

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: P630242

Luminaire Tested: GWS-SA1D-730-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630242
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-SA1D-730-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (16) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3701.5 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

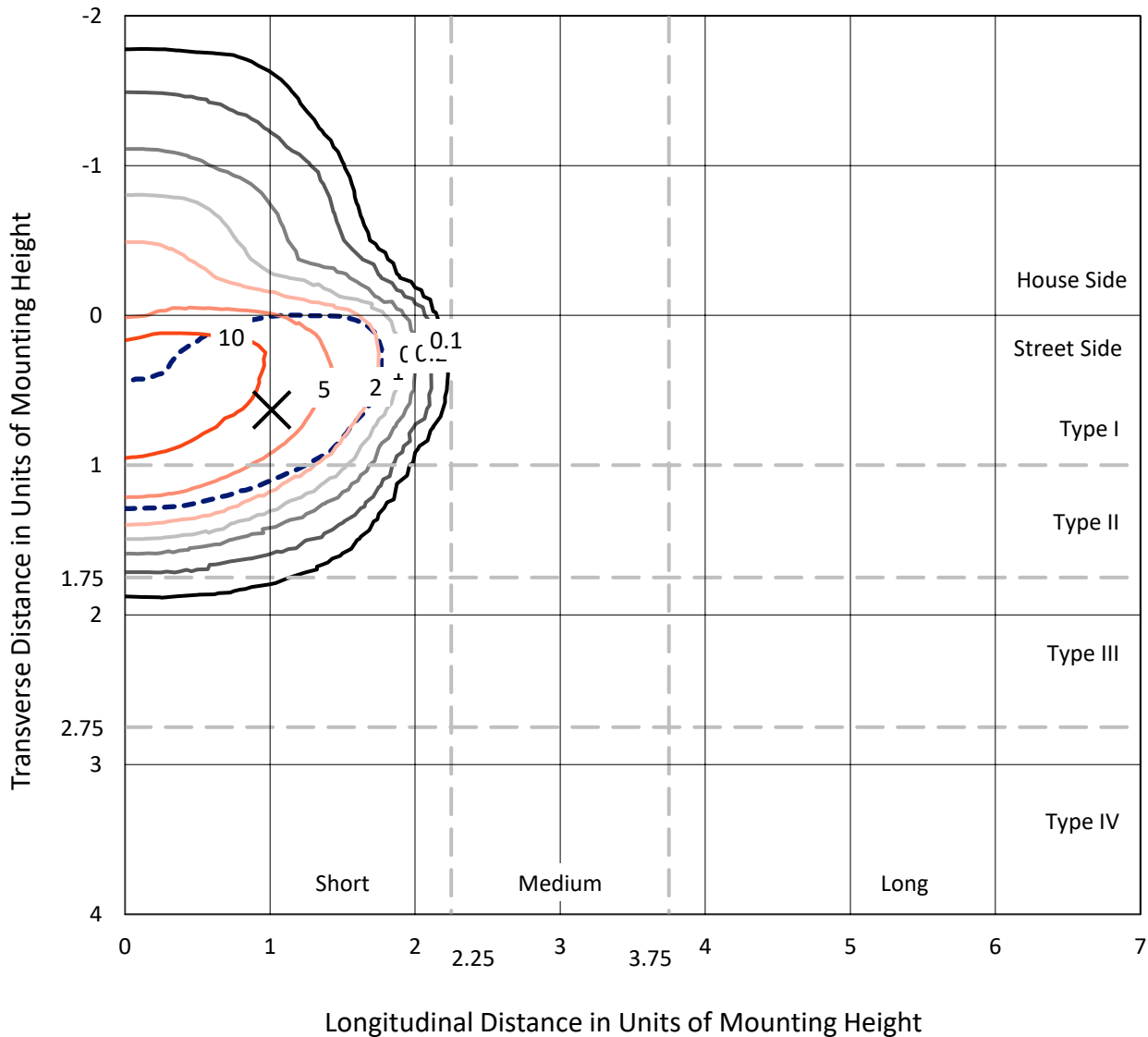
Input Watts (W): 44.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

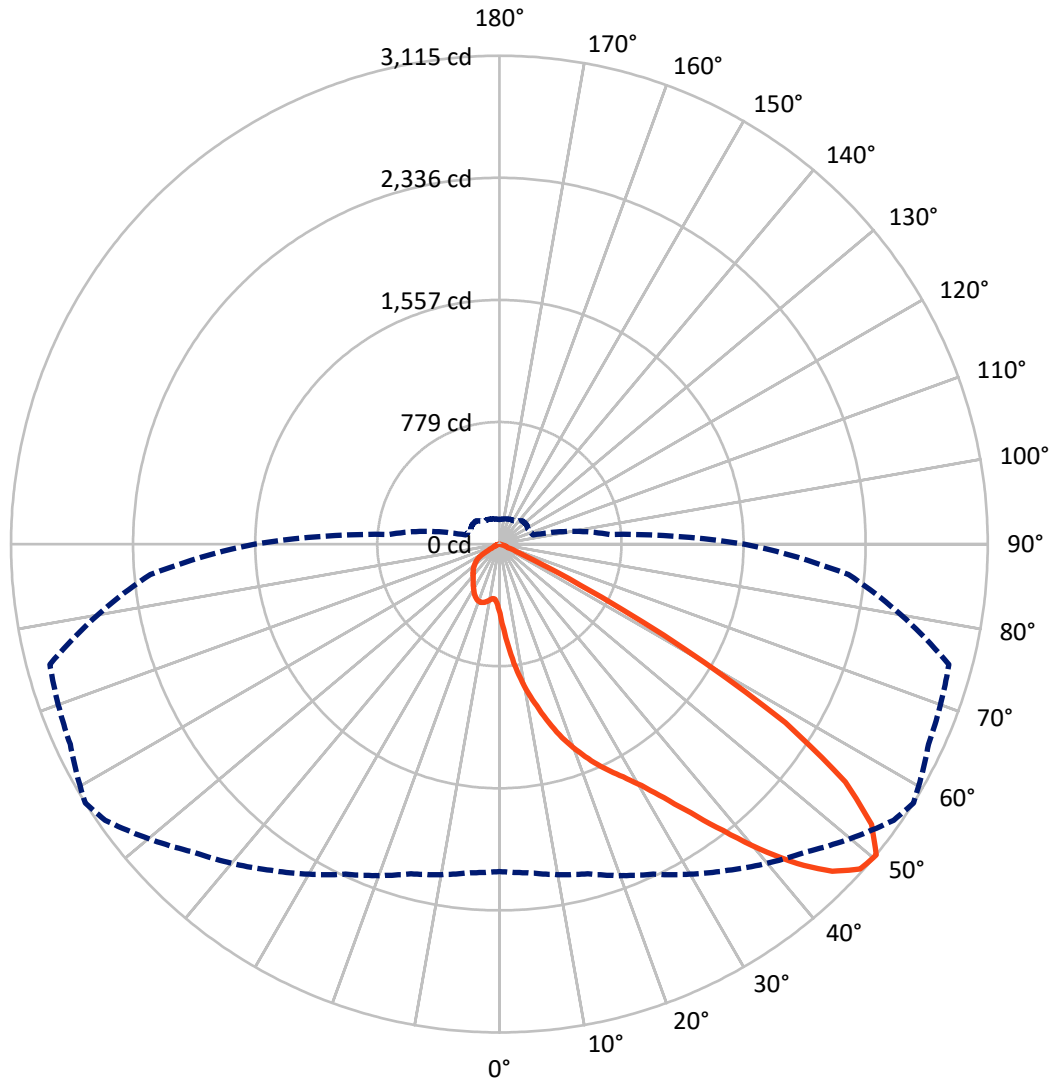
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.6 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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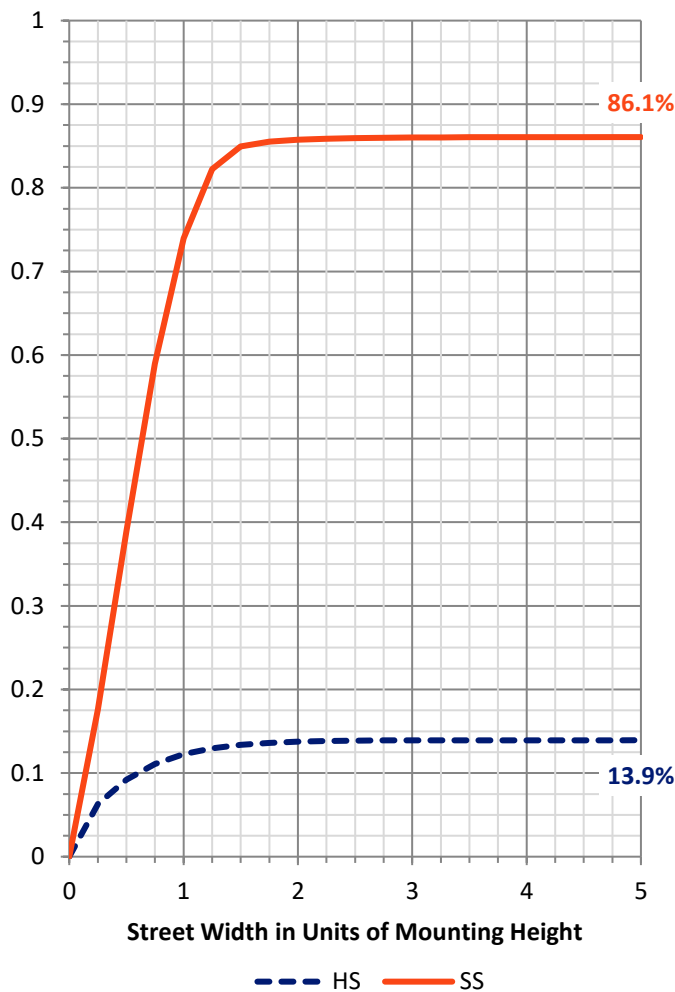
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 518.4 | 0.0 | 518.4 |
| | % Fixture | 14.0 | 0.0 | 14.0 |
| Street Side | Lumens | 3183.1 | 0.0 | 3183.1 |
| | % Fixture | 86.0 | 0.0 | 86.0 |
| Total | Lumens | 3701.5 | 0.0 | 3701.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 54.8 | 1.5 |
| 10°-20° | 216.8 | 5.9 |
| 20°-30° | 438.8 | 11.9 |
| 30°-40° | 776.2 | 21.0 |
| 40°-50° | 1131.6 | 30.6 |
| 50°-60° | 907.0 | 24.5 |
| 60°-70° | 163.4 | 4.4 |
| 70°-80° | 12.9 | 0.3 |
| 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° | 3701.5 | 100.0 |
| 0°-180° | 3701.5 | 100.0 |

Coefficient of Utilization



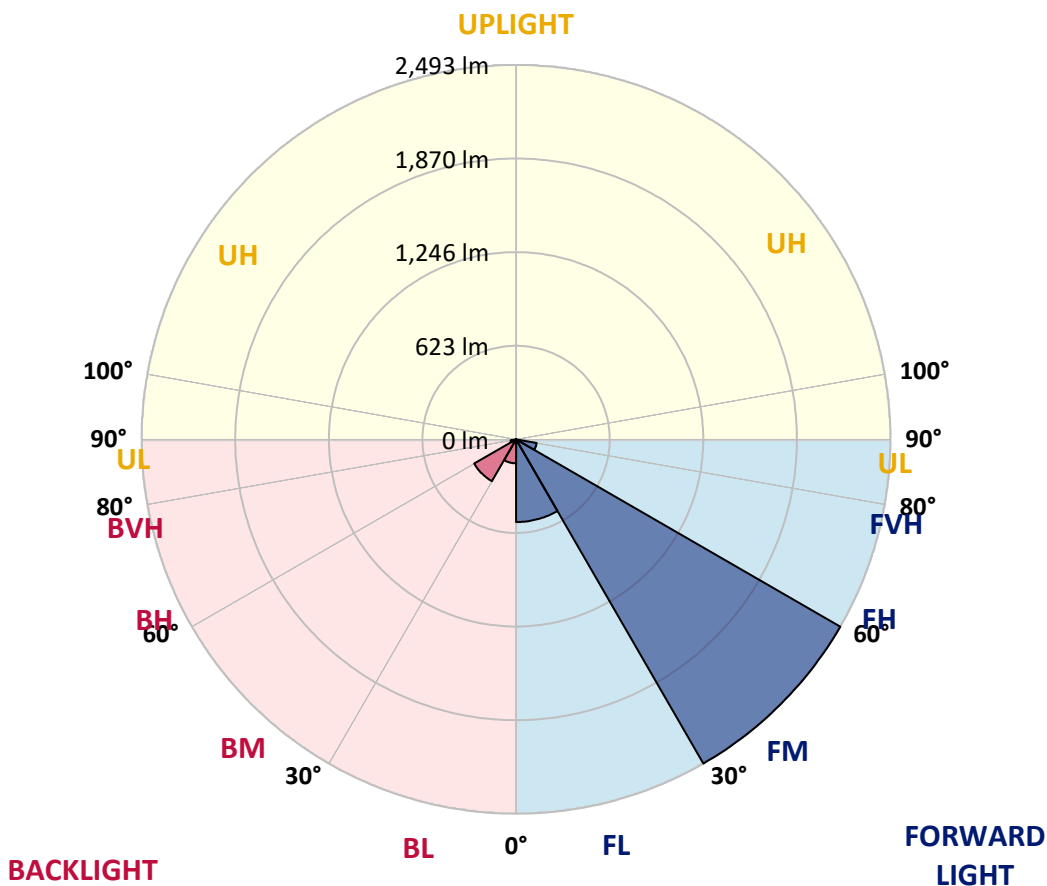
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 550.8 | 14.9 | | | |
| FM (30°-60°) | 2492.9 | 67.3 | | | |
| FH (60°-80°) | 139.4 | 3.8 | | | G0/660 |
| FVH (80°-90°) | 0.0 | 0.0 | | | G0/10 |
| BL (0°-30°) | 159.6 | 4.3 | B1/500 | | |
| BM (30°-60°) | 322.0 | 8.7 | B1/1000 | | |
| BH (60°-80°) | 36.8 | 1.0 | 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-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 442.1 | 442.1 | 442.1 | 442.1 | 442.1 | 442.1 | 442.1 | 442.1 | 442.1 | 442.1 | 442.1 |
| 2.5° | 654.3 | 644.0 | 638.1 | 633.3 | 612.3 | 579.1 | 557.3 | 545.8 | 526.8 | 494.8 | 467.1 |
| 5° | 853.8 | 846.3 | 832.4 | 822.9 | 796.0 | 748.9 | 700.2 | 680.8 | 637.7 | 565.2 | 500.3 |
| 7.5° | 986.0 | 980.5 | 975.3 | 962.6 | 937.3 | 894.6 | 840.7 | 820.5 | 754.0 | 651.1 | 544.7 |
| 10° | 1087.7 | 1083.4 | 1077.4 | 1077.0 | 1057.3 | 1018.9 | 966.2 | 945.2 | 873.2 | 744.5 | 596.9 |
| 12.5° | 1177.2 | 1173.6 | 1172.4 | 1183.5 | 1170.9 | 1142.4 | 1085.4 | 1059.2 | 982.8 | 839.9 | 654.7 |
| 15° | 1238.5 | 1237.7 | 1242.9 | 1264.7 | 1271.8 | 1258.7 | 1210.8 | 1182.7 | 1094.9 | 935.7 | 718.4 |
| 17.5° | 1266.6 | 1269.0 | 1278.9 | 1316.5 | 1348.2 | 1359.3 | 1322.5 | 1298.7 | 1206.1 | 1032.7 | 786.5 |
| 20° | 1314.5 | 1313.7 | 1319.7 | 1355.3 | 1394.1 | 1433.7 | 1422.6 | 1402.4 | 1318.5 | 1135.2 | 862.1 |
| 22.5° | 1449.5 | 1438.0 | 1425.4 | 1430.9 | 1444.8 | 1491.1 | 1511.7 | 1501.4 | 1434.5 | 1240.5 | 940.1 |
| 25° | 1656.9 | 1645.1 | 1604.3 | 1564.7 | 1538.6 | 1559.6 | 1587.7 | 1592.8 | 1549.7 | 1348.6 | 1021.6 |
| 27.5° | 1877.0 | 1866.3 | 1820.4 | 1761.0 | 1686.2 | 1649.8 | 1670.8 | 1681.1 | 1662.9 | 1477.2 | 1108.3 |
| 30° | 2083.2 | 2069.0 | 2018.7 | 1945.1 | 1858.4 | 1802.6 | 1778.8 | 1786.0 | 1796.7 | 1629.6 | 1210.0 |
| 32.5° | 2262.1 | 2251.5 | 2191.3 | 2113.7 | 2030.2 | 1972.0 | 1916.6 | 1928.5 | 1954.6 | 1816.1 | 1340.3 |
| 35° | 2413.7 | 2408.2 | 2344.5 | 2267.3 | 2179.0 | 2149.3 | 2101.8 | 2104.2 | 2130.3 | 2041.3 | 1499.0 |
| 37.5° | 2545.6 | 2536.1 | 2478.3 | 2406.6 | 2336.6 | 2331.8 | 2318.7 | 2319.9 | 2333.4 | 2303.7 | 1681.5 |
| 40° | 2628.7 | 2620.0 | 2578.8 | 2534.5 | 2484.6 | 2485.4 | 2553.1 | 2558.2 | 2542.8 | 2561.4 | 1874.2 |
| 42.5° | 2660.0 | 2653.6 | 2631.5 | 2631.8 | 2626.7 | 2650.1 | 2777.1 | 2786.6 | 2731.2 | 2763.7 | 2038.9 |
| 45° | 2605.7 | 2603.0 | 2604.5 | 2661.5 | 2723.3 | 2795.3 | 2960.4 | 2977.0 | 2898.6 | 2897.8 | 2167.5 |
| 47.5° | 2430.8 | 2425.2 | 2471.5 | 2568.5 | 2711.4 | 2851.5 | 3071.2 | 3096.9 | 3015.8 | 2974.6 | 2248.3 |
| 50° | 2088.0 | 2103.8 | 2177.0 | 2322.7 | 2540.0 | 2774.3 | 3070.0 | 3114.8 | 3020.2 | 2967.9 | 2234.8 |
| 52.5° | 1512.5 | 1509.3 | 1669.6 | 1869.9 | 2134.3 | 2527.4 | 2906.9 | 2972.3 | 2914.5 | 2901.8 | 2204.8 |
| 55° | 822.9 | 851.8 | 959.9 | 1225.1 | 1555.2 | 2059.9 | 2534.5 | 2677.0 | 2743.9 | 2877.7 | 2259.0 |
| 57.5° | 302.4 | 315.1 | 382.8 | 570.4 | 823.3 | 1280.9 | 1936.0 | 2150.9 | 2357.5 | 2810.4 | 2249.9 |
| 60° | 121.9 | 124.3 | 151.2 | 209.8 | 346.0 | 651.9 | 1161.4 | 1352.1 | 1546.9 | 2151.3 | 1726.6 |
| 62.5° | 88.7 | 91.8 | 102.5 | 122.7 | 175.0 | 285.0 | 500.7 | 582.3 | 636.5 | 1065.6 | 850.6 |
| 65° | 71.6 | 74.0 | 82.7 | 91.8 | 115.6 | 153.2 | 161.5 | 155.6 | 154.8 | 275.5 | 195.1 |
| 67.5° | 59.4 | 61.7 | 68.1 | 74.4 | 83.1 | 76.4 | 55.4 | 58.2 | 47.5 | 47.1 | 38.4 |
| 70° | 43.5 | 46.3 | 52.6 | 59.4 | 49.9 | 20.6 | 32.1 | 47.5 | 36.0 | 30.1 | 29.3 |
| 72.5° | 32.9 | 34.8 | 40.8 | 38.8 | 14.6 | 7.9 | 21.4 | 34.4 | 27.7 | 22.2 | 21.8 |
| 75° | 24.5 | 25.7 | 20.6 | 6.3 | 1.6 | 2.0 | 7.9 | 14.2 | 15.4 | 12.7 | 12.7 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 1.2 | 1.6 | 2.0 | 2.4 |
| 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° | 442.1 | 442.1 | 442.1 | 442.1 | 442.1 | 442.1 | 442.1 | 442.1 | 442.1 | 442.1 | 442.1 |
| 2.5° | 451.2 | 434.6 | 410.9 | 391.1 | 376.0 | 361.4 | 350.3 | 339.2 | 338.8 | 333.3 | 332.1 |
| 5° | 470.2 | 440.2 | 396.6 | 365.3 | 346.3 | 334.9 | 327.0 | 323.0 | 321.0 | 319.0 | 318.2 |
| 7.5° | 497.6 | 454.4 | 394.2 | 361.0 | 345.2 | 337.6 | 332.1 | 329.7 | 328.5 | 327.0 | 326.6 |
| 10° | 531.2 | 475.0 | 403.0 | 369.3 | 355.5 | 348.3 | 342.4 | 338.8 | 336.8 | 334.1 | 333.3 |
| 12.5° | 571.6 | 500.3 | 416.8 | 383.2 | 368.5 | 359.0 | 351.1 | 346.0 | 343.2 | 339.6 | 338.8 |
| 15° | 615.1 | 527.6 | 432.2 | 395.8 | 378.4 | 366.1 | 356.2 | 348.3 | 343.2 | 338.8 | 337.6 |
| 17.5° | 660.2 | 555.3 | 446.1 | 404.5 | 383.2 | 368.5 | 354.3 | 343.6 | 337.2 | 331.7 | 330.1 |
| 20° | 710.9 | 583.8 | 455.2 | 406.1 | 381.6 | 362.2 | 345.6 | 332.1 | 325.8 | 318.2 | 316.7 |
| 22.5° | 763.9 | 610.4 | 459.2 | 402.6 | 372.9 | 350.3 | 332.5 | 318.6 | 309.5 | 301.6 | 299.2 |
| 25° | 815.4 | 634.1 | 457.2 | 392.7 | 359.8 | 333.7 | 315.5 | 301.2 | 291.3 | 283.4 | 281.4 |
| 27.5° | 870.0 | 653.9 | 450.1 | 378.0 | 342.0 | 315.5 | 298.1 | 285.8 | 276.7 | 268.0 | 266.0 |
| 30° | 931.4 | 672.1 | 438.6 | 360.2 | 321.0 | 296.9 | 283.4 | 275.1 | 265.2 | 256.1 | 253.3 |
| 32.5° | 1005.4 | 688.3 | 422.0 | 338.8 | 302.4 | 280.6 | 273.1 | 266.8 | 255.3 | 245.8 | 243.8 |
| 35° | 1090.1 | 701.8 | 401.0 | 316.7 | 284.2 | 270.3 | 268.8 | 260.5 | 245.4 | 234.3 | 232.0 |
| 37.5° | 1188.3 | 714.9 | 376.0 | 294.9 | 270.7 | 265.6 | 266.0 | 251.7 | 233.5 | 220.1 | 218.5 |
| 40° | 1294.0 | 727.9 | 348.3 | 275.9 | 258.5 | 262.8 | 259.3 | 239.1 | 209.4 | 196.3 | 194.7 |
| 42.5° | 1404.0 | 742.2 | 320.2 | 258.1 | 248.2 | 252.1 | 247.0 | 213.7 | 192.4 | 185.6 | 184.9 |
| 45° | 1503.3 | 759.2 | 289.7 | 240.3 | 237.9 | 236.7 | 228.0 | 193.6 | 184.5 | 179.7 | 179.3 |
| 47.5° | 1575.0 | 756.4 | 257.3 | 223.2 | 226.8 | 222.9 | 196.3 | 184.1 | 176.5 | 170.2 | 168.6 |
| 50° | 1561.9 | 708.1 | 223.6 | 204.2 | 212.6 | 209.0 | 176.5 | 173.0 | 166.2 | 159.5 | 157.1 |
| 52.5° | 1528.7 | 642.4 | 194.4 | 184.1 | 197.1 | 188.8 | 163.1 | 159.5 | 153.6 | 144.9 | 142.1 |
| 55° | 1546.5 | 580.7 | 171.4 | 167.8 | 181.3 | 156.4 | 148.0 | 142.5 | 136.2 | 126.7 | 125.5 |
| 57.5° | 1489.1 | 473.8 | 137.7 | 140.1 | 160.3 | 133.4 | 129.8 | 121.1 | 110.4 | 104.1 | 103.3 |
| 60° | 1030.7 | 254.5 | 86.3 | 89.1 | 116.0 | 112.0 | 116.4 | 108.5 | 95.4 | 89.5 | 88.3 |
| 62.5° | 473.4 | 102.1 | 47.1 | 45.1 | 61.0 | 76.0 | 99.7 | 99.0 | 82.7 | 73.2 | 72.4 |
| 65° | 114.8 | 46.7 | 33.6 | 31.7 | 34.4 | 45.5 | 64.9 | 78.0 | 66.9 | 55.8 | 54.6 |
| 67.5° | 37.2 | 38.0 | 30.9 | 28.9 | 30.5 | 34.0 | 38.8 | 43.1 | 42.7 | 39.2 | 38.4 |
| 70° | 29.7 | 34.4 | 28.5 | 26.1 | 26.1 | 27.3 | 26.1 | 21.0 | 18.2 | 19.8 | 20.6 |
| 72.5° | 22.2 | 26.1 | 22.6 | 20.2 | 19.4 | 19.0 | 16.2 | 11.9 | 8.3 | 7.5 | 7.1 |
| 75° | 13.1 | 14.6 | 13.9 | 11.9 | 11.1 | 9.9 | 7.9 | 5.1 | 2.8 | 2.0 | 1.2 |
| 77.5° | 2.4 | 2.8 | 3.2 | 2.4 | 2.0 | 1.6 | 1.2 | 0.4 | 0.0 | 0.0 | 0.0 |
| 80° | 0.0 | 0.4 | 0.4 | 0.4 | 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)