

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: P530311

Luminaire Tested: **GLAN-SA5C-735-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530311
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA5C-735-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19144 lumens
Efficiency: N/A
Efficacy: 71.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

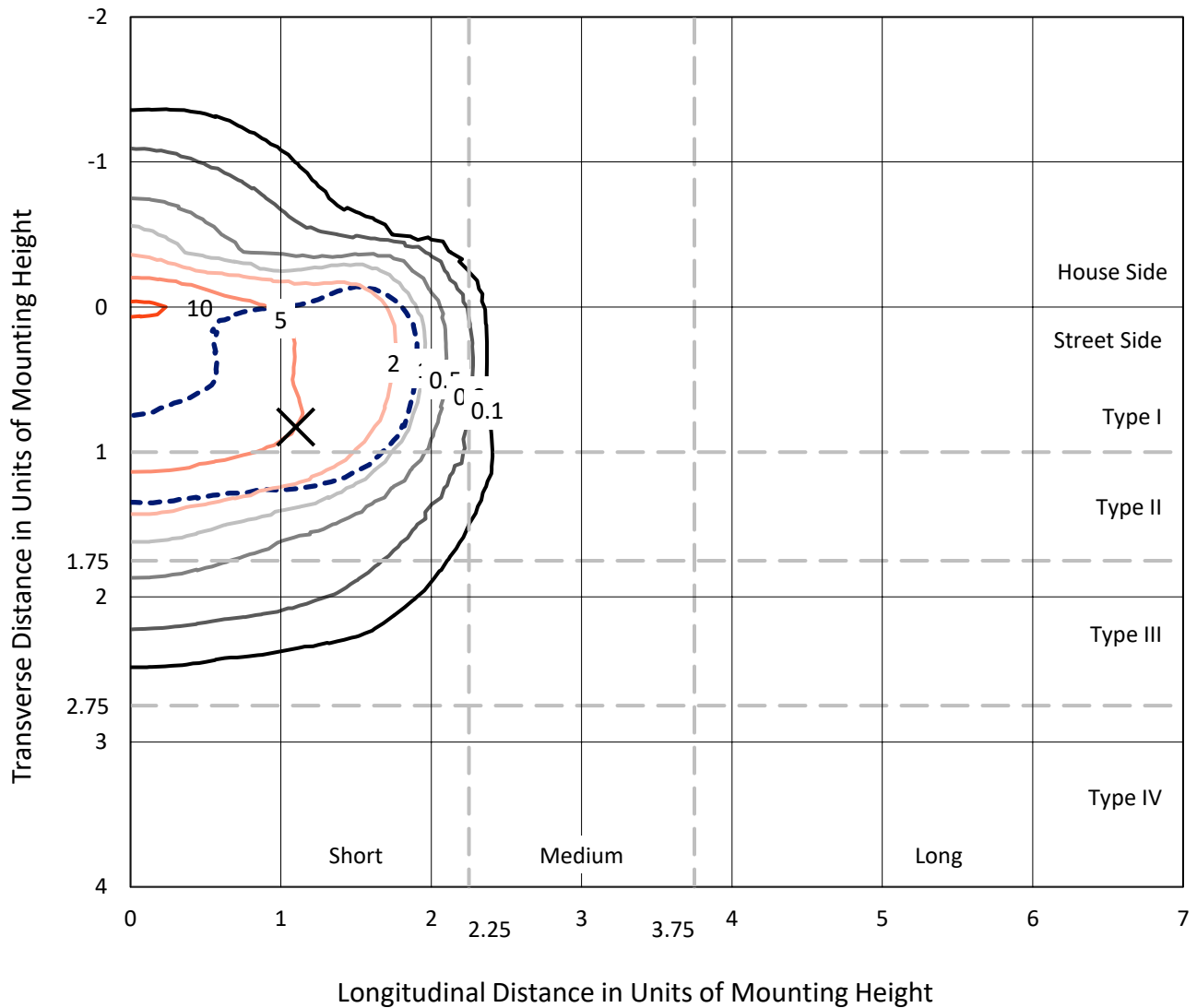
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

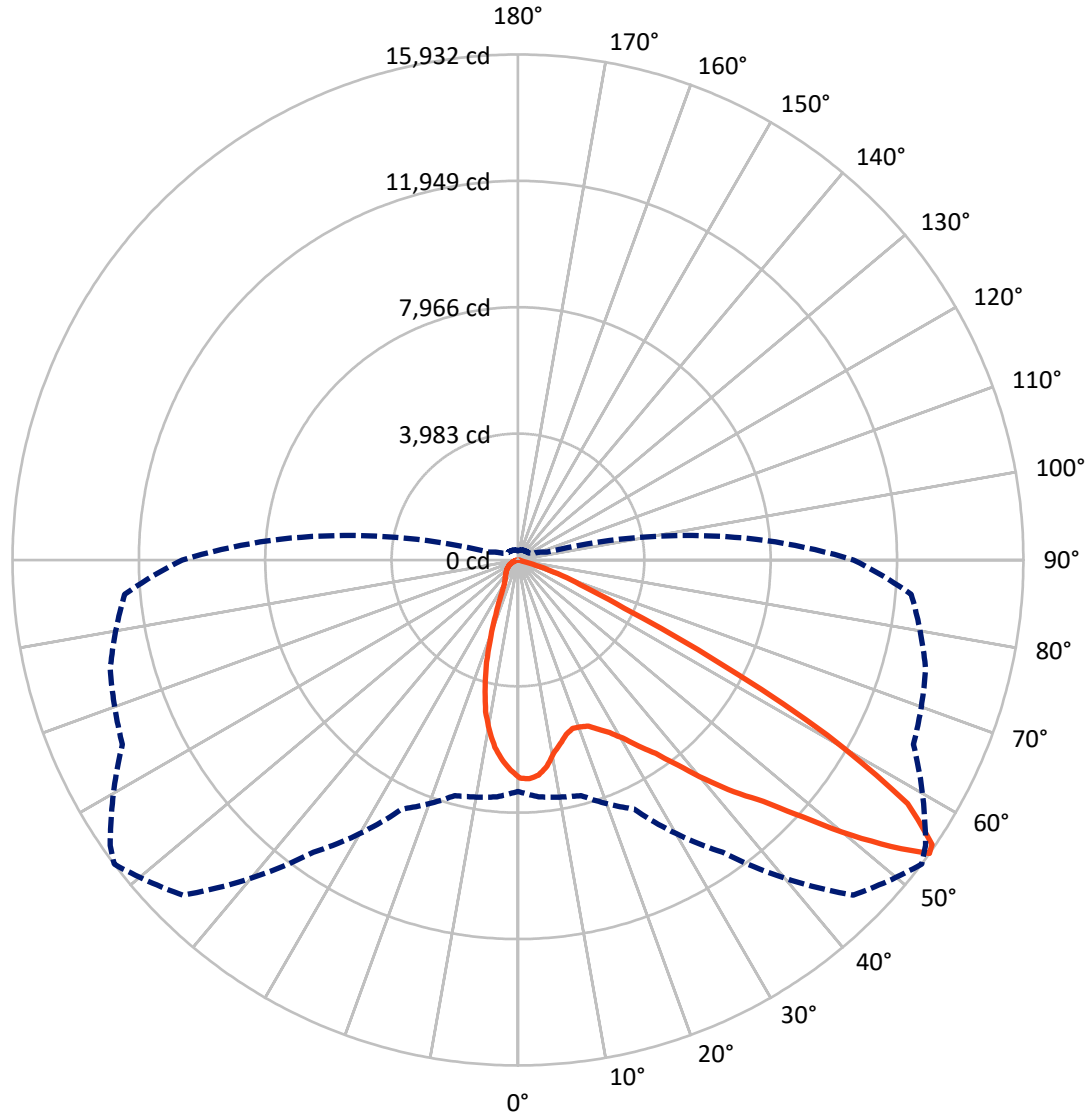
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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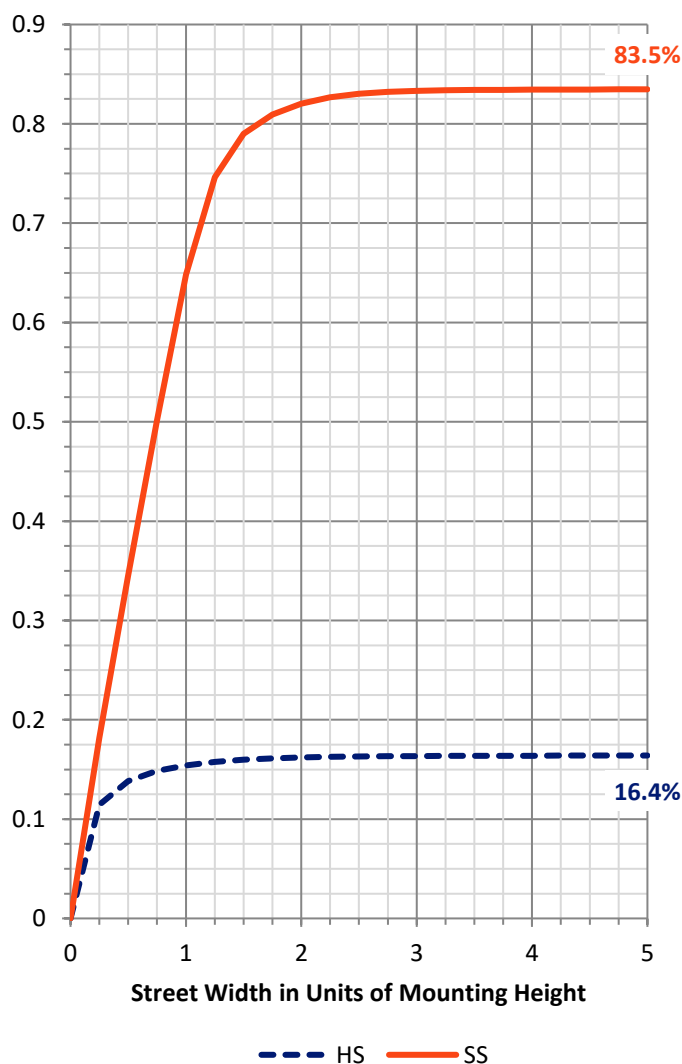
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3167.4 | 0.0 | 3167.4 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 15976.6 | 0.0 | 15976.6 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 19144.0 | 0.0 | 19144.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 590.0 | 3.1 |
| 10°-20° | 1352.6 | 7.1 |
| 20°-30° | 1922.3 | 10.0 |
| 30°-40° | 2966.7 | 15.5 |
| 40°-50° | 4651.4 | 24.3 |
| 50°-60° | 5403.3 | 28.2 |
| 60°-70° | 2041.7 | 10.7 |
| 70°-80° | 194.1 | 1.0 |
| 80°-90° | 21.8 | 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° | 19144.0 | 100.0 |
| 0°-180° | 19144.0 | 100.0 |

Coefficient of Utilization

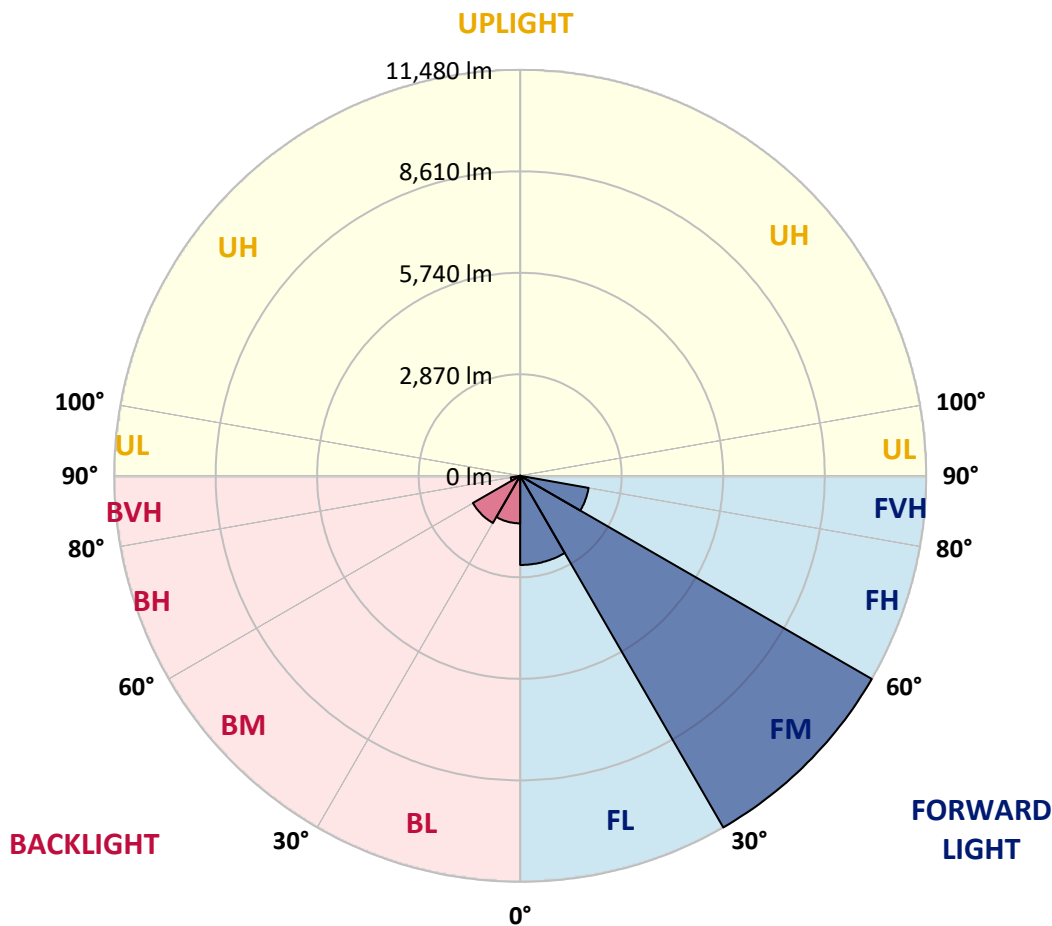


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2520.8 | 13.2 | | | |
| FM (30°-60°) | 11480.1 | 60.0 | | | |
| FH (60°-80°) | 1964.5 | 10.3 | | | G2/5000 |
| FVH (80°-90°) | 11.3 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1344.1 | 7.0 | B3/2500 | | |
| BM (30°-60°) | 1541.4 | 8.1 | B2/2500 | | |
| BH (60°-80°) | 271.4 | 1.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 10.6 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 53° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6876.2 | 6876.2 | 6876.2 | 6876.2 | 6876.2 | 6876.2 | 6876.2 | 6876.2 | 6876.2 | 6876.2 | 6876.2 |
| 2.5° | 6840.5 | 6779.9 | 6840.5 | 6847.7 | 6890.5 | 6929.7 | 6904.7 | 6961.8 | 6929.7 | 6894.0 | 6883.3 |
| 5° | 6287.7 | 6369.8 | 6373.3 | 6501.7 | 6473.2 | 6708.6 | 6812.0 | 6783.5 | 6958.2 | 6947.5 | 6922.6 |
| 7.5° | 5792.0 | 5759.9 | 5802.7 | 5952.5 | 6141.5 | 6412.6 | 6562.4 | 6558.8 | 6808.4 | 6986.8 | 6968.9 |
| 10° | 5331.9 | 5328.3 | 5417.5 | 5535.2 | 5695.7 | 5981.0 | 6187.9 | 6291.3 | 6680.0 | 6951.1 | 6990.3 |
| 12.5° | 5021.6 | 5007.4 | 5103.7 | 5199.9 | 5453.2 | 5674.3 | 5938.2 | 5988.1 | 6434.0 | 6826.3 | 6890.5 |
| 15° | 4818.3 | 4850.4 | 4857.6 | 5043.0 | 5203.5 | 5496.0 | 5702.8 | 5806.3 | 6319.8 | 6726.4 | 6972.5 |
| 17.5° | 4782.7 | 4825.5 | 4829.0 | 4982.4 | 5153.6 | 5399.7 | 5581.6 | 5720.7 | 6223.5 | 6776.3 | 6976.1 |
| 20° | 4854.0 | 4829.0 | 4850.4 | 4946.7 | 5114.4 | 5349.7 | 5613.7 | 5660.0 | 6191.4 | 6801.3 | 7015.3 |
| 22.5° | 5057.3 | 5050.2 | 4996.7 | 5075.1 | 5192.8 | 5438.9 | 5688.6 | 5759.9 | 6284.2 | 6929.7 | 7047.4 |
| 25° | 5282.0 | 5321.2 | 5271.3 | 5260.6 | 5342.6 | 5585.1 | 5916.8 | 6009.5 | 6594.4 | 7161.5 | 7147.3 |
| 27.5° | 5702.8 | 5663.6 | 5663.6 | 5613.7 | 5592.3 | 5710.0 | 6162.9 | 6316.3 | 6940.4 | 7461.1 | 7261.4 |
| 30° | 6105.8 | 6148.6 | 6116.5 | 6134.4 | 5991.7 | 5981.0 | 6512.4 | 6701.4 | 7553.8 | 7917.6 | 7503.9 |
| 32.5° | 6744.2 | 6687.2 | 6740.7 | 6694.3 | 6505.3 | 6312.7 | 6986.8 | 7182.9 | 8295.7 | 8441.9 | 7867.7 |
| 35° | 7275.6 | 7250.7 | 7478.9 | 7471.8 | 7165.1 | 6976.1 | 7489.6 | 7782.1 | 8812.8 | 9069.6 | 8295.7 |
| 37.5° | 8031.7 | 7985.4 | 8245.7 | 8370.6 | 8095.9 | 7814.2 | 8210.1 | 8548.9 | 9294.3 | 9572.5 | 8734.3 |
| 40° | 8809.2 | 8926.9 | 9276.5 | 9483.3 | 9190.9 | 8816.4 | 9091.0 | 9194.4 | 9615.3 | 9900.6 | 9033.9 |
| 42.5° | 9793.6 | 9964.8 | 10321.4 | 10499.8 | 10474.8 | 10068.2 | 9986.2 | 9982.6 | 9847.1 | 9807.9 | 9255.1 |
| 45° | 10738.7 | 10674.5 | 11223.8 | 11612.5 | 11926.4 | 11808.7 | 10849.3 | 10742.3 | 10214.4 | 9947.0 | 9312.1 |
| 47.5° | 11152.4 | 11131.0 | 11505.5 | 12197.4 | 13267.4 | 13413.6 | 12104.7 | 11691.0 | 10835.0 | 10531.9 | 9622.4 |
| 50° | 10617.5 | 10728.0 | 11098.9 | 11865.7 | 13506.3 | 14622.6 | 13645.4 | 13089.0 | 11559.0 | 11245.2 | 10357.1 |
| 52.5° | 8869.9 | 8944.8 | 9297.9 | 10271.5 | 12693.2 | 15335.9 | 15121.9 | 14801.0 | 12889.3 | 12368.6 | 11637.5 |
| 54° | 7293.5 | 7493.2 | 7685.8 | 8663.0 | 11245.2 | 14940.0 | 15931.5 | 15685.4 | 13756.0 | 13303.0 | 12443.5 |
| 55° | 6351.9 | 6469.6 | 6608.7 | 7582.4 | 10243.0 | 14269.5 | 15838.8 | 15860.2 | 14337.3 | 13595.5 | 12985.6 |
| 57.5° | 4640.0 | 4722.0 | 4579.4 | 5010.9 | 7033.1 | 11587.5 | 14487.1 | 15064.9 | 15121.9 | 14034.2 | 13317.3 |
| 60° | 3545.1 | 3580.8 | 3420.3 | 3488.0 | 4372.5 | 7953.3 | 11205.9 | 11901.4 | 13641.8 | 12265.2 | 11280.8 |
| 62.5° | 2749.8 | 2756.9 | 2753.3 | 2871.0 | 3013.7 | 4679.2 | 7008.2 | 7625.2 | 9404.8 | 8709.4 | 7660.8 |
| 65° | 2025.8 | 1993.7 | 2050.7 | 2407.4 | 2571.4 | 2942.4 | 3691.3 | 4140.7 | 5110.8 | 4315.5 | 3085.0 |
| 67.5° | 1312.5 | 1323.2 | 1380.2 | 1790.4 | 2204.1 | 2257.6 | 2271.9 | 2236.2 | 2239.8 | 1234.0 | 773.9 |
| 70° | 788.2 | 806.0 | 788.2 | 1012.9 | 1576.4 | 1619.2 | 1480.1 | 1444.4 | 1127.0 | 292.5 | 288.9 |
| 72.5° | 467.2 | 442.2 | 395.9 | 435.1 | 656.2 | 784.6 | 706.2 | 702.6 | 442.2 | 171.2 | 171.2 |
| 75° | 196.2 | 178.3 | 146.2 | 132.0 | 174.8 | 167.6 | 167.6 | 149.8 | 117.7 | 114.1 | 107.0 |
| 77.5° | 39.2 | 39.2 | 28.5 | 32.1 | 42.8 | 49.9 | 60.6 | 60.6 | 71.3 | 71.3 | 67.8 |
| 80° | 0.0 | 3.6 | 10.7 | 21.4 | 32.1 | 46.4 | 53.5 | 53.5 | 60.6 | 60.6 | 49.9 |
| 82.5° | 0.0 | 3.6 | 10.7 | 21.4 | 28.5 | 42.8 | 53.5 | 53.5 | 60.6 | 64.2 | 53.5 |
| 85° | 0.0 | 3.6 | 10.7 | 17.8 | 28.5 | 35.7 | 35.7 | 32.1 | 25.0 | 21.4 | 14.3 |
| 87.5° | 0.0 | 0.0 | 3.6 | 7.1 | 3.6 | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 |
| 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° | 6876.2 | 6876.2 | 6876.2 | 6876.2 | 6876.2 | 6876.2 | 6876.2 | 6876.2 | 6876.2 | 6876.2 | 6876.2 |
| 2.5° | 6908.3 | 6904.7 | 6819.1 | 6680.0 | 6647.9 | 6530.3 | 6516.0 | 6444.7 | 6483.9 | 6351.9 | 6337.7 |
| 5° | 6851.2 | 6808.4 | 6705.0 | 6615.8 | 6355.5 | 6170.0 | 6023.8 | 5845.5 | 5742.1 | 5759.9 | 5692.1 |
| 7.5° | 6933.3 | 6822.7 | 6640.8 | 6330.5 | 6013.1 | 5688.6 | 5513.8 | 5150.0 | 5018.1 | 4821.9 | 4793.4 |
| 10° | 6847.7 | 6765.6 | 6483.9 | 5970.3 | 5531.6 | 5064.4 | 4654.3 | 4251.3 | 3944.5 | 3812.6 | 3784.1 |
| 12.5° | 6840.5 | 6697.9 | 6227.1 | 5656.5 | 5021.6 | 4351.1 | 3755.5 | 3252.6 | 2949.5 | 2778.3 | 2739.1 |
| 15° | 6730.0 | 6558.8 | 5938.2 | 5171.4 | 4294.1 | 3459.5 | 2810.4 | 2325.4 | 2093.5 | 1993.7 | 2022.2 |
| 17.5° | 6740.7 | 6483.9 | 5649.3 | 4657.8 | 3577.2 | 2539.3 | 1918.8 | 1669.1 | 1608.5 | 1633.5 | 1633.5 |
| 20° | 6730.0 | 6316.3 | 5299.8 | 4065.8 | 2739.1 | 1761.8 | 1408.8 | 1319.6 | 1358.8 | 1437.3 | 1419.5 |
| 22.5° | 6672.9 | 6237.8 | 4978.8 | 3441.7 | 2015.1 | 1305.3 | 1130.6 | 1134.1 | 1194.8 | 1291.1 | 1312.5 |
| 25° | 6715.7 | 6063.0 | 4572.2 | 2810.4 | 1469.4 | 1041.4 | 980.8 | 1005.8 | 1069.9 | 1141.3 | 1155.5 |
| 27.5° | 6683.6 | 5938.2 | 4147.8 | 2182.7 | 1073.5 | 895.2 | 891.6 | 920.2 | 948.7 | 1002.2 | 1002.2 |
| 30° | 6719.3 | 5824.1 | 3730.6 | 1622.8 | 884.5 | 820.3 | 806.0 | 827.4 | 856.0 | 866.7 | 863.1 |
| 32.5° | 6851.2 | 5738.5 | 3249.1 | 1212.6 | 781.1 | 749.0 | 749.0 | 749.0 | 745.4 | 759.7 | 763.2 |
| 35° | 7140.1 | 5752.8 | 2824.7 | 938.0 | 713.3 | 688.3 | 677.6 | 663.4 | 656.2 | 663.4 | 666.9 |
| 37.5° | 7454.0 | 5745.6 | 2386.0 | 798.9 | 663.4 | 642.0 | 617.0 | 595.6 | 592.0 | 599.2 | 588.5 |
| 40° | 7593.1 | 5813.4 | 1979.4 | 716.9 | 617.0 | 592.0 | 552.8 | 535.0 | 538.5 | 545.7 | 538.5 |
| 42.5° | 7782.1 | 5834.8 | 1715.5 | 652.7 | 574.2 | 535.0 | 510.0 | 488.6 | 485.0 | 495.7 | 492.2 |
| 45° | 7778.5 | 5713.5 | 1437.3 | 617.0 | 535.0 | 492.2 | 460.1 | 442.2 | 442.2 | 449.4 | 452.9 |
| 47.5° | 8006.8 | 5695.7 | 1234.0 | 584.9 | 506.4 | 463.6 | 424.4 | 410.1 | 406.6 | 406.6 | 399.4 |
| 50° | 8538.2 | 5945.3 | 1077.1 | 549.2 | 470.8 | 431.5 | 399.4 | 381.6 | 367.3 | 360.2 | 356.6 |
| 52.5° | 9576.0 | 6722.8 | 955.8 | 506.4 | 431.5 | 399.4 | 370.9 | 356.6 | 338.8 | 321.0 | 317.4 |
| 54° | 10581.8 | 7525.3 | 948.7 | 470.8 | 399.4 | 378.0 | 353.1 | 345.9 | 324.6 | 299.6 | 292.5 |
| 55° | 11034.7 | 7992.5 | 973.7 | 442.2 | 378.0 | 363.8 | 342.4 | 335.3 | 313.9 | 285.3 | 281.8 |
| 57.5° | 11409.2 | 8174.4 | 959.4 | 367.3 | 342.4 | 338.8 | 321.0 | 310.3 | 285.3 | 246.1 | 239.0 |
| 60° | 9183.7 | 6180.7 | 688.3 | 324.6 | 313.9 | 306.7 | 292.5 | 285.3 | 253.2 | 210.4 | 206.9 |
| 62.5° | 5802.7 | 3555.8 | 438.7 | 285.3 | 274.6 | 263.9 | 246.1 | 239.0 | 210.4 | 167.6 | 156.9 |
| 65° | 2471.6 | 1473.0 | 296.0 | 253.2 | 235.4 | 217.6 | 203.3 | 192.6 | 167.6 | 124.8 | 121.3 |
| 67.5° | 642.0 | 524.3 | 246.1 | 221.1 | 196.2 | 171.2 | 160.5 | 142.7 | 114.1 | 85.6 | 82.0 |
| 70° | 288.9 | 263.9 | 206.9 | 185.5 | 156.9 | 132.0 | 117.7 | 99.9 | 74.9 | 57.1 | 53.5 |
| 72.5° | 171.2 | 167.6 | 156.9 | 139.1 | 117.7 | 99.9 | 85.6 | 67.8 | 49.9 | 32.1 | 32.1 |
| 75° | 107.0 | 103.4 | 107.0 | 96.3 | 82.0 | 74.9 | 64.2 | 46.4 | 28.5 | 14.3 | 14.3 |
| 77.5° | 64.2 | 64.2 | 64.2 | 60.6 | 57.1 | 57.1 | 46.4 | 28.5 | 14.3 | 3.6 | 3.6 |
| 80° | 49.9 | 49.9 | 53.5 | 49.9 | 49.9 | 49.9 | 39.2 | 21.4 | 7.1 | 0.0 | 0.0 |
| 82.5° | 49.9 | 53.5 | 60.6 | 57.1 | 49.9 | 42.8 | 35.7 | 21.4 | 7.1 | 0.0 | 0.0 |
| 85° | 14.3 | 10.7 | 17.8 | 25.0 | 35.7 | 32.1 | 25.0 | 17.8 | 7.1 | 0.0 | 0.0 |
| 87.5° | 7.1 | 7.1 | 7.1 | 7.1 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 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)