

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: P456866

Luminaire Tested: **GLAN-SA8A-830-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456866
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA8A-830-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24016 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

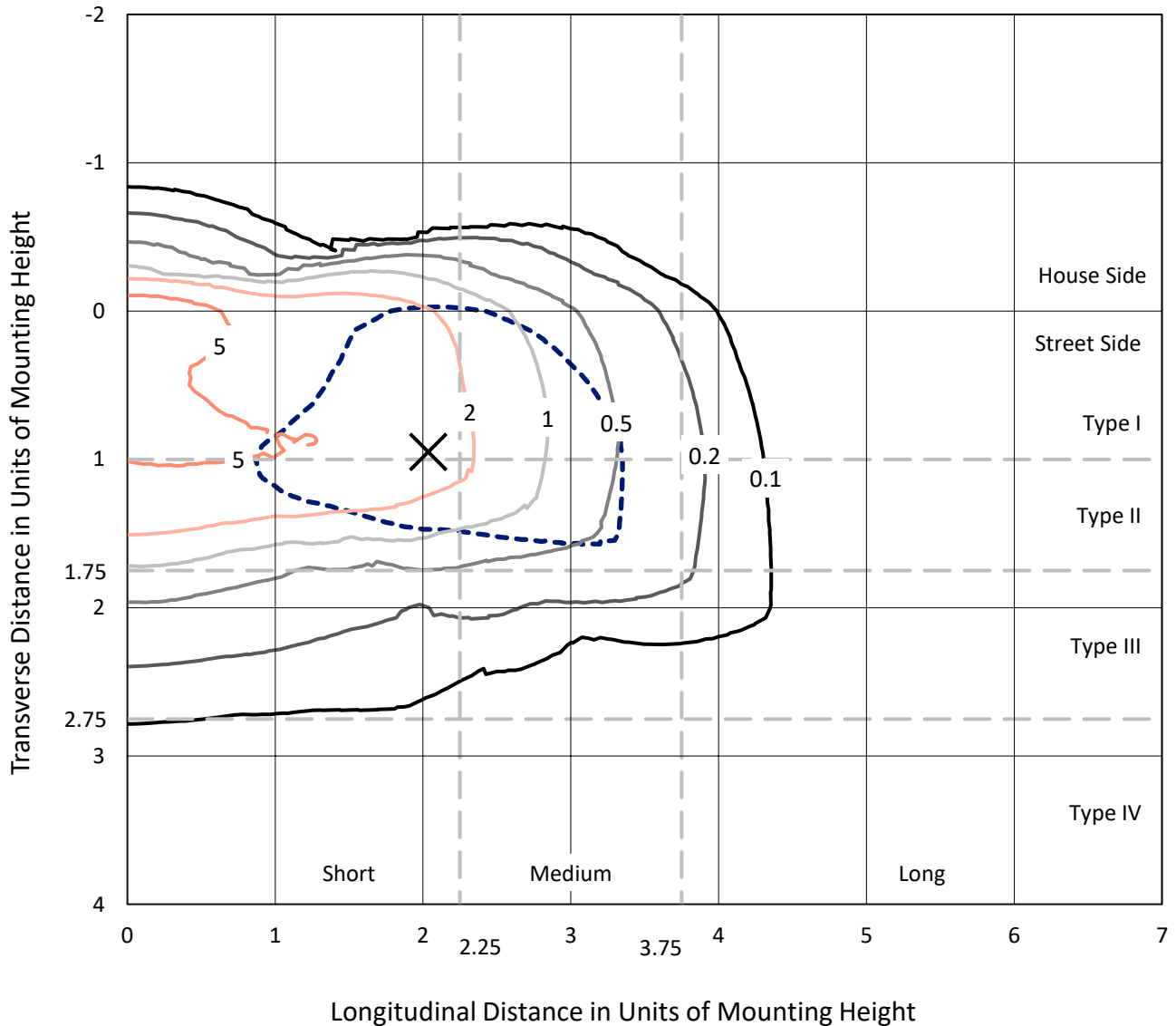
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

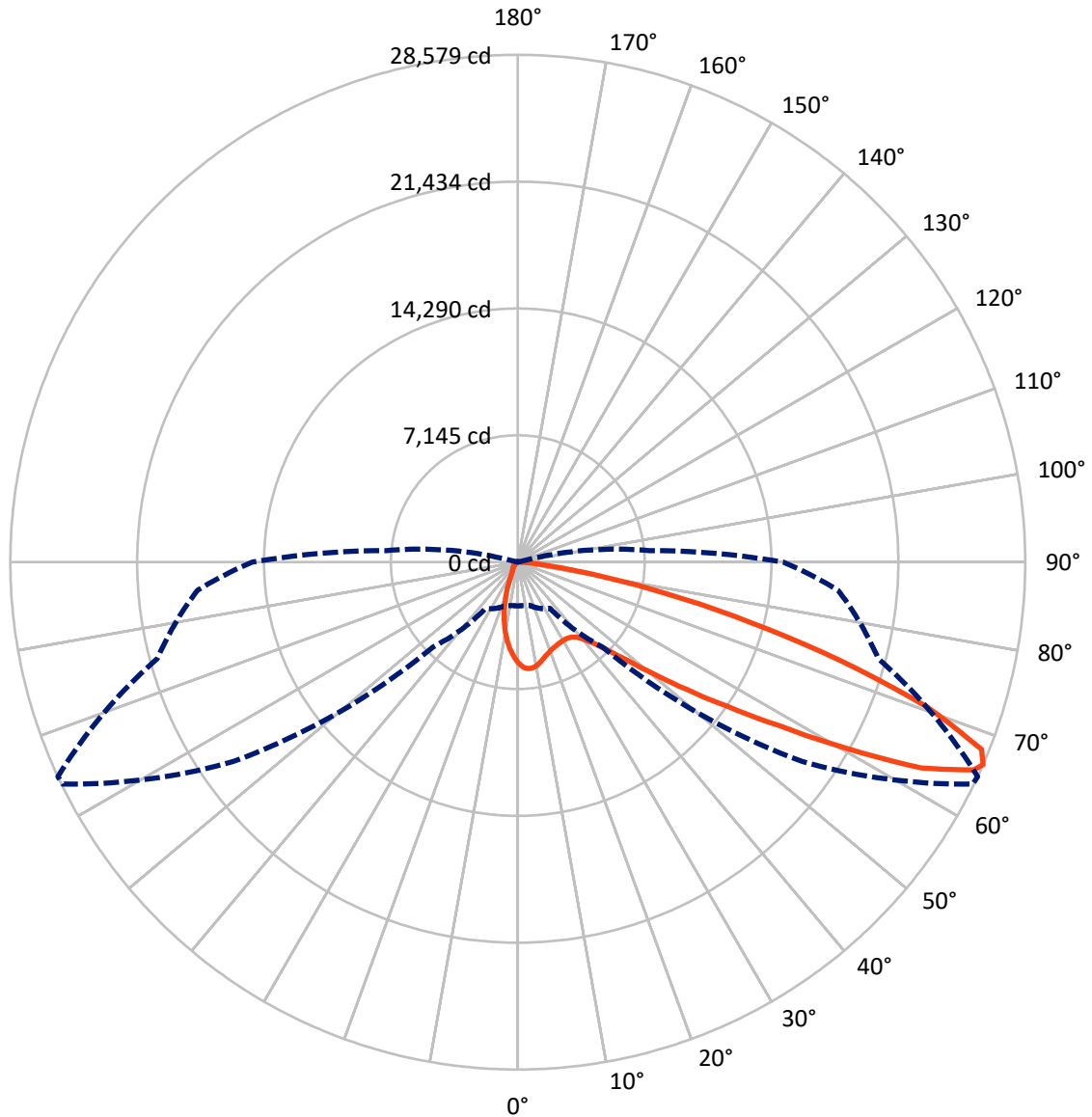
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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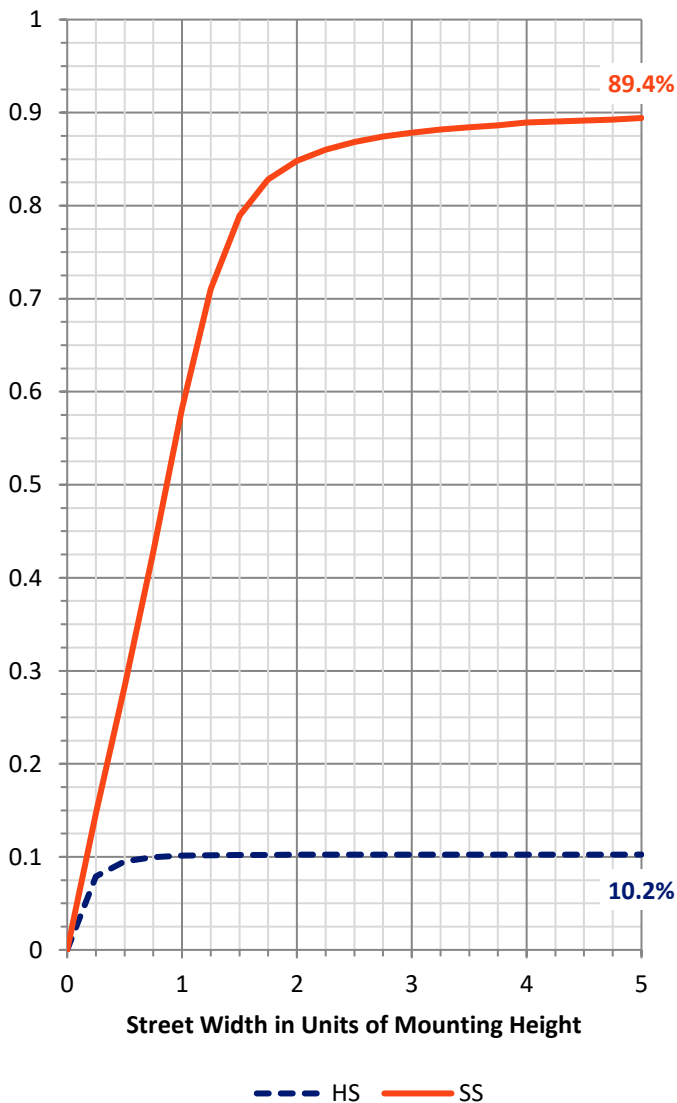
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2483.6 | 0.0 | 2483.6 |
| | % Fixture | 10.3 | 0.0 | 10.3 |
| Street Side | Lumens | 21532.4 | 0.0 | 21532.4 |
| | % Fixture | 89.7 | 0.0 | 89.7 |
| Total | Lumens | 24016.0 | 0.0 | 24016.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 465.8 | 1.9 |
| 10°-20° | 1014.8 | 4.2 |
| 20°-30° | 1453.8 | 6.1 |
| 30°-40° | 2123.4 | 8.8 |
| 40°-50° | 3560.5 | 14.8 |
| 50°-60° | 5941.9 | 24.7 |
| 60°-70° | 6307.1 | 26.3 |
| 70°-80° | 2856.5 | 11.9 |
| 80°-90° | 292.3 | 1.2 |
| 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° | 24016.0 | 100.0 |
| 0°-180° | 24016.0 | 100.0 |



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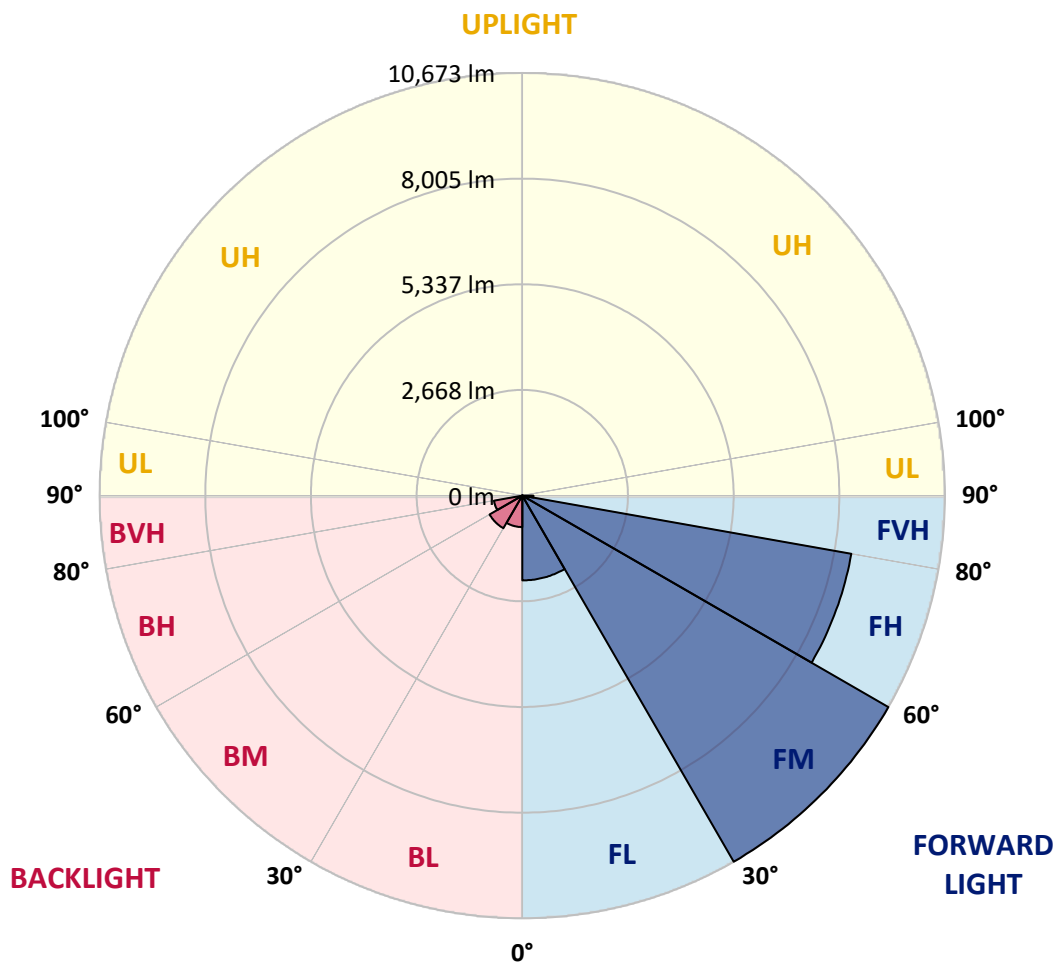
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2139.9 | 8.9 | | | |
| FM (30°-60°) | 10673.3 | 44.4 | | | |
| FH (60°-80°) | 8436.3 | 35.1 | | | G4/12000 |
| FVH (80°-90°) | 283.0 | 1.2 | | | G3/500 |
| BL (0°-30°) | 794.5 | 3.3 | B2/1000 | | |
| BM (30°-60°) | 952.5 | 4.0 | B1/1000 | | |
| BH (60°-80°) | 727.3 | 3.0 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 9.3 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 64° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5695.1 | 5695.1 | 5695.1 | 5695.1 | 5695.1 | 5695.1 | 5695.1 | 5695.1 | 5695.1 | 5695.1 | 5695.1 |
| 2.5° | 6001.7 | 6008.1 | 6016.2 | 6027.6 | 6035.7 | 6011.4 | 5977.3 | 5938.4 | 5930.3 | 5847.6 | 5747.0 |
| 5° | 5680.5 | 5690.2 | 5761.6 | 5800.5 | 5888.1 | 5967.6 | 6017.9 | 6024.4 | 6021.1 | 5943.3 | 5782.7 |
| 7.5° | 5223.1 | 5250.6 | 5320.4 | 5388.5 | 5552.3 | 5703.2 | 5881.6 | 6006.5 | 6014.6 | 5993.5 | 5794.0 |
| 10° | 4851.6 | 4869.4 | 4905.1 | 5039.8 | 5176.0 | 5406.4 | 5656.1 | 5891.3 | 5910.8 | 5995.2 | 5784.3 |
| 12.5° | 4561.3 | 4587.2 | 4631.0 | 4734.8 | 4898.6 | 5116.0 | 5399.9 | 5716.2 | 5756.7 | 5964.3 | 5756.7 |
| 15° | 4358.5 | 4371.5 | 4415.3 | 4517.5 | 4676.4 | 4877.6 | 5164.7 | 5532.9 | 5568.6 | 5923.8 | 5751.9 |
| 17.5° | 4262.8 | 4277.4 | 4308.2 | 4389.3 | 4520.7 | 4707.2 | 4987.9 | 5385.3 | 5430.7 | 5897.8 | 5769.7 |
| 20° | 4288.7 | 4301.7 | 4303.3 | 4345.5 | 4434.7 | 4592.1 | 4858.1 | 5247.4 | 5305.8 | 5881.6 | 5798.9 |
| 22.5° | 4436.4 | 4438.0 | 4418.5 | 4399.0 | 4429.9 | 4543.4 | 4778.6 | 5159.8 | 5219.8 | 5878.4 | 5833.0 |
| 25° | 4657.0 | 4661.8 | 4629.4 | 4561.3 | 4499.6 | 4558.0 | 4760.8 | 5103.0 | 5156.6 | 5870.3 | 5854.0 |
| 27.5° | 4961.9 | 4960.3 | 4950.6 | 4837.0 | 4661.8 | 4622.9 | 4775.4 | 5072.2 | 5117.6 | 5847.6 | 5862.2 |
| 30° | 5388.5 | 5375.5 | 5354.4 | 5226.3 | 4958.7 | 4780.2 | 4837.0 | 5052.7 | 5094.9 | 5815.1 | 5841.1 |
| 32.5° | 5808.6 | 5857.3 | 5854.0 | 5732.4 | 5398.2 | 5060.9 | 4965.1 | 5078.7 | 5109.5 | 5794.0 | 5810.2 |
| 35° | 6298.5 | 6296.9 | 6421.8 | 6376.3 | 5985.4 | 5419.3 | 5184.1 | 5164.7 | 5189.0 | 5808.6 | 5795.6 |
| 37.5° | 6752.7 | 6794.8 | 6989.5 | 7036.5 | 6679.7 | 5925.4 | 5493.9 | 5349.6 | 5357.7 | 5907.6 | 5831.3 |
| 40° | 7318.8 | 7399.9 | 7690.2 | 7847.6 | 7532.9 | 6676.4 | 5951.4 | 5688.6 | 5690.2 | 6150.9 | 5966.0 |
| 42.5° | 8048.7 | 8176.8 | 8447.7 | 8710.5 | 8541.8 | 7565.3 | 6637.5 | 6225.5 | 6222.3 | 6579.1 | 6274.2 |
| 45° | 8936.0 | 9025.2 | 9333.4 | 9750.2 | 9643.2 | 8806.2 | 7636.7 | 7057.6 | 7015.4 | 7281.5 | 6820.8 |
| 47.5° | 9701.6 | 9823.2 | 10136.3 | 10611.6 | 11098.2 | 10321.2 | 8830.5 | 8201.2 | 8173.6 | 8399.1 | 7758.3 |
| 50° | 10035.7 | 10142.8 | 10472.1 | 11138.7 | 12318.0 | 12309.9 | 10608.3 | 9870.3 | 9823.2 | 9944.9 | 9208.5 |
| 52.5° | 9669.1 | 9769.7 | 10102.2 | 10932.7 | 12892.2 | 14733.2 | 13184.2 | 11964.4 | 11907.6 | 11751.9 | 10940.8 |
| 55° | 8413.7 | 8496.4 | 8987.9 | 9941.7 | 12671.6 | 16348.8 | 16733.2 | 14551.6 | 14331.0 | 13725.9 | 12901.9 |
| 57.5° | 6699.1 | 6657.0 | 6961.9 | 8069.8 | 11377.2 | 16890.6 | 20376.4 | 17774.6 | 17380.5 | 15432.4 | 14561.3 |
| 60° | 4642.4 | 4772.1 | 4895.4 | 5625.3 | 8554.8 | 15951.4 | 22642.4 | 21826.5 | 21307.5 | 17111.2 | 16150.9 |
| 62.5° | 3412.8 | 3498.8 | 3579.9 | 3917.3 | 5378.8 | 12736.5 | 23043.1 | 25988.8 | 25528.1 | 18893.8 | 17667.6 |
| 65° | 2699.1 | 2705.6 | 2738.1 | 3070.6 | 3544.2 | 8282.3 | 21117.7 | 28335.9 | 28217.5 | 20610.0 | 18282.3 |
| 66° | 2459.1 | 2460.7 | 2511.0 | 2867.8 | 3180.9 | 6744.6 | 19575.1 | 28514.3 | 28579.2 | 21022.0 | 18102.3 |
| 67.5° | 2149.2 | 2142.8 | 2215.7 | 2577.5 | 2897.0 | 4863.0 | 16814.4 | 27790.9 | 28175.3 | 21338.3 | 17455.1 |
| 70° | 1665.9 | 1657.8 | 1747.0 | 2162.2 | 2668.3 | 3244.1 | 11176.0 | 23862.2 | 24481.9 | 20691.1 | 15443.7 |
| 72.5° | 1109.5 | 1116.0 | 1268.5 | 1706.4 | 2546.6 | 2856.5 | 6723.5 | 18152.6 | 19028.5 | 17086.9 | 12149.3 |
| 75° | 647.2 | 658.6 | 832.1 | 1268.5 | 2210.9 | 2723.5 | 3805.4 | 12944.1 | 13503.7 | 11798.9 | 7568.6 |
| 77.5° | 339.0 | 343.9 | 465.5 | 837.0 | 1695.1 | 2528.8 | 2535.3 | 8269.3 | 8532.1 | 5734.0 | 2996.0 |
| 80° | 180.0 | 175.2 | 249.8 | 504.5 | 1166.3 | 2220.6 | 2056.8 | 4378.0 | 4551.5 | 1703.2 | 757.5 |
| 82.5° | 68.1 | 74.6 | 133.0 | 330.9 | 689.4 | 1594.5 | 1771.3 | 1935.1 | 1875.1 | 374.7 | 317.9 |
| 85° | 13.0 | 16.2 | 56.8 | 196.3 | 347.1 | 666.7 | 1305.8 | 948.9 | 879.2 | 141.1 | 183.3 |
| 87.5° | 1.6 | 3.2 | 16.2 | 47.0 | 50.3 | 225.5 | 386.1 | 262.8 | 227.1 | 51.9 | 76.2 |
| 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° | 5695.1 | 5695.1 | 5695.1 | 5695.1 | 5695.1 | 5695.1 | 5695.1 | 5695.1 | 5695.1 | 5695.1 | 5695.1 |
| 2.5° | 5698.3 | 5654.5 | 5508.5 | 5364.2 | 5216.6 | 5083.6 | 4992.7 | 4845.1 | 4807.8 | 4754.3 | 4723.5 |
| 5° | 5687.0 | 5584.8 | 5304.2 | 4997.6 | 4712.1 | 4403.9 | 4168.7 | 3941.6 | 3820.0 | 3758.3 | 3735.6 |
| 7.5° | 5654.5 | 5492.3 | 5054.4 | 4574.2 | 4116.8 | 3656.1 | 3255.5 | 2950.5 | 2754.3 | 2619.6 | 2528.8 |
| 10° | 5589.6 | 5365.8 | 4764.0 | 4103.8 | 3412.8 | 2804.6 | 2296.8 | 1910.8 | 1612.3 | 1518.3 | 1521.5 |
| 12.5° | 5523.1 | 5224.7 | 4439.6 | 3581.5 | 2725.1 | 1957.8 | 1419.3 | 1114.4 | 971.6 | 924.6 | 914.8 |
| 15° | 5461.5 | 5090.0 | 4121.7 | 3075.4 | 2029.2 | 1268.5 | 914.8 | 807.8 | 768.9 | 760.7 | 759.1 |
| 17.5° | 5429.1 | 4965.1 | 3782.7 | 2496.4 | 1416.1 | 861.3 | 733.2 | 704.0 | 692.6 | 684.5 | 681.3 |
| 20° | 5401.5 | 4856.5 | 3458.2 | 1954.6 | 968.4 | 705.6 | 656.9 | 629.4 | 609.9 | 601.8 | 596.9 |
| 22.5° | 5382.0 | 4744.5 | 3122.5 | 1513.4 | 741.3 | 626.1 | 582.3 | 546.6 | 519.1 | 509.3 | 502.8 |
| 25° | 5352.8 | 4621.3 | 2783.5 | 1106.3 | 624.5 | 556.4 | 506.1 | 463.9 | 428.2 | 410.4 | 407.1 |
| 27.5° | 5310.6 | 4481.8 | 2412.0 | 819.1 | 558.0 | 494.7 | 433.1 | 381.2 | 345.5 | 326.0 | 327.7 |
| 30° | 5242.5 | 4335.8 | 2040.6 | 650.4 | 504.5 | 431.5 | 365.0 | 314.7 | 280.6 | 266.0 | 264.4 |
| 32.5° | 5161.4 | 4159.0 | 1699.9 | 558.0 | 455.8 | 374.7 | 304.9 | 261.2 | 235.2 | 223.8 | 222.2 |
| 35° | 5085.2 | 3980.6 | 1352.8 | 501.2 | 405.5 | 322.8 | 256.3 | 219.0 | 199.5 | 189.8 | 191.4 |
| 37.5° | 5043.0 | 3821.6 | 1054.3 | 455.8 | 365.0 | 277.4 | 220.6 | 188.2 | 170.3 | 162.2 | 160.6 |
| 40° | 5070.6 | 3691.8 | 838.6 | 415.2 | 319.5 | 238.4 | 189.8 | 162.2 | 144.4 | 133.0 | 133.0 |
| 42.5° | 5200.3 | 3635.1 | 676.4 | 376.3 | 277.4 | 206.0 | 165.5 | 139.5 | 120.0 | 108.7 | 110.3 |
| 45° | 5596.1 | 3695.1 | 566.1 | 340.6 | 238.4 | 178.4 | 142.7 | 115.2 | 97.3 | 89.2 | 87.6 |
| 47.5° | 6253.1 | 3920.5 | 489.9 | 303.3 | 204.4 | 152.5 | 120.0 | 95.7 | 77.9 | 71.4 | 69.7 |
| 50° | 7401.5 | 4386.1 | 433.1 | 266.0 | 173.6 | 129.8 | 98.9 | 76.2 | 61.6 | 55.2 | 55.2 |
| 52.5° | 8981.4 | 5401.5 | 392.5 | 223.8 | 146.0 | 110.3 | 81.1 | 61.6 | 48.7 | 43.8 | 42.2 |
| 55° | 10632.7 | 6472.0 | 371.5 | 188.2 | 121.7 | 90.8 | 64.9 | 48.7 | 37.3 | 32.4 | 30.8 |
| 57.5° | 12220.7 | 7312.3 | 347.1 | 152.5 | 97.3 | 69.7 | 50.3 | 37.3 | 26.0 | 22.7 | 21.1 |
| 60° | 13743.8 | 7991.9 | 295.2 | 121.7 | 76.2 | 50.3 | 37.3 | 26.0 | 17.8 | 14.6 | 14.6 |
| 62.5° | 15106.3 | 8387.7 | 232.0 | 97.3 | 58.4 | 35.7 | 24.3 | 19.5 | 13.0 | 9.7 | 9.7 |
| 65° | 15265.3 | 7873.5 | 175.2 | 74.6 | 42.2 | 22.7 | 14.6 | 14.6 | 9.7 | 6.5 | 6.5 |
| 66° | 14945.7 | 7437.2 | 154.1 | 68.1 | 37.3 | 19.5 | 13.0 | 11.4 | 8.1 | 4.9 | 4.9 |
| 67.5° | 14232.0 | 6692.7 | 133.0 | 58.4 | 30.8 | 14.6 | 9.7 | 9.7 | 6.5 | 3.2 | 3.2 |
| 70° | 12296.9 | 5466.4 | 105.4 | 43.8 | 22.7 | 11.4 | 6.5 | 6.5 | 4.9 | 3.2 | 3.2 |
| 72.5° | 9372.3 | 4081.1 | 86.0 | 32.4 | 16.2 | 8.1 | 4.9 | 4.9 | 4.9 | 3.2 | 3.2 |
| 75° | 5652.9 | 2197.9 | 66.5 | 24.3 | 14.6 | 6.5 | 3.2 | 4.9 | 6.5 | 4.9 | 3.2 |
| 77.5° | 2082.7 | 747.8 | 51.9 | 19.5 | 11.4 | 6.5 | 3.2 | 3.2 | 6.5 | 4.9 | 4.9 |
| 80° | 511.0 | 194.6 | 37.3 | 16.2 | 11.4 | 6.5 | 3.2 | 3.2 | 6.5 | 6.5 | 6.5 |
| 82.5° | 236.8 | 82.7 | 26.0 | 14.6 | 11.4 | 6.5 | 3.2 | 3.2 | 4.9 | 6.5 | 6.5 |
| 85° | 136.3 | 38.9 | 21.1 | 16.2 | 11.4 | 6.5 | 3.2 | 3.2 | 4.9 | 6.5 | 6.5 |
| 87.5° | 55.2 | 19.5 | 19.5 | 16.2 | 13.0 | 8.1 | 3.2 | 3.2 | 3.2 | 4.9 | 4.9 |
| 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)