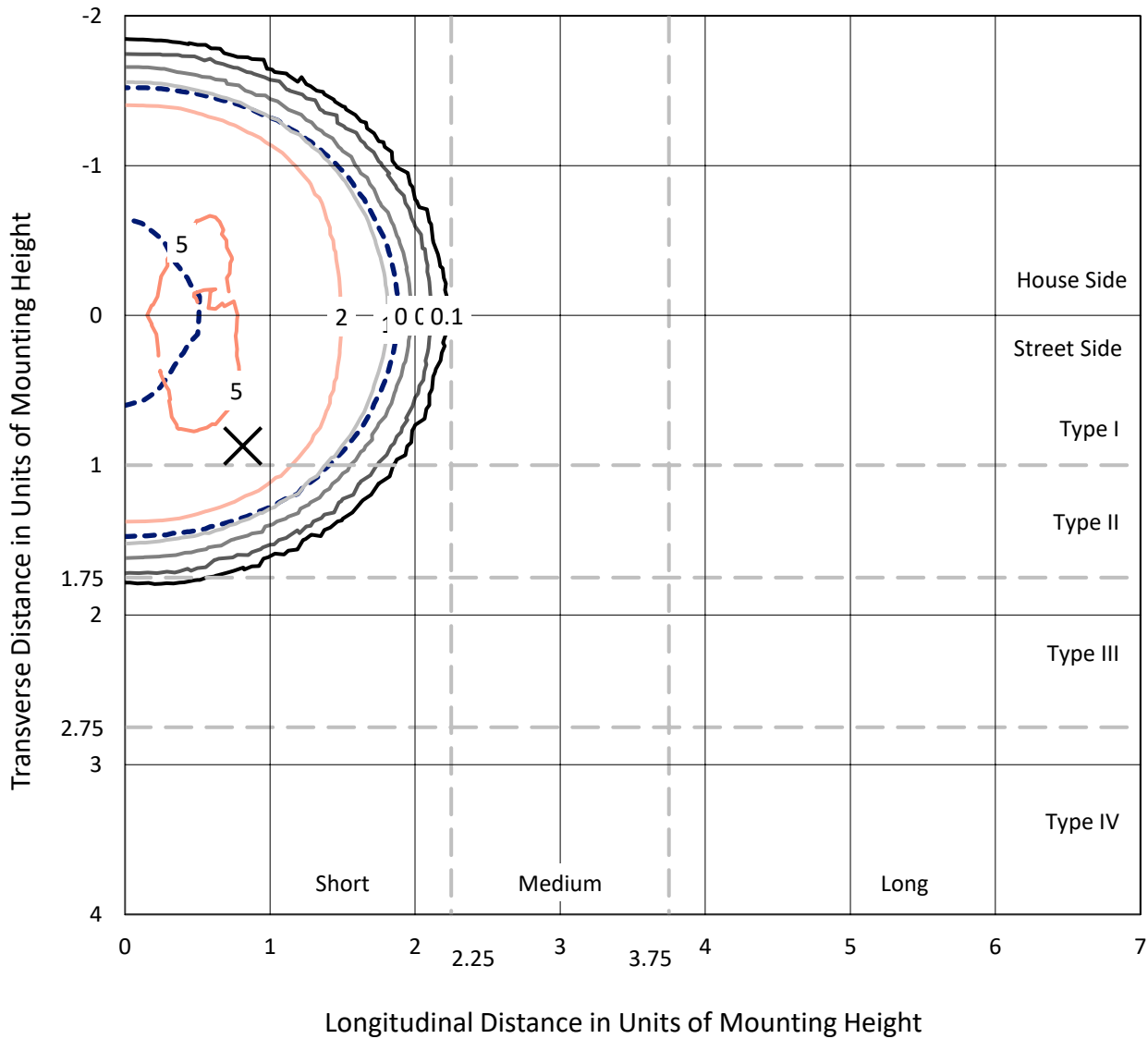
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

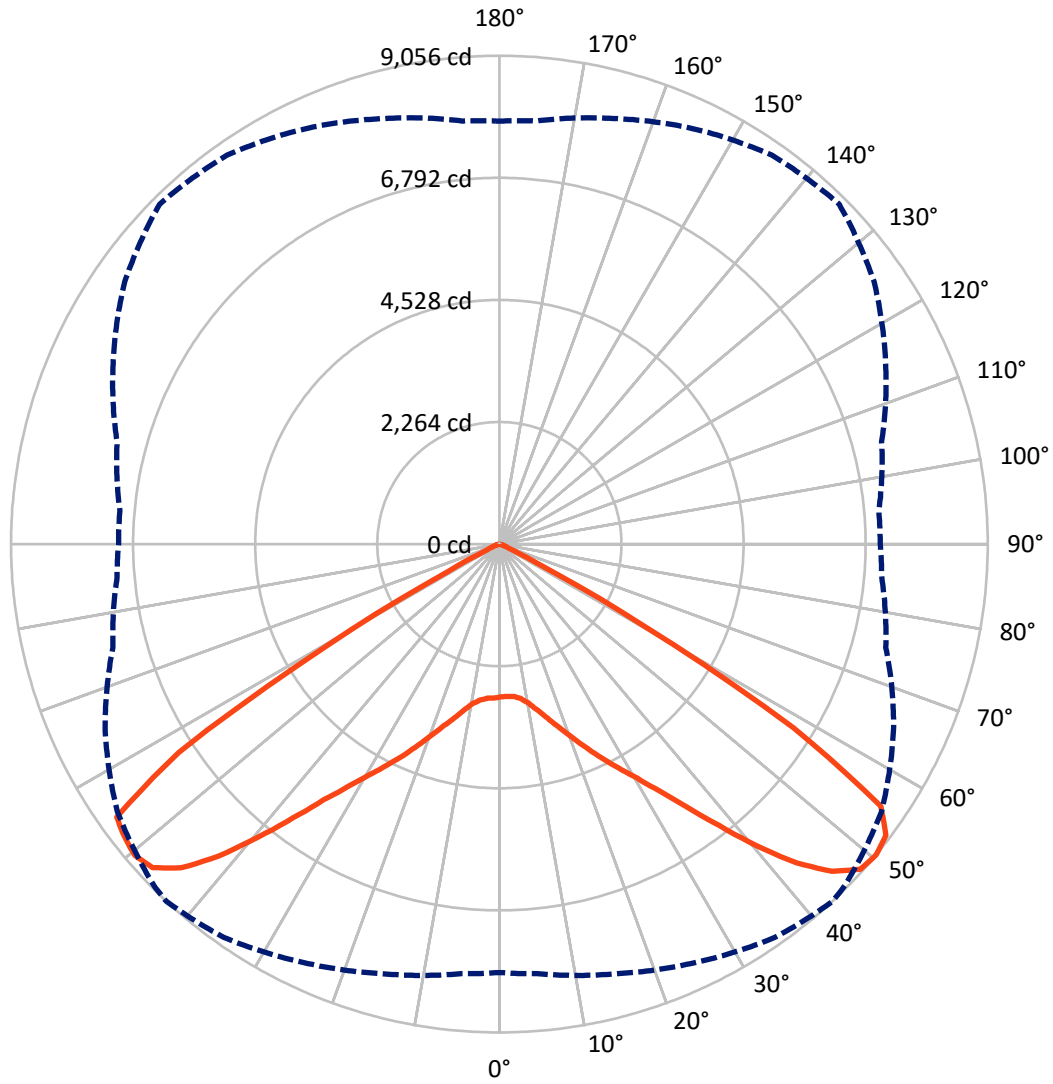
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 43-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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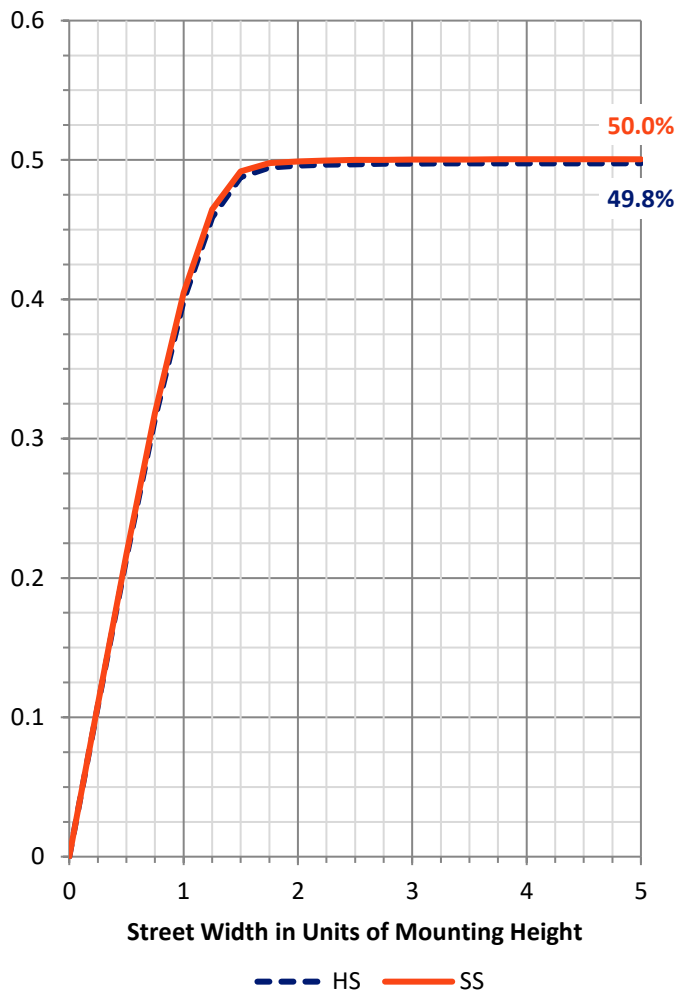
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9962.8 | 0.0 | 9962.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 9963.3 | 0.0 | 9963.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 19926.1 | 0.0 | 19926.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 279.1 | 1.4 |
| 10°-20° | 960.5 | 4.8 |
| 20°-30° | 1943.2 | 9.8 |
| 30°-40° | 3605.3 | 18.1 |
| 40°-50° | 5984.6 | 30.0 |
| 50°-60° | 6107.5 | 30.7 |
| 60°-70° | 1001.6 | 5.0 |
| 70°-80° | 43.8 | 0.2 |
| 80°-90° | 0.6 | 0.0 |
| 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° | 19926.1 | 100.0 |
| 0°-180° | 19926.1 | 100.0 |

Coefficient of Utilization

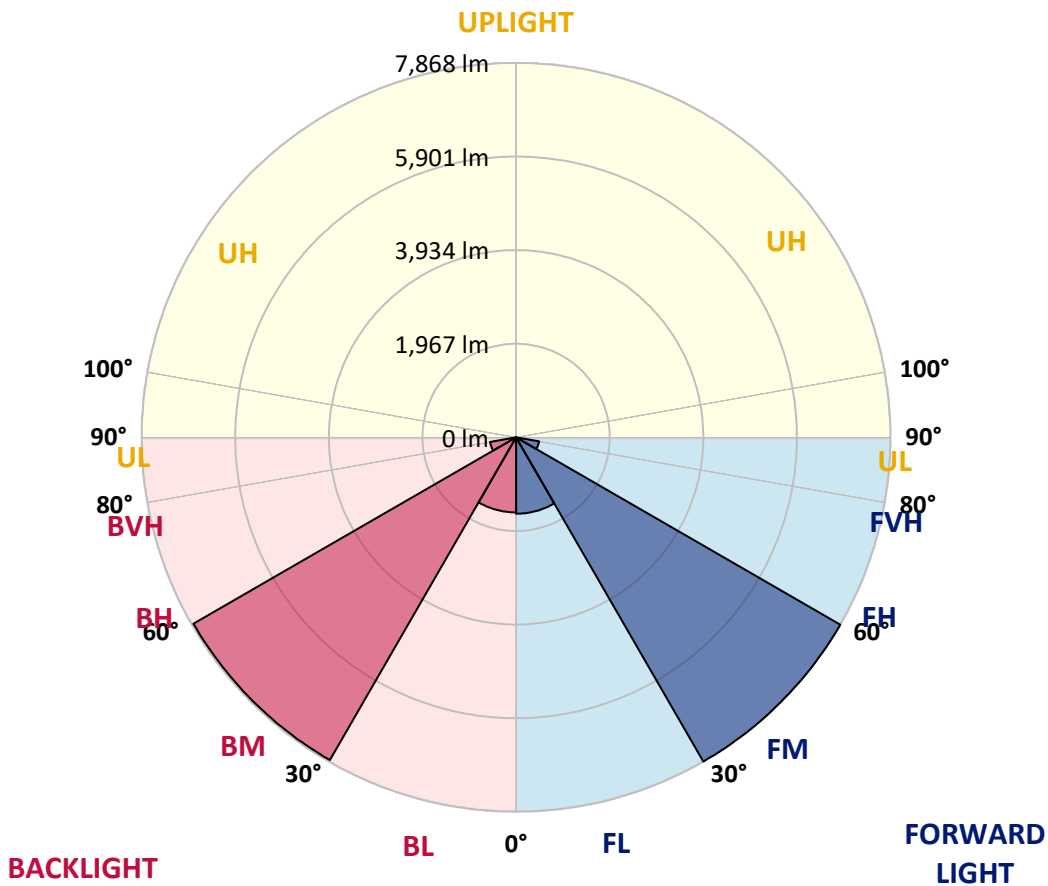


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1605.3 | 8.1 | | | |
| FM (30°-60°) | 7867.8 | 39.5 | | | |
| FH (60°-80°) | 490.0 | 2.5 | | | G0/660 |
| FVH (80°-90°) | 0.2 | 0.0 | | | G0/10 |
| BL (0°-30°) | 1577.4 | 7.9 | B3/2500 | | |
| BM (30°-60°) | 7829.5 | 39.3 | B4/8500 | | |
| BH (60°-80°) | 555.4 | 2.8 | B2/1000 | | G0/660 |
| BVH (80°-90°) | 0.4 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G0
 Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 43° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2834.2 | 2834.2 | 2834.2 | 2834.2 | 2834.2 | 2834.2 | 2834.2 | 2834.2 | 2834.2 | 2834.2 | 2834.2 |
| 2.5° | 2781.3 | 2787.9 | 2796.7 | 2805.5 | 2816.5 | 2827.6 | 2834.2 | 2854.0 | 2849.6 | 2867.2 | 2867.2 |
| 5° | 2750.4 | 2757.0 | 2768.1 | 2787.9 | 2812.1 | 2836.4 | 2854.0 | 2893.7 | 2915.7 | 2951.0 | 2964.2 |
| 7.5° | 2765.9 | 2774.7 | 2787.9 | 2818.7 | 2856.2 | 2893.7 | 2913.5 | 2977.4 | 3021.5 | 3087.6 | 3125.1 |
| 10° | 2816.5 | 2825.4 | 2847.4 | 2900.3 | 2948.8 | 3001.7 | 3025.9 | 3107.5 | 3178.0 | 3268.3 | 3321.2 |
| 12.5° | 2873.8 | 2884.9 | 2928.9 | 3008.3 | 3092.0 | 3162.5 | 3195.6 | 3286.0 | 3358.7 | 3460.1 | 3543.8 |
| 15° | 2933.3 | 2951.0 | 3019.3 | 3136.1 | 3255.1 | 3349.9 | 3385.1 | 3482.1 | 3554.8 | 3662.8 | 3757.6 |
| 17.5° | 3072.2 | 3092.0 | 3169.2 | 3294.8 | 3457.9 | 3568.1 | 3598.9 | 3700.3 | 3755.4 | 3828.1 | 3927.3 |
| 20° | 3246.3 | 3283.8 | 3378.5 | 3530.6 | 3709.1 | 3814.9 | 3836.9 | 3936.1 | 3931.7 | 3962.6 | 4048.5 |
| 22.5° | 3462.3 | 3488.7 | 3592.3 | 3773.0 | 3973.6 | 4090.4 | 4141.1 | 4182.9 | 4127.8 | 4101.4 | 4156.5 |
| 25° | 3687.1 | 3717.9 | 3830.3 | 4028.7 | 4253.5 | 4387.9 | 4429.8 | 4462.8 | 4374.7 | 4275.5 | 4282.1 |
| 27.5° | 3978.0 | 4000.0 | 4110.2 | 4321.8 | 4546.6 | 4698.6 | 4736.1 | 4793.4 | 4676.6 | 4517.9 | 4473.8 |
| 30° | 4324.0 | 4346.0 | 4462.8 | 4685.4 | 4908.0 | 5038.0 | 5095.3 | 5165.9 | 5038.0 | 4839.7 | 4789.0 |
| 32.5° | 4729.5 | 4751.5 | 4901.4 | 5130.6 | 5313.5 | 5454.6 | 5509.7 | 5584.6 | 5483.2 | 5260.6 | 5203.3 |
| 35° | 5214.3 | 5227.6 | 5403.9 | 5652.9 | 5846.9 | 5983.5 | 6021.0 | 6109.1 | 5996.7 | 5774.1 | 5743.3 |
| 37.5° | 5776.3 | 5791.8 | 5983.5 | 6272.2 | 6470.6 | 6622.6 | 6682.1 | 6706.4 | 6569.7 | 6320.7 | 6296.4 |
| 40° | 6393.4 | 6444.1 | 6631.4 | 6942.2 | 7164.8 | 7356.5 | 7409.4 | 7327.9 | 7136.1 | 6796.7 | 6752.6 |
| 42.5° | 7036.9 | 7081.0 | 7290.4 | 7627.6 | 7885.4 | 8081.6 | 8083.8 | 7907.5 | 7581.3 | 7111.9 | 7045.8 |
| 45° | 7572.5 | 7590.1 | 7861.2 | 8200.6 | 8517.9 | 8656.8 | 8670.0 | 8350.5 | 7859.0 | 7294.8 | 7153.8 |
| 47.5° | 7940.5 | 7969.2 | 8205.0 | 8531.2 | 8881.6 | 9007.2 | 8980.8 | 8581.9 | 7991.2 | 7413.8 | 7180.2 |
| 50° | 7944.9 | 7993.4 | 8249.1 | 8564.2 | 8903.6 | 9055.7 | 9018.2 | 8648.0 | 8066.2 | 7418.2 | 7116.3 |
| 52.5° | 7241.9 | 7321.2 | 7737.8 | 8194.0 | 8714.1 | 8974.1 | 8983.0 | 8733.9 | 8037.5 | 7347.7 | 7059.0 |
| 55° | 5463.4 | 5549.3 | 6073.9 | 6851.8 | 7856.8 | 8581.9 | 8707.5 | 8632.5 | 8004.4 | 7378.5 | 7160.4 |
| 57.5° | 2891.5 | 2825.4 | 3116.3 | 3887.6 | 5150.4 | 6433.1 | 6801.1 | 7400.6 | 7636.4 | 7416.0 | 7347.7 |
| 60° | 630.3 | 672.2 | 894.8 | 1205.5 | 2009.9 | 3025.9 | 3385.1 | 4412.1 | 5633.1 | 6175.2 | 6567.5 |
| 62.5° | 271.1 | 266.7 | 277.7 | 315.2 | 460.6 | 766.9 | 936.6 | 1529.5 | 2413.2 | 3314.6 | 3925.1 |
| 65° | 222.6 | 224.8 | 233.6 | 233.6 | 218.2 | 220.4 | 231.4 | 350.4 | 564.2 | 791.2 | 1062.3 |
| 67.5° | 167.5 | 169.7 | 185.1 | 189.5 | 178.5 | 158.7 | 156.5 | 132.2 | 138.8 | 174.1 | 180.7 |
| 70° | 105.8 | 105.8 | 114.6 | 119.0 | 119.0 | 110.2 | 108.0 | 94.8 | 92.6 | 105.8 | 119.0 |
| 72.5° | 57.3 | 57.3 | 61.7 | 63.9 | 61.7 | 59.5 | 59.5 | 57.3 | 55.1 | 63.9 | 81.5 |
| 75° | 24.2 | 24.2 | 26.4 | 26.4 | 24.2 | 24.2 | 24.2 | 24.2 | 24.2 | 28.7 | 44.1 |
| 77.5° | 4.4 | 6.6 | 8.8 | 6.6 | 4.4 | 4.4 | 4.4 | 6.6 | 6.6 | 8.8 | 13.2 |
| 80° | 2.2 | 2.2 | 4.4 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 2.2 | 2.2 | 2.2 |
| 82.5° | 2.2 | 2.2 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.2 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2834.2 | 2834.2 | 2834.2 | 2834.2 | 2834.2 | 2834.2 | 2834.2 | 2834.2 | 2834.2 | 2834.2 | 2834.2 |
| 2.5° | 2882.7 | 2858.4 | 2867.2 | 2871.6 | 2865.0 | 2860.6 | 2836.4 | 2829.8 | 2818.7 | 2801.1 | 2796.7 |
| 5° | 2979.6 | 2959.8 | 2957.6 | 2944.4 | 2913.5 | 2876.0 | 2829.8 | 2809.9 | 2787.9 | 2765.9 | 2761.4 |
| 7.5° | 3142.7 | 3118.5 | 3103.0 | 3059.0 | 2988.4 | 2928.9 | 2851.8 | 2809.9 | 2781.3 | 2752.6 | 2746.0 |
| 10° | 3352.1 | 3323.4 | 3279.4 | 3197.8 | 3103.0 | 3017.1 | 2926.7 | 2871.6 | 2827.6 | 2787.9 | 2785.7 |
| 12.5° | 3574.7 | 3543.8 | 3464.5 | 3360.9 | 3246.3 | 3167.0 | 3052.4 | 2975.2 | 2909.1 | 2849.6 | 2843.0 |
| 15° | 3808.3 | 3770.8 | 3662.8 | 3539.4 | 3433.6 | 3352.1 | 3226.5 | 3103.0 | 3001.7 | 2915.7 | 2906.9 |
| 17.5° | 3986.8 | 3940.5 | 3812.7 | 3720.1 | 3634.2 | 3550.4 | 3409.4 | 3246.3 | 3111.9 | 3008.3 | 2984.0 |
| 20° | 4099.2 | 4055.1 | 3933.9 | 3883.2 | 3843.5 | 3784.0 | 3616.5 | 3446.8 | 3297.0 | 3169.2 | 3147.1 |
| 22.5° | 4207.2 | 4154.3 | 4048.5 | 4048.5 | 4079.4 | 4055.1 | 3874.4 | 3680.5 | 3504.1 | 3356.5 | 3323.4 |
| 25° | 4328.4 | 4286.5 | 4211.6 | 4273.3 | 4350.4 | 4348.2 | 4163.1 | 3920.7 | 3717.9 | 3552.6 | 3519.6 |
| 27.5° | 4504.7 | 4462.8 | 4436.4 | 4553.2 | 4650.2 | 4643.5 | 4440.8 | 4178.5 | 3964.8 | 3801.7 | 3770.8 |
| 30° | 4815.4 | 4775.8 | 4747.1 | 4888.2 | 5011.6 | 4965.3 | 4742.7 | 4489.3 | 4273.3 | 4088.2 | 4066.1 |
| 32.5° | 5229.8 | 5187.9 | 5150.4 | 5291.5 | 5401.7 | 5342.2 | 5130.6 | 4892.6 | 4643.5 | 4462.8 | 4418.8 |
| 35° | 5774.1 | 5686.0 | 5648.5 | 5816.0 | 5862.3 | 5796.2 | 5593.4 | 5384.0 | 5119.6 | 4912.4 | 4883.8 |
| 37.5° | 6336.1 | 6232.5 | 6206.1 | 6351.5 | 6426.5 | 6402.2 | 6164.2 | 5946.0 | 5659.5 | 5430.3 | 5397.3 |
| 40° | 6816.6 | 6721.8 | 6675.5 | 6902.5 | 7072.2 | 7087.6 | 6873.9 | 6607.2 | 6270.0 | 6032.0 | 5972.5 |
| 42.5° | 7098.7 | 7017.1 | 7006.1 | 7358.7 | 7636.4 | 7834.7 | 7579.1 | 7303.6 | 6948.8 | 6679.9 | 6631.4 |
| 45° | 7162.6 | 7109.7 | 7202.2 | 7665.0 | 8097.0 | 8458.4 | 8240.3 | 7949.3 | 7565.9 | 7281.6 | 7235.3 |
| 47.5° | 7156.0 | 7138.3 | 7303.6 | 7823.7 | 8370.3 | 8815.5 | 8707.5 | 8379.1 | 8008.9 | 7711.3 | 7667.3 |
| 50° | 7061.2 | 7063.4 | 7338.9 | 7903.1 | 8480.5 | 8912.4 | 8804.4 | 8500.3 | 8169.7 | 7876.6 | 7841.4 |
| 52.5° | 7023.7 | 7010.5 | 7272.8 | 7878.8 | 8592.9 | 8868.4 | 8625.9 | 8284.3 | 7916.3 | 7554.9 | 7502.0 |
| 55° | 7156.0 | 7122.9 | 7281.6 | 7859.0 | 8606.1 | 8844.1 | 8205.0 | 7464.5 | 6710.8 | 6283.2 | 6248.0 |
| 57.5° | 7354.3 | 7319.0 | 7394.0 | 7713.5 | 7916.3 | 7354.3 | 6038.6 | 4844.1 | 4068.3 | 3740.0 | 3596.7 |
| 60° | 6567.5 | 6543.3 | 6486.0 | 6100.3 | 5232.0 | 3947.1 | 2688.7 | 1714.6 | 1232.0 | 996.1 | 996.1 |
| 62.5° | 4074.9 | 4041.9 | 3731.1 | 2772.5 | 2014.3 | 1165.8 | 641.3 | 401.1 | 304.1 | 284.3 | 282.1 |
| 65° | 1143.8 | 1137.2 | 941.1 | 665.6 | 423.1 | 262.3 | 231.4 | 235.8 | 231.4 | 224.8 | 222.6 |
| 67.5° | 171.9 | 189.5 | 189.5 | 154.3 | 147.7 | 165.3 | 193.9 | 207.2 | 196.1 | 185.1 | 180.7 |
| 70° | 110.2 | 119.0 | 114.6 | 99.2 | 105.8 | 123.4 | 138.8 | 141.0 | 134.4 | 123.4 | 121.2 |
| 72.5° | 77.1 | 86.0 | 70.5 | 63.9 | 66.1 | 72.7 | 79.3 | 79.3 | 77.1 | 72.7 | 68.3 |
| 75° | 46.3 | 46.3 | 33.1 | 30.9 | 30.9 | 33.1 | 33.1 | 37.5 | 37.5 | 35.3 | 33.1 |
| 77.5° | 15.4 | 17.6 | 11.0 | 8.8 | 8.8 | 8.8 | 11.0 | 13.2 | 13.2 | 11.0 | 8.8 |
| 80° | 2.2 | 4.4 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 4.4 | 4.4 | 2.2 |
| 82.5° | 2.2 | 2.2 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 2.2 | 2.2 | 2.2 | 2.2 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.2 | 2.2 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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)