

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: P194507

Luminaire Tested: **GAN-AF-09-LED-U-SL3-7060-800-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194507
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-SL3-7060-800-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 800mA 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: 42997 lumens
Efficiency: N/A
Efficacy: 115.0 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): 374
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

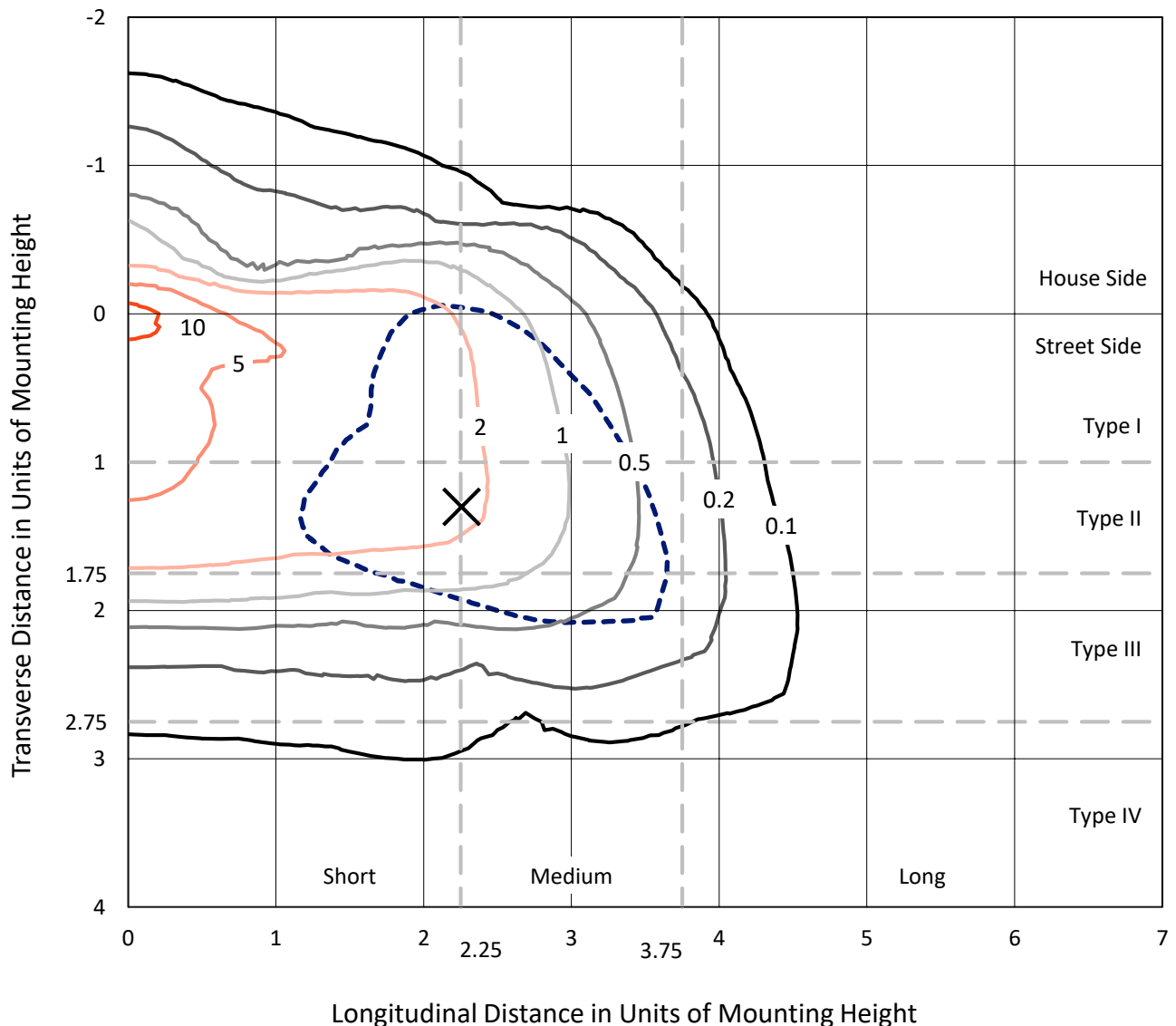


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

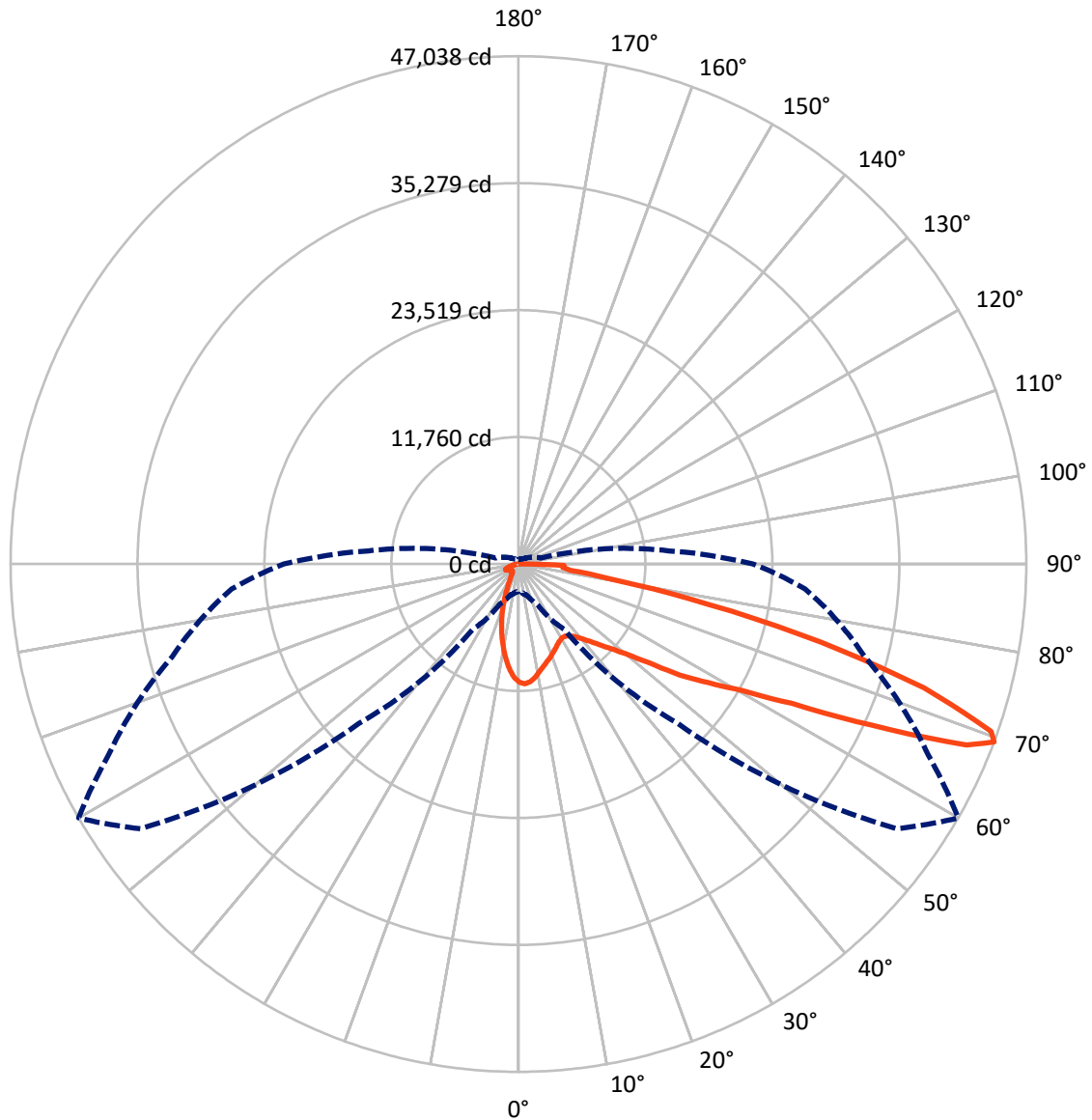


Based on 30 foot mounting height. Maximum calculated value = 12.2 fc
 Type III - Medium - Non-Cutoff

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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 | 6117.1 | 0.0 | 6117.1 |
| | % Fixture | 14.2 | 0.0 | 14.2 |
| Street Side | Lumens | 36879.9 | 0.0 | 36879.9 |
| | % Fixture | 85.8 | 0.0 | 85.8 |
| Total | Lumens | 42997.0 | 0.0 | 42997.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 926.4 | 2.2 |
| 10°-20° | 1973.7 | 4.6 |
| 20°-30° | 2514.9 | 5.8 |
| 30°-40° | 3457.3 | 8.0 |
| 40°-50° | 5609.9 | 13.0 |
| 50°-60° | 8996.8 | 20.9 |
| 60°-70° | 11974.1 | 27.8 |
| 70°-80° | 6465.1 | 15.0 |
| 80°-90° | 1078.7 | 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° | 42997.0 | 100.0 |
| 0°-180° | 42997.0 | 100.0 |

Coefficient of Utilization



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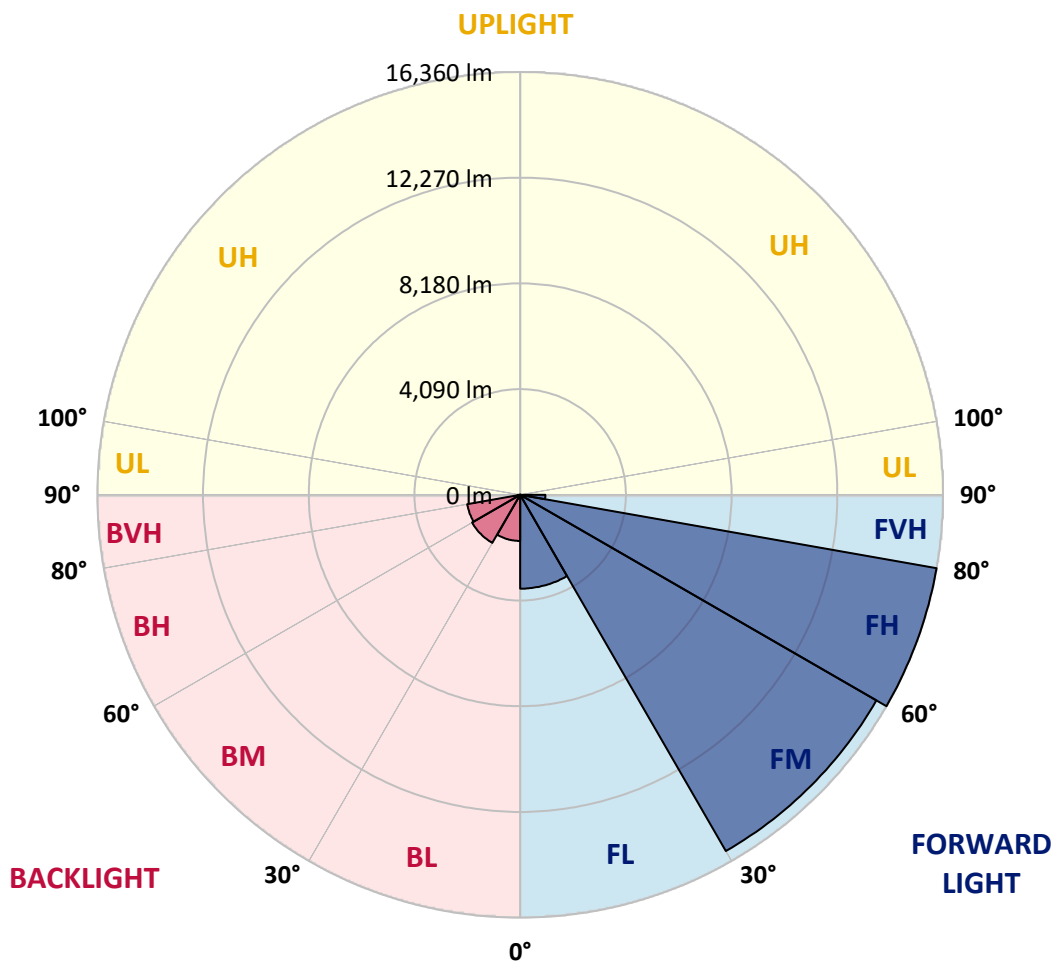
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3630.5 | 8.4 | | | |
| FM (30°-60°) | 15915.0 | 37.0 | | | |
| FH (60°-80°) | 16359.5 | 38.0 | | | G5 |
| FVH (80°-90°) | 974.9 | 2.3 | | | G5 |
| BL (0°-30°) | 1784.6 | 4.2 | B3/2500 | | |
| BM (30°-60°) | 2149.1 | 5.0 | B2/2500 | | |
| BH (60°-80°) | 2079.6 | 4.8 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 103.9 | 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° | 10956.3 | 10956.3 | 10956.3 | 10956.3 | 10956.3 | 10956.3 | 10956.3 | 10956.3 | 10956.3 | 10956.3 | 10956.3 |
| 2.5° | 11180.6 | 11205.5 | 11195.1 | 11188.9 | 11207.6 | 11178.5 | 11118.3 | 11099.6 | 11070.5 | 11002.0 | 10885.7 |
| 5° | 10761.0 | 10835.8 | 10831.7 | 10887.7 | 10981.2 | 11006.1 | 10979.1 | 10983.3 | 10929.3 | 10844.1 | 10651.0 |
| 7.5° | 10036.2 | 10067.3 | 10083.9 | 10206.5 | 10376.8 | 10513.9 | 10630.2 | 10667.6 | 10642.7 | 10570.0 | 10320.7 |
| 10° | 9288.4 | 9313.4 | 9352.8 | 9496.1 | 9712.2 | 9901.2 | 10121.3 | 10248.0 | 10302.0 | 10289.6 | 10011.2 |
| 12.5° | 8646.6 | 8671.6 | 8723.5 | 8885.5 | 9143.0 | 9375.7 | 9695.5 | 9853.4 | 9982.2 | 10059.0 | 9759.9 |
| 15° | 8071.3 | 8125.3 | 8175.2 | 8362.1 | 8650.8 | 8956.1 | 9317.5 | 9516.9 | 9716.3 | 9888.7 | 9537.7 |
| 17.5° | 7622.7 | 7676.7 | 7705.7 | 7876.1 | 8183.5 | 8557.3 | 8981.0 | 9215.7 | 9465.0 | 9747.5 | 9317.5 |
| 20° | 7363.0 | 7388.0 | 7375.5 | 7471.0 | 7747.3 | 8144.0 | 8646.6 | 8918.7 | 9219.9 | 9614.5 | 9097.4 |
| 22.5° | 7290.3 | 7292.4 | 7246.7 | 7236.3 | 7415.0 | 7749.4 | 8289.4 | 8619.6 | 8989.3 | 9527.3 | 8908.3 |
| 25° | 7466.9 | 7460.7 | 7336.0 | 7234.3 | 7253.0 | 7448.2 | 7944.6 | 8328.9 | 8796.2 | 9508.6 | 8763.0 |
| 27.5° | 7859.4 | 7878.1 | 7693.3 | 7502.2 | 7313.2 | 7307.0 | 7682.9 | 8087.9 | 8638.3 | 9593.8 | 8700.6 |
| 30° | 8409.9 | 8441.0 | 8243.7 | 8000.7 | 7645.5 | 7352.7 | 7581.1 | 7944.6 | 8540.7 | 9770.3 | 8690.3 |
| 32.5° | 9012.2 | 9045.4 | 8895.9 | 8640.4 | 8175.2 | 7635.1 | 7651.7 | 7957.1 | 8536.6 | 10017.5 | 8760.9 |
| 35° | 9654.0 | 9691.4 | 9614.5 | 9398.5 | 8881.3 | 8156.5 | 7921.8 | 8158.5 | 8671.6 | 10395.5 | 8949.9 |
| 37.5° | 10370.6 | 10428.7 | 10449.5 | 10243.9 | 9691.4 | 8844.0 | 8364.2 | 8540.7 | 8976.9 | 10921.0 | 9296.7 |
| 40° | 11402.8 | 11483.9 | 11477.6 | 11182.7 | 10619.8 | 9772.4 | 9047.5 | 9093.2 | 9452.5 | 11623.0 | 9851.3 |
| 42.5° | 13380.2 | 13396.8 | 12879.6 | 12237.8 | 11641.7 | 10748.6 | 9853.4 | 9816.0 | 10108.9 | 12512.0 | 10667.6 |
| 45° | 15895.4 | 15826.9 | 14676.2 | 13436.3 | 12709.3 | 11870.2 | 10902.3 | 10719.5 | 10941.7 | 13596.2 | 11689.5 |
| 47.5° | 17982.9 | 17825.0 | 16371.1 | 14659.6 | 13839.2 | 13089.4 | 12134.0 | 11814.1 | 11936.6 | 14825.8 | 13010.5 |
| 50° | 18707.7 | 18589.3 | 17384.7 | 15677.4 | 14908.9 | 14576.5 | 13650.2 | 13197.4 | 13230.6 | 16292.2 | 14557.8 |
| 52.5° | 18552.0 | 18535.3 | 17731.5 | 16348.2 | 15910.0 | 16138.5 | 15797.8 | 15185.1 | 14861.1 | 17920.5 | 16227.8 |
| 55° | 18184.3 | 18219.6 | 17928.8 | 17129.2 | 17054.4 | 17646.4 | 18603.9 | 18151.1 | 17143.7 | 19563.5 | 17953.8 |
| 57.5° | 16907.0 | 16998.3 | 17638.1 | 18111.6 | 18896.7 | 19777.4 | 20863.7 | 20734.9 | 19600.9 | 21339.3 | 20005.9 |
| 60° | 13621.1 | 13833.0 | 15548.6 | 17920.5 | 20793.1 | 23547.2 | 24033.2 | 23734.1 | 22134.8 | 23543.0 | 22716.4 |
| 62.5° | 9543.9 | 9764.1 | 11803.7 | 15515.4 | 20481.5 | 27805.1 | 29699.3 | 28409.5 | 25773.8 | 26789.4 | 26224.5 |
| 65° | 5109.5 | 5215.4 | 6773.2 | 10765.2 | 17291.2 | 28683.7 | 37980.4 | 36017.6 | 31535.4 | 30791.8 | 29225.8 |
| 67.5° | 2818.5 | 2876.7 | 3472.8 | 5435.6 | 11074.7 | 25258.7 | 43256.1 | 44739.0 | 38736.5 | 33456.7 | 28679.5 |
| 69° | 2548.5 | 2602.5 | 2993.0 | 4116.7 | 7410.8 | 20884.5 | 42740.9 | 47038.3 | 41893.5 | 33192.9 | 26660.6 |
| 70° | 2492.4 | 2542.3 | 2893.3 | 3794.7 | 5998.4 | 17214.4 | 41014.9 | 46450.5 | 42645.4 | 32247.8 | 24899.3 |
| 72.5° | 2243.2 | 2297.2 | 2637.8 | 3408.4 | 5126.1 | 8582.3 | 32488.8 | 39274.4 | 38717.8 | 27960.9 | 18886.4 |
| 75° | 2091.6 | 2141.4 | 2718.8 | 3337.8 | 4908.0 | 5431.4 | 21418.2 | 28945.4 | 28461.4 | 19559.3 | 10183.6 |
| 77.5° | 895.2 | 891.0 | 1260.8 | 2824.7 | 4980.7 | 5259.0 | 11508.8 | 18082.5 | 16497.8 | 8360.0 | 2924.4 |
| 80° | 598.2 | 587.8 | 598.2 | 830.8 | 4567.4 | 5288.1 | 6029.6 | 9178.4 | 6933.1 | 2131.0 | 1441.5 |
| 82.5° | 515.1 | 506.8 | 525.5 | 506.8 | 1605.5 | 6035.8 | 5126.1 | 4881.0 | 3296.2 | 1210.9 | 714.5 |
| 85° | 346.9 | 332.3 | 452.8 | 454.9 | 758.1 | 5362.9 | 5774.1 | 4122.9 | 2666.9 | 718.6 | 353.1 |
| 87.5° | 166.2 | 162.0 | 263.8 | 321.9 | 444.5 | 2178.8 | 6478.2 | 4224.7 | 2689.7 | 367.6 | 168.2 |
| 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° | 10956.3 | 10956.3 | 10956.3 | 10956.3 | 10956.3 | 10956.3 | 10956.3 | 10956.3 | 10956.3 | 10956.3 | 10956.3 |
| 2.5° | 10850.4 | 10765.2 | 10682.1 | 10582.4 | 10478.6 | 10362.3 | 10304.1 | 10245.9 | 10231.4 | 10214.8 | 10156.6 |
| 5° | 10551.3 | 10430.8 | 10223.1 | 9994.6 | 9753.7 | 9519.0 | 9340.4 | 9228.2 | 9143.0 | 9099.4 | 9022.6 |
| 7.5° | 10164.9 | 9988.4 | 9624.9 | 9230.3 | 8825.3 | 8455.6 | 8135.7 | 7934.2 | 7743.1 | 7653.8 | 7552.1 |
| 10° | 9797.3 | 9533.5 | 8968.6 | 8387.0 | 7805.4 | 7246.7 | 6721.2 | 6349.5 | 6019.2 | 5834.4 | 5703.5 |
| 12.5° | 9481.6 | 9120.2 | 8337.2 | 7550.0 | 6752.4 | 5956.9 | 5169.7 | 4550.8 | 4033.6 | 3761.5 | 3622.3 |
| 15° | 9174.2 | 8738.0 | 7736.9 | 6737.9 | 5713.9 | 4631.8 | 3597.4 | 2895.4 | 2467.5 | 2297.2 | 2239.0 |
| 17.5° | 8895.9 | 8337.2 | 7134.6 | 5919.5 | 4642.1 | 3333.6 | 2417.7 | 2031.3 | 1867.2 | 1811.2 | 1792.5 |
| 20° | 8594.7 | 7932.1 | 6509.4 | 5063.8 | 3524.7 | 2330.4 | 1888.0 | 1717.7 | 1651.2 | 1634.6 | 1626.3 |
| 22.5° | 8303.9 | 7533.4 | 5911.2 | 4147.8 | 2531.9 | 1798.7 | 1622.2 | 1551.5 | 1541.1 | 1555.7 | 1555.7 |
| 25° | 8056.8 | 7176.1 | 5265.2 | 3190.3 | 1858.9 | 1514.1 | 1451.8 | 1435.2 | 1474.7 | 1528.7 | 1539.1 |
| 27.5° | 7871.9 | 6883.2 | 4577.8 | 2355.3 | 1480.9 | 1316.8 | 1314.8 | 1341.8 | 1439.4 | 1543.2 | 1564.0 |
| 30° | 7745.2 | 6604.9 | 3842.5 | 1699.0 | 1242.1 | 1159.0 | 1192.2 | 1250.4 | 1393.7 | 1541.1 | 1580.6 |
| 32.5° | 7680.8 | 6399.3 | 3076.1 | 1314.8 | 1063.4 | 1017.7 | 1073.8 | 1144.4 | 1285.7 | 1422.8 | 1474.7 |
| 35° | 7730.7 | 6247.7 | 2353.3 | 1096.7 | 938.8 | 903.5 | 961.7 | 1030.2 | 1113.3 | 1171.4 | 1210.9 |
| 37.5° | 7917.6 | 6187.4 | 1775.9 | 982.4 | 853.7 | 820.4 | 866.1 | 905.6 | 938.8 | 955.4 | 974.1 |
| 40° | 8320.5 | 6251.8 | 1422.8 | 924.3 | 805.9 | 764.3 | 783.0 | 797.6 | 818.3 | 835.0 | 843.3 |
| 42.5° | 8914.6 | 6445.0 | 1275.3 | 901.4 | 781.0 | 720.7 | 716.6 | 722.8 | 749.8 | 781.0 | 787.2 |
| 45° | 9745.4 | 6785.6 | 1264.9 | 916.0 | 768.5 | 685.4 | 666.7 | 675.0 | 716.6 | 764.3 | 772.7 |
| 47.5° | 10806.7 | 7304.9 | 1348.0 | 959.6 | 778.9 | 666.7 | 635.6 | 646.0 | 697.9 | 762.3 | 772.7 |
| 50° | 12092.4 | 8029.8 | 1487.1 | 1024.0 | 824.6 | 670.9 | 625.2 | 631.4 | 685.4 | 756.0 | 766.4 |
| 52.5° | 13610.7 | 9057.9 | 1638.8 | 1086.3 | 872.3 | 697.9 | 633.5 | 619.0 | 668.8 | 731.1 | 743.6 |
| 55° | 15299.3 | 10376.8 | 1794.5 | 1142.4 | 897.3 | 731.1 | 650.1 | 602.3 | 637.6 | 689.6 | 700.0 |
| 57.5° | 17372.2 | 12221.2 | 2064.6 | 1196.4 | 913.9 | 754.0 | 666.7 | 585.7 | 598.2 | 635.6 | 643.9 |
| 60° | 20178.3 | 14829.9 | 2540.2 | 1285.7 | 951.3 | 762.3 | 664.6 | 571.2 | 558.7 | 579.5 | 583.6 |
| 62.5° | 23541.0 | 17663.0 | 2936.9 | 1397.8 | 1013.6 | 768.5 | 652.2 | 560.8 | 525.5 | 525.5 | 529.6 |
| 65° | 25537.0 | 18421.1 | 2716.7 | 1491.3 | 1065.5 | 762.3 | 637.6 | 550.4 | 500.6 | 477.7 | 479.8 |
| 67.5° | 23844.2 | 16200.8 | 2328.3 | 1510.0 | 1063.4 | 733.2 | 614.8 | 531.7 | 475.6 | 440.3 | 438.3 |
| 69° | 21723.6 | 13978.4 | 2153.9 | 1460.1 | 1013.6 | 695.8 | 585.7 | 510.9 | 456.9 | 419.6 | 417.5 |
| 70° | 20014.2 | 12622.1 | 2039.6 | 1406.1 | 959.6 | 668.8 | 562.9 | 492.3 | 442.4 | 407.1 | 402.9 |
| 72.5° | 14551.6 | 8270.7 | 1742.6 | 1208.8 | 791.3 | 560.8 | 486.0 | 432.0 | 394.6 | 373.9 | 369.7 |
| 75° | 7271.7 | 3944.3 | 1414.5 | 980.4 | 606.5 | 448.6 | 398.8 | 361.4 | 342.7 | 338.6 | 336.5 |
| 77.5° | 2388.6 | 1807.0 | 1011.5 | 731.1 | 450.7 | 351.0 | 321.9 | 294.9 | 290.8 | 303.2 | 299.1 |
| 80° | 1312.7 | 1051.0 | 641.8 | 483.9 | 307.4 | 257.6 | 253.4 | 238.9 | 245.1 | 265.9 | 261.7 |
| 82.5° | 668.8 | 546.3 | 396.7 | 290.8 | 207.7 | 184.9 | 201.5 | 193.2 | 201.5 | 220.2 | 218.1 |
| 85° | 330.2 | 299.1 | 251.3 | 176.5 | 137.1 | 118.4 | 143.3 | 149.5 | 153.7 | 168.2 | 168.2 |
| 87.5° | 191.1 | 176.5 | 132.9 | 83.1 | 68.5 | 62.3 | 83.1 | 81.0 | 95.5 | 103.9 | 101.8 |
| 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)