

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: P383351

Luminaire Tested: **GAN-SA6C-735-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383351
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6C-735-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39644.8 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

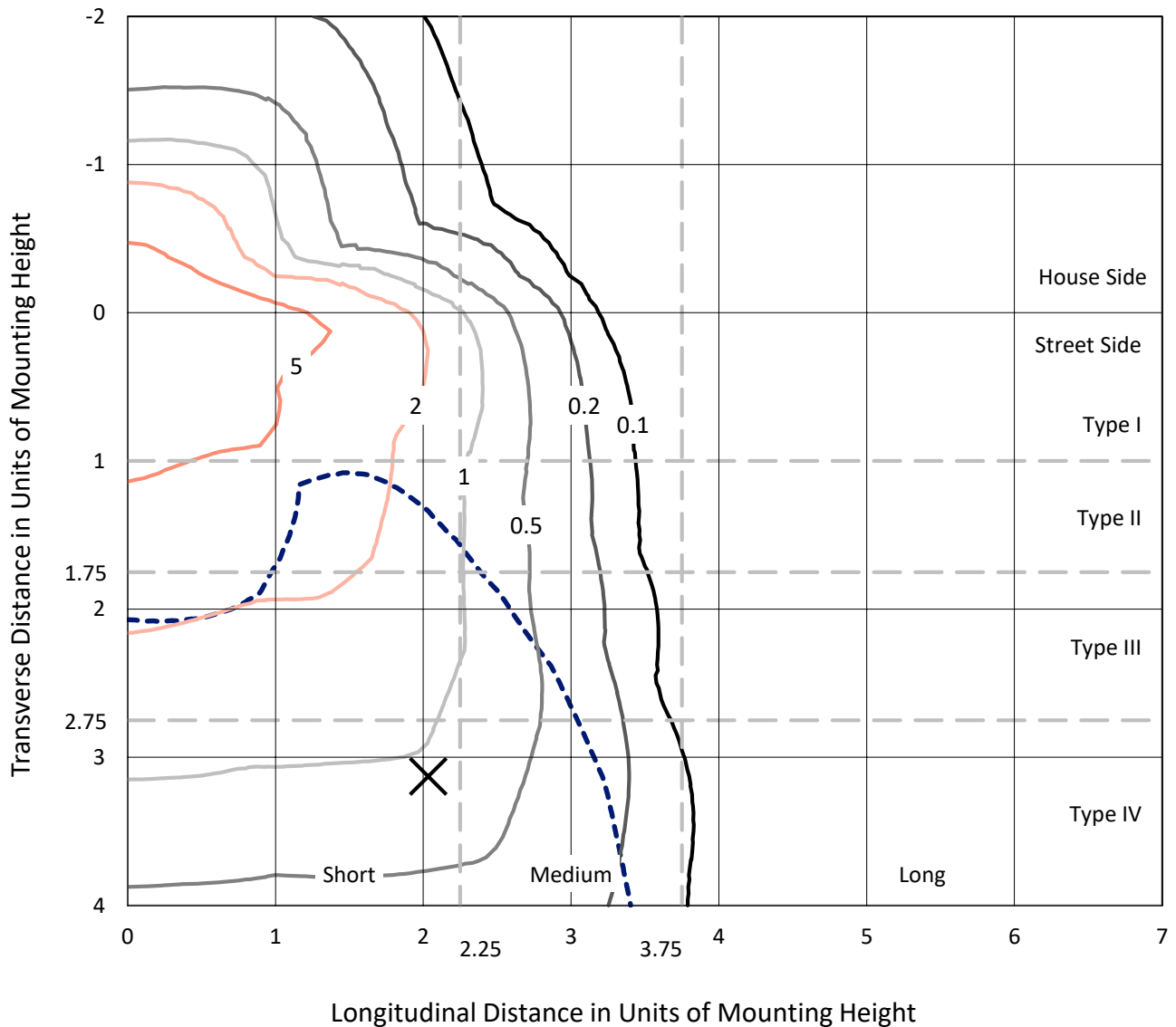
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

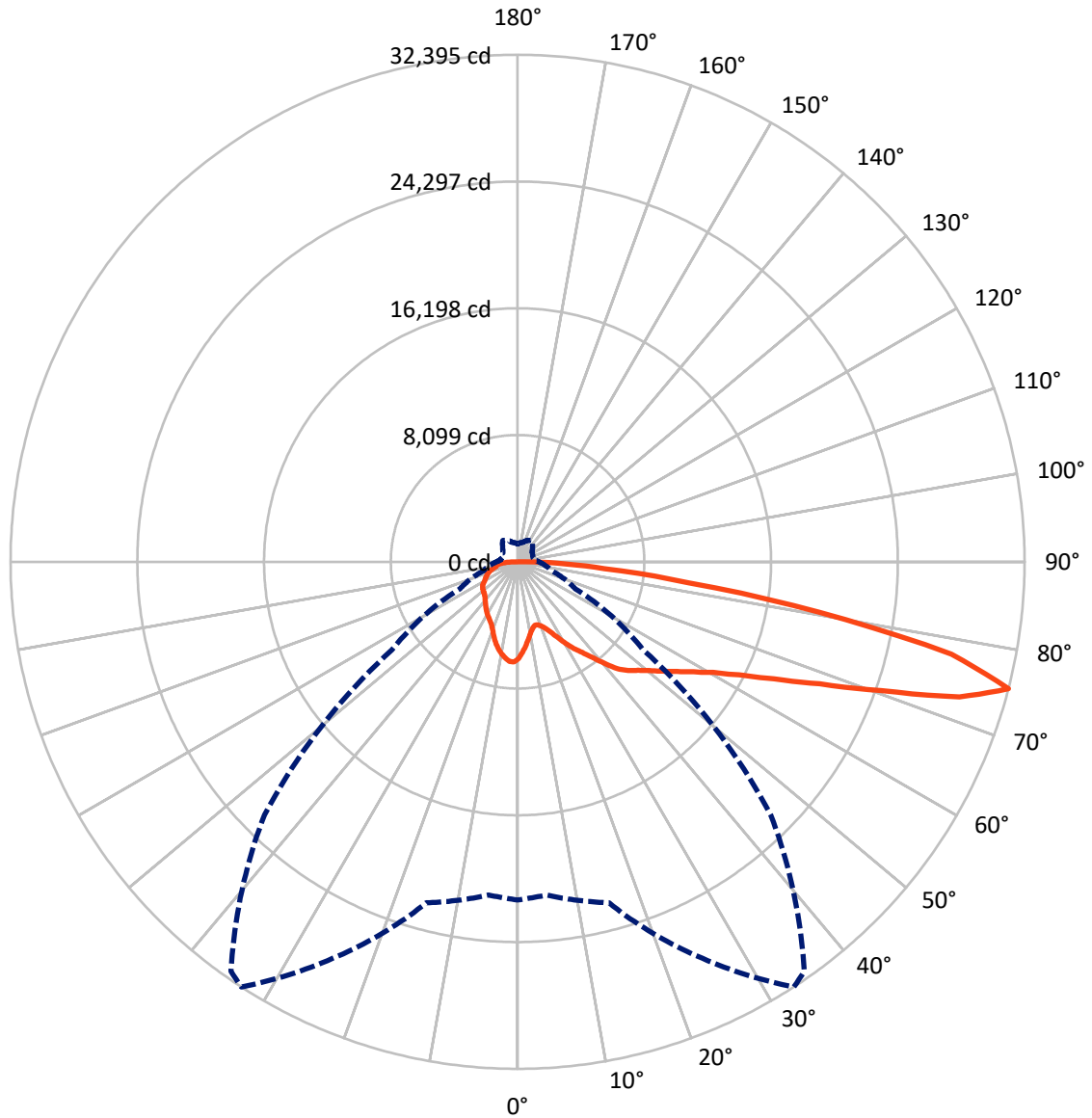
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8512.8 | 0.0 | 8512.8 |
| | % Fixture | 21.5 | 0.0 | 21.5 |
| Street Side | Lumens | 31132.0 | 0.0 | 31132.0 |
| | % Fixture | 78.5 | 0.0 | 78.5 |
| Total | Lumens | 39644.8 | 0.0 | 39644.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 560.4 | 1.4 |
| 10°-20° | 1517.8 | 3.8 |
| 20°-30° | 2478.9 | 6.3 |
| 30°-40° | 3691.6 | 9.3 |
| 40°-50° | 5294.7 | 13.4 |
| 50°-60° | 7268.9 | 18.3 |
| 60°-70° | 9100.3 | 23.0 |
| 70°-80° | 8232.6 | 20.8 |
| 80°-90° | 1499.6 | 3.8 |
| 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° | 39644.8 | 100.0 |
| 0°-180° | 39644.8 | 100.0 |

Coefficient of Utilization

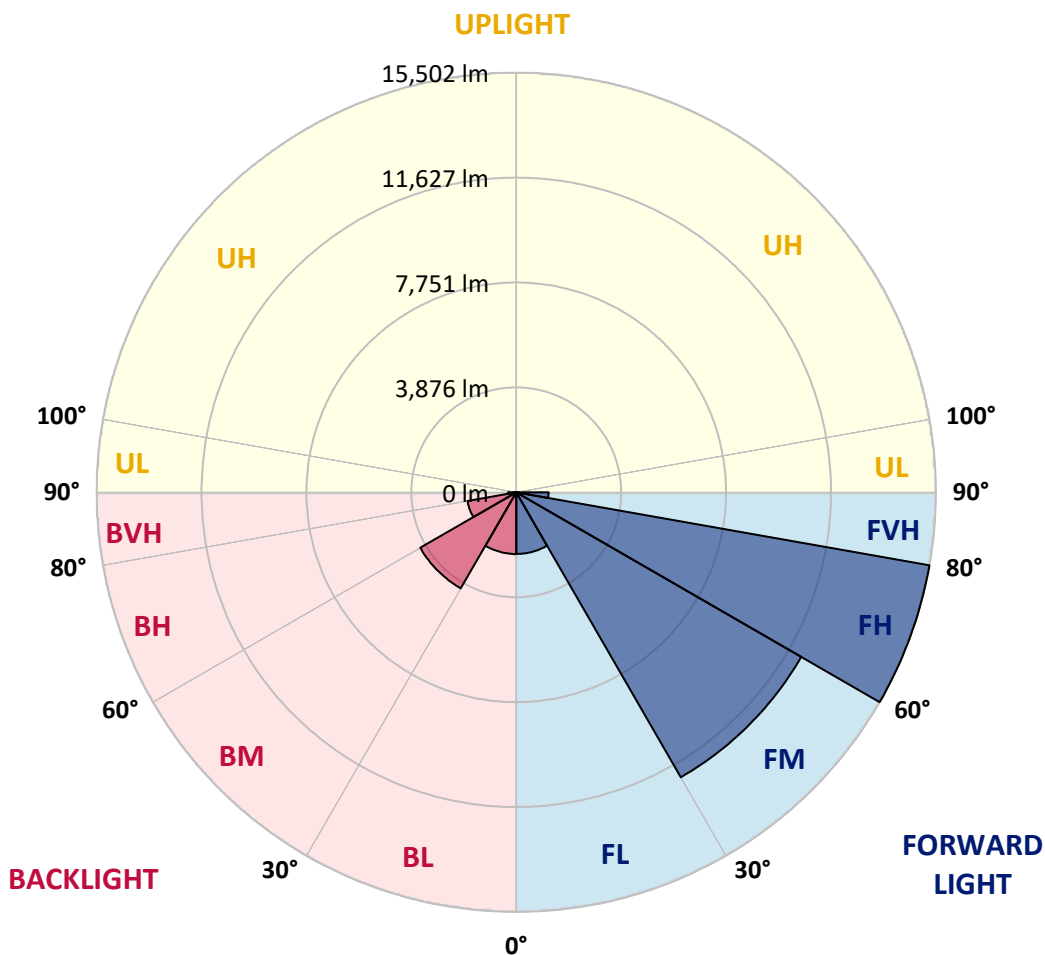


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2277.0 | 5.7 | | | |
| FM (30°-60°) | 12158.2 | 30.7 | | | |
| FH (60°-80°) | 15502.5 | 39.1 | | | G5 |
| FVH (80°-90°) | 1194.3 | 3.0 | | | G5 |
| BL (0°-30°) | 2280.1 | 5.8 | B3/2500 | | |
| BM (30°-60°) | 4097.0 | 10.3 | B3/5000 | | |
| BH (60°-80°) | 1830.4 | 4.6 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 305.3 | 0.8 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 33° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6196.7 | 6196.7 | 6196.7 | 6196.7 | 6196.7 | 6196.7 | 6196.7 | 6196.7 | 6196.7 | 6196.7 | 6196.7 |
| 2.5° | 5754.4 | 5732.5 | 5773.5 | 5779.0 | 5814.6 | 5828.3 | 5877.6 | 5954.4 | 6017.3 | 6089.9 | 6155.7 |
| 5° | 5232.6 | 5217.6 | 5275.1 | 5316.2 | 5394.2 | 5427.1 | 5543.5 | 5706.5 | 5851.6 | 6015.9 | 6165.2 |
| 7.5° | 4736.9 | 4728.6 | 4793.0 | 4886.2 | 4976.5 | 5021.7 | 5223.0 | 5460.0 | 5702.4 | 5968.1 | 6196.7 |
| 10° | 4319.2 | 4316.5 | 4378.1 | 4469.8 | 4602.7 | 4653.4 | 4913.5 | 5225.8 | 5565.4 | 5931.1 | 6250.1 |
| 12.5° | 4085.0 | 4094.6 | 4123.4 | 4200.1 | 4323.3 | 4374.0 | 4663.0 | 5030.0 | 5450.4 | 5918.7 | 6328.2 |
| 15° | 4142.6 | 4157.6 | 4108.3 | 4105.6 | 4193.2 | 4233.0 | 4504.1 | 4890.3 | 5368.2 | 5939.3 | 6441.8 |
| 17.5° | 4387.7 | 4390.4 | 4260.3 | 4178.2 | 4231.6 | 4252.1 | 4454.8 | 4810.8 | 5320.3 | 5985.8 | 6584.3 |
| 20° | 4732.8 | 4725.9 | 4495.8 | 4358.9 | 4387.7 | 4393.2 | 4524.6 | 4812.2 | 5316.2 | 6066.6 | 6769.1 |
| 22.5° | 5190.2 | 5139.5 | 4830.0 | 4643.8 | 4636.9 | 4628.7 | 4704.0 | 4913.5 | 5376.4 | 6198.1 | 6989.6 |
| 25° | 5787.2 | 5739.4 | 5313.5 | 5058.7 | 5003.9 | 4983.4 | 4994.3 | 5129.9 | 5495.6 | 6339.1 | 7236.1 |
| 27.5° | 6451.4 | 6367.9 | 5957.1 | 5596.9 | 5483.2 | 5454.5 | 5388.7 | 5435.3 | 5625.6 | 6474.7 | 7529.1 |
| 30° | 7007.4 | 6962.2 | 6603.5 | 6176.2 | 6041.9 | 6000.8 | 5828.3 | 5777.6 | 5813.2 | 6659.5 | 7898.9 |
| 32.5° | 7318.2 | 7288.1 | 7070.4 | 6725.3 | 6600.7 | 6543.2 | 6299.4 | 6198.1 | 6114.5 | 6951.3 | 8400.1 |
| 35° | 7694.9 | 7675.7 | 7544.2 | 7293.6 | 7108.7 | 7048.5 | 6859.5 | 6754.1 | 6539.1 | 7352.5 | 9047.8 |
| 37.5° | 8174.1 | 8153.6 | 8156.4 | 7953.7 | 7733.2 | 7677.1 | 7552.4 | 7441.5 | 7089.5 | 7879.8 | 9751.7 |
| 40° | 8716.5 | 8676.7 | 8661.7 | 8652.1 | 8512.4 | 8480.9 | 8415.2 | 8264.6 | 7779.8 | 8509.7 | 10446.1 |
| 42.5° | 9532.6 | 9391.6 | 9090.3 | 9204.0 | 9342.3 | 9325.9 | 9379.3 | 9162.9 | 8546.7 | 9254.6 | 11124.0 |
| 45° | 10320.1 | 10088.7 | 9568.3 | 9592.9 | 9895.6 | 9987.3 | 10387.2 | 10233.8 | 9377.9 | 10070.9 | 11825.1 |
| 47.5° | 10678.9 | 10503.6 | 10061.3 | 10062.7 | 10362.5 | 10552.9 | 11429.3 | 11319.8 | 10251.6 | 10997.9 | 12681.0 |
| 50° | 11080.1 | 10904.8 | 10507.7 | 10657.0 | 10918.5 | 11121.2 | 12435.9 | 12379.7 | 11082.9 | 12012.7 | 13706.7 |
| 52.5° | 11518.3 | 11221.1 | 10969.2 | 11236.2 | 11603.3 | 11838.8 | 13443.7 | 13290.4 | 11845.7 | 13034.3 | 14885.8 |
| 55° | 11523.8 | 11443.0 | 11634.8 | 11830.6 | 12379.7 | 12668.7 | 14499.6 | 14094.2 | 12467.4 | 14038.1 | 15845.7 |
| 57.5° | 12179.8 | 12048.4 | 12455.1 | 12545.4 | 13263.0 | 13589.0 | 15550.0 | 14794.0 | 13100.1 | 14807.7 | 16363.4 |
| 60° | 13048.0 | 12935.7 | 13268.5 | 13506.8 | 14355.8 | 14791.3 | 16671.5 | 15513.0 | 13597.1 | 15388.3 | 16338.8 |
| 62.5° | 14547.5 | 14420.2 | 14416.1 | 14750.2 | 15893.7 | 16400.4 | 17930.1 | 16218.2 | 13794.4 | 15503.4 | 15641.7 |
| 65° | 16742.7 | 16540.1 | 16158.0 | 16316.9 | 18017.7 | 18523.0 | 19336.4 | 16729.0 | 13534.2 | 14887.2 | 13846.3 |
| 67.5° | 18879.0 | 18872.2 | 18402.5 | 18728.4 | 20822.3 | 21227.6 | 20938.7 | 16779.7 | 12722.1 | 12741.2 | 10661.1 |
| 70° | 21008.5 | 21035.9 | 20956.5 | 22090.4 | 24611.5 | 25033.3 | 22645.0 | 16099.1 | 10896.6 | 9201.3 | 6387.1 |
| 72.5° | 22695.7 | 22688.9 | 23088.7 | 26012.4 | 29529.2 | 29434.7 | 24082.9 | 14036.7 | 7823.6 | 4966.9 | 3052.5 |
| 75° | 21602.9 | 21364.6 | 22556.0 | 27954.3 | 32395.4 | 31933.9 | 22860.0 | 9791.5 | 4060.3 | 2261.0 | 1643.3 |
| 77.5° | 14090.1 | 14316.1 | 16064.9 | 23092.8 | 28336.4 | 27774.9 | 16771.5 | 4568.4 | 1913.1 | 1483.1 | 1191.4 |
| 80° | 5102.6 | 5340.8 | 7522.3 | 13080.9 | 19522.7 | 19431.0 | 8259.1 | 1877.5 | 1294.1 | 1120.2 | 868.2 |
| 82.5° | 1755.6 | 1843.3 | 2967.5 | 5809.1 | 11022.6 | 11433.4 | 3107.3 | 1066.8 | 940.8 | 794.2 | 594.3 |
| 85° | 688.8 | 788.8 | 1357.1 | 2795.0 | 5559.9 | 5601.0 | 1258.5 | 638.2 | 654.6 | 520.4 | 325.9 |
| 87.5° | 261.6 | 317.8 | 649.1 | 1298.2 | 2538.9 | 2332.1 | 450.6 | 304.1 | 372.5 | 309.5 | 154.7 |
| 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° | 6196.7 | 6196.7 | 6196.7 | 6196.7 | 6196.7 | 6196.7 | 6196.7 | 6196.7 | 6196.7 | 6196.7 | 6196.7 |
| 2.5° | 6206.2 | 6235.0 | 6295.3 | 6336.4 | 6380.2 | 6392.6 | 6398.1 | 6409.0 | 6419.9 | 6415.8 | 6417.2 |
| 5° | 6244.6 | 6300.8 | 6398.1 | 6439.1 | 6458.2 | 6436.3 | 6393.9 | 6359.7 | 6335.0 | 6321.3 | 6317.2 |
| 7.5° | 6307.6 | 6387.1 | 6491.1 | 6484.3 | 6440.4 | 6343.3 | 6233.6 | 6151.5 | 6083.0 | 6058.4 | 6044.7 |
| 10° | 6391.2 | 6484.3 | 6556.9 | 6478.8 | 6351.5 | 6183.1 | 6018.6 | 5891.3 | 5788.6 | 5748.9 | 5742.1 |
| 12.5° | 6498.0 | 6592.5 | 6606.2 | 6440.4 | 6229.5 | 5999.5 | 5776.2 | 5607.8 | 5454.5 | 5405.2 | 5394.2 |
| 15° | 6636.3 | 6725.3 | 6640.4 | 6373.4 | 6078.9 | 5769.4 | 5480.5 | 5251.8 | 5090.2 | 5030.0 | 5008.0 |
| 17.5° | 6781.5 | 6866.3 | 6647.2 | 6262.4 | 5881.7 | 5496.9 | 5134.0 | 4899.8 | 4714.9 | 4645.2 | 4636.9 |
| 20° | 6955.4 | 6993.7 | 6618.5 | 6103.6 | 5610.6 | 5143.6 | 4761.5 | 4541.0 | 4442.5 | 4393.2 | 4387.7 |
| 22.5° | 7170.4 | 7129.3 | 6552.8 | 5888.6 | 5266.9 | 4735.5 | 4424.7 | 4321.9 | 4297.3 | 4286.3 | 4290.4 |
| 25° | 7397.7 | 7271.8 | 6455.5 | 5607.8 | 4832.8 | 4327.4 | 4178.2 | 4206.9 | 4239.8 | 4235.7 | 4235.7 |
| 27.5° | 7648.3 | 7416.9 | 6306.3 | 5235.4 | 4352.1 | 3993.3 | 4011.1 | 4116.5 | 4165.8 | 4164.5 | 4163.1 |
| 30° | 7970.1 | 7581.2 | 6115.9 | 4787.6 | 3902.9 | 3757.8 | 3865.9 | 3994.7 | 4061.7 | 4059.0 | 4060.3 |
| 32.5° | 8365.9 | 7761.9 | 5857.1 | 4287.7 | 3578.4 | 3583.8 | 3708.4 | 3835.8 | 3913.9 | 3907.0 | 3908.4 |
| 35° | 8828.7 | 7964.6 | 5506.5 | 3794.8 | 3363.4 | 3445.5 | 3544.1 | 3633.1 | 3707.1 | 3697.5 | 3687.9 |
| 37.5° | 9332.7 | 8163.2 | 5040.9 | 3353.8 | 3188.0 | 3316.8 | 3398.9 | 3414.0 | 3448.2 | 3423.6 | 3405.8 |
| 40° | 9812.0 | 8315.2 | 4441.1 | 2992.2 | 3011.4 | 3207.2 | 3260.6 | 3200.3 | 3138.8 | 3130.6 | 3105.9 |
| 42.5° | 10229.7 | 8365.9 | 3834.4 | 2703.3 | 2825.1 | 3092.2 | 3125.1 | 2999.0 | 2888.2 | 2836.1 | 2814.2 |
| 45° | 10670.7 | 8383.7 | 3268.9 | 2460.9 | 2645.8 | 2989.5 | 3025.1 | 2856.7 | 2700.6 | 2588.2 | 2551.2 |
| 47.5° | 11247.2 | 8512.4 | 2829.3 | 2281.5 | 2508.8 | 2921.1 | 2971.6 | 2742.9 | 2540.3 | 2380.1 | 2345.8 |
| 50° | 12001.8 | 8767.2 | 2471.9 | 2144.5 | 2419.8 | 2875.8 | 2933.4 | 2632.1 | 2408.8 | 2215.8 | 2181.5 |
| 52.5° | 12839.8 | 9001.4 | 2182.9 | 2033.6 | 2333.5 | 2796.4 | 2884.1 | 2552.6 | 2285.6 | 2063.8 | 2026.8 |
| 55° | 13425.9 | 8821.9 | 1950.1 | 1918.6 | 2221.2 | 2682.8 | 2815.6 | 2485.6 | 2108.9 | 1915.8 | 1882.9 |
| 57.5° | 13538.3 | 8208.4 | 1773.4 | 1799.5 | 2085.6 | 2540.3 | 2710.2 | 2336.2 | 2013.1 | 1851.5 | 1817.3 |
| 60° | 13231.5 | 7353.9 | 1641.9 | 1689.9 | 1940.5 | 2360.9 | 2512.9 | 2230.8 | 1921.3 | 1783.0 | 1754.3 |
| 62.5° | 12460.5 | 6478.8 | 1544.7 | 1591.3 | 1804.9 | 2178.8 | 2389.7 | 2119.9 | 1828.2 | 1704.9 | 1676.2 |
| 65° | 10903.5 | 5439.4 | 1451.6 | 1503.6 | 1678.9 | 2021.3 | 2278.8 | 2017.2 | 1736.4 | 1641.9 | 1614.6 |
| 67.5° | 8230.3 | 4074.0 | 1364.0 | 1410.5 | 1566.7 | 1884.3 | 2158.2 | 1915.8 | 1647.4 | 1587.2 | 1554.3 |
| 70° | 4846.5 | 2551.2 | 1264.0 | 1313.3 | 1448.8 | 1741.9 | 2029.5 | 1804.9 | 1536.5 | 1509.1 | 1466.6 |
| 72.5° | 2255.5 | 1535.1 | 1150.4 | 1198.2 | 1301.0 | 1551.6 | 1863.8 | 1659.7 | 1405.1 | 1344.8 | 1287.3 |
| 75° | 1346.2 | 1123.0 | 1016.1 | 1058.6 | 1131.2 | 1348.9 | 1655.6 | 1511.9 | 1280.4 | 1201.0 | 1140.8 |
| 77.5° | 1006.5 | 858.6 | 868.2 | 913.4 | 972.3 | 1180.5 | 1466.6 | 1395.5 | 1184.6 | 1123.0 | 1081.9 |
| 80° | 724.5 | 651.9 | 708.0 | 757.3 | 818.9 | 1073.6 | 1405.1 | 1290.0 | 1070.9 | 988.7 | 950.4 |
| 82.5° | 483.4 | 468.4 | 532.8 | 583.3 | 643.6 | 939.5 | 1320.1 | 1129.8 | 914.8 | 810.7 | 725.8 |
| 85° | 267.1 | 282.1 | 358.8 | 380.7 | 432.7 | 661.4 | 1081.9 | 908.0 | 688.8 | 554.6 | 530.0 |
| 87.5° | 110.9 | 130.1 | 193.1 | 186.2 | 230.1 | 394.4 | 712.1 | 547.7 | 438.2 | 327.3 | 254.7 |
| 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)