

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: P632723

Luminaire Tested: GWS-SA2D-730-U-T3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632723
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2D-730-U-T3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7805.8 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

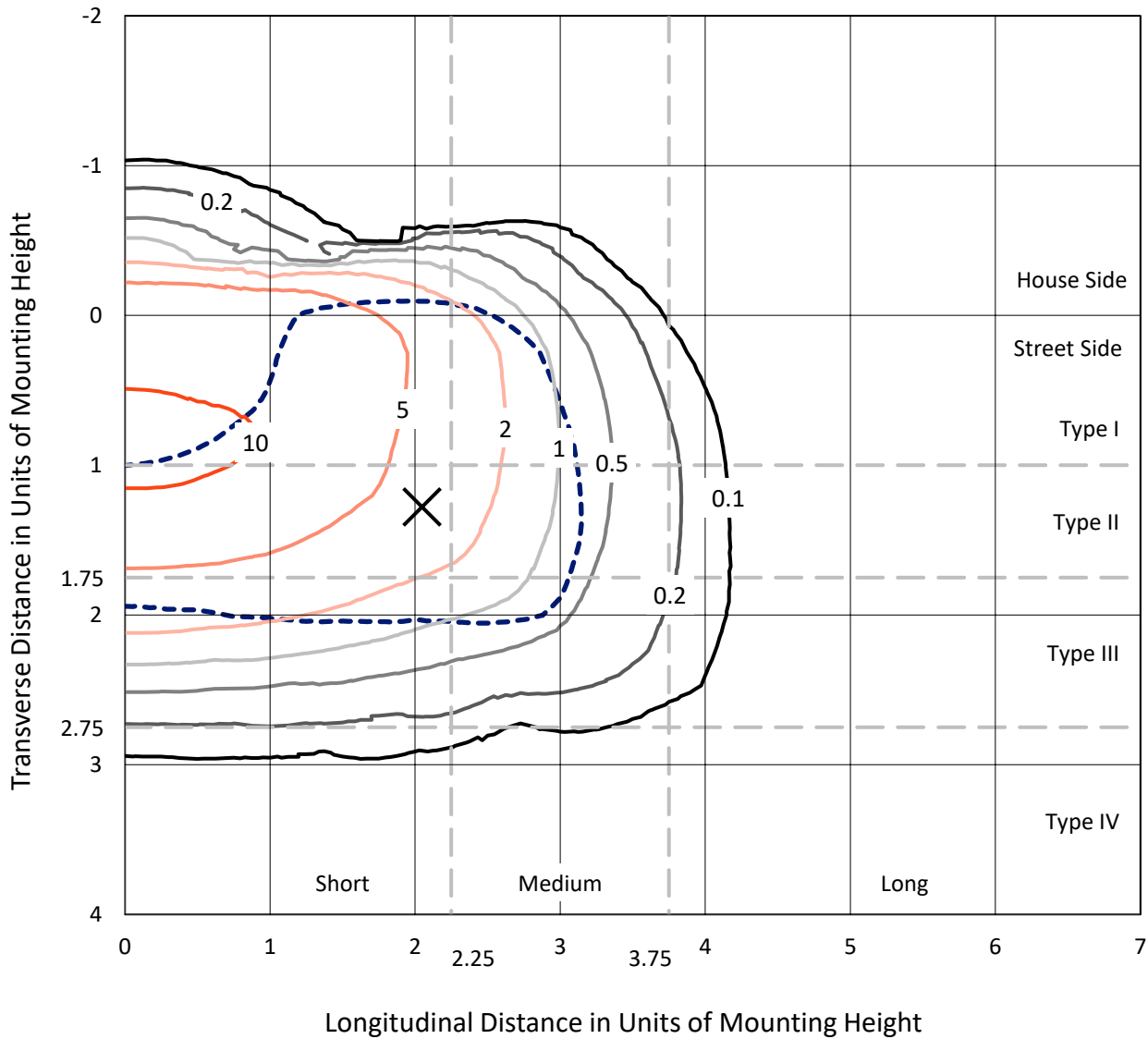
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

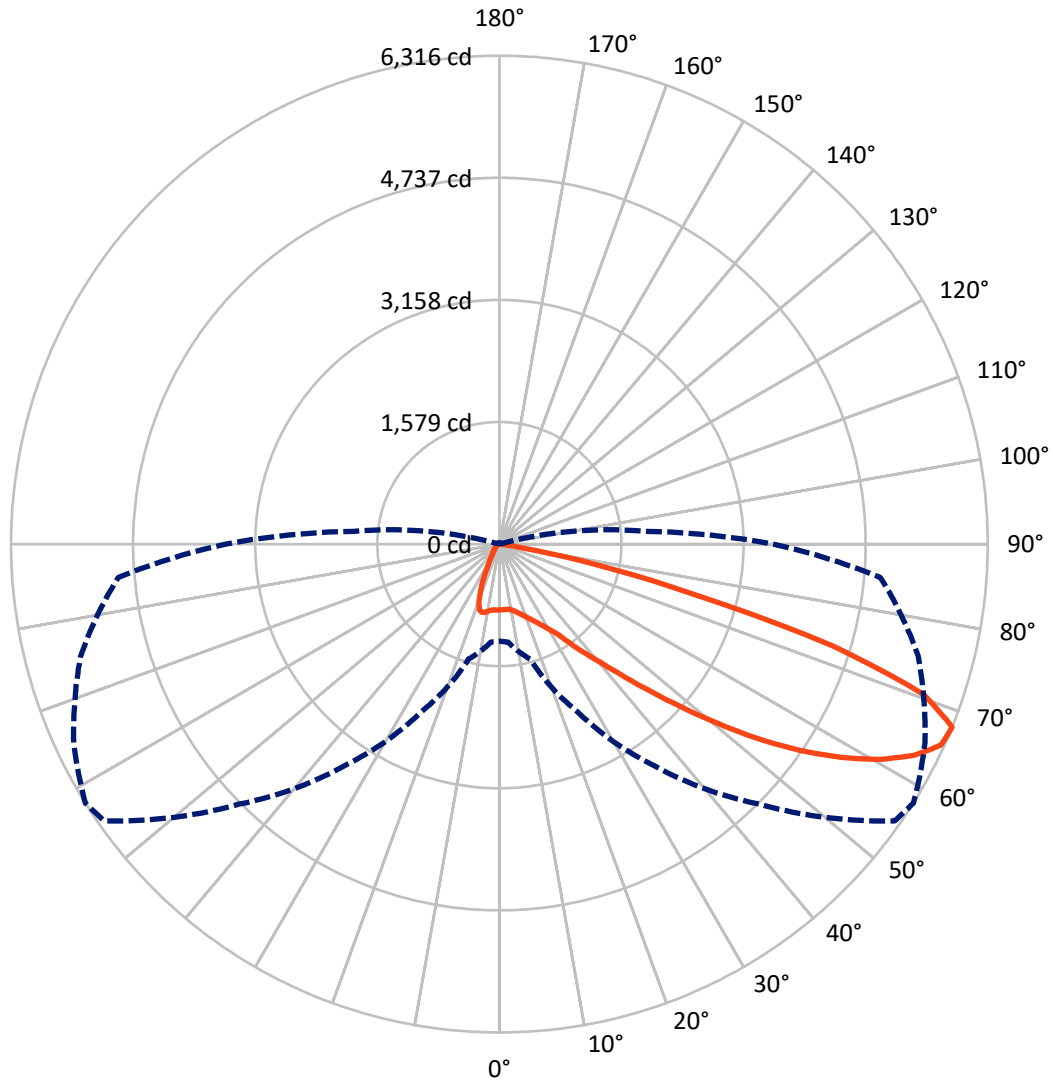
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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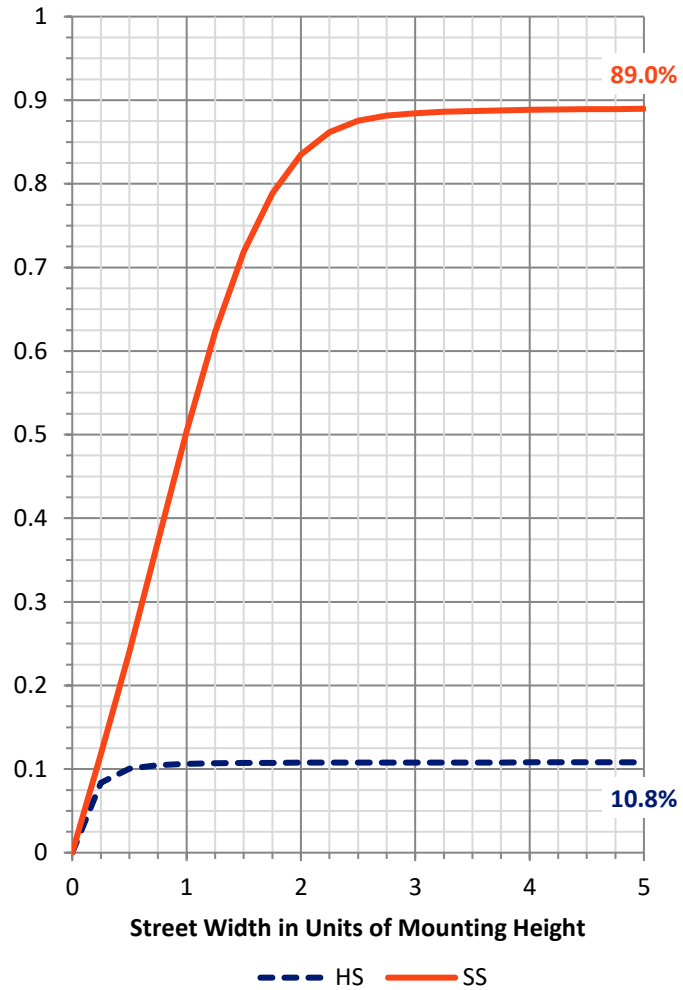
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 851.6 | 0.0 | 851.6 |
| | % Fixture | 10.9 | 0.0 | 10.9 |
| Street Side | Lumens | 6954.2 | 0.0 | 6954.2 |
| | % Fixture | 89.1 | 0.0 | 89.1 |
| Total | Lumens | 7805.8 | 0.0 | 7805.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 79.9 | 1.0 |
| 10°-20° | 224.3 | 2.9 |
| 20°-30° | 391.6 | 5.0 |
| 30°-40° | 699.4 | 9.0 |
| 40°-50° | 1278.3 | 16.4 |
| 50°-60° | 2125.9 | 27.2 |
| 60°-70° | 2309.1 | 29.6 |
| 70°-80° | 678.0 | 8.7 |
| 80°-90° | 19.3 | 0.2 |
| 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° | 7805.8 | 100.0 |
| 0°-180° | 7805.8 | 100.0 |

Coefficient of Utilization



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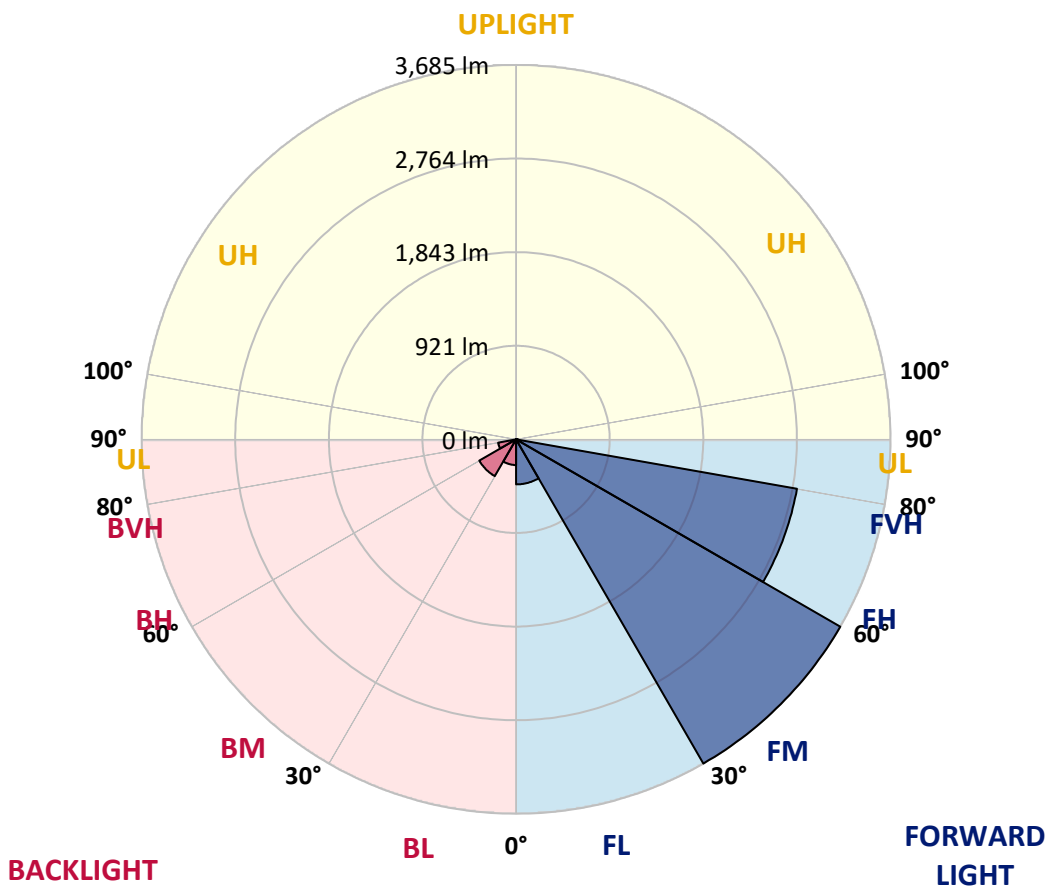
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 443.2 | 5.7 | | | |
| FM (30°-60°) | 3685.3 | 47.2 | | | |
| FH (60°-80°) | 2807.3 | 36.0 | | | G2/5000 |
| FVH (80°-90°) | 18.4 | 0.2 | | | G1/100 |
| BL (0°-30°) | 252.6 | 3.2 | B1/500 | | |
| BM (30°-60°) | 418.3 | 5.4 | B1/1000 | | |
| BH (60°-80°) | 179.8 | 2.3 | B1/500 | | G1/500 |
| 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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 850.6 | 850.6 | 850.6 | 850.6 | 850.6 | 850.6 | 850.6 | 850.6 | 850.6 | 850.6 | 850.6 |
| 2.5° | 834.6 | 833.1 | 833.1 | 839.2 | 839.9 | 843.0 | 849.8 | 850.6 | 854.4 | 852.9 | 847.6 |
| 5° | 791.1 | 791.9 | 796.5 | 807.2 | 816.3 | 827.7 | 844.5 | 848.3 | 856.7 | 861.3 | 858.2 |
| 7.5° | 750.8 | 751.5 | 758.4 | 775.1 | 792.7 | 815.5 | 843.0 | 850.6 | 867.4 | 879.6 | 880.3 |
| 10° | 735.5 | 734.7 | 741.6 | 760.7 | 783.5 | 815.5 | 855.2 | 865.1 | 890.2 | 911.6 | 915.4 |
| 12.5° | 740.1 | 739.3 | 746.2 | 763.7 | 788.9 | 829.3 | 876.5 | 890.2 | 922.2 | 955.0 | 961.9 |
| 15° | 758.4 | 757.6 | 762.2 | 776.7 | 804.1 | 846.0 | 904.0 | 924.5 | 964.9 | 1004.6 | 1015.2 |
| 17.5° | 813.3 | 809.4 | 804.9 | 806.4 | 822.4 | 865.8 | 939.0 | 964.2 | 1014.5 | 1061.7 | 1070.9 |
| 20° | 910.8 | 900.9 | 888.7 | 872.7 | 865.1 | 894.8 | 979.4 | 1008.4 | 1069.3 | 1123.5 | 1125.0 |
| 22.5° | 1057.9 | 1054.1 | 1025.9 | 979.4 | 946.6 | 947.4 | 1026.7 | 1060.2 | 1134.9 | 1194.3 | 1186.0 |
| 25° | 1262.9 | 1260.7 | 1217.2 | 1141.0 | 1055.6 | 1026.7 | 1086.9 | 1121.2 | 1212.6 | 1275.9 | 1249.2 |
| 27.5° | 1517.5 | 1501.5 | 1450.4 | 1347.5 | 1220.3 | 1129.6 | 1163.1 | 1193.6 | 1295.0 | 1354.4 | 1304.1 |
| 30° | 1739.3 | 1740.1 | 1692.1 | 1584.6 | 1441.3 | 1284.3 | 1256.1 | 1282.8 | 1370.4 | 1432.9 | 1371.9 |
| 32.5° | 1952.7 | 1959.6 | 1907.0 | 1810.2 | 1653.2 | 1486.3 | 1389.5 | 1394.0 | 1467.2 | 1535.0 | 1461.1 |
| 35° | 2150.9 | 2156.2 | 2119.6 | 2037.3 | 1891.0 | 1697.4 | 1575.4 | 1573.2 | 1612.8 | 1682.1 | 1585.3 |
| 37.5° | 2372.7 | 2378.0 | 2342.2 | 2268.3 | 2131.1 | 1939.0 | 1786.6 | 1783.5 | 1799.5 | 1855.9 | 1745.4 |
| 40° | 2609.0 | 2618.9 | 2579.2 | 2516.7 | 2385.6 | 2223.3 | 2032.0 | 2004.5 | 1988.5 | 2054.9 | 1952.7 |
| 42.5° | 2848.3 | 2863.5 | 2849.8 | 2787.3 | 2675.3 | 2541.1 | 2350.6 | 2307.9 | 2273.6 | 2356.7 | 2248.4 |
| 45° | 3145.5 | 3163.8 | 3157.7 | 3109.7 | 3022.8 | 2913.8 | 2734.0 | 2684.4 | 2668.4 | 2745.4 | 2616.6 |
| 47.5° | 3431.4 | 3451.2 | 3473.3 | 3462.6 | 3400.9 | 3350.6 | 3150.9 | 3122.7 | 3118.1 | 3200.4 | 3000.7 |
| 50° | 3644.0 | 3662.3 | 3746.9 | 3807.9 | 3849.8 | 3839.1 | 3666.1 | 3624.2 | 3617.3 | 3669.9 | 3406.2 |
| 52.5° | 3796.4 | 3814.0 | 3930.6 | 4121.1 | 4275.1 | 4358.9 | 4184.4 | 4175.3 | 4137.9 | 4119.6 | 3785.8 |
| 55° | 3914.6 | 3939.0 | 4061.7 | 4349.8 | 4660.0 | 4846.0 | 4737.0 | 4704.2 | 4608.2 | 4503.0 | 4137.9 |
| 57.5° | 3938.2 | 3948.1 | 4121.1 | 4509.9 | 4958.8 | 5259.8 | 5259.8 | 5202.7 | 5017.5 | 4871.9 | 4544.9 |
| 60° | 3726.3 | 3756.8 | 3990.8 | 4496.9 | 5086.8 | 5530.4 | 5693.5 | 5653.9 | 5403.9 | 5224.8 | 4936.7 |
| 62.5° | 3256.1 | 3290.4 | 3575.4 | 4186.7 | 4958.8 | 5586.1 | 6022.0 | 6015.9 | 5733.9 | 5516.7 | 5261.4 |
| 65° | 2496.9 | 2522.1 | 2770.5 | 3502.2 | 4417.6 | 5371.9 | 6256.8 | 6273.5 | 5994.6 | 5709.5 | 5373.4 |
| 67.5° | 1254.6 | 1272.1 | 1540.4 | 2392.5 | 3501.5 | 4755.3 | 6240.8 | 6315.5 | 6073.9 | 5607.4 | 4945.8 |
| 70° | 438.3 | 455.8 | 582.3 | 1026.7 | 2131.1 | 3631.1 | 5701.1 | 5823.1 | 5608.2 | 4786.5 | 3648.6 |
| 72.5° | 150.2 | 158.5 | 241.6 | 381.1 | 829.3 | 2152.4 | 4335.3 | 4519.0 | 4134.1 | 3213.4 | 2096.8 |
| 75° | 85.4 | 90.7 | 129.6 | 206.6 | 347.6 | 708.1 | 2459.6 | 2572.4 | 2410.0 | 1751.5 | 862.8 |
| 77.5° | 57.9 | 62.5 | 80.8 | 117.4 | 192.1 | 227.9 | 1003.0 | 1262.9 | 1101.4 | 571.6 | 220.3 |
| 80° | 34.3 | 37.3 | 49.5 | 69.4 | 98.3 | 88.4 | 214.9 | 285.8 | 368.1 | 170.7 | 66.3 |
| 82.5° | 16.0 | 18.3 | 32.0 | 45.7 | 49.5 | 37.3 | 63.3 | 77.0 | 103.7 | 83.8 | 27.4 |
| 85° | 0.0 | 0.0 | 10.7 | 19.1 | 18.3 | 10.7 | 17.5 | 19.1 | 28.2 | 41.9 | 10.7 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 1.5 | 2.3 | 4.6 | 8.4 | 4.6 |
| 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° | 850.6 | 850.6 | 850.6 | 850.6 | 850.6 | 850.6 | 850.6 | 850.6 | 850.6 | 850.6 | 850.6 |
| 2.5° | 853.6 | 848.3 | 854.4 | 851.4 | 854.4 | 853.6 | 847.6 | 843.7 | 843.7 | 836.9 | 834.6 |
| 5° | 864.3 | 859.0 | 860.5 | 853.6 | 852.1 | 848.3 | 840.7 | 837.6 | 837.6 | 830.8 | 828.5 |
| 7.5° | 887.9 | 879.6 | 878.0 | 864.3 | 858.2 | 847.6 | 833.8 | 828.5 | 827.7 | 820.9 | 818.6 |
| 10° | 925.3 | 915.4 | 908.5 | 891.0 | 873.5 | 852.1 | 823.2 | 798.8 | 785.1 | 766.8 | 765.2 |
| 12.5° | 971.0 | 958.8 | 948.2 | 921.5 | 892.5 | 844.5 | 759.1 | 670.0 | 615.1 | 571.6 | 574.7 |
| 15° | 1022.1 | 1010.7 | 993.9 | 953.5 | 894.0 | 769.0 | 590.7 | 453.5 | 386.4 | 350.6 | 349.1 |
| 17.5° | 1077.7 | 1061.0 | 1033.5 | 978.6 | 846.0 | 587.6 | 384.1 | 271.3 | 236.3 | 224.1 | 221.0 |
| 20° | 1129.6 | 1109.0 | 1074.7 | 984.0 | 707.3 | 397.9 | 240.1 | 210.4 | 204.3 | 200.5 | 200.5 |
| 22.5° | 1184.4 | 1158.5 | 1107.5 | 942.8 | 525.9 | 254.6 | 204.3 | 197.4 | 192.8 | 187.5 | 186.7 |
| 25° | 1240.1 | 1206.5 | 1137.2 | 835.4 | 344.5 | 200.5 | 191.3 | 183.7 | 175.3 | 166.9 | 164.6 |
| 27.5° | 1287.3 | 1243.9 | 1160.0 | 675.3 | 221.0 | 180.6 | 174.5 | 161.6 | 150.2 | 141.0 | 139.5 |
| 30° | 1343.7 | 1288.1 | 1170.0 | 493.9 | 173.8 | 159.3 | 150.2 | 136.4 | 122.7 | 113.6 | 110.5 |
| 32.5° | 1419.2 | 1358.2 | 1154.7 | 321.6 | 154.0 | 140.2 | 125.8 | 109.8 | 96.0 | 86.1 | 84.6 |
| 35° | 1536.6 | 1464.2 | 1084.6 | 205.0 | 139.5 | 121.2 | 103.7 | 86.9 | 75.5 | 67.8 | 66.3 |
| 37.5° | 1679.9 | 1612.8 | 969.5 | 154.0 | 125.0 | 105.2 | 84.6 | 68.6 | 60.2 | 54.9 | 53.4 |
| 40° | 1892.5 | 1798.8 | 827.0 | 134.9 | 110.5 | 89.2 | 69.4 | 56.4 | 50.3 | 45.7 | 44.2 |
| 42.5° | 2168.4 | 2018.3 | 663.1 | 122.7 | 96.8 | 74.7 | 56.4 | 46.5 | 41.2 | 38.1 | 37.3 |
| 45° | 2490.8 | 2232.4 | 490.1 | 110.5 | 83.8 | 61.7 | 46.5 | 38.1 | 34.3 | 32.0 | 31.2 |
| 47.5° | 2820.8 | 2419.9 | 338.4 | 97.6 | 71.6 | 51.1 | 38.9 | 32.8 | 29.7 | 26.7 | 25.9 |
| 50° | 3173.0 | 2578.5 | 230.9 | 84.6 | 61.0 | 41.9 | 33.5 | 29.7 | 25.9 | 23.6 | 22.9 |
| 52.5° | 3431.4 | 2637.2 | 160.8 | 73.2 | 51.8 | 35.8 | 29.7 | 26.7 | 23.6 | 20.6 | 19.8 |
| 55° | 3669.9 | 2635.6 | 121.9 | 61.7 | 44.2 | 31.2 | 26.7 | 23.6 | 20.6 | 18.3 | 17.5 |
| 57.5° | 3907.7 | 2615.1 | 96.0 | 52.6 | 38.1 | 28.2 | 23.6 | 20.6 | 19.1 | 16.0 | 15.2 |
| 60° | 4061.7 | 2537.3 | 74.7 | 44.2 | 32.8 | 24.4 | 20.6 | 18.3 | 16.0 | 13.7 | 13.0 |
| 62.5° | 4143.2 | 2429.1 | 57.2 | 35.1 | 26.7 | 21.3 | 18.3 | 16.0 | 13.7 | 11.4 | 10.7 |
| 65° | 4032.7 | 2237.0 | 45.0 | 27.4 | 20.6 | 18.3 | 15.2 | 13.0 | 10.7 | 8.4 | 7.6 |
| 67.5° | 3542.6 | 1886.4 | 35.1 | 22.1 | 16.0 | 13.7 | 13.0 | 10.7 | 7.6 | 6.1 | 5.3 |
| 70° | 2503.8 | 1291.9 | 27.4 | 16.8 | 12.2 | 10.7 | 9.9 | 8.4 | 6.1 | 4.6 | 3.8 |
| 72.5° | 1374.2 | 651.7 | 19.8 | 12.2 | 9.1 | 8.4 | 7.6 | 6.9 | 5.3 | 3.8 | 3.8 |
| 75° | 529.0 | 179.1 | 14.5 | 8.4 | 6.1 | 6.1 | 5.3 | 5.3 | 4.6 | 3.0 | 3.0 |
| 77.5° | 138.0 | 53.4 | 9.1 | 5.3 | 3.8 | 3.8 | 3.8 | 3.0 | 3.0 | 2.3 | 2.3 |
| 80° | 44.2 | 17.5 | 5.3 | 3.8 | 3.0 | 2.3 | 2.3 | 1.5 | 2.3 | 1.5 | 1.5 |
| 82.5° | 14.5 | 6.1 | 3.0 | 3.0 | 2.3 | 1.5 | 1.5 | 0.8 | 0.8 | 0.0 | 0.0 |
| 85° | 5.3 | 3.0 | 2.3 | 1.5 | 1.5 | 1.5 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 3.0 | 1.5 | 1.5 | 1.5 | 1.5 | 0.8 | 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)