

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: P632556

Luminaire Tested: GWS-SA2C-830-U-T3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632556
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2C-830-U-T3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4540.1 lumens
Efficiency: N/A
Efficacy: 71.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

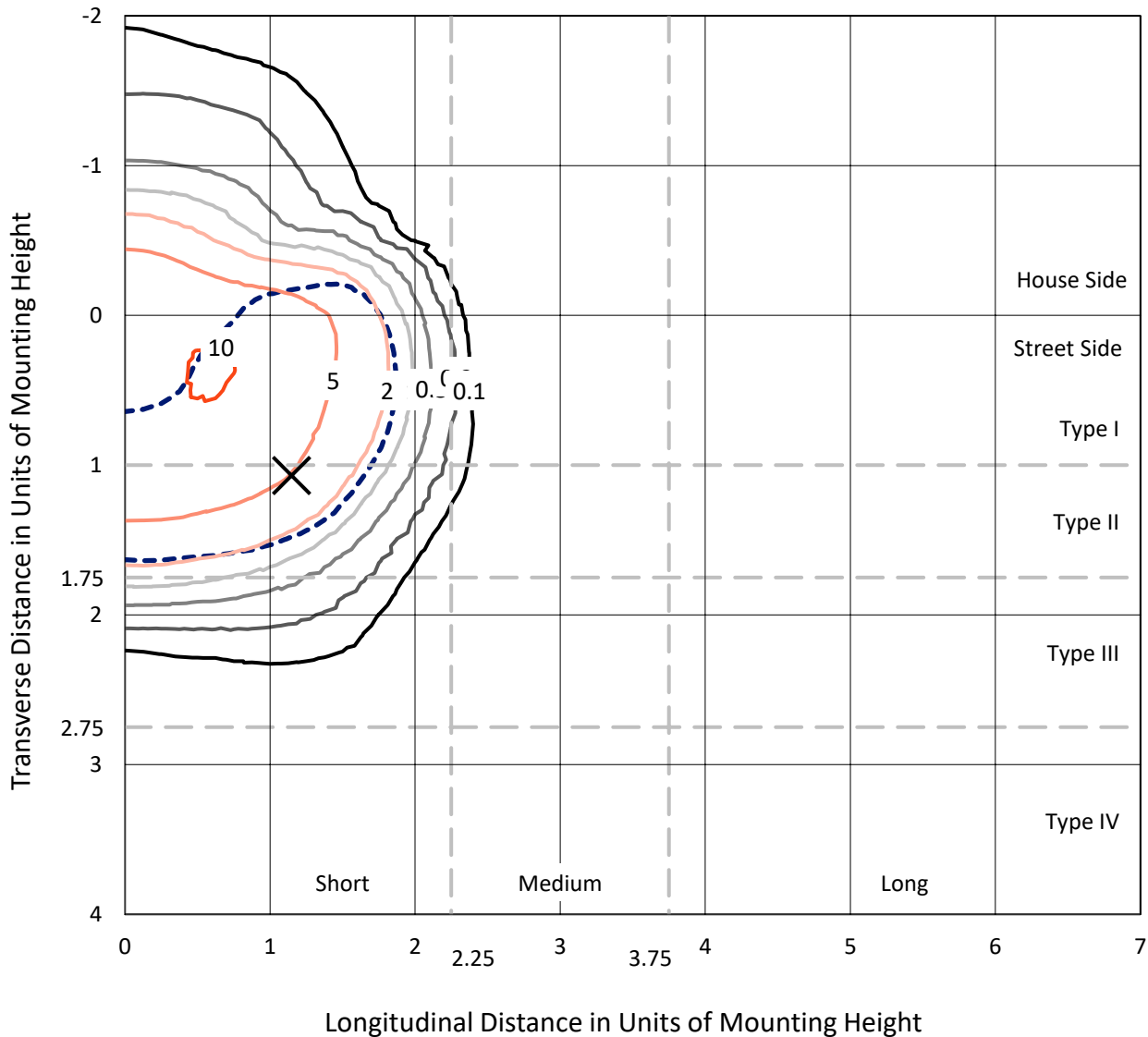
Input Watts (W): 63.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

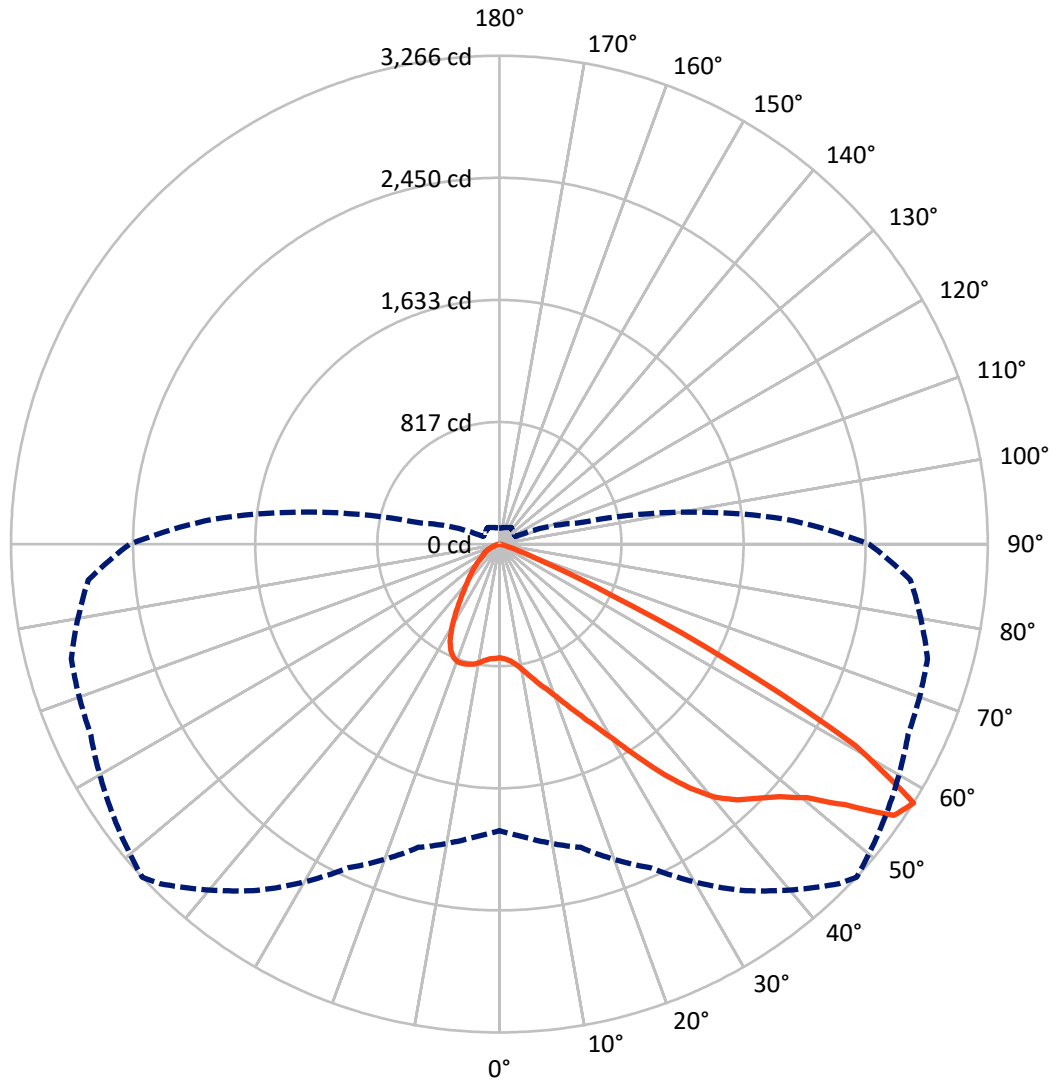
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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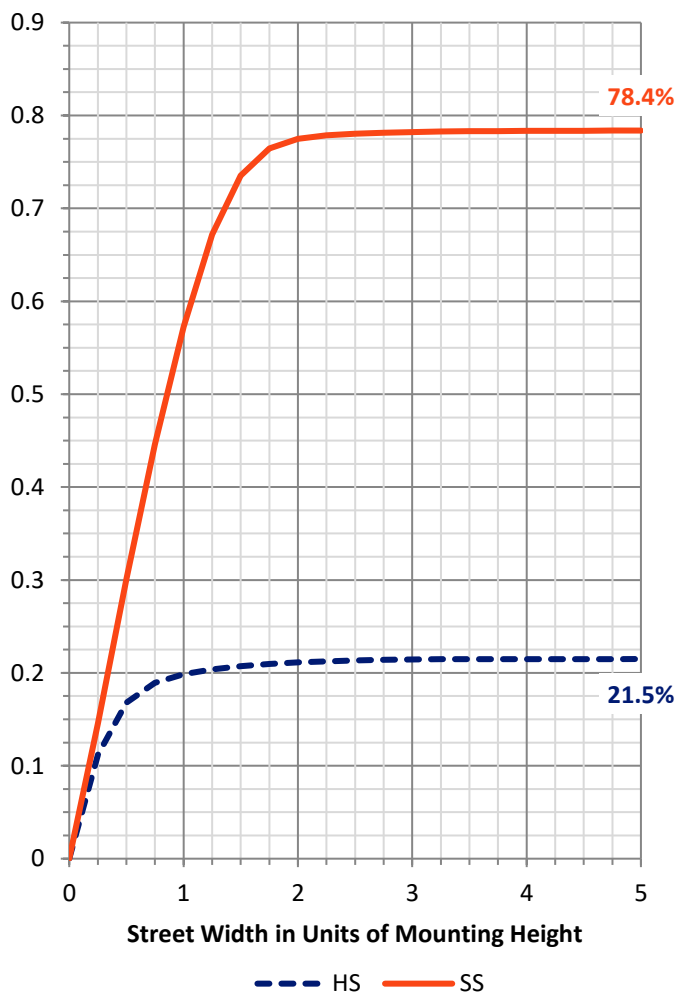
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 985.0 | 0.0 | 985.0 |
| | % Fixture | 21.7 | 0.0 | 21.7 |
| Street Side | Lumens | 3555.1 | 0.0 | 3555.1 |
| | % Fixture | 78.3 | 0.0 | 78.3 |
| Total | Lumens | 4540.1 | 0.0 | 4540.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 75.6 | 1.7 |
| 10°-20° | 255.1 | 5.6 |
| 20°-30° | 473.7 | 10.4 |
| 30°-40° | 758.3 | 16.7 |
| 40°-50° | 1108.5 | 24.4 |
| 50°-60° | 1368.1 | 30.1 |
| 60°-70° | 457.1 | 10.1 |
| 70°-80° | 42.6 | 0.9 |
| 80°-90° | 0.9 | 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° | 4540.1 | 100.0 |
| 0°-180° | 4540.1 | 100.0 |

Coefficient of Utilization



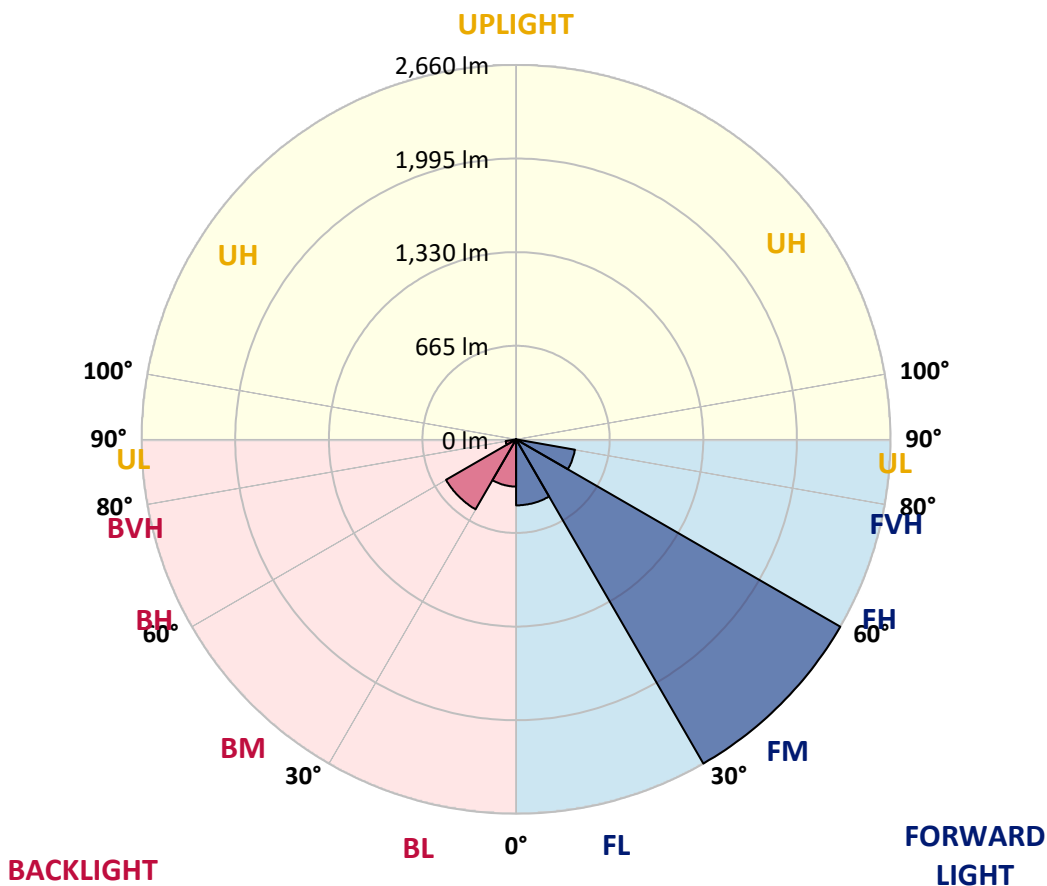
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 469.2 | 10.3 | | | |
| FM (30°-60°) | 2660.5 | 58.6 | | | |
| FH (60°-80°) | 424.9 | 9.4 | | | G0/660 |
| FVH (80°-90°) | 0.6 | 0.0 | | | G0/10 |
| BL (0°-30°) | 335.3 | 7.4 | B1/500 | | |
| BM (30°-60°) | 574.5 | 12.7 | B1/1000 | | |
| BH (60°-80°) | 74.9 | 1.6 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.3 | 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° | 47° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 760.0 | 760.0 | 760.0 | 760.0 | 760.0 | 760.0 | 760.0 | 760.0 | 760.0 | 760.0 | 760.0 |
| 2.5° | 767.9 | 767.4 | 766.9 | 770.0 | 769.0 | 768.5 | 769.5 | 769.5 | 769.5 | 766.3 | 760.0 |
| 5° | 786.4 | 786.4 | 785.8 | 789.0 | 786.4 | 784.8 | 785.3 | 785.3 | 783.2 | 777.4 | 769.5 |
| 7.5° | 815.4 | 814.3 | 813.3 | 816.4 | 813.8 | 813.3 | 814.3 | 811.1 | 807.5 | 798.0 | 786.9 |
| 10° | 857.0 | 857.0 | 855.4 | 858.6 | 856.5 | 855.4 | 855.4 | 853.3 | 846.5 | 831.7 | 815.4 |
| 12.5° | 914.4 | 911.8 | 908.1 | 905.5 | 904.4 | 903.9 | 904.4 | 901.3 | 893.9 | 874.9 | 852.3 |
| 15° | 977.2 | 975.1 | 969.3 | 965.0 | 959.2 | 958.2 | 961.4 | 958.7 | 951.3 | 925.5 | 893.4 |
| 17.5° | 1056.2 | 1058.9 | 1044.1 | 1035.1 | 1018.3 | 1017.2 | 1018.3 | 1022.5 | 1017.2 | 984.0 | 937.1 |
| 20° | 1123.7 | 1125.8 | 1114.7 | 1108.4 | 1093.1 | 1086.3 | 1088.4 | 1095.2 | 1089.4 | 1050.4 | 985.1 |
| 22.5° | 1195.9 | 1198.5 | 1186.9 | 1173.8 | 1166.9 | 1166.9 | 1174.8 | 1184.3 | 1176.4 | 1125.3 | 1039.9 |
| 25° | 1282.3 | 1284.4 | 1275.0 | 1257.6 | 1245.4 | 1260.7 | 1272.3 | 1297.6 | 1284.4 | 1214.9 | 1104.7 |
| 27.5° | 1381.4 | 1381.9 | 1368.2 | 1350.3 | 1344.0 | 1372.5 | 1384.1 | 1423.1 | 1417.8 | 1315.5 | 1173.2 |
| 30° | 1487.4 | 1487.9 | 1484.7 | 1472.6 | 1466.8 | 1504.2 | 1520.0 | 1576.4 | 1572.7 | 1440.4 | 1266.5 |
| 32.5° | 1597.5 | 1597.5 | 1603.3 | 1602.3 | 1609.1 | 1670.2 | 1695.5 | 1759.8 | 1756.2 | 1593.3 | 1382.5 |
| 35° | 1708.2 | 1708.7 | 1718.7 | 1744.0 | 1772.5 | 1853.7 | 1886.9 | 1964.9 | 1956.4 | 1776.2 | 1530.6 |
| 37.5° | 1834.2 | 1828.9 | 1842.6 | 1880.5 | 1943.8 | 2037.6 | 2069.2 | 2143.5 | 2134.1 | 1963.3 | 1724.0 |
| 40° | 1986.0 | 1976.5 | 1976.5 | 2020.7 | 2092.4 | 2200.5 | 2227.3 | 2264.2 | 2232.1 | 2114.6 | 1913.7 |
| 42.5° | 2153.6 | 2144.6 | 2133.0 | 2172.0 | 2232.1 | 2316.4 | 2338.6 | 2328.5 | 2302.2 | 2257.4 | 2129.8 |
| 45° | 2323.3 | 2309.6 | 2317.5 | 2341.2 | 2376.0 | 2416.0 | 2424.5 | 2378.1 | 2366.0 | 2378.6 | 2308.5 |
| 47.5° | 2452.4 | 2442.9 | 2462.4 | 2495.6 | 2524.1 | 2529.9 | 2524.1 | 2459.8 | 2458.7 | 2503.5 | 2432.4 |
| 50° | 2495.6 | 2496.7 | 2550.4 | 2623.2 | 2669.0 | 2673.8 | 2665.9 | 2592.1 | 2582.1 | 2595.2 | 2499.3 |
| 52.5° | 2499.8 | 2504.1 | 2582.6 | 2721.2 | 2846.1 | 2903.0 | 2896.7 | 2817.1 | 2719.1 | 2704.9 | 2600.5 |
| 55° | 2398.1 | 2422.9 | 2532.5 | 2734.9 | 3000.5 | 3182.4 | 3203.5 | 3051.1 | 2905.7 | 2893.5 | 2818.2 |
| 57.5° | 1916.9 | 1967.5 | 2099.8 | 2388.1 | 2828.2 | 3211.4 | 3266.2 | 3156.6 | 3015.8 | 2964.2 | 2759.7 |
| 60° | 1145.8 | 1208.5 | 1335.6 | 1689.2 | 2152.5 | 2639.5 | 2733.8 | 2749.1 | 2684.3 | 2535.1 | 2117.2 |
| 62.5° | 491.7 | 486.5 | 643.0 | 913.9 | 1280.2 | 1677.6 | 1720.3 | 1786.7 | 1843.1 | 1687.1 | 1285.0 |
| 65° | 168.7 | 183.4 | 255.1 | 412.2 | 640.9 | 779.0 | 816.9 | 876.5 | 956.6 | 789.5 | 470.7 |
| 67.5° | 104.4 | 110.7 | 147.0 | 243.5 | 345.8 | 340.5 | 323.6 | 314.1 | 305.7 | 209.2 | 129.1 |
| 70° | 75.9 | 81.2 | 103.3 | 167.6 | 232.4 | 163.4 | 141.8 | 114.9 | 127.5 | 117.5 | 91.7 |
| 72.5° | 51.1 | 55.3 | 71.2 | 101.7 | 119.1 | 79.6 | 73.8 | 83.8 | 101.2 | 96.5 | 74.8 |
| 75° | 30.6 | 33.2 | 40.6 | 49.5 | 48.5 | 41.1 | 41.6 | 59.0 | 77.5 | 72.2 | 53.2 |
| 77.5° | 21.1 | 22.1 | 26.9 | 32.2 | 23.7 | 12.6 | 11.6 | 16.3 | 26.4 | 26.4 | 17.9 |
| 80° | 5.3 | 6.9 | 6.9 | 4.2 | 3.7 | 3.2 | 3.2 | 4.7 | 7.4 | 5.3 | 2.6 |
| 82.5° | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 1.1 | 1.1 | 1.1 | 1.1 |
| 85° | 0.0 | 0.0 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 1.1 | 1.1 | 1.1 |
| 87.5° | 0.0 | 0.0 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 1.1 | 1.1 |
| 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° | 760.0 | 760.0 | 760.0 | 760.0 | 760.0 | 760.0 | 760.0 | 760.0 | 760.0 | 760.0 | 760.0 |
| 2.5° | 763.7 | 757.4 | 761.6 | 760.5 | 763.7 | 764.8 | 760.0 | 759.0 | 759.5 | 753.2 | 751.1 |
| 5° | 771.1 | 763.7 | 765.8 | 763.7 | 767.4 | 770.6 | 769.0 | 771.1 | 773.7 | 769.0 | 766.9 |
| 7.5° | 786.9 | 779.5 | 779.0 | 775.8 | 781.1 | 783.2 | 782.7 | 788.5 | 793.7 | 790.6 | 787.4 |
| 10° | 814.3 | 804.3 | 803.2 | 800.6 | 802.2 | 803.8 | 798.0 | 799.0 | 803.8 | 800.1 | 798.5 |
| 12.5° | 848.0 | 835.9 | 833.3 | 827.0 | 827.0 | 819.0 | 806.4 | 803.8 | 807.5 | 804.8 | 802.2 |
| 15° | 884.4 | 868.1 | 863.8 | 852.8 | 842.2 | 827.5 | 814.3 | 811.1 | 813.8 | 810.6 | 808.5 |
| 17.5° | 925.0 | 906.5 | 892.8 | 873.3 | 850.1 | 832.8 | 818.0 | 811.1 | 806.9 | 800.6 | 800.1 |
| 20° | 965.0 | 940.8 | 917.6 | 886.5 | 855.9 | 829.6 | 805.3 | 787.4 | 772.1 | 762.7 | 759.0 |
| 22.5° | 1011.4 | 975.6 | 938.2 | 894.4 | 850.7 | 810.6 | 767.9 | 737.4 | 711.0 | 702.0 | 697.8 |
| 25° | 1061.0 | 1014.6 | 958.7 | 901.8 | 832.8 | 768.5 | 710.5 | 665.1 | 630.4 | 618.8 | 614.0 |
| 27.5° | 1115.8 | 1052.0 | 979.8 | 900.2 | 795.9 | 708.4 | 631.4 | 575.0 | 540.8 | 530.2 | 533.9 |
| 30° | 1185.4 | 1100.5 | 1006.2 | 883.9 | 740.5 | 624.0 | 533.9 | 486.5 | 460.6 | 450.6 | 451.2 |
| 32.5° | 1278.1 | 1170.1 | 1044.6 | 849.1 | 669.4 | 528.1 | 449.1 | 414.3 | 396.9 | 383.7 | 382.6 |
| 35° | 1410.9 | 1276.0 | 1080.5 | 793.2 | 582.9 | 442.7 | 385.3 | 357.9 | 333.6 | 318.3 | 321.0 |
| 37.5° | 1570.1 | 1409.4 | 1100.0 | 717.9 | 485.9 | 376.3 | 337.3 | 309.4 | 282.0 | 259.3 | 261.9 |
| 40° | 1758.8 | 1583.8 | 1098.4 | 618.8 | 397.4 | 331.0 | 297.3 | 264.6 | 230.3 | 209.8 | 211.9 |
| 42.5° | 1969.1 | 1748.8 | 1064.1 | 513.9 | 329.4 | 294.1 | 258.8 | 217.7 | 184.5 | 171.8 | 172.3 |
| 45° | 2151.5 | 1882.7 | 1004.0 | 405.3 | 277.2 | 258.3 | 218.7 | 176.6 | 161.8 | 152.8 | 152.3 |
| 47.5° | 2286.4 | 1980.7 | 918.1 | 318.9 | 235.1 | 225.6 | 179.7 | 158.1 | 146.5 | 139.1 | 138.1 |
| 50° | 2361.7 | 2014.9 | 823.3 | 249.8 | 198.7 | 191.3 | 160.8 | 143.4 | 135.5 | 130.7 | 129.7 |
| 52.5° | 2462.9 | 2056.1 | 755.3 | 197.1 | 166.6 | 156.5 | 148.1 | 133.3 | 128.1 | 124.4 | 122.8 |
| 55° | 2623.2 | 2135.6 | 696.2 | 156.5 | 138.6 | 136.5 | 139.7 | 127.5 | 124.4 | 118.6 | 116.5 |
| 57.5° | 2472.4 | 1918.5 | 540.8 | 121.2 | 117.0 | 124.9 | 134.9 | 121.8 | 113.8 | 108.6 | 106.5 |
| 60° | 1739.8 | 1275.5 | 272.0 | 97.5 | 104.4 | 117.0 | 127.0 | 110.2 | 102.2 | 103.3 | 102.2 |
| 62.5° | 959.2 | 638.3 | 122.3 | 81.7 | 90.7 | 103.3 | 108.6 | 95.4 | 90.1 | 99.1 | 100.7 |
| 65° | 313.6 | 217.1 | 70.6 | 63.2 | 71.7 | 84.3 | 93.8 | 90.7 | 89.6 | 100.1 | 103.3 |
| 67.5° | 96.5 | 71.7 | 48.0 | 45.3 | 49.5 | 62.2 | 79.1 | 98.0 | 105.4 | 108.6 | 110.2 |
| 70° | 72.2 | 56.4 | 41.1 | 38.5 | 40.6 | 47.4 | 66.9 | 81.7 | 77.0 | 77.5 | 76.4 |
| 72.5° | 58.0 | 44.8 | 35.3 | 33.7 | 33.7 | 32.7 | 35.3 | 44.3 | 50.1 | 52.7 | 52.7 |
| 75° | 40.6 | 31.6 | 26.9 | 24.8 | 19.5 | 15.8 | 14.2 | 14.2 | 12.6 | 12.1 | 11.6 |
| 77.5° | 13.7 | 11.6 | 10.5 | 8.4 | 5.8 | 4.7 | 4.2 | 3.7 | 2.6 | 1.6 | 1.1 |
| 80° | 2.1 | 1.6 | 1.1 | 1.1 | 1.1 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 |
| 82.5° | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 1.1 | 1.1 | 1.1 | 1.1 | 0.5 | 0.5 | 0.5 | 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)