

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: P318369

Luminaire Tested: **GAN-SA5C-730-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318369
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5C-730-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32200 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

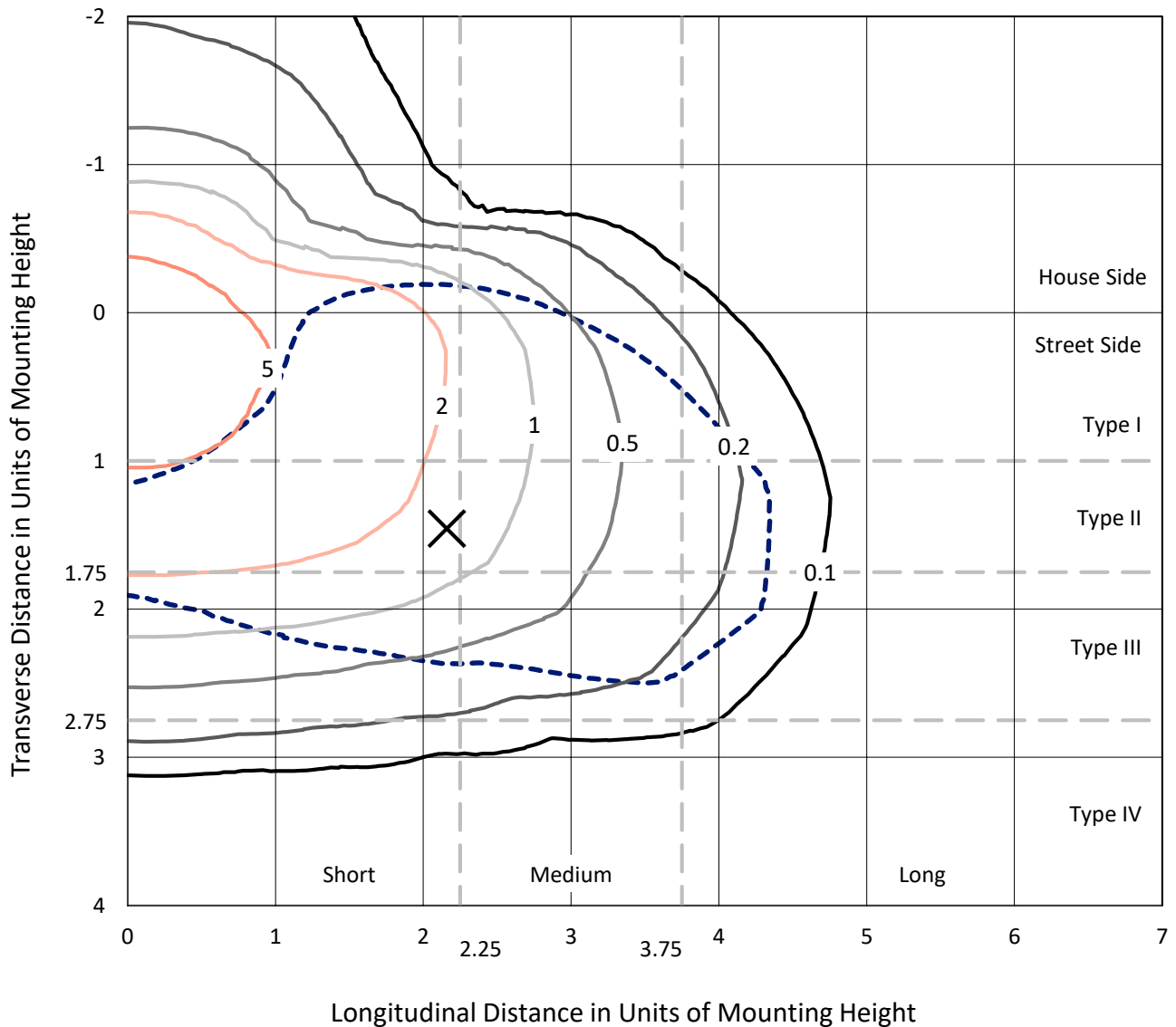
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

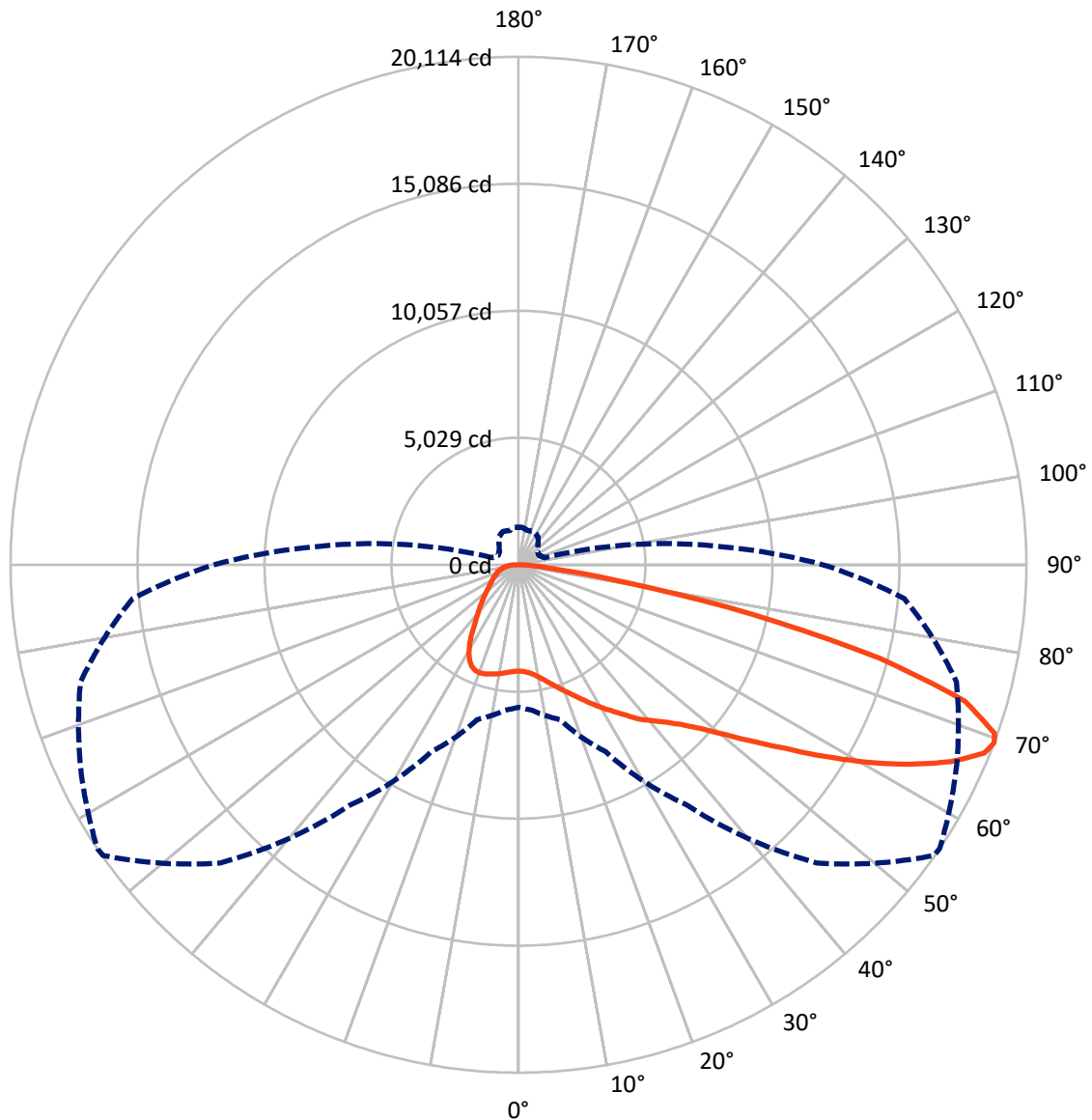
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7170.9 | 0.0 | 7170.9 |
| | % Fixture | 22.3 | 0.0 | 22.3 |
| Street Side | Lumens | 25029.1 | 0.0 | 25029.1 |
| | % Fixture | 77.7 | 0.0 | 77.7 |
| Total | Lumens | 32200.0 | 0.0 | 32200.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 413.5 | 1.3 |
| 10°-20° | 1329.5 | 4.1 |
| 20°-30° | 2320.8 | 7.2 |
| 30°-40° | 3333.8 | 10.4 |
| 40°-50° | 4613.8 | 14.3 |
| 50°-60° | 6759.8 | 21.0 |
| 60°-70° | 8241.4 | 25.6 |
| 70°-80° | 4556.4 | 14.2 |
| 80°-90° | 631.1 | 2.0 |
| 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° | 32200.0 | 100.0 |
| 0°-180° | 32200.0 | 100.0 |

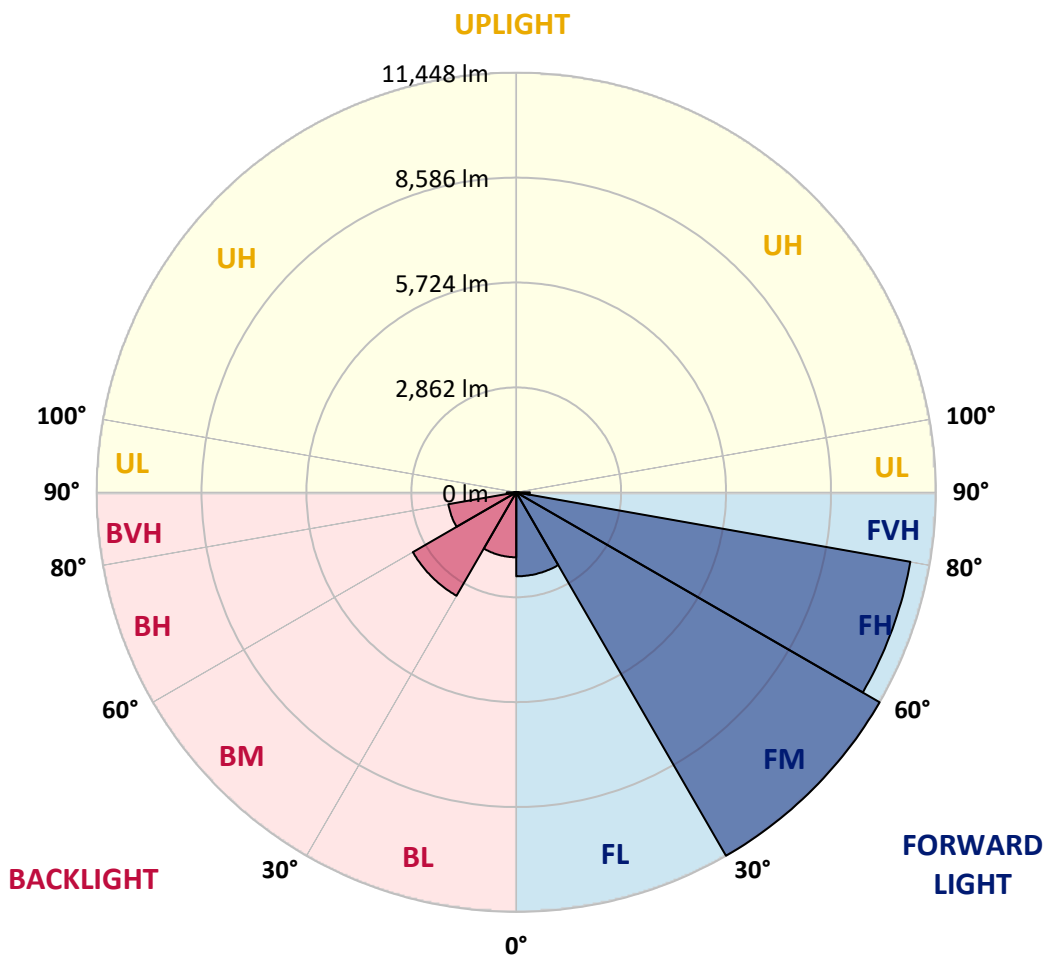


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2291.7 | 7.1 | | | |
| FM (30°-60°) | 11448.3 | 35.6 | | | |
| FH (60°-80°) | 10917.4 | 33.9 | | | G4/12000 |
| FVH (80°-90°) | 371.7 | 1.2 | | | G3/500 |
| BL (0°-30°) | 1772.1 | 5.5 | B3/2500 | | |
| BM (30°-60°) | 3259.0 | 10.1 | B3/5000 | | |
| BH (60°-80°) | 1880.4 | 5.8 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 259.3 | 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-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4209.7 | 4209.7 | 4209.7 | 4209.7 | 4209.7 | 4209.7 | 4209.7 | 4209.7 | 4209.7 | 4209.7 | 4209.7 |
| 2.5° | 4236.3 | 4240.7 | 4237.4 | 4246.3 | 4236.3 | 4242.9 | 4237.4 | 4237.4 | 4234.1 | 4224.1 | 4213.0 |
| 5° | 4302.8 | 4311.7 | 4306.2 | 4315.0 | 4302.8 | 4305.1 | 4295.1 | 4295.1 | 4285.1 | 4264.0 | 4241.8 |
| 7.5° | 4407.1 | 4417.1 | 4412.7 | 4421.5 | 4404.9 | 4404.9 | 4391.6 | 4390.5 | 4370.5 | 4336.1 | 4310.6 |
| 10° | 4531.4 | 4544.7 | 4540.2 | 4553.5 | 4540.2 | 4544.7 | 4531.4 | 4531.4 | 4504.7 | 4455.9 | 4423.8 |
| 12.5° | 4712.2 | 4728.8 | 4716.6 | 4715.5 | 4709.9 | 4718.8 | 4707.7 | 4705.5 | 4681.1 | 4614.5 | 4570.2 |
| 15° | 4954.0 | 4971.7 | 4946.2 | 4944.0 | 4912.9 | 4909.6 | 4909.6 | 4906.3 | 4890.8 | 4810.9 | 4737.7 |
| 17.5° | 5232.4 | 5238.0 | 5215.8 | 5180.3 | 5140.3 | 5114.8 | 5111.5 | 5120.4 | 5120.4 | 5027.2 | 4910.7 |
| 20° | 5505.3 | 5515.3 | 5497.5 | 5457.6 | 5406.6 | 5368.8 | 5342.2 | 5360.0 | 5358.9 | 5247.9 | 5082.7 |
| 22.5° | 5802.6 | 5825.9 | 5799.2 | 5748.2 | 5688.3 | 5646.2 | 5599.6 | 5615.1 | 5616.2 | 5479.8 | 5251.3 |
| 25° | 6187.5 | 6166.4 | 6149.8 | 6077.7 | 5992.3 | 5949.0 | 5905.7 | 5921.3 | 5916.8 | 5729.4 | 5425.4 |
| 27.5° | 6528.0 | 6532.5 | 6510.3 | 6433.7 | 6335.0 | 6239.6 | 6237.4 | 6247.4 | 6230.7 | 5988.9 | 5589.6 |
| 30° | 6924.0 | 6926.3 | 6895.2 | 6826.4 | 6718.8 | 6595.7 | 6566.9 | 6583.5 | 6548.0 | 6235.2 | 5762.6 |
| 32.5° | 7317.8 | 7328.9 | 7294.5 | 7211.3 | 7124.8 | 6975.1 | 6917.4 | 6928.5 | 6839.7 | 6487.0 | 5941.2 |
| 35° | 7662.8 | 7678.3 | 7667.2 | 7611.8 | 7517.5 | 7388.8 | 7320.0 | 7313.4 | 7203.6 | 6795.4 | 6177.5 |
| 37.5° | 8014.4 | 8028.9 | 8016.7 | 7970.1 | 7932.4 | 7795.9 | 7759.3 | 7759.3 | 7568.5 | 7110.4 | 6478.1 |
| 40° | 8376.1 | 8398.3 | 8383.8 | 8319.5 | 8287.3 | 8225.2 | 8137.6 | 8116.5 | 7910.2 | 7488.7 | 6968.4 |
| 42.5° | 8712.2 | 8741.0 | 8798.7 | 8761.0 | 8695.5 | 8704.4 | 8528.0 | 8516.9 | 8366.1 | 8047.7 | 7584.1 |
| 45° | 9189.2 | 9231.3 | 9328.9 | 9300.1 | 9286.8 | 9238.0 | 9028.3 | 9018.3 | 8960.7 | 8799.8 | 8348.3 |
| 47.5° | 9709.4 | 9767.1 | 9943.5 | 9949.0 | 10092.1 | 10000.0 | 9715.0 | 9680.6 | 9693.9 | 9700.5 | 9281.2 |
| 50° | 10188.6 | 10251.8 | 10541.4 | 10677.8 | 11015.0 | 11035.0 | 10579.1 | 10548.0 | 10600.1 | 10753.2 | 10368.3 |
| 52.5° | 10571.3 | 10651.2 | 11012.8 | 11434.3 | 12012.2 | 12176.4 | 11642.9 | 11619.6 | 11658.4 | 11922.4 | 11597.4 |
| 55° | 10852.0 | 10938.5 | 11332.3 | 12099.9 | 13022.8 | 13312.3 | 12867.5 | 12845.3 | 12869.7 | 13205.8 | 12934.0 |
| 57.5° | 10917.4 | 10938.5 | 11509.7 | 12548.0 | 13875.8 | 14571.3 | 14366.1 | 14321.7 | 14201.9 | 14494.8 | 14409.4 |
| 60° | 10610.1 | 10694.4 | 11363.3 | 12705.5 | 14535.8 | 15812.6 | 15932.4 | 15876.9 | 15540.8 | 15780.4 | 15711.6 |
| 62.5° | 9986.7 | 10137.6 | 10816.5 | 12465.9 | 14794.3 | 16826.5 | 17468.7 | 17402.2 | 16823.1 | 16978.4 | 16647.9 |
| 65° | 8968.4 | 9032.8 | 9746.0 | 11639.5 | 14465.9 | 17475.4 | 18838.7 | 18805.4 | 18076.6 | 17833.7 | 16820.9 |
| 67.5° | 7147.0 | 7267.9 | 7873.6 | 9912.4 | 13122.6 | 17398.8 | 19898.0 | 19894.7 | 18895.2 | 18150.9 | 16207.5 |
| 69° | 5646.2 | 5771.5 | 6348.3 | 8165.3 | 11611.8 | 16698.9 | 20075.5 | 20114.3 | 19126.0 | 17957.9 | 15331.2 |
| 70° | 4501.4 | 4646.7 | 5042.7 | 6877.5 | 10270.7 | 15776.0 | 19928.0 | 19997.9 | 19081.6 | 17639.6 | 14522.5 |
| 72.5° | 1915.7 | 2033.3 | 2315.0 | 3545.2 | 6259.6 | 11780.4 | 18220.8 | 18484.8 | 18053.3 | 16144.3 | 12002.3 |
| 75° | 836.4 | 873.0 | 1000.6 | 1445.4 | 2778.7 | 6411.6 | 14274.0 | 14762.1 | 15436.5 | 13646.2 | 8940.7 |
| 77.5° | 612.3 | 627.8 | 697.7 | 848.6 | 1246.8 | 2421.5 | 9179.2 | 9463.2 | 11132.6 | 9930.2 | 5484.2 |
| 80° | 473.7 | 484.7 | 539.1 | 623.4 | 814.2 | 979.5 | 4186.4 | 4430.4 | 6259.6 | 5100.4 | 2284.0 |
| 82.5° | 377.2 | 384.9 | 422.6 | 459.2 | 562.4 | 593.5 | 1389.9 | 1541.9 | 2310.6 | 1408.8 | 604.6 |
| 85° | 350.5 | 359.4 | 372.7 | 335.0 | 360.5 | 348.3 | 601.2 | 629.0 | 697.7 | 553.5 | 252.9 |
| 87.5° | 158.6 | 187.5 | 369.4 | 260.7 | 191.9 | 153.1 | 246.3 | 257.3 | 289.5 | 290.6 | 112.0 |
| 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° | 4209.7 | 4209.7 | 4209.7 | 4209.7 | 4209.7 | 4209.7 | 4209.7 | 4209.7 | 4209.7 | 4209.7 | 4209.7 |
| 2.5° | 4219.6 | 4216.3 | 4221.9 | 4208.6 | 4225.2 | 4224.1 | 4218.5 | 4220.8 | 4231.9 | 4230.7 | 4231.9 |
| 5° | 4245.2 | 4242.9 | 4249.6 | 4239.6 | 4259.6 | 4266.2 | 4267.3 | 4277.3 | 4289.5 | 4292.9 | 4292.9 |
| 7.5° | 4309.5 | 4309.5 | 4312.8 | 4299.5 | 4312.8 | 4311.7 | 4306.2 | 4316.2 | 4328.4 | 4329.5 | 4328.4 |
| 10° | 4420.4 | 4421.5 | 4416.0 | 4381.6 | 4370.5 | 4340.6 | 4312.8 | 4313.9 | 4329.5 | 4341.7 | 4345.0 |
| 12.5° | 4560.2 | 4555.8 | 4531.4 | 4468.1 | 4421.5 | 4360.5 | 4331.7 | 4330.6 | 4346.1 | 4356.1 | 4359.4 |
| 15° | 4719.9 | 4707.7 | 4644.5 | 4541.3 | 4459.3 | 4399.3 | 4352.8 | 4341.7 | 4332.8 | 4321.7 | 4322.8 |
| 17.5° | 4870.8 | 4843.1 | 4737.7 | 4594.6 | 4508.1 | 4428.2 | 4338.3 | 4266.2 | 4216.3 | 4187.5 | 4178.6 |
| 20° | 5023.9 | 4969.5 | 4817.5 | 4644.5 | 4534.7 | 4389.4 | 4216.3 | 4069.9 | 3978.9 | 3936.8 | 3929.0 |
| 22.5° | 5163.6 | 5076.0 | 4891.9 | 4696.6 | 4513.6 | 4258.5 | 3986.7 | 3773.7 | 3647.3 | 3590.7 | 3595.1 |
| 25° | 5300.1 | 5178.1 | 4969.5 | 4733.2 | 4407.1 | 4027.7 | 3667.2 | 3405.4 | 3259.0 | 3195.8 | 3193.6 |
| 27.5° | 5419.9 | 5281.2 | 5053.8 | 4703.3 | 4208.6 | 3699.4 | 3289.0 | 3033.8 | 2911.8 | 2857.5 | 2848.6 |
| 30° | 5557.4 | 5411.0 | 5165.9 | 4589.0 | 3917.9 | 3320.0 | 2919.6 | 2739.9 | 2653.4 | 2599.0 | 2589.0 |
| 32.5° | 5724.9 | 5587.4 | 5257.9 | 4381.6 | 3546.3 | 2924.0 | 2631.2 | 2505.8 | 2427.1 | 2366.1 | 2355.0 |
| 35° | 5969.0 | 5820.3 | 5281.2 | 4084.3 | 3138.1 | 2611.2 | 2419.3 | 2290.6 | 2184.1 | 2105.4 | 2097.6 |
| 37.5° | 6275.1 | 6112.1 | 5228.0 | 3699.4 | 2742.1 | 2408.2 | 2242.9 | 2084.3 | 1945.7 | 1834.7 | 1817.0 |
| 40° | 6716.6 | 6470.3 | 5080.4 | 3255.7 | 2450.4 | 2251.8 | 2071.0 | 1890.2 | 1718.3 | 1588.5 | 1563.0 |
| 42.5° | 7246.8 | 6890.8 | 4854.1 | 2814.2 | 2236.3 | 2093.2 | 1900.2 | 1676.1 | 1511.9 | 1419.9 | 1406.5 |
| 45° | 7921.3 | 7327.8 | 4540.2 | 2428.2 | 2025.5 | 1934.6 | 1716.0 | 1509.7 | 1407.7 | 1340.0 | 1328.9 |
| 47.5° | 8691.1 | 7818.1 | 4210.8 | 2114.3 | 1846.9 | 1785.9 | 1568.5 | 1435.4 | 1354.4 | 1301.2 | 1291.2 |
| 50° | 9637.3 | 8371.6 | 3861.4 | 1856.9 | 1667.2 | 1607.3 | 1498.6 | 1394.3 | 1330.0 | 1289.0 | 1279.0 |
| 52.5° | 10704.4 | 8996.1 | 3609.6 | 1653.9 | 1518.6 | 1475.3 | 1462.0 | 1372.2 | 1320.0 | 1289.0 | 1279.0 |
| 55° | 11853.6 | 9631.8 | 3337.8 | 1483.1 | 1389.9 | 1402.1 | 1437.6 | 1374.4 | 1338.9 | 1301.2 | 1286.7 |
| 57.5° | 13003.9 | 10288.4 | 3035.0 | 1338.9 | 1287.9 | 1347.8 | 1421.0 | 1378.8 | 1348.9 | 1312.3 | 1299.0 |
| 60° | 13913.5 | 10704.4 | 2565.7 | 1218.0 | 1206.9 | 1287.9 | 1381.0 | 1345.5 | 1306.7 | 1307.8 | 1305.6 |
| 62.5° | 14338.4 | 10682.2 | 2047.7 | 1110.4 | 1125.9 | 1206.9 | 1316.7 | 1293.4 | 1261.2 | 1304.5 | 1307.8 |
| 65° | 14099.9 | 10149.8 | 1594.0 | 1012.8 | 1039.4 | 1122.6 | 1250.1 | 1267.9 | 1279.0 | 1362.2 | 1373.3 |
| 67.5° | 13099.3 | 9113.7 | 1234.6 | 927.3 | 960.6 | 1064.9 | 1256.8 | 1381.0 | 1395.5 | 1483.1 | 1482.0 |
| 69° | 12064.4 | 8142.0 | 1072.7 | 883.0 | 921.8 | 1079.3 | 1343.3 | 1453.1 | 1398.8 | 1492.0 | 1478.7 |
| 70° | 11196.9 | 7373.3 | 986.1 | 853.0 | 904.1 | 1104.8 | 1401.0 | 1452.0 | 1382.1 | 1462.0 | 1439.8 |
| 72.5° | 8623.4 | 5304.5 | 836.4 | 797.6 | 844.2 | 1057.1 | 1417.6 | 1419.9 | 1343.3 | 1358.9 | 1321.1 |
| 75° | 5914.6 | 3352.2 | 729.9 | 722.1 | 753.2 | 952.9 | 1364.4 | 1356.6 | 1242.4 | 1220.2 | 1189.1 |
| 77.5° | 3261.2 | 1702.7 | 620.1 | 650.0 | 671.1 | 844.2 | 1240.2 | 1229.1 | 1134.8 | 1088.2 | 1077.1 |
| 80° | 1257.9 | 745.4 | 523.6 | 577.9 | 591.2 | 731.0 | 1087.1 | 1077.1 | 998.3 | 938.4 | 921.8 |
| 82.5° | 474.8 | 390.5 | 432.6 | 500.3 | 495.8 | 603.4 | 920.7 | 915.1 | 838.6 | 751.0 | 724.4 |
| 85° | 219.6 | 234.1 | 342.8 | 412.6 | 380.5 | 447.0 | 736.6 | 746.5 | 653.4 | 549.1 | 549.1 |
| 87.5° | 93.2 | 130.9 | 242.9 | 311.7 | 256.2 | 301.7 | 540.2 | 515.8 | 473.7 | 328.3 | 308.4 |
| 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)