

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: P640364

Luminaire Tested: GWS-SA5D-760-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640364
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-760-U-T2R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24442.9 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

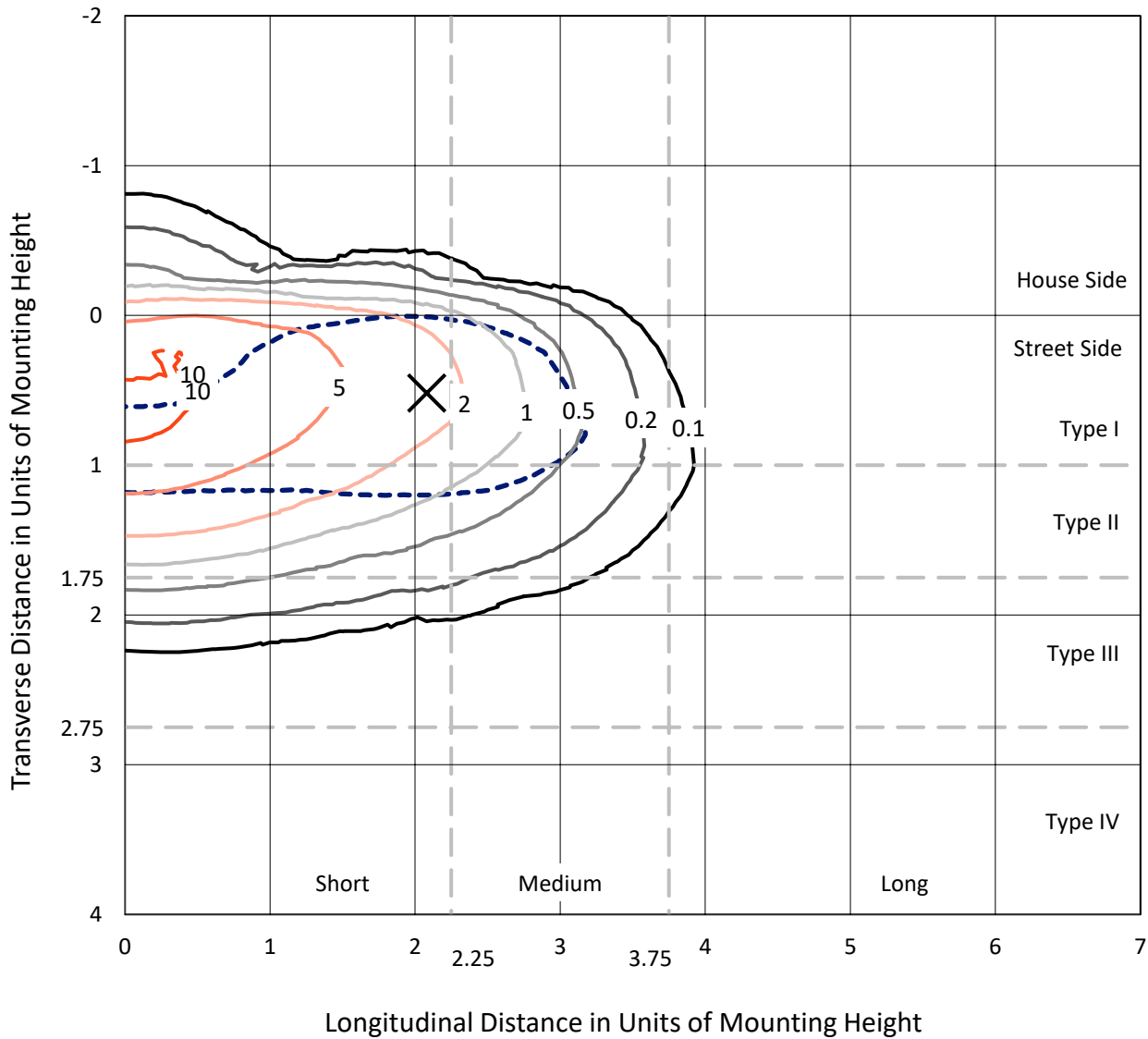
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

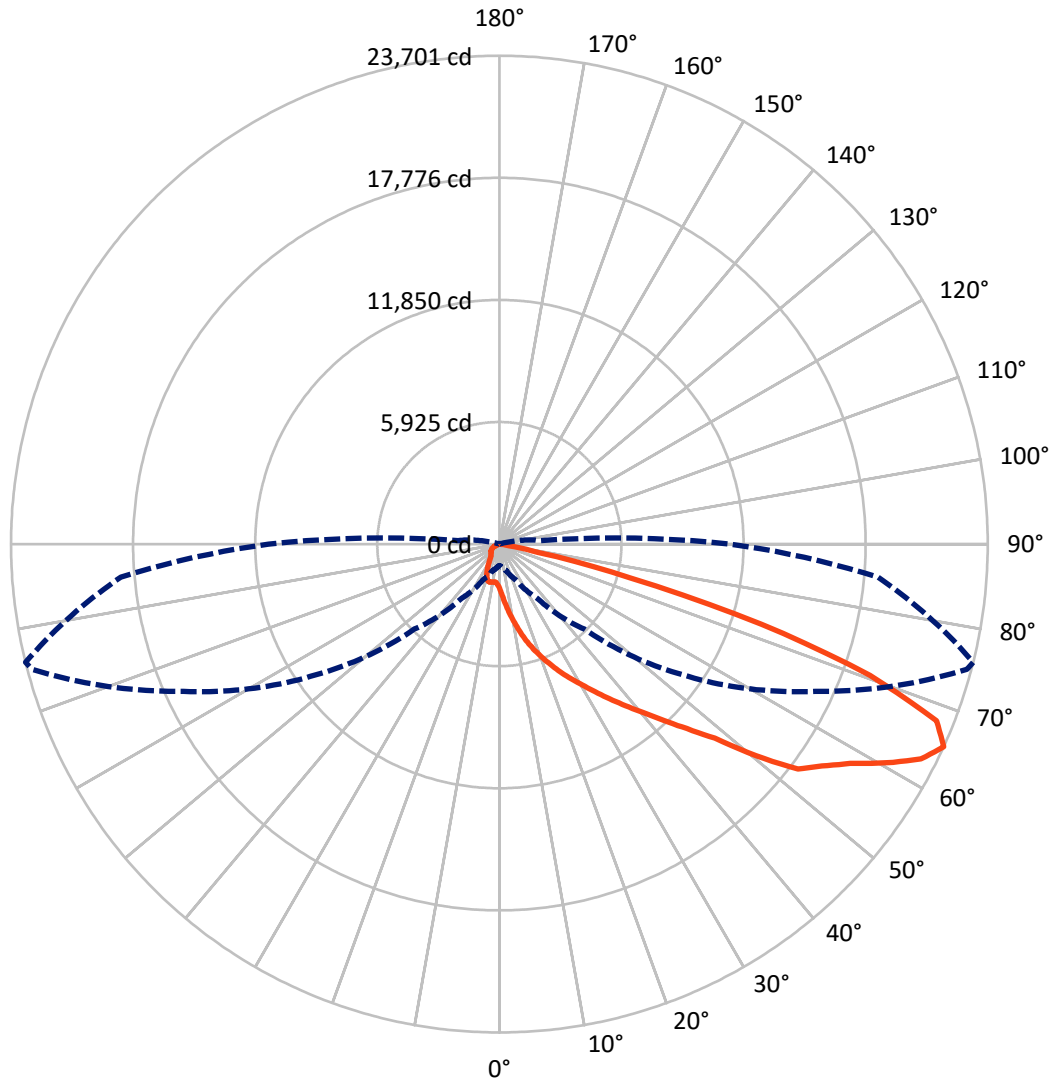
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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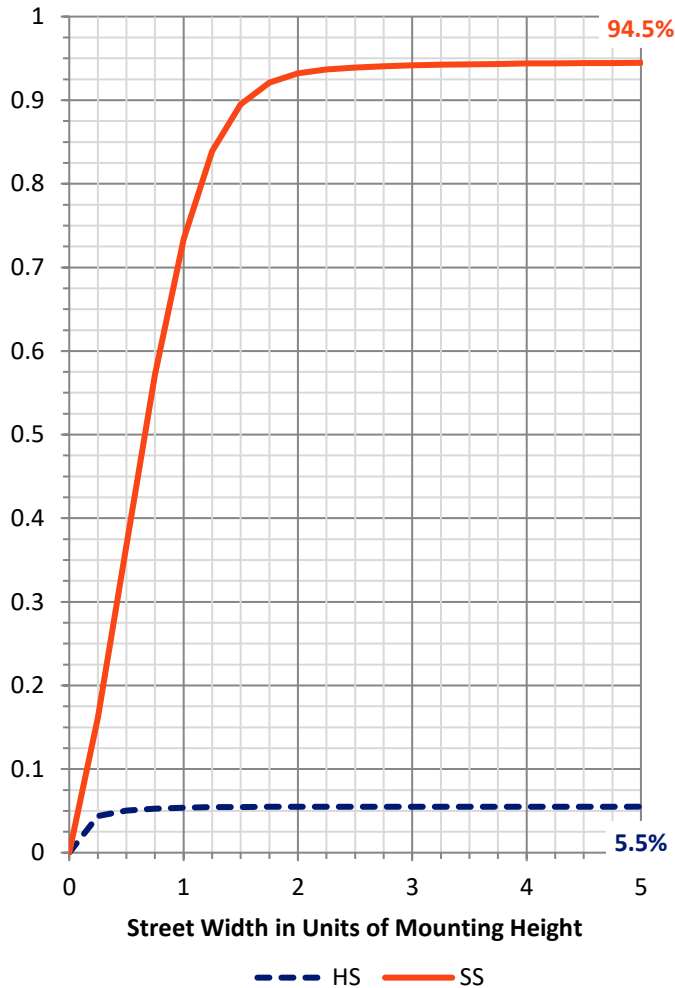
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1351.5 | 0.0 | 1351.5 |
| | % Fixture | 5.5 | 0.0 | 5.5 |
| Street Side | Lumens | 23091.4 | 0.0 | 23091.4 |
| | % Fixture | 94.5 | 0.0 | 94.5 |
| Total | Lumens | 24442.9 | 0.0 | 24442.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 263.3 | 1.1 |
| 10°-20° | 999.0 | 4.1 |
| 20°-30° | 2038.1 | 8.3 |
| 30°-40° | 3624.8 | 14.8 |
| 40°-50° | 5358.3 | 21.9 |
| 50°-60° | 6134.8 | 25.1 |
| 60°-70° | 4680.6 | 19.1 |
| 70°-80° | 1311.1 | 5.4 |
| 80°-90° | 33.0 | 0.1 |
| 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° | 24442.9 | 100.0 |
| 0°-180° | 24442.9 | 100.0 |

Coefficient of Utilization



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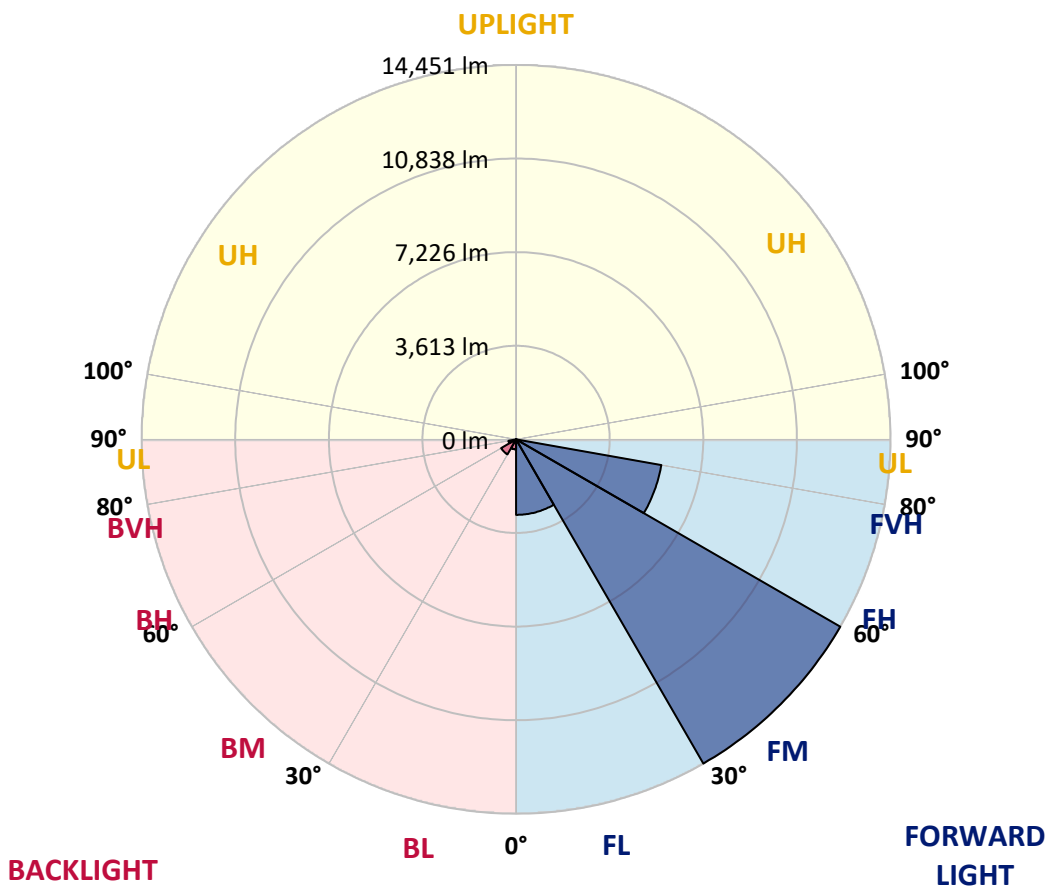
CATALOG NUMBER: GWS-SA5D-760-U-T2R-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2914.6 | 11.9 | | | |
| FM (30°-60°) | 14451.0 | 59.1 | | | |
| FH (60°-80°) | 5694.6 | 23.3 | | | G3/7500 |
| FVH (80°-90°) | 31.1 | 0.1 | | | G1/100 |
| BL (0°-30°) | 385.7 | 1.6 | B1/500 | | |
| BM (30°-60°) | 666.8 | 2.7 | B1/1000 | | |
| BH (60°-80°) | 297.1 | 1.2 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.9 | 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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2164.1 | 2164.1 | 2164.1 | 2164.1 | 2164.1 | 2164.1 | 2164.1 | 2164.1 | 2164.1 | 2164.1 | 2164.1 |
| 2.5° | 3335.2 | 3385.2 | 3346.1 | 3280.9 | 3154.9 | 3033.2 | 2876.8 | 2661.7 | 2490.0 | 2468.3 | 2307.5 |
| 5° | 4504.2 | 4499.8 | 4415.1 | 4330.3 | 4197.8 | 3989.2 | 3674.2 | 3274.4 | 2889.8 | 2857.2 | 2496.5 |
| 7.5° | 5199.5 | 5206.0 | 5158.2 | 5093.0 | 4962.6 | 4747.5 | 4419.4 | 3937.1 | 3374.3 | 3309.1 | 2755.1 |
| 10° | 5783.9 | 5781.8 | 5747.0 | 5716.6 | 5599.3 | 5455.8 | 5103.9 | 4573.7 | 3895.8 | 3793.7 | 3044.1 |
| 12.5° | 6222.8 | 6238.0 | 6255.4 | 6285.9 | 6235.9 | 6094.6 | 5762.2 | 5184.3 | 4423.8 | 4310.8 | 3374.3 |
| 15° | 6570.5 | 6574.8 | 6640.0 | 6757.3 | 6798.6 | 6724.8 | 6422.7 | 5775.2 | 4945.2 | 4847.5 | 3754.6 |
| 17.5° | 6674.8 | 6683.5 | 6794.3 | 7009.4 | 7226.7 | 7267.9 | 7039.8 | 6370.6 | 5458.0 | 5353.7 | 4123.9 |
| 20° | 6894.2 | 6913.8 | 6996.3 | 7185.4 | 7459.2 | 7680.8 | 7591.7 | 6972.4 | 5970.8 | 5833.9 | 4502.0 |
| 22.5° | 7585.2 | 7596.0 | 7567.8 | 7591.7 | 7732.9 | 7989.3 | 8043.6 | 7554.8 | 6496.6 | 6351.0 | 4910.5 |
| 25° | 8773.7 | 8778.0 | 8580.3 | 8393.4 | 8287.0 | 8334.8 | 8454.3 | 8091.4 | 7018.1 | 6874.7 | 5290.7 |
| 27.5° | 10007.8 | 10023.0 | 9786.2 | 9469.0 | 9088.7 | 8871.5 | 8836.7 | 8582.5 | 7543.9 | 7385.3 | 5666.6 |
| 30° | 11170.3 | 11170.3 | 10920.4 | 10533.6 | 10025.2 | 9601.5 | 9351.6 | 9077.9 | 8106.6 | 7932.8 | 6051.2 |
| 32.5° | 12215.4 | 12206.7 | 11887.3 | 11467.9 | 10966.0 | 10501.0 | 9975.2 | 9595.0 | 8732.4 | 8539.0 | 6494.4 |
| 35° | 13078.0 | 13056.2 | 12693.4 | 12291.4 | 11754.7 | 11409.3 | 10822.6 | 10151.2 | 9410.3 | 9216.9 | 6950.7 |
| 37.5° | 13729.8 | 13705.9 | 13373.5 | 12947.6 | 12450.0 | 12226.2 | 11735.2 | 10818.3 | 10125.2 | 9949.2 | 7457.0 |
| 40° | 14084.0 | 14036.2 | 13805.8 | 13488.6 | 13071.4 | 12875.9 | 12671.6 | 11646.1 | 10966.0 | 10746.6 | 8054.5 |
| 42.5° | 14188.2 | 14131.8 | 13979.7 | 13831.9 | 13579.9 | 13425.6 | 13645.1 | 12580.4 | 11889.4 | 11700.4 | 8736.7 |
| 45° | 13879.7 | 13847.1 | 13834.1 | 13940.6 | 13986.2 | 14029.6 | 14570.7 | 13614.6 | 12908.5 | 12765.1 | 9595.0 |
| 47.5° | 13136.6 | 13127.9 | 13243.1 | 13686.3 | 14168.7 | 14627.2 | 15576.7 | 14890.1 | 14229.5 | 14075.3 | 10794.4 |
| 50° | 11763.4 | 11852.5 | 12174.1 | 12951.9 | 13916.7 | 14966.1 | 16517.5 | 16658.7 | 16367.5 | 16141.6 | 12358.8 |
| 52.5° | 9616.7 | 9788.4 | 10509.7 | 11691.7 | 13078.0 | 14870.5 | 16952.0 | 18075.4 | 18373.0 | 18138.4 | 13479.9 |
| 55° | 7546.1 | 7706.8 | 8350.0 | 9849.2 | 11698.2 | 14142.6 | 16971.6 | 18564.2 | 19213.9 | 18996.6 | 14238.2 |
| 57.5° | 5621.0 | 5768.7 | 6353.2 | 7787.2 | 9821.0 | 12710.8 | 16506.6 | 18835.8 | 20211.2 | 20072.1 | 15435.4 |
| 60° | 3674.2 | 3819.7 | 4347.7 | 5601.4 | 7617.8 | 10624.9 | 15361.5 | 18779.3 | 21569.2 | 21556.1 | 16906.4 |
| 62.5° | 2038.1 | 2153.2 | 2535.6 | 3513.4 | 5316.8 | 8228.3 | 13562.5 | 18212.2 | 22883.7 | 22966.3 | 18118.8 |
| 65° | 1042.9 | 1116.8 | 1349.3 | 1931.6 | 3217.9 | 5833.9 | 11196.3 | 16912.9 | 23492.1 | 23700.7 | 18438.2 |
| 67.5° | 682.3 | 706.2 | 762.6 | 1003.8 | 1723.0 | 3669.8 | 8426.0 | 14829.2 | 22636.0 | 22879.4 | 17367.0 |
| 70° | 554.1 | 573.6 | 606.2 | 669.2 | 888.7 | 1949.0 | 5534.1 | 11843.8 | 18914.0 | 19079.2 | 13829.7 |
| 72.5° | 406.3 | 432.4 | 495.4 | 536.7 | 641.0 | 1069.0 | 2878.9 | 7774.2 | 12988.9 | 13280.0 | 8691.1 |
| 75° | 299.8 | 315.1 | 367.2 | 423.7 | 523.6 | 675.7 | 1101.6 | 4087.0 | 6707.4 | 6537.9 | 3650.3 |
| 77.5° | 180.3 | 191.2 | 234.7 | 271.6 | 373.7 | 421.5 | 384.6 | 1510.1 | 2040.2 | 1918.6 | 882.1 |
| 80° | 89.1 | 99.9 | 154.3 | 204.2 | 239.0 | 169.5 | 160.8 | 421.5 | 454.1 | 454.1 | 221.6 |
| 82.5° | 30.4 | 39.1 | 82.6 | 134.7 | 117.3 | 65.2 | 76.0 | 108.6 | 121.7 | 128.2 | 65.2 |
| 85° | 0.0 | 0.0 | 19.6 | 39.1 | 17.4 | 8.7 | 19.6 | 23.9 | 30.4 | 32.6 | 21.7 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.2 | 6.5 | 8.7 | 8.7 |
| 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° | 2164.1 | 2164.1 | 2164.1 | 2164.1 | 2164.1 | 2164.1 | 2164.1 | 2164.1 | 2164.1 | 2164.1 | 2164.1 |
| 2.5° | 2220.6 | 2118.5 | 1964.2 | 1825.1 | 1718.7 | 1618.7 | 1542.7 | 1481.8 | 1471.0 | 1436.2 | 1440.6 |
| 5° | 2320.5 | 2135.8 | 1851.2 | 1631.8 | 1477.5 | 1373.2 | 1286.3 | 1221.1 | 1192.9 | 1164.6 | 1142.9 |
| 7.5° | 2474.8 | 2207.5 | 1807.8 | 1540.5 | 1360.2 | 1199.4 | 1064.7 | 956.0 | 903.9 | 871.3 | 849.6 |
| 10° | 2663.8 | 2307.5 | 1809.9 | 1486.2 | 1218.9 | 973.4 | 788.7 | 669.2 | 612.7 | 595.3 | 593.2 |
| 12.5° | 2889.8 | 2433.5 | 1827.3 | 1397.1 | 1014.7 | 723.5 | 584.5 | 530.2 | 512.8 | 497.6 | 497.6 |
| 15° | 3128.8 | 2574.7 | 1827.3 | 1234.1 | 773.5 | 564.9 | 506.3 | 471.5 | 449.8 | 441.1 | 436.7 |
| 17.5° | 3380.8 | 2707.3 | 1783.9 | 1010.3 | 593.2 | 497.6 | 449.8 | 417.2 | 399.8 | 386.8 | 382.4 |
| 20° | 3650.3 | 2833.3 | 1675.2 | 773.5 | 508.4 | 445.4 | 399.8 | 367.2 | 349.8 | 336.8 | 336.8 |
| 22.5° | 3924.0 | 2950.6 | 1499.2 | 595.3 | 449.8 | 395.4 | 352.0 | 321.6 | 304.2 | 291.2 | 291.2 |
| 25° | 4178.3 | 3028.9 | 1273.2 | 491.0 | 406.3 | 352.0 | 312.9 | 282.5 | 262.9 | 254.2 | 249.9 |
| 27.5° | 4415.1 | 3078.8 | 1023.4 | 432.4 | 365.0 | 315.1 | 273.8 | 245.5 | 230.3 | 223.8 | 219.5 |
| 30° | 4660.6 | 3091.9 | 782.2 | 393.3 | 330.3 | 278.1 | 239.0 | 217.3 | 204.2 | 195.6 | 195.6 |
| 32.5° | 4899.6 | 3076.7 | 597.5 | 360.7 | 299.8 | 245.5 | 212.9 | 193.4 | 182.5 | 176.0 | 173.8 |
| 35° | 5143.0 | 3007.1 | 484.5 | 332.4 | 269.4 | 215.1 | 189.0 | 173.8 | 167.3 | 158.6 | 158.6 |
| 37.5° | 5408.0 | 2913.7 | 421.5 | 304.2 | 239.0 | 193.4 | 169.5 | 158.6 | 149.9 | 143.4 | 141.2 |
| 40° | 5738.3 | 2805.1 | 386.8 | 280.3 | 210.8 | 173.8 | 152.1 | 141.2 | 134.7 | 128.2 | 126.0 |
| 42.5° | 6129.4 | 2698.6 | 369.4 | 254.2 | 189.0 | 154.3 | 136.9 | 123.8 | 117.3 | 108.6 | 106.5 |
| 45° | 6683.5 | 2674.7 | 349.8 | 226.0 | 169.5 | 139.1 | 119.5 | 106.5 | 97.8 | 91.3 | 89.1 |
| 47.5° | 7574.3 | 2742.0 | 317.2 | 195.6 | 149.9 | 121.7 | 102.1 | 91.3 | 80.4 | 73.9 | 69.5 |
| 50° | 8458.6 | 2724.7 | 284.6 | 169.5 | 132.5 | 104.3 | 86.9 | 76.0 | 65.2 | 58.7 | 56.5 |
| 52.5° | 8941.0 | 2642.1 | 254.2 | 149.9 | 115.2 | 89.1 | 73.9 | 60.8 | 54.3 | 47.8 | 45.6 |
| 55° | 9377.7 | 2609.5 | 223.8 | 130.4 | 97.8 | 78.2 | 60.8 | 50.0 | 45.6 | 39.1 | 36.9 |
| 57.5° | 10233.8 | 2685.6 | 197.7 | 113.0 | 84.7 | 67.4 | 52.1 | 41.3 | 36.9 | 30.4 | 28.2 |
| 60° | 11129.0 | 2694.2 | 169.5 | 97.8 | 73.9 | 56.5 | 41.3 | 32.6 | 28.2 | 21.7 | 19.6 |
| 62.5° | 11596.1 | 2474.8 | 139.1 | 82.6 | 60.8 | 47.8 | 34.8 | 26.1 | 21.7 | 13.0 | 13.0 |
| 65° | 11205.0 | 2001.1 | 117.3 | 67.4 | 47.8 | 36.9 | 26.1 | 19.6 | 13.0 | 6.5 | 2.2 |
| 67.5° | 9916.6 | 1423.2 | 97.8 | 54.3 | 34.8 | 26.1 | 19.6 | 13.0 | 2.2 | 0.0 | 0.0 |
| 70° | 7261.4 | 812.6 | 76.0 | 39.1 | 26.1 | 17.4 | 13.0 | 6.5 | 0.0 | 0.0 | 0.0 |
| 72.5° | 4462.9 | 434.6 | 56.5 | 26.1 | 19.6 | 13.0 | 10.9 | 4.3 | 0.0 | 0.0 | 0.0 |
| 75° | 1692.6 | 208.6 | 34.8 | 17.4 | 15.2 | 10.9 | 6.5 | 2.2 | 0.0 | 0.0 | 0.0 |
| 77.5° | 458.5 | 102.1 | 19.6 | 13.0 | 10.9 | 6.5 | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 119.5 | 47.8 | 13.0 | 8.7 | 6.5 | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 41.3 | 21.7 | 6.5 | 6.5 | 4.3 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 17.4 | 8.7 | 4.3 | 4.3 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 6.5 | 2.2 | 2.2 | 2.2 | 2.2 | 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)