

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: P192303

Luminaire Tested: **GAN-AF-05-LED-U-T3R-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192303
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-05-LED-U-T3R-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33368 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 320
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

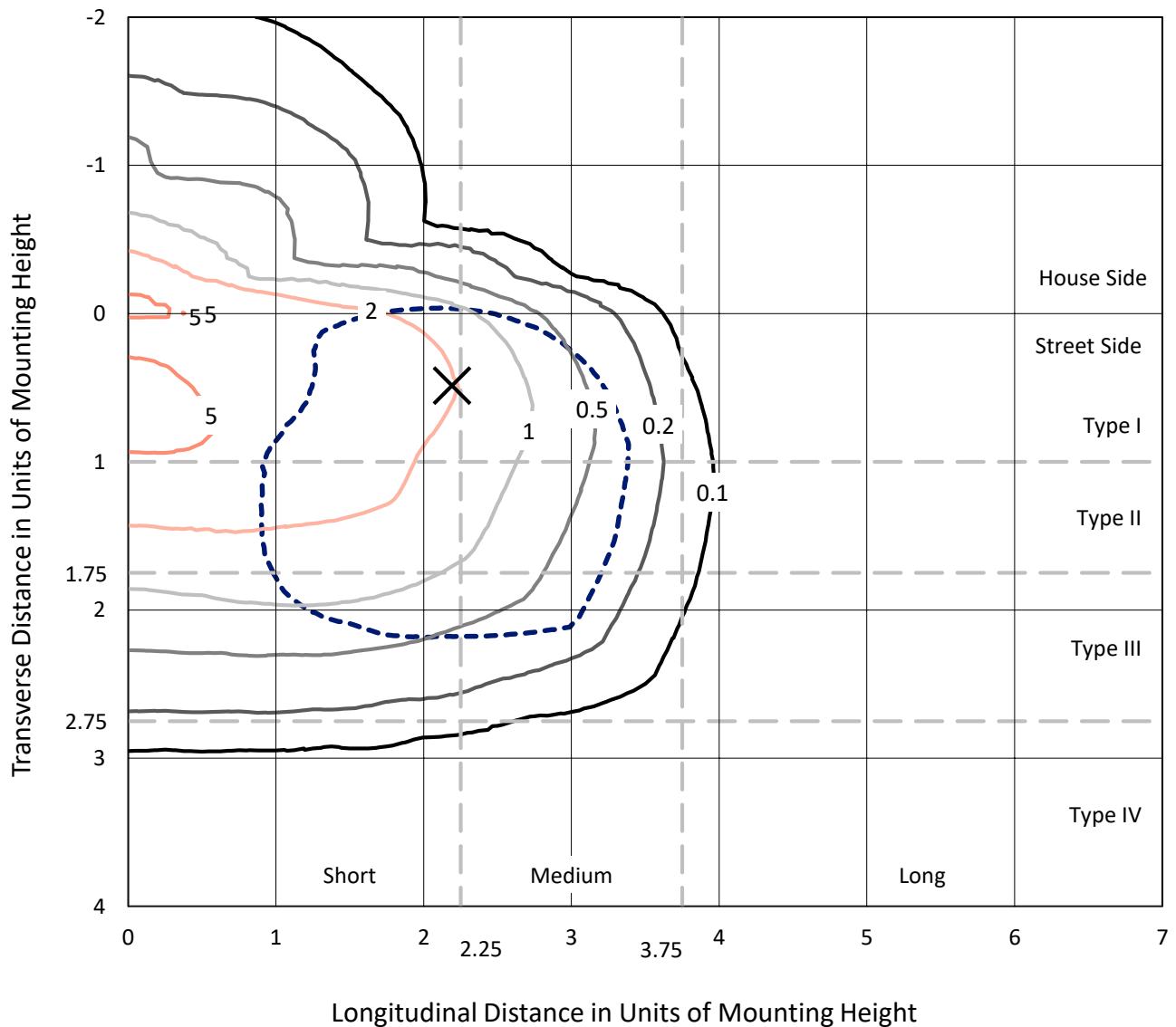


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

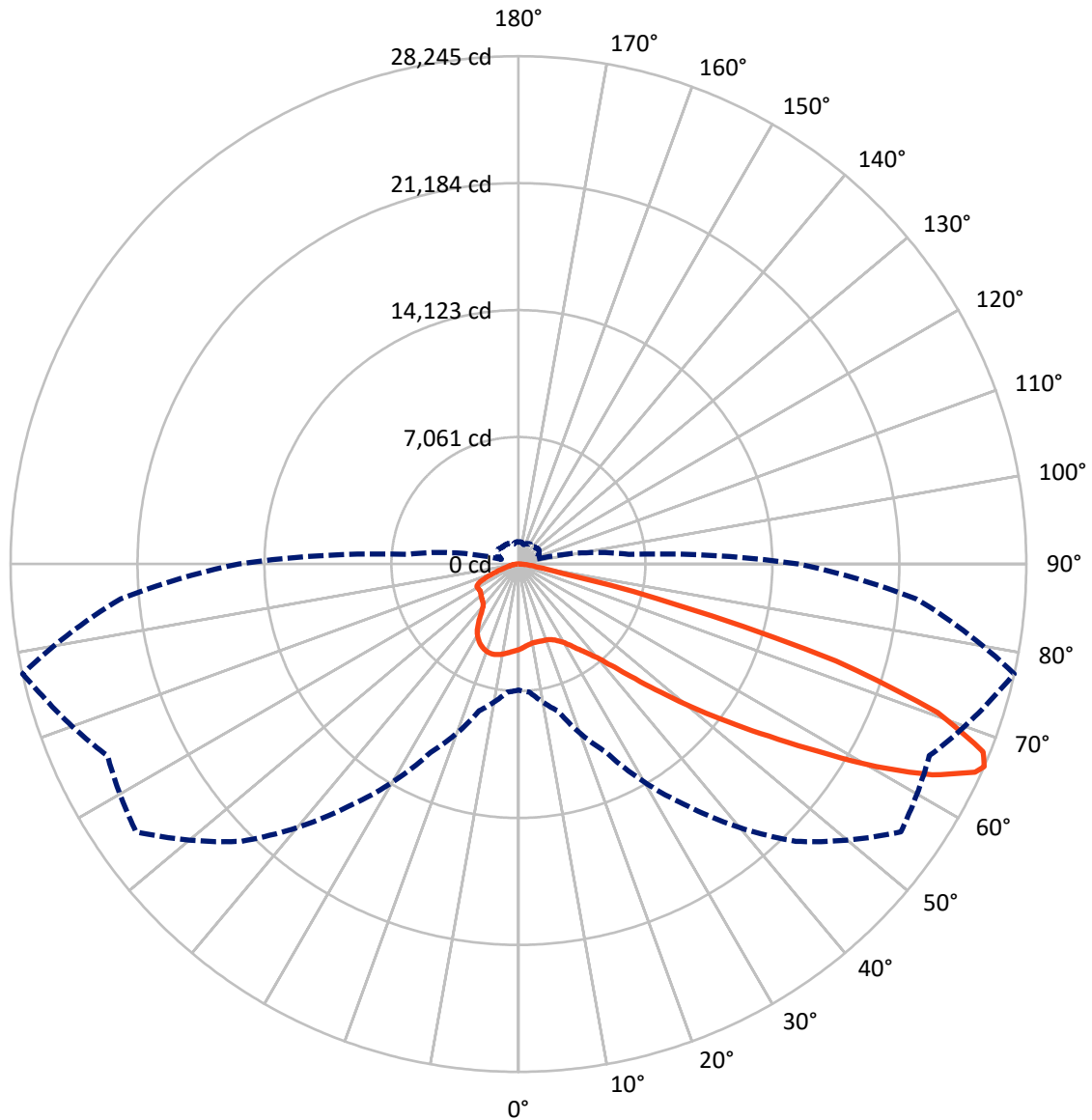


Based on 30 foot mounting height. Maximum calculated value = 6.5 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5700.7 | 0.0 | 5700.7 |
| | % Fixture | 17.1 | 0.0 | 17.1 |
| Street Side | Lumens | 27667.3 | 0.0 | 27667.3 |
| | % Fixture | 82.9 | 0.0 | 82.9 |
| Total | Lumens | 33368.0 | 0.0 | 33368.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 424.8 | 1.3 |
| 10°-20° | 1198.5 | 3.6 |
| 20°-30° | 2045.4 | 6.1 |
| 30°-40° | 3274.4 | 9.8 |
| 40°-50° | 5058.6 | 15.2 |
| 50°-60° | 7174.9 | 21.5 |
| 60°-70° | 9598.0 | 28.8 |
| 70°-80° | 4168.2 | 12.5 |
| 80°-90° | 425.0 | 1.3 |
| 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° | 33368.0 | 100.0 |
| 0°-180° | 33368.0 | 100.0 |

Coefficient of Utilization



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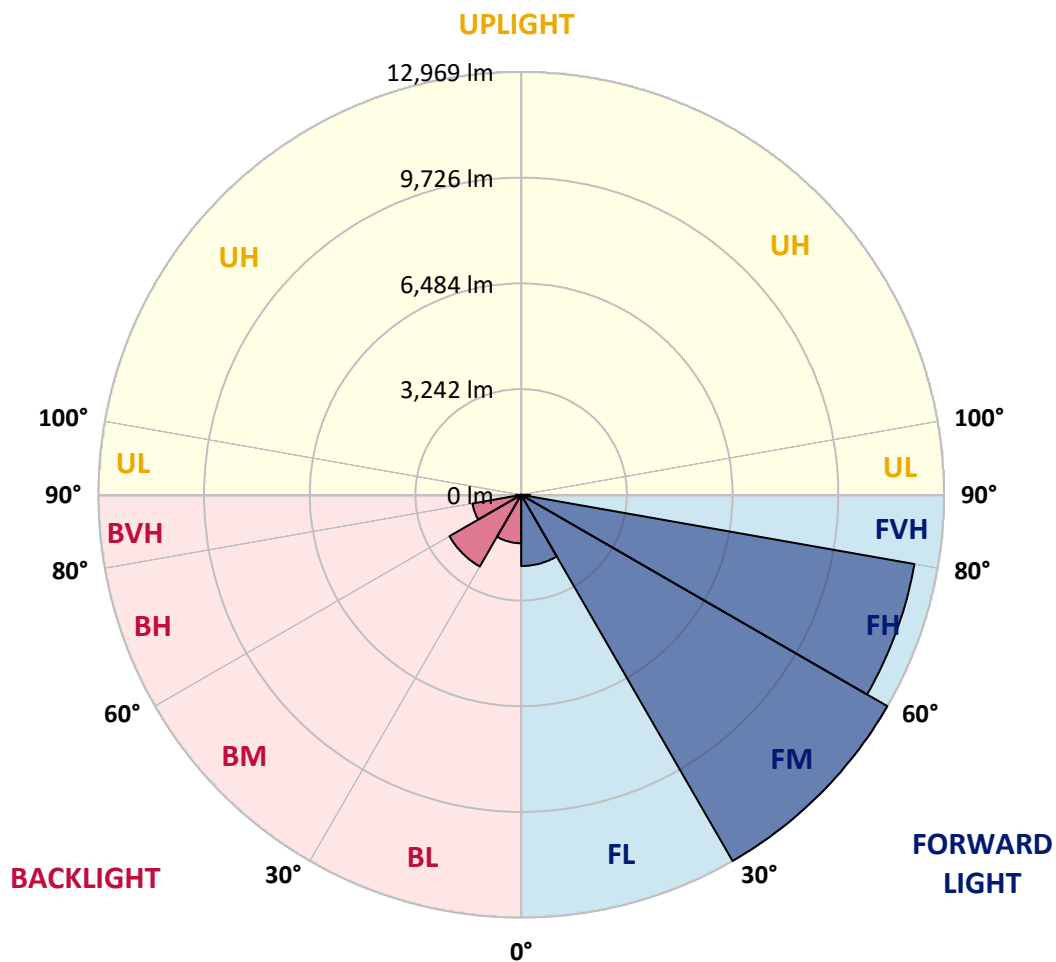
CATALOG NUMBER: GAN-AF-05-LED-U-T3R-7050-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2184.1 | 6.5 | | | |
| FM (30°-60°) | 12968.6 | 38.9 | | | |
| FH (60°-80°) | 12248.1 | 36.7 | | | G5 |
| FVH (80°-90°) | 266.6 | 0.8 | | | G3/500 |
| BL (0°-30°) | 1484.7 | 4.4 | B3/2500 | | |
| BM (30°-60°) | 2539.3 | 7.6 | B3/5000 | | |
| BH (60°-80°) | 1518.2 | 4.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 158.5 | 0.5 | | | 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 Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77.5° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4755.1 | 4755.1 | 4755.1 | 4755.1 | 4755.1 | 4755.1 | 4755.1 | 4755.1 | 4755.1 | 4755.1 | 4755.1 |
| 2.5° | 4206.4 | 4234.8 | 4258.5 | 4280.5 | 4324.7 | 4397.2 | 4480.8 | 4548.6 | 4646.3 | 4665.2 | 4717.3 |
| 5° | 3820.2 | 3820.2 | 3839.1 | 3872.2 | 3932.1 | 4040.9 | 4154.4 | 4305.8 | 4518.6 | 4569.1 | 4707.8 |
| 7.5° | 3632.5 | 3634.1 | 3645.2 | 3673.5 | 3725.6 | 3824.9 | 3949.4 | 4127.6 | 4416.1 | 4499.7 | 4736.2 |
| 10° | 3701.9 | 3686.1 | 3662.5 | 3648.3 | 3656.2 | 3714.5 | 3832.8 | 4031.4 | 4353.1 | 4460.3 | 4799.2 |
| 12.5° | 4089.8 | 4059.8 | 3977.8 | 3869.0 | 3765.0 | 3722.4 | 3791.8 | 3985.7 | 4326.3 | 4450.8 | 4882.8 |
| 15° | 4723.6 | 4711.0 | 4558.0 | 4332.6 | 4080.3 | 3869.0 | 3821.7 | 3968.4 | 4329.4 | 4461.8 | 4982.1 |
| 17.5° | 5518.2 | 5500.8 | 5299.0 | 4971.1 | 4559.6 | 4148.1 | 3927.4 | 3982.6 | 4340.4 | 4480.8 | 5078.3 |
| 20° | 6320.7 | 6267.1 | 6049.5 | 5658.5 | 5130.3 | 4528.1 | 4102.4 | 4018.8 | 4354.6 | 4501.3 | 5179.2 |
| 22.5° | 6919.8 | 6875.7 | 6680.2 | 6300.2 | 5691.6 | 4967.9 | 4337.3 | 4081.9 | 4400.4 | 4561.2 | 5303.8 |
| 25° | 7446.4 | 7449.5 | 7255.6 | 6888.3 | 6259.2 | 5434.6 | 4640.0 | 4250.6 | 4517.0 | 4684.2 | 5474.0 |
| 27.5° | 8097.5 | 8059.7 | 7878.4 | 7514.2 | 6820.5 | 5906.0 | 5005.8 | 4482.3 | 4690.5 | 4859.2 | 5697.9 |
| 30° | 8876.4 | 8849.6 | 8639.9 | 8226.8 | 7443.2 | 6412.1 | 5423.6 | 4751.9 | 4914.3 | 5089.3 | 5991.2 |
| 32.5° | 9792.4 | 9779.8 | 9562.2 | 9030.9 | 8162.2 | 7008.1 | 5913.9 | 5108.3 | 5248.6 | 5429.9 | 6412.1 |
| 35° | 10867.7 | 10869.2 | 10612.3 | 9973.7 | 8948.9 | 7701.8 | 6470.5 | 5567.1 | 5655.4 | 5844.5 | 6913.5 |
| 37.5° | 11529.9 | 11610.3 | 11514.1 | 10862.9 | 9839.7 | 8477.5 | 7192.6 | 6175.6 | 6118.9 | 6309.7 | 7451.1 |
| 40° | 11671.7 | 11769.5 | 12073.8 | 11742.7 | 10836.1 | 9332.0 | 7832.7 | 6760.6 | 6689.6 | 6923.0 | 8143.3 |
| 42.5° | 11473.1 | 11608.7 | 12251.9 | 12485.3 | 11894.1 | 10385.2 | 8693.5 | 7629.3 | 7539.4 | 7853.2 | 9004.1 |
| 45° | 11354.8 | 11455.8 | 12199.9 | 12871.6 | 12811.6 | 11575.6 | 9789.3 | 8720.3 | 8687.2 | 9098.7 | 9997.4 |
| 47.5° | 11149.9 | 11241.3 | 11957.1 | 12961.4 | 13350.9 | 12666.6 | 11105.7 | 10054.1 | 10118.8 | 10658.0 | 11118.4 |
| 50° | 11260.3 | 11298.1 | 11685.9 | 12732.8 | 13506.9 | 13465.9 | 12576.7 | 11599.2 | 11820.0 | 12493.2 | 12387.5 |
| 52.5° | 11244.5 | 11342.2 | 11654.4 | 12357.6 | 13527.4 | 13959.4 | 14025.6 | 13322.5 | 13787.6 | 14560.1 | 13795.5 |
| 55° | 9090.8 | 9270.6 | 11283.9 | 12263.0 | 13600.0 | 14443.5 | 15315.3 | 15138.7 | 16005.9 | 16906.1 | 15384.7 |
| 57.5° | 8680.9 | 8794.4 | 9910.7 | 12461.6 | 13984.7 | 15367.4 | 16750.1 | 17137.9 | 18588.4 | 19633.7 | 17320.8 |
| 60° | 8600.5 | 8740.8 | 9896.5 | 12704.4 | 14765.1 | 16873.0 | 18876.9 | 19558.0 | 21730.6 | 22875.2 | 19565.9 |
| 62.5° | 8349.8 | 8501.2 | 9803.4 | 12672.9 | 15873.5 | 18955.8 | 21599.8 | 22131.1 | 24710.4 | 25823.5 | 21443.7 |
| 65° | 7555.2 | 7697.1 | 9045.1 | 12163.7 | 16620.8 | 21178.8 | 24822.4 | 24489.7 | 27062.8 | 27899.9 | 22380.2 |
| 66° | 7011.2 | 7150.0 | 8447.6 | 11564.5 | 16447.3 | 21809.4 | 25963.8 | 25219.7 | 27589.3 | 28245.2 | 22197.3 |
| 67.5° | 6016.4 | 6125.2 | 7287.2 | 10222.8 | 15525.0 | 21986.0 | 26924.0 | 25768.3 | 27644.5 | 27876.3 | 21152.0 |
| 70° | 3801.2 | 3832.8 | 4736.2 | 7057.0 | 11752.2 | 19067.7 | 25462.5 | 24406.1 | 25364.7 | 24737.2 | 17732.3 |
| 72.5° | 1649.1 | 1638.1 | 2273.5 | 3590.0 | 6653.4 | 12794.3 | 20597.0 | 20138.2 | 19897.0 | 18465.4 | 12412.8 |
| 75° | 917.6 | 930.2 | 1180.9 | 1666.5 | 2703.9 | 6284.4 | 13473.8 | 12893.6 | 10886.6 | 9289.5 | 5628.5 |
| 77.5° | 736.3 | 753.6 | 979.1 | 1182.5 | 1214.0 | 2191.5 | 6304.9 | 5130.3 | 3088.6 | 2478.5 | 1564.0 |
| 80° | 581.8 | 613.3 | 854.5 | 920.7 | 818.3 | 903.4 | 2037.0 | 1628.7 | 1221.9 | 1121.0 | 810.4 |
| 82.5° | 460.4 | 482.4 | 733.1 | 696.9 | 572.3 | 608.6 | 975.9 | 950.7 | 794.6 | 723.7 | 468.3 |
| 85° | 331.1 | 372.1 | 602.3 | 525.0 | 375.2 | 409.9 | 648.0 | 621.2 | 455.6 | 372.1 | 206.5 |
| 87.5° | 135.6 | 176.6 | 425.7 | 348.4 | 209.7 | 190.8 | 323.2 | 304.3 | 216.0 | 157.7 | 102.5 |
| 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° | 4755.1 | 4755.1 | 4755.1 | 4755.1 | 4755.1 | 4755.1 | 4755.1 | 4755.1 | 4755.1 | 4755.1 | 4755.1 |
| 2.5° | 4750.4 | 4788.2 | 4837.1 | 4867.0 | 4882.8 | 4893.8 | 4911.2 | 4909.6 | 4914.3 | 4915.9 | 4922.2 |
| 5° | 4781.9 | 4845.0 | 4915.9 | 4934.8 | 4934.8 | 4917.5 | 4900.1 | 4871.8 | 4860.7 | 4857.6 | 4860.7 |
| 7.5° | 4863.9 | 4933.3 | 4994.7 | 4972.7 | 4925.4 | 4856.0 | 4766.1 | 4687.3 | 4644.7 | 4630.5 | 4627.4 |
| 10° | 4967.9 | 5051.5 | 5076.7 | 4993.2 | 4854.4 | 4687.3 | 4509.1 | 4379.9 | 4305.8 | 4285.3 | 4279.0 |
| 12.5° | 5094.1 | 5172.9 | 5138.2 | 4961.6 | 4704.6 | 4435.0 | 4189.1 | 3982.6 | 3828.0 | 3779.2 | 3776.0 |
| 15° | 5232.8 | 5294.3 | 5172.9 | 4863.9 | 4480.8 | 4083.5 | 3645.2 | 3288.8 | 3096.5 | 3035.0 | 3030.3 |
| 17.5° | 5362.1 | 5393.6 | 5152.4 | 4693.6 | 4151.3 | 3508.0 | 2926.2 | 2651.9 | 2585.7 | 2601.4 | 2604.6 |
| 20° | 5472.5 | 5472.5 | 5083.0 | 4449.2 | 3632.5 | 2749.6 | 2382.3 | 2377.5 | 2424.8 | 2472.1 | 2481.6 |
| 22.5° | 5593.9 | 5521.3 | 4961.6 | 4104.0 | 2897.8 | 2249.8 | 2196.2 | 2240.4 | 2294.0 | 2346.0 | 2353.9 |
| 25° | 5743.6 | 5560.8 | 4792.9 | 3580.5 | 2278.2 | 2043.3 | 2063.8 | 2100.1 | 2126.9 | 2160.0 | 2164.7 |
| 27.5° | 5910.8 | 5611.2 | 4570.6 | 2860.0 | 1977.1 | 1914.0 | 1929.8 | 1942.4 | 1939.2 | 1951.9 | 1955.0 |
| 30° | 6111.0 | 5669.5 | 4266.3 | 2235.7 | 1852.5 | 1803.7 | 1775.3 | 1764.2 | 1764.2 | 1784.7 | 1792.6 |
| 32.5° | 6379.0 | 5756.3 | 3829.6 | 1915.6 | 1792.6 | 1724.8 | 1633.4 | 1592.4 | 1608.2 | 1677.5 | 1693.3 |
| 35° | 6673.9 | 5849.3 | 3238.4 | 1806.8 | 1780.0 | 1688.6 | 1546.7 | 1471.0 | 1472.6 | 1537.2 | 1557.7 |
| 37.5° | 6995.5 | 5967.5 | 2590.4 | 1786.3 | 1808.4 | 1690.1 | 1500.9 | 1396.9 | 1354.3 | 1354.3 | 1362.2 |
| 40° | 7407.0 | 6088.9 | 2096.9 | 1800.5 | 1868.3 | 1709.1 | 1477.3 | 1338.6 | 1218.7 | 1221.9 | 1228.2 |
| 42.5° | 7943.0 | 6193.0 | 1832.0 | 1830.5 | 1940.8 | 1734.3 | 1475.7 | 1261.3 | 1157.2 | 1228.2 | 1292.8 |
| 45° | 8539.0 | 6245.0 | 1715.4 | 1857.3 | 1999.2 | 1750.1 | 1450.5 | 1248.7 | 1165.1 | 1376.4 | 1499.4 |
| 47.5° | 9224.8 | 6215.1 | 1650.7 | 1866.7 | 2013.3 | 1750.1 | 1422.1 | 1278.6 | 1220.3 | 1594.0 | 1737.4 |
| 50° | 9976.9 | 6128.3 | 1587.7 | 1847.8 | 2008.6 | 1746.9 | 1448.9 | 1308.6 | 1240.8 | 1631.8 | 1731.1 |
| 52.5° | 10861.4 | 6055.8 | 1521.4 | 1806.8 | 1975.5 | 1729.6 | 1480.5 | 1296.0 | 1176.2 | 1483.6 | 1553.0 |
| 55° | 11870.4 | 6076.3 | 1447.3 | 1748.5 | 1923.5 | 1696.4 | 1469.4 | 1245.5 | 1108.4 | 1307.0 | 1349.6 |
| 57.5° | 13160.1 | 6320.7 | 1359.1 | 1674.4 | 1852.5 | 1641.3 | 1430.0 | 1221.9 | 1087.9 | 1185.6 | 1210.8 |
| 60° | 14599.5 | 6746.4 | 1248.7 | 1600.3 | 1764.2 | 1553.0 | 1400.0 | 1232.9 | 1097.3 | 1176.2 | 1188.8 |
| 62.5° | 15655.9 | 6993.9 | 1154.1 | 1491.5 | 1644.4 | 1455.2 | 1362.2 | 1247.1 | 1122.6 | 1209.3 | 1206.1 |
| 65° | 15942.8 | 6587.1 | 1035.8 | 1332.2 | 1482.0 | 1352.7 | 1314.9 | 1262.9 | 1133.6 | 1236.1 | 1221.9 |
| 66° | 15540.8 | 6148.8 | 983.8 | 1258.1 | 1400.0 | 1302.3 | 1291.3 | 1261.3 | 1128.9 | 1239.2 | 1215.6 |
| 67.5° | 14564.9 | 5250.2 | 893.9 | 1149.4 | 1269.2 | 1226.6 | 1253.4 | 1247.1 | 1116.2 | 1236.1 | 1203.0 |
| 70° | 11878.3 | 3582.1 | 764.7 | 957.0 | 1056.3 | 1080.0 | 1180.9 | 1196.7 | 1075.3 | 1180.9 | 1108.4 |
| 72.5° | 8299.3 | 2182.0 | 676.4 | 742.6 | 854.5 | 920.7 | 1081.6 | 1127.3 | 1020.1 | 1031.1 | 961.7 |
| 75° | 4010.9 | 1158.8 | 613.3 | 575.5 | 663.8 | 769.4 | 961.7 | 1032.7 | 933.4 | 862.4 | 837.2 |
| 77.5° | 1250.3 | 707.9 | 520.3 | 463.5 | 520.3 | 621.2 | 804.1 | 905.0 | 830.9 | 722.1 | 712.6 |
| 80° | 671.6 | 520.3 | 400.5 | 372.1 | 411.5 | 487.2 | 632.2 | 755.2 | 714.2 | 648.0 | 578.6 |
| 82.5° | 443.0 | 337.4 | 296.4 | 288.5 | 313.7 | 372.1 | 469.8 | 625.9 | 625.9 | 555.0 | 403.6 |
| 85° | 228.6 | 206.5 | 203.4 | 203.4 | 219.2 | 247.5 | 320.1 | 482.4 | 514.0 | 293.3 | 242.8 |
| 87.5° | 113.5 | 118.2 | 110.4 | 115.1 | 123.0 | 121.4 | 152.9 | 242.8 | 290.1 | 178.2 | 148.2 |
| 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)