

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: P632804

Luminaire Tested: GWS-SA2D-740-U-SL2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632804
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-28)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2D-740-U-SL2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6856.1 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

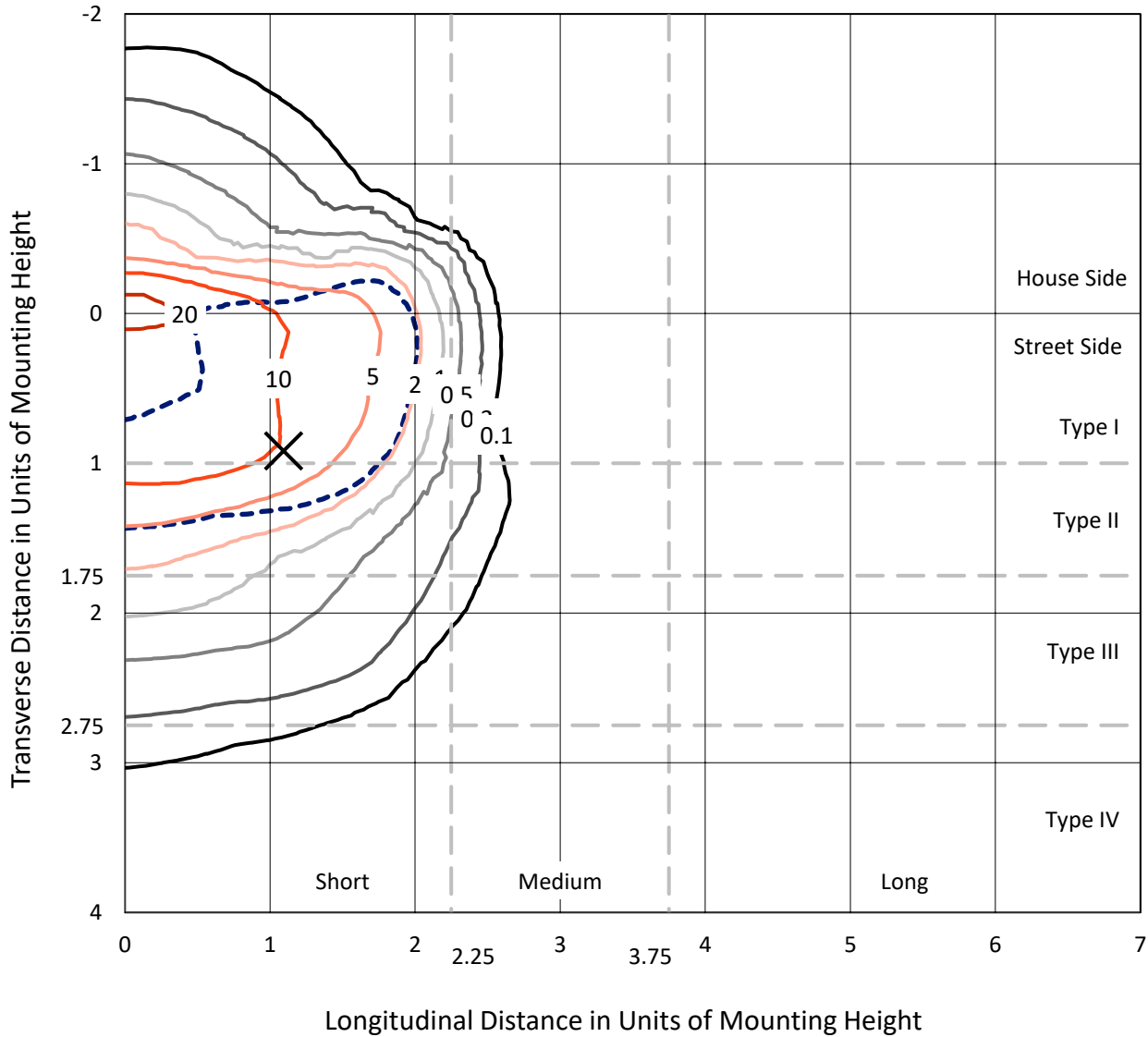
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

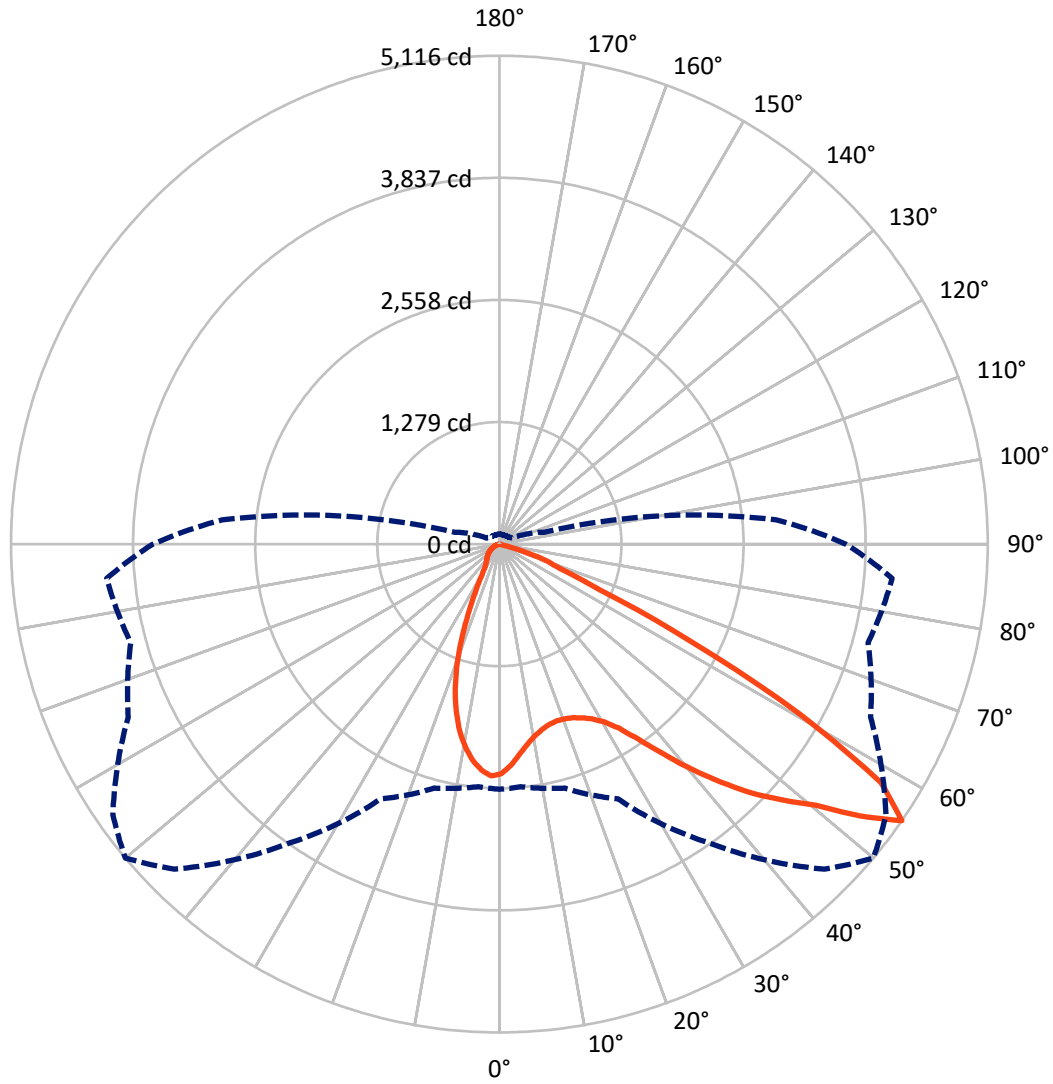
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 24.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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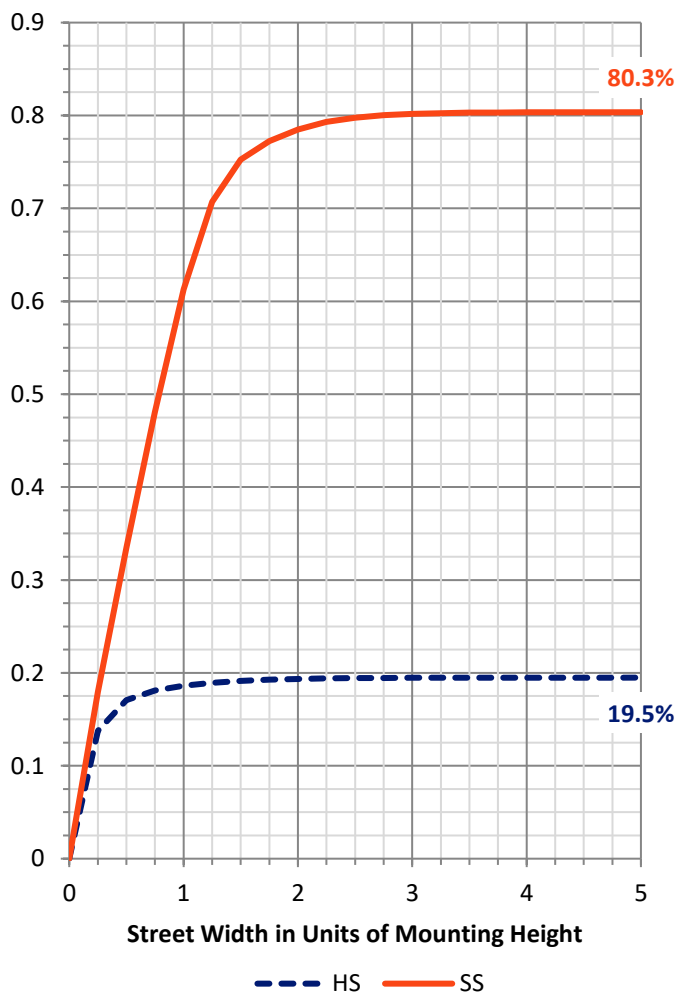
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1351.0 | 0.0 | 1351.0 |
| | % Fixture | 19.7 | 0.0 | 19.7 |
| Street Side | Lumens | 5505.1 | 0.0 | 5505.1 |
| | % Fixture | 80.3 | 0.0 | 80.3 |
| Total | Lumens | 6856.1 | 0.0 | 6856.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 211.3 | 3.1 |
| 10°-20° | 519.9 | 7.6 |
| 20°-30° | 733.3 | 10.7 |
| 30°-40° | 1085.1 | 15.8 |
| 40°-50° | 1565.5 | 22.8 |
| 50°-60° | 1846.6 | 26.9 |
| 60°-70° | 823.7 | 12.0 |
| 70°-80° | 70.8 | 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° | 6856.1 | 100.0 |
| 0°-180° | 6856.1 | 100.0 |

Coefficient of Utilization



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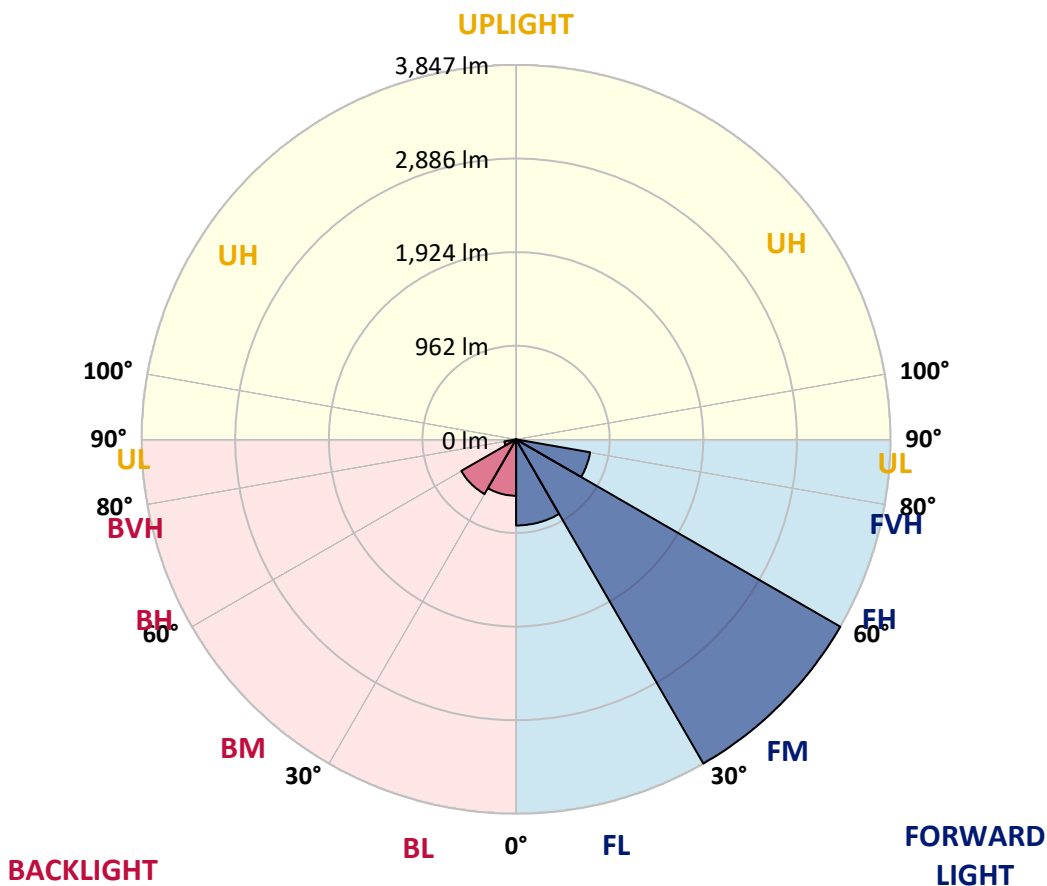
CATALOG NUMBER: GWS-SA2D-740-U-SL2-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 885.1 | 12.9 | | | |
| FM (30°-60°) | 3847.4 | 56.1 | | | |
| FH (60°-80°) | 772.6 | 11.3 | | | G1/1800 |
| FVH (80°-90°) | 0.0 | 0.0 | | | G0/10 |
| BL (0°-30°) | 579.2 | 8.4 | B2/1000 | | |
| BM (30°-60°) | 649.7 | 9.5 | B1/1000 | | |
| BH (60°-80°) | 122.0 | 1.8 | B1/500 | | G1/500 |
| 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: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 50° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2405.5 | 2405.5 | 2405.5 | 2405.5 | 2405.5 | 2405.5 | 2405.5 | 2405.5 | 2405.5 | 2405.5 | 2405.5 |
| 2.5° | 2234.8 | 2236.4 | 2237.3 | 2259.9 | 2268.2 | 2301.7 | 2319.3 | 2328.5 | 2352.8 | 2381.2 | 2404.7 |
| 5° | 2084.9 | 2082.4 | 2086.6 | 2115.1 | 2133.5 | 2182.9 | 2209.6 | 2228.1 | 2281.6 | 2348.6 | 2404.7 |
| 7.5° | 1954.4 | 1959.4 | 1964.4 | 1995.4 | 2023.0 | 2076.6 | 2115.1 | 2142.7 | 2217.2 | 2316.8 | 2411.4 |
| 10° | 1862.3 | 1862.3 | 1869.8 | 1905.0 | 1937.6 | 2003.7 | 2042.2 | 2077.4 | 2166.1 | 2288.3 | 2418.9 |
| 12.5° | 1794.5 | 1795.3 | 1804.5 | 1844.7 | 1882.4 | 1951.0 | 1991.2 | 2025.5 | 2123.4 | 2259.9 | 2420.6 |
| 15° | 1762.7 | 1760.2 | 1767.7 | 1810.4 | 1852.3 | 1916.7 | 1958.5 | 1992.0 | 2093.3 | 2244.0 | 2428.9 |
| 17.5° | 1754.3 | 1752.7 | 1758.5 | 1800.4 | 1843.0 | 1905.8 | 1946.8 | 1980.3 | 2089.1 | 2249.0 | 2454.0 |
| 20° | 1778.6 | 1775.2 | 1772.7 | 1808.7 | 1848.9 | 1910.8 | 1953.5 | 1991.2 | 2109.2 | 2276.6 | 2492.5 |
| 22.5° | 1836.3 | 1836.3 | 1830.5 | 1848.1 | 1874.9 | 1930.9 | 1975.3 | 2024.7 | 2161.9 | 2331.8 | 2549.5 |
| 25° | 1942.6 | 1934.3 | 1923.4 | 1930.9 | 1927.6 | 1962.7 | 2015.5 | 2084.1 | 2261.5 | 2423.1 | 2618.9 |
| 27.5° | 2064.0 | 2071.5 | 2053.1 | 2054.0 | 2024.7 | 2012.1 | 2073.2 | 2177.0 | 2409.7 | 2552.0 | 2721.9 |
| 30° | 2228.9 | 2223.0 | 2223.9 | 2221.4 | 2153.6 | 2094.1 | 2160.3 | 2298.4 | 2596.3 | 2748.7 | 2855.8 |
| 32.5° | 2357.8 | 2366.2 | 2393.8 | 2409.7 | 2321.0 | 2225.5 | 2295.9 | 2463.3 | 2808.9 | 2973.0 | 3019.8 |
| 35° | 2494.2 | 2509.3 | 2565.4 | 2617.3 | 2542.8 | 2433.1 | 2508.5 | 2681.7 | 3009.0 | 3194.8 | 3208.2 |
| 37.5° | 2638.2 | 2668.3 | 2735.3 | 2826.5 | 2814.8 | 2717.7 | 2786.3 | 2938.7 | 3166.3 | 3328.7 | 3363.9 |
| 40° | 2803.1 | 2832.4 | 2942.0 | 3073.4 | 3101.0 | 3079.3 | 3101.9 | 3190.6 | 3270.1 | 3334.6 | 3430.8 |
| 42.5° | 2983.9 | 3024.0 | 3163.0 | 3338.7 | 3442.5 | 3461.8 | 3409.0 | 3399.8 | 3315.3 | 3267.6 | 3416.6 |
| 45° | 3197.3 | 3244.2 | 3401.5 | 3629.2 | 3794.1 | 3820.0 | 3728.8 | 3610.8 | 3343.8 | 3218.2 | 3373.9 |
| 47.5° | 3436.7 | 3481.0 | 3637.5 | 3911.2 | 4156.5 | 4166.5 | 4007.5 | 3817.5 | 3428.3 | 3275.1 | 3406.5 |
| 50° | 3517.0 | 3544.6 | 3680.2 | 4001.6 | 4453.6 | 4530.6 | 4300.4 | 4050.2 | 3598.2 | 3442.5 | 3565.6 |
| 52.5° | 3240.8 | 3251.7 | 3369.7 | 3694.5 | 4393.3 | 4888.0 | 4728.1 | 4397.5 | 3900.4 | 3697.8 | 3810.8 |
| 55° | 2567.9 | 2550.3 | 2645.7 | 2943.7 | 3818.3 | 4815.2 | 5115.7 | 4943.2 | 4289.6 | 3997.5 | 4129.7 |
| 57.5° | 1796.2 | 1775.2 | 1753.5 | 1955.2 | 2849.1 | 4082.0 | 4713.9 | 5019.4 | 4660.3 | 4294.6 | 4473.7 |
| 60° | 1476.4 | 1456.4 | 1350.9 | 1258.0 | 1722.5 | 2931.1 | 3620.8 | 4195.8 | 4630.2 | 4279.5 | 4462.8 |
| 62.5° | 1275.6 | 1263.9 | 1221.2 | 1094.8 | 1013.6 | 1673.1 | 2267.4 | 2818.1 | 3553.0 | 3360.5 | 3370.5 |
| 65° | 1001.9 | 998.5 | 1027.8 | 1041.2 | 896.4 | 925.7 | 1156.7 | 1464.7 | 1920.9 | 1811.2 | 1717.5 |
| 67.5° | 684.7 | 677.1 | 732.4 | 900.6 | 862.1 | 730.7 | 677.1 | 683.0 | 831.1 | 508.1 | 403.4 |
| 70° | 435.2 | 417.7 | 418.5 | 558.3 | 701.4 | 576.7 | 522.3 | 459.5 | 413.5 | 75.3 | 85.4 |
| 72.5° | 278.7 | 267.8 | 230.2 | 251.9 | 324.8 | 281.2 | 283.7 | 244.4 | 163.2 | 40.2 | 46.9 |
| 75° | 117.2 | 108.0 | 82.9 | 66.1 | 65.3 | 41.0 | 36.0 | 33.5 | 22.6 | 22.6 | 24.3 |
| 77.5° | 0.8 | 0.0 | 0.0 | 0.8 | 1.7 | 0.8 | 0.8 | 1.7 | 3.3 | 5.0 | 5.9 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 |
| 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° | 2405.5 | 2405.5 | 2405.5 | 2405.5 | 2405.5 | 2405.5 | 2405.5 | 2405.5 | 2405.5 | 2405.5 | 2405.5 |
| 2.5° | 2418.9 | 2398.8 | 2421.4 | 2429.8 | 2428.9 | 2429.8 | 2405.5 | 2388.8 | 2387.9 | 2367.0 | 2357.0 |
| 5° | 2428.1 | 2412.2 | 2428.9 | 2418.1 | 2392.1 | 2359.5 | 2315.9 | 2278.3 | 2261.5 | 2237.3 | 2225.5 |
| 7.5° | 2445.7 | 2428.9 | 2426.4 | 2382.9 | 2318.5 | 2249.8 | 2172.8 | 2104.2 | 2067.4 | 2023.0 | 2025.5 |
| 10° | 2458.2 | 2439.0 | 2406.3 | 2317.6 | 2210.5 | 2100.8 | 1986.2 | 1884.1 | 1819.6 | 1760.2 | 1750.1 |
| 12.5° | 2463.3 | 2434.8 | 2358.6 | 2224.7 | 2074.1 | 1930.9 | 1762.7 | 1617.1 | 1516.6 | 1438.8 | 1427.9 |
| 15° | 2472.5 | 2426.4 | 2297.5 | 2112.6 | 1905.8 | 1703.3 | 1489.0 | 1289.8 | 1156.7 | 1067.2 | 1074.7 |
| 17.5° | 2486.7 | 2417.2 | 2228.9 | 1987.0 | 1725.0 | 1438.8 | 1149.2 | 920.7 | 798.5 | 746.6 | 747.4 |
| 20° | 2506.8 | 2406.3 | 2153.6 | 1848.9 | 1508.3 | 1140.0 | 803.5 | 631.1 | 596.8 | 595.1 | 592.6 |
| 22.5° | 2533.6 | 2395.5 | 2073.2 | 1697.4 | 1251.3 | 798.5 | 534.8 | 481.3 | 495.5 | 523.1 | 528.1 |
| 25° | 2565.4 | 2382.1 | 1983.7 | 1526.7 | 970.9 | 524.0 | 400.9 | 392.5 | 426.9 | 463.7 | 472.1 |
| 27.5° | 2614.7 | 2375.4 | 1881.5 | 1332.5 | 681.3 | 375.8 | 328.1 | 333.1 | 364.1 | 395.1 | 402.6 |
| 30° | 2698.4 | 2387.9 | 1770.2 | 1114.9 | 437.7 | 299.6 | 284.6 | 292.1 | 308.8 | 324.8 | 331.4 |
| 32.5° | 2812.3 | 2424.8 | 1662.3 | 877.2 | 312.2 | 260.3 | 257.0 | 261.1 | 267.8 | 277.0 | 279.6 |
| 35° | 2945.4 | 2488.4 | 1550.9 | 627.7 | 257.8 | 237.7 | 234.4 | 234.4 | 237.7 | 239.4 | 240.2 |
| 37.5° | 3055.0 | 2555.3 | 1446.3 | 417.7 | 231.0 | 220.1 | 215.1 | 212.6 | 211.8 | 213.4 | 214.3 |
| 40° | 3102.7 | 2582.9 | 1332.5 | 303.8 | 211.8 | 204.2 | 196.7 | 189.2 | 189.2 | 195.0 | 195.9 |
| 42.5° | 3069.2 | 2552.0 | 1201.1 | 251.1 | 198.4 | 187.5 | 175.8 | 169.1 | 172.4 | 178.3 | 180.0 |
| 45° | 2998.1 | 2475.8 | 1056.3 | 221.8 | 185.0 | 170.7 | 157.4 | 153.2 | 156.5 | 164.0 | 165.7 |
| 47.5° | 2986.4 | 2425.6 | 883.0 | 202.6 | 170.7 | 156.5 | 142.3 | 138.1 | 142.3 | 148.1 | 149.8 |
| 50° | 3102.7 | 2469.1 | 690.5 | 185.8 | 157.4 | 141.5 | 129.7 | 125.5 | 128.1 | 131.4 | 133.1 |
| 52.5° | 3315.3 | 2630.7 | 557.4 | 169.9 | 141.5 | 126.4 | 118.9 | 113.8 | 113.8 | 117.2 | 118.0 |
| 55° | 3629.2 | 2912.7 | 481.3 | 151.5 | 123.0 | 114.7 | 108.0 | 102.9 | 102.9 | 104.6 | 105.5 |
| 57.5° | 3990.8 | 3254.2 | 498.8 | 127.2 | 108.0 | 103.8 | 97.9 | 93.7 | 95.4 | 95.4 | 95.4 |
| 60° | 3940.5 | 3229.1 | 534.0 | 107.1 | 95.4 | 93.7 | 88.7 | 87.0 | 91.2 | 87.9 | 86.2 |
| 62.5° | 2902.7 | 2230.6 | 279.6 | 87.9 | 82.0 | 80.4 | 77.0 | 80.4 | 86.2 | 77.0 | 73.7 |
| 65° | 1409.5 | 1079.7 | 112.2 | 72.0 | 69.5 | 67.8 | 66.1 | 71.1 | 74.5 | 60.3 | 56.9 |
| 67.5° | 331.4 | 269.5 | 72.8 | 61.1 | 57.8 | 54.4 | 56.1 | 56.9 | 54.4 | 41.0 | 39.3 |
| 70° | 86.2 | 84.5 | 56.9 | 51.1 | 46.0 | 42.7 | 42.7 | 41.8 | 36.0 | 25.9 | 24.3 |
| 72.5° | 46.9 | 46.0 | 41.0 | 38.5 | 31.8 | 28.5 | 29.3 | 25.9 | 20.1 | 15.1 | 14.2 |
| 75° | 23.4 | 25.1 | 23.4 | 21.8 | 17.6 | 15.9 | 15.9 | 14.2 | 10.0 | 5.9 | 5.9 |
| 77.5° | 5.0 | 5.9 | 5.9 | 5.0 | 4.2 | 3.3 | 3.3 | 4.2 | 1.7 | 0.0 | 0.0 |
| 80° | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 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)