

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P650397

Luminaire Tested: **GLAN-SA5B-835-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650397
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA5B-835-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16644.2 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

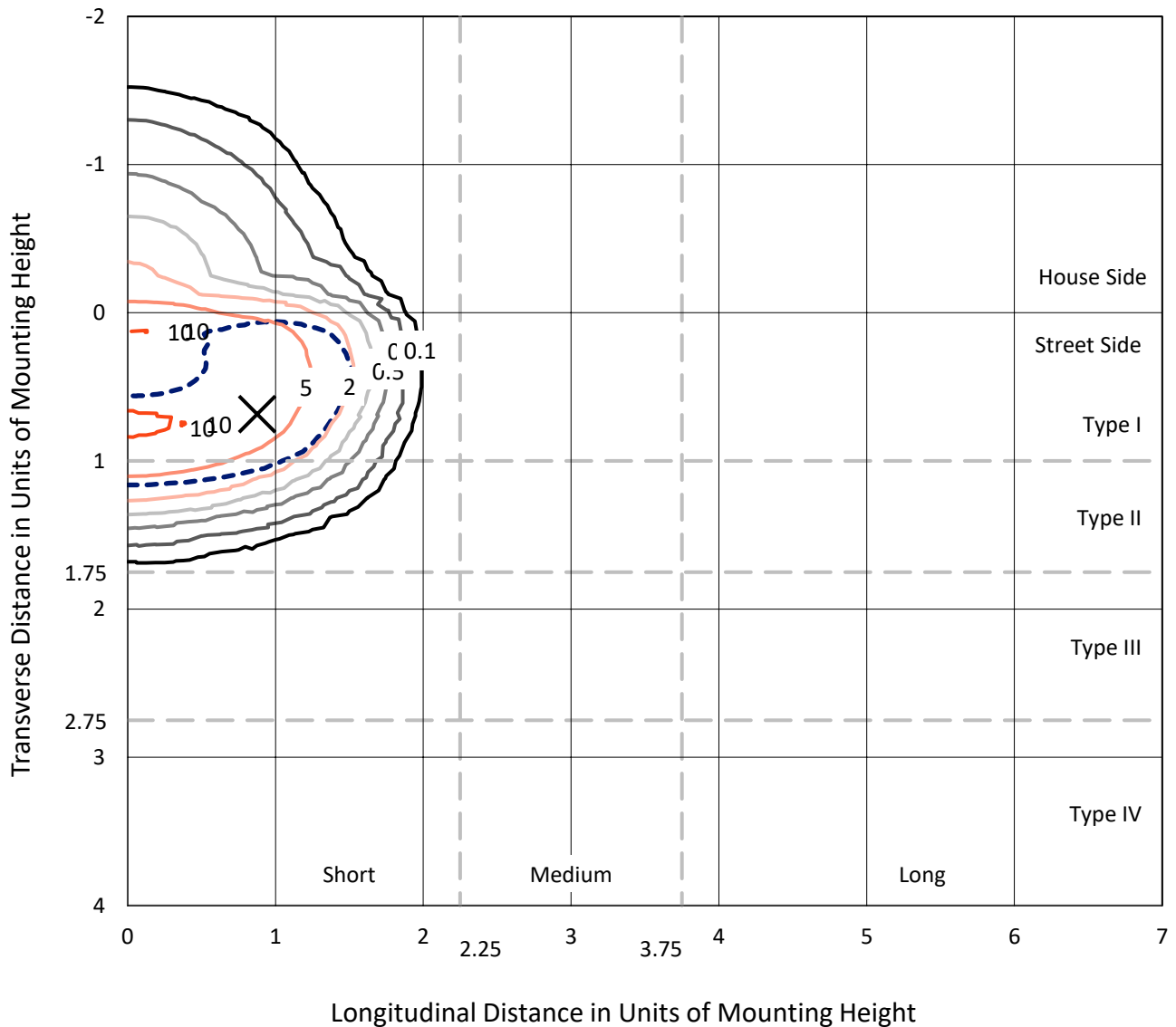
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

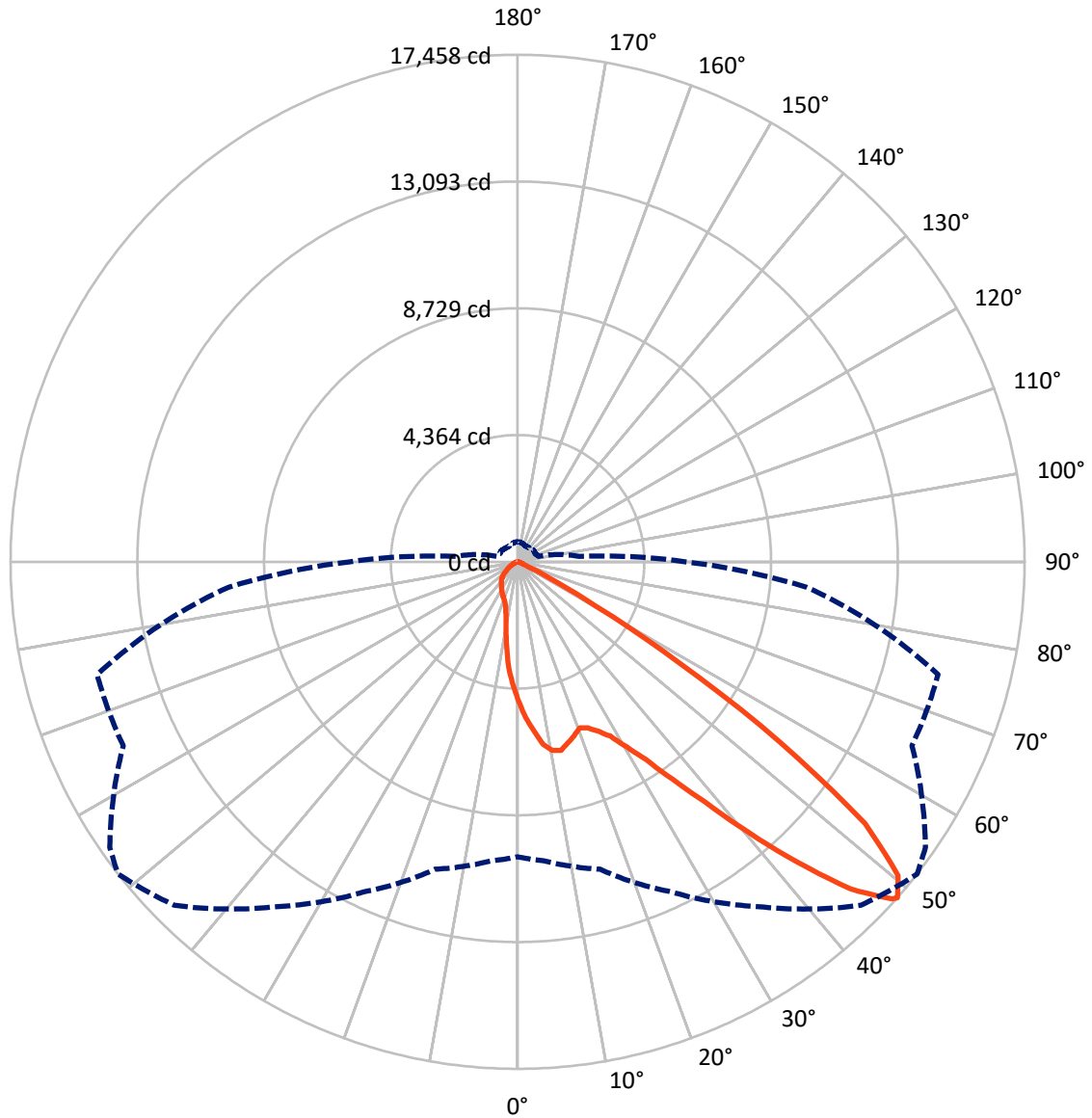
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2026.6 | 0.0 | 2026.6 |
| | % Fixture | 12.2 | 0.0 | 12.2 |
| Street Side | Lumens | 14617.7 | 0.0 | 14617.7 |
| | % Fixture | 87.8 | 0.0 | 87.8 |
| Total | Lumens | 16644.2 | 0.0 | 16644.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 439.9 | 2.6 |
| 10°-20° | 1149.7 | 6.9 |
| 20°-30° | 1963.0 | 11.8 |
| 30°-40° | 3614.9 | 21.7 |
| 40°-50° | 5614.0 | 33.7 |
| 50°-60° | 3378.7 | 20.3 |
| 60°-70° | 390.8 | 2.3 |
| 70°-80° | 75.6 | 0.5 |
| 80°-90° | 17.5 | 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° | 16644.2 | 100.0 |
| 0°-180° | 16644.2 | 100.0 |

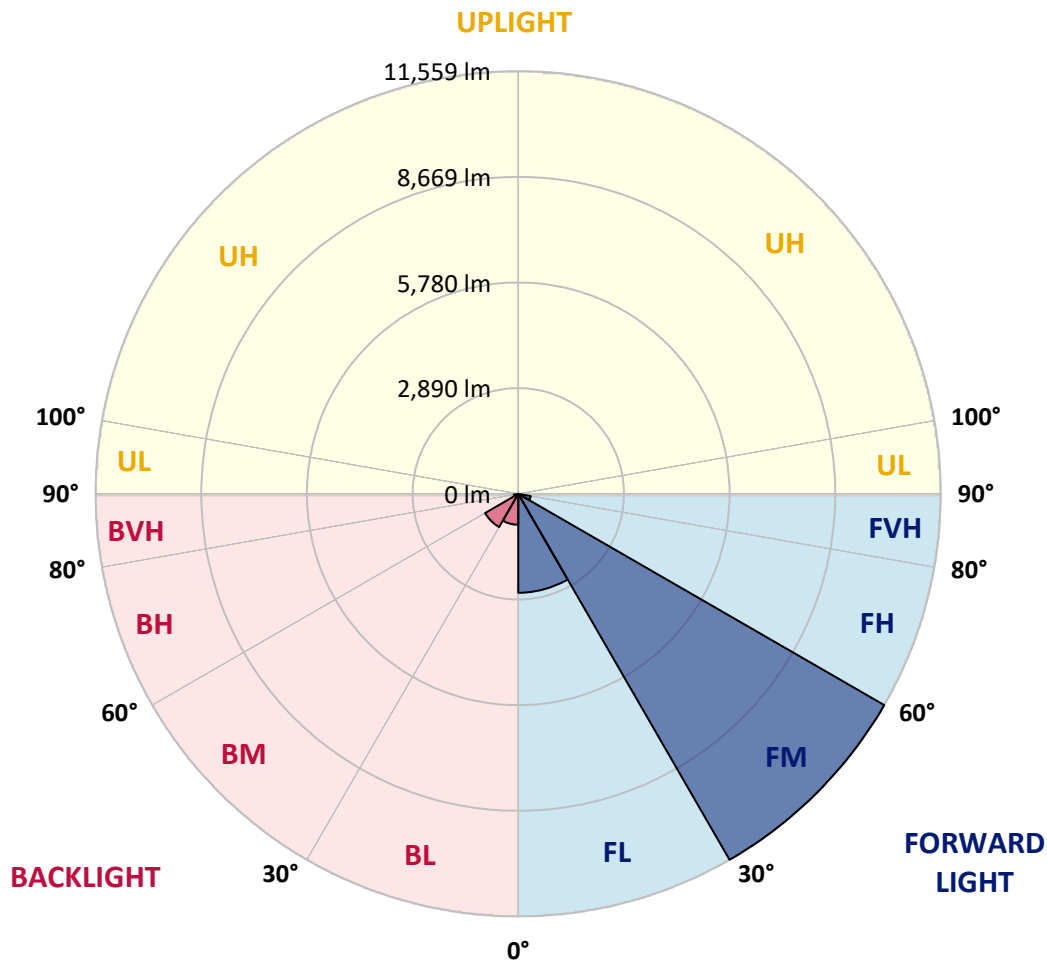


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 2706.1 | 16.3 | | | |
| FM (30°-60°) | 11559.1 | 69.4 | | | |
| FH (60°-80°) | 344.1 | 2.1 | | | G0/660 |
| FVH (80°-90°) | 8.3 | 0.1 | | | G0/10 |
| BL (0°-30°) | 846.6 | 5.1 | B2/1000 | | |
| BM (30°-60°) | 1048.5 | 6.3 | B2/2500 | | |
| BH (60°-80°) | 122.3 | 0.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 9.2 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 52° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4806.6 | 4806.6 | 4806.6 | 4806.6 | 4806.6 | 4806.6 | 4806.6 | 4806.6 | 4806.6 | 4806.6 | 4806.6 |
| 2.5° | 5825.7 | 5692.2 | 5704.3 | 5617.0 | 5566.0 | 5483.5 | 5371.9 | 5350.1 | 5228.8 | 5063.7 | 4896.3 |
| 5° | 6349.7 | 6318.2 | 6359.4 | 6233.2 | 6238.1 | 6102.2 | 5840.2 | 5845.0 | 5566.0 | 5296.7 | 5037.1 |
| 7.5° | 6383.7 | 6310.9 | 6352.2 | 6463.7 | 6529.3 | 6505.0 | 6357.0 | 6228.4 | 5964.0 | 5568.5 | 5190.0 |
| 10° | 5716.4 | 5854.7 | 5898.4 | 6082.8 | 6344.9 | 6621.5 | 6604.5 | 6611.8 | 6391.0 | 5874.1 | 5321.0 |
| 12.5° | 5316.1 | 5223.9 | 5371.9 | 5483.5 | 5879.0 | 6415.3 | 6660.3 | 6713.7 | 6730.7 | 6170.2 | 5452.0 |
| 15° | 5134.1 | 5134.1 | 5158.4 | 5190.0 | 5476.2 | 5971.2 | 6471.0 | 6626.3 | 6992.7 | 6558.4 | 5658.2 |
| 17.5° | 5248.1 | 5243.3 | 5277.3 | 5211.8 | 5318.5 | 5699.5 | 6296.3 | 6473.5 | 7286.3 | 6939.3 | 5820.8 |
| 20° | 5595.2 | 5612.2 | 5590.3 | 5401.1 | 5408.3 | 5694.6 | 6102.2 | 6381.3 | 7485.2 | 7269.3 | 6036.7 |
| 22.5° | 6078.0 | 6087.7 | 5964.0 | 5757.7 | 5697.0 | 5837.7 | 6213.9 | 6427.3 | 7645.4 | 7664.8 | 6102.2 |
| 25° | 6636.0 | 6597.2 | 6573.0 | 6281.8 | 6097.4 | 6218.7 | 6466.2 | 6590.0 | 7744.9 | 8004.5 | 6289.1 |
| 27.5° | 7410.1 | 7332.4 | 7184.4 | 6924.8 | 6788.9 | 6616.7 | 6793.8 | 6997.6 | 8028.7 | 8480.0 | 6492.9 |
| 30° | 8552.9 | 8484.9 | 8196.2 | 7861.3 | 7504.7 | 7334.8 | 7390.7 | 7502.2 | 8540.7 | 9030.8 | 6762.2 |
| 32.5° | 10273.1 | 10130.0 | 9712.6 | 9074.5 | 8589.3 | 8121.0 | 8106.4 | 8225.3 | 8999.3 | 9792.7 | 7082.5 |
| 35° | 12168.1 | 12124.4 | 11510.6 | 10853.0 | 9914.0 | 9191.0 | 9203.1 | 9266.2 | 9877.6 | 10792.3 | 7502.2 |
| 37.5° | 13427.4 | 13667.6 | 13276.9 | 12570.8 | 11782.3 | 10748.7 | 10486.6 | 10508.5 | 11083.5 | 11976.4 | 8259.2 |
| 40° | 14400.3 | 14196.5 | 14242.6 | 14077.6 | 13539.0 | 12835.3 | 12255.4 | 12141.4 | 12478.7 | 13286.6 | 9011.4 |
| 42.5° | 13975.7 | 13985.4 | 14269.3 | 14660.0 | 14793.4 | 14742.4 | 14150.4 | 13934.5 | 13672.4 | 14359.0 | 9727.2 |
| 45° | 12777.1 | 13027.0 | 13395.8 | 14429.4 | 15336.9 | 16188.5 | 16072.1 | 15713.0 | 14497.4 | 15208.3 | 10139.7 |
| 47.5° | 10865.1 | 10855.4 | 11459.6 | 12803.8 | 14820.1 | 16814.5 | 17343.4 | 17091.2 | 15082.1 | 15113.7 | 10054.7 |
| 48° | 10159.1 | 10333.8 | 10957.4 | 12539.4 | 14492.5 | 16722.3 | 17457.5 | 17139.6 | 14982.6 | 14987.5 | 9982.0 |
| 50° | 7509.5 | 7478.0 | 8254.4 | 10195.4 | 12944.6 | 15713.0 | 16977.1 | 17224.6 | 14980.2 | 14349.3 | 9472.4 |
| 52.5° | 3967.1 | 4102.9 | 4668.2 | 6410.4 | 9152.2 | 12859.6 | 14975.3 | 15361.1 | 14451.3 | 13306.1 | 8739.7 |
| 55° | 1686.3 | 1523.7 | 1958.0 | 2894.6 | 5148.7 | 8591.7 | 10986.4 | 11845.4 | 12219.0 | 11775.0 | 7645.4 |
| 57.5° | 601.7 | 657.6 | 757.0 | 1089.4 | 2164.3 | 4702.2 | 6551.1 | 7218.3 | 8465.5 | 8640.2 | 5209.4 |
| 60° | 385.8 | 393.1 | 424.6 | 499.8 | 812.8 | 1812.5 | 3108.1 | 3639.5 | 4204.9 | 4340.7 | 2431.2 |
| 62.5° | 298.4 | 300.8 | 315.4 | 327.5 | 385.8 | 703.6 | 1167.1 | 1383.0 | 1436.4 | 1235.0 | 638.1 |
| 65° | 249.9 | 252.4 | 257.2 | 257.2 | 274.2 | 330.0 | 407.6 | 448.9 | 436.8 | 431.9 | 361.5 |
| 67.5° | 191.7 | 196.5 | 206.2 | 206.2 | 216.0 | 201.4 | 225.7 | 240.2 | 271.8 | 330.0 | 308.1 |
| 70° | 150.4 | 152.8 | 160.1 | 165.0 | 165.0 | 145.6 | 162.6 | 177.1 | 199.0 | 245.1 | 242.7 |
| 72.5° | 116.4 | 121.3 | 126.1 | 126.1 | 118.9 | 99.4 | 116.4 | 128.6 | 143.1 | 169.8 | 165.0 |
| 75° | 89.8 | 89.8 | 92.2 | 75.2 | 58.3 | 51.0 | 70.4 | 85.0 | 106.7 | 111.6 | 92.2 |
| 77.5° | 24.3 | 26.7 | 24.3 | 21.8 | 24.3 | 36.4 | 46.1 | 53.4 | 68.0 | 68.0 | 60.7 |
| 80° | 0.0 | 2.4 | 7.3 | 14.6 | 24.3 | 34.0 | 41.3 | 46.1 | 53.4 | 58.3 | 55.8 |
| 82.5° | 0.0 | 2.4 | 7.3 | 14.6 | 21.8 | 26.7 | 36.4 | 38.8 | 43.7 | 51.0 | 51.0 |
| 85° | 0.0 | 2.4 | 4.9 | 9.7 | 14.6 | 17.0 | 17.0 | 14.6 | 14.6 | 12.1 | 9.7 |
| 87.5° | 0.0 | 0.0 | 2.4 | 4.9 | 4.9 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 |
| 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° | 4806.6 | 4806.6 | 4806.6 | 4806.6 | 4806.6 | 4806.6 | 4806.6 | 4806.6 | 4806.6 | 4806.6 | 4806.6 |
| 2.5° | 4830.9 | 4755.6 | 4641.6 | 4462.0 | 4289.7 | 4178.2 | 4071.4 | 3952.5 | 3887.0 | 3882.1 | 3845.8 |
| 5° | 4889.1 | 4719.2 | 4447.5 | 4139.3 | 3809.4 | 3525.5 | 3239.2 | 3052.4 | 2884.9 | 2792.7 | 2775.7 |
| 7.5° | 4920.6 | 4699.8 | 4260.6 | 3743.8 | 3180.9 | 2717.5 | 2397.2 | 2161.9 | 2069.7 | 2001.7 | 1999.3 |
| 10° | 4986.1 | 4665.8 | 3981.6 | 3219.8 | 2523.4 | 2055.1 | 1834.3 | 1727.5 | 1676.6 | 1657.2 | 1628.1 |
| 12.5° | 5034.7 | 4602.8 | 3695.3 | 2681.1 | 1994.5 | 1703.3 | 1606.2 | 1582.0 | 1584.4 | 1594.1 | 1582.0 |
| 15° | 5102.6 | 4547.0 | 3309.5 | 2200.7 | 1674.2 | 1533.4 | 1533.4 | 1538.3 | 1572.3 | 1577.1 | 1574.7 |
| 17.5° | 5097.7 | 4437.8 | 2911.6 | 1812.5 | 1480.1 | 1460.7 | 1468.0 | 1514.0 | 1535.9 | 1543.1 | 1526.1 |
| 20° | 5156.0 | 4335.9 | 2501.5 | 1548.0 | 1370.9 | 1400.0 | 1448.6 | 1460.7 | 1487.3 | 1492.2 | 1472.8 |
| 22.5° | 5139.0 | 4081.1 | 2120.6 | 1339.3 | 1288.3 | 1344.2 | 1392.7 | 1407.3 | 1400.0 | 1385.4 | 1383.0 |
| 25° | 5107.4 | 3862.7 | 1771.2 | 1201.0 | 1227.7 | 1288.3 | 1334.5 | 1307.8 | 1293.2 | 1295.6 | 1298.1 |
| 27.5° | 5051.6 | 3586.1 | 1482.5 | 1104.0 | 1145.2 | 1235.0 | 1232.6 | 1222.9 | 1237.5 | 1225.3 | 1237.5 |
| 30° | 5041.9 | 3309.5 | 1244.7 | 1016.6 | 1084.6 | 1150.1 | 1154.9 | 1171.9 | 1188.9 | 1167.1 | 1188.9 |
| 32.5° | 5056.5 | 3006.3 | 1074.9 | 963.2 | 1048.2 | 1050.6 | 1104.0 | 1120.9 | 1108.8 | 1060.3 | 1065.2 |
| 35° | 5168.1 | 2773.3 | 951.1 | 934.1 | 989.9 | 992.4 | 1043.3 | 1021.5 | 968.1 | 939.0 | 956.0 |
| 37.5° | 5403.5 | 2579.2 | 892.9 | 907.4 | 912.3 | 943.8 | 946.3 | 902.6 | 907.4 | 905.0 | 914.7 |
| 40° | 5704.3 | 2431.2 | 851.7 | 883.2 | 878.4 | 900.1 | 812.8 | 837.1 | 859.0 | 866.2 | 871.1 |
| 42.5° | 5910.6 | 2324.4 | 825.0 | 844.4 | 834.7 | 795.8 | 747.3 | 771.6 | 788.6 | 815.3 | 820.1 |
| 45° | 6002.8 | 2239.5 | 793.4 | 776.4 | 776.4 | 706.0 | 686.7 | 691.5 | 730.3 | 759.4 | 754.6 |
| 47.5° | 5852.3 | 2157.0 | 737.6 | 686.7 | 703.6 | 645.4 | 623.6 | 623.6 | 664.8 | 701.2 | 693.9 |
| 48° | 5794.1 | 2123.0 | 740.0 | 667.3 | 679.4 | 635.7 | 613.9 | 609.0 | 655.1 | 689.1 | 689.1 |
| 50° | 5505.4 | 1996.9 | 677.0 | 613.9 | 589.6 | 584.7 | 570.2 | 575.0 | 604.2 | 635.7 | 635.7 |
| 52.5° | 4942.5 | 1725.1 | 572.6 | 526.5 | 482.9 | 511.9 | 519.2 | 509.5 | 524.1 | 553.2 | 550.8 |
| 55° | 4124.8 | 1324.8 | 458.6 | 436.8 | 402.8 | 434.3 | 448.9 | 436.8 | 422.2 | 444.0 | 444.0 |
| 57.5° | 2642.3 | 713.3 | 366.4 | 371.2 | 337.2 | 368.8 | 380.9 | 351.8 | 325.1 | 342.1 | 339.7 |
| 60° | 1191.3 | 427.0 | 300.8 | 293.6 | 271.8 | 308.1 | 327.5 | 293.6 | 257.2 | 269.4 | 281.5 |
| 62.5° | 446.5 | 303.3 | 228.1 | 223.2 | 218.4 | 252.4 | 262.1 | 235.4 | 199.0 | 206.2 | 208.7 |
| 65° | 327.5 | 266.9 | 182.0 | 165.0 | 174.7 | 199.0 | 194.1 | 167.4 | 143.1 | 143.1 | 148.0 |
| 67.5° | 279.1 | 232.9 | 148.0 | 128.6 | 128.6 | 131.0 | 121.3 | 106.7 | 99.4 | 104.3 | 109.2 |
| 70° | 218.4 | 184.4 | 116.4 | 99.4 | 89.8 | 80.1 | 70.4 | 68.0 | 60.7 | 68.0 | 65.5 |
| 72.5° | 140.7 | 123.7 | 89.8 | 75.2 | 68.0 | 55.8 | 46.1 | 43.7 | 36.4 | 34.0 | 34.0 |
| 75° | 75.2 | 75.2 | 70.4 | 60.7 | 53.4 | 43.7 | 36.4 | 29.1 | 19.4 | 14.6 | 14.6 |
| 77.5° | 53.4 | 58.3 | 63.1 | 58.3 | 48.5 | 36.4 | 29.1 | 19.4 | 9.7 | 4.9 | 4.9 |
| 80° | 51.0 | 58.3 | 63.1 | 55.8 | 48.5 | 36.4 | 26.7 | 14.6 | 7.3 | 2.4 | 2.4 |
| 82.5° | 46.1 | 53.4 | 58.3 | 51.0 | 43.7 | 31.6 | 24.3 | 14.6 | 7.3 | 2.4 | 2.4 |
| 85° | 9.7 | 12.1 | 14.6 | 14.6 | 17.0 | 21.8 | 17.0 | 12.1 | 4.9 | 2.4 | 2.4 |
| 87.5° | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 | 4.9 | 4.9 | 2.4 | 2.4 | 2.4 |
| 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)