

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: P267237

Luminaire Tested: **GAN-AF-09-LED-U-SL3-7027-1200-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P267237
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-09-LED-U-SL3-7027-1200-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50721 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 575
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: 28.75 FT

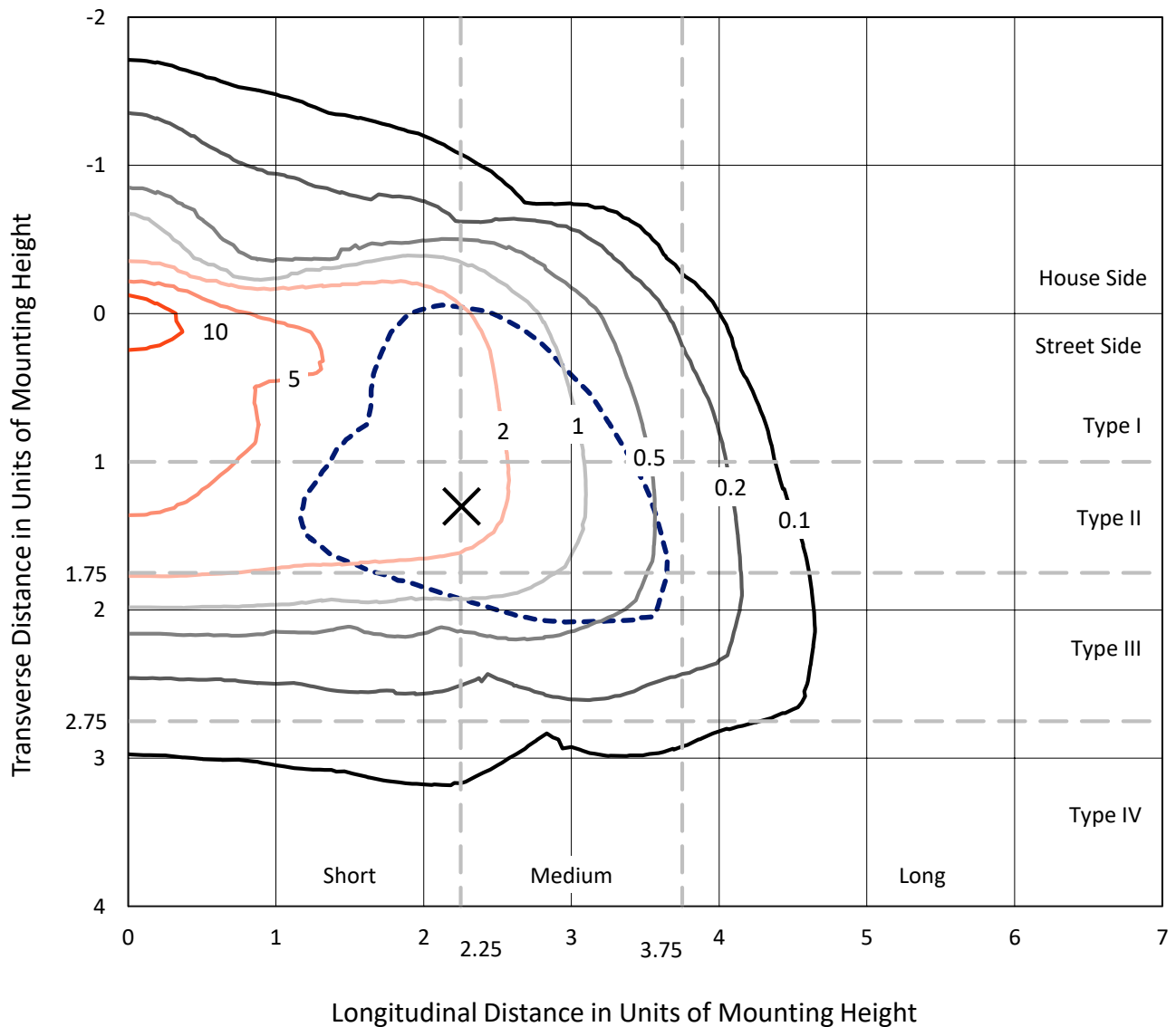


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

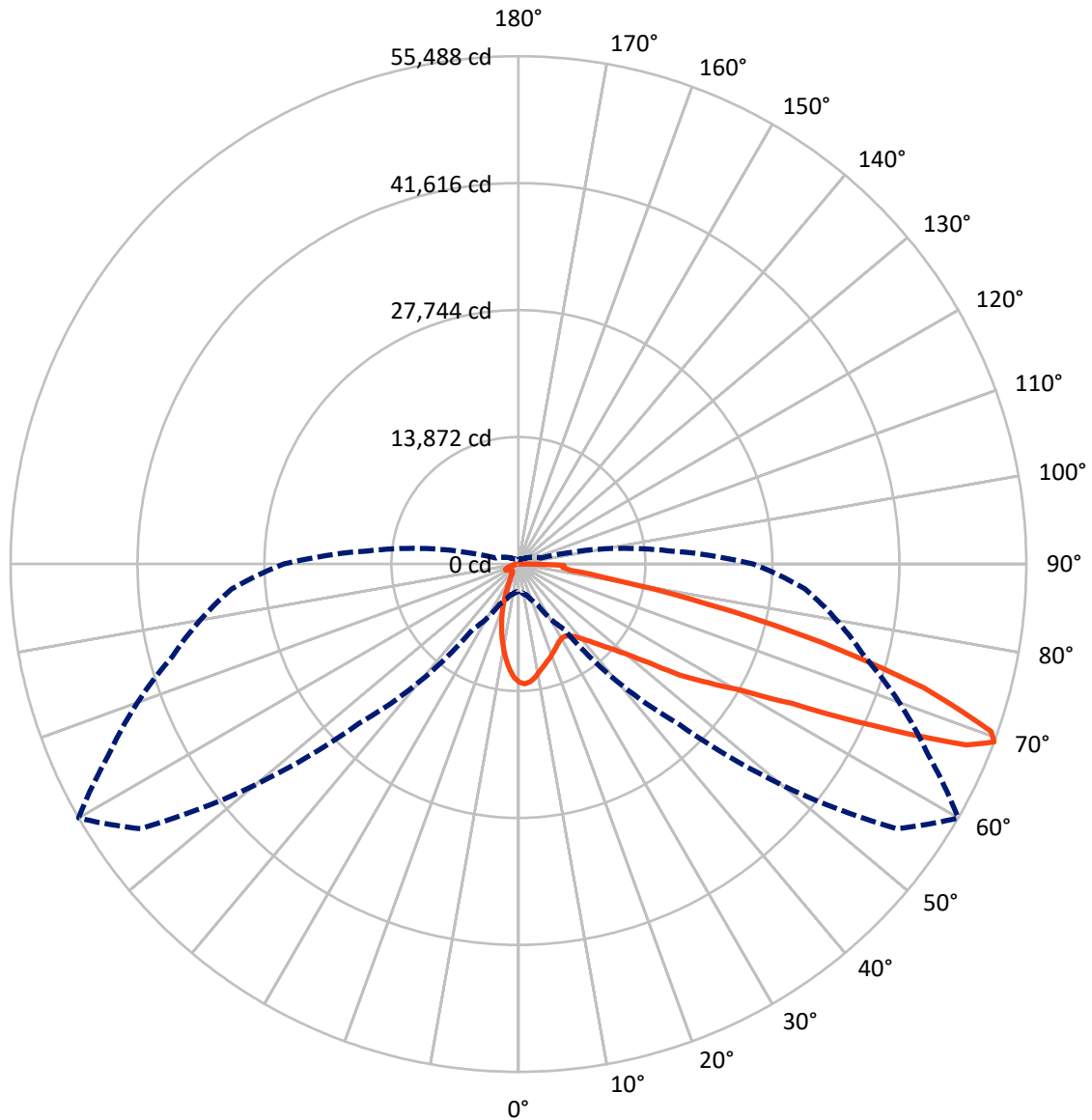


Based on 30 foot mounting height. Maximum calculated value = 14.4 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7216.0 | 0.0 | 7216.0 |
| | % Fixture | 14.2 | 0.0 | 14.2 |
| Street Side | Lumens | 43505.0 | 0.0 | 43505.0 |
| | % Fixture | 85.8 | 0.0 | 85.8 |
| Total | Lumens | 50721.0 | 0.0 | 50721.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1092.8 | 2.2 |
| 10°-20° | 2328.3 | 4.6 |
| 20°-30° | 2966.7 | 5.8 |
| 30°-40° | 4078.4 | 8.0 |
| 40°-50° | 6617.6 | 13.0 |
| 50°-60° | 10613.0 | 20.9 |
| 60°-70° | 14125.1 | 27.8 |
| 70°-80° | 7626.5 | 15.0 |
| 80°-90° | 1272.5 | 2.5 |
| 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° | 50721.0 | 100.0 |
| 0°-180° | 50721.0 | 100.0 |

Coefficient of Utilization



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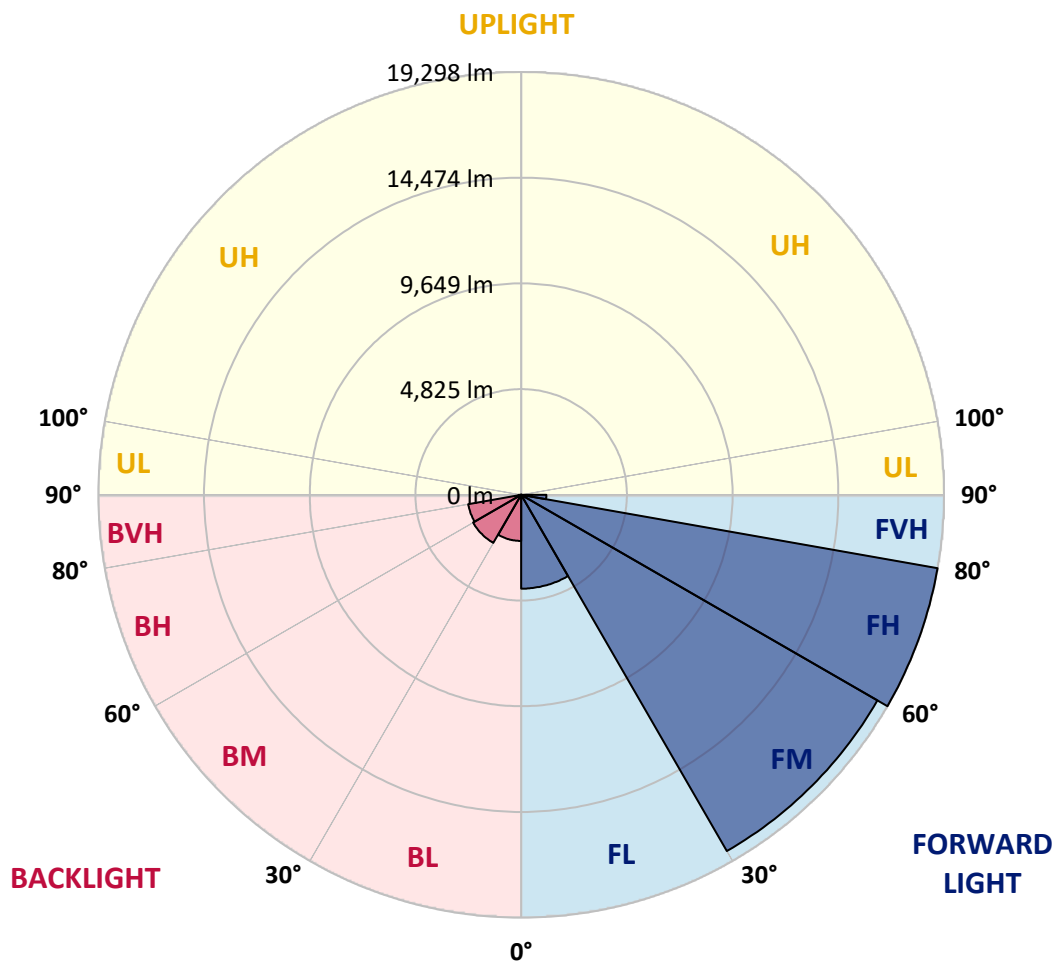
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4282.7 | 8.4 | | | |
| FM (30°-60°) | 18774.0 | 37.0 | | | |
| FH (60°-80°) | 19298.4 | 38.0 | | | G5 |
| FVH (80°-90°) | 1150.0 | 2.3 | | | G5 |
| BL (0°-30°) | 2105.1 | 4.2 | B3/2500 | | |
| BM (30°-60°) | 2535.1 | 5.0 | B3/5000 | | |
| BH (60°-80°) | 2453.2 | 4.8 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 122.5 | 0.2 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 12924.5 | 12924.5 | 12924.5 | 12924.5 | 12924.5 | 12924.5 | 12924.5 | 12924.5 | 12924.5 | 12924.5 | 12924.5 |
| 2.5° | 13189.0 | 13218.5 | 13206.3 | 13198.8 | 13221.0 | 13186.7 | 13115.7 | 13093.5 | 13059.2 | 12978.4 | 12841.2 |
| 5° | 12694.2 | 12782.3 | 12777.5 | 12843.6 | 12953.9 | 12983.4 | 12951.5 | 12956.3 | 12892.7 | 12792.1 | 12564.4 |
| 7.5° | 11839.0 | 11875.9 | 11895.4 | 12040.1 | 12240.9 | 12402.5 | 12539.8 | 12583.8 | 12554.5 | 12468.7 | 12174.8 |
| 10° | 10957.0 | 10986.5 | 11033.0 | 11202.0 | 11456.9 | 11679.9 | 11939.6 | 12089.0 | 12152.7 | 12138.0 | 11809.7 |
| 12.5° | 10200.0 | 10229.3 | 10290.5 | 10481.8 | 10785.5 | 11059.9 | 11437.2 | 11623.4 | 11775.3 | 11866.0 | 11513.1 |
| 15° | 9521.2 | 9584.9 | 9643.8 | 9864.3 | 10204.8 | 10565.0 | 10991.3 | 11226.6 | 11461.7 | 11665.1 | 11251.0 |
| 17.5° | 8992.0 | 9055.8 | 9089.9 | 9290.9 | 9653.5 | 10094.6 | 10594.4 | 10871.3 | 11165.3 | 11498.6 | 10991.3 |
| 20° | 8685.7 | 8715.1 | 8700.4 | 8813.1 | 9139.0 | 9607.1 | 10200.0 | 10520.9 | 10876.1 | 11341.7 | 10731.6 |
| 22.5° | 8600.1 | 8602.3 | 8548.5 | 8536.2 | 8746.9 | 9141.4 | 9778.5 | 10168.0 | 10604.2 | 11238.8 | 10508.6 |
| 25° | 8808.2 | 8801.0 | 8653.9 | 8533.8 | 8555.8 | 8786.2 | 9371.7 | 9825.0 | 10376.3 | 11216.7 | 10337.2 |
| 27.5° | 9271.3 | 9293.3 | 9075.2 | 8849.9 | 8627.0 | 8619.5 | 9063.1 | 9540.9 | 10190.2 | 11317.1 | 10263.7 |
| 30° | 9920.6 | 9957.4 | 9724.6 | 9438.0 | 9019.0 | 8673.5 | 8942.9 | 9371.7 | 10075.0 | 11525.4 | 10251.4 |
| 32.5° | 10631.1 | 10670.3 | 10493.9 | 10192.6 | 9643.8 | 9006.6 | 9026.3 | 9386.5 | 10070.1 | 11817.1 | 10334.7 |
| 35° | 11388.3 | 11432.4 | 11341.7 | 11086.9 | 10476.8 | 9621.7 | 9344.8 | 9624.1 | 10229.3 | 12262.9 | 10557.6 |
| 37.5° | 12233.6 | 12302.2 | 12326.6 | 12084.1 | 11432.4 | 10432.6 | 9866.8 | 10075.0 | 10589.5 | 12882.9 | 10966.8 |
| 40° | 13451.3 | 13546.8 | 13539.4 | 13191.5 | 12527.6 | 11527.9 | 10672.9 | 10726.8 | 11150.7 | 13711.0 | 11621.1 |
| 42.5° | 15783.8 | 15803.4 | 15193.4 | 14436.2 | 13733.0 | 12679.4 | 11623.4 | 11579.3 | 11924.8 | 14759.6 | 12583.8 |
| 45° | 18751.0 | 18670.1 | 17312.7 | 15850.0 | 14992.4 | 14002.5 | 12860.8 | 12645.3 | 12907.3 | 16038.6 | 13789.4 |
| 47.5° | 21213.4 | 21027.0 | 19312.0 | 17293.1 | 16325.3 | 15440.7 | 14313.8 | 13936.3 | 14080.9 | 17489.1 | 15347.6 |
| 50° | 22068.4 | 21928.7 | 20507.6 | 18493.6 | 17587.0 | 17195.0 | 16102.3 | 15568.2 | 15607.4 | 19218.9 | 17173.0 |
| 52.5° | 21884.7 | 21865.0 | 20916.9 | 19285.1 | 18768.1 | 19037.6 | 18635.8 | 17912.9 | 17530.8 | 21139.9 | 19142.9 |
| 55° | 21450.9 | 21492.6 | 21149.5 | 20206.3 | 20118.1 | 20816.3 | 21946.0 | 21411.8 | 20223.5 | 23077.8 | 21179.0 |
| 57.5° | 19944.1 | 20052.0 | 20806.6 | 21365.2 | 22291.4 | 23330.2 | 24611.7 | 24459.7 | 23122.0 | 25172.8 | 23599.7 |
| 60° | 16068.1 | 16317.9 | 18341.8 | 21139.9 | 24528.3 | 27777.2 | 28350.6 | 27997.7 | 26111.2 | 27772.3 | 26797.2 |
| 62.5° | 11258.4 | 11518.1 | 13924.2 | 18302.5 | 24160.9 | 32800.1 | 35034.5 | 33513.0 | 30403.8 | 31601.8 | 30935.4 |
| 65° | 6027.4 | 6152.3 | 7990.0 | 12699.1 | 20397.5 | 33836.4 | 44803.2 | 42487.9 | 37200.4 | 36323.2 | 34476.0 |
| 67.5° | 3324.8 | 3393.4 | 4096.6 | 6412.0 | 13064.1 | 29796.2 | 51026.7 | 52776.1 | 45695.2 | 39466.9 | 33831.4 |
| 69° | 3006.3 | 3070.0 | 3530.7 | 4856.1 | 8742.0 | 24636.1 | 50419.0 | 55488.2 | 49419.3 | 39155.7 | 31450.0 |
| 70° | 2940.2 | 2999.0 | 3413.0 | 4476.4 | 7075.9 | 20306.7 | 48382.9 | 54795.0 | 50306.3 | 38040.9 | 29372.3 |
| 72.5° | 2646.1 | 2709.8 | 3111.6 | 4020.6 | 6046.9 | 10124.0 | 38325.1 | 46329.6 | 45673.1 | 32983.7 | 22279.1 |
| 75° | 2467.3 | 2526.2 | 3207.2 | 3937.5 | 5789.7 | 6407.2 | 25265.8 | 34145.1 | 33574.2 | 23073.0 | 12013.0 |
| 77.5° | 1056.0 | 1051.0 | 1487.2 | 3332.3 | 5875.5 | 6203.8 | 13576.3 | 21331.0 | 19461.4 | 9861.9 | 3449.9 |
| 80° | 705.7 | 693.4 | 705.7 | 980.1 | 5387.9 | 6238.1 | 7112.8 | 10827.1 | 8178.6 | 2513.8 | 1700.4 |
| 82.5° | 607.7 | 597.8 | 619.9 | 597.8 | 1893.9 | 7120.1 | 6046.9 | 5757.9 | 3888.4 | 1428.5 | 842.9 |
| 85° | 409.2 | 392.0 | 534.1 | 536.6 | 894.4 | 6326.3 | 6811.4 | 4863.6 | 3146.0 | 847.7 | 416.5 |
| 87.5° | 196.0 | 191.1 | 311.2 | 379.8 | 524.3 | 2570.2 | 7642.1 | 4983.5 | 3173.0 | 433.7 | 198.4 |
| 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° | 12924.5 | 12924.5 | 12924.5 | 12924.5 | 12924.5 | 12924.5 | 12924.5 | 12924.5 | 12924.5 | 12924.5 | 12924.5 |
| 2.5° | 12799.5 | 12699.1 | 12601.1 | 12483.4 | 12360.9 | 12223.7 | 12155.1 | 12086.5 | 12069.4 | 12049.8 | 11981.1 |
| 5° | 12446.6 | 12304.7 | 12059.6 | 11790.1 | 11505.9 | 11229.1 | 11018.3 | 10886.0 | 10785.5 | 10734.0 | 10643.4 |
| 7.5° | 11990.9 | 11782.7 | 11353.9 | 10888.4 | 10410.6 | 9974.5 | 9597.2 | 9359.5 | 9134.1 | 9028.8 | 8908.8 |
| 10° | 11557.4 | 11246.2 | 10579.7 | 9893.7 | 9207.5 | 8548.5 | 7928.6 | 7490.1 | 7100.6 | 6882.5 | 6728.0 |
| 12.5° | 11184.8 | 10758.6 | 9834.9 | 8906.2 | 7965.5 | 7027.0 | 6098.5 | 5368.2 | 4758.1 | 4437.2 | 4273.1 |
| 15° | 10822.3 | 10307.7 | 9126.8 | 7948.3 | 6740.3 | 5463.9 | 4243.7 | 3415.4 | 2910.8 | 2709.8 | 2641.2 |
| 17.5° | 10493.9 | 9834.9 | 8416.2 | 6982.9 | 5476.1 | 3932.5 | 2851.9 | 2396.1 | 2202.6 | 2136.4 | 2114.5 |
| 20° | 10138.7 | 9357.0 | 7678.7 | 5973.4 | 4157.9 | 2749.1 | 2227.2 | 2026.2 | 1947.9 | 1928.2 | 1918.5 |
| 22.5° | 9795.7 | 8886.7 | 6973.2 | 4892.9 | 2986.8 | 2121.8 | 1913.6 | 1830.2 | 1818.0 | 1835.1 | 1835.1 |
| 25° | 9504.1 | 8465.3 | 6211.2 | 3763.4 | 2192.9 | 1786.2 | 1712.7 | 1693.0 | 1739.6 | 1803.3 | 1815.6 |
| 27.5° | 9286.0 | 8119.8 | 5400.2 | 2778.5 | 1746.9 | 1553.3 | 1551.0 | 1582.9 | 1697.9 | 1820.4 | 1844.9 |
| 30° | 9136.7 | 7791.4 | 4532.8 | 2004.2 | 1465.1 | 1367.2 | 1406.3 | 1474.9 | 1644.1 | 1818.0 | 1864.5 |
| 32.5° | 9060.7 | 7548.8 | 3628.7 | 1551.0 | 1254.5 | 1200.6 | 1266.7 | 1350.1 | 1516.7 | 1678.4 | 1739.6 |
| 35° | 9119.5 | 7370.1 | 2776.0 | 1293.6 | 1107.5 | 1065.7 | 1134.4 | 1215.2 | 1313.3 | 1382.0 | 1428.5 |
| 37.5° | 9339.9 | 7299.0 | 2094.8 | 1159.0 | 1007.0 | 967.8 | 1021.7 | 1068.3 | 1107.5 | 1127.1 | 1149.1 |
| 40° | 9815.2 | 7374.9 | 1678.4 | 1090.4 | 950.6 | 901.7 | 923.6 | 940.9 | 965.4 | 984.9 | 994.8 |
| 42.5° | 10516.0 | 7602.7 | 1504.4 | 1063.4 | 921.2 | 850.2 | 845.2 | 852.6 | 884.6 | 921.2 | 928.6 |
| 45° | 11496.1 | 8004.5 | 1492.2 | 1080.5 | 906.6 | 808.6 | 786.5 | 796.3 | 845.2 | 901.7 | 911.4 |
| 47.5° | 12748.0 | 8617.1 | 1590.1 | 1132.0 | 918.7 | 786.5 | 749.7 | 762.0 | 823.2 | 899.3 | 911.4 |
| 50° | 14264.7 | 9472.3 | 1754.3 | 1208.0 | 972.8 | 791.3 | 737.5 | 744.9 | 808.6 | 891.8 | 904.1 |
| 52.5° | 16055.8 | 10685.1 | 1933.2 | 1281.4 | 1029.1 | 823.2 | 747.3 | 730.1 | 788.9 | 862.5 | 877.1 |
| 55° | 18047.7 | 12240.9 | 2116.9 | 1347.5 | 1058.5 | 862.5 | 767.0 | 710.5 | 752.2 | 813.4 | 825.7 |
| 57.5° | 20492.9 | 14416.5 | 2435.5 | 1411.2 | 1078.1 | 889.4 | 786.5 | 690.9 | 705.7 | 749.7 | 759.5 |
| 60° | 23803.1 | 17494.0 | 2996.6 | 1516.7 | 1122.2 | 899.3 | 784.0 | 673.8 | 659.0 | 683.6 | 688.6 |
| 62.5° | 27769.8 | 20835.9 | 3464.6 | 1649.0 | 1195.6 | 906.6 | 769.4 | 661.5 | 619.9 | 619.9 | 624.9 |
| 65° | 30124.4 | 21730.3 | 3204.8 | 1759.2 | 1256.9 | 899.3 | 752.2 | 649.3 | 590.5 | 563.5 | 566.0 |
| 67.5° | 28127.5 | 19111.1 | 2746.6 | 1781.2 | 1254.5 | 864.9 | 725.2 | 627.2 | 561.1 | 519.4 | 517.0 |
| 69° | 25625.9 | 16489.5 | 2540.8 | 1722.4 | 1195.6 | 820.8 | 690.9 | 602.8 | 539.1 | 495.0 | 492.5 |
| 70° | 23609.6 | 14889.4 | 2406.0 | 1658.7 | 1132.0 | 788.9 | 663.9 | 580.7 | 521.8 | 480.2 | 475.4 |
| 72.5° | 17165.7 | 9756.4 | 2055.7 | 1426.0 | 933.5 | 661.5 | 573.4 | 509.6 | 465.5 | 441.0 | 436.1 |
| 75° | 8577.9 | 4652.9 | 1668.5 | 1156.5 | 715.4 | 529.2 | 470.4 | 426.3 | 404.2 | 399.3 | 397.0 |
| 77.5° | 2817.7 | 2131.6 | 1193.2 | 862.5 | 531.6 | 414.1 | 379.8 | 348.0 | 343.1 | 357.7 | 352.9 |
| 80° | 1548.5 | 1239.8 | 757.1 | 571.0 | 362.6 | 303.7 | 299.0 | 281.8 | 289.2 | 313.6 | 308.7 |
| 82.5° | 788.9 | 644.4 | 467.9 | 343.1 | 245.0 | 218.1 | 237.6 | 227.9 | 237.6 | 259.7 | 257.3 |
| 85° | 389.5 | 352.9 | 296.5 | 208.2 | 161.8 | 139.6 | 169.1 | 176.3 | 181.3 | 198.4 | 198.4 |
| 87.5° | 225.5 | 208.2 | 156.8 | 98.1 | 80.8 | 73.5 | 98.1 | 95.6 | 112.6 | 122.4 | 120.1 |
| 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)