

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: P636406

Luminaire Tested: GWS-SA3F-760-U-T3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636406
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3F-760-U-T3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (48) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15232.9 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

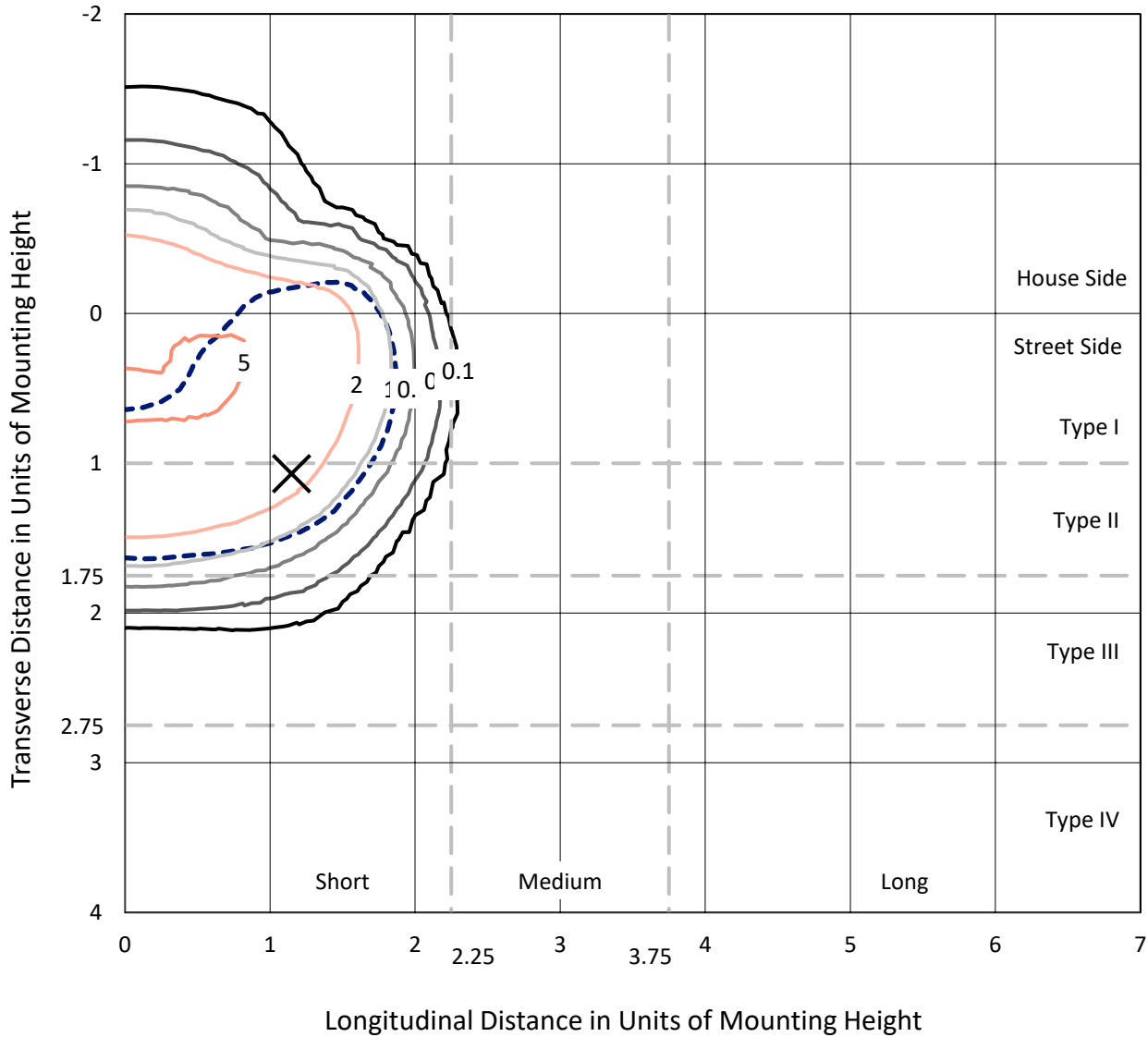
Input Watts (W): 183.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

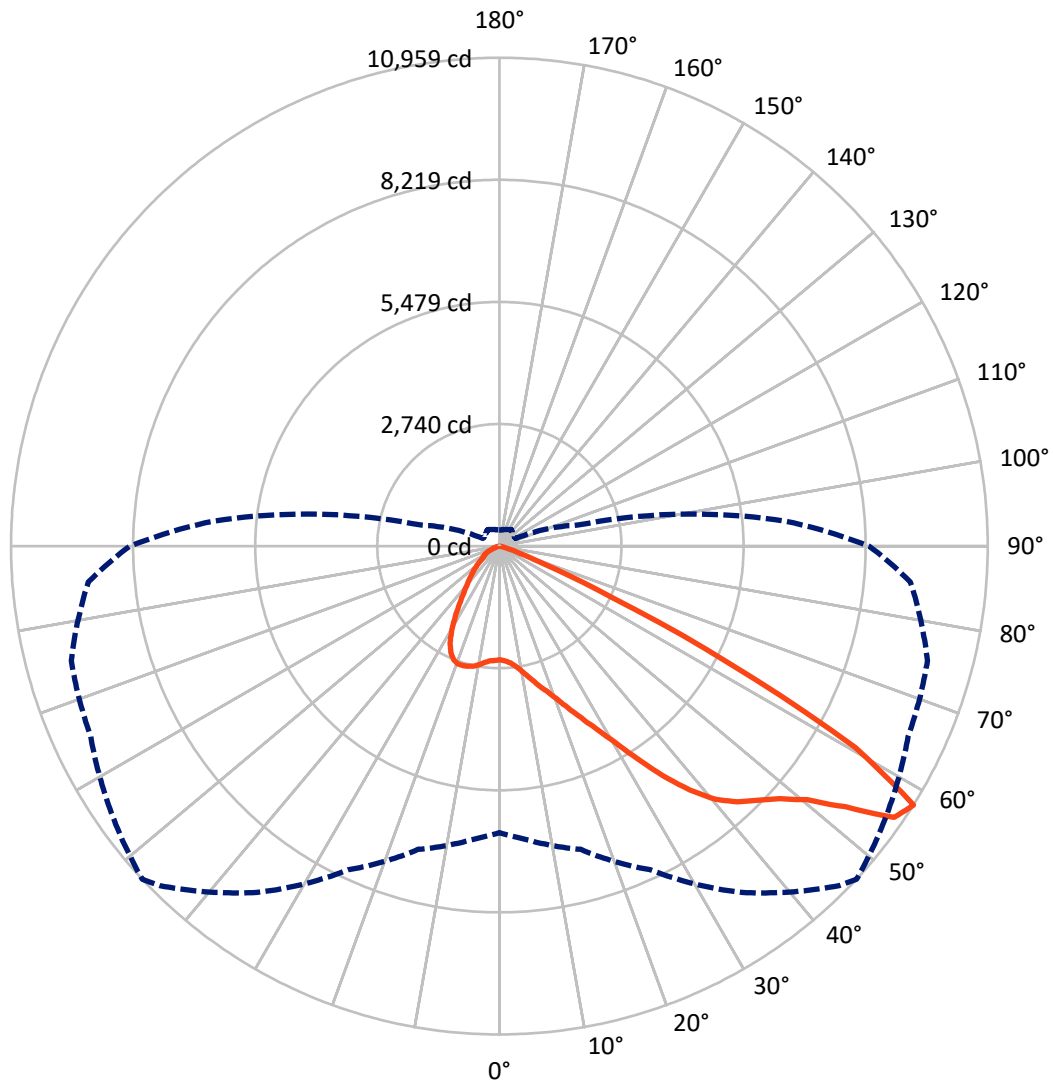
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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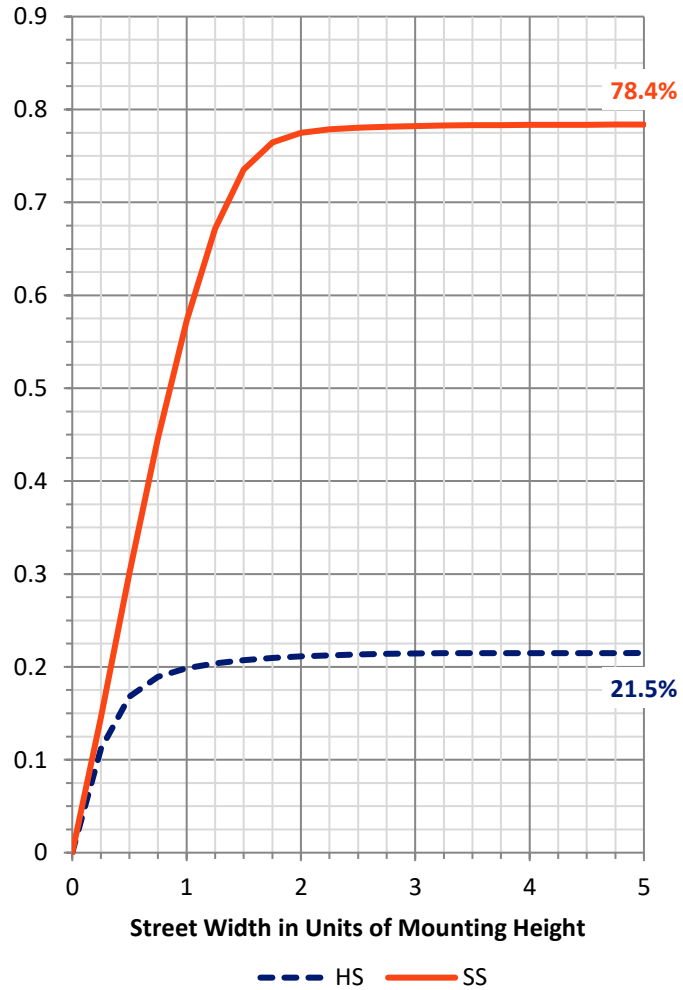
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3304.8 | 0.0 | 3304.8 |
| | % Fixture | 21.7 | 0.0 | 21.7 |
| Street Side | Lumens | 11928.1 | 0.0 | 11928.1 |
| | % Fixture | 78.3 | 0.0 | 78.3 |
| Total | Lumens | 15232.9 | 0.0 | 15232.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 253.7 | 1.7 |
| 10°-20° | 856.0 | 5.6 |
| 20°-30° | 1589.4 | 10.4 |
| 30°-40° | 2544.4 | 16.7 |
| 40°-50° | 3719.3 | 24.4 |
| 50°-60° | 4590.3 | 30.1 |
| 60°-70° | 1533.8 | 10.1 |
| 70°-80° | 142.9 | 0.9 |
| 80°-90° | 3.0 | 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° | 15232.9 | 100.0 |
| 0°-180° | 15232.9 | 100.0 |

Coefficient of Utilization



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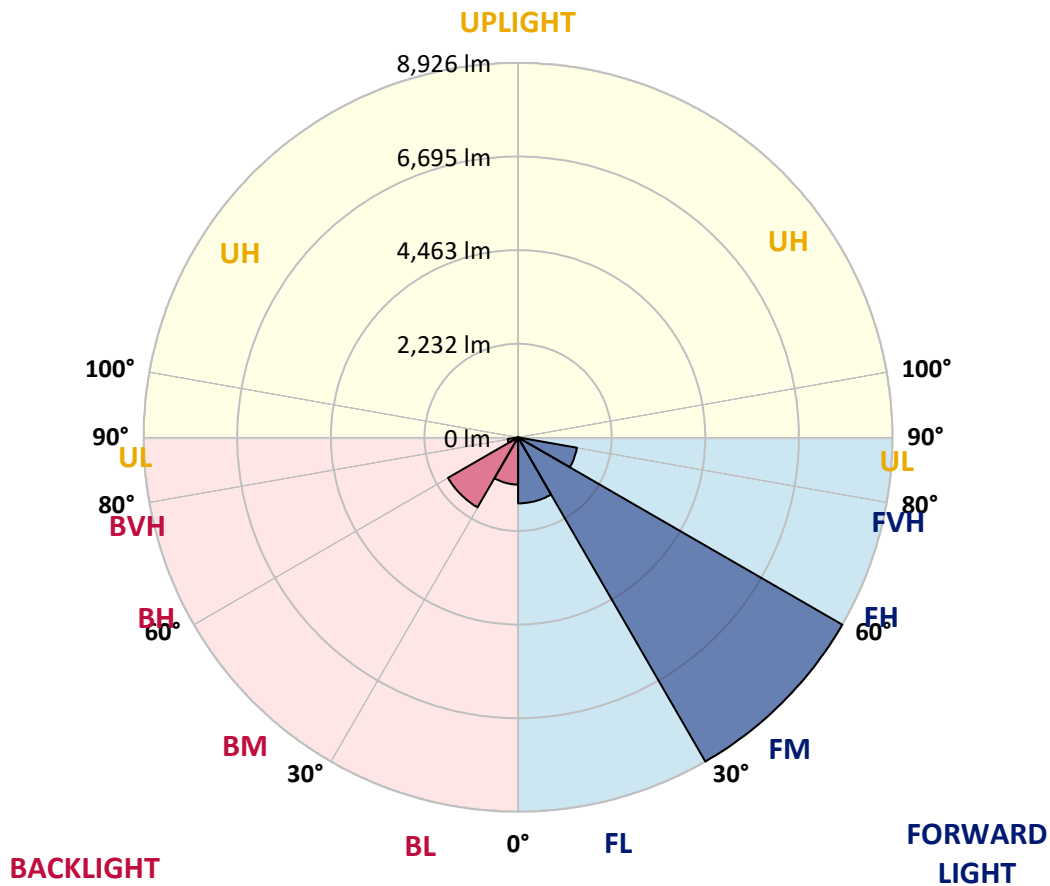
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1574.3 | 10.3 | | | |
| FM (30°-60°) | 8926.4 | 58.6 | | | |
| FH (60°-80°) | 1425.5 | 9.4 | | | G1/1800 |
| FVH (80°-90°) | 2.0 | 0.0 | | | G0/10 |
| BL (0°-30°) | 1124.9 | 7.4 | B3/2500 | | |
| BM (30°-60°) | 1927.7 | 12.7 | B2/2500 | | |
| BH (60°-80°) | 251.3 | 1.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 0.9 | 0.0 | | | G0/10 |
| 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° | 47° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|--------|--------|
| 0° | 2550.0 | 2550.0 | 2550.0 | 2550.0 | 2550.0 | 2550.0 | 2550.0 | 2550.0 | 2550.0 | 2550.0 | 2550.0 |
| 2.5° | 2576.5 | 2574.8 | 2573.0 | 2583.6 | 2580.1 | 2578.3 | 2581.8 | 2581.8 | 2581.8 | 2571.2 | 2550.0 |
| 5° | 2638.4 | 2638.4 | 2636.7 | 2647.3 | 2638.4 | 2633.1 | 2634.9 | 2634.9 | 2627.8 | 2608.4 | 2581.8 |
| 7.5° | 2735.7 | 2732.1 | 2728.6 | 2739.2 | 2730.4 | 2728.6 | 2732.1 | 2721.5 | 2709.2 | 2677.3 | 2640.2 |
| 10° | 2875.4 | 2875.4 | 2870.1 | 2880.7 | 2873.6 | 2870.1 | 2870.1 | 2863.0 | 2840.0 | 2790.5 | 2735.7 |
| 12.5° | 3068.1 | 3059.3 | 3046.9 | 3038.1 | 3034.5 | 3032.8 | 3034.5 | 3023.9 | 2999.2 | 2935.5 | 2859.5 |
| 15° | 3278.6 | 3271.5 | 3252.1 | 3237.9 | 3218.5 | 3214.9 | 3225.5 | 3216.7 | 3191.9 | 3105.3 | 2997.4 |
| 17.5° | 3543.8 | 3552.7 | 3503.2 | 3473.1 | 3416.5 | 3413.0 | 3416.5 | 3430.7 | 3413.0 | 3301.6 | 3144.2 |
| 20° | 3770.2 | 3777.3 | 3740.1 | 3718.9 | 3667.6 | 3644.6 | 3651.7 | 3674.7 | 3655.2 | 3524.4 | 3305.1 |
| 22.5° | 4012.5 | 4021.3 | 3982.4 | 3938.2 | 3915.2 | 3915.2 | 3941.7 | 3973.5 | 3947.0 | 3775.5 | 3489.0 |
| 25° | 4302.5 | 4309.5 | 4277.7 | 4219.4 | 4178.7 | 4230.0 | 4268.9 | 4353.8 | 4309.5 | 4076.1 | 3706.5 |
| 27.5° | 4634.9 | 4636.7 | 4590.7 | 4530.6 | 4509.4 | 4604.9 | 4643.8 | 4774.6 | 4756.9 | 4413.9 | 3936.4 |
| 30° | 4990.4 | 4992.1 | 4981.5 | 4940.9 | 4921.4 | 5047.0 | 5100.0 | 5289.2 | 5276.8 | 4833.0 | 4249.4 |
| 32.5° | 5360.0 | 5360.0 | 5379.4 | 5375.9 | 5398.9 | 5604.0 | 5688.9 | 5904.6 | 5892.2 | 5345.8 | 4638.5 |
| 35° | 5731.3 | 5733.1 | 5766.7 | 5851.6 | 5947.1 | 6219.4 | 6330.8 | 6592.5 | 6564.2 | 5959.4 | 5135.4 |
| 37.5° | 6154.0 | 6136.3 | 6182.3 | 6309.6 | 6521.8 | 6836.6 | 6942.7 | 7192.0 | 7160.2 | 6587.2 | 5784.4 |
| 40° | 6663.3 | 6631.4 | 6631.4 | 6780.0 | 7020.5 | 7383.0 | 7473.2 | 7597.0 | 7489.1 | 7094.7 | 6421.0 |
| 42.5° | 7225.6 | 7195.5 | 7156.6 | 7287.5 | 7489.1 | 7772.0 | 7846.3 | 7812.7 | 7724.3 | 7574.0 | 7146.0 |
| 45° | 7795.0 | 7749.0 | 7775.6 | 7855.1 | 7971.9 | 8106.3 | 8134.5 | 7978.9 | 7938.3 | 7980.7 | 7745.5 |
| 47.5° | 8228.3 | 8196.4 | 8261.9 | 8373.3 | 8468.8 | 8488.2 | 8468.8 | 8253.0 | 8249.5 | 8399.8 | 8161.1 |
| 50° | 8373.3 | 8376.8 | 8557.2 | 8801.2 | 8955.1 | 8971.0 | 8944.5 | 8696.9 | 8663.3 | 8707.5 | 8385.7 |
| 52.5° | 8387.4 | 8401.6 | 8665.1 | 9130.1 | 9549.3 | 9740.2 | 9719.0 | 9452.0 | 9123.1 | 9075.3 | 8725.2 |
| 55° | 8046.1 | 8129.2 | 8497.1 | 9176.1 | 10067.4 | 10677.5 | 10748.2 | 10237.2 | 9749.1 | 9708.4 | 9455.5 |
| 57.5° | 6431.6 | 6601.4 | 7045.2 | 8012.5 | 9489.1 | 10774.7 | 10958.7 | 10590.8 | 10118.7 | 9945.4 | 9259.2 |
| 60° | 3844.5 | 4054.9 | 4481.1 | 5667.7 | 7222.1 | 8856.0 | 9172.6 | 9223.9 | 9006.4 | 8505.9 | 7103.6 |
| 62.5° | 1649.9 | 1632.2 | 2157.4 | 3066.4 | 4295.4 | 5628.8 | 5772.0 | 5994.8 | 6184.0 | 5660.6 | 4311.3 |
| 65° | 565.9 | 615.4 | 855.9 | 1382.9 | 2150.3 | 2613.7 | 2741.0 | 2940.8 | 3209.6 | 2649.0 | 1579.2 |
| 67.5° | 350.1 | 371.4 | 493.4 | 817.0 | 1160.1 | 1142.4 | 1085.8 | 1054.0 | 1025.7 | 702.0 | 433.3 |
| 70° | 254.6 | 272.3 | 346.6 | 562.3 | 779.9 | 548.2 | 475.7 | 385.5 | 427.9 | 394.3 | 307.7 |
| 72.5° | 171.5 | 185.7 | 238.7 | 341.3 | 399.7 | 267.0 | 247.6 | 281.2 | 339.5 | 323.6 | 251.1 |
| 75° | 102.6 | 111.4 | 136.2 | 166.2 | 162.7 | 137.9 | 139.7 | 198.1 | 260.0 | 242.3 | 178.6 |
| 77.5° | 70.7 | 74.3 | 90.2 | 107.9 | 79.6 | 42.4 | 38.9 | 54.8 | 88.4 | 88.4 | 60.1 |
| 80° | 17.7 | 23.0 | 23.0 | 14.1 | 12.4 | 10.6 | 10.6 | 15.9 | 24.8 | 17.7 | 8.8 |
| 82.5° | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 3.5 | 3.5 | 3.5 | 3.5 |
| 85° | 0.0 | 0.0 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 3.5 | 3.5 | 3.5 |
| 87.5° | 0.0 | 0.0 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 3.5 | 3.5 |
| 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° | 2550.0 | 2550.0 | 2550.0 | 2550.0 | 2550.0 | 2550.0 | 2550.0 | 2550.0 | 2550.0 | 2550.0 | 2550.0 |
| 2.5° | 2562.4 | 2541.2 | 2555.3 | 2551.8 | 2562.4 | 2565.9 | 2550.0 | 2546.5 | 2548.2 | 2527.0 | 2519.9 |
| 5° | 2587.1 | 2562.4 | 2569.5 | 2562.4 | 2574.8 | 2585.4 | 2580.1 | 2587.1 | 2596.0 | 2580.1 | 2573.0 |
| 7.5° | 2640.2 | 2615.4 | 2613.7 | 2603.1 | 2620.7 | 2627.8 | 2626.0 | 2645.5 | 2663.2 | 2652.6 | 2642.0 |
| 10° | 2732.1 | 2698.5 | 2695.0 | 2686.2 | 2691.5 | 2696.8 | 2677.3 | 2680.9 | 2696.8 | 2684.4 | 2679.1 |
| 12.5° | 2845.3 | 2804.7 | 2795.8 | 2774.6 | 2774.6 | 2748.1 | 2705.6 | 2696.8 | 2709.2 | 2700.3 | 2691.5 |
| 15° | 2967.3 | 2912.5 | 2898.4 | 2861.2 | 2825.9 | 2776.4 | 2732.1 | 2721.5 | 2730.4 | 2719.8 | 2712.7 |
| 17.5° | 3103.5 | 3041.6 | 2995.6 | 2930.2 | 2852.4 | 2794.0 | 2744.5 | 2721.5 | 2707.4 | 2686.2 | 2684.4 |
| 20° | 3237.9 | 3156.6 | 3078.7 | 2974.4 | 2871.8 | 2783.4 | 2702.1 | 2642.0 | 2590.7 | 2558.8 | 2546.5 |
| 22.5° | 3393.5 | 3273.3 | 3147.7 | 3000.9 | 2854.2 | 2719.8 | 2576.5 | 2474.0 | 2385.5 | 2355.5 | 2341.3 |
| 25° | 3559.7 | 3404.1 | 3216.7 | 3025.7 | 2794.0 | 2578.3 | 2383.8 | 2231.7 | 2115.0 | 2076.1 | 2060.2 |
| 27.5° | 3743.7 | 3529.7 | 3287.4 | 3020.4 | 2670.3 | 2376.7 | 2118.5 | 1929.3 | 1814.4 | 1779.0 | 1791.4 |
| 30° | 3977.1 | 3692.4 | 3375.8 | 2965.6 | 2484.6 | 2093.8 | 1791.4 | 1632.2 | 1545.6 | 1512.0 | 1513.7 |
| 32.5° | 4288.3 | 3925.8 | 3504.9 | 2848.9 | 2245.8 | 1771.9 | 1506.7 | 1389.9 | 1331.6 | 1287.4 | 1283.8 |
| 35° | 4734.0 | 4281.2 | 3625.2 | 2661.4 | 1955.8 | 1485.4 | 1292.7 | 1200.7 | 1119.4 | 1068.1 | 1076.9 |
| 37.5° | 5268.0 | 4728.6 | 3690.6 | 2408.5 | 1630.4 | 1262.6 | 1131.8 | 1038.0 | 946.1 | 870.0 | 878.9 |
| 40° | 5901.1 | 5314.0 | 3685.3 | 2076.1 | 1333.4 | 1110.5 | 997.4 | 887.7 | 772.8 | 703.8 | 710.9 |
| 42.5° | 6606.7 | 5867.5 | 3570.4 | 1724.2 | 1105.2 | 986.8 | 868.3 | 730.3 | 618.9 | 576.5 | 578.3 |
| 45° | 7218.5 | 6316.7 | 3368.8 | 1359.9 | 930.2 | 866.5 | 733.9 | 592.4 | 542.9 | 512.8 | 511.1 |
| 47.5° | 7671.2 | 6645.6 | 3080.5 | 1069.9 | 788.7 | 756.9 | 603.0 | 530.5 | 491.6 | 466.9 | 463.3 |
| 50° | 7924.1 | 6760.5 | 2762.2 | 838.2 | 666.7 | 641.9 | 539.4 | 481.0 | 454.5 | 438.6 | 435.0 |
| 52.5° | 8263.6 | 6898.5 | 2534.1 | 661.4 | 558.8 | 525.2 | 496.9 | 447.4 | 429.7 | 417.3 | 412.0 |
| 55° | 8801.2 | 7165.5 | 2336.0 | 525.2 | 465.1 | 458.0 | 468.6 | 427.9 | 417.3 | 397.9 | 390.8 |
| 57.5° | 8295.5 | 6436.9 | 1814.4 | 406.7 | 392.6 | 419.1 | 452.7 | 408.5 | 382.0 | 364.3 | 357.2 |
| 60° | 5837.4 | 4279.5 | 912.5 | 327.2 | 350.1 | 392.6 | 426.2 | 369.6 | 343.1 | 346.6 | 343.1 |
| 62.5° | 3218.5 | 2141.5 | 410.3 | 274.1 | 304.2 | 346.6 | 364.3 | 320.1 | 302.4 | 332.5 | 337.8 |
| 65° | 1052.2 | 728.6 | 237.0 | 212.2 | 240.5 | 282.9 | 314.8 | 304.2 | 300.6 | 336.0 | 346.6 |
| 67.5° | 323.6 | 240.5 | 160.9 | 152.1 | 166.2 | 208.7 | 265.3 | 328.9 | 353.7 | 364.3 | 369.6 |
| 70° | 242.3 | 189.2 | 137.9 | 129.1 | 136.2 | 159.2 | 224.6 | 274.1 | 258.2 | 260.0 | 256.4 |
| 72.5° | 194.5 | 150.3 | 118.5 | 113.2 | 113.2 | 109.6 | 118.5 | 148.5 | 168.0 | 176.8 | 176.8 |
| 75° | 136.2 | 106.1 | 90.2 | 83.1 | 65.4 | 53.1 | 47.7 | 47.7 | 42.4 | 40.7 | 38.9 |
| 77.5° | 46.0 | 38.9 | 35.4 | 28.3 | 19.5 | 15.9 | 14.1 | 12.4 | 8.8 | 5.3 | 3.5 |
| 80° | 7.1 | 5.3 | 3.5 | 3.5 | 3.5 | 1.8 | 1.8 | 1.8 | 0.0 | 0.0 | 0.0 |
| 82.5° | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 1.8 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 1.8 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 3.5 | 3.5 | 3.5 | 3.5 | 1.8 | 1.8 | 1.8 | 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)