

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: P318750

Luminaire Tested: **GAN-SA6A-750-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318750
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-SA6A-750-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 615mA 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: 28039 lumens
Efficiency: N/A
Efficacy: 145.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

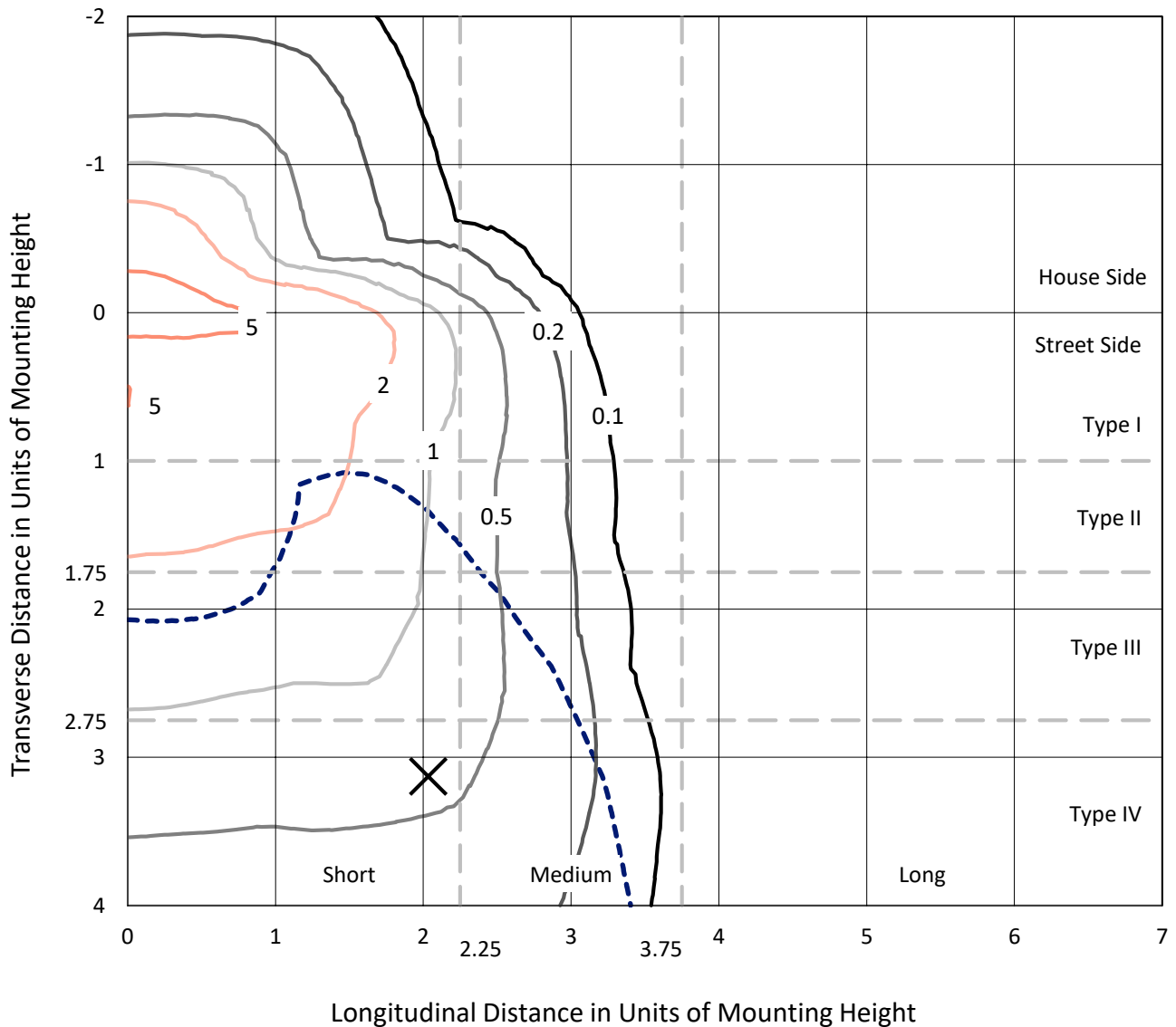
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

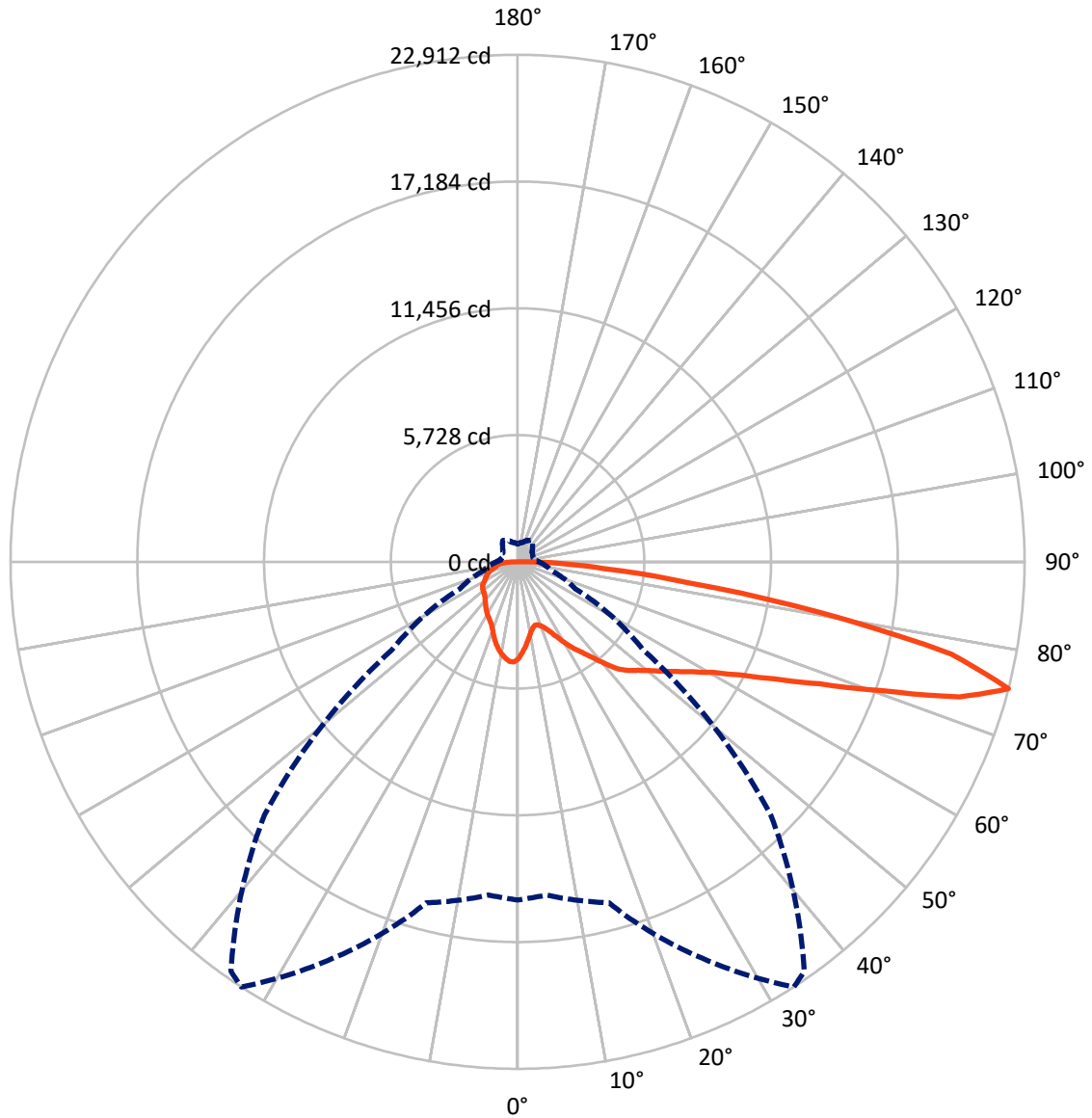
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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 | 6020.7 | 0.0 | 6020.7 |
| | % Fixture | 21.5 | 0.0 | 21.5 |
| Street Side | Lumens | 22018.3 | 0.0 | 22018.3 |
| | % Fixture | 78.5 | 0.0 | 78.5 |
| Total | Lumens | 28039.0 | 0.0 | 28039.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 396.4 | 1.4 |
| 10°-20° | 1073.5 | 3.8 |
| 20°-30° | 1753.2 | 6.3 |
| 30°-40° | 2610.9 | 9.3 |
| 40°-50° | 3744.7 | 13.4 |
| 50°-60° | 5140.9 | 18.3 |
| 60°-70° | 6436.2 | 23.0 |
| 70°-80° | 5822.6 | 20.8 |
| 80°-90° | 1060.6 | 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° | 28039.0 | 100.0 |
| 0°-180° | 28039.0 | 100.0 |

Coefficient of Utilization

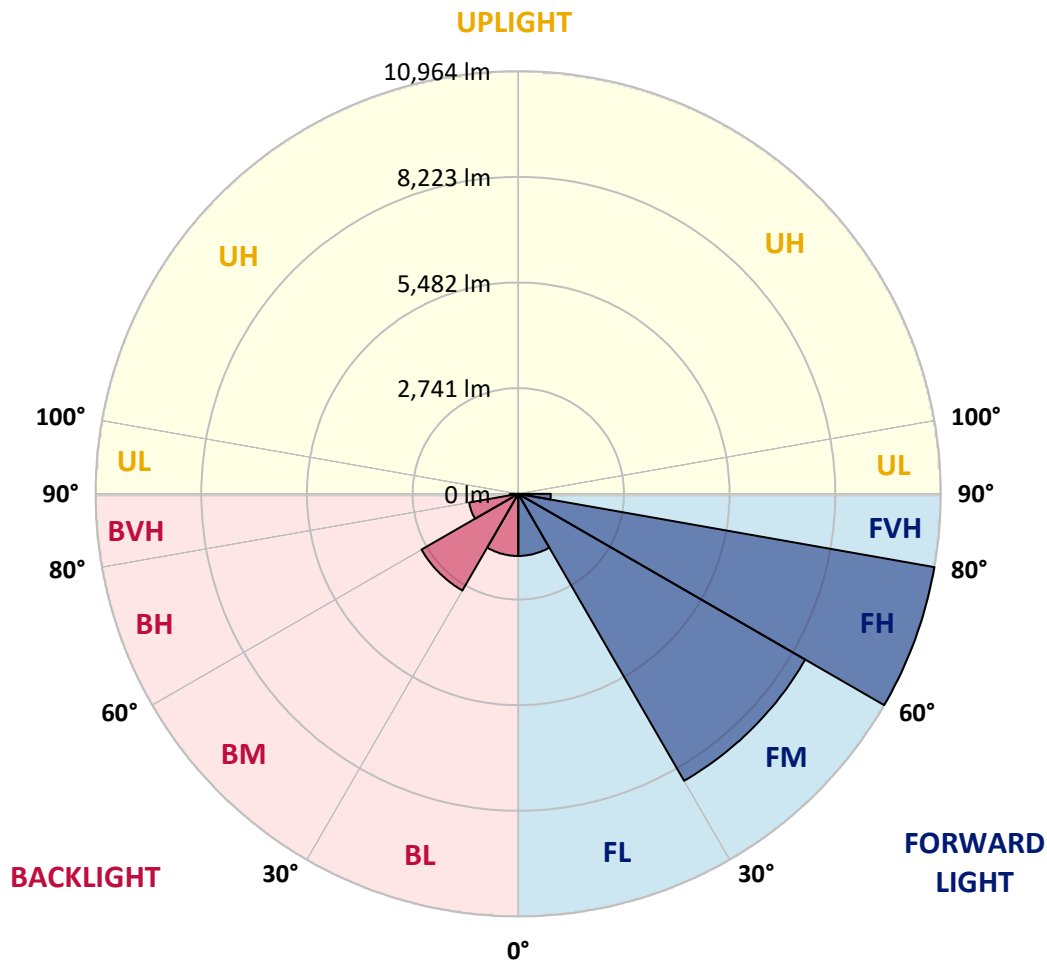


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1610.4 | 5.7 | | | |
| FM (30°-60°) | 8599.0 | 30.7 | | | |
| FH (60°-80°) | 10964.2 | 39.1 | | | G4/12000 |
| FVH (80°-90°) | 844.7 | 3.0 | | | G5 |
| BL (0°-30°) | 1612.6 | 5.8 | B3/2500 | | |
| BM (30°-60°) | 2897.6 | 10.3 | B3/5000 | | |
| BH (60°-80°) | 1294.6 | 4.6 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 215.9 | 0.8 | | | 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 IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 33° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|--------|---------|---------|
| 0° | 4382.7 | 4382.7 | 4382.7 | 4382.7 | 4382.7 | 4382.7 | 4382.7 | 4382.7 | 4382.7 | 4382.7 | 4382.7 |
| 2.5° | 4069.8 | 4054.3 | 4083.4 | 4087.2 | 4112.4 | 4122.1 | 4157.0 | 4211.2 | 4255.8 | 4307.1 | 4353.6 |
| 5° | 3700.8 | 3690.1 | 3730.8 | 3759.9 | 3815.1 | 3838.3 | 3920.7 | 4035.9 | 4138.6 | 4254.8 | 4360.4 |
| 7.5° | 3350.2 | 3344.4 | 3389.9 | 3455.8 | 3519.7 | 3551.6 | 3694.0 | 3861.6 | 4033.0 | 4220.9 | 4382.7 |
| 10° | 3054.8 | 3052.8 | 3096.4 | 3161.3 | 3255.3 | 3291.1 | 3475.1 | 3696.0 | 3936.2 | 4194.8 | 4420.4 |
| 12.5° | 2889.2 | 2895.9 | 2916.3 | 2970.5 | 3057.7 | 3093.5 | 3297.9 | 3557.5 | 3854.8 | 4186.0 | 4475.6 |
| 15° | 2929.8 | 2940.5 | 2905.6 | 2903.7 | 2965.7 | 2993.8 | 3185.5 | 3458.7 | 3796.7 | 4200.6 | 4556.0 |
| 17.5° | 3103.2 | 3105.1 | 3013.1 | 2955.0 | 2992.8 | 3007.3 | 3150.7 | 3402.5 | 3762.8 | 4233.5 | 4656.8 |
| 20° | 3347.3 | 3342.4 | 3179.7 | 3082.9 | 3103.2 | 3107.1 | 3200.1 | 3403.5 | 3759.9 | 4290.6 | 4787.5 |
| 22.5° | 3670.8 | 3634.9 | 3416.0 | 3284.3 | 3279.5 | 3273.7 | 3326.9 | 3475.1 | 3802.5 | 4383.6 | 4943.4 |
| 25° | 4093.1 | 4059.2 | 3757.9 | 3577.8 | 3539.1 | 3524.5 | 3532.3 | 3628.2 | 3886.8 | 4483.4 | 5117.8 |
| 27.5° | 4562.8 | 4503.7 | 4213.2 | 3958.4 | 3878.0 | 3857.7 | 3811.2 | 3844.1 | 3978.8 | 4579.3 | 5325.0 |
| 30° | 4956.0 | 4924.1 | 4670.3 | 4368.1 | 4273.2 | 4244.2 | 4122.1 | 4086.3 | 4111.5 | 4710.0 | 5586.6 |
| 32.5° | 5175.9 | 5154.6 | 5000.6 | 4756.5 | 4668.4 | 4627.7 | 4455.3 | 4383.6 | 4324.5 | 4916.3 | 5941.0 |
| 35° | 5442.2 | 5428.7 | 5335.7 | 5158.5 | 5027.7 | 4985.1 | 4851.4 | 4776.8 | 4624.8 | 5200.1 | 6399.2 |
| 37.5° | 5781.2 | 5766.7 | 5768.6 | 5625.3 | 5469.4 | 5429.6 | 5341.5 | 5263.1 | 5014.1 | 5573.0 | 6897.0 |
| 40° | 6164.8 | 6136.7 | 6126.0 | 6119.2 | 6020.5 | 5998.2 | 5951.7 | 5845.2 | 5502.3 | 6018.5 | 7388.0 |
| 42.5° | 6742.0 | 6642.3 | 6429.2 | 6509.6 | 6607.4 | 6595.8 | 6633.5 | 6480.5 | 6044.7 | 6545.4 | 7867.5 |
| 45° | 7298.9 | 7135.2 | 6767.2 | 6784.6 | 6998.7 | 7063.6 | 7346.4 | 7237.9 | 6632.6 | 7122.7 | 8363.4 |
| 47.5° | 7552.7 | 7428.7 | 7115.9 | 7116.8 | 7329.0 | 7463.6 | 8083.5 | 8006.0 | 7250.5 | 7778.4 | 8968.7 |
| 50° | 7836.5 | 7712.5 | 7431.6 | 7537.2 | 7722.2 | 7865.5 | 8795.3 | 8755.6 | 7838.4 | 8496.1 | 9694.1 |
| 52.5° | 8146.4 | 7936.2 | 7758.0 | 7946.9 | 8206.5 | 8373.0 | 9508.2 | 9399.7 | 8377.9 | 9218.6 | 10528.1 |
| 55° | 8150.3 | 8093.1 | 8228.7 | 8367.2 | 8755.6 | 8960.0 | 10254.9 | 9968.2 | 8817.6 | 9928.5 | 11207.0 |
| 57.5° | 8614.2 | 8521.2 | 8808.9 | 8872.8 | 9380.3 | 9610.8 | 10997.8 | 10463.2 | 9265.1 | 10472.8 | 11573.1 |
| 60° | 9228.3 | 9148.8 | 9384.2 | 9552.7 | 10153.2 | 10461.2 | 11791.0 | 10971.6 | 9616.7 | 10883.5 | 11555.7 |
| 62.5° | 10288.8 | 10198.7 | 10195.8 | 10432.2 | 11240.9 | 11599.3 | 12681.1 | 11470.4 | 9756.1 | 10964.9 | 11062.7 |
| 65° | 11841.4 | 11698.1 | 11427.8 | 11540.2 | 12743.1 | 13100.5 | 13675.8 | 11831.7 | 9572.1 | 10529.0 | 9792.9 |
| 67.5° | 13352.3 | 13347.5 | 13015.3 | 13245.8 | 14726.7 | 15013.4 | 14809.0 | 11867.5 | 8997.8 | 9011.3 | 7540.1 |
| 70° | 14858.4 | 14877.8 | 14821.6 | 15623.6 | 17406.6 | 17704.9 | 16015.8 | 11386.2 | 7706.7 | 6507.6 | 4517.3 |
| 72.5° | 16051.6 | 16046.8 | 16329.6 | 18397.5 | 20884.7 | 20817.8 | 17032.8 | 9927.6 | 5533.3 | 3512.9 | 2158.9 |
| 75° | 15278.8 | 15110.2 | 15952.9 | 19770.8 | 22911.8 | 22585.4 | 16167.9 | 6925.1 | 2871.7 | 1599.1 | 1162.3 |
| 77.5° | 9965.3 | 10125.1 | 11362.0 | 16332.5 | 20041.1 | 19644.0 | 11861.7 | 3231.1 | 1353.1 | 1048.9 | 842.6 |
| 80° | 3608.8 | 3777.3 | 5320.2 | 9251.5 | 13807.5 | 13742.6 | 5841.3 | 1327.9 | 915.3 | 792.3 | 614.1 |
| 82.5° | 1241.7 | 1303.7 | 2098.8 | 4108.6 | 7795.8 | 8086.4 | 2197.6 | 754.5 | 665.4 | 561.8 | 420.3 |
| 85° | 487.2 | 557.9 | 959.8 | 1976.8 | 3932.3 | 3961.3 | 890.1 | 451.3 | 463.0 | 368.0 | 230.5 |
| 87.5° | 185.0 | 224.7 | 459.1 | 918.2 | 1795.7 | 1649.4 | 318.7 | 215.0 | 263.4 | 218.9 | 109.4 |
| 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° | 4382.7 | 4382.7 | 4382.7 | 4382.7 | 4382.7 | 4382.7 | 4382.7 | 4382.7 | 4382.7 | 4382.7 | 4382.7 |
| 2.5° | 4389.4 | 4409.8 | 4452.4 | 4481.4 | 4512.4 | 4521.2 | 4525.0 | 4532.8 | 4540.5 | 4537.6 | 4538.6 |
| 5° | 4416.6 | 4456.3 | 4525.0 | 4554.1 | 4567.6 | 4552.1 | 4522.1 | 4497.9 | 4480.5 | 4470.8 | 4467.9 |
| 7.5° | 4461.1 | 4517.3 | 4590.9 | 4586.0 | 4555.1 | 4486.3 | 4408.8 | 4350.7 | 4302.3 | 4284.8 | 4275.1 |
| 10° | 4520.2 | 4586.0 | 4637.4 | 4582.2 | 4492.1 | 4373.0 | 4256.7 | 4166.7 | 4094.0 | 4065.9 | 4061.1 |
| 12.5° | 4595.7 | 4662.6 | 4672.2 | 4555.1 | 4405.9 | 4243.2 | 4085.3 | 3966.2 | 3857.7 | 3822.8 | 3815.1 |
| 15° | 4693.6 | 4756.5 | 4696.5 | 4507.6 | 4299.4 | 4080.5 | 3876.1 | 3714.4 | 3600.1 | 3557.5 | 3542.0 |
| 17.5° | 4796.2 | 4856.3 | 4701.3 | 4429.1 | 4159.9 | 3887.7 | 3631.1 | 3465.4 | 3334.7 | 3285.3 | 3279.5 |
| 20° | 4919.2 | 4946.3 | 4681.0 | 4316.8 | 3968.1 | 3637.8 | 3367.6 | 3211.7 | 3142.0 | 3107.1 | 3103.2 |
| 22.5° | 5071.3 | 5042.2 | 4634.5 | 4164.7 | 3725.0 | 3349.2 | 3129.4 | 3056.7 | 3039.3 | 3031.5 | 3034.4 |
| 25° | 5232.1 | 5143.0 | 4565.7 | 3966.2 | 3418.0 | 3060.6 | 2955.0 | 2975.4 | 2998.6 | 2995.7 | 2995.7 |
| 27.5° | 5409.3 | 5245.6 | 4460.1 | 3702.7 | 3078.0 | 2824.3 | 2836.9 | 2911.4 | 2946.3 | 2945.3 | 2944.4 |
| 30° | 5636.9 | 5361.8 | 4325.5 | 3386.0 | 2760.3 | 2657.7 | 2734.2 | 2825.2 | 2872.7 | 2870.8 | 2871.7 |
| 32.5° | 5916.8 | 5489.7 | 4142.5 | 3032.5 | 2530.8 | 2534.7 | 2622.8 | 2712.9 | 2768.1 | 2763.3 | 2764.2 |
| 35° | 6244.2 | 5633.0 | 3894.5 | 2683.8 | 2378.7 | 2436.9 | 2506.6 | 2569.5 | 2621.8 | 2615.1 | 2608.3 |
| 37.5° | 6600.6 | 5773.5 | 3565.2 | 2372.0 | 2254.8 | 2345.8 | 2403.9 | 2414.6 | 2438.8 | 2421.4 | 2408.8 |
| 40° | 6939.6 | 5881.0 | 3141.0 | 2116.3 | 2129.8 | 2268.3 | 2306.1 | 2263.5 | 2219.9 | 2214.1 | 2196.7 |
| 42.5° | 7235.0 | 5916.8 | 2711.9 | 1911.9 | 1998.1 | 2187.0 | 2210.2 | 2121.1 | 2042.7 | 2005.9 | 1990.4 |
| 45° | 7546.9 | 5929.4 | 2311.9 | 1740.5 | 1871.2 | 2114.3 | 2139.5 | 2020.4 | 1910.0 | 1830.5 | 1804.4 |
| 47.5° | 7954.6 | 6020.5 | 2001.0 | 1613.6 | 1774.4 | 2065.9 | 2101.7 | 1940.0 | 1796.6 | 1683.3 | 1659.1 |
| 50° | 8488.3 | 6200.6 | 1748.2 | 1516.7 | 1711.4 | 2033.9 | 2074.6 | 1861.5 | 1703.7 | 1567.1 | 1542.9 |
| 52.5° | 9081.1 | 6366.2 | 1543.9 | 1438.3 | 1650.4 | 1977.8 | 2039.7 | 1805.4 | 1616.5 | 1459.6 | 1433.4 |
| 55° | 9495.6 | 6239.3 | 1379.2 | 1356.9 | 1571.0 | 1897.4 | 1991.3 | 1757.9 | 1491.6 | 1355.0 | 1331.7 |
| 57.5° | 9575.0 | 5805.4 | 1254.3 | 1272.7 | 1475.1 | 1796.6 | 1916.7 | 1652.3 | 1423.8 | 1309.5 | 1285.3 |
| 60° | 9358.1 | 5201.1 | 1161.3 | 1195.2 | 1372.4 | 1669.8 | 1777.3 | 1577.8 | 1358.9 | 1261.0 | 1240.7 |
| 62.5° | 8812.8 | 4582.2 | 1092.5 | 1125.4 | 1276.5 | 1541.0 | 1690.1 | 1499.3 | 1293.0 | 1205.8 | 1185.5 |
| 65° | 7711.5 | 3847.0 | 1026.7 | 1063.5 | 1187.4 | 1429.6 | 1611.7 | 1426.7 | 1228.1 | 1161.3 | 1141.9 |
| 67.5° | 5820.9 | 2881.4 | 964.7 | 997.6 | 1108.0 | 1332.7 | 1526.4 | 1355.0 | 1165.2 | 1122.5 | 1099.3 |
| 70° | 3427.7 | 1804.4 | 894.0 | 928.8 | 1024.7 | 1232.0 | 1435.4 | 1276.5 | 1086.7 | 1067.3 | 1037.3 |
| 72.5° | 1595.2 | 1085.7 | 813.6 | 847.5 | 920.1 | 1097.4 | 1318.2 | 1173.9 | 993.7 | 951.1 | 910.4 |
| 75° | 952.1 | 794.2 | 718.7 | 748.7 | 800.0 | 954.0 | 1171.0 | 1069.3 | 905.6 | 849.4 | 806.8 |
| 77.5° | 711.9 | 607.3 | 614.1 | 646.0 | 687.7 | 834.9 | 1037.3 | 986.9 | 837.8 | 794.2 | 765.1 |
| 80° | 512.4 | 461.0 | 500.7 | 535.6 | 579.2 | 759.3 | 993.7 | 912.4 | 757.4 | 699.3 | 672.2 |
| 82.5° | 341.9 | 331.2 | 376.8 | 412.6 | 455.2 | 664.4 | 933.7 | 799.0 | 647.0 | 573.4 | 513.3 |
| 85° | 188.9 | 199.5 | 253.8 | 269.3 | 306.1 | 467.8 | 765.1 | 642.1 | 487.2 | 392.3 | 374.8 |
| 87.5° | 78.5 | 92.0 | 136.6 | 131.7 | 162.7 | 278.9 | 503.6 | 387.4 | 309.9 | 231.5 | 180.1 |
| 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)