

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: P193105

Luminaire Tested: **GAN-AF-07-LED-U-T2-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193105
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-07-LED-U-T2-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32286.1 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G4

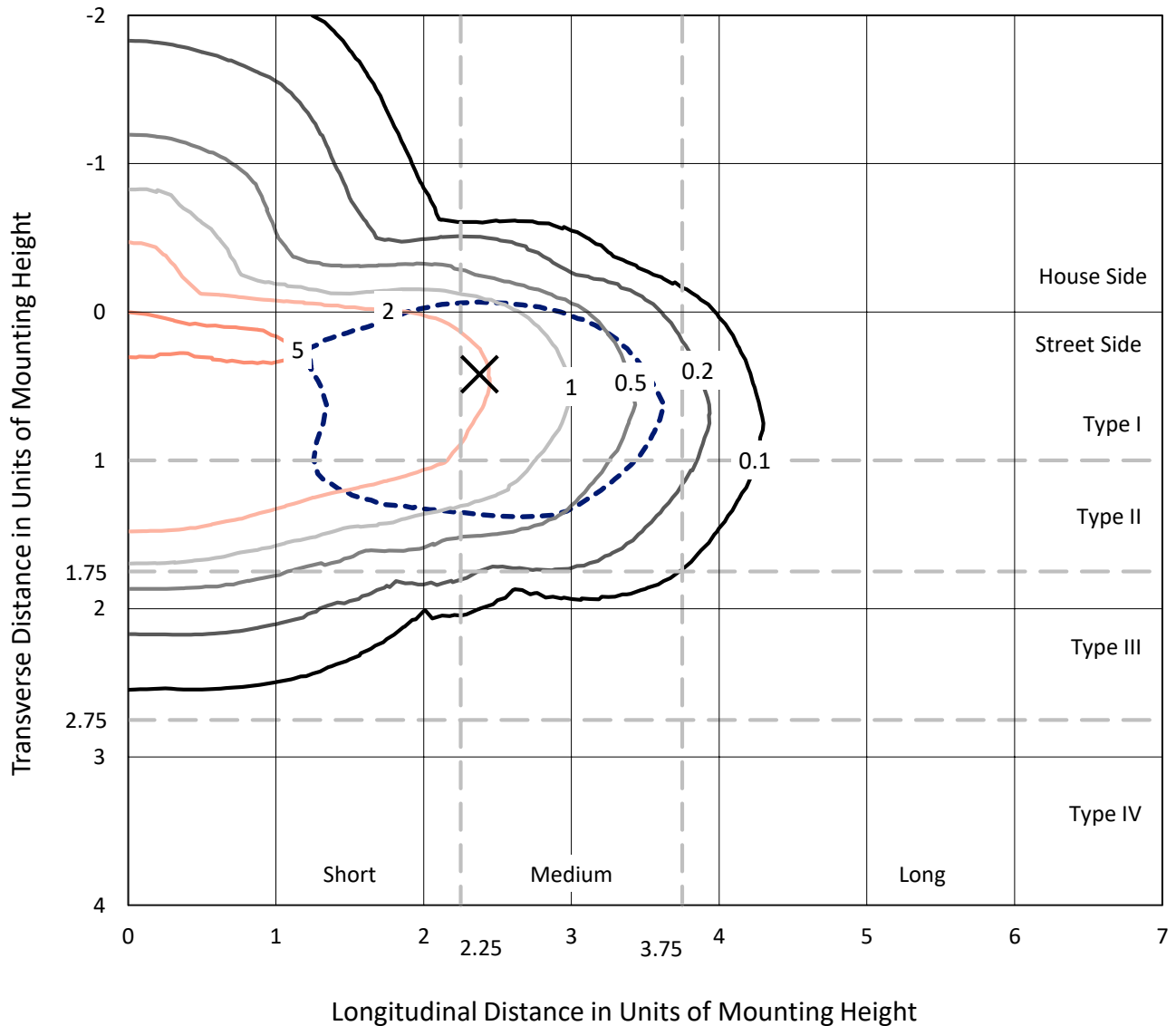
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

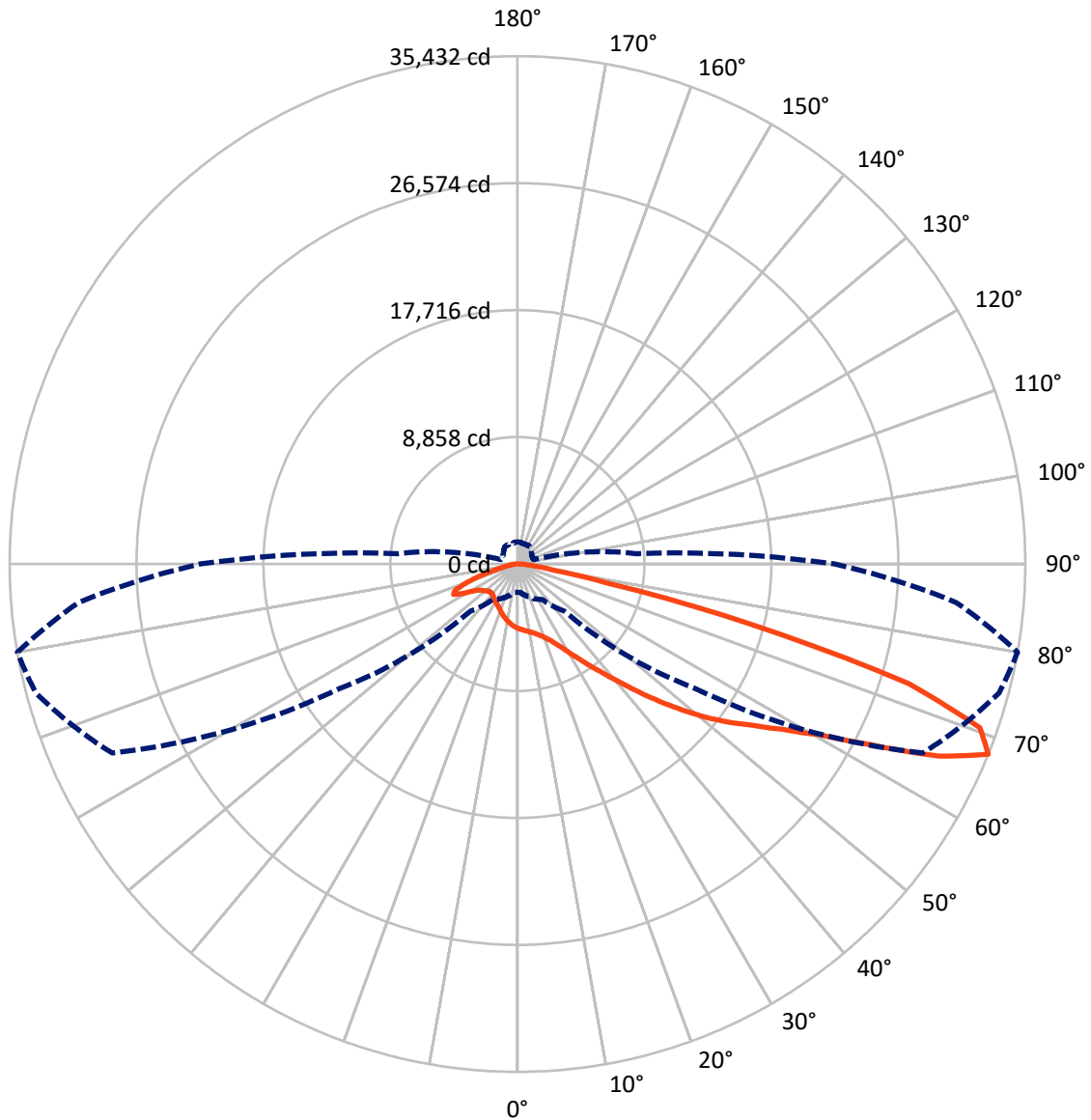
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5945.9 | 0.0 | 5945.9 |
| | % Fixture | 18.4 | 0.0 | 18.4 |
| Street Side | Lumens | 26340.3 | 0.0 | 26340.3 |
| | % Fixture | 81.6 | 0.0 | 81.6 |
| Total | Lumens | 32286.1 | 0.0 | 32286.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 413.8 | 1.3 |
| 10°-20° | 1191.9 | 3.7 |
| 20°-30° | 1972.9 | 6.1 |
| 30°-40° | 3227.2 | 10.0 |
| 40°-50° | 5210.6 | 16.1 |
| 50°-60° | 7522.6 | 23.3 |
| 60°-70° | 8301.6 | 25.7 |
| 70°-80° | 3826.5 | 11.9 |
| 80°-90° | 618.9 | 1.9 |
| 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° | 32286.1 | 100.0 |
| 0°-180° | 32286.1 | 100.0 |



REPORT NUMBER: P193105

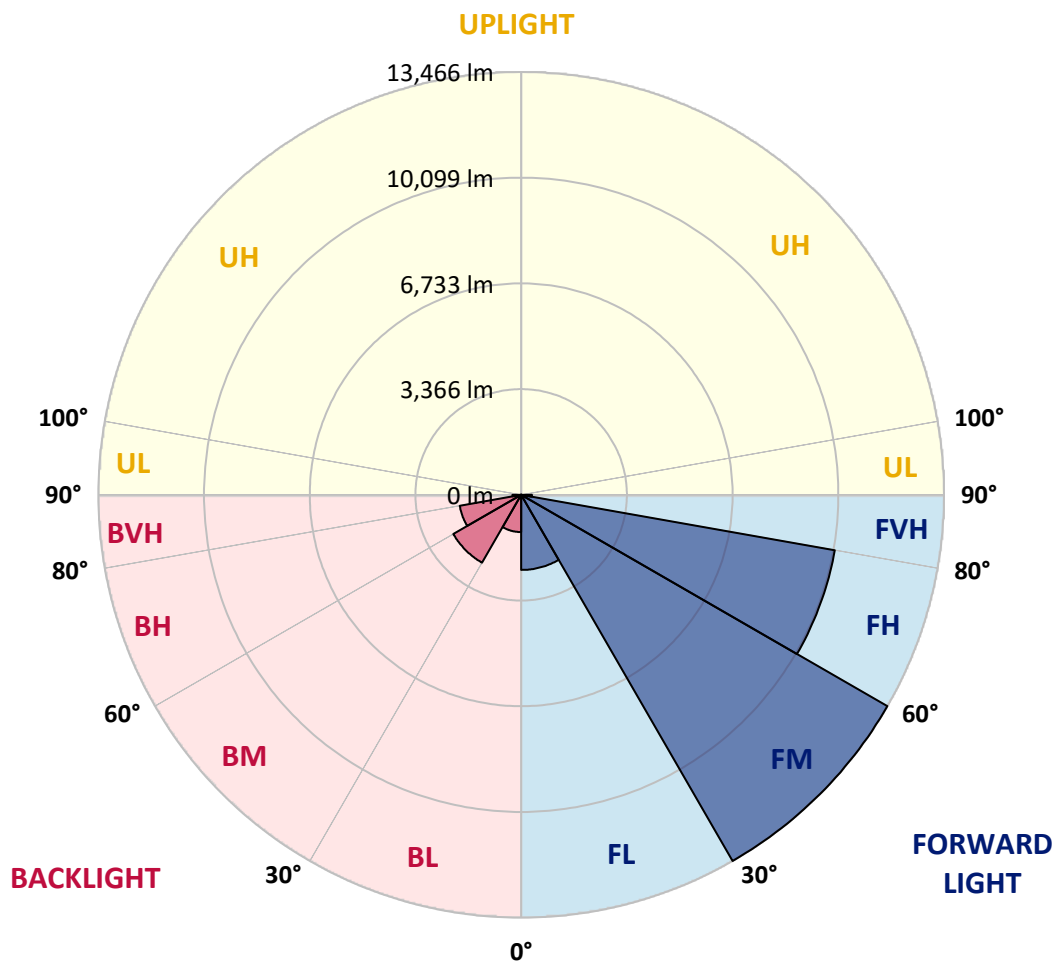
CATALOG NUMBER: GAN-AF-07-LED-U-T2-7030-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 2392.3 | 7.4 | | | |
| FM | (30°-60°) | 13465.7 | 41.7 | | | |
| FH | (60°-80°) | 10141.9 | 31.4 | | | G4/12000 |
| FVH | (80°-90°) | 340.3 | 1.1 | | | G3/500 |
| BL | (0°-30°) | 1186.3 | 3.7 | B3/2500 | | |
| BM | (30°-60°) | 2494.7 | 7.7 | B2/2500 | | |
| BH | (60°-80°) | 1986.3 | 6.2 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 278.7 | 0.9 | | | G3/500 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 80° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4485.5 | 4485.5 | 4485.5 | 4485.5 | 4485.5 | 4485.5 | 4485.5 | 4485.5 | 4485.5 | 4485.5 | 4485.5 |
| 2.5° | 4906.8 | 4878.1 | 4882.8 | 4874.9 | 4851.1 | 4809.7 | 4765.3 | 4684.2 | 4600.0 | 4555.4 | 4520.5 |
| 5° | 5316.8 | 5308.8 | 5297.7 | 5272.3 | 5211.8 | 5126.0 | 5019.6 | 4876.5 | 4722.3 | 4641.3 | 4563.3 |
| 7.5° | 5623.6 | 5618.7 | 5604.5 | 5588.6 | 5529.7 | 5426.5 | 5265.9 | 5062.4 | 4838.3 | 4727.1 | 4606.3 |
| 10° | 5648.9 | 5656.9 | 5668.1 | 5711.0 | 5718.9 | 5663.2 | 5499.6 | 5253.1 | 4959.2 | 4816.0 | 4661.9 |
| 12.5° | 5432.8 | 5450.3 | 5493.2 | 5603.0 | 5718.9 | 5787.3 | 5703.0 | 5453.4 | 5100.6 | 4927.4 | 4731.8 |
| 15° | 5146.6 | 5156.3 | 5208.7 | 5359.7 | 5568.0 | 5779.3 | 5858.8 | 5674.4 | 5283.3 | 5070.4 | 4836.8 |
| 17.5° | 5024.3 | 5029.1 | 5065.6 | 5165.8 | 5359.7 | 5661.7 | 5946.2 | 5914.4 | 5507.5 | 5248.4 | 4965.5 |
| 20° | 4962.3 | 4973.5 | 5025.9 | 5124.5 | 5246.8 | 5510.7 | 5958.9 | 6173.4 | 5774.6 | 5470.9 | 5127.6 |
| 22.5° | 5138.8 | 5134.0 | 5153.1 | 5202.4 | 5305.6 | 5464.6 | 5949.3 | 6440.5 | 6114.7 | 5757.1 | 5339.1 |
| 25° | 5550.4 | 5568.0 | 5534.5 | 5479.0 | 5512.2 | 5623.6 | 6000.2 | 6729.9 | 6540.7 | 6124.2 | 5615.6 |
| 27.5° | 6137.0 | 6119.5 | 6070.2 | 5939.9 | 5871.5 | 5919.2 | 6168.8 | 7041.3 | 7069.9 | 6607.5 | 5981.2 |
| 30° | 6721.8 | 6707.5 | 6659.9 | 6500.9 | 6361.1 | 6321.3 | 6496.1 | 7398.9 | 7700.9 | 7187.6 | 6429.4 |
| 32.5° | 7329.0 | 7313.2 | 7268.7 | 7109.7 | 6941.2 | 6849.0 | 6961.9 | 7812.2 | 8444.8 | 7880.6 | 6957.1 |
| 35° | 8077.6 | 8047.5 | 7953.7 | 7732.8 | 7567.4 | 7495.9 | 7548.4 | 8332.0 | 9303.2 | 8700.8 | 7597.7 |
| 37.5° | 8781.8 | 8827.9 | 8732.5 | 8427.3 | 8212.8 | 8187.4 | 8246.2 | 8966.2 | 10228.2 | 9617.9 | 8333.5 |
| 40° | 9489.1 | 9497.1 | 9411.3 | 9161.7 | 8940.8 | 8899.3 | 9047.2 | 9735.5 | 11320.3 | 10714.6 | 9228.5 |
| 42.5° | 10220.3 | 10236.2 | 10091.5 | 9861.0 | 9699.0 | 9706.9 | 9875.4 | 10636.7 | 12572.7 | 12006.8 | 10258.5 |
| 45° | 11086.5 | 11110.3 | 10951.4 | 10649.4 | 10501.7 | 10798.8 | 10728.9 | 11647.6 | 13946.0 | 13475.5 | 11441.0 |
| 47.5° | 11992.6 | 12029.1 | 11908.2 | 11625.4 | 11441.0 | 11849.5 | 11582.5 | 12768.1 | 15424.2 | 15050.7 | 12739.6 |
| 50° | 12486.9 | 12539.3 | 12656.9 | 12636.3 | 12596.5 | 12528.2 | 12534.6 | 13969.9 | 16948.6 | 16691.0 | 14074.8 |
| 52.5° | 12221.4 | 12219.9 | 12649.0 | 13170.3 | 13726.7 | 13768.0 | 13694.9 | 15236.6 | 18372.7 | 18294.8 | 15332.1 |
| 55° | 11007.1 | 11089.7 | 11739.8 | 12749.1 | 14268.6 | 15217.5 | 15433.8 | 16687.8 | 19771.4 | 19862.0 | 16608.4 |
| 57.5° | 8985.3 | 9053.7 | 9931.0 | 11337.8 | 13537.6 | 16079.0 | 17906.9 | 18797.1 | 21335.4 | 21758.2 | 18307.5 |
| 60° | 6094.1 | 6176.7 | 7106.6 | 8796.1 | 11569.8 | 15599.1 | 20260.9 | 22561.0 | 23207.9 | 24169.5 | 20691.7 |
| 62.5° | 3581.1 | 3655.9 | 4414.0 | 5548.8 | 8146.1 | 13369.1 | 21294.1 | 27915.8 | 26181.7 | 27807.8 | 24328.4 |
| 65° | 2465.2 | 2516.1 | 2884.9 | 3453.9 | 4681.0 | 9004.4 | 20013.0 | 31613.0 | 30757.8 | 32315.5 | 28545.3 |
| 67.5° | 1983.7 | 1977.3 | 2269.8 | 2657.6 | 3013.6 | 4642.9 | 15133.3 | 31194.9 | 34782.3 | 35432.4 | 30734.0 |
| 70° | 1634.0 | 1627.6 | 1826.3 | 2147.4 | 2408.1 | 2614.7 | 8242.9 | 26324.8 | 33962.1 | 34226.0 | 28718.5 |
| 72.5° | 1367.0 | 1373.3 | 1500.4 | 1738.9 | 1975.7 | 1969.4 | 3622.4 | 18518.9 | 26717.3 | 28542.2 | 22893.1 |
| 75° | 1154.0 | 1157.2 | 1241.4 | 1409.9 | 1603.8 | 1586.3 | 1964.6 | 10032.7 | 15530.6 | 16800.7 | 12690.4 |
| 77.5° | 982.2 | 985.5 | 1039.5 | 1133.2 | 1271.6 | 1265.2 | 1433.7 | 4334.6 | 6478.6 | 6399.2 | 4340.9 |
| 80° | 875.8 | 875.8 | 901.3 | 918.8 | 995.1 | 966.4 | 1063.3 | 2082.2 | 2738.7 | 2528.8 | 1732.6 |
| 82.5° | 686.7 | 689.9 | 845.5 | 839.2 | 783.6 | 747.0 | 747.0 | 1227.1 | 1451.2 | 1341.4 | 1014.0 |
| 85° | 386.2 | 384.7 | 545.2 | 658.1 | 689.9 | 526.1 | 521.3 | 686.7 | 790.0 | 696.2 | 491.1 |
| 87.5° | 165.3 | 168.5 | 252.7 | 292.5 | 391.0 | 327.4 | 322.7 | 354.4 | 402.2 | 348.1 | 227.3 |
| 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° | 4485.5 | 4485.5 | 4485.5 | 4485.5 | 4485.5 | 4485.5 | 4485.5 | 4485.5 | 4485.5 | 4485.5 | 4485.5 |
| 2.5° | 4487.1 | 4445.8 | 4355.2 | 4242.3 | 4140.6 | 4073.8 | 4013.4 | 3926.0 | 3930.7 | 3870.4 | 3825.8 |
| 5° | 4483.9 | 4398.0 | 4188.2 | 3938.7 | 3698.7 | 3525.5 | 3395.1 | 3277.4 | 3248.9 | 3193.2 | 3159.9 |
| 7.5° | 4487.1 | 4347.2 | 3994.3 | 3595.4 | 3298.1 | 3078.8 | 2967.6 | 2905.5 | 2891.2 | 2872.2 | 2873.7 |
| 10° | 4498.2 | 4301.1 | 3781.4 | 3274.3 | 2962.8 | 2818.2 | 2791.1 | 2810.1 | 2832.4 | 2838.8 | 2840.4 |
| 12.5° | 4523.7 | 4259.8 | 3547.6 | 2988.2 | 2753.0 | 2708.4 | 2754.5 | 2819.8 | 2862.6 | 2883.3 | 2881.7 |
| 15° | 4580.8 | 4228.0 | 3323.5 | 2764.0 | 2637.0 | 2660.8 | 2746.6 | 2838.8 | 2900.9 | 2929.3 | 2931.0 |
| 17.5° | 4642.9 | 4181.9 | 3093.1 | 2592.4 | 2551.1 | 2611.6 | 2718.1 | 2826.1 | 2902.4 | 2934.1 | 2940.5 |
| 20° | 4724.0 | 4124.6 | 2851.5 | 2463.7 | 2470.1 | 2538.4 | 2638.5 | 2746.6 | 2830.8 | 2857.9 | 2870.6 |
| 22.5° | 4830.4 | 4062.7 | 2640.1 | 2358.8 | 2377.8 | 2430.3 | 2508.1 | 2602.0 | 2675.1 | 2687.8 | 2698.9 |
| 25° | 4973.5 | 3995.9 | 2471.7 | 2263.5 | 2271.4 | 2301.5 | 2354.0 | 2409.6 | 2460.5 | 2446.2 | 2457.3 |
| 27.5° | 5165.8 | 3938.7 | 2346.1 | 2176.0 | 2161.7 | 2168.0 | 2195.0 | 2212.5 | 2239.6 | 2199.8 | 2204.7 |
| 30° | 5391.5 | 3876.7 | 2249.1 | 2099.6 | 2060.0 | 2048.8 | 2055.1 | 2064.7 | 2085.4 | 2031.3 | 2023.4 |
| 32.5° | 5653.7 | 3802.0 | 2158.5 | 2032.9 | 1977.3 | 1955.0 | 1958.3 | 1983.7 | 2063.2 | 2029.7 | 2012.2 |
| 35° | 5958.9 | 3717.8 | 2063.2 | 1959.8 | 1921.7 | 1889.8 | 1886.7 | 1966.1 | 2203.0 | 2182.4 | 2166.4 |
| 37.5° | 6316.5 | 3633.5 | 1967.8 | 1877.2 | 1880.4 | 1845.4 | 1834.3 | 1924.8 | 2230.0 | 2148.9 | 2137.8 |
| 40° | 6771.2 | 3589.0 | 1886.7 | 1789.7 | 1829.4 | 1824.7 | 1802.4 | 1848.5 | 2052.0 | 1904.2 | 1885.2 |
| 42.5° | 7333.8 | 3595.4 | 1826.3 | 1695.9 | 1769.1 | 1819.9 | 1785.0 | 1786.6 | 1859.7 | 1748.3 | 1730.8 |
| 45° | 8028.4 | 3670.1 | 1783.3 | 1621.3 | 1700.7 | 1815.2 | 1778.6 | 1753.2 | 1759.5 | 1700.7 | 1691.3 |
| 47.5° | 8839.1 | 3824.3 | 1753.2 | 1559.2 | 1635.6 | 1797.7 | 1777.0 | 1743.7 | 1729.3 | 1697.6 | 1689.5 |
| 50° | 9740.3 | 4048.4 | 1730.8 | 1500.4 | 1576.7 | 1769.1 | 1778.6 | 1734.2 | 1718.2 | 1705.5 | 1700.7 |
| 52.5° | 10625.6 | 4304.3 | 1697.6 | 1449.6 | 1530.6 | 1734.2 | 1783.3 | 1724.5 | 1707.0 | 1697.6 | 1692.8 |
| 55° | 11612.6 | 4623.8 | 1646.6 | 1406.7 | 1492.5 | 1689.5 | 1783.3 | 1710.2 | 1691.3 | 1692.8 | 1691.3 |
| 57.5° | 12946.2 | 5140.3 | 1586.3 | 1370.1 | 1446.4 | 1635.6 | 1753.2 | 1694.4 | 1670.6 | 1672.1 | 1673.8 |
| 60° | 15030.0 | 6051.1 | 1513.1 | 1333.6 | 1389.2 | 1572.0 | 1711.9 | 1659.4 | 1635.6 | 1641.9 | 1643.5 |
| 62.5° | 18094.5 | 7387.9 | 1417.8 | 1279.5 | 1328.8 | 1503.6 | 1654.6 | 1614.9 | 1591.1 | 1606.9 | 1606.9 |
| 65° | 21279.8 | 8567.2 | 1300.1 | 1211.1 | 1265.2 | 1428.9 | 1583.0 | 1559.2 | 1535.4 | 1572.0 | 1570.4 |
| 67.5° | 22136.5 | 8303.3 | 1182.5 | 1136.6 | 1201.7 | 1346.3 | 1497.3 | 1484.7 | 1471.8 | 1535.4 | 1532.3 |
| 70° | 19664.9 | 6666.2 | 1074.4 | 1060.2 | 1131.7 | 1257.2 | 1405.1 | 1405.1 | 1397.1 | 1444.9 | 1433.7 |
| 72.5° | 14982.2 | 4727.1 | 971.2 | 979.1 | 1052.2 | 1160.4 | 1305.0 | 1316.0 | 1303.4 | 1327.2 | 1317.6 |
| 75° | 8020.5 | 2705.3 | 867.8 | 890.1 | 953.8 | 1061.8 | 1193.6 | 1204.8 | 1196.8 | 1195.3 | 1200.0 |
| 77.5° | 2665.5 | 1322.5 | 759.8 | 794.8 | 850.4 | 960.1 | 1077.7 | 1095.1 | 1076.1 | 1072.9 | 1071.3 |
| 80° | 1187.3 | 831.3 | 640.6 | 686.7 | 736.0 | 844.0 | 955.3 | 969.5 | 948.9 | 977.6 | 940.9 |
| 82.5° | 762.9 | 546.8 | 513.4 | 564.3 | 612.0 | 728.0 | 832.9 | 836.1 | 817.0 | 948.9 | 809.1 |
| 85° | 370.4 | 338.6 | 386.2 | 432.3 | 473.6 | 572.2 | 689.9 | 691.4 | 643.7 | 586.5 | 565.9 |
| 87.5° | 184.4 | 197.1 | 257.6 | 298.9 | 319.5 | 392.6 | 502.3 | 492.8 | 472.1 | 429.2 | 395.7 |
| 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)