

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: P638225

Luminaire Tested: GWS-SA4E-735-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638225
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-735-U-T3R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18930.6 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

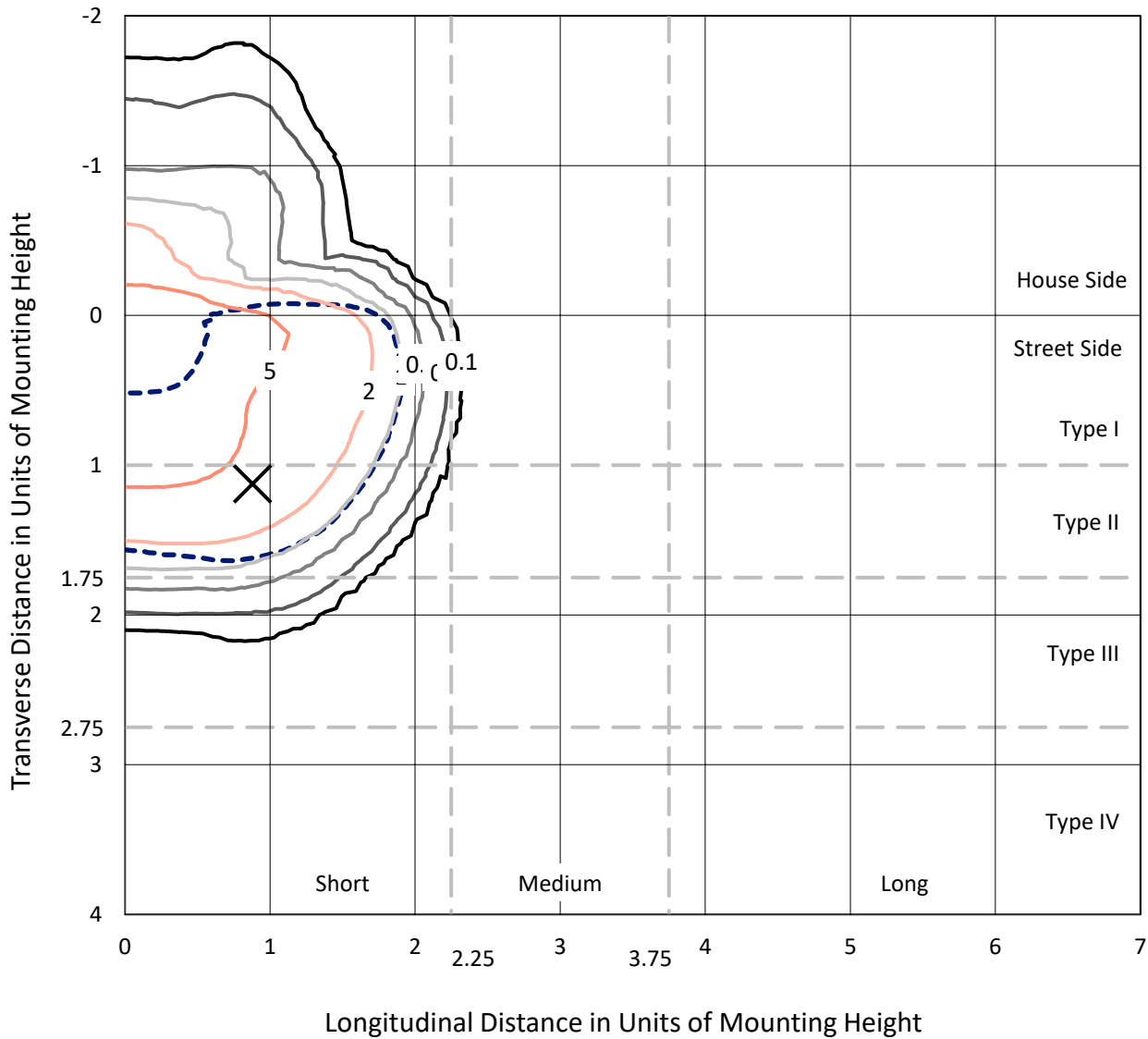
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

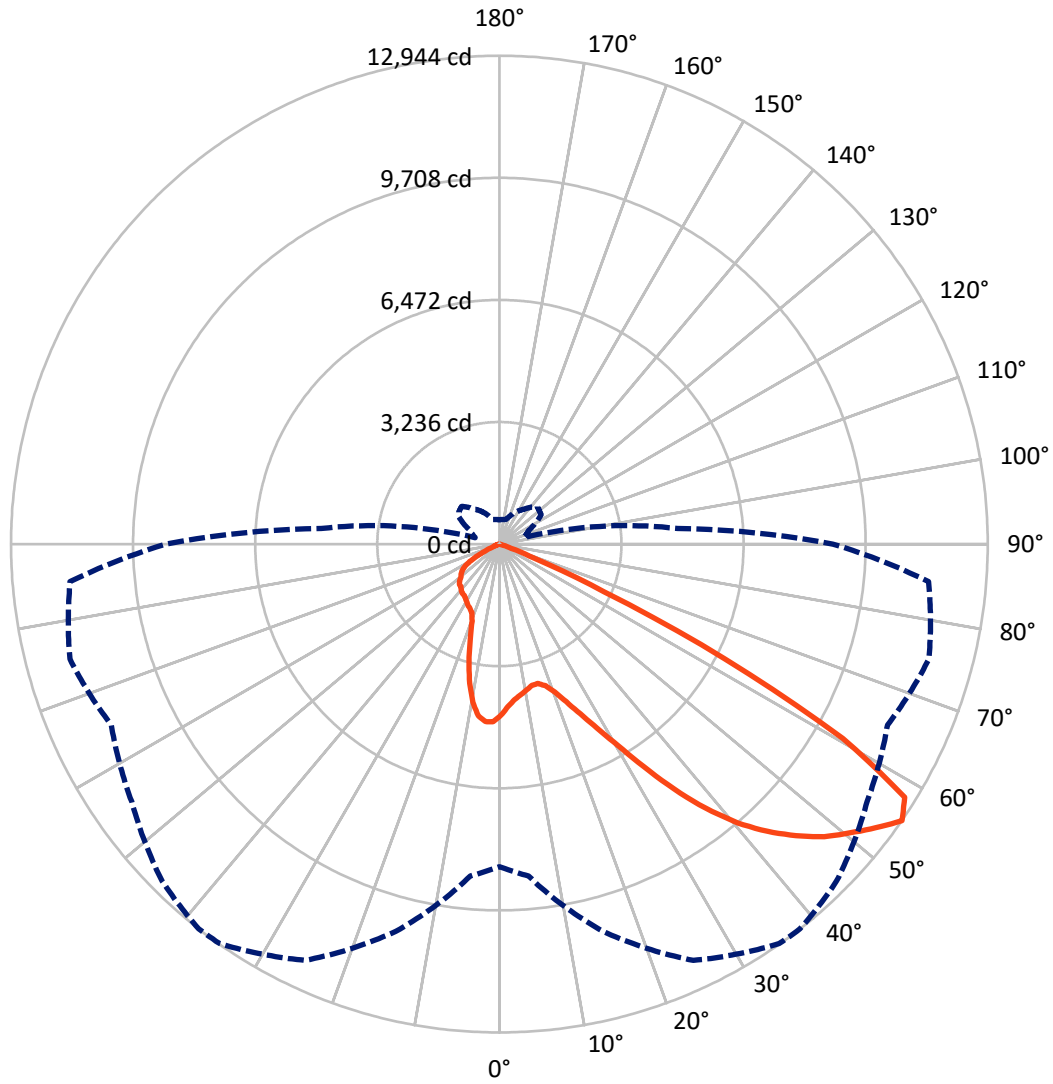
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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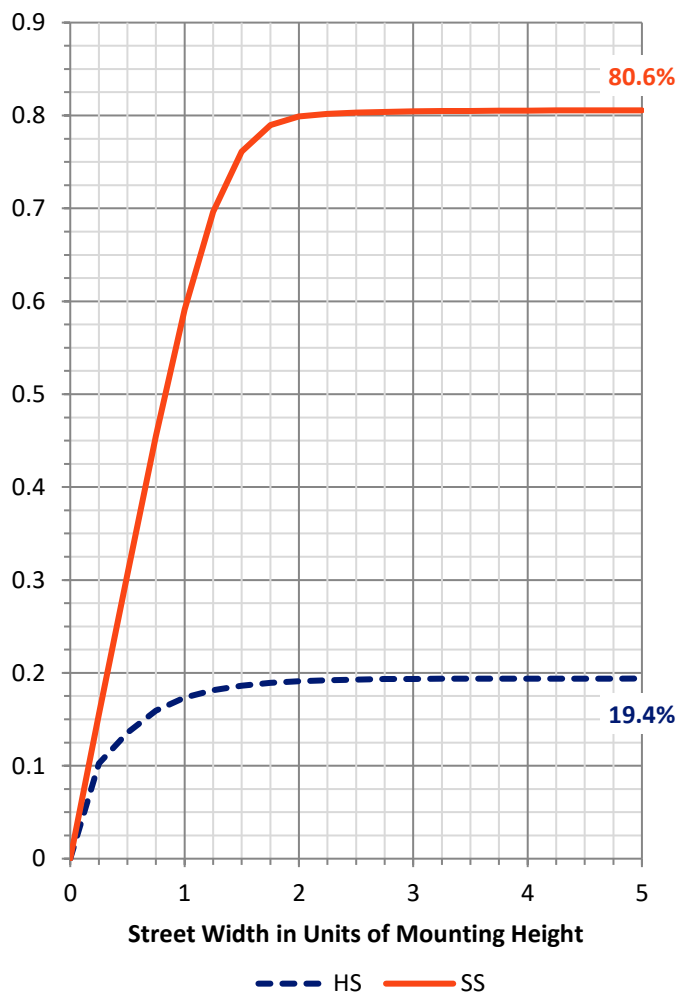
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3688.3 | 0.0 | 3688.3 |
| | % Fixture | 19.5 | 0.0 | 19.5 |
| Street Side | Lumens | 15242.3 | 0.0 | 15242.3 |
| | % Fixture | 80.5 | 0.0 | 80.5 |
| Total | Lumens | 18930.6 | 0.0 | 18930.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 419.8 | 2.2 |
| 10°-20° | 1130.0 | 6.0 |
| 20°-30° | 1939.2 | 10.2 |
| 30°-40° | 3216.3 | 17.0 |
| 40°-50° | 4728.1 | 25.0 |
| 50°-60° | 5524.9 | 29.2 |
| 60°-70° | 1872.8 | 9.9 |
| 70°-80° | 95.7 | 0.5 |
| 80°-90° | 3.8 | 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° | 18930.6 | 100.0 |
| 0°-180° | 18930.6 | 100.0 |

Coefficient of Utilization



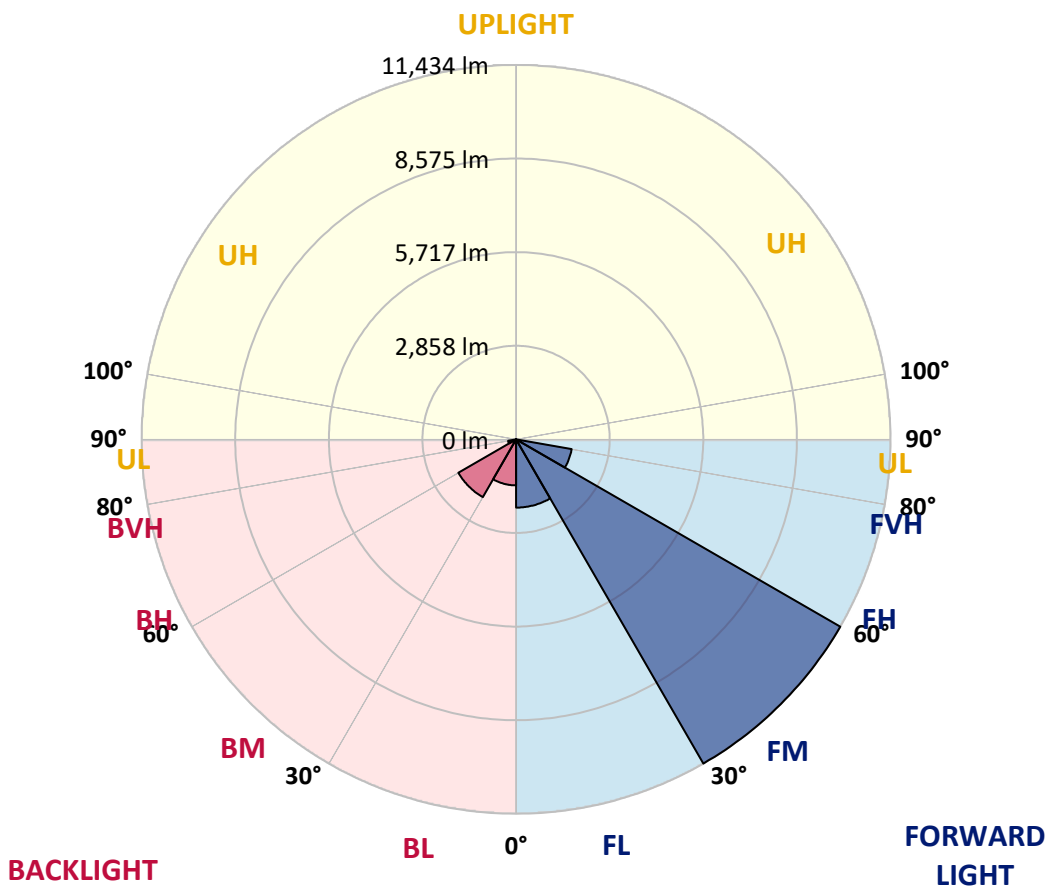
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2083.8 | 11.0 | | | |
| FM (30°-60°) | 11433.6 | 60.4 | | | |
| FH (60°-80°) | 1723.0 | 9.1 | | | G1/1800 |
| FVH (80°-90°) | 2.0 | 0.0 | | | G0/10 |
| BL (0°-30°) | 1405.2 | 7.4 | B3/2500 | | |
| BM (30°-60°) | 2035.8 | 10.8 | B2/2500 | | |
| BH (60°-80°) | 245.5 | 1.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.8 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 38° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4539.7 | 4539.7 | 4539.7 | 4539.7 | 4539.7 | 4539.7 | 4539.7 | 4539.7 | 4539.7 | 4539.7 | 4539.7 |
| 2.5° | 4228.1 | 4219.5 | 4236.8 | 4271.4 | 4303.8 | 4314.7 | 4347.1 | 4392.6 | 4420.7 | 4487.8 | 4541.9 |
| 5° | 4037.7 | 4033.4 | 4050.7 | 4081.0 | 4124.2 | 4139.4 | 4189.2 | 4264.9 | 4340.6 | 4457.5 | 4572.2 |
| 7.5° | 3864.6 | 3862.4 | 3888.4 | 3955.5 | 4018.2 | 4037.7 | 4098.3 | 4191.3 | 4293.0 | 4472.6 | 4641.4 |
| 10° | 3637.4 | 3639.6 | 3689.3 | 3784.5 | 3899.2 | 3938.2 | 4035.5 | 4169.7 | 4301.7 | 4533.2 | 4766.9 |
| 12.5° | 3563.8 | 3568.1 | 3594.1 | 3667.7 | 3793.2 | 3843.0 | 3979.3 | 4182.7 | 4351.5 | 4619.8 | 4929.2 |
| 15° | 3743.4 | 3743.4 | 3721.8 | 3730.4 | 3786.7 | 3832.1 | 3974.9 | 4225.9 | 4435.8 | 4723.6 | 5089.3 |
| 17.5° | 4091.8 | 4078.8 | 4024.7 | 3951.1 | 3931.7 | 3946.8 | 4061.5 | 4319.0 | 4554.8 | 4844.8 | 5271.1 |
| 20° | 4563.5 | 4567.8 | 4461.8 | 4308.2 | 4184.8 | 4182.7 | 4251.9 | 4483.4 | 4725.8 | 4989.8 | 5468.0 |
| 22.5° | 5134.8 | 5117.4 | 4976.8 | 4766.9 | 4552.7 | 4535.4 | 4563.5 | 4734.4 | 4972.5 | 5219.1 | 5710.3 |
| 25° | 5796.9 | 5788.2 | 5589.2 | 5307.9 | 5024.4 | 4983.3 | 4983.3 | 5152.1 | 5325.2 | 5545.9 | 6000.3 |
| 27.5° | 6489.3 | 6489.3 | 6296.7 | 5972.2 | 5595.6 | 5522.1 | 5511.3 | 5710.3 | 5825.0 | 5868.3 | 6244.8 |
| 30° | 7201.2 | 7192.6 | 7002.1 | 6668.9 | 6266.4 | 6190.7 | 6160.4 | 6307.5 | 6389.8 | 6259.9 | 6549.9 |
| 32.5° | 7923.9 | 7939.1 | 7746.5 | 7437.1 | 7077.9 | 7028.1 | 6935.1 | 6935.1 | 7002.1 | 6820.4 | 7030.3 |
| 35° | 8700.7 | 8696.4 | 8544.9 | 8335.1 | 8027.8 | 7971.5 | 7817.9 | 7577.7 | 7679.4 | 7599.4 | 7694.6 |
| 37.5° | 9386.7 | 9419.1 | 9345.6 | 9189.8 | 8940.9 | 8884.7 | 8631.5 | 8196.6 | 8274.5 | 8400.0 | 8484.4 |
| 40° | 10083.4 | 10109.4 | 10183.0 | 10133.2 | 9819.4 | 9715.6 | 9265.5 | 8551.4 | 8638.0 | 9068.6 | 9310.9 |
| 42.5° | 10767.2 | 10780.2 | 10929.5 | 11011.7 | 10591.9 | 10410.2 | 9745.9 | 8767.8 | 8858.7 | 9592.2 | 10016.3 |
| 45° | 11202.1 | 11230.2 | 11476.9 | 11727.9 | 11273.5 | 11024.7 | 10163.5 | 9044.8 | 9083.7 | 9955.8 | 10537.8 |
| 47.5° | 11184.8 | 11249.7 | 11712.8 | 12169.3 | 11859.9 | 11591.6 | 10665.5 | 9488.4 | 9423.5 | 10297.6 | 10881.9 |
| 50° | 10836.4 | 10914.3 | 11578.6 | 12303.5 | 12281.9 | 12033.0 | 11223.8 | 10131.0 | 9927.6 | 10600.6 | 10925.1 |
| 52.5° | 10113.7 | 10338.8 | 11342.8 | 12320.8 | 12621.6 | 12496.1 | 11914.0 | 10996.6 | 10609.2 | 11035.5 | 10994.4 |
| 55° | 8551.4 | 8828.4 | 10626.5 | 12173.7 | 12928.8 | 12944.0 | 12638.9 | 11898.9 | 11349.3 | 11784.2 | 11420.7 |
| 57.5° | 6491.5 | 6712.2 | 8179.3 | 10836.4 | 12420.4 | 12669.2 | 12920.2 | 12374.9 | 11805.8 | 12294.8 | 11520.2 |
| 60° | 3912.2 | 4167.5 | 5121.8 | 7952.1 | 10031.5 | 10455.6 | 11440.1 | 11334.1 | 10648.2 | 10858.1 | 9447.3 |
| 62.5° | 1586.1 | 1720.2 | 2365.1 | 4381.7 | 6314.0 | 6710.0 | 7653.4 | 7813.6 | 7644.8 | 7430.6 | 5729.8 |
| 65° | 579.9 | 634.0 | 947.8 | 1811.1 | 2903.9 | 3048.8 | 3546.5 | 3830.0 | 4063.7 | 3460.0 | 2131.4 |
| 67.5° | 359.2 | 393.8 | 616.7 | 930.4 | 1055.9 | 982.4 | 999.7 | 1192.3 | 1138.2 | 703.2 | 380.8 |
| 70° | 266.2 | 294.3 | 482.5 | 644.8 | 426.3 | 328.9 | 222.9 | 238.0 | 214.2 | 188.3 | 186.1 |
| 72.5° | 183.9 | 209.9 | 361.4 | 380.8 | 164.5 | 116.8 | 82.2 | 114.7 | 129.8 | 127.7 | 132.0 |
| 75° | 121.2 | 140.6 | 227.2 | 149.3 | 41.1 | 32.5 | 28.1 | 60.6 | 77.9 | 77.9 | 80.1 |
| 77.5° | 71.4 | 82.2 | 80.1 | 30.3 | 8.7 | 8.7 | 6.5 | 10.8 | 17.3 | 19.5 | 23.8 |
| 80° | 8.7 | 6.5 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 6.5 | 6.5 | 6.5 |
| 82.5° | 2.2 | 2.2 | 2.2 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 6.5 | 6.5 |
| 85° | 0.0 | 0.0 | 2.2 | 2.2 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 6.5 | 6.5 |
| 87.5° | 0.0 | 0.0 | 2.2 | 2.2 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 6.5 | 6.5 |
| 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° | 4539.7 | 4539.7 | 4539.7 | 4539.7 | 4539.7 | 4539.7 | 4539.7 | 4539.7 | 4539.7 | 4539.7 | 4539.7 |
| 2.5° | 4583.0 | 4567.8 | 4630.6 | 4676.0 | 4712.8 | 4730.1 | 4706.3 | 4704.2 | 4704.2 | 4656.5 | 4643.6 |
| 5° | 4637.1 | 4643.6 | 4732.3 | 4771.2 | 4777.7 | 4756.1 | 4702.0 | 4665.2 | 4643.6 | 4593.8 | 4565.7 |
| 7.5° | 4740.9 | 4762.6 | 4847.0 | 4840.5 | 4782.1 | 4682.5 | 4539.7 | 4429.3 | 4357.9 | 4280.0 | 4232.4 |
| 10° | 4890.2 | 4931.4 | 4983.3 | 4892.4 | 4706.3 | 4453.1 | 4158.9 | 3949.0 | 3823.5 | 3734.8 | 3680.7 |
| 12.5° | 5072.0 | 5113.1 | 5095.8 | 4881.6 | 4494.3 | 4042.0 | 3663.4 | 3360.4 | 3215.4 | 3135.4 | 3079.1 |
| 15° | 5255.9 | 5281.9 | 5169.4 | 4751.8 | 4119.9 | 3511.9 | 3089.9 | 2789.2 | 2611.7 | 2546.8 | 2499.2 |
| 17.5° | 5444.2 | 5437.7 | 5182.4 | 4496.4 | 3620.1 | 2914.7 | 2499.2 | 2293.7 | 2243.9 | 2233.1 | 2228.7 |
| 20° | 5641.1 | 5582.7 | 5130.4 | 4130.7 | 3018.5 | 2323.9 | 2088.1 | 2101.1 | 2192.0 | 2235.2 | 2243.9 |
| 22.5° | 5866.1 | 5719.0 | 5000.6 | 3635.2 | 2404.0 | 1936.6 | 1960.4 | 2088.1 | 2211.4 | 2269.9 | 2278.5 |
| 25° | 6106.3 | 5844.5 | 4784.2 | 2999.1 | 1895.5 | 1780.8 | 1921.5 | 2068.6 | 2200.6 | 2272.0 | 2280.7 |
| 27.5° | 6264.3 | 5874.8 | 4429.3 | 2358.6 | 1627.2 | 1720.2 | 1869.5 | 2010.2 | 2146.5 | 2224.4 | 2235.2 |
| 30° | 6435.2 | 5861.8 | 3946.8 | 1817.6 | 1536.3 | 1668.3 | 1798.1 | 1925.8 | 2051.3 | 2137.9 | 2146.5 |
| 32.5° | 6686.2 | 5853.1 | 3358.3 | 1475.7 | 1499.5 | 1627.2 | 1722.4 | 1828.4 | 1915.0 | 1964.8 | 1958.3 |
| 35° | 7015.1 | 5842.3 | 2672.3 | 1330.8 | 1477.9 | 1594.7 | 1670.5 | 1720.2 | 1625.0 | 1594.7 | 1601.2 |
| 37.5° | 7437.1 | 5868.3 | 2094.6 | 1270.2 | 1471.4 | 1586.1 | 1651.0 | 1508.2 | 1361.0 | 1304.8 | 1296.1 |
| 40° | 7904.4 | 5935.4 | 1596.9 | 1246.4 | 1493.0 | 1607.7 | 1577.4 | 1341.6 | 1159.8 | 1049.5 | 1025.7 |
| 42.5° | 8374.0 | 6008.9 | 1263.7 | 1237.7 | 1529.8 | 1668.3 | 1456.3 | 1220.4 | 947.8 | 885.0 | 876.3 |
| 45° | 8722.4 | 5996.0 | 1092.7 | 1222.6 | 1562.3 | 1702.9 | 1423.8 | 1047.3 | 846.1 | 817.9 | 820.1 |
| 47.5° | 8897.6 | 5853.1 | 999.7 | 1187.9 | 1575.3 | 1668.3 | 1343.7 | 975.9 | 776.8 | 807.1 | 833.1 |
| 50° | 8804.6 | 5483.1 | 913.1 | 1120.9 | 1547.1 | 1622.9 | 1216.1 | 921.8 | 742.2 | 867.7 | 926.1 |
| 52.5° | 8692.1 | 5028.7 | 817.9 | 1017.0 | 1480.1 | 1560.1 | 1166.3 | 906.6 | 720.6 | 837.4 | 880.7 |
| 55° | 8841.4 | 4740.9 | 662.1 | 856.9 | 1348.1 | 1413.0 | 1127.4 | 904.5 | 670.8 | 651.3 | 644.8 |
| 57.5° | 8631.5 | 4167.5 | 473.9 | 616.7 | 1034.3 | 1118.7 | 1099.2 | 889.3 | 595.1 | 592.9 | 601.5 |
| 60° | 6671.1 | 2542.5 | 324.6 | 391.7 | 634.0 | 714.1 | 997.5 | 850.4 | 512.8 | 471.7 | 473.9 |
| 62.5° | 3791.0 | 1081.9 | 222.9 | 242.3 | 324.6 | 385.2 | 761.7 | 772.5 | 473.9 | 450.1 | 473.9 |
| 65° | 1319.9 | 387.3 | 173.1 | 162.3 | 179.6 | 205.6 | 437.1 | 597.2 | 430.6 | 389.5 | 393.8 |
| 67.5° | 272.6 | 192.6 | 153.6 | 134.2 | 134.2 | 134.2 | 222.9 | 372.2 | 354.9 | 309.4 | 313.8 |
| 70° | 173.1 | 164.5 | 134.2 | 114.7 | 110.4 | 101.7 | 127.7 | 205.6 | 244.5 | 225.0 | 227.2 |
| 72.5° | 127.7 | 125.5 | 106.0 | 93.0 | 82.2 | 73.6 | 80.1 | 101.7 | 125.5 | 129.8 | 132.0 |
| 75° | 77.9 | 80.1 | 69.2 | 58.4 | 51.9 | 45.4 | 47.6 | 47.6 | 47.6 | 43.3 | 47.6 |
| 77.5° | 23.8 | 26.0 | 21.6 | 17.3 | 15.1 | 15.1 | 15.1 | 13.0 | 10.8 | 6.5 | 6.5 |
| 80° | 6.5 | 6.5 | 6.5 | 6.5 | 6.5 | 4.3 | 4.3 | 2.2 | 2.2 | 0.0 | 0.0 |
| 82.5° | 6.5 | 6.5 | 6.5 | 6.5 | 4.3 | 4.3 | 2.2 | 2.2 | 0.0 | 0.0 | 0.0 |
| 85° | 6.5 | 6.5 | 6.5 | 6.5 | 4.3 | 4.3 | 2.2 | 2.2 | 0.0 | 0.0 | 0.0 |
| 87.5° | 6.5 | 6.5 | 6.5 | 6.5 | 4.3 | 4.3 | 2.2 | 2.2 | 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)