

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: P650468

Luminaire Tested: **GLAN-SA6B-835-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650468
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA6B-835-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25860.9 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

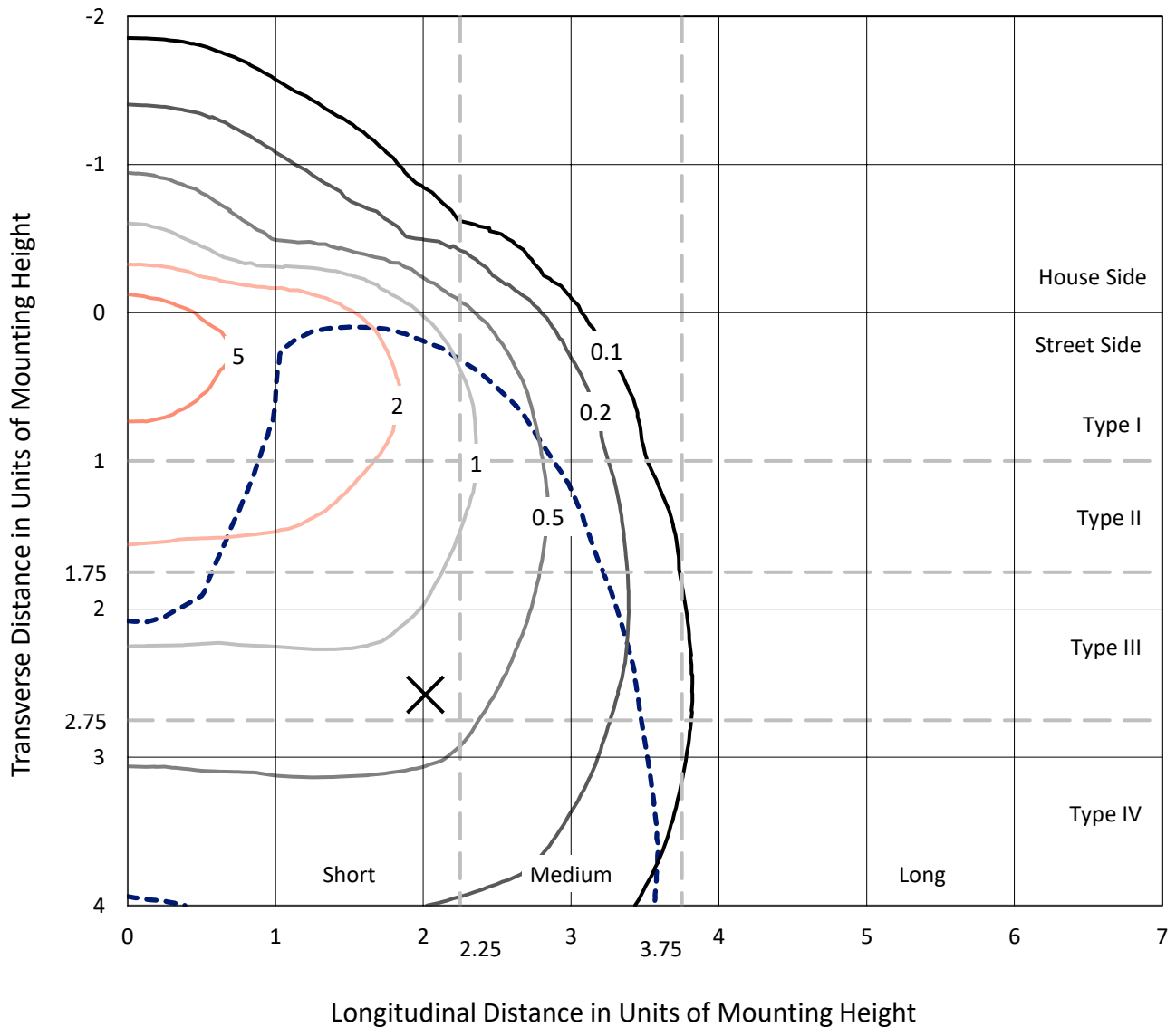
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

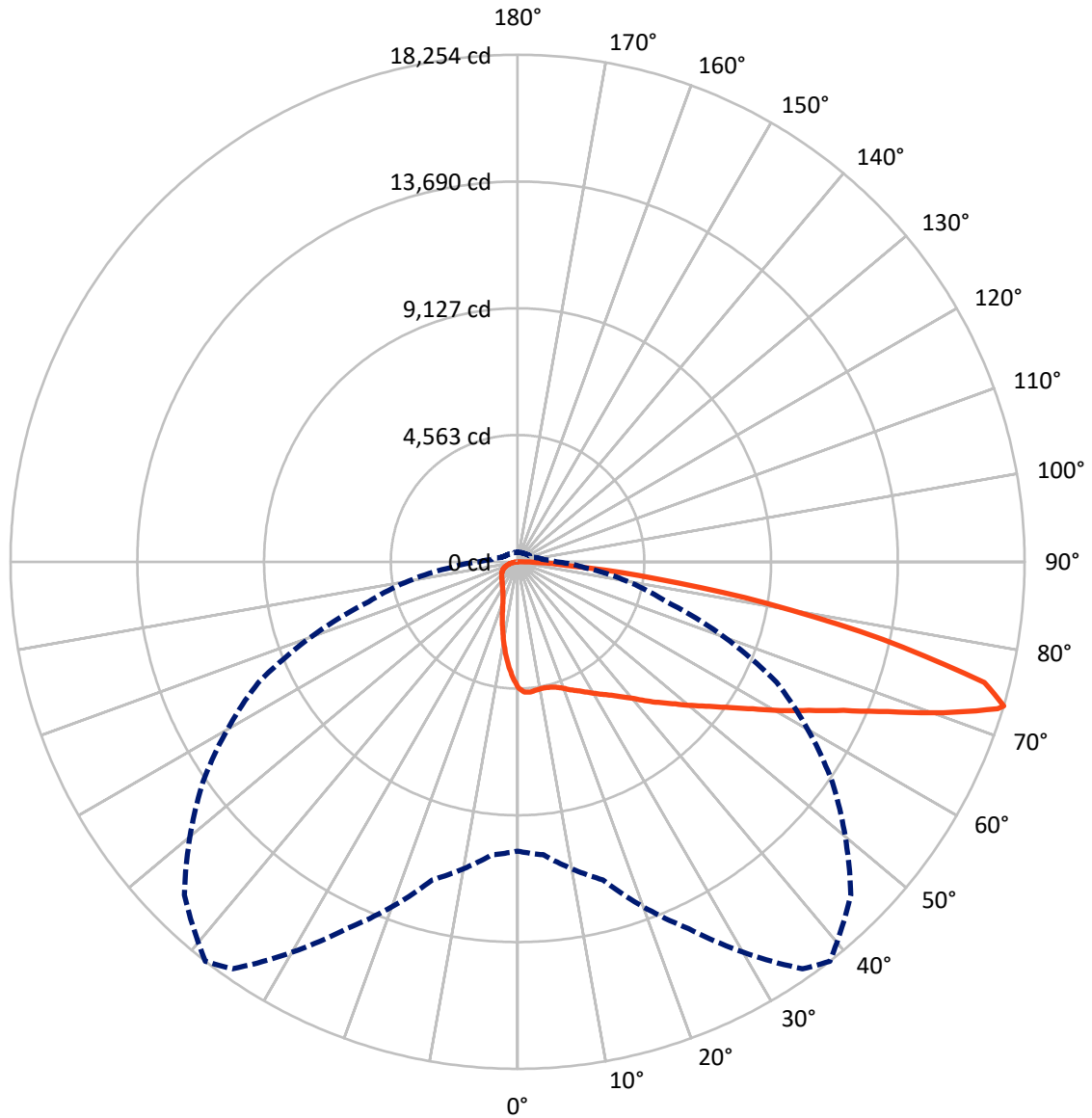
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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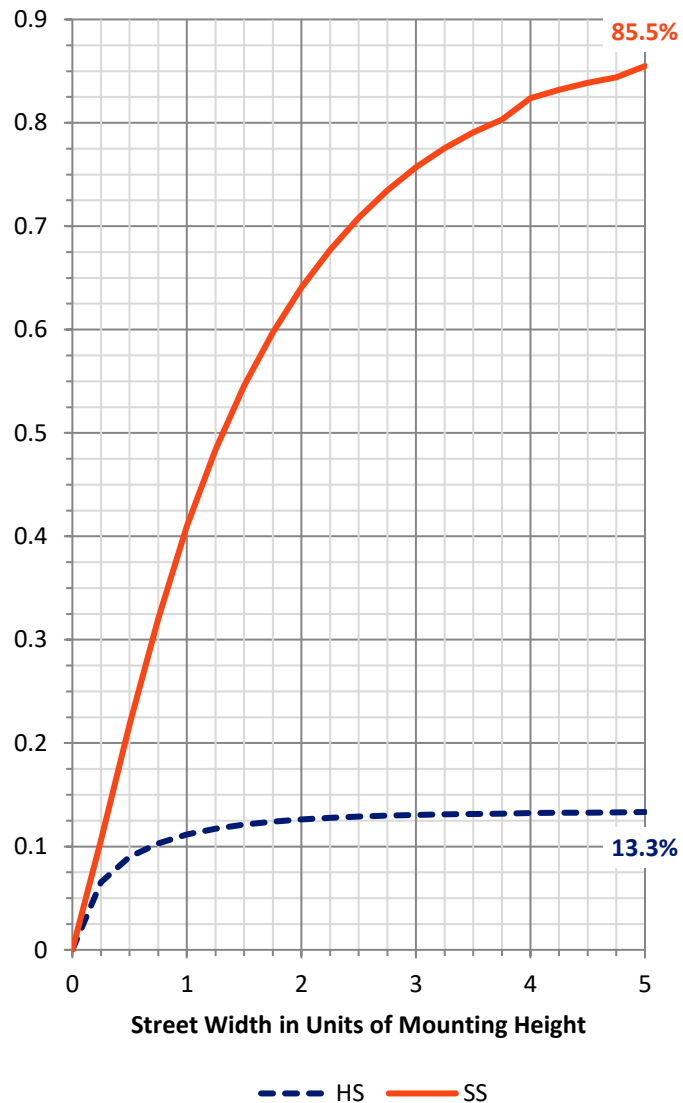
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3476.5 | 0.0 | 3476.5 |
| | % Fixture | 13.4 | 0.0 | 13.4 |
| Street Side | Lumens | 22384.4 | 0.0 | 22384.4 |
| | % Fixture | 86.6 | 0.0 | 86.6 |
| Total | Lumens | 25860.9 | 0.0 | 25860.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 396.6 | 1.5 |
| 10°-20° | 1017.0 | 3.9 |
| 20°-30° | 1583.6 | 6.1 |
| 30°-40° | 2322.8 | 9.0 |
| 40°-50° | 3445.6 | 13.3 |
| 50°-60° | 4881.7 | 18.9 |
| 60°-70° | 6192.6 | 23.9 |
| 70°-80° | 5154.9 | 19.9 |
| 80°-90° | 866.1 | 3.3 |
| 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° | 25860.9 | 100.0 |
| 0°-180° | 25860.9 | 100.0 |

Coefficient of Utilization



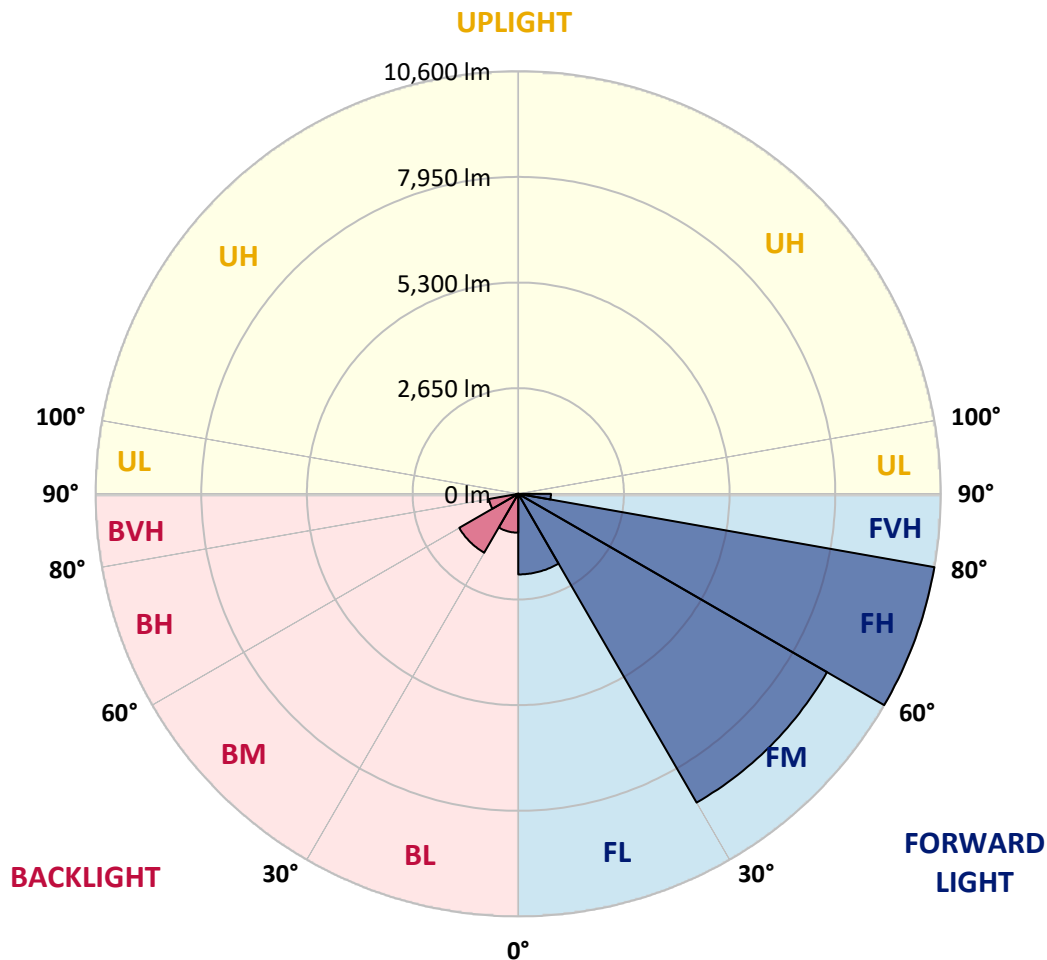
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2021.6 | 7.8 | | | |
| FM (30°-60°) | 8943.4 | 34.6 | | | |
| FH (60°-80°) | 10600.3 | 41.0 | | | G4/12000 |
| FVH (80°-90°) | 819.1 | 3.2 | | | G5 |
| BL (0°-30°) | 975.5 | 3.8 | B2/1000 | | |
| BM (30°-60°) | 1706.7 | 6.6 | B2/2500 | | |
| BH (60°-80°) | 747.2 | 2.9 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 47.0 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 38° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0° | 4543.4 | 4543.4 | 4543.4 | 4543.4 | 4543.4 | 4543.4 | 4543.4 | 4543.4 | 4543.4 | 4543.4 | 4543.4 |
| 2.5° | 4725.9 | 4749.2 | 4737.5 | 4721.5 | 4711.3 | 4701.1 | 4686.4 | 4644.1 | 4610.5 | 4574.0 | 4517.0 |
| 5° | 4761.0 | 4775.5 | 4765.3 | 4744.8 | 4721.5 | 4711.3 | 4683.5 | 4628.0 | 4574.0 | 4512.7 | 4427.9 |
| 7.5° | 4740.5 | 4746.3 | 4734.6 | 4709.8 | 4689.4 | 4670.4 | 4638.3 | 4576.9 | 4511.2 | 4436.7 | 4325.8 |
| 10° | 4667.5 | 4689.4 | 4689.4 | 4669.0 | 4648.5 | 4638.3 | 4606.2 | 4547.7 | 4487.8 | 4403.1 | 4271.7 |
| 12.5° | 4607.6 | 4631.0 | 4649.9 | 4644.1 | 4642.6 | 4642.6 | 4617.8 | 4574.0 | 4503.9 | 4423.6 | 4267.3 |
| 15° | 4566.7 | 4594.4 | 4635.4 | 4658.7 | 4673.3 | 4677.7 | 4667.5 | 4629.5 | 4557.9 | 4464.4 | 4284.8 |
| 17.5° | 4557.9 | 4591.5 | 4666.0 | 4717.1 | 4755.1 | 4753.6 | 4750.7 | 4698.2 | 4619.2 | 4522.8 | 4306.7 |
| 20° | 4597.4 | 4641.2 | 4744.8 | 4825.2 | 4880.7 | 4870.5 | 4854.4 | 4785.8 | 4693.8 | 4585.6 | 4327.2 |
| 22.5° | 4715.6 | 4761.0 | 4874.8 | 4962.5 | 5016.5 | 5016.5 | 4968.3 | 4877.8 | 4779.9 | 4658.7 | 4355.0 |
| 25° | 4885.1 | 4934.7 | 5055.9 | 5145.0 | 5169.8 | 5150.9 | 5102.7 | 4993.1 | 4880.7 | 4763.9 | 4413.4 |
| 27.5° | 5092.5 | 5152.3 | 5264.7 | 5339.3 | 5331.9 | 5317.4 | 5267.7 | 5127.5 | 5015.0 | 4908.4 | 4512.7 |
| 30° | 5350.9 | 5394.7 | 5511.5 | 5529.1 | 5502.8 | 5499.9 | 5429.8 | 5289.6 | 5184.5 | 5102.7 | 4654.3 |
| 32.5° | 5594.8 | 5634.2 | 5727.7 | 5735.0 | 5688.3 | 5694.1 | 5628.4 | 5499.9 | 5440.0 | 5410.8 | 4892.3 |
| 35° | 5853.3 | 5873.8 | 5954.1 | 5945.3 | 5914.6 | 5910.2 | 5884.0 | 5761.3 | 5780.3 | 5832.9 | 5229.7 |
| 37.5° | 6069.4 | 6110.4 | 6155.6 | 6162.9 | 6161.4 | 6176.1 | 6193.6 | 6135.2 | 6244.7 | 6409.7 | 5672.2 |
| 40° | 6268.1 | 6303.2 | 6370.3 | 6393.7 | 6450.6 | 6479.8 | 6539.7 | 6541.2 | 6793.8 | 7065.5 | 6216.9 |
| 42.5° | 6402.4 | 6462.3 | 6587.9 | 6630.2 | 6769.0 | 6856.6 | 6945.7 | 7040.7 | 7407.2 | 7756.2 | 6859.5 |
| 45° | 6519.3 | 6598.1 | 6806.9 | 6938.4 | 7126.8 | 7233.4 | 7421.8 | 7620.4 | 8147.6 | 8604.7 | 7512.3 |
| 47.5° | 6696.0 | 6766.1 | 7005.6 | 7237.7 | 7522.6 | 7645.2 | 7927.1 | 8223.5 | 8912.9 | 9413.8 | 8137.4 |
| 50° | 6941.3 | 6983.7 | 7227.6 | 7605.8 | 7969.5 | 8127.1 | 8499.5 | 8927.5 | 9730.7 | 10212.6 | 8686.5 |
| 52.5° | 7255.3 | 7272.8 | 7467.1 | 7970.9 | 8449.9 | 8645.6 | 9139.3 | 9638.7 | 10446.3 | 10906.3 | 9121.7 |
| 55° | 7626.3 | 7597.1 | 7748.9 | 8357.9 | 8999.0 | 9254.6 | 9784.8 | 10358.7 | 11251.0 | 11467.1 | 9438.6 |
| 57.5° | 7992.8 | 7947.5 | 8068.7 | 8828.2 | 9676.6 | 9984.8 | 10602.5 | 11100.6 | 11969.5 | 11991.4 | 9660.6 |
| 60° | 8381.3 | 8347.7 | 8492.3 | 9380.2 | 10507.6 | 10872.7 | 11443.8 | 11870.2 | 12664.6 | 12356.5 | 9695.7 |
| 62.5° | 8779.9 | 8725.9 | 8931.8 | 10000.9 | 11443.8 | 11775.2 | 12328.7 | 12688.0 | 13346.6 | 12492.3 | 9358.3 |
| 65° | 9167.0 | 9142.2 | 9460.5 | 10738.4 | 12509.8 | 12886.6 | 13424.1 | 13668.0 | 13892.8 | 12287.9 | 8521.5 |
| 67.5° | 9578.8 | 9628.5 | 10136.7 | 11722.7 | 13900.1 | 14373.3 | 14953.1 | 14723.8 | 14049.1 | 11319.6 | 7176.4 |
| 70° | 10206.8 | 10238.9 | 11024.6 | 13012.2 | 15692.1 | 16263.1 | 16543.5 | 15099.1 | 13295.6 | 9481.0 | 5394.7 |
| 72.5° | 10476.9 | 10618.7 | 11817.6 | 14366.0 | 17727.9 | 18076.9 | 17078.0 | 14262.3 | 11075.7 | 6440.4 | 2834.6 |
| 73° | 10417.1 | 10586.5 | 11854.2 | 14571.9 | 17887.1 | 18253.6 | 16964.1 | 13831.5 | 10295.9 | 5546.6 | 2430.1 |
| 75° | 9670.8 | 9879.7 | 11379.5 | 14399.6 | 17577.5 | 17358.4 | 15132.7 | 11788.4 | 6957.3 | 2522.1 | 1107.0 |
| 77.5° | 7630.6 | 7690.5 | 9016.6 | 11627.8 | 13841.7 | 13435.7 | 11325.5 | 7367.7 | 2842.0 | 937.6 | 628.0 |
| 80° | 3827.7 | 4048.3 | 5082.2 | 6660.9 | 9256.1 | 9123.1 | 7148.7 | 3484.5 | 1184.4 | 550.6 | 416.2 |
| 82.5° | 1841.5 | 1997.8 | 2475.4 | 3248.0 | 5114.3 | 4993.1 | 3540.0 | 1904.3 | 752.1 | 321.3 | 245.3 |
| 85° | 1185.9 | 1302.7 | 1575.8 | 1549.5 | 2103.0 | 2008.1 | 1590.4 | 1441.4 | 445.4 | 168.0 | 170.9 |
| 87.5° | 782.8 | 857.2 | 1028.2 | 822.2 | 765.2 | 692.3 | 702.4 | 812.0 | 87.6 | 64.3 | 23.3 |
| 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° | 4543.4 | 4543.4 | 4543.4 | 4543.4 | 4543.4 | 4543.4 | 4543.4 | 4543.4 | 4543.4 | 4543.4 | 4543.4 |
| 2.5° | 4493.6 | 4474.7 | 4411.9 | 4350.6 | 4292.2 | 4236.7 | 4200.2 | 4151.9 | 4119.8 | 4128.6 | 4141.7 |
| 5° | 4381.2 | 4338.8 | 4227.9 | 4119.8 | 4017.6 | 3896.4 | 3798.5 | 3719.6 | 3659.7 | 3637.9 | 3633.5 |
| 7.5° | 4263.0 | 4191.4 | 4032.2 | 3846.7 | 3672.9 | 3522.5 | 3348.7 | 3262.5 | 3161.8 | 3126.8 | 3115.0 |
| 10° | 4191.4 | 4095.0 | 3871.5 | 3613.1 | 3351.6 | 3101.9 | 2913.5 | 2760.2 | 2621.4 | 2595.2 | 2582.0 |
| 12.5° | 4170.9 | 4043.9 | 3743.1 | 3410.0 | 3062.5 | 2755.8 | 2476.9 | 2275.3 | 2141.0 | 2110.3 | 2065.0 |
| 15° | 4159.2 | 4001.5 | 3623.3 | 3205.6 | 2764.5 | 2390.7 | 2097.1 | 1862.1 | 1739.4 | 1657.5 | 1659.0 |
| 17.5° | 4149.0 | 3953.3 | 3488.9 | 2982.1 | 2507.6 | 2076.7 | 1752.5 | 1540.7 | 1428.3 | 1384.5 | 1380.1 |
| 20° | 4134.4 | 3896.4 | 3334.1 | 2747.0 | 2214.0 | 1790.5 | 1496.9 | 1339.2 | 1263.2 | 1226.7 | 1225.3 |
| 22.5° | 4128.6 | 3840.8 | 3182.2 | 2507.6 | 1954.1 | 1569.9 | 1327.5 | 1216.5 | 1168.3 | 1143.5 | 1143.5 |
| 25° | 4143.2 | 3801.5 | 3023.0 | 2279.7 | 1723.3 | 1381.5 | 1210.7 | 1134.7 | 1107.0 | 1093.9 | 1089.5 |
| 27.5° | 4188.4 | 3783.9 | 2865.3 | 2051.9 | 1511.5 | 1253.0 | 1131.8 | 1079.2 | 1058.8 | 1048.6 | 1050.0 |
| 30° | 4274.6 | 3782.4 | 2710.5 | 1827.0 | 1353.8 | 1155.2 | 1069.0 | 1032.5 | 1016.4 | 1010.6 | 1009.1 |
| 32.5° | 4413.4 | 3814.6 | 2558.6 | 1641.5 | 1220.9 | 1073.4 | 1010.6 | 984.3 | 977.0 | 972.6 | 971.2 |
| 35° | 4648.5 | 3905.1 | 2408.2 | 1472.1 | 1118.7 | 1000.4 | 955.1 | 941.9 | 931.8 | 936.2 | 937.6 |
| 37.5° | 4965.4 | 4061.4 | 2265.1 | 1339.2 | 1041.2 | 946.3 | 908.4 | 896.7 | 890.8 | 895.2 | 899.6 |
| 40° | 5390.3 | 4286.3 | 2145.3 | 1232.6 | 985.8 | 901.1 | 867.5 | 857.2 | 851.4 | 858.7 | 860.2 |
| 42.5° | 5859.2 | 4546.3 | 2046.1 | 1149.4 | 940.5 | 863.1 | 831.0 | 819.3 | 814.9 | 819.3 | 820.7 |
| 45° | 6341.1 | 4848.6 | 1994.9 | 1089.5 | 902.6 | 835.4 | 801.8 | 788.6 | 778.4 | 775.5 | 779.9 |
| 47.5° | 6815.7 | 5111.4 | 1993.4 | 1053.0 | 871.9 | 810.6 | 774.0 | 759.4 | 746.3 | 739.0 | 737.5 |
| 50° | 7202.7 | 5320.3 | 2028.5 | 1036.9 | 845.6 | 782.8 | 746.3 | 731.6 | 714.2 | 699.5 | 702.4 |
| 52.5° | 7494.8 | 5456.1 | 2044.6 | 1029.6 | 831.0 | 753.6 | 717.1 | 703.9 | 683.5 | 664.5 | 664.5 |
| 55° | 7683.2 | 5488.2 | 2005.1 | 1022.3 | 819.3 | 722.9 | 683.5 | 671.8 | 651.4 | 632.4 | 632.4 |
| 57.5° | 7747.5 | 5388.9 | 1863.5 | 1004.7 | 807.6 | 696.6 | 649.9 | 639.6 | 623.6 | 604.6 | 601.7 |
| 60° | 7598.5 | 5053.0 | 1615.2 | 952.2 | 784.3 | 668.8 | 613.4 | 609.0 | 603.1 | 587.1 | 585.6 |
| 62.5° | 7024.5 | 4340.3 | 1345.0 | 883.5 | 744.8 | 639.6 | 579.8 | 587.1 | 591.5 | 582.7 | 581.2 |
| 65° | 6069.4 | 3524.0 | 1149.4 | 788.6 | 692.3 | 598.8 | 543.2 | 562.3 | 573.9 | 573.9 | 571.0 |
| 67.5° | 4923.0 | 2706.1 | 968.3 | 706.8 | 626.5 | 543.2 | 502.4 | 517.0 | 525.8 | 522.8 | 530.1 |
| 70° | 3499.1 | 1832.8 | 788.6 | 613.4 | 543.2 | 480.4 | 449.8 | 449.8 | 444.0 | 441.1 | 441.1 |
| 72.5° | 1697.0 | 1047.1 | 639.6 | 512.6 | 463.0 | 410.4 | 385.5 | 375.3 | 363.6 | 362.2 | 354.9 |
| 73° | 1418.1 | 939.1 | 610.4 | 493.6 | 444.0 | 400.1 | 372.4 | 356.3 | 349.1 | 343.2 | 341.7 |
| 75° | 863.1 | 712.7 | 509.7 | 416.2 | 378.3 | 344.7 | 319.9 | 305.2 | 297.9 | 293.5 | 292.1 |
| 77.5° | 568.1 | 531.6 | 395.8 | 318.4 | 289.2 | 268.7 | 258.5 | 243.9 | 239.5 | 233.6 | 233.6 |
| 80° | 423.5 | 406.0 | 283.3 | 224.9 | 207.4 | 189.9 | 186.9 | 184.0 | 172.3 | 165.1 | 162.1 |
| 82.5° | 273.1 | 289.2 | 192.8 | 150.4 | 131.5 | 116.8 | 118.3 | 122.7 | 111.0 | 100.8 | 97.9 |
| 85° | 194.3 | 208.8 | 116.8 | 68.7 | 55.5 | 48.2 | 54.0 | 48.2 | 49.6 | 39.5 | 32.1 |
| 87.5° | 32.1 | 55.5 | 20.4 | 8.8 | 4.4 | 2.9 | 0.0 | 0.0 | 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)