

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: P650624

Luminaire Tested: **GLAN-SA9B-835-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650624
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-SA9B-835-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 800mA 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: 23575.3 lumens
Efficiency: N/A
Efficacy: 64.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

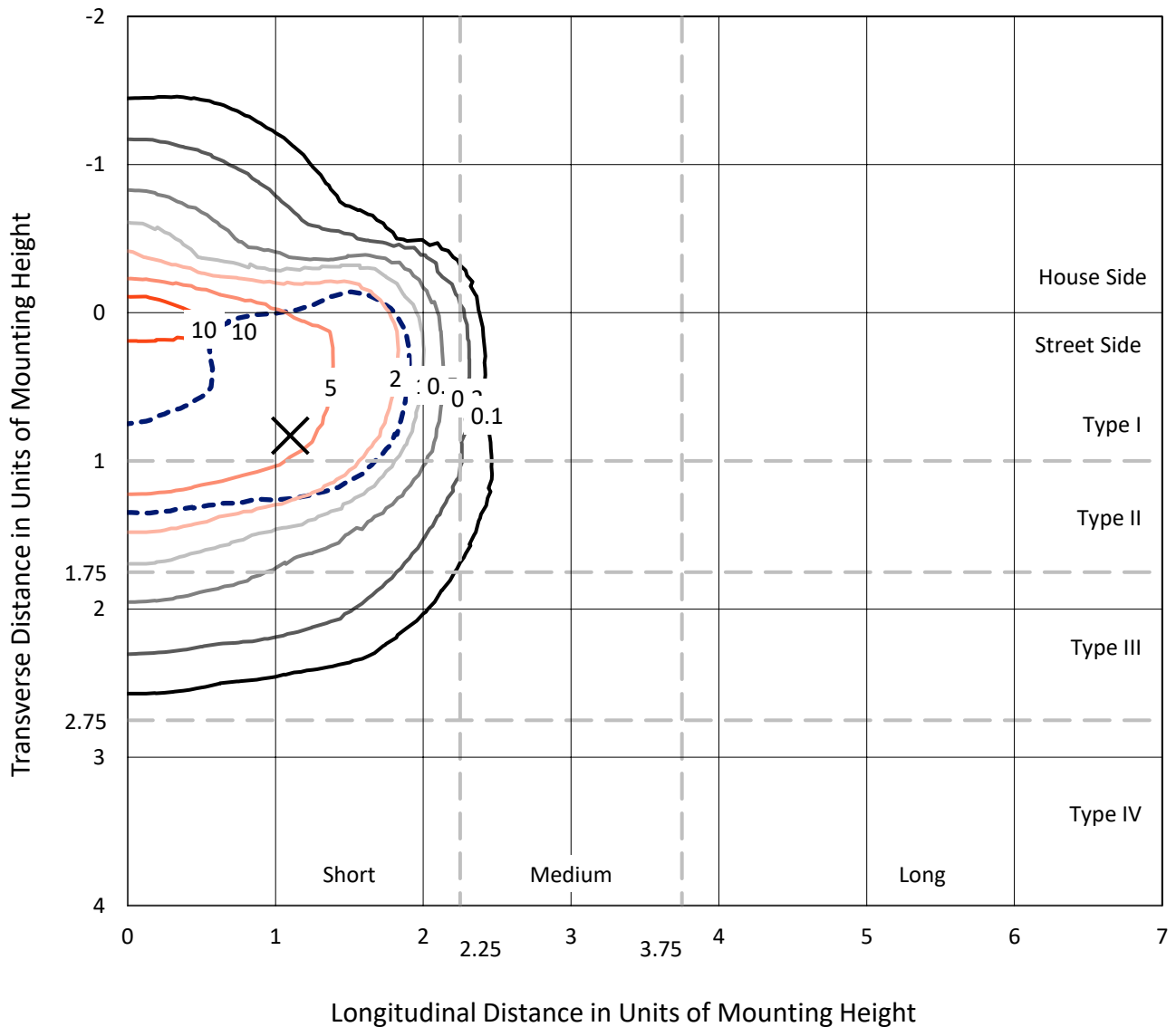
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

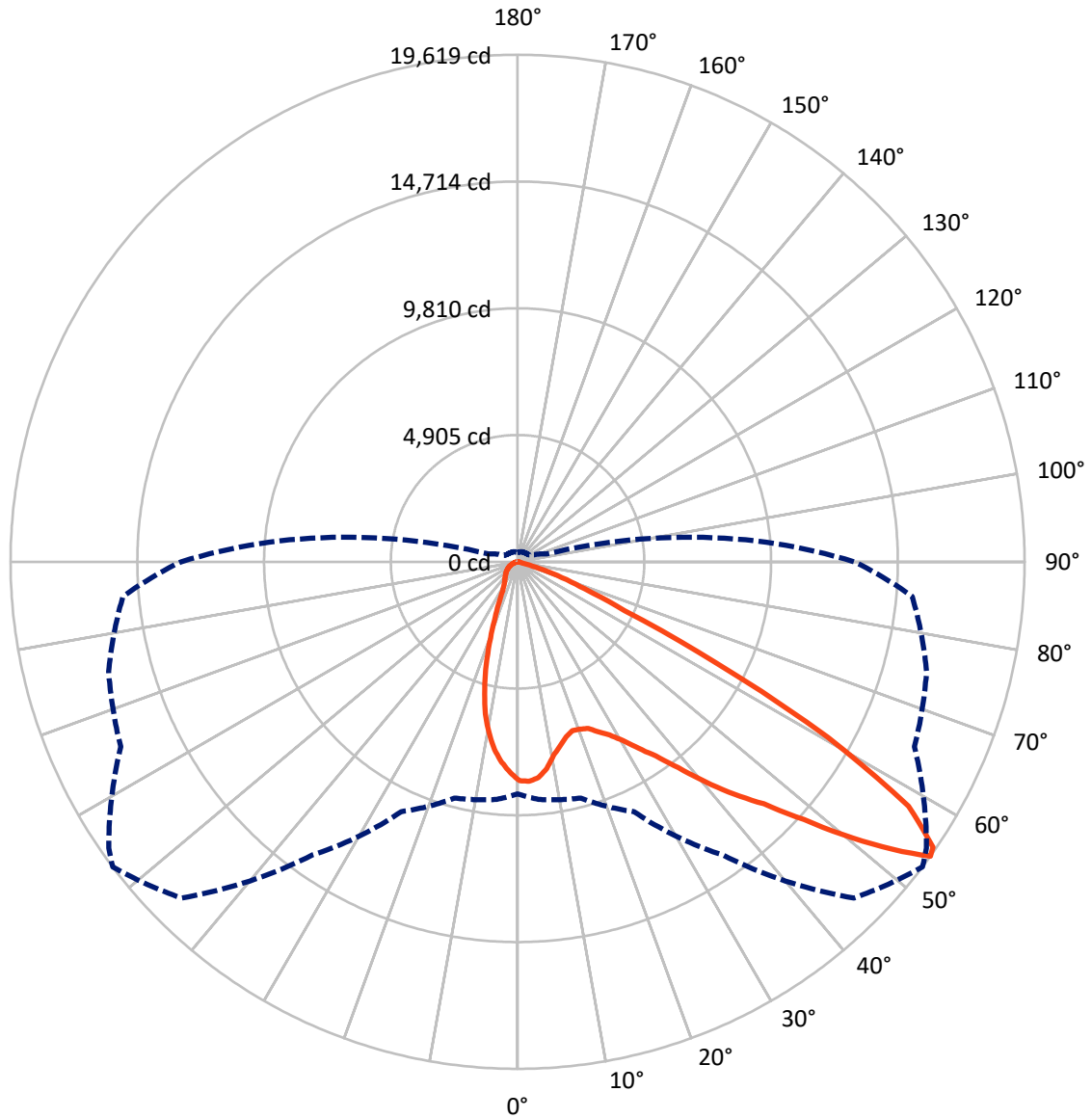
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 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 | 3900.6 | 0.0 | 3900.6 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 19674.7 | 0.0 | 19674.7 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 23575.3 | 0.0 | 23575.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 726.5 | 3.1 |
| 10°-20° | 1665.7 | 7.1 |
| 20°-30° | 2367.3 | 10.0 |
| 30°-40° | 3653.4 | 15.5 |
| 40°-50° | 5728.1 | 24.3 |
| 50°-60° | 6654.0 | 28.2 |
| 60°-70° | 2514.3 | 10.7 |
| 70°-80° | 239.1 | 1.0 |
| 80°-90° | 26.9 | 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° | 23575.3 | 100.0 |
| 0°-180° | 23575.3 | 100.0 |

Coefficient of Utilization

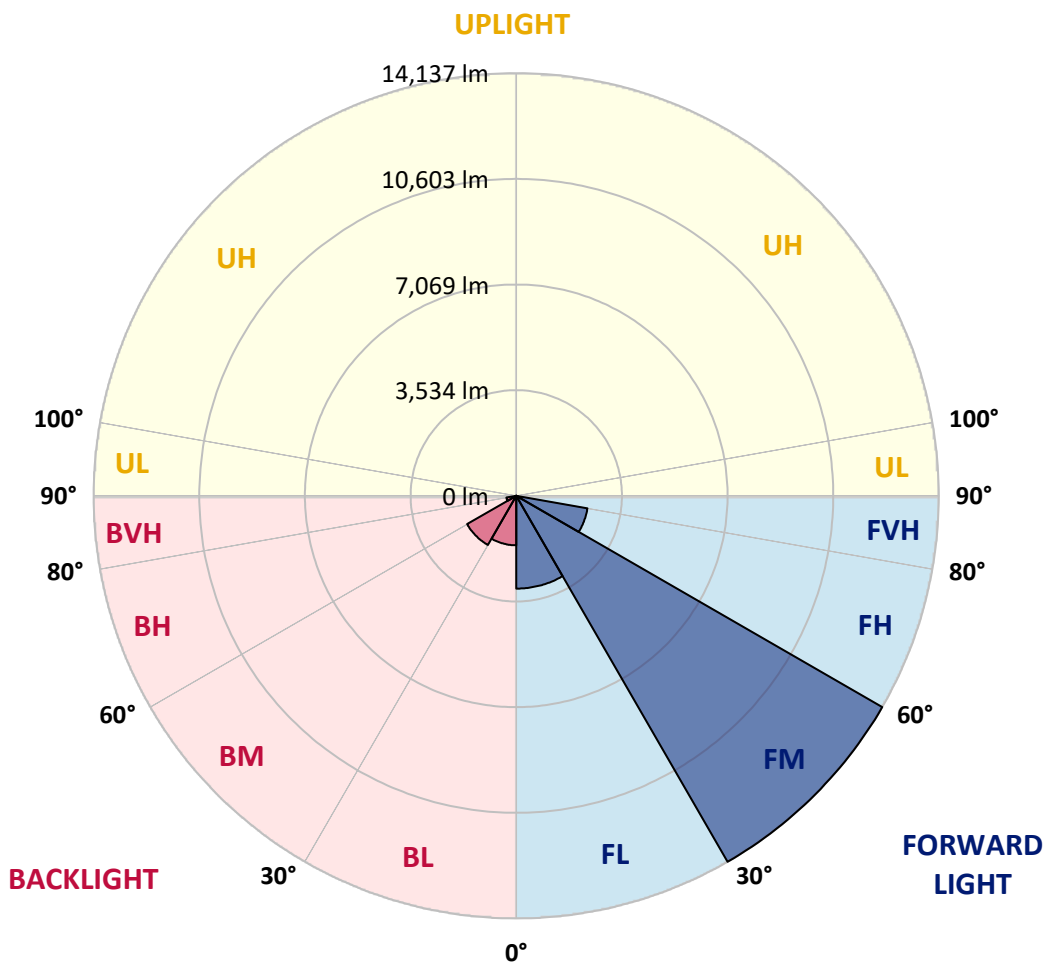


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3104.3 | 13.2 | | | |
| FM (30°-60°) | 14137.4 | 60.0 | | | |
| FH (60°-80°) | 2419.2 | 10.3 | | | G2/5000 |
| FVH (80°-90°) | 13.9 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1655.3 | 7.0 | B3/2500 | | |
| BM (30°-60°) | 1898.1 | 8.1 | B2/2500 | | |
| BH (60°-80°) | 334.2 | 1.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 13.0 | 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° | 8467.8 | 8467.8 | 8467.8 | 8467.8 | 8467.8 | 8467.8 | 8467.8 | 8467.8 | 8467.8 | 8467.8 | 8467.8 |
| 2.5° | 8424.0 | 8349.3 | 8424.0 | 8432.8 | 8485.4 | 8533.8 | 8503.0 | 8573.3 | 8533.8 | 8489.8 | 8476.7 |
| 5° | 7743.2 | 7844.2 | 7848.6 | 8006.7 | 7971.6 | 8261.4 | 8388.8 | 8353.7 | 8568.9 | 8555.7 | 8525.0 |
| 7.5° | 7132.7 | 7093.1 | 7145.9 | 7330.3 | 7563.1 | 7896.9 | 8081.3 | 8077.0 | 8384.4 | 8604.0 | 8582.1 |
| 10° | 6566.1 | 6561.7 | 6671.6 | 6816.5 | 7014.1 | 7365.4 | 7620.2 | 7747.6 | 8226.3 | 8560.1 | 8608.4 |
| 12.5° | 6184.0 | 6166.4 | 6285.0 | 6403.6 | 6715.5 | 6987.7 | 7312.8 | 7374.2 | 7923.3 | 8406.4 | 8485.4 |
| 15° | 5933.7 | 5973.2 | 5982.0 | 6210.4 | 6408.0 | 6768.2 | 7022.9 | 7150.3 | 7782.7 | 8283.4 | 8586.5 |
| 17.5° | 5889.7 | 5942.4 | 5946.8 | 6135.7 | 6346.5 | 6649.5 | 6873.6 | 7044.8 | 7664.2 | 8344.9 | 8590.8 |
| 20° | 5977.6 | 5946.8 | 5973.2 | 6091.7 | 6298.2 | 6588.1 | 6913.1 | 6970.2 | 7624.6 | 8375.7 | 8639.2 |
| 22.5° | 6227.9 | 6219.1 | 6153.3 | 6249.9 | 6394.8 | 6697.9 | 7005.3 | 7093.1 | 7738.8 | 8533.8 | 8678.7 |
| 25° | 6504.6 | 6552.9 | 6491.5 | 6478.3 | 6579.3 | 6878.0 | 7286.4 | 7400.6 | 8120.9 | 8819.2 | 8801.6 |
| 27.5° | 7022.9 | 6974.6 | 6974.6 | 6913.1 | 6886.7 | 7031.7 | 7589.5 | 7778.3 | 8546.9 | 9188.2 | 8942.2 |
| 30° | 7519.1 | 7571.9 | 7532.4 | 7554.3 | 7378.6 | 7365.4 | 8019.9 | 8252.7 | 9302.4 | 9750.3 | 9240.9 |
| 32.5° | 8305.4 | 8235.1 | 8301.0 | 8243.9 | 8011.1 | 7773.9 | 8604.0 | 8845.6 | 10215.9 | 10396.0 | 9688.8 |
| 35° | 8959.8 | 8929.0 | 9210.1 | 9201.3 | 8823.6 | 8590.8 | 9223.3 | 9583.5 | 10852.8 | 11168.9 | 10215.9 |
| 37.5° | 9890.9 | 9833.8 | 10154.4 | 10308.1 | 9969.9 | 9623.0 | 10110.5 | 10527.7 | 11445.7 | 11788.2 | 10756.1 |
| 40° | 10848.4 | 10993.3 | 11423.7 | 11678.4 | 11318.3 | 10857.2 | 11195.3 | 11322.7 | 11841.0 | 12192.3 | 11125.0 |
| 42.5° | 12060.5 | 12271.4 | 12710.6 | 12930.1 | 12899.5 | 12398.7 | 12297.7 | 12293.3 | 12126.5 | 12078.2 | 11397.3 |
| 45° | 13224.5 | 13145.4 | 13821.8 | 14300.5 | 14687.0 | 14542.0 | 13360.6 | 13228.9 | 12578.8 | 12249.4 | 11467.7 |
| 47.5° | 13733.9 | 13707.6 | 14168.8 | 15020.8 | 16338.4 | 16518.5 | 14906.6 | 14397.1 | 13343.0 | 12969.7 | 11849.8 |
| 50° | 13075.2 | 13211.2 | 13668.0 | 14612.3 | 16632.7 | 18007.4 | 16804.0 | 16118.8 | 14234.6 | 13848.1 | 12754.5 |
| 52.5° | 10923.0 | 11015.2 | 11450.0 | 12649.1 | 15631.3 | 18885.8 | 18622.2 | 18227.0 | 15872.9 | 15231.6 | 14331.2 |
| 54° | 8981.7 | 9227.7 | 9464.8 | 10668.3 | 13848.1 | 18398.3 | 19619.2 | 19316.2 | 16940.1 | 16382.3 | 15323.9 |
| 55° | 7822.2 | 7967.2 | 8138.5 | 9337.5 | 12614.0 | 17572.6 | 19505.1 | 19531.5 | 17656.0 | 16742.5 | 15991.4 |
| 57.5° | 5714.0 | 5815.1 | 5639.4 | 6170.8 | 8661.2 | 14269.8 | 17840.5 | 18552.0 | 18622.2 | 17282.7 | 16399.9 |
| 60° | 4365.7 | 4409.6 | 4212.0 | 4295.5 | 5384.6 | 9794.2 | 13799.8 | 14656.3 | 16799.6 | 15104.2 | 13892.1 |
| 62.5° | 3386.2 | 3395.1 | 3390.6 | 3535.6 | 3711.3 | 5762.3 | 8630.4 | 9390.2 | 11581.8 | 10725.4 | 9434.1 |
| 65° | 2494.7 | 2455.2 | 2525.4 | 2964.6 | 3166.7 | 3623.4 | 4545.8 | 5099.1 | 6293.8 | 5314.4 | 3799.1 |
| 67.5° | 1616.3 | 1629.4 | 1699.7 | 2204.8 | 2714.3 | 2780.2 | 2797.7 | 2753.8 | 2758.2 | 1519.6 | 953.1 |
| 70° | 970.6 | 992.6 | 970.6 | 1247.3 | 1941.3 | 1994.0 | 1822.7 | 1778.7 | 1387.9 | 360.2 | 355.7 |
| 72.5° | 575.3 | 544.6 | 487.5 | 535.8 | 808.1 | 966.2 | 869.6 | 865.2 | 544.6 | 210.8 | 210.8 |
| 75° | 241.6 | 219.6 | 180.1 | 162.5 | 215.2 | 206.4 | 206.4 | 184.5 | 144.9 | 140.5 | 131.8 |
| 77.5° | 48.3 | 48.3 | 35.2 | 39.5 | 52.7 | 61.5 | 74.7 | 74.7 | 87.9 | 87.9 | 83.5 |
| 80° | 0.0 | 4.4 | 13.2 | 26.4 | 39.5 | 57.1 | 65.9 | 65.9 | 74.7 | 74.7 | 61.5 |
| 82.5° | 0.0 | 4.4 | 13.2 | 26.4 | 35.2 | 52.7 | 65.9 | 65.9 | 74.7 | 79.1 | 65.9 |
| 85° | 0.0 | 4.4 | 13.2 | 21.9 | 35.2 | 43.9 | 43.9 | 39.5 | 30.8 | 26.4 | 17.5 |
| 87.5° | 0.0 | 0.0 | 4.4 | 8.8 | 4.4 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 |
| 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° | 8467.8 | 8467.8 | 8467.8 | 8467.8 | 8467.8 | 8467.8 | 8467.8 | 8467.8 | 8467.8 | 8467.8 | 8467.8 |
| 2.5° | 8507.4 | 8503.0 | 8397.6 | 8226.3 | 8186.8 | 8041.8 | 8024.3 | 7936.4 | 7984.7 | 7822.2 | 7804.6 |
| 5° | 8437.1 | 8384.4 | 8257.0 | 8147.3 | 7826.6 | 7598.2 | 7418.1 | 7198.6 | 7071.2 | 7093.1 | 7009.7 |
| 7.5° | 8538.1 | 8402.0 | 8178.0 | 7795.9 | 7405.0 | 7005.3 | 6790.1 | 6342.1 | 6179.6 | 5938.0 | 5902.9 |
| 10° | 8432.8 | 8331.7 | 7984.7 | 7352.3 | 6812.1 | 6236.7 | 5731.6 | 5235.3 | 4857.6 | 4695.1 | 4659.9 |
| 12.5° | 8424.0 | 8248.3 | 7668.5 | 6965.8 | 6184.0 | 5358.3 | 4624.8 | 4005.5 | 3632.3 | 3421.4 | 3373.1 |
| 15° | 8287.8 | 8077.0 | 7312.8 | 6368.5 | 5288.0 | 4260.3 | 3460.9 | 2863.6 | 2578.1 | 2455.2 | 2490.3 |
| 17.5° | 8301.0 | 7984.7 | 6957.0 | 5736.0 | 4405.2 | 3127.1 | 2362.9 | 2055.5 | 1980.8 | 2011.5 | 2011.5 |
| 20° | 8287.8 | 7778.3 | 6526.6 | 5007.0 | 3373.1 | 2169.7 | 1734.9 | 1625.0 | 1673.3 | 1770.0 | 1748.0 |
| 22.5° | 8217.5 | 7681.7 | 6131.3 | 4238.3 | 2481.5 | 1607.5 | 1392.3 | 1396.6 | 1471.3 | 1590.0 | 1616.3 |
| 25° | 8270.2 | 7466.5 | 5630.6 | 3460.9 | 1809.5 | 1282.5 | 1207.8 | 1238.5 | 1317.6 | 1405.5 | 1423.0 |
| 27.5° | 8230.7 | 7312.8 | 5108.0 | 2688.0 | 1322.0 | 1102.4 | 1098.0 | 1133.2 | 1168.3 | 1234.2 | 1234.2 |
| 30° | 8274.6 | 7172.2 | 4594.1 | 1998.4 | 1089.2 | 1010.1 | 992.6 | 1018.9 | 1054.1 | 1067.2 | 1062.8 |
| 32.5° | 8437.1 | 7066.8 | 4001.1 | 1493.3 | 961.8 | 922.3 | 922.3 | 922.3 | 917.9 | 935.5 | 939.9 |
| 35° | 8792.9 | 7084.3 | 3478.5 | 1155.1 | 878.4 | 847.7 | 834.5 | 816.9 | 808.1 | 816.9 | 821.3 |
| 37.5° | 9179.3 | 7075.6 | 2938.3 | 983.8 | 816.9 | 790.6 | 759.8 | 733.4 | 729.1 | 737.9 | 724.7 |
| 40° | 9350.7 | 7159.0 | 2437.6 | 882.8 | 759.8 | 729.1 | 680.7 | 658.8 | 663.2 | 672.0 | 663.2 |
| 42.5° | 9583.5 | 7185.4 | 2112.6 | 803.7 | 707.1 | 658.8 | 628.0 | 601.7 | 597.4 | 610.5 | 606.1 |
| 45° | 9579.1 | 7036.0 | 1770.0 | 759.8 | 658.8 | 606.1 | 566.6 | 544.6 | 544.6 | 553.4 | 557.8 |
| 47.5° | 9860.2 | 7014.1 | 1519.6 | 720.3 | 623.7 | 571.0 | 522.7 | 505.1 | 500.7 | 500.7 | 491.9 |
| 50° | 10514.6 | 7321.5 | 1326.4 | 676.4 | 579.7 | 531.4 | 491.9 | 470.0 | 452.4 | 443.6 | 439.2 |
| 52.5° | 11792.7 | 8279.0 | 1177.1 | 623.7 | 531.4 | 491.9 | 456.8 | 439.2 | 417.3 | 395.3 | 390.9 |
| 54° | 13031.2 | 9267.2 | 1168.3 | 579.7 | 491.9 | 465.6 | 434.8 | 426.0 | 399.6 | 368.9 | 360.2 |
| 55° | 13589.0 | 9842.5 | 1199.0 | 544.6 | 465.6 | 448.0 | 421.6 | 412.9 | 386.5 | 351.3 | 346.9 |
| 57.5° | 14050.2 | 10066.6 | 1181.5 | 452.4 | 421.6 | 417.3 | 395.3 | 382.1 | 351.3 | 303.0 | 294.3 |
| 60° | 11309.5 | 7611.4 | 847.7 | 399.6 | 386.5 | 377.7 | 360.2 | 351.3 | 311.9 | 259.1 | 254.7 |
| 62.5° | 7145.9 | 4378.8 | 540.2 | 351.3 | 338.2 | 325.0 | 303.0 | 294.3 | 259.1 | 206.4 | 193.2 |
| 65° | 3043.7 | 1813.9 | 364.6 | 311.9 | 289.9 | 267.9 | 250.3 | 237.2 | 206.4 | 153.7 | 149.3 |
| 67.5° | 790.6 | 645.7 | 303.0 | 272.3 | 241.6 | 210.8 | 197.6 | 175.7 | 140.5 | 105.4 | 101.0 |
| 70° | 355.7 | 325.0 | 254.7 | 228.4 | 193.2 | 162.5 | 144.9 | 123.0 | 92.2 | 70.2 | 65.9 |
| 72.5° | 210.8 | 206.4 | 193.2 | 171.3 | 144.9 | 123.0 | 105.4 | 83.5 | 61.5 | 39.5 | 39.5 |
| 75° | 131.8 | 127.4 | 131.8 | 118.5 | 101.0 | 92.2 | 79.1 | 57.1 | 35.2 | 17.5 | 17.5 |
| 77.5° | 79.1 | 79.1 | 79.1 | 74.7 | 70.2 | 70.2 | 57.1 | 35.2 | 17.5 | 4.4 | 4.4 |
| 80° | 61.5 | 61.5 | 65.9 | 61.5 | 61.5 | 61.5 | 48.3 | 26.4 | 8.8 | 0.0 | 0.0 |
| 82.5° | 61.5 | 65.9 | 74.7 | 70.2 | 61.5 | 52.7 | 43.9 | 26.4 | 8.8 | 0.0 | 0.0 |
| 85° | 17.5 | 13.2 | 21.9 | 30.8 | 43.9 | 39.5 | 30.8 | 21.9 | 8.8 | 0.0 | 0.0 |
| 87.5° | 8.8 | 8.8 | 8.8 | 8.8 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 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)