

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: P194845

Luminaire Tested: **GAN-AF-07-LED-U-T3R-7060-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194845
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-07-LED-U-T3R-7060-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5700K, 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: 47223 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 448
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

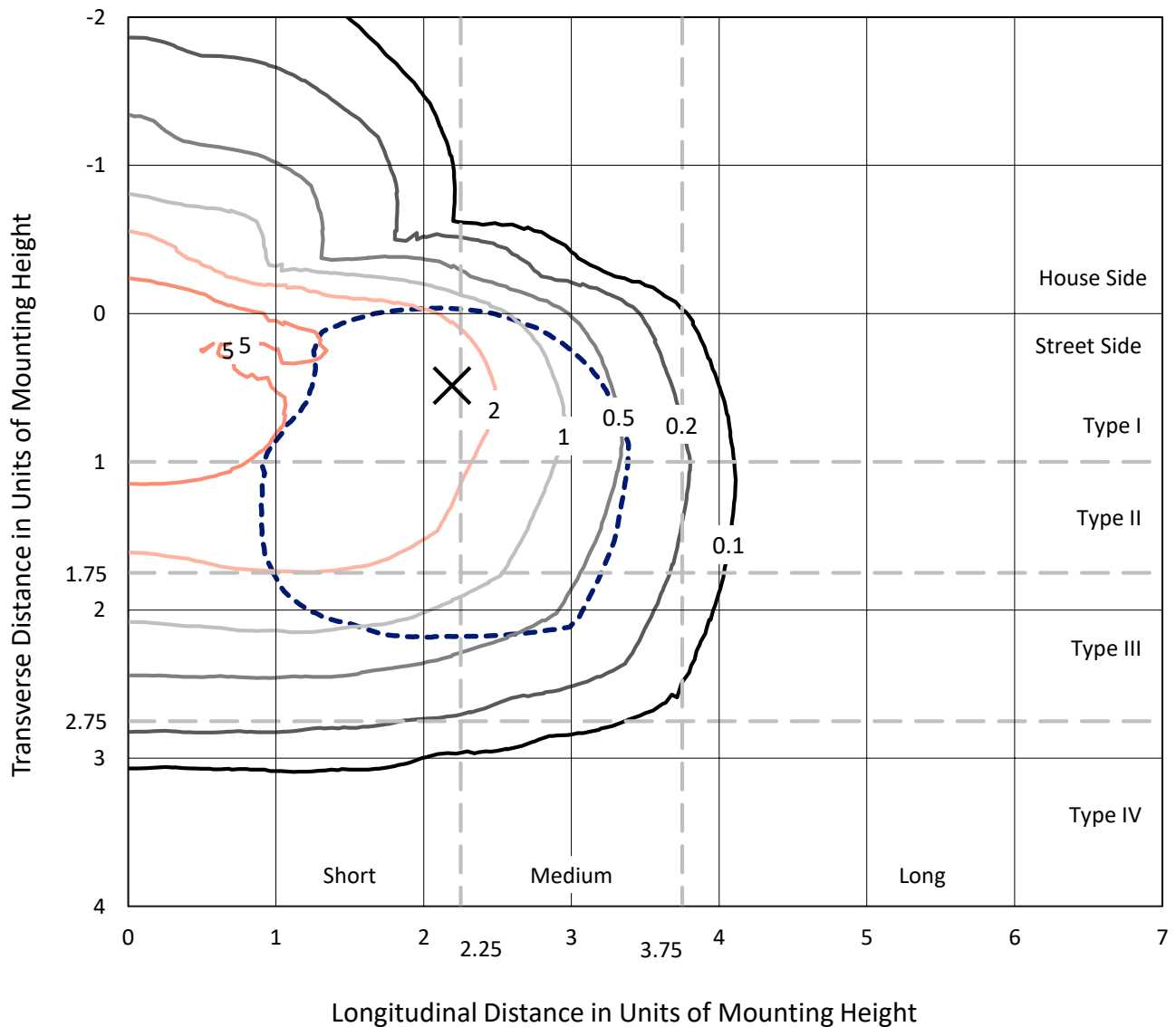


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

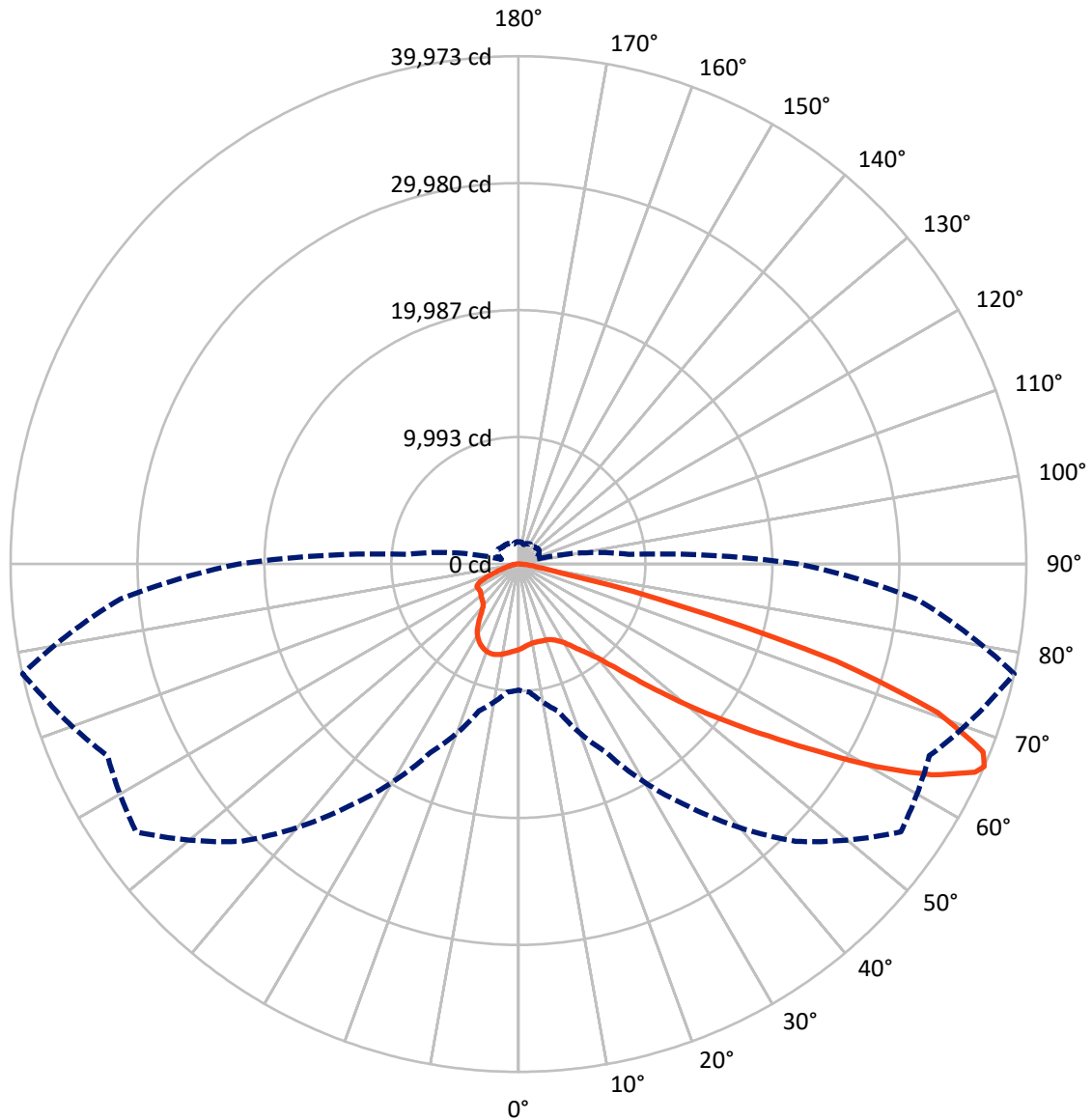


Based on 30 foot mounting height. Maximum calculated value = 9.2 fc
 Type III - Short - Full Cutoff

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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 | 8067.7 | 0.0 | 8067.7 |
| | % Fixture | 17.1 | 0.0 | 17.1 |
| Street Side | Lumens | 39155.2 | 0.0 | 39155.2 |
| | % Fixture | 82.9 | 0.0 | 82.9 |
| Total | Lumens | 47223.0 | 0.0 | 47223.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 601.2 | 1.3 |
| 10°-20° | 1696.2 | 3.6 |
| 20°-30° | 2894.8 | 6.1 |
| 30°-40° | 4634.0 | 9.8 |
| 40°-50° | 7159.1 | 15.2 |
| 50°-60° | 10154.0 | 21.5 |
| 60°-70° | 13583.3 | 28.8 |
| 70°-80° | 5899.0 | 12.5 |
| 80°-90° | 601.5 | 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° | 47223.0 | 100.0 |
| 0°-180° | 47223.0 | 100.0 |

Coefficient of Utilization



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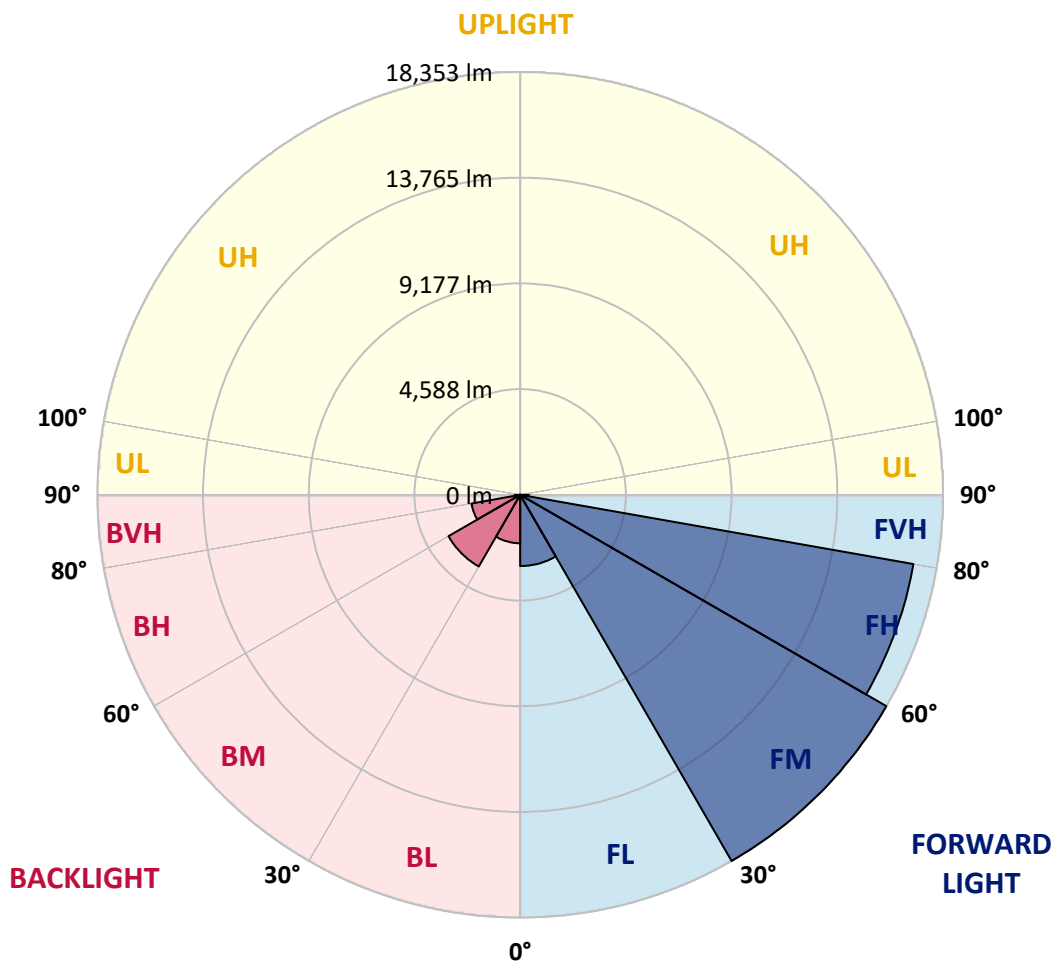
CATALOG NUMBER: GAN-AF-07-LED-U-T3R-7060-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 3091.0 | 6.5 | | | |
| FM | (30°-60°) | 18353.3 | 38.9 | | | |
| FH | (60°-80°) | 17333.7 | 36.7 | | | G5 |
| FVH | (80°-90°) | 377.3 | 0.8 | | | G3/500 |
| BL | (0°-30°) | 2101.2 | 4.4 | B3/2500 | | |
| BM | (30°-60°) | 3593.7 | 7.6 | B3/5000 | | |
| BH | (60°-80°) | 2148.6 | 4.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 224.3 | 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° | 6729.5 | 6729.5 | 6729.5 | 6729.5 | 6729.5 | 6729.5 | 6729.5 | 6729.5 | 6729.5 | 6729.5 | 6729.5 |
| 2.5° | 5953.0 | 5993.2 | 6026.7 | 6057.9 | 6120.4 | 6223.0 | 6341.3 | 6437.2 | 6575.5 | 6602.3 | 6676.0 |
| 5° | 5406.4 | 5406.4 | 5433.1 | 5480.0 | 5564.8 | 5718.7 | 5879.4 | 6093.6 | 6394.8 | 6466.2 | 6662.6 |
| 7.5° | 5140.8 | 5143.1 | 5158.7 | 5198.9 | 5272.5 | 5413.1 | 5589.3 | 5841.5 | 6249.8 | 6368.0 | 6702.7 |
| 10° | 5239.0 | 5216.7 | 5183.2 | 5163.2 | 5174.3 | 5256.9 | 5424.2 | 5705.4 | 6160.5 | 6312.3 | 6792.0 |
| 12.5° | 5787.9 | 5745.5 | 5629.5 | 5475.5 | 5328.3 | 5268.0 | 5366.2 | 5640.6 | 6122.6 | 6298.9 | 6910.2 |
| 15° | 6684.9 | 6667.0 | 6450.6 | 6131.5 | 5774.5 | 5475.5 | 5408.6 | 5616.1 | 6127.1 | 6314.5 | 7050.8 |
| 17.5° | 7809.4 | 7784.9 | 7499.3 | 7035.2 | 6452.8 | 5870.5 | 5558.1 | 5636.2 | 6142.7 | 6341.3 | 7186.9 |
| 20° | 8945.2 | 8869.3 | 8561.4 | 8008.0 | 7260.5 | 6408.2 | 5805.8 | 5687.5 | 6162.8 | 6370.3 | 7329.7 |
| 22.5° | 9793.0 | 9730.6 | 9453.9 | 8916.1 | 8054.9 | 7030.7 | 6138.2 | 5776.8 | 6227.5 | 6455.1 | 7506.0 |
| 25° | 10538.3 | 10542.7 | 10268.3 | 9748.4 | 8858.1 | 7691.2 | 6566.6 | 6015.5 | 6392.6 | 6629.1 | 7747.0 |
| 27.5° | 11459.8 | 11406.2 | 11149.6 | 10634.2 | 9652.5 | 8358.3 | 7084.3 | 6343.5 | 6638.0 | 6876.8 | 8063.8 |
| 30° | 12562.0 | 12524.1 | 12227.3 | 11642.8 | 10533.8 | 9074.6 | 7675.6 | 6725.0 | 6954.9 | 7202.5 | 8478.8 |
| 32.5° | 13858.4 | 13840.6 | 13532.6 | 12780.7 | 11551.3 | 9918.0 | 8369.5 | 7229.3 | 7427.9 | 7684.5 | 9074.6 |
| 35° | 15380.1 | 15382.4 | 15018.7 | 14115.0 | 12664.7 | 10899.7 | 9157.1 | 7878.6 | 8003.6 | 8271.3 | 9784.1 |
| 37.5° | 16317.3 | 16431.1 | 16294.9 | 15373.4 | 13925.3 | 11997.5 | 10179.0 | 8739.9 | 8659.5 | 8929.5 | 10545.0 |
| 40° | 16518.1 | 16656.4 | 17087.0 | 16618.5 | 15335.5 | 13206.9 | 11084.9 | 9567.7 | 9467.3 | 9797.5 | 11524.5 |
| 42.5° | 16236.9 | 16428.8 | 17339.2 | 17669.4 | 16832.7 | 14697.4 | 12303.2 | 10797.1 | 10669.9 | 11113.9 | 12742.8 |
| 45° | 16069.6 | 16212.4 | 17265.5 | 18216.1 | 18131.3 | 16382.0 | 13853.9 | 12341.1 | 12294.3 | 12876.6 | 14148.5 |
| 47.5° | 15779.5 | 15908.9 | 16921.9 | 18343.2 | 18894.4 | 17926.0 | 15717.0 | 14228.8 | 14320.3 | 15083.4 | 15734.9 |
| 50° | 15935.7 | 15989.3 | 16538.2 | 18019.7 | 19115.3 | 19057.3 | 17798.8 | 16415.4 | 16727.8 | 17680.6 | 17531.1 |
| 52.5° | 15913.4 | 16051.7 | 16493.5 | 17488.7 | 19144.3 | 19755.6 | 19849.4 | 18854.2 | 19512.4 | 20605.8 | 19523.6 |
| 55° | 12865.5 | 13119.9 | 15969.2 | 17354.8 | 19246.9 | 20440.6 | 21674.5 | 21424.6 | 22651.8 | 23925.9 | 21772.7 |
| 57.5° | 12285.4 | 12446.0 | 14025.7 | 17635.9 | 19791.3 | 21748.2 | 23705.0 | 24253.9 | 26306.6 | 27786.0 | 24512.7 |
| 60° | 12171.6 | 12370.1 | 14005.7 | 17979.6 | 20895.8 | 23879.0 | 26715.0 | 27678.9 | 30753.6 | 32373.5 | 27690.0 |
| 62.5° | 11816.8 | 12031.0 | 13874.0 | 17934.9 | 22464.4 | 26826.5 | 30568.4 | 31320.3 | 34970.7 | 36545.9 | 30347.5 |
| 65° | 10692.2 | 10893.0 | 12800.8 | 17214.2 | 23522.0 | 29972.6 | 35129.1 | 34658.3 | 38299.7 | 39484.5 | 31672.8 |
| 66° | 9922.4 | 10118.8 | 11955.1 | 16366.3 | 23276.6 | 30865.1 | 36744.5 | 35691.4 | 39044.9 | 39973.2 | 31414.0 |
| 67.5° | 8514.5 | 8668.5 | 10312.9 | 14467.5 | 21971.3 | 31115.0 | 38103.4 | 36467.8 | 39123.0 | 39451.0 | 29934.7 |
| 70° | 5379.6 | 5424.2 | 6702.7 | 9987.2 | 16631.9 | 26984.9 | 36035.0 | 34540.0 | 35896.6 | 35008.6 | 25095.1 |
| 72.5° | 2333.9 | 2318.3 | 3217.5 | 5080.6 | 9415.9 | 18106.7 | 29149.3 | 28500.0 | 28158.6 | 26132.6 | 17566.8 |
| 75° | 1298.6 | 1316.4 | 1671.2 | 2358.4 | 3826.6 | 8893.8 | 19068.4 | 18247.3 | 15406.9 | 13146.6 | 7965.6 |
| 77.5° | 1042.0 | 1066.5 | 1385.6 | 1673.5 | 1718.1 | 3101.5 | 8922.8 | 7260.5 | 4371.1 | 3507.6 | 2213.4 |
| 80° | 823.3 | 868.0 | 1209.3 | 1303.1 | 1158.0 | 1278.5 | 2882.8 | 2304.9 | 1729.2 | 1586.4 | 1146.9 |
| 82.5° | 651.5 | 682.8 | 1037.5 | 986.2 | 810.0 | 861.3 | 1381.2 | 1345.5 | 1124.6 | 1024.2 | 662.7 |
| 85° | 468.6 | 526.6 | 852.3 | 743.0 | 531.0 | 580.1 | 917.1 | 879.1 | 644.8 | 526.6 | 292.3 |
| 87.5° | 191.9 | 249.9 | 602.4 | 493.1 | 296.8 | 270.0 | 457.4 | 430.6 | 305.7 | 223.1 | 145.0 |
| 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° | 6729.5 | 6729.5 | 6729.5 | 6729.5 | 6729.5 | 6729.5 | 6729.5 | 6729.5 | 6729.5 | 6729.5 | 6729.5 |
| 2.5° | 6722.8 | 6776.4 | 6845.5 | 6887.9 | 6910.2 | 6925.9 | 6950.4 | 6948.2 | 6954.9 | 6957.1 | 6966.0 |
| 5° | 6767.4 | 6856.7 | 6957.1 | 6983.9 | 6983.9 | 6959.3 | 6934.8 | 6894.6 | 6879.0 | 6874.5 | 6879.0 |
| 7.5° | 6883.5 | 6981.6 | 7068.7 | 7037.4 | 6970.5 | 6872.3 | 6745.1 | 6633.6 | 6573.3 | 6553.2 | 6548.8 |
| 10° | 7030.7 | 7149.0 | 7184.7 | 7066.4 | 6870.1 | 6633.6 | 6381.4 | 6198.5 | 6093.6 | 6064.6 | 6055.7 |
| 12.5° | 7209.2 | 7320.8 | 7271.7 | 7021.8 | 6658.1 | 6276.6 | 5928.5 | 5636.2 | 5417.5 | 5348.3 | 5343.9 |
| 15° | 7405.6 | 7492.6 | 7320.8 | 6883.5 | 6341.3 | 5779.0 | 5158.7 | 4654.4 | 4382.2 | 4295.2 | 4288.5 |
| 17.5° | 7588.5 | 7633.2 | 7291.8 | 6642.5 | 5874.9 | 4964.6 | 4141.2 | 3753.0 | 3659.3 | 3681.6 | 3686.1 |
| 20° | 7744.7 | 7744.7 | 7193.6 | 6296.6 | 5140.8 | 3891.3 | 3371.4 | 3364.8 | 3431.7 | 3498.6 | 3512.0 |
| 22.5° | 7916.5 | 7813.9 | 7021.8 | 5808.0 | 4101.1 | 3184.0 | 3108.2 | 3170.6 | 3246.5 | 3320.1 | 3331.3 |
| 25° | 8128.5 | 7869.7 | 6783.1 | 5067.2 | 3224.2 | 2891.7 | 2920.7 | 2972.0 | 3010.0 | 3056.8 | 3063.5 |
| 27.5° | 8365.0 | 7941.1 | 6468.4 | 4047.5 | 2798.0 | 2708.8 | 2731.1 | 2748.9 | 2744.5 | 2762.3 | 2766.8 |
| 30° | 8648.4 | 8023.6 | 6037.8 | 3163.9 | 2621.7 | 2552.6 | 2512.4 | 2496.8 | 2496.8 | 2525.8 | 2537.0 |
| 32.5° | 9027.7 | 8146.4 | 5419.7 | 2711.0 | 2537.0 | 2441.0 | 2311.6 | 2253.6 | 2275.9 | 2374.1 | 2396.4 |
| 35° | 9445.0 | 8278.0 | 4583.0 | 2557.0 | 2519.1 | 2389.7 | 2188.9 | 2081.8 | 2084.0 | 2175.5 | 2204.5 |
| 37.5° | 9900.1 | 8445.3 | 3666.0 | 2528.0 | 2559.3 | 2391.9 | 2124.2 | 1976.9 | 1916.7 | 1916.7 | 1927.8 |
| 40° | 10482.5 | 8617.2 | 2967.6 | 2548.1 | 2644.1 | 2418.7 | 2090.7 | 1894.3 | 1724.8 | 1729.2 | 1738.2 |
| 42.5° | 11241.1 | 8764.4 | 2592.7 | 2590.5 | 2746.7 | 2454.4 | 2088.5 | 1785.0 | 1637.8 | 1738.2 | 1829.6 |
| 45° | 12084.5 | 8838.0 | 2427.6 | 2628.4 | 2829.2 | 2476.7 | 2052.8 | 1767.2 | 1648.9 | 1947.9 | 2121.9 |
| 47.5° | 13055.1 | 8795.7 | 2336.1 | 2641.8 | 2849.3 | 2476.7 | 2012.6 | 1809.6 | 1727.0 | 2255.8 | 2458.9 |
| 50° | 14119.5 | 8672.9 | 2246.9 | 2615.0 | 2842.6 | 2472.2 | 2050.5 | 1852.0 | 1756.0 | 2309.4 | 2449.9 |
| 52.5° | 15371.2 | 8570.3 | 2153.2 | 2557.0 | 2795.8 | 2447.7 | 2095.2 | 1834.1 | 1664.5 | 2099.6 | 2197.8 |
| 55° | 16799.2 | 8599.3 | 2048.3 | 2474.5 | 2722.1 | 2400.8 | 2079.5 | 1762.7 | 1568.6 | 1849.7 | 1910.0 |
| 57.5° | 18624.4 | 8945.2 | 1923.4 | 2369.6 | 2621.7 | 2322.7 | 2023.8 | 1729.2 | 1539.6 | 1677.9 | 1713.6 |
| 60° | 20661.5 | 9547.6 | 1767.2 | 2264.7 | 2496.8 | 2197.8 | 1981.4 | 1744.9 | 1553.0 | 1664.5 | 1682.4 |
| 62.5° | 22156.5 | 9897.9 | 1633.3 | 2110.8 | 2327.2 | 2059.5 | 1927.8 | 1764.9 | 1588.7 | 1711.4 | 1706.9 |
| 65° | 22562.6 | 9322.2 | 1465.9 | 1885.4 | 2097.4 | 1914.4 | 1860.9 | 1787.2 | 1604.3 | 1749.3 | 1729.2 |
| 66° | 21993.6 | 8701.9 | 1392.3 | 1780.6 | 1981.4 | 1843.0 | 1827.4 | 1785.0 | 1597.6 | 1753.8 | 1720.3 |
| 67.5° | 20612.4 | 7430.1 | 1265.1 | 1626.6 | 1796.2 | 1735.9 | 1773.9 | 1764.9 | 1579.7 | 1749.3 | 1702.5 |
| 70° | 16810.4 | 5069.4 | 1082.2 | 1354.4 | 1494.9 | 1528.4 | 1671.2 | 1693.5 | 1521.7 | 1671.2 | 1568.6 |
| 72.5° | 11745.4 | 3088.1 | 957.2 | 1050.9 | 1209.3 | 1303.1 | 1530.6 | 1595.4 | 1443.6 | 1459.2 | 1361.1 |
| 75° | 5676.3 | 1640.0 | 868.0 | 814.4 | 939.4 | 1088.9 | 1361.1 | 1461.5 | 1320.9 | 1220.5 | 1184.8 |
| 77.5° | 1769.4 | 1001.8 | 736.3 | 656.0 | 736.3 | 879.1 | 1137.9 | 1280.7 | 1175.9 | 1021.9 | 1008.5 |
| 80° | 950.5 | 736.3 | 566.7 | 526.6 | 582.4 | 689.5 | 894.7 | 1068.8 | 1010.8 | 917.1 | 818.9 |
| 82.5° | 627.0 | 477.5 | 419.5 | 408.3 | 444.0 | 526.6 | 664.9 | 885.8 | 885.8 | 785.4 | 571.2 |
| 85° | 323.5 | 292.3 | 287.8 | 287.8 | 310.1 | 350.3 | 452.9 | 682.8 | 727.4 | 415.0 | 343.6 |
| 87.5° | 160.7 | 167.3 | 156.2 | 162.9 | 174.0 | 171.8 | 216.4 | 343.6 | 410.6 | 252.1 | 209.7 |
| 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)