

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: P632247

Luminaire Tested: GWS-SA2C-735-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632247
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2C-735-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6875 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

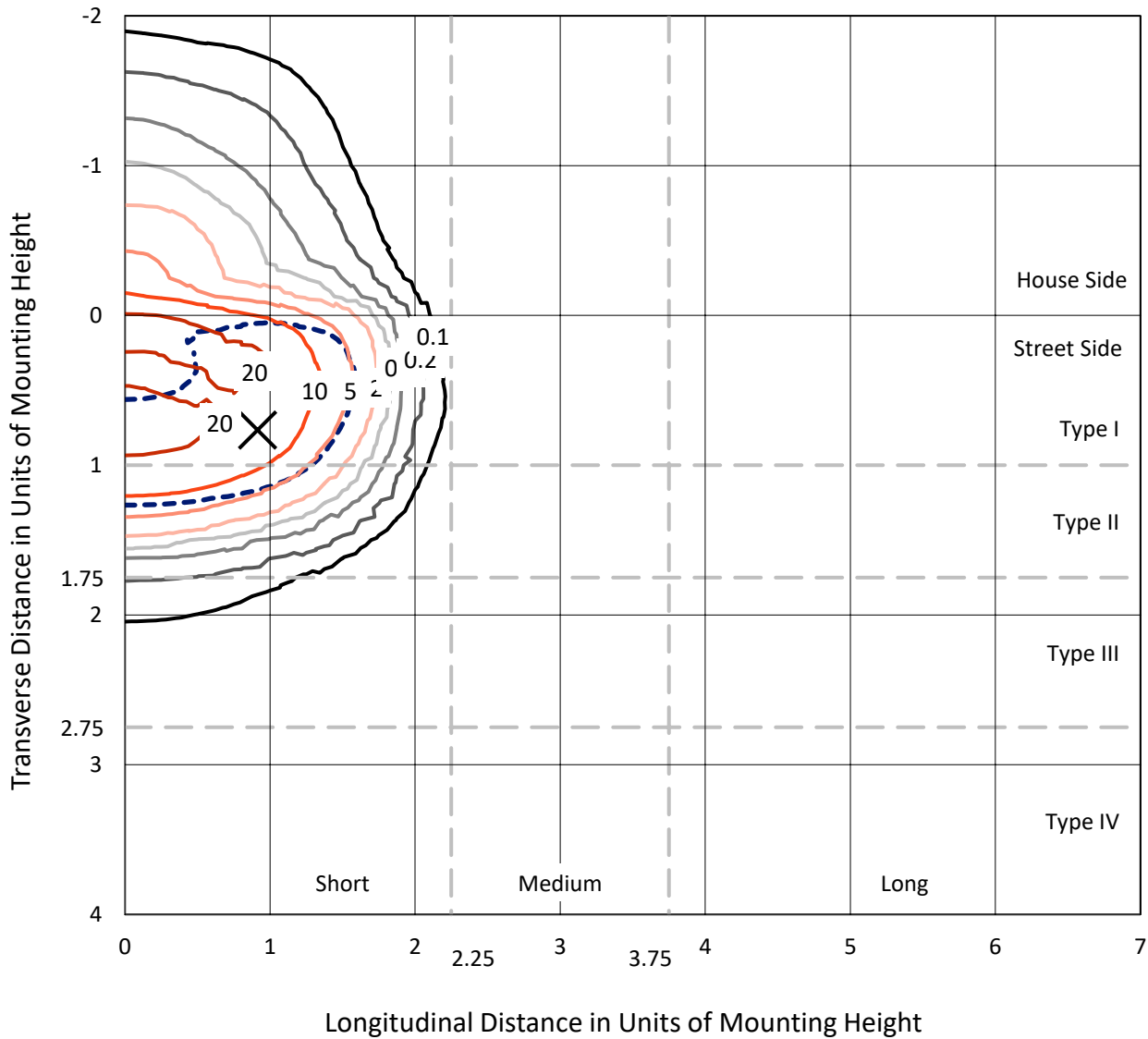
Input Watts (W): 63.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

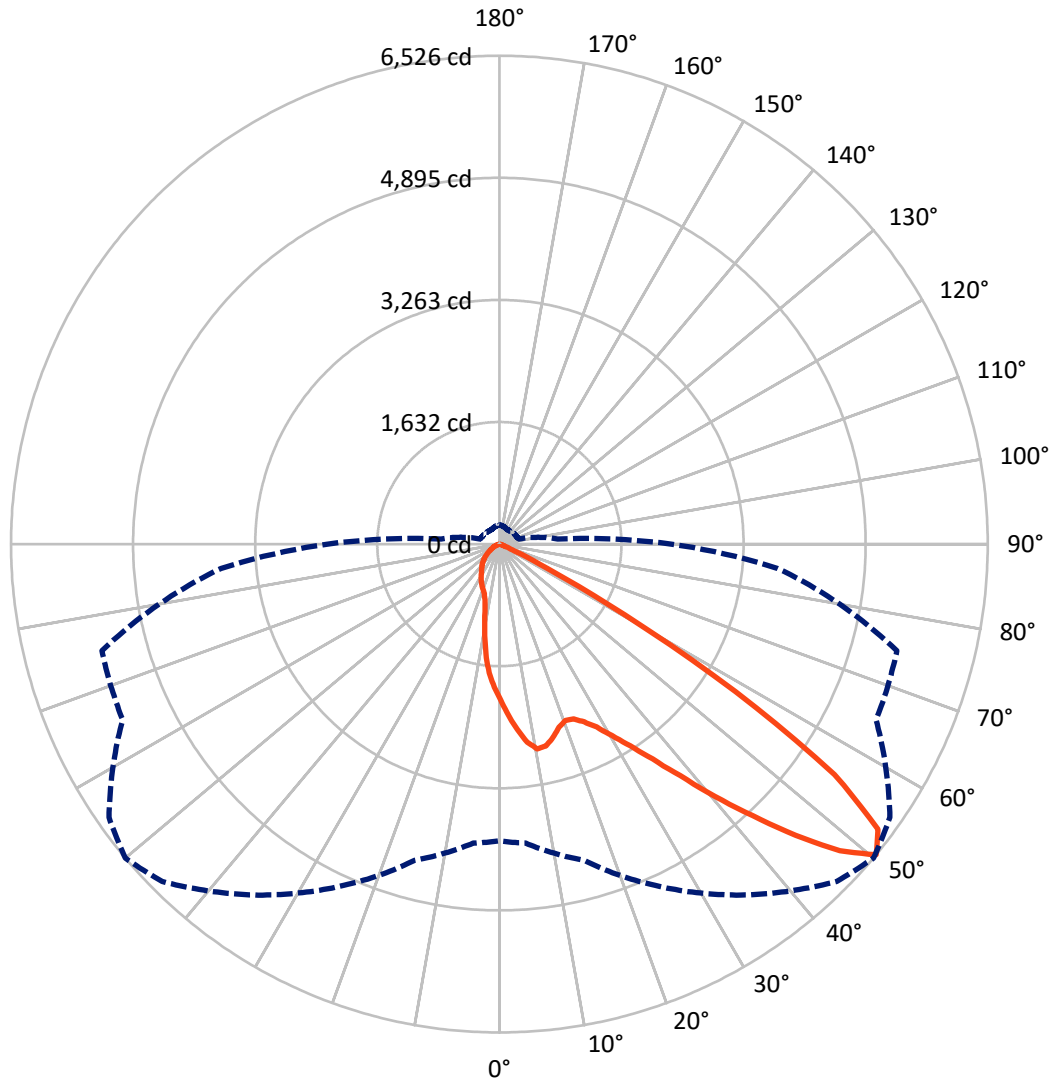
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 26.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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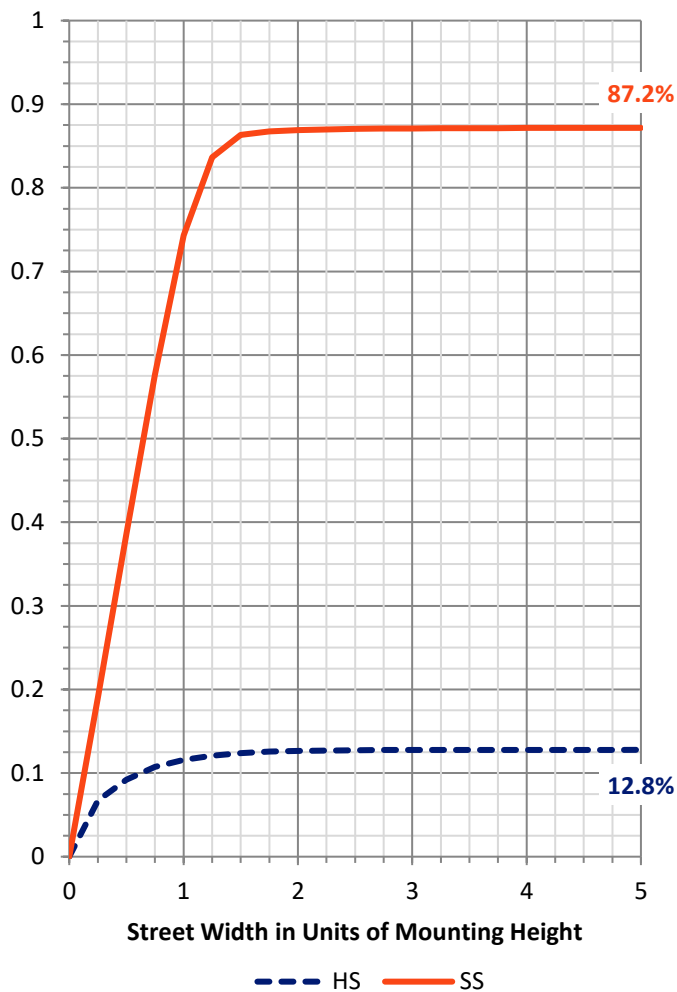
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 883.3 | 0.0 | 883.3 |
| | % Fixture | 12.8 | 0.0 | 12.8 |
| Street Side | Lumens | 5991.7 | 0.0 | 5991.7 |
| | % Fixture | 87.2 | 0.0 | 87.2 |
| Total | Lumens | 6875.0 | 0.0 | 6875.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 193.2 | 2.8 |
| 10°-20° | 498.5 | 7.3 |
| 20°-30° | 822.7 | 12.0 |
| 30°-40° | 1357.7 | 19.7 |
| 40°-50° | 2148.1 | 31.2 |
| 50°-60° | 1626.4 | 23.7 |
| 60°-70° | 203.6 | 3.0 |
| 70°-80° | 23.0 | 0.3 |
| 80°-90° | 1.8 | 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° | 6875.0 | 100.0 |
| 0°-180° | 6875.0 | 100.0 |

Coefficient of Utilization



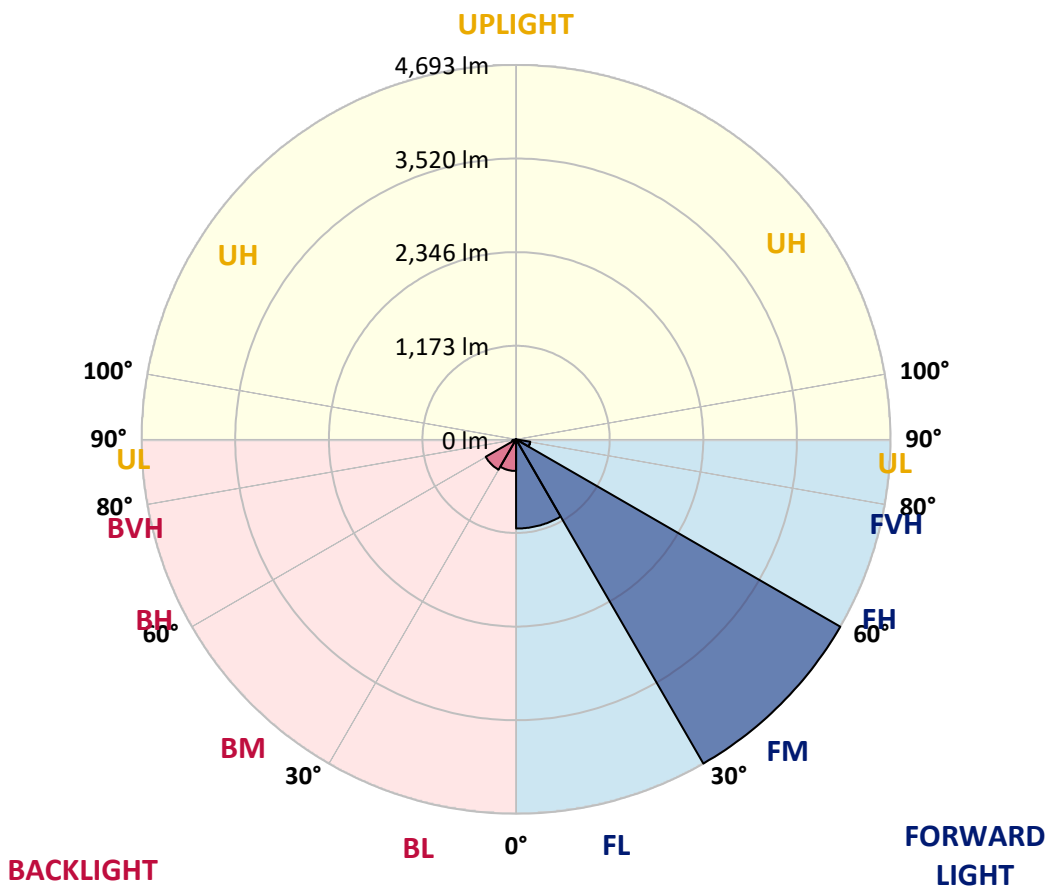
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1118.0 | 16.3 | | | |
| FM (30°-60°) | 4692.9 | 68.3 | | | |
| FH (60°-80°) | 180.0 | 2.6 | | | G0/660 |
| FVH (80°-90°) | 0.8 | 0.0 | | | G0/10 |
| BL (0°-30°) | 396.5 | 5.8 | B1/500 | | |
| BM (30°-60°) | 439.3 | 6.4 | B1/1000 | | |
| BH (60°-80°) | 46.6 | 0.7 | B0/110 | | G0/110 |
| 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: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 50° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2082.9 | 2082.9 | 2082.9 | 2082.9 | 2082.9 | 2082.9 | 2082.9 | 2082.9 | 2082.9 | 2082.9 | 2082.9 |
| 2.5° | 2373.4 | 2392.4 | 2387.1 | 2362.3 | 2335.4 | 2316.5 | 2287.0 | 2277.9 | 2211.1 | 2164.6 | 2115.6 |
| 5° | 2660.0 | 2665.9 | 2659.3 | 2629.2 | 2582.1 | 2537.0 | 2488.6 | 2460.4 | 2348.5 | 2247.8 | 2145.0 |
| 7.5° | 2728.7 | 2721.5 | 2733.9 | 2749.0 | 2742.5 | 2722.8 | 2671.8 | 2641.0 | 2507.5 | 2343.3 | 2187.6 |
| 10° | 2514.1 | 2497.7 | 2544.2 | 2622.1 | 2703.8 | 2796.1 | 2783.0 | 2785.6 | 2662.6 | 2463.7 | 2243.2 |
| 12.5° | 2229.4 | 2222.9 | 2257.6 | 2347.9 | 2508.2 | 2717.6 | 2768.0 | 2852.4 | 2804.6 | 2593.9 | 2306.6 |
| 15° | 2104.4 | 2107.7 | 2128.7 | 2185.6 | 2300.8 | 2561.2 | 2682.3 | 2834.7 | 2931.6 | 2720.2 | 2376.7 |
| 17.5° | 2123.4 | 2135.2 | 2134.5 | 2153.5 | 2223.5 | 2432.3 | 2573.6 | 2779.1 | 3029.7 | 2865.5 | 2457.1 |
| 20° | 2252.3 | 2264.1 | 2246.4 | 2232.0 | 2255.6 | 2399.6 | 2516.7 | 2722.8 | 3095.8 | 3012.1 | 2542.2 |
| 22.5° | 2445.4 | 2459.1 | 2417.2 | 2376.0 | 2361.0 | 2453.2 | 2538.3 | 2699.9 | 3146.2 | 3146.2 | 2618.1 |
| 25° | 2679.0 | 2698.0 | 2633.2 | 2559.9 | 2518.0 | 2566.4 | 2630.6 | 2751.6 | 3197.9 | 3266.6 | 2669.8 |
| 27.5° | 2940.1 | 2940.7 | 2885.1 | 2802.7 | 2724.1 | 2730.0 | 2768.6 | 2868.1 | 3254.8 | 3396.2 | 2710.4 |
| 30° | 3233.9 | 3235.8 | 3161.9 | 3063.1 | 2964.3 | 2937.5 | 2970.2 | 3045.4 | 3373.3 | 3559.1 | 2766.7 |
| 32.5° | 3613.4 | 3622.6 | 3516.6 | 3371.3 | 3243.0 | 3192.7 | 3211.6 | 3290.8 | 3561.7 | 3763.3 | 2851.1 |
| 35° | 4126.4 | 4136.3 | 3979.9 | 3788.1 | 3584.0 | 3508.1 | 3527.0 | 3606.9 | 3834.6 | 4053.2 | 2985.9 |
| 37.5° | 4632.9 | 4646.0 | 4487.7 | 4309.0 | 4028.9 | 3903.3 | 3922.9 | 3998.8 | 4244.2 | 4453.6 | 3201.8 |
| 40° | 4983.0 | 5000.7 | 4951.6 | 4831.2 | 4571.4 | 4406.5 | 4430.1 | 4457.6 | 4695.1 | 4932.6 | 3481.9 |
| 42.5° | 5167.5 | 5192.4 | 5213.3 | 5274.9 | 5138.1 | 5000.0 | 4960.1 | 4962.1 | 5153.8 | 5420.8 | 3773.1 |
| 45° | 5178.7 | 5202.9 | 5310.2 | 5547.7 | 5651.8 | 5623.0 | 5550.3 | 5501.3 | 5503.9 | 5746.0 | 3955.0 |
| 47.5° | 4818.8 | 4863.9 | 5064.8 | 5530.1 | 5921.4 | 6160.2 | 6123.6 | 6007.1 | 5651.1 | 5767.6 | 3935.4 |
| 50° | 3966.1 | 4010.6 | 4375.8 | 5045.2 | 5725.1 | 6374.8 | 6526.0 | 6369.6 | 5554.9 | 5498.6 | 3733.2 |
| 52.5° | 2880.5 | 2885.1 | 3122.0 | 3904.0 | 4929.4 | 5979.0 | 6334.9 | 6319.9 | 5408.3 | 5172.8 | 3457.0 |
| 55° | 1368.3 | 1351.9 | 1618.3 | 2203.3 | 3409.3 | 4835.8 | 5435.8 | 5606.0 | 5200.3 | 4937.2 | 3243.0 |
| 57.5° | 398.5 | 406.4 | 524.8 | 859.8 | 1705.3 | 3090.6 | 3722.7 | 4039.4 | 4268.4 | 4059.0 | 2515.4 |
| 60° | 178.6 | 179.3 | 199.6 | 261.7 | 568.0 | 1437.6 | 1924.5 | 2316.5 | 2552.0 | 2364.9 | 1247.9 |
| 62.5° | 129.6 | 130.2 | 138.1 | 147.9 | 193.0 | 486.8 | 721.8 | 961.9 | 979.6 | 641.3 | 316.1 |
| 65° | 108.0 | 108.0 | 109.3 | 109.3 | 115.8 | 174.1 | 219.2 | 282.7 | 238.2 | 176.7 | 123.7 |
| 67.5° | 87.0 | 87.7 | 89.0 | 89.0 | 87.0 | 87.0 | 94.2 | 103.4 | 110.6 | 136.8 | 113.9 |
| 70° | 68.1 | 67.4 | 67.4 | 68.1 | 66.1 | 56.3 | 60.9 | 69.4 | 75.9 | 106.7 | 98.8 |
| 72.5° | 53.0 | 53.7 | 53.0 | 50.4 | 45.8 | 33.4 | 36.0 | 45.2 | 48.4 | 66.7 | 66.7 |
| 75° | 39.9 | 40.6 | 38.0 | 28.8 | 19.0 | 10.5 | 13.7 | 22.2 | 28.1 | 32.7 | 24.2 |
| 77.5° | 5.2 | 5.2 | 3.9 | 3.9 | 3.3 | 3.9 | 3.9 | 5.2 | 7.9 | 7.9 | 5.9 |
| 80° | 0.7 | 0.7 | 0.7 | 1.3 | 2.0 | 2.6 | 2.6 | 2.6 | 2.6 | 3.3 | 3.3 |
| 82.5° | 0.7 | 0.7 | 0.7 | 0.7 | 2.0 | 2.0 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 |
| 85° | 0.0 | 0.0 | 0.0 | 0.7 | 1.3 | 2.0 | 2.0 | 2.6 | 2.6 | 2.6 | 2.6 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.7 | 1.3 | 2.0 | 2.0 | 2.0 | 2.6 | 2.6 | 2.6 |
| 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° | 2082.9 | 2082.9 | 2082.9 | 2082.9 | 2082.9 | 2082.9 | 2082.9 | 2082.9 | 2082.9 | 2082.9 | 2082.9 |
| 2.5° | 2086.1 | 2048.2 | 2002.4 | 1971.0 | 1926.5 | 1897.0 | 1855.1 | 1827.0 | 1802.8 | 1783.8 | 1794.3 |
| 5° | 2086.8 | 2026.6 | 1933.0 | 1853.2 | 1766.1 | 1686.3 | 1600.6 | 1533.2 | 1472.3 | 1444.8 | 1459.9 |
| 7.5° | 2099.9 | 2013.5 | 1870.2 | 1728.2 | 1561.3 | 1396.4 | 1242.0 | 1116.4 | 1054.2 | 1024.7 | 1033.9 |
| 10° | 2125.4 | 2007.6 | 1800.2 | 1564.6 | 1293.7 | 1068.6 | 918.7 | 833.7 | 799.0 | 780.7 | 783.9 |
| 12.5° | 2148.9 | 2003.7 | 1709.2 | 1349.3 | 1020.8 | 829.1 | 751.2 | 739.4 | 746.6 | 747.3 | 746.6 |
| 15° | 2181.0 | 1996.5 | 1596.7 | 1128.1 | 816.7 | 716.5 | 718.5 | 735.5 | 752.5 | 757.8 | 756.4 |
| 17.5° | 2215.0 | 1985.4 | 1451.4 | 916.1 | 693.0 | 683.8 | 706.7 | 729.6 | 746.6 | 749.3 | 749.9 |
| 20° | 2250.4 | 1962.4 | 1285.8 | 747.9 | 635.4 | 658.9 | 684.5 | 701.5 | 713.9 | 717.8 | 719.1 |
| 22.5° | 2266.7 | 1914.0 | 1094.8 | 627.5 | 596.8 | 628.2 | 647.2 | 669.4 | 673.3 | 658.9 | 661.6 |
| 25° | 2258.2 | 1832.2 | 908.3 | 546.4 | 558.2 | 589.6 | 617.7 | 606.6 | 590.2 | 579.8 | 583.0 |
| 27.5° | 2231.4 | 1723.6 | 725.7 | 486.8 | 517.0 | 556.9 | 560.1 | 547.7 | 545.1 | 536.6 | 539.2 |
| 30° | 2202.6 | 1598.6 | 583.7 | 439.1 | 475.1 | 517.0 | 507.1 | 511.7 | 512.4 | 502.6 | 505.8 |
| 32.5° | 2184.9 | 1467.7 | 464.6 | 407.0 | 448.2 | 456.1 | 475.7 | 484.9 | 485.5 | 462.6 | 466.6 |
| 35° | 2190.8 | 1338.8 | 393.3 | 380.8 | 423.4 | 421.4 | 448.9 | 454.1 | 416.2 | 384.8 | 388.0 |
| 37.5° | 2238.6 | 1219.7 | 352.7 | 360.6 | 380.2 | 395.2 | 416.2 | 381.5 | 373.0 | 358.6 | 360.6 |
| 40° | 2327.6 | 1118.3 | 328.5 | 348.1 | 350.7 | 375.0 | 342.9 | 347.5 | 348.1 | 339.0 | 340.9 |
| 42.5° | 2431.6 | 1033.9 | 314.1 | 340.9 | 334.4 | 338.3 | 306.2 | 315.4 | 325.2 | 321.3 | 321.9 |
| 45° | 2484.0 | 951.5 | 301.7 | 316.1 | 318.0 | 280.7 | 273.5 | 283.3 | 295.8 | 297.7 | 298.4 |
| 47.5° | 2437.5 | 872.9 | 288.6 | 280.1 | 293.2 | 255.9 | 247.4 | 250.6 | 265.0 | 272.9 | 274.2 |
| 50° | 2295.5 | 782.6 | 268.9 | 248.0 | 240.8 | 229.7 | 221.8 | 222.5 | 238.8 | 252.6 | 255.2 |
| 52.5° | 2095.9 | 688.4 | 236.9 | 210.1 | 193.7 | 202.2 | 204.2 | 200.2 | 215.3 | 229.0 | 231.6 |
| 55° | 1902.2 | 570.6 | 187.8 | 170.8 | 155.7 | 174.1 | 179.3 | 174.1 | 178.6 | 187.8 | 188.5 |
| 57.5° | 1339.5 | 322.6 | 144.0 | 141.3 | 128.9 | 149.2 | 157.7 | 149.9 | 142.0 | 147.9 | 149.2 |
| 60° | 621.0 | 168.8 | 110.6 | 110.6 | 107.3 | 128.3 | 142.7 | 131.5 | 116.5 | 119.1 | 121.1 |
| 62.5° | 194.3 | 106.7 | 81.1 | 76.6 | 87.7 | 109.3 | 121.1 | 109.9 | 92.3 | 92.3 | 94.9 |
| 65° | 109.9 | 91.6 | 64.1 | 58.9 | 71.3 | 87.7 | 94.9 | 83.1 | 67.4 | 66.1 | 66.1 |
| 67.5° | 102.1 | 87.0 | 56.9 | 47.8 | 50.4 | 56.3 | 58.9 | 51.0 | 46.5 | 45.8 | 46.5 |
| 70° | 84.4 | 72.6 | 45.8 | 32.7 | 30.8 | 30.1 | 31.4 | 29.4 | 28.1 | 28.8 | 30.8 |
| 72.5° | 52.3 | 43.8 | 28.8 | 19.6 | 17.0 | 16.4 | 16.4 | 16.4 | 15.7 | 15.7 | 15.7 |
| 75° | 19.0 | 16.4 | 13.1 | 9.8 | 8.5 | 7.9 | 7.9 | 8.5 | 7.9 | 7.2 | 6.5 |
| 77.5° | 5.9 | 5.2 | 5.2 | 5.2 | 4.6 | 3.9 | 3.3 | 3.3 | 2.6 | 2.0 | 2.0 |
| 80° | 3.3 | 3.3 | 3.3 | 3.3 | 2.6 | 2.6 | 2.0 | 1.3 | 0.7 | 0.7 | 0.0 |
| 82.5° | 3.3 | 3.3 | 3.3 | 2.6 | 2.6 | 2.6 | 2.0 | 1.3 | 0.7 | 0.0 | 0.0 |
| 85° | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.0 | 1.3 | 0.7 | 0.0 | 0.0 |
| 87.5° | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.0 | 1.3 | 0.7 | 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)