

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: P643772

Luminaire Tested: GWS-SA6F-750-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643772
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6F-750-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34127.7 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

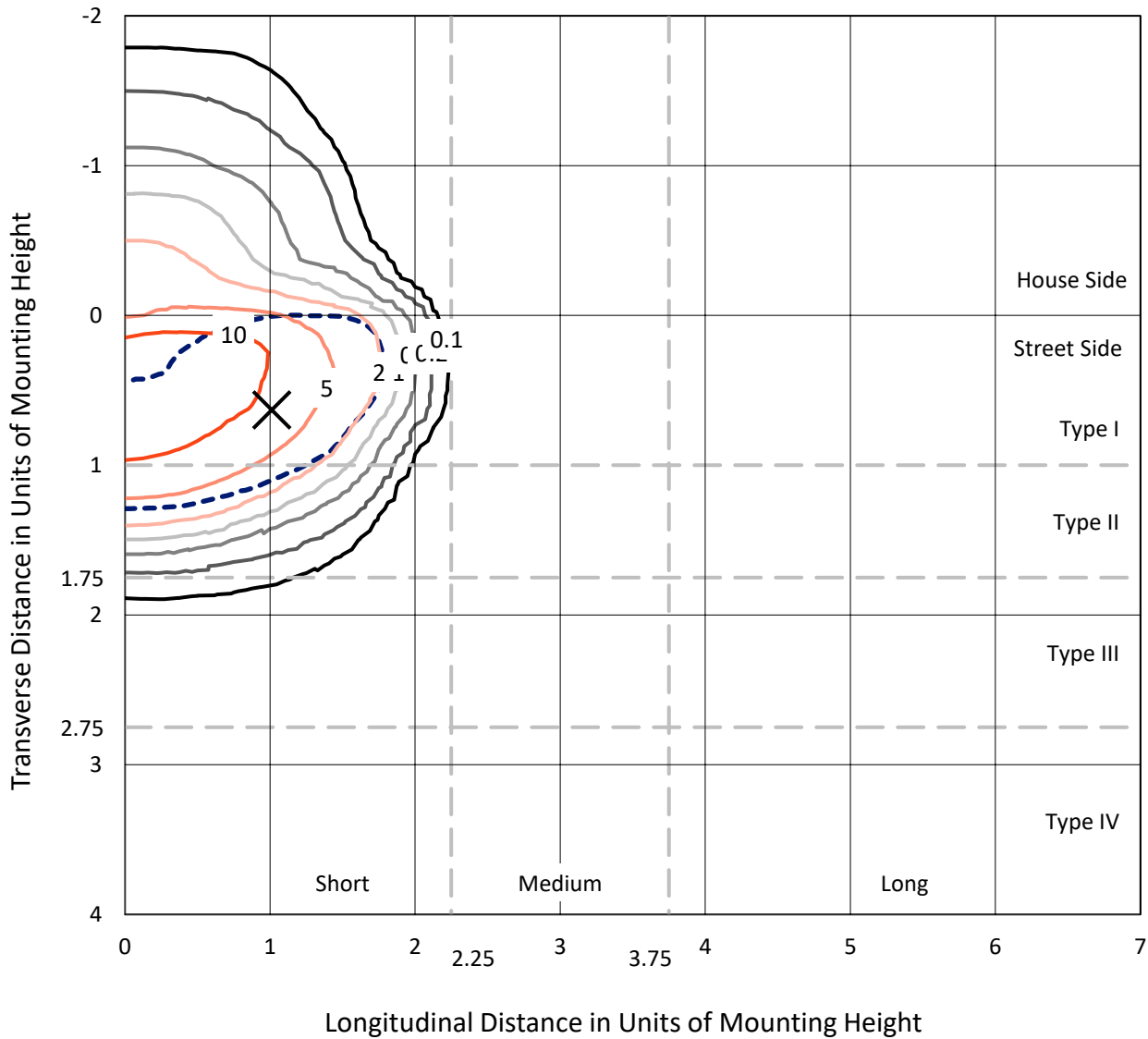
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

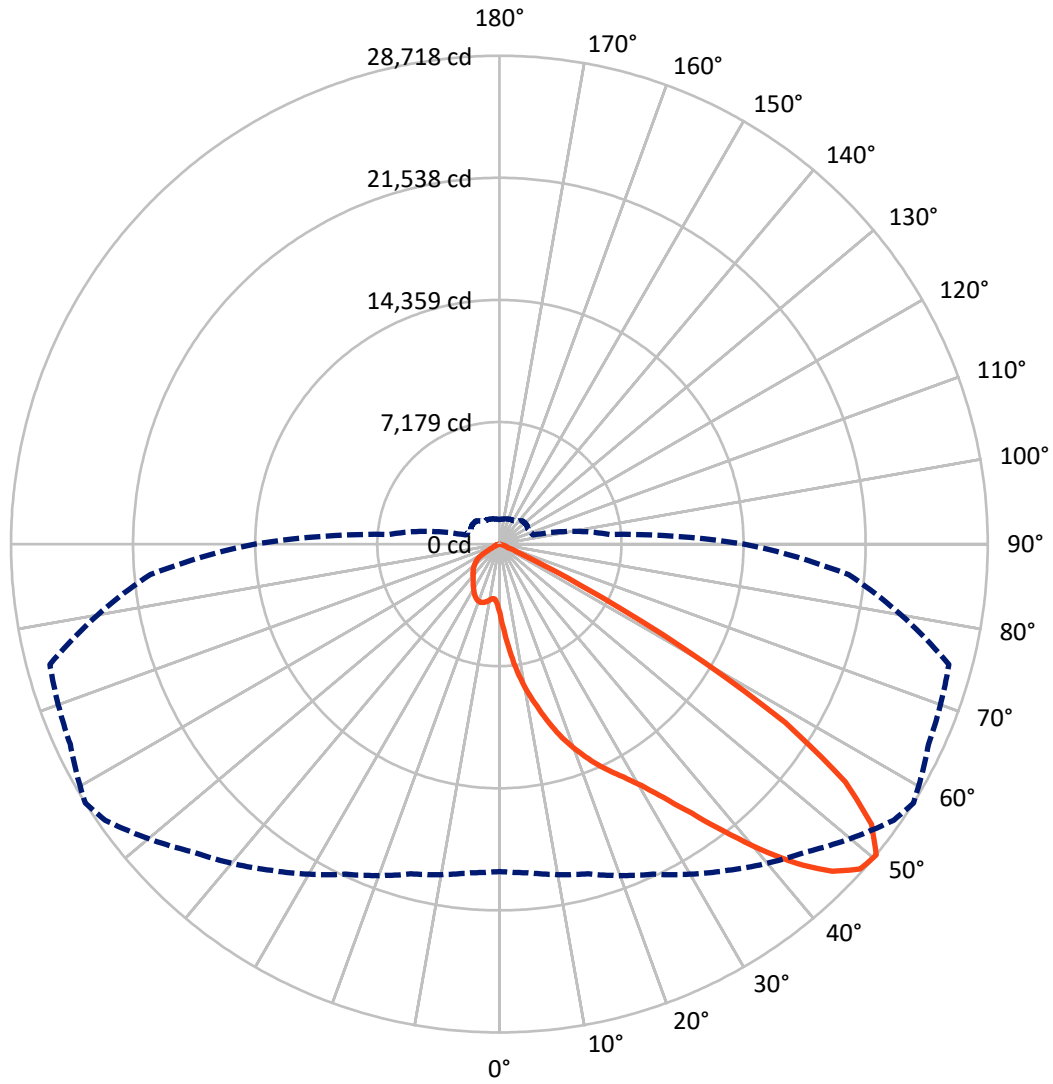
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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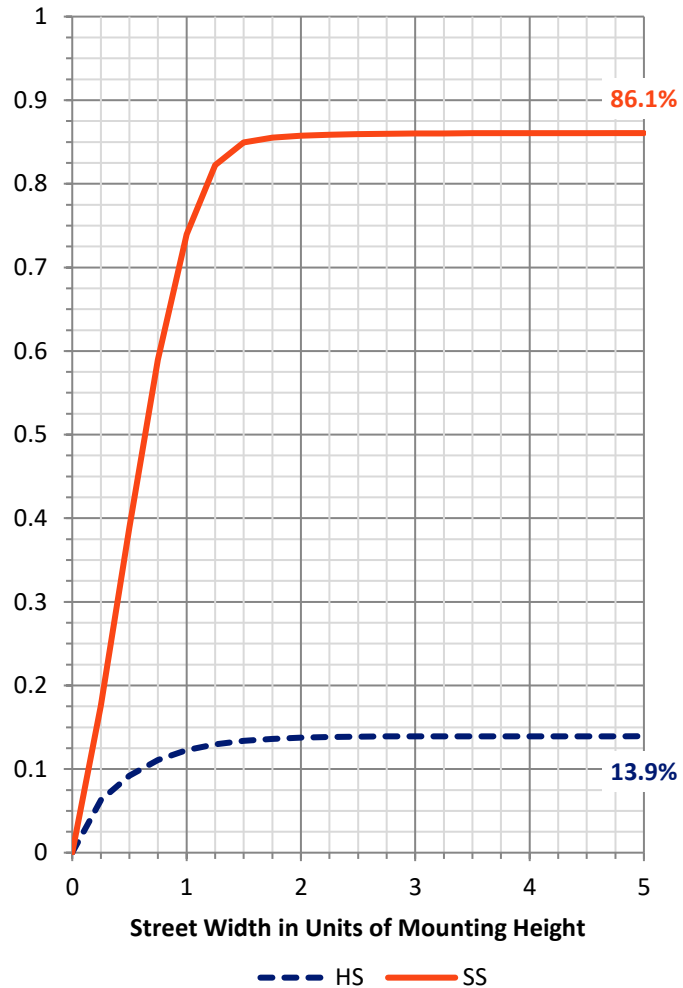
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4780.0 | 0.0 | 4780.0 |
| | % Fixture | 14.0 | 0.0 | 14.0 |
| Street Side | Lumens | 29347.7 | 0.0 | 29347.7 |
| | % Fixture | 86.0 | 0.0 | 86.0 |
| Total | Lumens | 34127.7 | 0.0 | 34127.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 505.0 | 1.5 |
| 10°-20° | 1999.2 | 5.9 |
| 20°-30° | 4045.5 | 11.9 |
| 30°-40° | 7156.9 | 21.0 |
| 40°-50° | 10433.2 | 30.6 |
| 50°-60° | 8362.5 | 24.5 |
| 60°-70° | 1506.6 | 4.4 |
| 70°-80° | 118.7 | 0.3 |
| 80°-90° | 0.1 | 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° | 34127.7 | 100.0 |
| 0°-180° | 34127.7 | 100.0 |

Coefficient of Utilization



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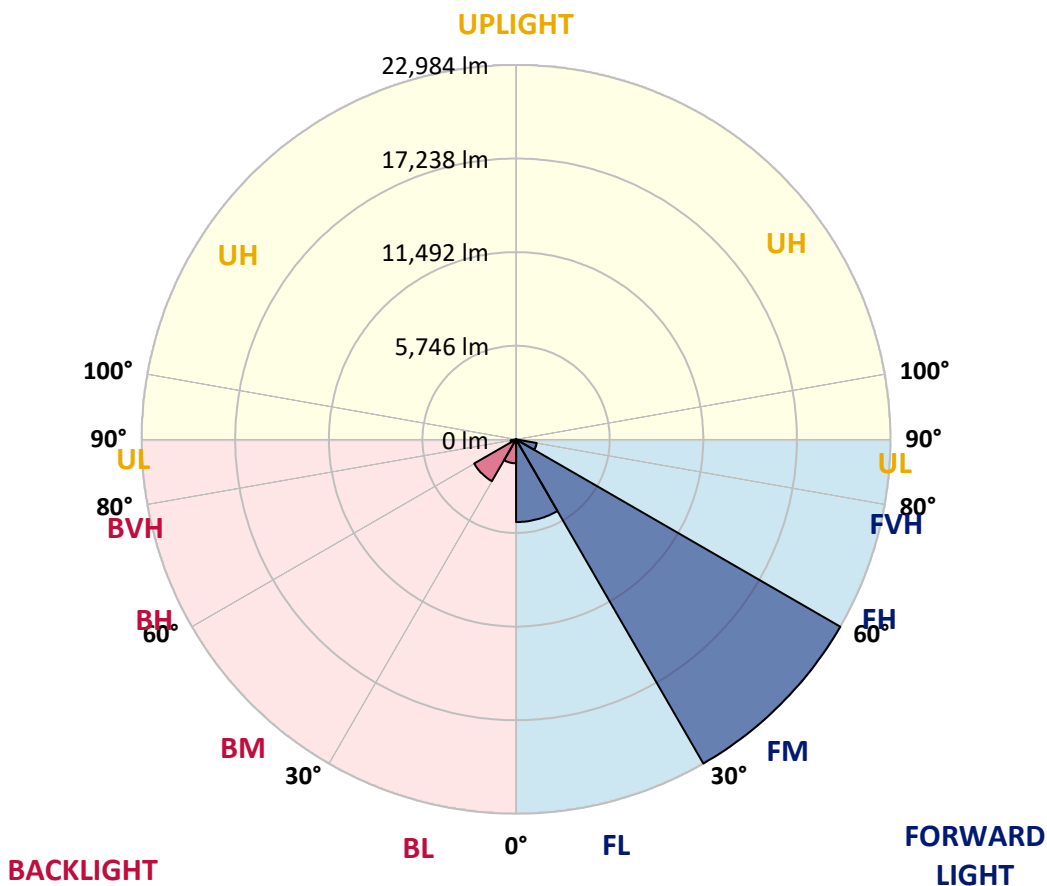
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 5078.1 | 14.9 | | | |
| FM (30°-60°) | 22984.0 | 67.3 | | | |
| FH (60°-80°) | 1285.6 | 3.8 | | | G1/1800 |
| FVH (80°-90°) | 0.0 | 0.0 | | | G0/10 |
| BL (0°-30°) | 1471.6 | 4.3 | B3/2500 | | |
| BM (30°-60°) | 2968.6 | 8.7 | B3/5000 | | |
| BH (60°-80°) | 339.7 | 1.0 | B1/500 | | G1/500 |
| BVH (80°-90°) | 0.1 | 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° | 55° | 58° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4076.5 | 4076.5 | 4076.5 | 4076.5 | 4076.5 | 4076.5 | 4076.5 | 4076.5 | 4076.5 | 4076.5 | 4076.5 |
| 2.5° | 6032.6 | 5937.7 | 5883.0 | 5839.2 | 5645.8 | 5339.2 | 5138.5 | 5032.7 | 4857.5 | 4561.9 | 4306.4 |
| 5° | 7872.0 | 7802.6 | 7674.9 | 7587.3 | 7339.2 | 6904.9 | 6456.0 | 6277.1 | 5879.3 | 5211.5 | 4613.0 |
| 7.5° | 9090.9 | 9039.8 | 8992.4 | 8875.6 | 8642.0 | 8247.9 | 7751.5 | 7565.4 | 6952.3 | 6003.4 | 5021.7 |
| 10° | 10028.8 | 9988.7 | 9933.9 | 9930.3 | 9747.8 | 9393.8 | 8908.4 | 8715.0 | 8050.8 | 6864.7 | 5503.5 |
| 12.5° | 10853.6 | 10820.8 | 10809.8 | 10912.0 | 10795.2 | 10532.5 | 10006.9 | 9766.1 | 9061.7 | 7744.2 | 6036.3 |
| 15° | 11419.3 | 11412.0 | 11459.4 | 11660.2 | 11725.9 | 11605.4 | 11163.8 | 10904.7 | 10094.5 | 8627.4 | 6623.8 |
| 17.5° | 11678.4 | 11700.3 | 11791.5 | 12138.2 | 12430.2 | 12532.4 | 12193.0 | 11974.0 | 11120.0 | 9521.6 | 7251.6 |
| 20° | 12120.0 | 12112.7 | 12167.4 | 12495.9 | 12853.6 | 13218.5 | 13116.3 | 12930.2 | 12156.5 | 10466.8 | 7948.6 |
| 22.5° | 13364.5 | 13258.6 | 13141.9 | 13193.0 | 13320.7 | 13747.7 | 13937.5 | 13842.6 | 13225.8 | 11437.5 | 8667.6 |
| 25° | 15276.8 | 15167.3 | 14791.4 | 14426.5 | 14185.6 | 14379.0 | 14638.2 | 14685.6 | 14287.8 | 12433.9 | 9419.4 |
| 27.5° | 17305.9 | 17207.4 | 16784.1 | 16236.6 | 15546.9 | 15211.1 | 15404.6 | 15499.4 | 15331.6 | 13619.9 | 10218.6 |
| 30° | 19207.3 | 19076.0 | 18612.5 | 17933.7 | 17134.4 | 16619.8 | 16400.9 | 16466.6 | 16565.1 | 15025.0 | 11156.5 |
| 32.5° | 20856.9 | 20758.4 | 20203.7 | 19488.3 | 18718.3 | 18181.8 | 17670.9 | 17780.4 | 18021.2 | 16743.9 | 12357.2 |
| 35° | 22254.7 | 22203.6 | 21616.0 | 20904.4 | 20090.5 | 19816.8 | 19378.9 | 19400.8 | 19641.6 | 18820.5 | 13820.7 |
| 37.5° | 23470.0 | 23382.4 | 22849.5 | 22189.0 | 21543.0 | 21499.2 | 21378.8 | 21389.7 | 21513.8 | 21240.1 | 15503.1 |
| 40° | 24236.4 | 24156.1 | 23776.5 | 23367.8 | 22907.9 | 22915.2 | 23539.3 | 23586.7 | 23444.4 | 23615.9 | 17280.4 |
| 42.5° | 24524.7 | 24466.3 | 24261.9 | 24265.5 | 24218.1 | 24433.4 | 25604.9 | 25692.5 | 25181.6 | 25480.8 | 18798.6 |
| 45° | 24024.7 | 23999.1 | 24013.7 | 24539.3 | 25108.6 | 25772.8 | 27294.6 | 27447.9 | 26725.3 | 26718.0 | 19984.7 |
| 47.5° | 22411.6 | 22360.5 | 22787.5 | 23681.6 | 24999.1 | 26291.0 | 28316.5 | 28553.7 | 27805.6 | 27426.0 | 20729.2 |
| 50° | 19251.1 | 19397.1 | 20072.3 | 21415.3 | 23418.9 | 25579.4 | 28305.5 | 28717.9 | 27845.7 | 27364.0 | 20605.1 |
| 52.5° | 13944.8 | 13915.6 | 15393.6 | 17240.3 | 19678.1 | 23302.1 | 26802.0 | 27404.1 | 26871.3 | 26754.5 | 20327.7 |
| 55° | 7587.3 | 7853.7 | 8850.0 | 11295.2 | 14338.9 | 18992.0 | 23367.8 | 24681.6 | 25298.4 | 26531.9 | 20827.7 |
| 57.5° | 2788.2 | 2905.0 | 3529.1 | 5258.9 | 7591.0 | 11809.8 | 17849.7 | 19831.4 | 21736.4 | 25911.5 | 20743.8 |
| 60° | 1124.0 | 1145.9 | 1394.1 | 1934.2 | 3189.7 | 6010.7 | 10707.6 | 12466.7 | 14262.3 | 19835.1 | 15919.1 |
| 62.5° | 817.5 | 846.7 | 945.2 | 1131.3 | 1613.1 | 2627.6 | 4616.6 | 5368.4 | 5868.4 | 9824.5 | 7842.8 |
| 65° | 660.6 | 682.5 | 762.7 | 846.7 | 1065.7 | 1412.4 | 1489.0 | 1434.3 | 1427.0 | 2540.1 | 1799.2 |
| 67.5° | 547.4 | 569.3 | 627.7 | 686.1 | 766.4 | 704.4 | 510.9 | 536.5 | 437.9 | 434.3 | 354.0 |
| 70° | 401.4 | 427.0 | 485.4 | 547.4 | 459.8 | 189.8 | 295.6 | 437.9 | 332.1 | 277.4 | 270.1 |
| 72.5° | 302.9 | 321.2 | 375.9 | 357.7 | 135.0 | 73.0 | 197.1 | 317.5 | 255.5 | 204.4 | 200.7 |
| 75° | 226.3 | 237.2 | 189.8 | 58.4 | 14.6 | 18.2 | 73.0 | 131.4 | 142.3 | 116.8 | 116.8 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.3 | 10.9 | 14.6 | 18.2 | 21.9 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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° | 4076.5 | 4076.5 | 4076.5 | 4076.5 | 4076.5 | 4076.5 | 4076.5 | 4076.5 | 4076.5 | 4076.5 | 4076.5 |
| 2.5° | 4160.4 | 4007.2 | 3788.2 | 3605.7 | 3467.0 | 3332.0 | 3229.8 | 3127.6 | 3124.0 | 3072.9 | 3061.9 |
| 5° | 4335.6 | 4058.2 | 3656.8 | 3368.5 | 3193.3 | 3087.5 | 3014.5 | 2978.0 | 2959.7 | 2941.5 | 2934.2 |
| 7.5° | 4587.4 | 4189.6 | 3634.9 | 3328.3 | 3182.4 | 3113.0 | 3061.9 | 3040.0 | 3029.1 | 3014.5 | 3010.8 |
| 10° | 4897.6 | 4379.4 | 3715.2 | 3405.0 | 3277.3 | 3211.6 | 3156.8 | 3124.0 | 3105.7 | 3080.2 | 3072.9 |
| 12.5° | 5269.9 | 4613.0 | 3842.9 | 3532.7 | 3397.7 | 3310.1 | 3237.1 | 3189.7 | 3164.1 | 3131.3 | 3124.0 |
| 15° | 5671.3 | 4864.8 | 3985.3 | 3649.5 | 3488.9 | 3375.8 | 3284.6 | 3211.6 | 3164.1 | 3124.0 | 3113.0 |
| 17.5° | 6087.4 | 5120.3 | 4113.0 | 3729.8 | 3532.7 | 3397.7 | 3266.3 | 3167.8 | 3109.4 | 3058.3 | 3043.7 |
| 20° | 6554.5 | 5383.0 | 4196.9 | 3744.4 | 3518.1 | 3339.3 | 3186.0 | 3061.9 | 3003.5 | 2934.2 | 2919.6 |
| 22.5° | 7043.5 | 5627.5 | 4233.4 | 3711.5 | 3437.8 | 3229.8 | 3065.6 | 2937.9 | 2853.9 | 2780.9 | 2759.0 |
| 25° | 7518.0 | 5846.5 | 4215.2 | 3620.3 | 3317.4 | 3076.5 | 2908.7 | 2777.3 | 2686.0 | 2613.0 | 2594.8 |
| 27.5° | 8021.6 | 6029.0 | 4149.5 | 3485.3 | 3153.2 | 2908.7 | 2748.1 | 2634.9 | 2551.0 | 2470.7 | 2452.5 |
| 30° | 8587.3 | 6196.9 | 4043.6 | 3321.0 | 2959.7 | 2737.1 | 2613.0 | 2536.4 | 2445.2 | 2361.2 | 2335.7 |
| 32.5° | 9269.7 | 6346.5 | 3890.4 | 3124.0 | 2788.2 | 2587.5 | 2518.2 | 2459.8 | 2353.9 | 2266.3 | 2248.1 |
| 35° | 10050.7 | 6470.6 | 3696.9 | 2919.6 | 2620.3 | 2492.6 | 2478.0 | 2401.4 | 2262.7 | 2160.5 | 2138.6 |
| 37.5° | 10955.8 | 6591.0 | 3467.0 | 2718.9 | 2496.3 | 2448.8 | 2452.5 | 2321.1 | 2153.2 | 2029.1 | 2014.5 |
| 40° | 11930.2 | 6711.4 | 3211.6 | 2543.7 | 2383.1 | 2423.3 | 2390.4 | 2204.3 | 1930.6 | 1810.2 | 1795.6 |
| 42.5° | 12944.8 | 6842.8 | 2952.4 | 2379.5 | 2288.2 | 2324.7 | 2277.3 | 1970.7 | 1773.7 | 1711.6 | 1704.3 |
| 45° | 13860.8 | 6999.7 | 2671.4 | 2215.2 | 2193.4 | 2182.4 | 2102.1 | 1784.6 | 1700.7 | 1656.9 | 1653.2 |
| 47.5° | 14521.4 | 6974.2 | 2372.2 | 2058.3 | 2091.2 | 2054.7 | 1810.2 | 1697.0 | 1627.7 | 1569.3 | 1554.7 |
| 50° | 14400.9 | 6529.0 | 2062.0 | 1883.1 | 1959.8 | 1926.9 | 1627.7 | 1594.8 | 1532.8 | 1470.7 | 1448.9 |
| 52.5° | 14094.4 | 5923.1 | 1791.9 | 1697.0 | 1817.5 | 1740.8 | 1503.6 | 1470.7 | 1416.0 | 1335.7 | 1310.2 |
| 55° | 14258.6 | 5353.8 | 1580.2 | 1547.4 | 1671.5 | 1441.6 | 1364.9 | 1313.8 | 1255.4 | 1167.8 | 1156.9 |
| 57.5° | 13729.4 | 4368.5 | 1270.0 | 1291.9 | 1478.0 | 1229.9 | 1197.0 | 1116.7 | 1018.2 | 959.8 | 952.5 |
| 60° | 9503.3 | 2346.6 | 795.6 | 821.1 | 1069.3 | 1032.8 | 1073.0 | 1000.0 | 879.5 | 824.8 | 813.8 |
| 62.5° | 4364.8 | 941.6 | 434.3 | 416.0 | 562.0 | 700.7 | 919.7 | 912.4 | 762.7 | 675.2 | 667.9 |
| 65° | 1058.4 | 430.6 | 310.2 | 292.0 | 317.5 | 419.7 | 598.5 | 719.0 | 616.8 | 514.6 | 503.6 |
| 67.5° | 343.1 | 350.4 | 284.7 | 266.4 | 281.0 | 313.9 | 357.7 | 397.8 | 394.1 | 361.3 | 354.0 |
| 70° | 273.7 | 317.5 | 262.8 | 240.9 | 240.9 | 251.8 | 240.9 | 193.4 | 167.9 | 182.5 | 189.8 |
| 72.5° | 204.4 | 240.9 | 208.0 | 186.1 | 178.8 | 175.2 | 149.6 | 109.5 | 76.6 | 69.3 | 65.7 |
| 75° | 120.4 | 135.0 | 127.7 | 109.5 | 102.2 | 91.2 | 73.0 | 47.4 | 25.5 | 18.2 | 10.9 |
| 77.5° | 21.9 | 25.5 | 29.2 | 21.9 | 18.2 | 14.6 | 10.9 | 3.6 | 0.0 | 0.0 | 0.0 |
| 80° | 0.0 | 3.6 | 3.6 | 3.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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 |

(END OF REPORT)