

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: P640151

Luminaire Tested: GWS-SA5D-730-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640151
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-730-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23983.7 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

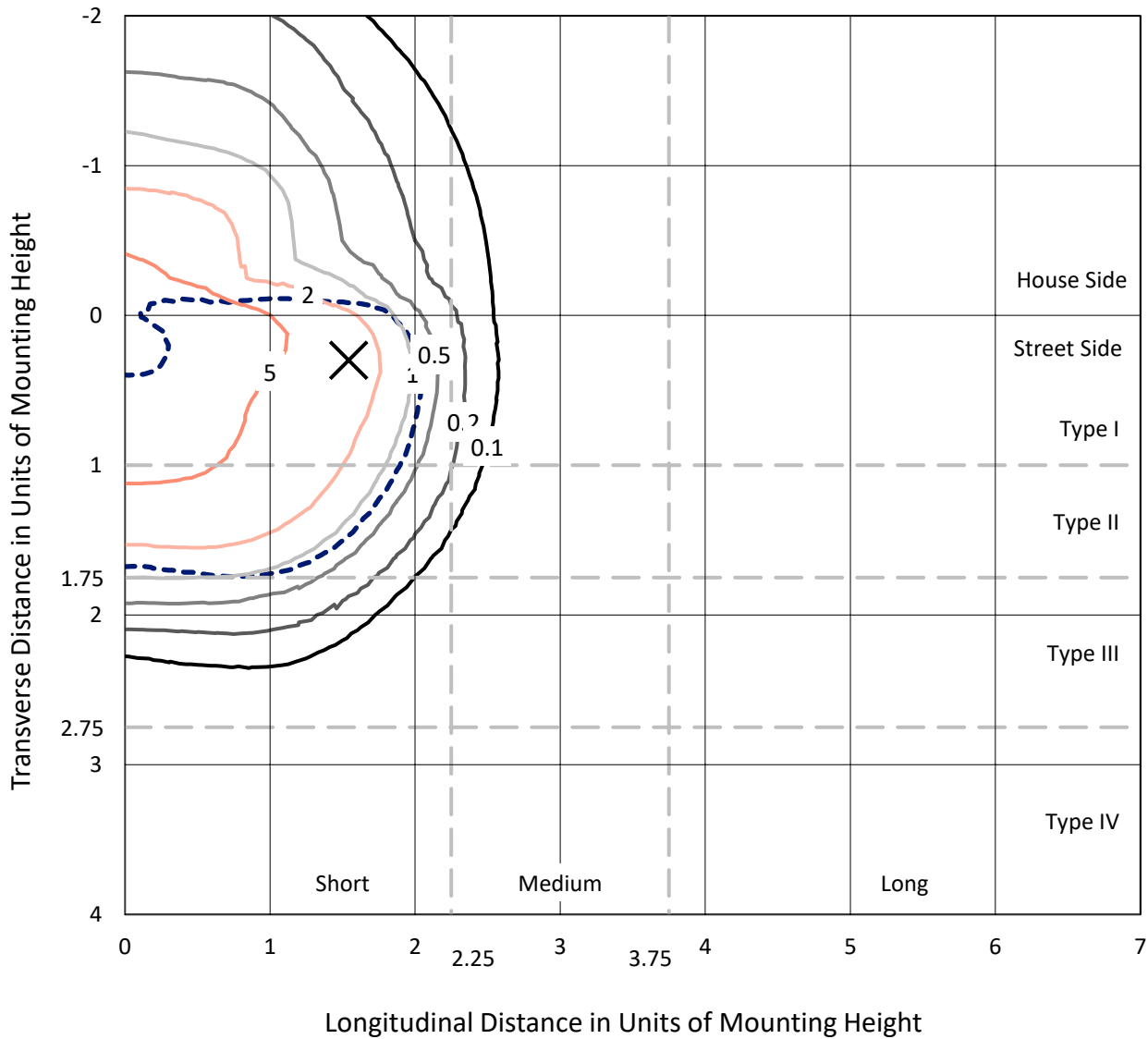
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

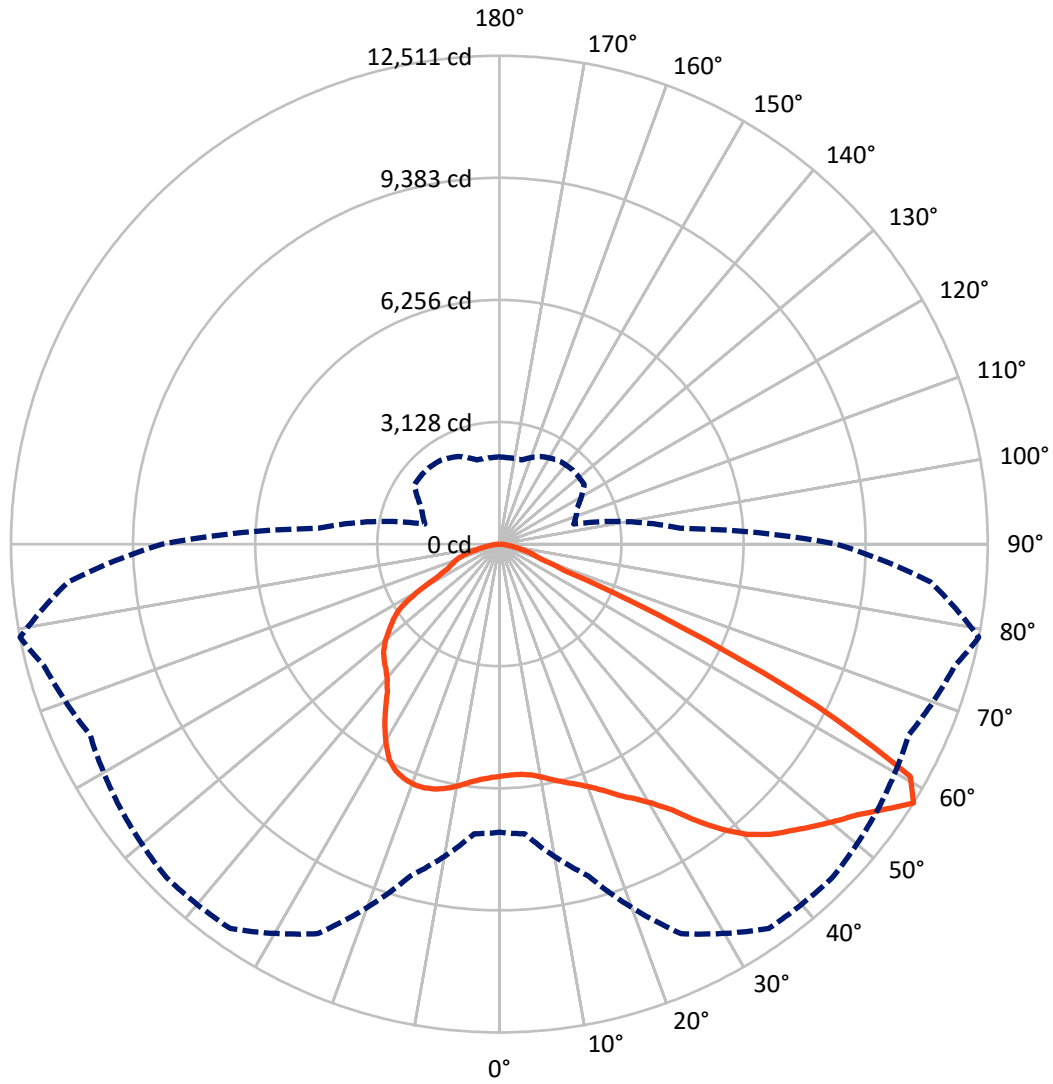
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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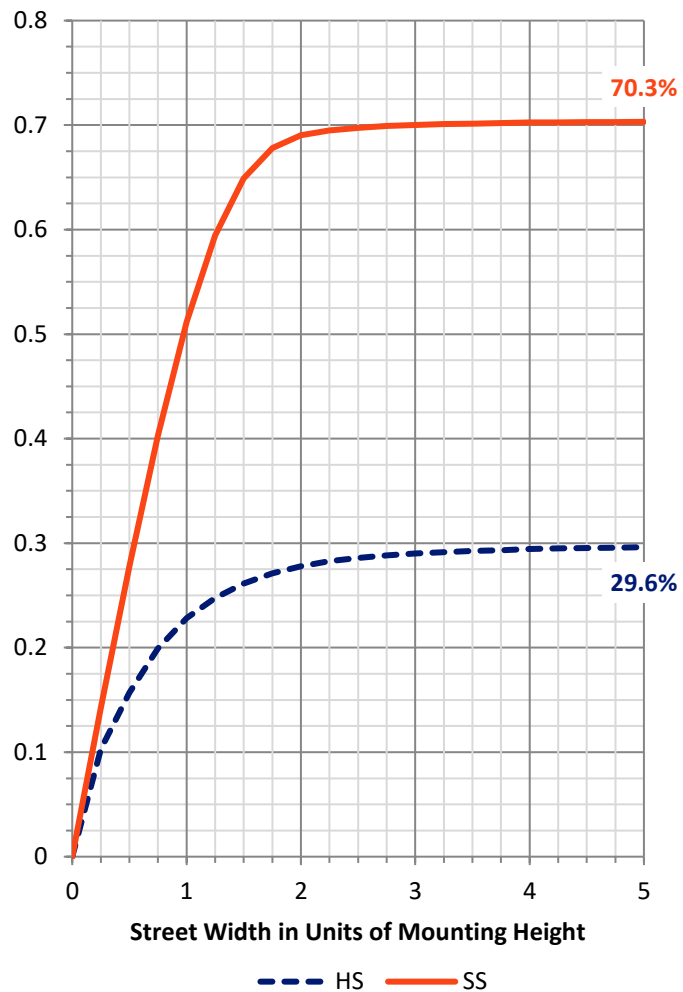
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7129.2 | 0.0 | 7129.2 |
| | % Fixture | 29.7 | 0.0 | 29.7 |
| Street Side | Lumens | 16854.5 | 0.0 | 16854.5 |
| | % Fixture | 70.3 | 0.0 | 70.3 |
| Total | Lumens | 23983.7 | 0.0 | 23983.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 550.4 | 2.3 |
| 10°-20° | 1529.7 | 6.4 |
| 20°-30° | 2592.9 | 10.8 |
| 30°-40° | 3968.7 | 16.5 |
| 40°-50° | 5291.9 | 22.1 |
| 50°-60° | 6111.7 | 25.5 |
| 60°-70° | 3175.9 | 13.2 |
| 70°-80° | 675.1 | 2.8 |
| 80°-90° | 87.4 | 0.4 |
| 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° | 23983.7 | 100.0 |
| 0°-180° | 23983.7 | 100.0 |

Coefficient of Utilization



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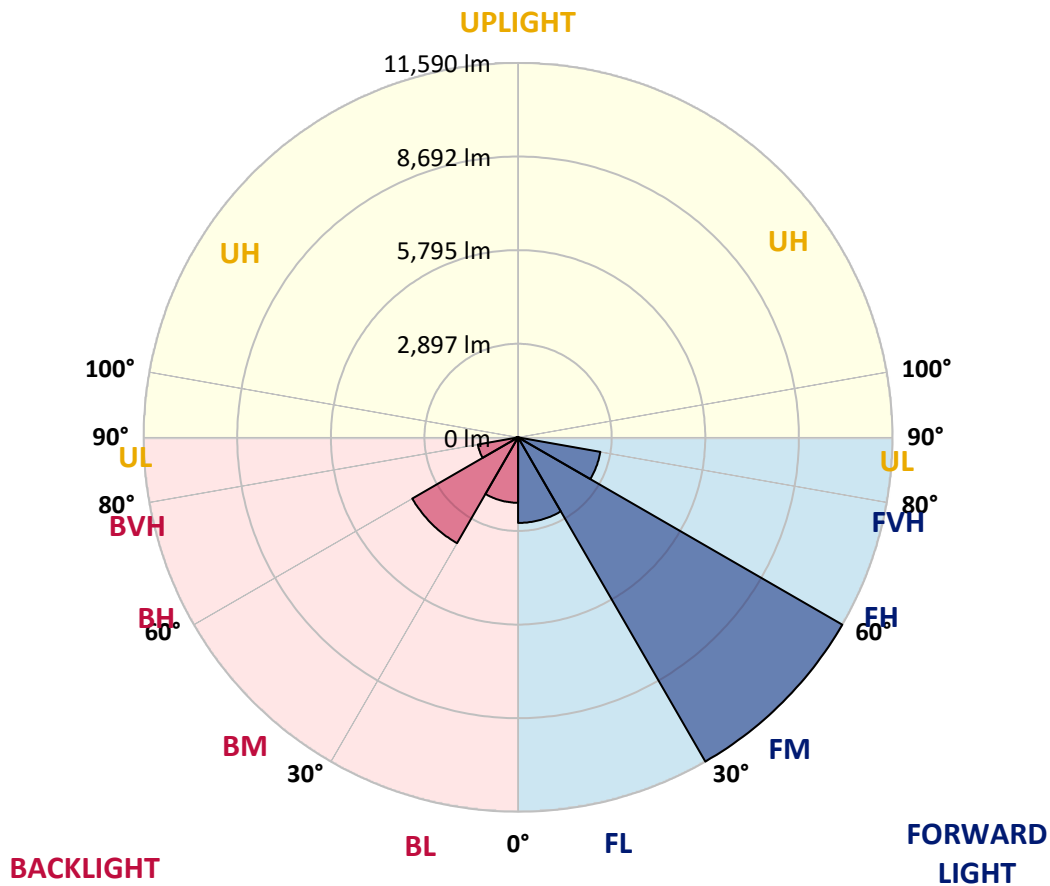
CATALOG NUMBER: GWS-SA5D-730-U-T3R-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2648.3 | 11.0 | | | |
| FM (30°-60°) | 11589.6 | 48.3 | | | |
| FH (60°-80°) | 2586.0 | 10.8 | | | G2/5000 |
| FVH (80°-90°) | 30.5 | 0.1 | | | G1/100 |
| BL (0°-30°) | 2024.6 | 8.4 | B3/2500 | | |
| BM (30°-60°) | 3782.7 | 15.8 | B3/5000 | | |
| BH (60°-80°) | 1264.9 | 5.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 57.0 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 79° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5943.7 | 5943.7 | 5943.7 | 5943.7 | 5943.7 | 5943.7 | 5943.7 | 5943.7 | 5943.7 | 5943.7 | 5943.7 |
| 2.5° | 5673.1 | 5661.3 | 5665.3 | 5680.9 | 5739.8 | 5782.9 | 5828.0 | 5869.2 | 5908.4 | 5920.2 | 5930.0 |
| 5° | 5471.1 | 5449.5 | 5455.4 | 5480.9 | 5549.6 | 5622.1 | 5702.5 | 5800.6 | 5894.7 | 5926.1 | 5967.2 |
| 7.5° | 5328.0 | 5324.0 | 5333.9 | 5373.1 | 5445.6 | 5514.3 | 5618.2 | 5757.4 | 5920.2 | 5973.1 | 6045.7 |
| 10° | 5137.8 | 5129.9 | 5169.1 | 5249.5 | 5369.1 | 5479.0 | 5602.5 | 5767.2 | 5994.7 | 6073.1 | 6184.9 |
| 12.5° | 4986.8 | 4982.8 | 5024.0 | 5135.8 | 5288.7 | 5463.3 | 5633.9 | 5818.2 | 6094.7 | 6202.6 | 6339.8 |
| 15° | 5075.0 | 5057.4 | 5059.3 | 5137.8 | 5275.0 | 5480.9 | 5712.3 | 5910.4 | 6194.7 | 6332.0 | 6508.5 |
| 17.5° | 5331.9 | 5300.5 | 5277.0 | 5290.7 | 5369.1 | 5582.9 | 5831.9 | 6033.9 | 6310.4 | 6471.2 | 6686.9 |
| 20° | 5686.8 | 5669.2 | 5604.5 | 5561.3 | 5579.0 | 5767.2 | 6020.2 | 6208.4 | 6461.4 | 6641.8 | 6873.2 |
| 22.5° | 6163.3 | 6120.2 | 6032.0 | 5963.3 | 5910.4 | 6057.5 | 6290.8 | 6453.6 | 6671.2 | 6859.5 | 7100.7 |
| 25° | 6753.6 | 6690.8 | 6551.6 | 6443.8 | 6330.0 | 6481.0 | 6688.9 | 6812.4 | 6959.5 | 7134.0 | 7363.5 |
| 27.5° | 7355.6 | 7302.7 | 7147.8 | 7002.6 | 6861.5 | 6955.6 | 7202.7 | 7273.3 | 7257.6 | 7385.0 | 7581.1 |
| 30° | 7996.9 | 7930.2 | 7783.1 | 7626.2 | 7443.9 | 7504.7 | 7726.2 | 7761.5 | 7594.9 | 7700.7 | 7834.1 |
| 32.5° | 8673.4 | 8608.7 | 8481.2 | 8298.8 | 8092.9 | 8116.5 | 8177.3 | 8210.6 | 8051.8 | 8112.6 | 8214.5 |
| 35° | 9361.7 | 9300.9 | 9171.5 | 8991.1 | 8840.1 | 8696.9 | 8544.0 | 8677.3 | 8585.1 | 8702.8 | 8695.0 |
| 37.5° | 9991.2 | 9930.4 | 9850.0 | 9710.7 | 9451.9 | 9169.5 | 8816.5 | 8981.3 | 9124.4 | 9273.5 | 9248.0 |
| 40° | 10416.7 | 10375.5 | 10395.1 | 10373.6 | 10040.2 | 9481.3 | 8949.9 | 9130.3 | 9520.5 | 9775.5 | 9761.7 |
| 42.5° | 10783.4 | 10742.2 | 10856.0 | 10938.3 | 10546.1 | 9769.6 | 9014.6 | 9187.2 | 9773.5 | 10171.6 | 10152.0 |
| 45° | 10946.2 | 10934.4 | 11122.7 | 11383.5 | 11008.9 | 10075.5 | 9181.3 | 9304.8 | 9965.7 | 10475.5 | 10401.0 |
| 47.5° | 10752.0 | 10793.2 | 11163.8 | 11605.1 | 11393.3 | 10438.3 | 9522.5 | 9553.9 | 10216.7 | 10805.0 | 10595.1 |
| 50° | 10365.7 | 10455.9 | 10956.0 | 11610.9 | 11673.7 | 10848.1 | 9995.1 | 9916.7 | 10554.0 | 11156.0 | 10697.1 |
| 52.5° | 9802.9 | 9897.0 | 10712.8 | 11565.8 | 11834.5 | 11322.7 | 10624.6 | 10512.8 | 10979.5 | 11507.0 | 10714.8 |
| 55° | 8510.6 | 8638.1 | 10155.9 | 11463.9 | 11991.4 | 11754.1 | 11334.4 | 11107.0 | 11528.6 | 11989.4 | 10889.3 |
| 57.5° | 7383.1 | 7449.7 | 8798.9 | 11010.9 | 12022.7 | 12071.8 | 11840.4 | 11569.8 | 12073.7 | 12511.0 | 11085.4 |
| 60° | 5418.2 | 5433.9 | 6647.7 | 9110.7 | 11059.9 | 11887.4 | 11799.2 | 11397.2 | 11814.9 | 12093.3 | 10187.3 |
| 62.5° | 3061.1 | 3063.0 | 4031.8 | 6081.0 | 8261.6 | 9689.2 | 9744.1 | 9389.1 | 9038.1 | 9120.5 | 7090.9 |
| 65° | 1149.1 | 1257.0 | 1841.4 | 2988.5 | 4763.2 | 5720.2 | 5947.6 | 6030.0 | 5445.6 | 5082.8 | 3802.3 |
| 67.5° | 768.7 | 794.2 | 1074.6 | 1537.4 | 2119.8 | 2447.3 | 2737.5 | 2745.4 | 2008.0 | 1790.4 | 1498.2 |
| 70° | 586.3 | 611.8 | 845.2 | 1100.1 | 1074.6 | 992.3 | 1072.7 | 1043.2 | 1078.5 | 1108.0 | 1139.3 |
| 72.5° | 437.3 | 462.8 | 655.0 | 776.5 | 645.2 | 635.4 | 719.7 | 800.1 | 874.6 | 906.0 | 955.0 |
| 75° | 290.2 | 309.8 | 441.2 | 415.7 | 356.9 | 421.6 | 525.5 | 605.9 | 649.1 | 686.3 | 723.6 |
| 77.5° | 184.3 | 198.1 | 235.3 | 190.2 | 198.1 | 247.1 | 305.9 | 378.5 | 419.6 | 456.9 | 476.5 |
| 80° | 84.3 | 82.4 | 80.4 | 90.2 | 111.8 | 145.1 | 184.3 | 227.5 | 258.8 | 274.5 | 286.3 |
| 82.5° | 33.3 | 37.3 | 41.2 | 49.0 | 60.8 | 78.4 | 103.9 | 133.3 | 158.8 | 162.8 | 172.6 |
| 85° | 13.7 | 15.7 | 17.6 | 21.6 | 27.5 | 35.3 | 43.1 | 60.8 | 76.5 | 82.4 | 88.2 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 3.9 | 5.9 | 9.8 | 17.6 | 19.6 | 21.6 |
| 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° | 5943.7 | 5943.7 | 5943.7 | 5943.7 | 5943.7 | 5943.7 | 5943.7 | 5943.7 | 5943.7 | 5943.7 | 5943.7 |
| 2.5° | 5982.9 | 5957.4 | 6000.6 | 6030.0 | 6057.5 | 6028.0 | 6018.2 | 5992.7 | 5988.8 | 5988.8 | 6002.5 |
| 5° | 6037.8 | 6020.2 | 6065.3 | 6082.9 | 6081.0 | 6016.3 | 5977.1 | 5926.1 | 5900.6 | 5900.6 | 5904.5 |
| 7.5° | 6135.9 | 6126.1 | 6151.6 | 6124.1 | 6061.4 | 5930.0 | 5800.6 | 5692.7 | 5620.2 | 5582.9 | 5594.7 |
| 10° | 6298.7 | 6286.9 | 6265.3 | 6163.3 | 5982.9 | 5710.4 | 5445.6 | 5249.5 | 5131.9 | 5065.2 | 5069.1 |
| 12.5° | 6457.5 | 6437.9 | 6361.4 | 6135.9 | 5765.3 | 5331.9 | 4984.8 | 4765.2 | 4635.7 | 4557.3 | 4539.7 |
| 15° | 6632.0 | 6581.0 | 6416.3 | 5994.7 | 5410.3 | 4869.1 | 4506.3 | 4269.0 | 4129.8 | 4082.8 | 4080.8 |
| 17.5° | 6798.7 | 6708.5 | 6410.4 | 5743.7 | 4984.8 | 4384.7 | 4020.0 | 3872.9 | 3849.4 | 3871.0 | 3876.8 |
| 20° | 6967.3 | 6822.2 | 6345.7 | 5396.6 | 4478.9 | 3902.3 | 3714.1 | 3774.9 | 3863.1 | 3922.0 | 3935.7 |
| 22.5° | 7141.9 | 6916.4 | 6198.6 | 4949.5 | 3945.5 | 3576.8 | 3655.3 | 3788.6 | 3898.4 | 3976.9 | 3984.7 |
| 25° | 7338.0 | 7004.6 | 5979.0 | 4402.4 | 3518.0 | 3486.6 | 3641.5 | 3782.7 | 3900.4 | 3990.6 | 4006.3 |
| 27.5° | 7449.7 | 7006.6 | 5671.1 | 3839.6 | 3321.9 | 3451.3 | 3608.2 | 3741.5 | 3859.2 | 3957.2 | 3974.9 |
| 30° | 7559.6 | 6953.6 | 5182.9 | 3382.7 | 3265.0 | 3410.1 | 3551.3 | 3674.9 | 3786.6 | 3882.7 | 3904.3 |
| 32.5° | 7714.5 | 6904.6 | 4620.1 | 3119.9 | 3231.7 | 3370.9 | 3486.6 | 3596.4 | 3682.7 | 3725.9 | 3737.6 |
| 35° | 7906.7 | 6841.8 | 4022.0 | 3006.2 | 3210.1 | 3339.5 | 3441.5 | 3500.3 | 3388.6 | 3365.0 | 3390.5 |
| 37.5° | 8175.3 | 6783.0 | 3425.8 | 2957.2 | 3196.4 | 3327.8 | 3418.0 | 3267.0 | 3129.7 | 3074.8 | 3094.4 |
| 40° | 8465.5 | 6749.7 | 3021.9 | 2917.9 | 3202.3 | 3339.5 | 3319.9 | 3096.4 | 2898.3 | 2782.6 | 2778.7 |
| 42.5° | 8712.6 | 6698.7 | 2763.0 | 2892.4 | 3218.0 | 3384.6 | 3186.6 | 2945.4 | 2651.2 | 2582.6 | 2584.6 |
| 45° | 8879.3 | 6569.3 | 2625.7 | 2865.0 | 3231.7 | 3394.4 | 3123.8 | 2737.5 | 2527.7 | 2484.6 | 2482.6 |
| 47.5° | 8947.9 | 6333.9 | 2537.5 | 2821.8 | 3229.7 | 3314.0 | 2996.4 | 2651.2 | 2441.4 | 2429.6 | 2437.5 |
| 50° | 8902.8 | 5947.6 | 2447.3 | 2737.5 | 3182.7 | 3229.7 | 2849.3 | 2574.8 | 2382.6 | 2447.3 | 2494.4 |
| 52.5° | 8736.1 | 5447.6 | 2339.4 | 2621.8 | 3098.3 | 3133.6 | 2774.8 | 2527.7 | 2339.4 | 2425.7 | 2463.0 |
| 55° | 8693.0 | 5041.7 | 2202.2 | 2470.8 | 2972.8 | 2963.0 | 2696.3 | 2504.2 | 2310.0 | 2276.7 | 2282.6 |
| 57.5° | 8636.1 | 4645.5 | 1974.7 | 2200.2 | 2655.2 | 2670.8 | 2621.8 | 2476.7 | 2233.6 | 2223.7 | 2233.6 |
| 60° | 7502.7 | 3561.1 | 1761.0 | 1898.2 | 2180.6 | 2264.9 | 2537.5 | 2425.7 | 2110.0 | 2068.8 | 2066.9 |
| 62.5° | 4900.5 | 2157.1 | 1566.8 | 1655.1 | 1776.6 | 1874.7 | 2314.0 | 2278.7 | 1974.7 | 1949.2 | 1966.9 |
| 65° | 2635.6 | 1537.4 | 1425.6 | 1478.6 | 1545.2 | 1619.8 | 1917.8 | 2029.6 | 1784.5 | 1694.3 | 1696.2 |
| 67.5° | 1347.2 | 1308.0 | 1319.7 | 1357.0 | 1408.0 | 1445.2 | 1547.2 | 1645.3 | 1521.7 | 1445.2 | 1443.3 |
| 70° | 1153.1 | 1184.4 | 1202.1 | 1223.6 | 1257.0 | 1251.1 | 1260.9 | 1278.6 | 1268.8 | 1231.5 | 1229.5 |
| 72.5° | 982.4 | 1031.5 | 1035.4 | 1039.3 | 1051.1 | 1023.6 | 1006.0 | 976.6 | 978.5 | 984.4 | 986.4 |
| 75° | 747.1 | 794.2 | 806.0 | 800.1 | 811.8 | 776.5 | 753.0 | 723.6 | 688.3 | 682.4 | 686.3 |
| 77.5° | 486.3 | 523.6 | 541.2 | 537.3 | 543.2 | 515.7 | 504.0 | 472.6 | 431.4 | 415.7 | 415.7 |
| 80° | 294.1 | 315.7 | 329.4 | 333.4 | 339.2 | 319.6 | 300.0 | 272.6 | 254.9 | 237.3 | 237.3 |
| 82.5° | 178.4 | 192.2 | 202.0 | 202.0 | 207.9 | 186.3 | 170.6 | 151.0 | 143.2 | 127.5 | 127.5 |
| 85° | 90.2 | 100.0 | 103.9 | 102.0 | 98.0 | 80.4 | 74.5 | 64.7 | 60.8 | 52.9 | 52.9 |
| 87.5° | 21.6 | 27.5 | 27.5 | 19.6 | 19.6 | 9.8 | 5.9 | 2.0 | 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)