

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: P632698

Luminaire Tested: GWS-SA2D-730-U-SL3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632698
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-32)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2D-730-U-SL3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6218.9 lumens
Efficiency: N/A
Efficacy: 75.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

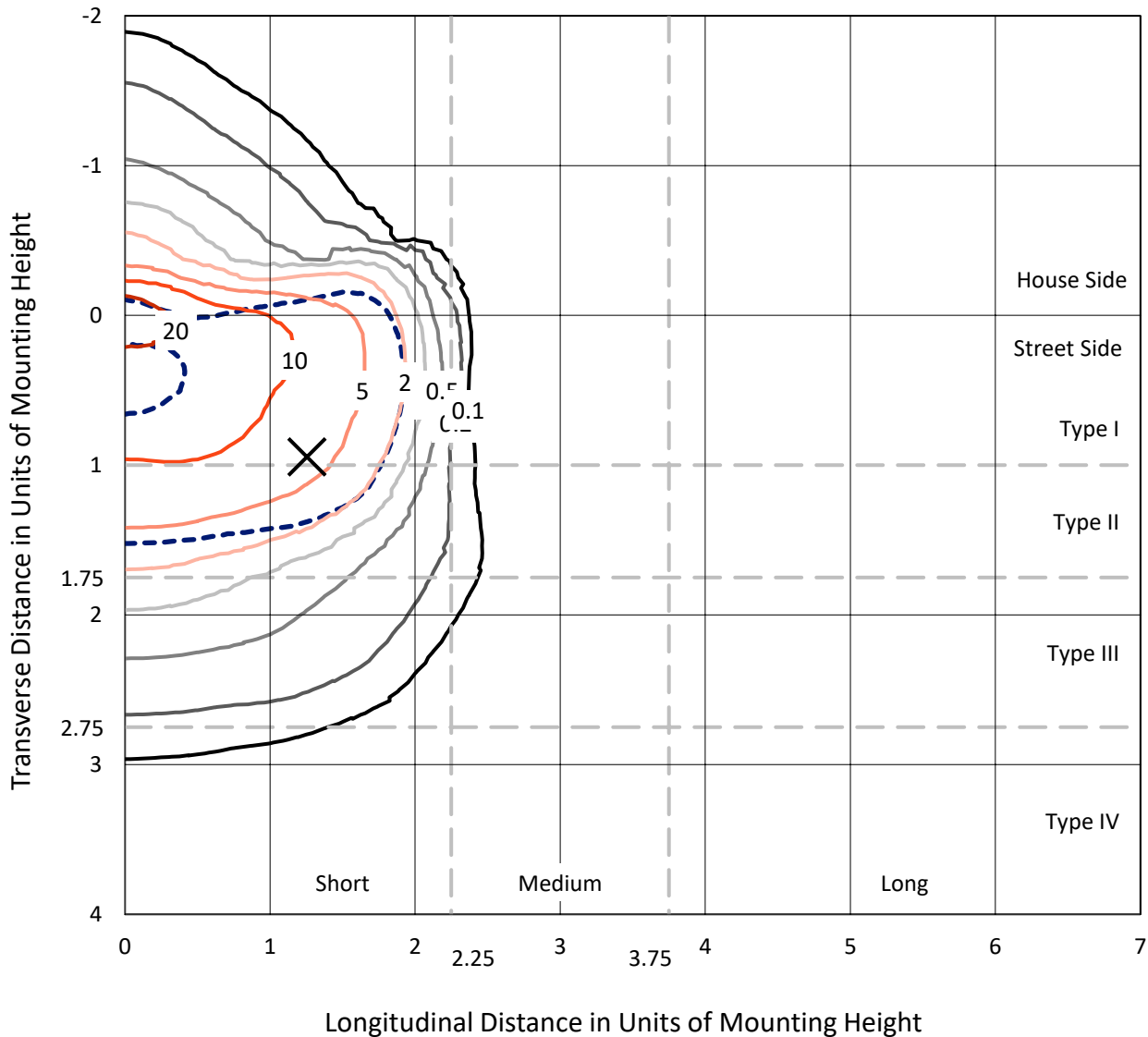
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

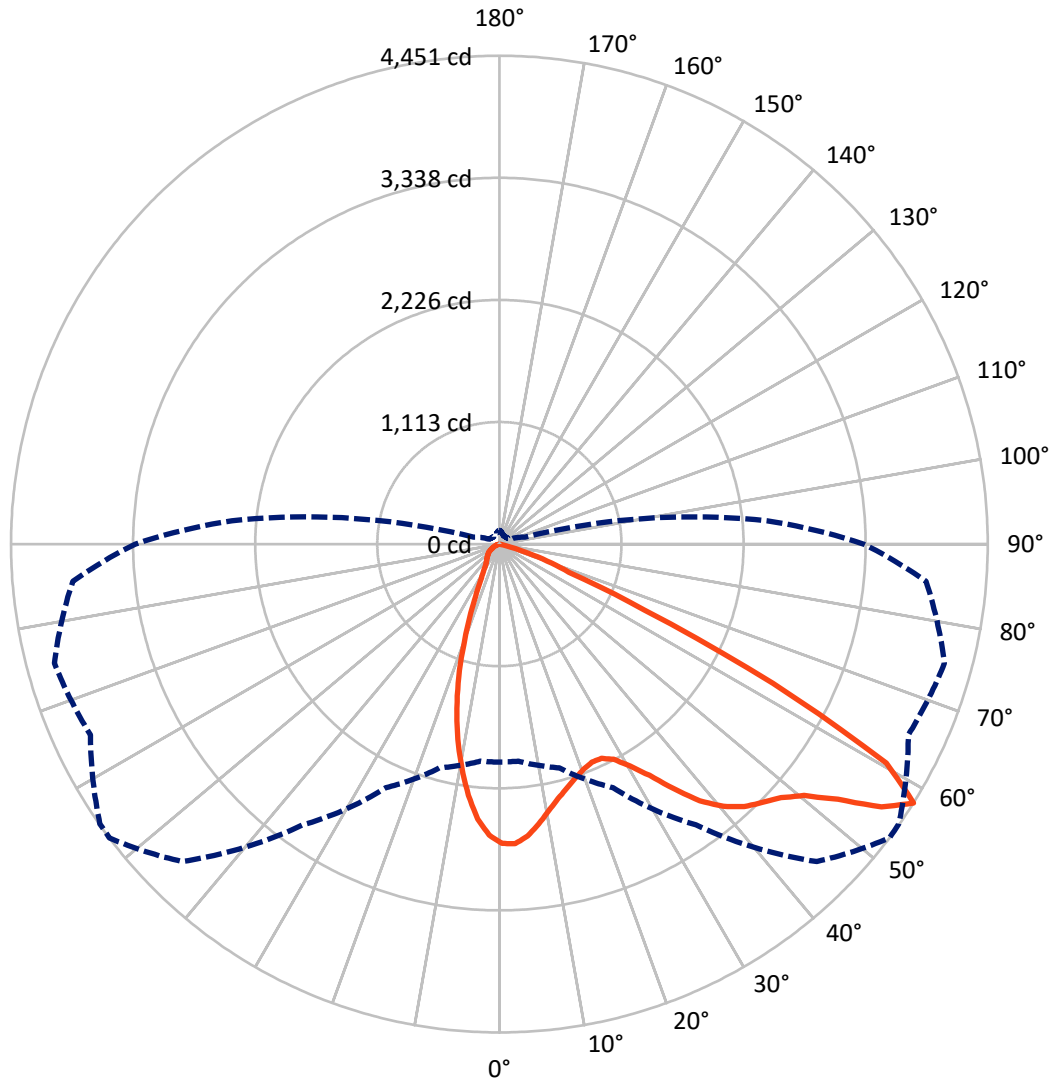
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 27.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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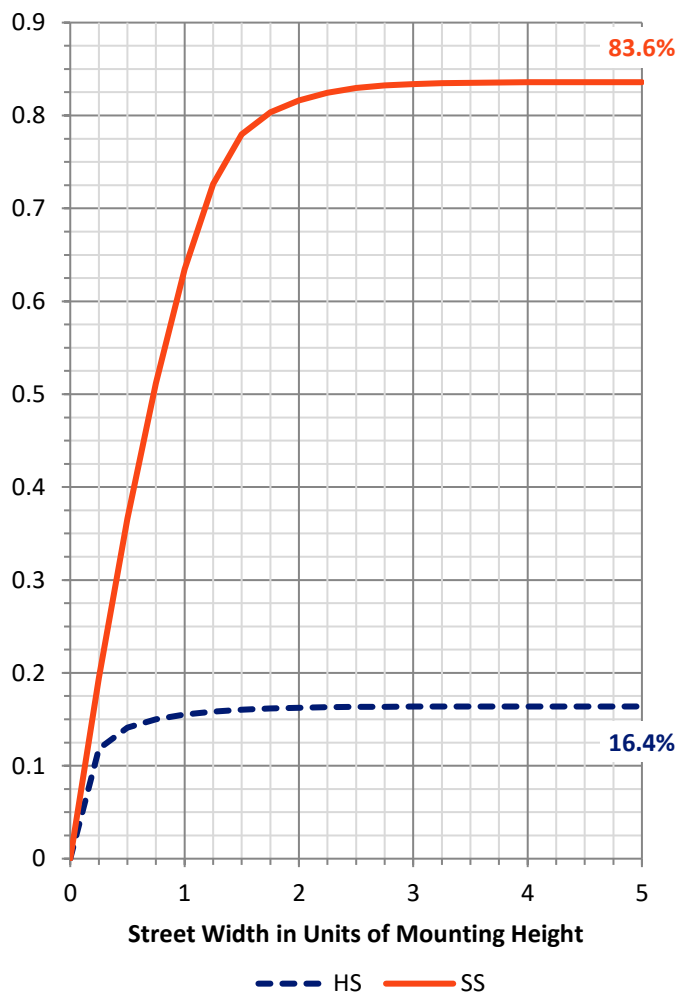
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1027.3 | 0.0 | 1027.3 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 5191.6 | 0.0 | 5191.6 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 6218.9 | 0.0 | 6218.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 233.4 | 3.8 |
| 10°-20° | 512.4 | 8.2 |
| 20°-30° | 667.5 | 10.7 |
| 30°-40° | 968.3 | 15.6 |
| 40°-50° | 1397.1 | 22.5 |
| 50°-60° | 1689.7 | 27.2 |
| 60°-70° | 688.6 | 11.1 |
| 70°-80° | 61.9 | 1.0 |
| 80°-90° | 0.0 | 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° | 6218.9 | 100.0 |
| 0°-180° | 6218.9 | 100.0 |

Coefficient of Utilization



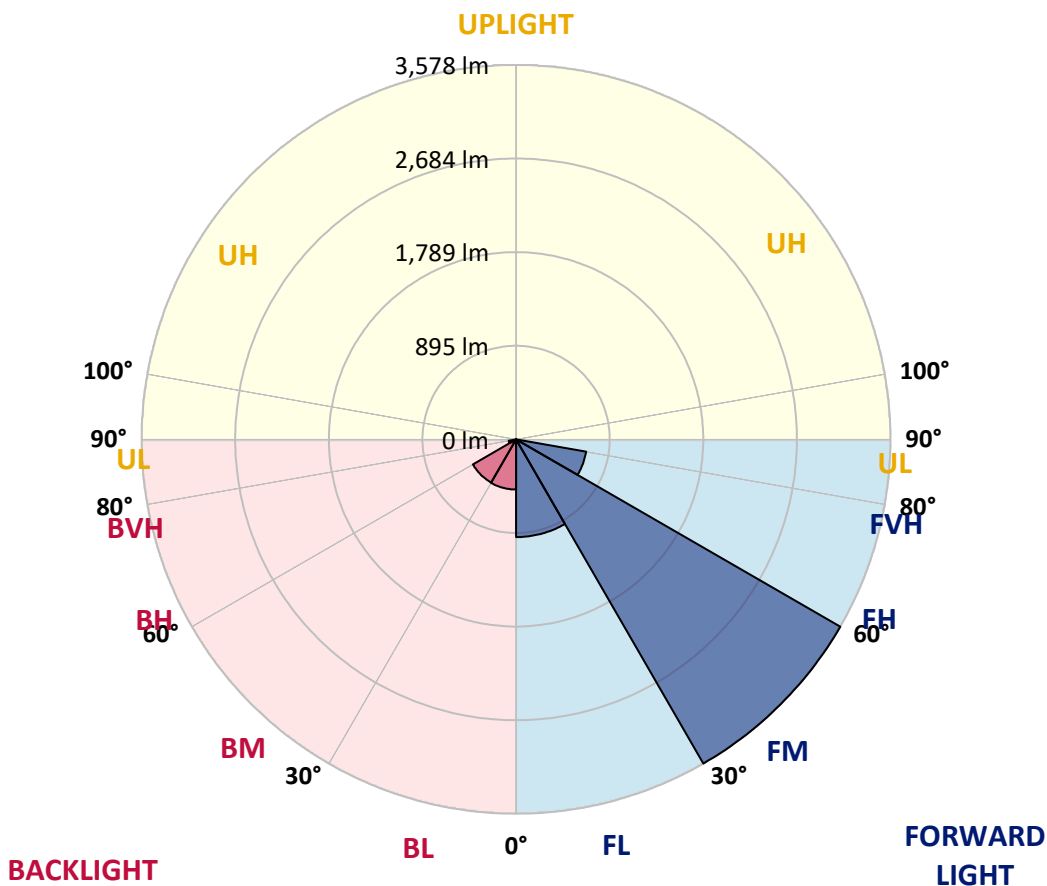
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 933.9 | 15.0 | | | |
| FM (30°-60°) | 3578.2 | 57.5 | | | |
| FH (60°-80°) | 679.5 | 10.9 | | | G1/1800 |
| FVH (80°-90°) | 0.0 | 0.0 | | | G0/10 |
| BL (0°-30°) | 479.4 | 7.7 | B1/500 | | |
| BM (30°-60°) | 476.8 | 7.7 | B1/1000 | | |
| BH (60°-80°) | 71.0 | 1.1 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.0 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 53° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2728.0 | 2728.0 | 2728.0 | 2728.0 | 2728.0 | 2728.0 | 2728.0 | 2728.0 | 2728.0 | 2728.0 | 2728.0 |
| 2.5° | 2689.9 | 2696.0 | 2706.6 | 2720.3 | 2729.5 | 2734.1 | 2734.1 | 2747.0 | 2738.6 | 2731.8 | 2724.2 |
| 5° | 2574.8 | 2580.9 | 2595.3 | 2617.4 | 2639.5 | 2655.6 | 2673.8 | 2687.6 | 2692.9 | 2692.9 | 2679.9 |
| 7.5° | 2412.4 | 2420.8 | 2429.9 | 2460.4 | 2508.4 | 2544.3 | 2575.5 | 2595.3 | 2624.3 | 2633.4 | 2615.2 |
| 10° | 2237.9 | 2246.2 | 2266.8 | 2308.7 | 2363.6 | 2417.0 | 2470.3 | 2495.5 | 2545.0 | 2570.9 | 2550.4 |
| 12.5° | 2090.0 | 2093.8 | 2121.2 | 2171.5 | 2241.7 | 2314.8 | 2379.6 | 2405.5 | 2475.7 | 2514.5 | 2490.2 |
| 15° | 1968.0 | 1970.3 | 1997.8 | 2053.4 | 2134.2 | 2224.1 | 2305.7 | 2332.4 | 2418.5 | 2477.2 | 2440.6 |
| 17.5° | 1875.8 | 1876.6 | 1900.2 | 1960.4 | 2045.0 | 2144.9 | 2241.7 | 2274.4 | 2385.7 | 2456.6 | 2401.7 |
| 20° | 1829.3 | 1827.0 | 1843.8 | 1896.4 | 1976.4 | 2076.3 | 2190.6 | 2231.0 | 2367.4 | 2453.6 | 2372.0 |
| 22.5° | 1830.1 | 1824.7 | 1831.6 | 1868.9 | 1936.8 | 2030.5 | 2158.6 | 2204.3 | 2369.0 | 2466.5 | 2346.9 |
| 25° | 1873.5 | 1865.9 | 1867.4 | 1887.2 | 1935.3 | 2020.6 | 2163.2 | 2211.9 | 2399.4 | 2510.0 | 2337.7 |
| 27.5° | 1946.7 | 1938.3 | 1938.3 | 1948.2 | 1974.1 | 2051.9 | 2220.3 | 2276.0 | 2481.0 | 2594.6 | 2356.8 |
| 30° | 2041.2 | 2032.8 | 2029.8 | 2039.7 | 2061.0 | 2132.7 | 2347.6 | 2405.5 | 2620.5 | 2733.3 | 2417.7 |
| 32.5° | 2149.4 | 2139.5 | 2144.9 | 2158.6 | 2179.2 | 2278.3 | 2511.5 | 2588.5 | 2795.0 | 2920.0 | 2527.5 |
| 35° | 2263.8 | 2255.4 | 2279.8 | 2309.5 | 2341.5 | 2480.2 | 2737.9 | 2804.9 | 3009.2 | 3152.5 | 2695.2 |
| 37.5° | 2372.8 | 2369.0 | 2420.0 | 2482.5 | 2548.8 | 2722.6 | 2968.1 | 3019.9 | 3192.9 | 3405.6 | 2900.2 |
| 40° | 2481.8 | 2481.0 | 2568.7 | 2678.4 | 2784.4 | 2964.3 | 3142.6 | 3185.3 | 3305.0 | 3602.2 | 3096.9 |
| 42.5° | 2603.7 | 2603.7 | 2724.9 | 2871.3 | 3012.3 | 3168.5 | 3270.7 | 3289.7 | 3355.3 | 3715.8 | 3244.7 |
| 45° | 2720.3 | 2727.2 | 2867.4 | 3037.4 | 3204.3 | 3327.8 | 3359.1 | 3360.6 | 3375.8 | 3782.9 | 3367.5 |
| 47.5° | 2812.6 | 2818.7 | 2986.4 | 3182.2 | 3362.1 | 3449.0 | 3453.6 | 3446.7 | 3430.0 | 3846.9 | 3462.0 |
| 50° | 2887.3 | 2896.4 | 3071.7 | 3279.0 | 3470.4 | 3565.6 | 3600.7 | 3593.8 | 3551.2 | 3915.5 | 3528.3 |
| 52.5° | 2923.9 | 2936.8 | 3101.4 | 3327.1 | 3590.8 | 3765.3 | 3862.9 | 3878.9 | 3732.6 | 3953.6 | 3591.6 |
| 55° | 2631.2 | 2650.2 | 2801.9 | 3110.6 | 3657.9 | 4074.0 | 4227.2 | 4224.2 | 3929.2 | 4067.2 | 3745.5 |
| 57.5° | 1987.1 | 1985.6 | 2111.3 | 2449.0 | 3124.3 | 4091.6 | 4451.3 | 4445.2 | 4112.9 | 4199.0 | 3903.3 |
| 60° | 1352.9 | 1343.8 | 1377.3 | 1540.4 | 2184.5 | 3333.2 | 4051.2 | 4133.5 | 3982.6 | 3878.9 | 3314.1 |
| 62.5° | 1113.6 | 1105.2 | 1094.5 | 1049.6 | 1254.6 | 2076.3 | 2798.8 | 2923.9 | 2904.0 | 2696.0 | 2078.6 |
| 65° | 911.6 | 918.5 | 948.2 | 929.1 | 872.7 | 1064.8 | 1452.8 | 1526.7 | 1395.6 | 1174.6 | 726.4 |
| 67.5° | 672.3 | 675.3 | 714.2 | 814.8 | 784.3 | 708.9 | 683.7 | 695.9 | 407.8 | 187.5 | 121.2 |
| 70° | 397.1 | 399.4 | 435.2 | 570.1 | 636.4 | 544.2 | 461.9 | 455.0 | 161.6 | 50.3 | 54.9 |
| 72.5° | 224.9 | 220.3 | 227.1 | 271.3 | 346.8 | 288.9 | 237.8 | 216.5 | 48.8 | 28.2 | 28.2 |
| 75° | 106.7 | 103.7 | 89.2 | 83.8 | 76.2 | 48.8 | 30.5 | 25.9 | 12.2 | 11.4 | 11.4 |
| 77.5° | 0.8 | 2.3 | 1.5 | 2.3 | 2.3 | 1.5 | 0.8 | 0.8 | 2.3 | 2.3 | 3.0 |
| 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° | 2728.0 | 2728.0 | 2728.0 | 2728.0 | 2728.0 | 2728.0 | 2728.0 | 2728.0 | 2728.0 | 2728.0 | 2728.0 |
| 2.5° | 2710.4 | 2687.6 | 2682.2 | 2680.7 | 2659.4 | 2636.5 | 2612.9 | 2603.7 | 2590.0 | 2581.6 | 2588.5 |
| 5° | 2659.4 | 2626.6 | 2597.6 | 2570.9 | 2523.7 | 2471.9 | 2426.9 | 2397.9 | 2370.5 | 2352.2 | 2356.8 |
| 7.5° | 2587.0 | 2544.3 | 2478.0 | 2410.1 | 2323.2 | 2245.5 | 2158.6 | 2105.2 | 2055.7 | 2028.3 | 2041.2 |
| 10° | 2510.0 | 2453.6 | 2347.6 | 2232.5 | 2096.1 | 1974.1 | 1849.9 | 1748.5 | 1689.8 | 1634.2 | 1640.3 |
| 12.5° | 2434.5 | 2359.8 | 2201.3 | 2026.7 | 1854.5 | 1674.6 | 1487.1 | 1346.8 | 1250.8 | 1181.4 | 1170.8 |
| 15° | 2364.4 | 2268.3 | 2058.7 | 1828.6 | 1593.8 | 1354.5 | 1115.1 | 914.7 | 803.4 | 734.8 | 730.2 |
| 17.5° | 2301.9 | 2183.0 | 1910.9 | 1621.2 | 1327.0 | 1020.6 | 745.4 | 595.3 | 531.3 | 501.5 | 498.5 |
| 20° | 2241.7 | 2096.9 | 1760.0 | 1410.9 | 1035.8 | 716.5 | 514.5 | 445.1 | 424.6 | 412.4 | 413.9 |
| 22.5° | 2183.7 | 2003.1 | 1601.4 | 1177.6 | 776.7 | 503.1 | 398.6 | 372.0 | 369.7 | 371.2 | 372.0 |
| 25° | 2135.0 | 1917.0 | 1438.3 | 952.8 | 554.1 | 383.4 | 333.1 | 325.5 | 332.3 | 342.2 | 343.8 |
| 27.5° | 2109.8 | 1846.8 | 1279.0 | 726.4 | 400.9 | 311.7 | 288.9 | 291.9 | 304.1 | 314.8 | 316.3 |
| 30° | 2116.7 | 1794.3 | 1114.4 | 526.7 | 308.7 | 263.0 | 255.3 | 261.4 | 273.6 | 283.5 | 285.1 |
| 32.5° | 2165.5 | 1767.6 | 945.9 | 383.4 | 253.8 | 229.4 | 226.4 | 231.0 | 241.6 | 249.2 | 250.0 |
| 35° | 2262.3 | 1773.7 | 785.8 | 293.5 | 218.0 | 204.3 | 203.5 | 206.6 | 211.9 | 217.2 | 218.0 |
| 37.5° | 2404.8 | 1823.2 | 628.1 | 243.9 | 197.4 | 187.5 | 184.5 | 184.5 | 188.3 | 190.6 | 192.1 |
| 40° | 2558.0 | 1897.9 | 503.1 | 215.7 | 182.9 | 172.3 | 166.2 | 163.9 | 166.9 | 170.0 | 170.7 |
| 42.5° | 2684.5 | 1972.6 | 408.5 | 195.9 | 171.5 | 157.0 | 149.4 | 147.9 | 151.7 | 157.0 | 158.5 |
| 45° | 2781.3 | 2030.5 | 340.7 | 179.9 | 158.5 | 142.5 | 134.1 | 134.1 | 141.0 | 150.2 | 151.7 |
| 47.5° | 2869.7 | 2077.0 | 290.4 | 165.4 | 146.3 | 129.6 | 121.2 | 122.7 | 134.1 | 146.3 | 148.6 |
| 50° | 2930.0 | 2114.4 | 253.1 | 152.4 | 136.4 | 118.9 | 111.3 | 114.3 | 128.1 | 142.5 | 144.8 |
| 52.5° | 2994.7 | 2160.1 | 228.7 | 141.0 | 127.3 | 110.5 | 103.7 | 105.9 | 121.2 | 137.2 | 140.2 |
| 55° | 3173.9 | 2313.3 | 227.9 | 125.8 | 111.3 | 99.1 | 96.0 | 96.8 | 112.0 | 130.3 | 134.1 |
| 57.5° | 3320.2 | 2448.2 | 243.1 | 105.9 | 93.0 | 86.9 | 85.4 | 86.1 | 99.9 | 120.4 | 125.0 |
| 60° | 2747.0 | 1902.5 | 201.2 | 87.7 | 77.7 | 76.2 | 73.9 | 75.5 | 88.4 | 106.7 | 110.5 |
| 62.5° | 1625.8 | 1087.7 | 96.0 | 67.1 | 66.3 | 64.8 | 62.5 | 65.6 | 77.7 | 93.8 | 96.0 |
| 65° | 555.7 | 322.4 | 61.0 | 54.9 | 56.4 | 54.1 | 51.8 | 54.9 | 65.6 | 74.7 | 75.5 |
| 67.5° | 106.7 | 85.4 | 48.8 | 45.7 | 46.5 | 41.9 | 41.2 | 44.2 | 50.3 | 51.8 | 51.1 |
| 70° | 55.6 | 49.5 | 37.3 | 37.3 | 35.8 | 29.7 | 29.7 | 32.8 | 32.8 | 30.5 | 29.7 |
| 72.5° | 29.0 | 27.4 | 24.4 | 27.4 | 22.9 | 18.3 | 18.3 | 19.8 | 18.3 | 15.2 | 15.2 |
| 75° | 11.4 | 11.4 | 10.7 | 13.7 | 9.9 | 8.4 | 7.6 | 9.1 | 6.9 | 5.3 | 5.3 |
| 77.5° | 3.0 | 3.0 | 3.0 | 3.8 | 2.3 | 2.3 | 1.5 | 1.5 | 0.8 | 0.0 | 0.0 |
| 80° | 0.0 | 0.8 | 0.0 | 0.8 | 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)