

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: P321332

Luminaire Tested: **GAN-SA8C-750-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321332
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8C-750-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45755 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

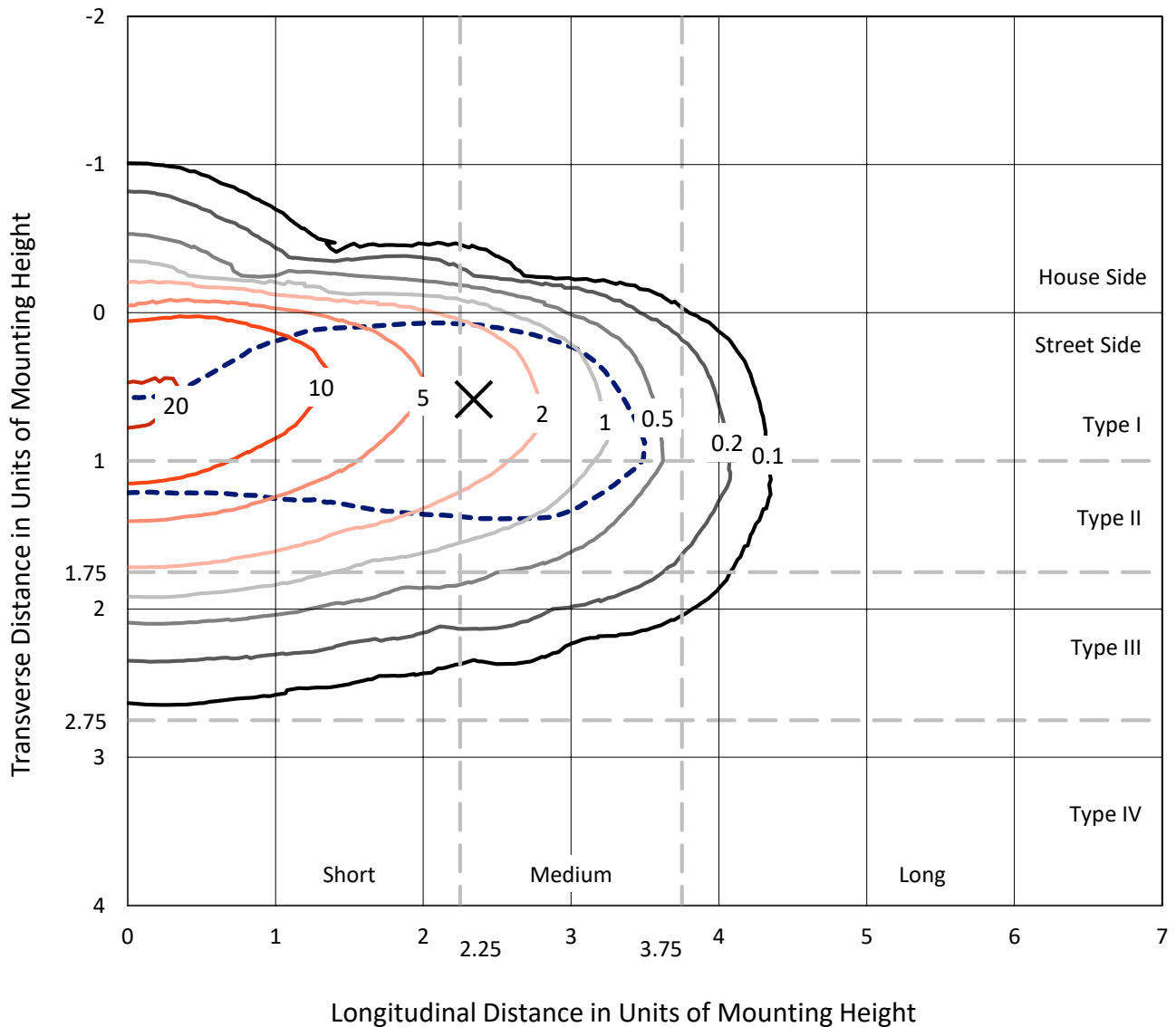
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

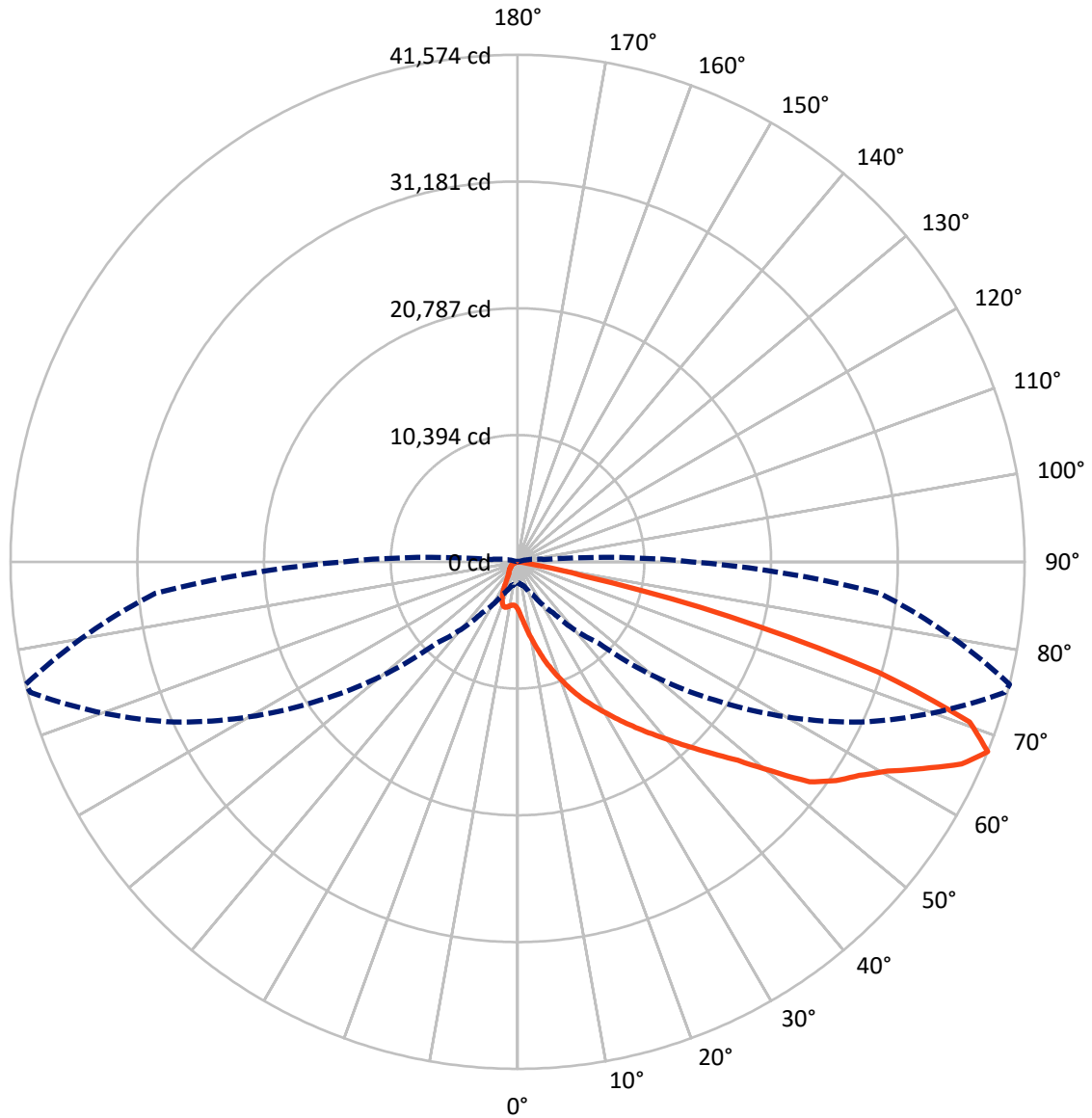
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2272.1 | 0.0 | 2272.1 |
| | % Fixture | 5.0 | 0.0 | 5.0 |
| Street Side | Lumens | 43482.9 | 0.0 | 43482.9 |
| | % Fixture | 95.0 | 0.0 | 95.0 |
| Total | Lumens | 45755.0 | 0.0 | 45755.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 482.6 | 1.1 |
| 10°-20° | 1913.3 | 4.2 |
| 20°-30° | 3892.8 | 8.5 |
| 30°-40° | 6756.7 | 14.8 |
| 40°-50° | 9546.4 | 20.9 |
| 50°-60° | 10826.0 | 23.7 |
| 60°-70° | 8979.2 | 19.6 |
| 70°-80° | 3252.5 | 7.1 |
| 80°-90° | 105.5 | 0.2 |
| 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° | 45755.0 | 100.0 |
| 0°-180° | 45755.0 | 100.0 |

Coefficient of Utilization

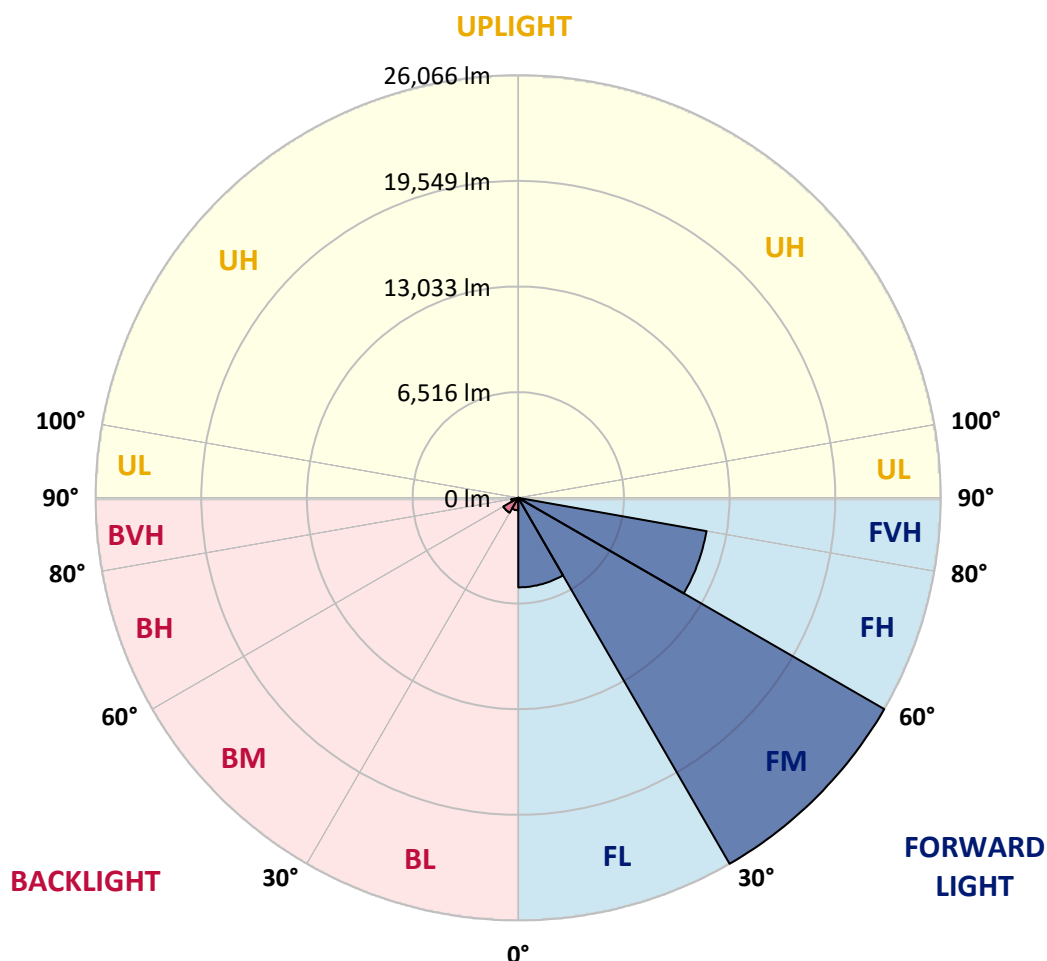


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 5522.5 | 12.1 | | | |
| FM (30°-60°) | 26065.7 | 57.0 | | | |
| FH (60°-80°) | 11792.6 | 25.8 | | | G4/12000 |
| FVH (80°-90°) | 102.2 | 0.2 | | | G2/225 |
| BL (0°-30°) | 766.3 | 1.7 | B2/1000 | | |
| BM (30°-60°) | 1063.4 | 2.3 | B2/2500 | | |
| BH (60°-80°) | 439.1 | 1.0 | B1/500 | | G1/500 |
| BVH (80°-90°) | 3.3 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3881.3 | 3881.3 | 3881.3 | 3881.3 | 3881.3 | 3881.3 | 3881.3 | 3881.3 | 3881.3 | 3881.3 | 3881.3 |
| 2.5° | 5794.0 | 5663.6 | 5693.7 | 5609.5 | 5457.1 | 5144.4 | 4877.7 | 4625.1 | 4330.4 | 4320.4 | 4077.8 |
| 5° | 7812.8 | 7702.6 | 7688.5 | 7518.1 | 7241.4 | 6710.2 | 6192.9 | 5603.5 | 4945.9 | 4897.8 | 4382.6 |
| 7.5° | 9645.2 | 9557.0 | 9524.9 | 9322.5 | 8807.2 | 8290.0 | 7616.3 | 6750.3 | 5721.8 | 5633.6 | 4793.5 |
| 10° | 11052.6 | 11010.5 | 11018.5 | 10874.2 | 10433.1 | 9952.0 | 9067.8 | 7963.2 | 6601.9 | 6465.6 | 5286.7 |
| 12.5° | 12119.2 | 12129.2 | 12201.4 | 12113.2 | 11866.6 | 11509.7 | 10565.4 | 9256.3 | 7576.2 | 7389.8 | 5850.1 |
| 15° | 12903.1 | 12953.2 | 13085.5 | 13195.8 | 13177.7 | 12869.0 | 12002.9 | 10569.5 | 8610.7 | 8404.2 | 6477.6 |
| 17.5° | 13410.3 | 13466.4 | 13658.9 | 13903.5 | 14128.0 | 14055.9 | 13390.3 | 11836.5 | 9657.3 | 9418.7 | 7149.2 |
| 20° | 13855.4 | 13921.5 | 14128.0 | 14450.8 | 14869.8 | 14960.0 | 14523.0 | 13065.5 | 10701.8 | 10411.1 | 7842.9 |
| 22.5° | 14819.7 | 14817.7 | 14944.0 | 15132.5 | 15531.4 | 15764.0 | 15487.3 | 14206.2 | 11734.3 | 11431.5 | 8550.6 |
| 25° | 16563.9 | 16497.7 | 16453.6 | 16305.3 | 16393.5 | 16537.8 | 16383.5 | 15272.8 | 12772.8 | 12466.0 | 9268.3 |
| 27.5° | 18636.9 | 18677.0 | 18320.1 | 17921.2 | 17612.4 | 17464.1 | 17211.5 | 16261.2 | 13771.2 | 13434.4 | 9970.0 |
| 30° | 20824.2 | 20836.2 | 20415.2 | 19905.9 | 19226.3 | 18663.0 | 18225.9 | 17205.4 | 14797.6 | 14430.8 | 10651.7 |
| 32.5° | 22796.9 | 22718.7 | 22301.7 | 21608.0 | 20750.0 | 20116.5 | 19208.3 | 18260.0 | 15884.3 | 15529.4 | 11409.5 |
| 35° | 24360.7 | 24268.5 | 23761.2 | 23129.7 | 22239.6 | 21602.0 | 20509.4 | 19312.5 | 17027.0 | 16680.2 | 12169.3 |
| 37.5° | 25503.4 | 25395.2 | 24873.9 | 24224.4 | 23456.5 | 23085.6 | 22019.0 | 20457.3 | 18274.0 | 17901.1 | 12969.2 |
| 40° | 25900.4 | 25806.2 | 25479.4 | 25004.2 | 24386.7 | 24302.5 | 23620.9 | 21774.4 | 19631.3 | 19234.3 | 13875.4 |
| 42.5° | 25663.8 | 25571.6 | 25455.3 | 25294.9 | 25038.3 | 25118.5 | 25132.5 | 23276.1 | 21138.9 | 20748.0 | 14875.8 |
| 45° | 24725.6 | 24643.4 | 24763.6 | 24998.2 | 25317.0 | 25713.9 | 26511.9 | 24890.0 | 22823.0 | 22406.0 | 16032.6 |
| 47.5° | 23344.2 | 23284.1 | 23616.9 | 24202.3 | 25134.5 | 26229.2 | 27772.9 | 26586.0 | 24713.5 | 24326.6 | 17476.1 |
| 50° | 21379.5 | 21369.5 | 22035.1 | 23103.7 | 24537.1 | 26477.8 | 29076.0 | 28514.7 | 27339.9 | 26932.9 | 19482.9 |
| 52.5° | 18320.1 | 18340.2 | 19649.3 | 21359.4 | 23488.6 | 26309.4 | 29914.1 | 30992.7 | 30395.2 | 29972.2 | 21221.1 |
| 55° | 15407.1 | 15527.4 | 16455.6 | 18921.6 | 21880.7 | 25683.9 | 30202.8 | 32149.4 | 32081.3 | 31680.3 | 22187.4 |
| 57.5° | 12554.2 | 12772.8 | 13666.9 | 15970.5 | 19533.1 | 24242.4 | 30044.4 | 32650.6 | 33336.3 | 33029.6 | 23462.5 |
| 60° | 9462.8 | 9563.0 | 10593.5 | 12746.7 | 16519.8 | 21612.1 | 28895.6 | 32923.3 | 35052.4 | 34839.9 | 25313.0 |
| 62.5° | 6020.5 | 6271.1 | 7185.3 | 9262.3 | 12863.0 | 17959.3 | 26958.9 | 32919.3 | 37199.6 | 37315.9 | 27700.7 |
| 65° | 3171.6 | 3464.3 | 3949.5 | 5739.8 | 8839.3 | 13879.4 | 24045.9 | 32610.6 | 39833.9 | 39996.3 | 29567.2 |
| 67.5° | 1710.1 | 1794.3 | 2050.9 | 2979.2 | 5126.3 | 9402.6 | 19765.6 | 31086.9 | 41359.6 | 41574.1 | 29827.8 |
| 70° | 1251.0 | 1297.1 | 1393.4 | 1648.0 | 2580.2 | 5461.2 | 14422.7 | 27632.6 | 39392.9 | 39312.7 | 26501.8 |
| 72.5° | 960.3 | 1032.5 | 1104.7 | 1206.9 | 1483.6 | 2915.0 | 8979.6 | 21638.1 | 31431.7 | 30902.4 | 19809.7 |
| 75° | 757.8 | 769.9 | 872.1 | 964.3 | 1112.7 | 1660.0 | 3987.6 | 12602.4 | 19184.2 | 17931.2 | 10272.7 |
| 77.5° | 605.5 | 613.5 | 673.6 | 753.8 | 894.2 | 1090.6 | 1235.0 | 4957.9 | 6124.8 | 5465.2 | 2229.4 |
| 80° | 358.9 | 378.9 | 501.2 | 581.4 | 741.8 | 687.7 | 451.1 | 1076.6 | 956.3 | 866.1 | 374.9 |
| 82.5° | 200.5 | 216.5 | 282.7 | 459.1 | 517.2 | 328.8 | 224.5 | 290.7 | 224.5 | 218.5 | 106.3 |
| 85° | 0.0 | 10.0 | 182.4 | 284.7 | 210.5 | 72.2 | 94.2 | 96.2 | 66.2 | 62.1 | 42.1 |
| 87.5° | 0.0 | 0.0 | 56.1 | 54.1 | 8.0 | 12.0 | 22.1 | 32.1 | 26.1 | 26.1 | 22.1 |
| 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° | 3881.3 | 3881.3 | 3881.3 | 3881.3 | 3881.3 | 3881.3 | 3881.3 | 3881.3 | 3881.3 | 3881.3 | 3881.3 |
| 2.5° | 3957.5 | 3849.3 | 3644.8 | 3444.3 | 3275.9 | 3137.6 | 3013.3 | 2963.1 | 2923.0 | 2917.0 | 2884.9 |
| 5° | 4134.0 | 3915.4 | 3524.5 | 3203.7 | 2989.2 | 2836.8 | 2706.5 | 2626.3 | 2564.2 | 2540.1 | 2518.1 |
| 7.5° | 4400.6 | 4069.8 | 3508.5 | 3139.6 | 2882.9 | 2626.3 | 2385.7 | 2125.1 | 1962.7 | 1900.6 | 1864.5 |
| 10° | 4725.4 | 4274.3 | 3568.6 | 3121.5 | 2672.4 | 2131.1 | 1732.2 | 1401.4 | 1267.1 | 1222.9 | 1210.9 |
| 12.5° | 5104.3 | 4528.9 | 3672.8 | 3009.2 | 2223.4 | 1513.6 | 1194.9 | 1082.6 | 1052.5 | 1038.5 | 1038.5 |
| 15° | 5539.3 | 4807.6 | 3747.0 | 2684.5 | 1644.0 | 1144.8 | 1034.5 | 982.4 | 950.3 | 932.2 | 934.3 |
| 17.5° | 5984.4 | 5080.2 | 3710.9 | 2213.3 | 1212.9 | 1018.5 | 936.3 | 880.1 | 836.0 | 818.0 | 814.0 |
| 20° | 6433.5 | 5332.8 | 3510.5 | 1648.0 | 1026.5 | 924.2 | 832.0 | 769.9 | 725.7 | 707.7 | 703.7 |
| 22.5° | 6898.6 | 5547.4 | 3157.6 | 1208.9 | 922.2 | 820.0 | 729.8 | 667.6 | 625.5 | 609.5 | 601.4 |
| 25° | 7351.7 | 5721.8 | 2664.4 | 978.4 | 824.0 | 721.7 | 635.5 | 577.4 | 539.3 | 523.3 | 521.3 |
| 27.5° | 7774.7 | 5832.0 | 2093.0 | 864.1 | 737.8 | 633.5 | 555.3 | 503.2 | 471.1 | 459.1 | 457.1 |
| 30° | 8155.6 | 5842.1 | 1547.7 | 779.9 | 661.6 | 557.3 | 485.2 | 439.1 | 411.0 | 399.0 | 395.0 |
| 32.5° | 8540.6 | 5757.9 | 1126.7 | 703.7 | 591.4 | 491.2 | 421.0 | 384.9 | 364.9 | 354.9 | 354.9 |
| 35° | 8903.4 | 5563.4 | 878.1 | 637.5 | 523.3 | 427.0 | 370.9 | 344.8 | 332.8 | 322.8 | 322.8 |
| 37.5° | 9258.3 | 5284.7 | 745.8 | 579.4 | 459.1 | 372.9 | 326.8 | 310.7 | 300.7 | 290.7 | 290.7 |
| 40° | 9619.2 | 4933.9 | 677.6 | 525.3 | 407.0 | 330.8 | 290.7 | 276.7 | 266.6 | 258.6 | 256.6 |
| 42.5° | 10062.2 | 4528.9 | 633.5 | 475.1 | 360.9 | 292.7 | 256.6 | 240.6 | 232.6 | 224.5 | 220.5 |
| 45° | 10575.5 | 4180.1 | 597.4 | 425.0 | 322.8 | 260.6 | 222.5 | 206.5 | 194.5 | 184.4 | 182.4 |
| 47.5° | 11315.3 | 3927.5 | 549.3 | 370.9 | 286.7 | 226.5 | 192.5 | 174.4 | 156.4 | 146.4 | 144.3 |
| 50° | 12259.5 | 3719.0 | 487.2 | 322.8 | 250.6 | 192.5 | 160.4 | 138.3 | 122.3 | 112.3 | 112.3 |
| 52.5° | 12728.7 | 3446.3 | 431.0 | 280.7 | 210.5 | 162.4 | 130.3 | 104.3 | 96.2 | 86.2 | 86.2 |
| 55° | 12917.1 | 3237.8 | 374.9 | 238.6 | 174.4 | 134.3 | 102.2 | 80.2 | 74.2 | 68.2 | 66.2 |
| 57.5° | 13446.4 | 3177.7 | 326.8 | 202.5 | 144.3 | 106.3 | 78.2 | 60.1 | 56.1 | 48.1 | 48.1 |
| 60° | 14298.4 | 3207.7 | 282.7 | 172.4 | 116.3 | 82.2 | 58.1 | 46.1 | 42.1 | 34.1 | 34.1 |
| 62.5° | 15218.7 | 3169.6 | 238.6 | 148.4 | 90.2 | 60.1 | 40.1 | 34.1 | 34.1 | 20.0 | 18.0 |
| 65° | 15395.1 | 2822.8 | 204.5 | 122.3 | 70.2 | 44.1 | 26.1 | 22.1 | 30.1 | 4.0 | 0.0 |
| 67.5° | 14288.4 | 2189.3 | 176.4 | 94.2 | 52.1 | 34.1 | 20.0 | 10.0 | 26.1 | 0.0 | 0.0 |
| 70° | 11425.5 | 1391.4 | 142.3 | 68.2 | 40.1 | 28.1 | 16.0 | 4.0 | 20.0 | 0.0 | 0.0 |
| 72.5° | 8079.5 | 807.9 | 112.3 | 48.1 | 34.1 | 22.1 | 12.0 | 0.0 | 12.0 | 0.0 | 0.0 |
| 75° | 4085.8 | 431.0 | 70.2 | 36.1 | 26.1 | 16.0 | 8.0 | 0.0 | 2.0 | 0.0 | 0.0 |
| 77.5° | 884.1 | 200.5 | 44.1 | 26.1 | 18.0 | 10.0 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 192.5 | 88.2 | 28.1 | 16.0 | 10.0 | 6.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 70.2 | 46.1 | 14.0 | 8.0 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 38.1 | 24.1 | 8.0 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 20.0 | 8.0 | 2.0 | 2.0 | 0.0 | 0.0 | 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)