

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: P194517

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194517
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-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 1050mA 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: 53218 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B4 - U0 - G5

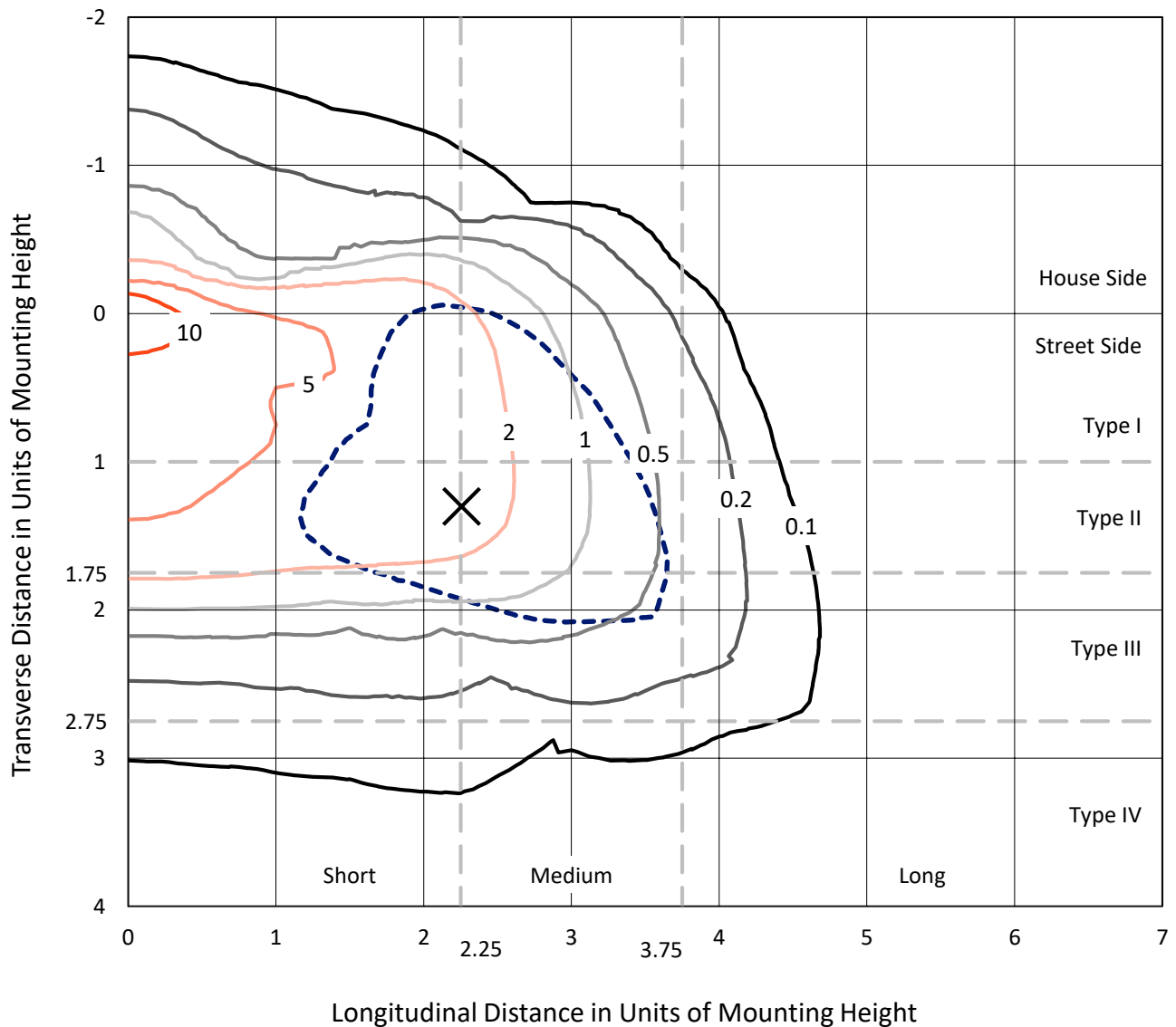
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

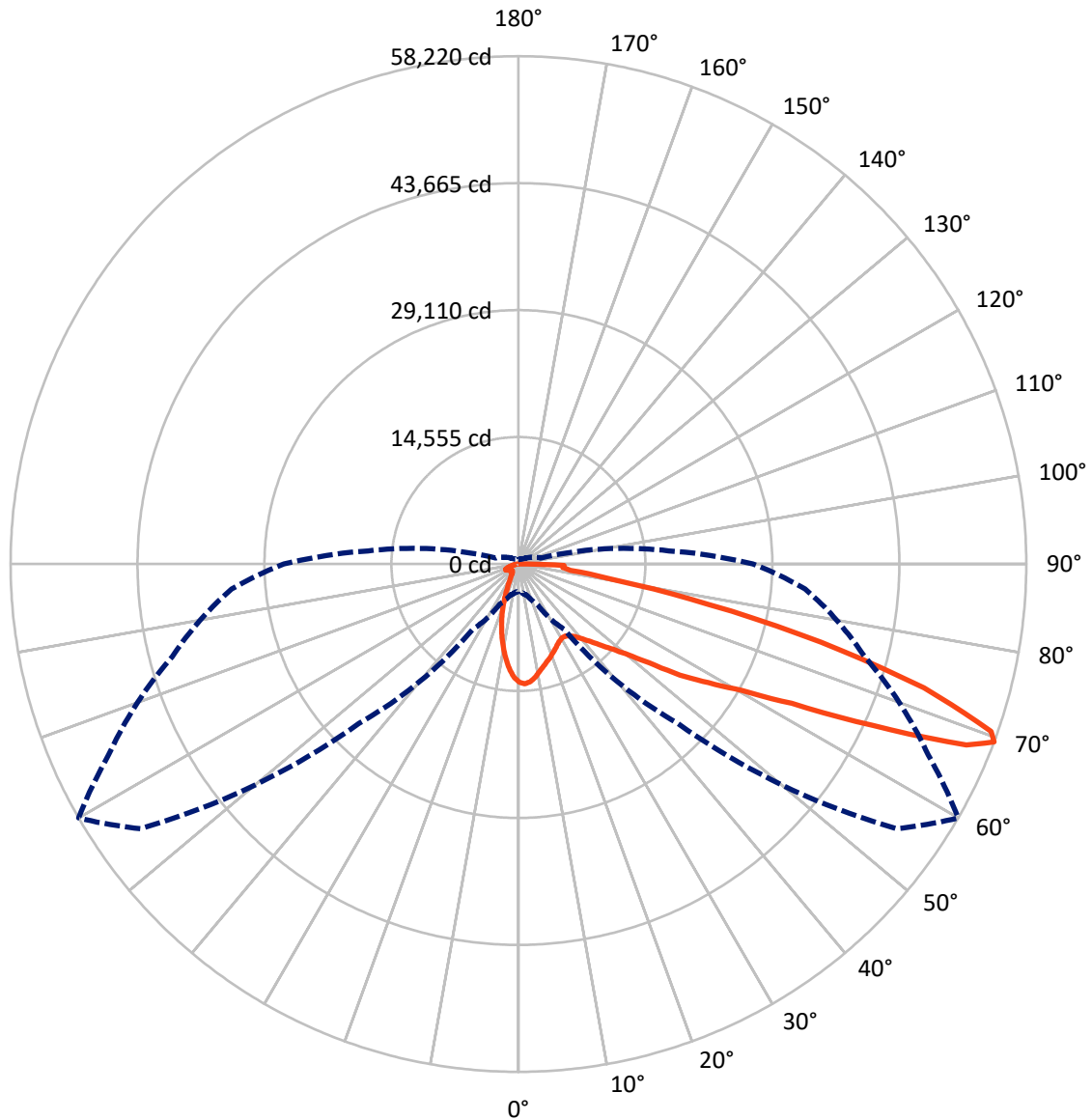
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 15.1 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 | 7571.3 | 0.0 | 7571.3 |
| | % Fixture | 14.2 | 0.0 | 14.2 |
| Street Side | Lumens | 45646.8 | 0.0 | 45646.8 |
| | % Fixture | 85.8 | 0.0 | 85.8 |
| Total | Lumens | 53218.0 | 0.0 | 53218.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1146.6 | 2.2 |
| 10°-20° | 2442.9 | 4.6 |
| 20°-30° | 3112.7 | 5.8 |
| 30°-40° | 4279.2 | 8.0 |
| 40°-50° | 6943.4 | 13.0 |
| 50°-60° | 11135.5 | 20.9 |
| 60°-70° | 14820.5 | 27.8 |
| 70°-80° | 8001.9 | 15.0 |
| 80°-90° | 1335.2 | 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° | 53218.0 | 100.0 |
| 0°-180° | 53218.0 | 100.0 |

Coefficient of Utilization



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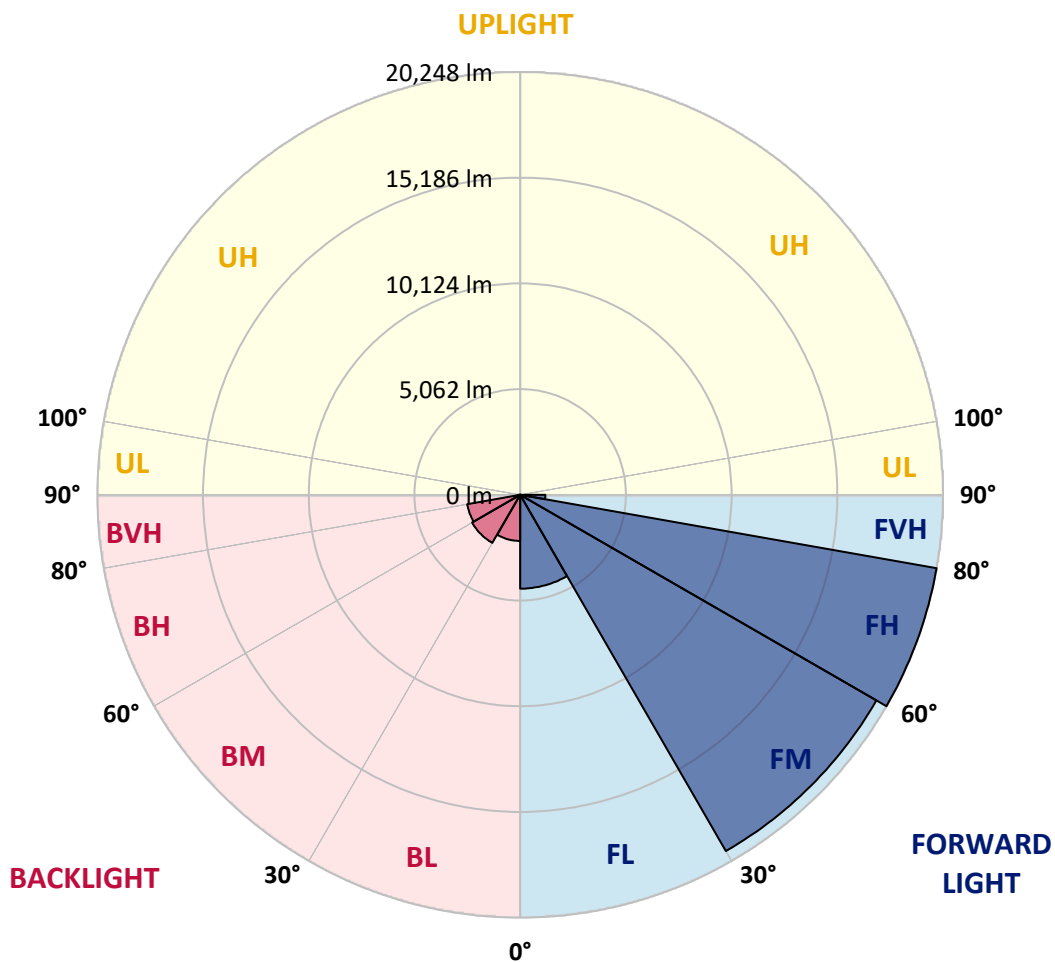
CATALOG NUMBER: GAN-AF-09-LED-U-SL3-7060-ADJ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4493.5 | 8.4 | | | |
| FM (30°-60°) | 19698.2 | 37.0 | | | |
| FH (60°-80°) | 20248.4 | 38.0 | | | G5 |
| FVH (80°-90°) | 1206.6 | 2.3 | | | G5 |
| BL (0°-30°) | 2208.8 | 4.2 | B3/2500 | | |
| BM (30°-60°) | 2659.9 | 5.0 | B3/5000 | | |
| BH (60°-80°) | 2574.0 | 4.8 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 128.6 | 0.2 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 13560.8 | 13560.8 | 13560.8 | 13560.8 | 13560.8 | 13560.8 | 13560.8 | 13560.8 | 13560.8 | 13560.8 | 13560.8 |
| 2.5° | 13838.4 | 13869.2 | 13856.4 | 13848.7 | 13871.8 | 13835.8 | 13761.3 | 13738.1 | 13702.1 | 13617.3 | 13473.3 |
| 5° | 13319.1 | 13411.7 | 13406.5 | 13475.9 | 13591.6 | 13622.5 | 13589.0 | 13594.2 | 13527.3 | 13421.9 | 13182.9 |
| 7.5° | 12421.9 | 12460.5 | 12481.0 | 12632.7 | 12843.5 | 13013.2 | 13157.1 | 13203.4 | 13172.6 | 13082.6 | 12774.1 |
| 10° | 11496.4 | 11527.3 | 11576.1 | 11753.5 | 12020.9 | 12254.8 | 12527.3 | 12684.1 | 12751.0 | 12735.5 | 12391.1 |
| 12.5° | 10702.1 | 10732.9 | 10797.2 | 10997.7 | 11316.5 | 11604.4 | 12000.3 | 12195.7 | 12355.1 | 12450.2 | 12080.0 |
| 15° | 9990.0 | 10056.8 | 10118.5 | 10349.9 | 10707.2 | 11085.1 | 11532.4 | 11779.2 | 12026.0 | 12239.4 | 11804.9 |
| 17.5° | 9434.7 | 9501.5 | 9537.5 | 9748.3 | 10128.8 | 10591.5 | 11116.0 | 11406.5 | 11714.9 | 12064.6 | 11532.4 |
| 20° | 9113.3 | 9144.2 | 9128.8 | 9247.0 | 9588.9 | 10079.9 | 10702.1 | 11038.8 | 11411.6 | 11900.0 | 11259.9 |
| 22.5° | 9023.4 | 9025.9 | 8969.4 | 8956.5 | 9177.6 | 9591.5 | 10259.9 | 10668.7 | 11126.2 | 11792.1 | 11026.0 |
| 25° | 9241.9 | 9234.2 | 9079.9 | 8954.0 | 8977.1 | 9218.7 | 9833.2 | 10308.7 | 10887.2 | 11768.9 | 10846.0 |
| 27.5° | 9727.8 | 9750.9 | 9522.1 | 9285.6 | 9051.6 | 9043.9 | 9509.2 | 10010.5 | 10691.8 | 11874.3 | 10768.9 |
| 30° | 10409.0 | 10447.6 | 10203.3 | 9902.6 | 9463.0 | 9100.5 | 9383.3 | 9833.2 | 10571.0 | 12092.9 | 10756.1 |
| 32.5° | 11154.5 | 11195.7 | 11010.6 | 10694.4 | 10118.5 | 9450.1 | 9470.7 | 9848.6 | 10565.8 | 12398.8 | 10843.5 |
| 35° | 11948.9 | 11995.2 | 11900.0 | 11632.7 | 10992.6 | 10095.4 | 9804.9 | 10097.9 | 10732.9 | 12866.6 | 11077.4 |
| 37.5° | 12835.8 | 12907.8 | 12933.5 | 12679.0 | 11995.2 | 10946.3 | 10352.4 | 10571.0 | 11110.8 | 13517.1 | 11506.7 |
| 40° | 14113.5 | 14213.7 | 14206.0 | 13841.0 | 13144.3 | 12095.4 | 11198.2 | 11254.8 | 11699.5 | 14386.0 | 12193.1 |
| 42.5° | 16560.8 | 16581.4 | 15941.3 | 15146.9 | 14409.1 | 13303.7 | 12195.7 | 12149.4 | 12511.9 | 15486.3 | 13203.4 |
| 45° | 19674.0 | 19589.2 | 18165.0 | 16630.2 | 15730.5 | 14691.9 | 13493.9 | 13267.7 | 13542.8 | 16828.2 | 14468.2 |
| 47.5° | 22257.6 | 22062.3 | 20262.7 | 18144.4 | 17129.0 | 16200.9 | 15018.4 | 14622.5 | 14774.2 | 18350.1 | 16103.2 |
| 50° | 23154.8 | 23008.3 | 21517.3 | 19404.1 | 18452.9 | 18041.6 | 16895.0 | 16334.6 | 16375.7 | 20165.0 | 18018.5 |
| 52.5° | 22962.0 | 22941.5 | 21946.6 | 20234.4 | 19692.0 | 19974.8 | 19553.2 | 18794.8 | 18393.8 | 22180.5 | 20085.3 |
| 55° | 22507.0 | 22550.7 | 22190.8 | 21201.1 | 21108.5 | 21841.2 | 23026.3 | 22465.9 | 21219.0 | 24214.0 | 22221.6 |
| 57.5° | 20926.0 | 21039.1 | 21830.9 | 22417.0 | 23388.8 | 24478.8 | 25823.3 | 25663.9 | 24260.3 | 26412.0 | 24761.6 |
| 60° | 16859.0 | 17121.3 | 19244.7 | 22180.5 | 25735.9 | 29144.7 | 29746.3 | 29376.1 | 27396.6 | 29139.6 | 28116.4 |
| 62.5° | 11812.6 | 12085.1 | 14609.6 | 19203.6 | 25350.3 | 34414.8 | 36759.3 | 35162.8 | 31900.6 | 33157.7 | 32458.4 |
| 65° | 6324.1 | 6455.2 | 8383.2 | 13324.2 | 21401.6 | 35502.2 | 47008.9 | 44579.5 | 39031.8 | 38111.5 | 36173.2 |
| 67.5° | 3488.5 | 3560.5 | 4298.3 | 6727.7 | 13707.3 | 31263.0 | 53538.6 | 55374.2 | 47944.7 | 41409.8 | 35497.0 |
| 69° | 3154.3 | 3221.2 | 3704.5 | 5095.2 | 9172.5 | 25849.0 | 52901.1 | 58220.0 | 51852.2 | 41083.3 | 32998.3 |
| 70° | 3084.9 | 3146.6 | 3581.1 | 4696.8 | 7424.4 | 21306.5 | 50764.8 | 57492.5 | 52782.8 | 39913.6 | 30818.3 |
| 72.5° | 2776.4 | 2843.3 | 3264.9 | 4218.6 | 6344.6 | 10622.4 | 40211.8 | 48610.5 | 47921.5 | 34607.6 | 23375.9 |
| 75° | 2588.8 | 2650.5 | 3365.1 | 4131.2 | 6074.7 | 6722.5 | 26509.7 | 35826.1 | 35227.1 | 24208.8 | 12604.4 |
| 77.5° | 1108.0 | 1102.9 | 1560.5 | 3496.2 | 6164.7 | 6509.2 | 14244.6 | 22381.0 | 20419.5 | 10347.3 | 3619.6 |
| 80° | 740.4 | 727.5 | 740.4 | 1028.3 | 5653.1 | 6545.2 | 7462.9 | 11360.2 | 8581.2 | 2637.6 | 1784.1 |
| 82.5° | 637.5 | 627.3 | 650.4 | 627.3 | 1987.2 | 7470.6 | 6344.6 | 6041.3 | 4079.8 | 1498.8 | 884.3 |
| 85° | 429.3 | 411.3 | 560.4 | 563.0 | 938.3 | 6637.7 | 7146.7 | 5103.0 | 3300.9 | 889.5 | 437.0 |
| 87.5° | 205.7 | 200.5 | 326.5 | 398.5 | 550.1 | 2696.7 | 8018.2 | 5228.9 | 3329.1 | 455.0 | 208.2 |
| 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° | 13560.8 | 13560.8 | 13560.8 | 13560.8 | 13560.8 | 13560.8 | 13560.8 | 13560.8 | 13560.8 | 13560.8 | 13560.8 |
| 2.5° | 13429.6 | 13324.2 | 13221.4 | 13098.0 | 12969.5 | 12825.5 | 12753.5 | 12681.6 | 12663.6 | 12643.0 | 12571.0 |
| 5° | 13059.5 | 12910.4 | 12653.3 | 12370.5 | 12072.3 | 11781.8 | 11560.7 | 11421.9 | 11316.5 | 11262.5 | 11167.4 |
| 7.5° | 12581.3 | 12362.8 | 11912.9 | 11424.5 | 10923.2 | 10465.6 | 10069.7 | 9820.3 | 9583.8 | 9473.2 | 9347.3 |
| 10° | 12126.3 | 11799.8 | 11100.5 | 10380.7 | 9660.9 | 8969.4 | 8319.0 | 7858.8 | 7450.1 | 7221.3 | 7059.3 |
| 12.5° | 11735.5 | 11288.2 | 10319.0 | 9344.7 | 8357.5 | 7372.9 | 6398.6 | 5632.5 | 4992.4 | 4655.6 | 4483.4 |
| 15° | 11355.0 | 10815.2 | 9576.1 | 8339.5 | 7072.2 | 5732.8 | 4452.6 | 3583.6 | 3054.1 | 2843.3 | 2771.3 |
| 17.5° | 11010.6 | 10319.0 | 8830.6 | 7326.7 | 5745.6 | 4126.1 | 2992.4 | 2514.2 | 2311.1 | 2241.7 | 2218.6 |
| 20° | 10637.8 | 9817.7 | 8056.8 | 6267.5 | 4362.6 | 2884.4 | 2336.8 | 2126.0 | 2043.8 | 2023.2 | 2012.9 |
| 22.5° | 10277.9 | 9324.1 | 7316.4 | 5133.8 | 3133.8 | 2226.3 | 2007.8 | 1920.4 | 1907.5 | 1925.5 | 1925.5 |
| 25° | 9972.0 | 8882.0 | 6516.9 | 3948.7 | 2300.8 | 1874.1 | 1797.0 | 1776.4 | 1825.2 | 1892.1 | 1904.9 |
| 27.5° | 9743.2 | 8519.5 | 5666.0 | 2915.2 | 1833.0 | 1629.9 | 1627.3 | 1660.7 | 1781.5 | 1910.1 | 1935.8 |
| 30° | 9586.4 | 8175.0 | 4755.9 | 2102.9 | 1537.3 | 1434.5 | 1475.6 | 1547.6 | 1725.0 | 1907.5 | 1956.3 |
| 32.5° | 9506.7 | 7920.5 | 3807.3 | 1627.3 | 1316.2 | 1259.7 | 1329.1 | 1416.5 | 1591.3 | 1761.0 | 1825.2 |
| 35° | 9568.4 | 7732.8 | 2912.7 | 1357.4 | 1162.0 | 1118.3 | 1190.3 | 1275.1 | 1377.9 | 1449.9 | 1498.8 |
| 37.5° | 9799.7 | 7658.3 | 2198.0 | 1216.0 | 1056.6 | 1015.4 | 1072.0 | 1120.9 | 1162.0 | 1182.5 | 1205.7 |
| 40° | 10298.5 | 7738.0 | 1761.0 | 1144.0 | 997.5 | 946.0 | 969.2 | 987.2 | 1012.9 | 1033.4 | 1043.7 |
| 42.5° | 11033.7 | 7977.1 | 1578.4 | 1115.7 | 966.6 | 892.1 | 886.9 | 894.6 | 928.0 | 966.6 | 974.3 |
| 45° | 12062.0 | 8398.7 | 1565.6 | 1133.7 | 951.2 | 848.4 | 825.2 | 835.5 | 886.9 | 946.0 | 956.3 |
| 47.5° | 13375.7 | 9041.4 | 1668.4 | 1187.7 | 964.0 | 825.2 | 786.7 | 799.5 | 863.8 | 943.5 | 956.3 |
| 50° | 14967.0 | 9938.6 | 1840.7 | 1267.4 | 1020.6 | 830.4 | 773.8 | 781.5 | 848.4 | 935.8 | 948.6 |
| 52.5° | 16846.2 | 11211.1 | 2028.3 | 1344.5 | 1079.7 | 863.8 | 784.1 | 766.1 | 827.8 | 904.9 | 920.3 |
| 55° | 18936.2 | 12843.5 | 2221.1 | 1413.9 | 1110.6 | 904.9 | 804.6 | 745.5 | 789.2 | 853.5 | 866.3 |
| 57.5° | 21501.8 | 15126.3 | 2555.3 | 1480.8 | 1131.1 | 933.2 | 825.2 | 725.0 | 740.4 | 786.7 | 796.9 |
| 60° | 24974.9 | 18355.2 | 3144.0 | 1591.3 | 1177.4 | 943.5 | 822.6 | 707.0 | 691.5 | 717.2 | 722.4 |
| 62.5° | 29137.0 | 21861.7 | 3635.1 | 1730.1 | 1254.5 | 951.2 | 807.2 | 694.1 | 650.4 | 650.4 | 655.5 |
| 65° | 31607.5 | 22800.1 | 3362.6 | 1845.8 | 1318.8 | 943.5 | 789.2 | 681.3 | 619.6 | 591.3 | 593.8 |
| 67.5° | 29512.3 | 20051.9 | 2881.8 | 1868.9 | 1316.2 | 907.5 | 760.9 | 658.1 | 588.7 | 545.0 | 542.4 |
| 69° | 26887.6 | 17301.2 | 2665.9 | 1807.2 | 1254.5 | 861.2 | 725.0 | 632.4 | 565.6 | 519.3 | 516.7 |
| 70° | 24771.8 | 15622.5 | 2524.5 | 1740.4 | 1187.7 | 827.8 | 696.7 | 609.3 | 547.6 | 503.9 | 498.7 |
| 72.5° | 18010.7 | 10236.8 | 2156.9 | 1496.2 | 979.5 | 694.1 | 601.6 | 534.7 | 488.4 | 462.7 | 457.6 |
| 75° | 9000.2 | 4881.9 | 1750.7 | 1213.4 | 750.7 | 555.3 | 493.6 | 447.3 | 424.2 | 419.0 | 416.5 |
| 77.5° | 2956.4 | 2236.6 | 1252.0 | 904.9 | 557.9 | 434.5 | 398.5 | 365.0 | 359.9 | 375.3 | 370.2 |
| 80° | 1624.7 | 1300.8 | 794.4 | 599.0 | 380.5 | 318.8 | 313.6 | 295.6 | 303.3 | 329.1 | 323.9 |
| 82.5° | 827.8 | 676.1 | 491.0 | 359.9 | 257.1 | 228.8 | 249.4 | 239.1 | 249.4 | 272.5 | 269.9 |
| 85° | 408.8 | 370.2 | 311.1 | 218.5 | 169.7 | 146.5 | 177.4 | 185.1 | 190.2 | 208.2 | 208.2 |
| 87.5° | 236.5 | 218.5 | 164.5 | 102.8 | 84.8 | 77.1 | 102.8 | 100.3 | 118.3 | 128.5 | 126.0 |
| 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)