

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: P649614

Luminaire Tested: **GLAN-SA8D-835-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P649614
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA8D-835-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35220.9 lumens
Efficiency: N/A
Efficacy: 71.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

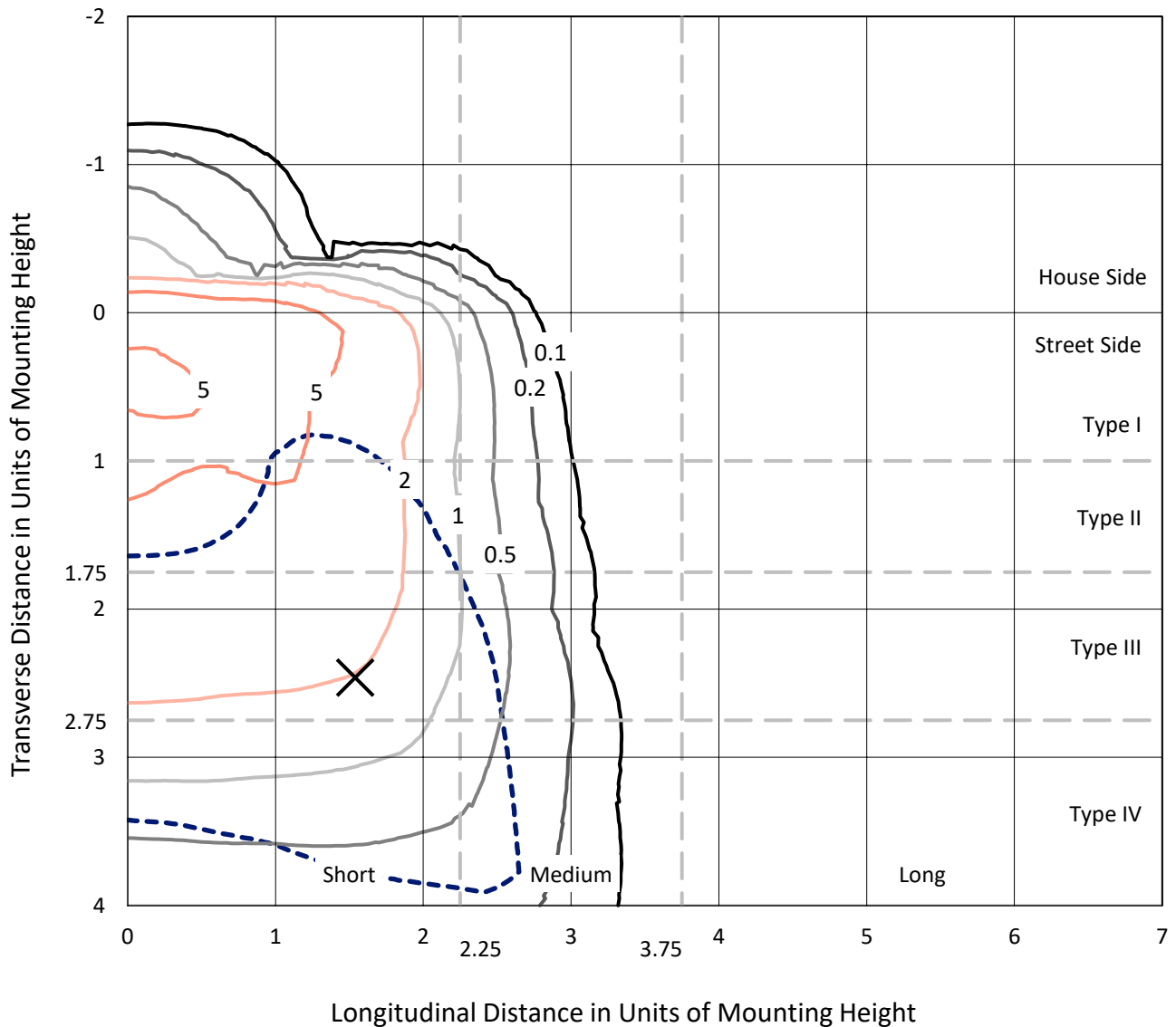
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

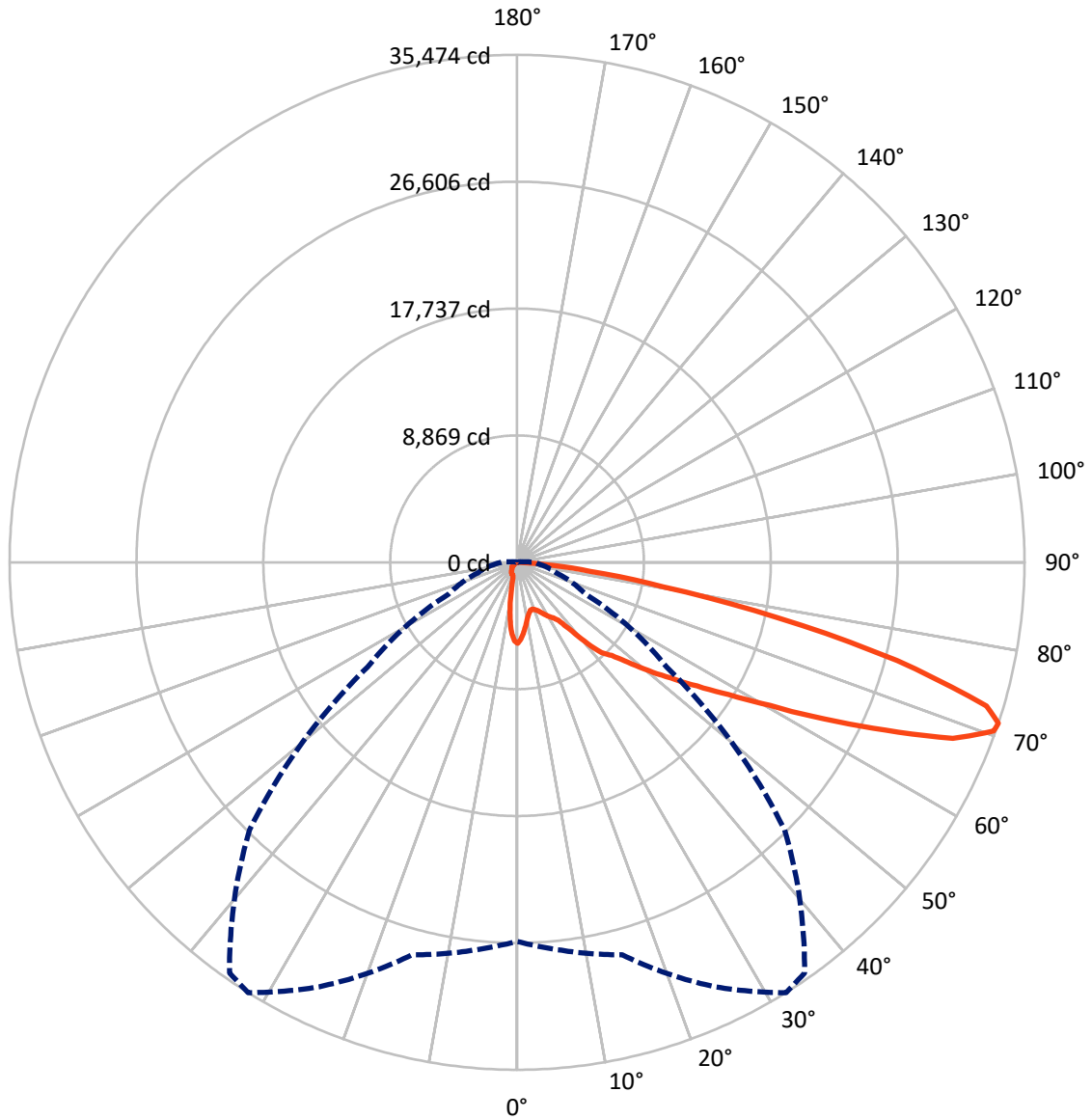
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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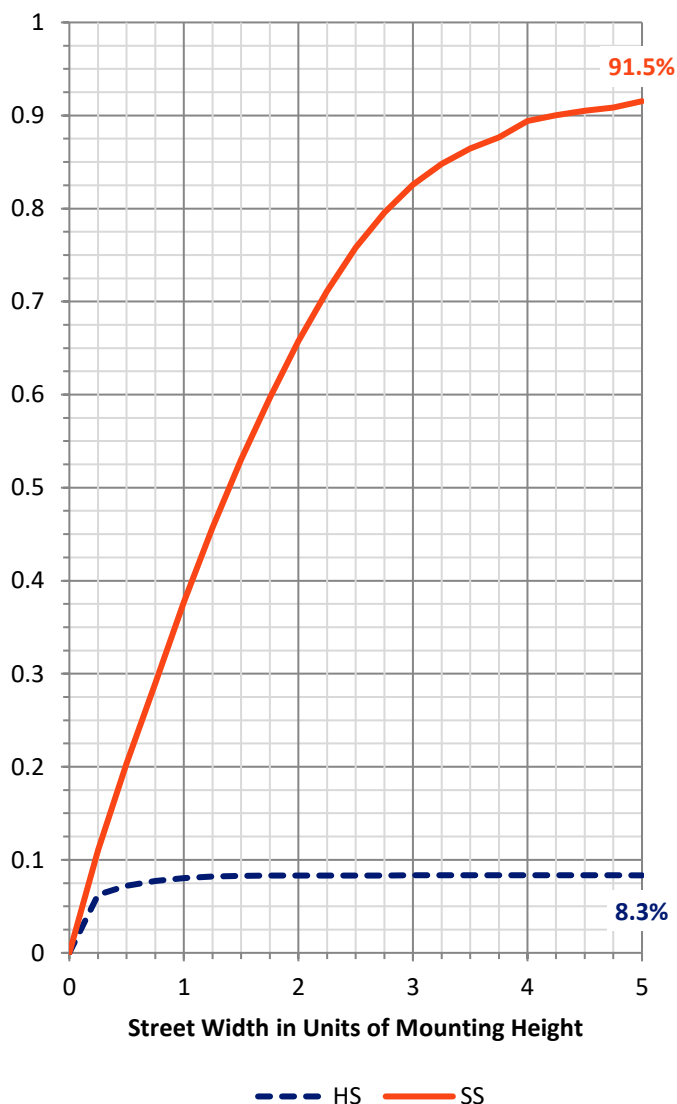
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2950.1 | 0.0 | 2950.1 |
| | % Fixture | 8.4 | 0.0 | 8.4 |
| Street Side | Lumens | 32270.8 | 0.0 | 32270.8 |
| | % Fixture | 91.6 | 0.0 | 91.6 |
| Total | Lumens | 35220.9 | 0.0 | 35220.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 460.6 | 1.3 |
| 10°-20° | 999.6 | 2.8 |
| 20°-30° | 1555.0 | 4.4 |
| 30°-40° | 2590.7 | 7.4 |
| 40°-50° | 4819.1 | 13.7 |
| 50°-60° | 7737.2 | 22.0 |
| 60°-70° | 10406.9 | 29.5 |
| 70°-80° | 6174.6 | 17.5 |
| 80°-90° | 477.3 | 1.4 |
| 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° | 35220.9 | 100.0 |
| 0°-180° | 35220.9 | 100.0 |

Coefficient of Utilization

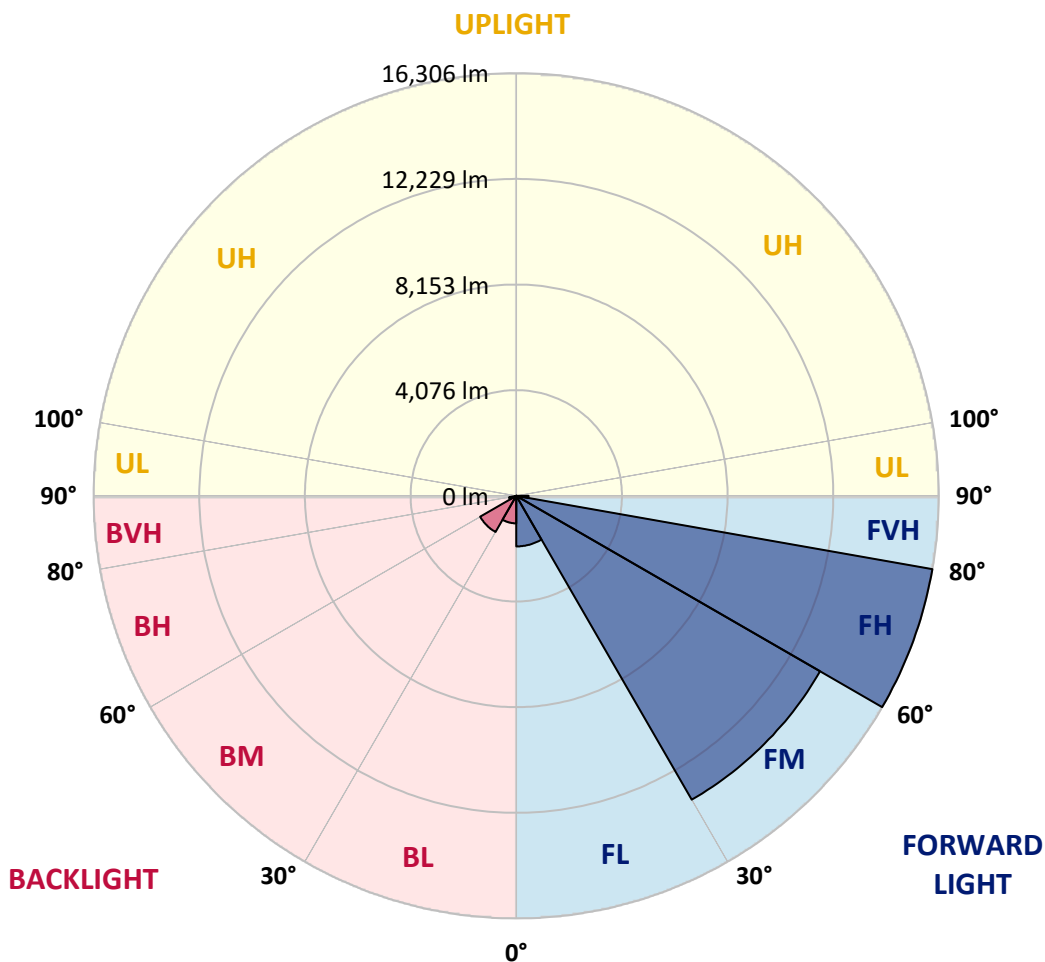


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1952.2 | 5.5 | | | |
| FM (30°-60°) | 13537.6 | 38.4 | | | |
| FH (60°-80°) | 16305.6 | 46.3 | | | G5 |
| FVH (80°-90°) | 475.4 | 1.3 | | | G3/500 |
| BL (0°-30°) | 1063.0 | 3.0 | B3/2500 | | |
| BM (30°-60°) | 1609.4 | 4.6 | B2/2500 | | |
| BH (60°-80°) | 275.9 | 0.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.9 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 32° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5664.1 | 5664.1 | 5664.1 | 5664.1 | 5664.1 | 5664.1 | 5664.1 | 5664.1 | 5664.1 | 5664.1 | 5664.1 |
| 2.5° | 5253.1 | 5307.2 | 5299.1 | 5318.0 | 5363.9 | 5382.9 | 5434.3 | 5491.0 | 5569.5 | 5623.5 | 5658.7 |
| 5° | 4704.3 | 4744.8 | 4750.2 | 4844.9 | 4890.9 | 4942.2 | 5093.6 | 5258.5 | 5442.4 | 5588.3 | 5685.7 |
| 7.5° | 4117.6 | 4139.3 | 4182.5 | 4306.9 | 4423.1 | 4474.5 | 4704.3 | 4990.8 | 5280.2 | 5553.2 | 5729.0 |
| 10° | 3633.7 | 3658.0 | 3736.4 | 3868.9 | 3977.0 | 4044.6 | 4363.7 | 4723.2 | 5128.7 | 5534.3 | 5791.1 |
| 12.5° | 3357.9 | 3371.4 | 3401.1 | 3520.1 | 3658.0 | 3731.0 | 4074.3 | 4485.3 | 5007.1 | 5542.4 | 5896.6 |
| 15° | 3338.9 | 3333.5 | 3298.4 | 3347.1 | 3471.4 | 3547.1 | 3882.4 | 4323.1 | 4898.9 | 5569.5 | 6021.0 |
| 17.5° | 3439.0 | 3425.5 | 3341.7 | 3341.7 | 3444.4 | 3506.6 | 3801.3 | 4236.6 | 4844.9 | 5631.6 | 6196.7 |
| 20° | 3593.1 | 3571.5 | 3433.6 | 3422.8 | 3522.8 | 3587.7 | 3849.9 | 4242.0 | 4855.7 | 5747.8 | 6431.9 |
| 22.5° | 3787.8 | 3763.4 | 3555.3 | 3560.7 | 3668.8 | 3733.7 | 3990.6 | 4339.3 | 4923.3 | 5891.2 | 6683.3 |
| 25° | 4041.9 | 4014.8 | 3768.8 | 3758.0 | 3871.5 | 3928.4 | 4198.7 | 4512.4 | 5017.9 | 6069.6 | 7013.2 |
| 27.5° | 4379.9 | 4323.1 | 4028.4 | 4012.2 | 4133.8 | 4206.8 | 4450.2 | 4744.8 | 5185.5 | 6315.7 | 7456.6 |
| 30° | 4658.3 | 4596.1 | 4315.0 | 4271.7 | 4401.5 | 4458.2 | 4709.7 | 5058.5 | 5515.4 | 6745.5 | 8070.3 |
| 32.5° | 5023.3 | 4931.4 | 4601.5 | 4488.0 | 4625.9 | 4698.9 | 5085.5 | 5642.5 | 6004.7 | 7199.8 | 8800.3 |
| 35° | 5845.3 | 5788.4 | 5385.6 | 4988.2 | 4980.0 | 5072.0 | 5639.7 | 6231.8 | 6507.6 | 7908.1 | 9795.2 |
| 37.5° | 7021.3 | 6980.8 | 6553.6 | 6021.0 | 5866.9 | 5823.6 | 6312.9 | 6880.7 | 7310.6 | 8881.3 | 10952.4 |
| 40° | 8386.6 | 8292.0 | 7899.9 | 7448.4 | 7248.4 | 7121.3 | 7107.8 | 7845.9 | 8359.5 | 10203.4 | 12158.2 |
| 42.5° | 9365.3 | 9192.3 | 8716.4 | 8684.0 | 8640.7 | 8508.3 | 8124.3 | 9257.2 | 9714.1 | 11625.5 | 13447.8 |
| 45° | 10392.7 | 10130.5 | 9422.1 | 9300.4 | 9284.2 | 9276.1 | 9660.0 | 10928.0 | 11190.2 | 13166.6 | 14772.5 |
| 47.5° | 11190.2 | 10982.0 | 10400.8 | 10346.7 | 10414.3 | 10598.1 | 11690.4 | 12701.6 | 12647.5 | 14540.1 | 15883.7 |
| 50° | 12252.8 | 12095.9 | 11449.8 | 11552.5 | 11901.3 | 12201.4 | 13980.4 | 14634.7 | 13845.2 | 15621.5 | 16692.2 |
| 52.5° | 13507.2 | 13218.0 | 12617.7 | 12896.2 | 13431.6 | 13931.8 | 16411.0 | 16327.1 | 14686.0 | 16435.2 | 17295.0 |
| 55° | 14594.1 | 14388.6 | 14183.2 | 14472.4 | 15272.7 | 15897.2 | 18606.3 | 17595.1 | 15297.1 | 17089.5 | 17559.9 |
| 57.5° | 16432.6 | 16383.9 | 16173.0 | 16467.7 | 17438.3 | 18087.1 | 20571.8 | 18579.3 | 15689.0 | 17430.2 | 17249.0 |
| 60° | 19152.4 | 19074.0 | 18682.0 | 19057.8 | 20323.1 | 21342.3 | 22383.2 | 19463.3 | 15778.3 | 17297.7 | 16354.1 |
| 62.5° | 22423.8 | 22156.1 | 21820.9 | 22375.1 | 24110.8 | 24559.7 | 24089.2 | 19987.8 | 15445.8 | 16243.3 | 14196.7 |
| 65° | 25478.9 | 25203.1 | 25211.2 | 26379.2 | 28269.0 | 28574.5 | 26079.1 | 19909.4 | 14472.4 | 13601.9 | 10471.1 |
| 67.5° | 27817.5 | 27771.5 | 28101.4 | 30380.5 | 32851.6 | 32640.8 | 27858.0 | 18736.0 | 11587.7 | 8816.5 | 5564.1 |
| 70° | 27936.4 | 28025.7 | 28971.9 | 32819.2 | 35328.1 | 34992.9 | 27706.6 | 15229.4 | 7224.0 | 4055.4 | 2192.6 |
| 71° | 26498.1 | 27098.3 | 28406.8 | 32743.5 | 35474.1 | 35038.9 | 26430.6 | 12755.6 | 5299.1 | 2828.0 | 1581.6 |
| 72.5° | 22580.6 | 22896.9 | 25724.9 | 30815.8 | 34319.7 | 33389.6 | 23194.3 | 8940.8 | 3393.1 | 1730.4 | 908.4 |
| 75° | 12436.6 | 13215.2 | 17227.4 | 24175.8 | 27449.8 | 26633.3 | 15115.9 | 4247.4 | 1692.5 | 946.3 | 375.8 |
| 77.5° | 5920.9 | 5769.5 | 8405.5 | 14377.8 | 18611.7 | 18568.5 | 7616.1 | 1887.1 | 986.8 | 640.7 | 189.3 |
| 80° | 1692.5 | 1903.3 | 3217.3 | 6834.7 | 10333.3 | 10446.8 | 2925.3 | 911.1 | 684.0 | 500.2 | 97.3 |
| 82.5° | 511.0 | 521.8 | 1181.5 | 3022.6 | 5139.5 | 4844.9 | 1097.7 | 465.0 | 492.0 | 397.5 | 56.8 |
| 85° | 89.2 | 110.9 | 348.7 | 1065.2 | 1960.1 | 1487.0 | 275.8 | 221.7 | 324.4 | 262.2 | 32.4 |
| 87.5° | 5.4 | 8.1 | 116.3 | 121.7 | 173.0 | 100.1 | 48.7 | 32.4 | 70.3 | 70.3 | 18.9 |
| 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° | 5664.1 | 5664.1 | 5664.1 | 5664.1 | 5664.1 | 5664.1 | 5664.1 | 5664.1 | 5664.1 | 5664.1 | 5664.1 |
| 2.5° | 5683.0 | 5699.2 | 5688.4 | 5664.1 | 5623.5 | 5574.9 | 5510.0 | 5455.9 | 5409.9 | 5385.6 | 5415.3 |
| 5° | 5718.2 | 5739.8 | 5685.7 | 5564.1 | 5380.2 | 5180.1 | 4953.0 | 4777.3 | 4639.4 | 4596.1 | 4579.9 |
| 7.5° | 5772.2 | 5785.7 | 5639.7 | 5369.3 | 4980.0 | 4506.9 | 4093.3 | 3744.5 | 3474.2 | 3393.1 | 3274.1 |
| 10° | 5842.5 | 5834.4 | 5558.6 | 5055.8 | 4371.7 | 3660.7 | 3020.0 | 2544.1 | 2184.5 | 2054.7 | 2043.9 |
| 12.5° | 5950.6 | 5907.4 | 5455.9 | 4628.6 | 3647.2 | 2717.2 | 1925.0 | 1505.9 | 1278.8 | 1203.1 | 1186.9 |
| 15° | 6085.9 | 5983.1 | 5293.7 | 4128.4 | 2792.8 | 1754.6 | 1186.9 | 1059.8 | 1030.1 | 1024.6 | 1019.2 |
| 17.5° | 6245.4 | 6083.1 | 5080.1 | 3514.7 | 1962.8 | 1138.2 | 992.2 | 989.6 | 992.2 | 986.8 | 984.2 |
| 20° | 6461.6 | 6188.6 | 4825.9 | 2787.4 | 1297.7 | 959.8 | 946.3 | 946.3 | 949.0 | 946.3 | 946.3 |
| 22.5° | 6691.4 | 6312.9 | 4512.4 | 2127.7 | 978.7 | 911.1 | 908.4 | 913.8 | 919.2 | 916.5 | 916.5 |
| 25° | 6975.4 | 6475.2 | 4098.7 | 1457.2 | 875.9 | 870.5 | 873.3 | 884.1 | 894.9 | 897.6 | 894.9 |
| 27.5° | 7386.3 | 6675.2 | 3655.3 | 1003.0 | 803.0 | 808.4 | 835.4 | 862.5 | 878.7 | 881.3 | 881.3 |
| 30° | 7848.6 | 6896.9 | 3076.7 | 813.8 | 743.5 | 743.5 | 776.0 | 827.3 | 862.5 | 867.9 | 870.5 |
| 32.5° | 8443.4 | 7153.8 | 2436.0 | 732.7 | 686.7 | 681.3 | 711.0 | 773.2 | 838.1 | 857.1 | 857.1 |
| 35° | 9178.8 | 7456.6 | 1811.4 | 681.3 | 646.1 | 632.7 | 648.9 | 700.2 | 784.0 | 838.1 | 843.5 |
| 37.5° | 10041.2 | 7743.2 | 1324.8 | 635.3 | 608.3 | 589.4 | 600.2 | 640.7 | 708.4 | 789.4 | 811.1 |
| 40° | 10838.8 | 7997.3 | 989.6 | 597.5 | 570.5 | 556.9 | 565.1 | 584.0 | 640.7 | 716.4 | 730.0 |
| 42.5° | 11709.4 | 8194.6 | 786.8 | 556.9 | 532.6 | 527.2 | 527.2 | 535.3 | 573.2 | 616.5 | 619.1 |
| 45° | 12577.3 | 8265.0 | 659.7 | 508.2 | 492.0 | 497.4 | 494.8 | 489.4 | 505.6 | 500.2 | 500.2 |
| 47.5° | 13196.4 | 8181.2 | 546.1 | 462.3 | 462.3 | 470.4 | 456.9 | 438.0 | 429.9 | 397.5 | 400.1 |
| 50° | 13620.8 | 7875.6 | 448.8 | 408.3 | 429.9 | 440.7 | 413.7 | 383.9 | 354.2 | 319.0 | 310.9 |
| 52.5° | 13796.5 | 7332.2 | 367.7 | 337.9 | 381.2 | 394.7 | 362.3 | 327.1 | 281.2 | 251.4 | 243.4 |
| 55° | 13683.0 | 6661.7 | 305.5 | 275.8 | 321.7 | 337.9 | 305.5 | 265.0 | 213.6 | 181.1 | 175.7 |
| 57.5° | 13182.8 | 5861.5 | 259.6 | 219.0 | 256.8 | 267.6 | 246.0 | 202.8 | 151.4 | 118.9 | 118.9 |
| 60° | 12317.7 | 5034.1 | 210.9 | 173.0 | 192.0 | 208.2 | 186.5 | 146.0 | 102.7 | 73.0 | 67.6 |
| 62.5° | 10563.0 | 4087.9 | 170.3 | 135.1 | 135.1 | 148.7 | 129.7 | 105.5 | 64.9 | 37.8 | 35.2 |
| 65° | 7626.9 | 2803.6 | 135.1 | 100.1 | 97.3 | 97.3 | 81.1 | 70.3 | 37.8 | 16.2 | 10.8 |
| 67.5° | 4144.7 | 1581.6 | 108.1 | 75.7 | 67.6 | 64.9 | 51.4 | 40.6 | 16.2 | 2.7 | 0.0 |
| 70° | 1630.3 | 608.3 | 83.8 | 51.4 | 43.2 | 40.6 | 27.0 | 18.9 | 10.8 | 0.0 | 0.0 |
| 71° | 1105.8 | 419.1 | 73.0 | 43.2 | 35.2 | 29.8 | 21.6 | 16.2 | 8.1 | 0.0 | 0.0 |
| 72.5° | 632.7 | 259.6 | 56.8 | 32.4 | 27.0 | 21.6 | 16.2 | 10.8 | 8.1 | 0.0 | 0.0 |
| 75° | 275.8 | 132.5 | 35.2 | 24.4 | 18.9 | 13.5 | 10.8 | 8.1 | 2.7 | 0.0 | 0.0 |
| 77.5° | 140.6 | 73.0 | 24.4 | 18.9 | 10.8 | 8.1 | 5.4 | 2.7 | 0.0 | 0.0 | 0.0 |
| 80° | 78.4 | 37.8 | 16.2 | 10.8 | 8.1 | 5.4 | 2.7 | 2.7 | 0.0 | 0.0 | 0.0 |
| 82.5° | 43.2 | 21.6 | 8.1 | 5.4 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 27.0 | 13.5 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 13.5 | 5.4 | 0.0 | 0.0 | 0.0 | 0.0 | 2.7 | 2.7 | 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)