

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: P194044

Luminaire Tested: **GAN-AF-06-LED-U-T3R-8030-1200-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194044
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-06-LED-U-T3R-8030-1200-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 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: 32583 lumens
Efficiency: N/A
Efficacy: 85.3 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 - G4

Input Watts (W): 382
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

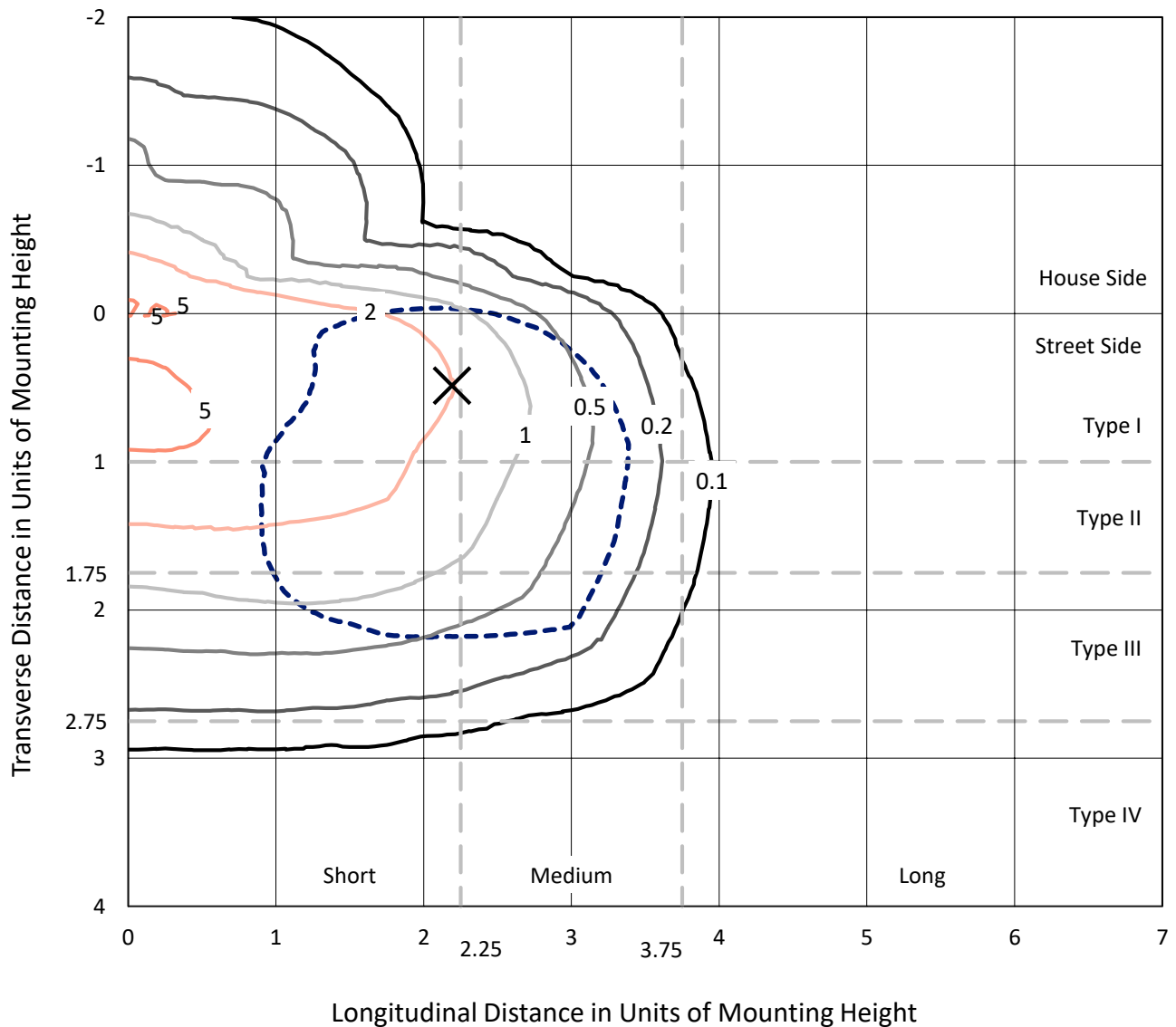


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

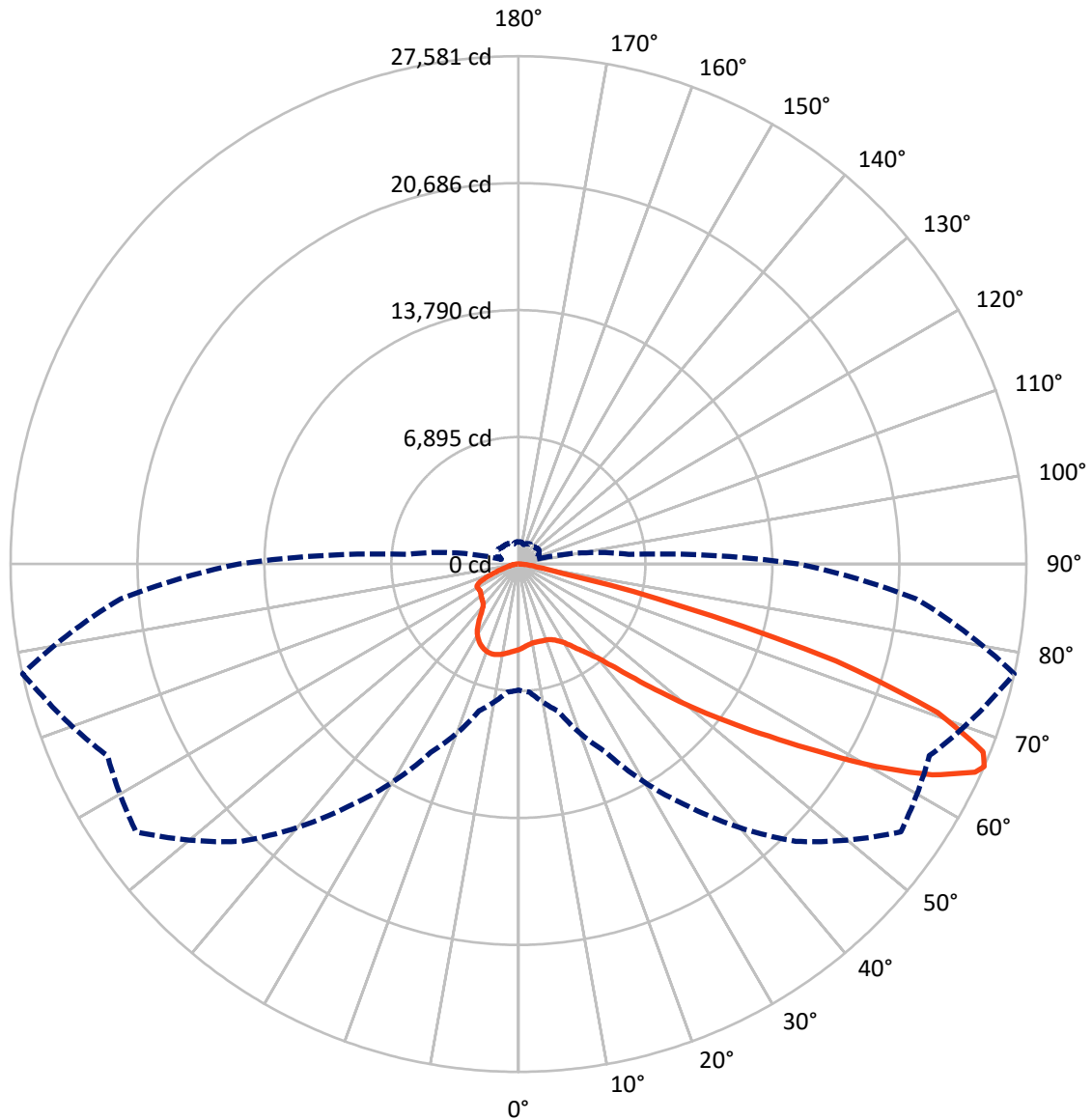


Based on 30 foot mounting height. Maximum calculated value = 6.4 fc
 Type III - Short - Full Cutoff

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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 | 5566.6 | 0.0 | 5566.6 |
| | % Fixture | 17.1 | 0.0 | 17.1 |
| Street Side | Lumens | 27016.4 | 0.0 | 27016.4 |
| | % Fixture | 82.9 | 0.0 | 82.9 |
| Total | Lumens | 32583.0 | 0.0 | 32583.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 414.8 | 1.3 |
| 10°-20° | 1170.3 | 3.6 |
| 20°-30° | 1997.3 | 6.1 |
| 30°-40° | 3197.4 | 9.8 |
| 40°-50° | 4939.6 | 15.2 |
| 50°-60° | 7006.1 | 21.5 |
| 60°-70° | 9372.2 | 28.8 |
| 70°-80° | 4070.2 | 12.5 |
| 80°-90° | 415.0 | 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° | 32583.0 | 100.0 |
| 0°-180° | 32583.0 | 100.0 |



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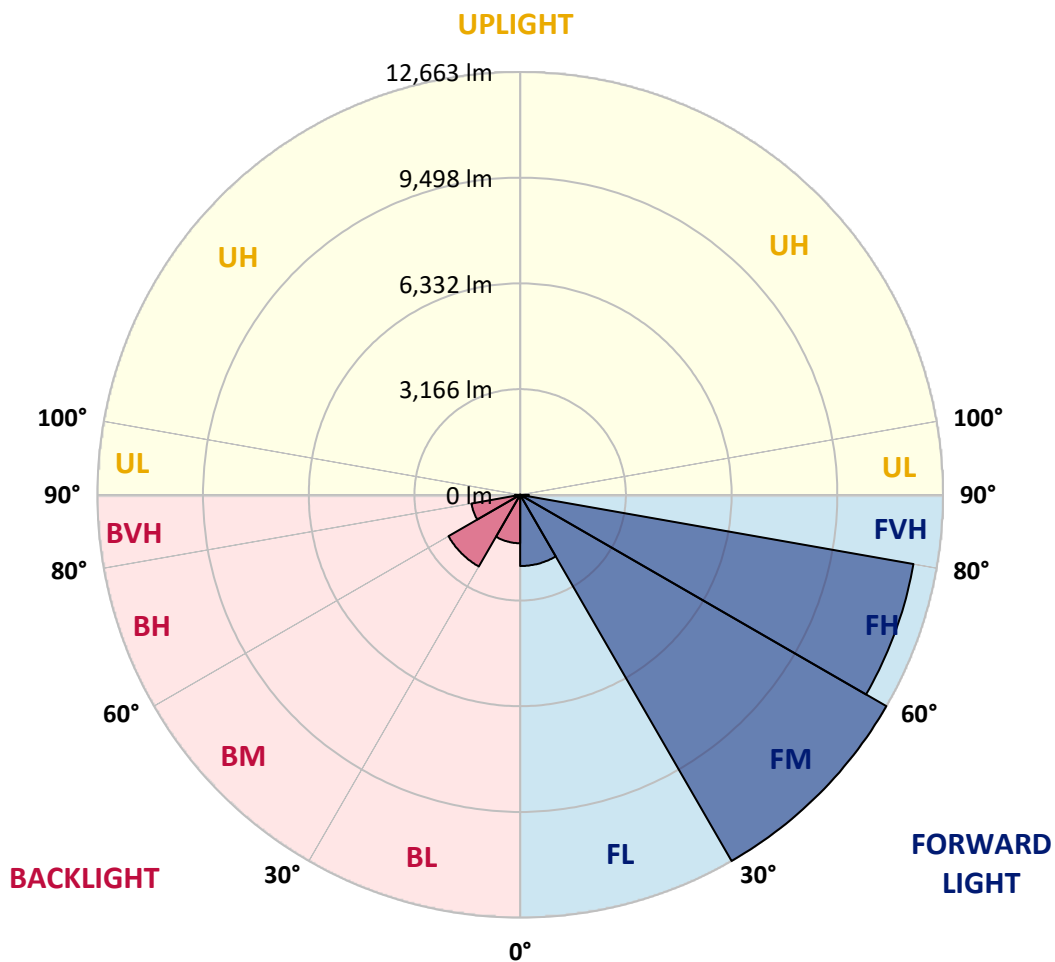
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2132.7 | 6.5 | | | |
| FM (30°-60°) | 12663.5 | 38.9 | | | |
| FH (60°-80°) | 11959.9 | 36.7 | | | G4/12000 |
| FVH (80°-90°) | 260.3 | 0.8 | | | G3/500 |
| BL (0°-30°) | 1449.8 | 4.4 | B3/2500 | | |
| BM (30°-60°) | 2479.6 | 7.6 | B2/2500 | | |
| BH (60°-80°) | 1482.5 | 4.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 154.7 | 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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77.5° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4643.2 | 4643.2 | 4643.2 | 4643.2 | 4643.2 | 4643.2 | 4643.2 | 4643.2 | 4643.2 | 4643.2 | 4643.2 |
| 2.5° | 4107.5 | 4135.2 | 4158.3 | 4179.8 | 4222.9 | 4293.8 | 4375.4 | 4441.6 | 4537.0 | 4555.5 | 4606.3 |
| 5° | 3730.3 | 3730.3 | 3748.8 | 3781.1 | 3839.6 | 3945.8 | 4056.7 | 4204.5 | 4412.3 | 4461.6 | 4597.0 |
| 7.5° | 3547.1 | 3548.6 | 3559.4 | 3587.1 | 3637.9 | 3734.9 | 3856.5 | 4030.5 | 4312.2 | 4393.8 | 4624.8 |
| 10° | 3614.8 | 3599.4 | 3576.3 | 3562.5 | 3570.2 | 3627.1 | 3742.6 | 3936.6 | 4250.7 | 4355.3 | 4686.3 |
| 12.5° | 3993.5 | 3964.3 | 3884.2 | 3778.0 | 3676.4 | 3634.8 | 3702.6 | 3891.9 | 4224.5 | 4346.1 | 4767.9 |
| 15° | 4612.4 | 4600.1 | 4450.8 | 4230.6 | 3984.3 | 3778.0 | 3731.8 | 3875.0 | 4227.6 | 4356.9 | 4864.9 |
| 17.5° | 5388.4 | 5371.4 | 5174.4 | 4854.1 | 4452.3 | 4050.5 | 3835.0 | 3888.9 | 4238.3 | 4375.4 | 4958.8 |
| 20° | 6172.0 | 6119.6 | 5907.2 | 5525.4 | 5009.6 | 4421.5 | 4005.9 | 3924.3 | 4252.2 | 4395.4 | 5057.4 |
| 22.5° | 6757.0 | 6713.9 | 6523.0 | 6152.0 | 5557.7 | 4851.1 | 4235.3 | 3985.9 | 4296.8 | 4453.9 | 5179.0 |
| 25° | 7271.2 | 7274.3 | 7084.9 | 6726.2 | 6111.9 | 5306.8 | 4530.8 | 4150.6 | 4410.8 | 4574.0 | 5345.3 |
| 27.5° | 7907.0 | 7870.1 | 7693.0 | 7337.4 | 6660.0 | 5767.1 | 4888.0 | 4376.9 | 4580.1 | 4744.8 | 5563.9 |
| 30° | 8667.6 | 8641.4 | 8436.6 | 8033.3 | 7268.1 | 6261.3 | 5296.0 | 4640.2 | 4798.7 | 4969.6 | 5850.2 |
| 32.5° | 9562.0 | 9549.7 | 9337.3 | 8818.4 | 7970.2 | 6843.2 | 5774.8 | 4988.1 | 5125.1 | 5302.2 | 6261.3 |
| 35° | 10612.0 | 10613.5 | 10362.6 | 9739.1 | 8738.4 | 7520.6 | 6318.2 | 5436.1 | 5522.3 | 5707.0 | 6750.9 |
| 37.5° | 11258.6 | 11337.1 | 11243.2 | 10607.4 | 9608.2 | 8278.1 | 7023.4 | 6030.4 | 5974.9 | 6161.2 | 7275.8 |
| 40° | 11397.2 | 11492.6 | 11789.7 | 11466.4 | 10581.2 | 9112.5 | 7648.4 | 6601.5 | 6532.2 | 6760.1 | 7951.7 |
| 42.5° | 11203.2 | 11335.6 | 11963.7 | 12191.6 | 11614.2 | 10140.9 | 8489.0 | 7449.8 | 7362.0 | 7668.4 | 8792.3 |
| 45° | 11087.7 | 11186.2 | 11912.9 | 12568.7 | 12510.2 | 11303.3 | 9559.0 | 8515.2 | 8482.8 | 8884.6 | 9762.2 |
| 47.5° | 10887.6 | 10976.9 | 11675.8 | 12656.5 | 13036.8 | 12368.6 | 10844.5 | 9817.6 | 9880.7 | 10407.2 | 10856.8 |
| 50° | 10995.3 | 11032.3 | 11411.0 | 12433.3 | 13189.2 | 13149.2 | 12280.9 | 11326.3 | 11541.9 | 12199.3 | 12096.1 |
| 52.5° | 10980.0 | 11075.4 | 11380.2 | 12066.9 | 13209.2 | 13631.0 | 13695.7 | 13009.1 | 13463.2 | 14217.6 | 13470.9 |
| 55° | 8876.9 | 9052.5 | 11018.4 | 11974.5 | 13280.0 | 14103.7 | 14955.0 | 14782.6 | 15629.3 | 16508.4 | 15022.8 |
| 57.5° | 8476.7 | 8587.5 | 9677.5 | 12168.5 | 13655.7 | 15005.8 | 16356.0 | 16734.7 | 18151.1 | 19171.8 | 16913.3 |
| 60° | 8398.2 | 8535.2 | 9663.7 | 12405.6 | 14417.7 | 16476.1 | 18432.8 | 19097.9 | 21219.4 | 22337.1 | 19105.6 |
| 62.5° | 8153.4 | 8301.2 | 9572.8 | 12374.8 | 15500.0 | 18509.8 | 21091.6 | 21610.4 | 24129.1 | 25216.0 | 20939.2 |
| 65° | 7377.4 | 7516.0 | 8832.3 | 11877.5 | 16229.8 | 20680.6 | 24238.4 | 23913.6 | 26426.1 | 27243.6 | 21853.7 |
| 66° | 6846.3 | 6981.8 | 8248.8 | 11292.5 | 16060.4 | 21296.4 | 25353.0 | 24626.4 | 26940.3 | 27580.7 | 21675.1 |
| 67.5° | 5874.9 | 5981.1 | 7115.7 | 9982.3 | 15159.8 | 21468.8 | 26290.6 | 25162.1 | 26994.2 | 27220.5 | 20654.4 |
| 70° | 3711.8 | 3742.6 | 4624.8 | 6891.0 | 11475.7 | 18619.1 | 24863.5 | 23832.0 | 24768.0 | 24155.3 | 17315.1 |
| 72.5° | 1610.4 | 1599.6 | 2220.0 | 3505.5 | 6496.8 | 12493.3 | 20112.5 | 19664.5 | 19428.9 | 18031.0 | 12120.7 |
| 75° | 896.0 | 908.3 | 1153.1 | 1627.3 | 2640.3 | 6136.6 | 13156.9 | 12590.3 | 10630.5 | 9070.9 | 5496.1 |
| 77.5° | 719.0 | 735.9 | 956.1 | 1154.6 | 1185.4 | 2140.0 | 6156.6 | 5009.6 | 3015.9 | 2420.1 | 1527.2 |
| 80° | 568.1 | 598.9 | 834.4 | 899.1 | 799.0 | 882.2 | 1989.1 | 1590.3 | 1193.1 | 1094.6 | 791.3 |
| 82.5° | 449.5 | 471.1 | 715.9 | 680.5 | 558.9 | 594.3 | 953.0 | 928.3 | 775.9 | 706.6 | 457.2 |
| 85° | 323.3 | 363.3 | 588.1 | 512.7 | 366.4 | 400.3 | 632.7 | 606.6 | 444.9 | 363.3 | 201.7 |
| 87.5° | 132.4 | 172.4 | 415.7 | 340.2 | 204.8 | 186.3 | 315.6 | 297.1 | 210.9 | 154.0 | 100.1 |
| 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° | 4643.2 | 4643.2 | 4643.2 | 4643.2 | 4643.2 | 4643.2 | 4643.2 | 4643.2 | 4643.2 | 4643.2 | 4643.2 |
| 2.5° | 4638.6 | 4675.6 | 4723.3 | 4752.5 | 4767.9 | 4778.7 | 4795.6 | 4794.1 | 4798.7 | 4800.3 | 4806.4 |
| 5° | 4669.4 | 4731.0 | 4800.3 | 4818.7 | 4818.7 | 4801.8 | 4784.9 | 4757.2 | 4746.4 | 4743.3 | 4746.4 |
| 7.5° | 4749.5 | 4817.2 | 4877.2 | 4855.7 | 4809.5 | 4741.8 | 4654.0 | 4577.0 | 4535.5 | 4521.6 | 4518.5 |
| 10° | 4851.1 | 4932.7 | 4957.3 | 4875.7 | 4740.2 | 4577.0 | 4403.1 | 4276.8 | 4204.5 | 4184.5 | 4178.3 |
| 12.5° | 4974.2 | 5051.2 | 5017.3 | 4844.9 | 4594.0 | 4330.7 | 4090.5 | 3888.9 | 3738.0 | 3690.3 | 3687.2 |
| 15° | 5109.7 | 5169.8 | 5051.2 | 4749.5 | 4375.4 | 3987.4 | 3559.4 | 3211.5 | 3023.6 | 2963.6 | 2959.0 |
| 17.5° | 5236.0 | 5266.7 | 5031.2 | 4583.2 | 4053.6 | 3425.5 | 2857.4 | 2589.5 | 2524.8 | 2540.2 | 2543.3 |
| 20° | 5343.7 | 5343.7 | 4963.5 | 4344.6 | 3547.1 | 2684.9 | 2326.2 | 2321.6 | 2367.8 | 2414.0 | 2423.2 |
| 22.5° | 5462.3 | 5391.4 | 4844.9 | 4007.4 | 2829.7 | 2196.9 | 2144.6 | 2187.7 | 2240.0 | 2290.8 | 2298.5 |
| 25° | 5608.5 | 5429.9 | 4680.2 | 3496.3 | 2224.6 | 1995.2 | 2015.2 | 2050.7 | 2076.8 | 2109.2 | 2113.8 |
| 27.5° | 5771.7 | 5479.2 | 4463.1 | 2792.7 | 1930.6 | 1869.0 | 1884.4 | 1896.7 | 1893.6 | 1905.9 | 1909.0 |
| 30° | 5967.2 | 5536.2 | 4166.0 | 2183.1 | 1809.0 | 1761.2 | 1733.5 | 1722.7 | 1722.7 | 1742.8 | 1750.4 |
| 32.5° | 6229.0 | 5620.8 | 3739.5 | 1870.5 | 1750.4 | 1684.2 | 1595.0 | 1554.9 | 1570.3 | 1638.1 | 1653.5 |
| 35° | 6516.8 | 5711.7 | 3162.2 | 1764.3 | 1738.1 | 1648.8 | 1510.3 | 1436.4 | 1437.9 | 1501.0 | 1521.1 |
| 37.5° | 6830.9 | 5827.1 | 2529.5 | 1744.3 | 1765.8 | 1650.4 | 1465.6 | 1364.0 | 1322.5 | 1322.5 | 1330.2 |
| 40° | 7232.7 | 5945.7 | 2047.6 | 1758.1 | 1824.3 | 1668.9 | 1442.5 | 1307.1 | 1190.1 | 1193.1 | 1199.3 |
| 42.5° | 7756.2 | 6047.3 | 1788.9 | 1787.4 | 1895.2 | 1693.5 | 1441.0 | 1231.6 | 1130.0 | 1199.3 | 1262.4 |
| 45° | 8338.1 | 6098.1 | 1675.0 | 1813.6 | 1952.1 | 1708.9 | 1416.4 | 1219.3 | 1137.7 | 1344.0 | 1464.1 |
| 47.5° | 9007.8 | 6068.8 | 1611.9 | 1822.8 | 1966.0 | 1708.9 | 1388.7 | 1248.6 | 1191.6 | 1556.5 | 1696.6 |
| 50° | 9742.2 | 5984.2 | 1550.3 | 1804.3 | 1961.4 | 1705.8 | 1414.8 | 1277.8 | 1211.6 | 1593.4 | 1690.4 |
| 52.5° | 10605.8 | 5913.3 | 1485.6 | 1764.3 | 1929.0 | 1688.9 | 1445.6 | 1265.5 | 1148.5 | 1448.7 | 1516.4 |
| 55° | 11591.1 | 5933.4 | 1413.3 | 1707.3 | 1878.2 | 1656.5 | 1434.8 | 1216.2 | 1082.3 | 1276.3 | 1317.8 |
| 57.5° | 12850.5 | 6172.0 | 1327.1 | 1635.0 | 1809.0 | 1602.7 | 1396.4 | 1193.1 | 1062.3 | 1157.7 | 1182.4 |
| 60° | 14256.1 | 6587.7 | 1219.3 | 1562.6 | 1722.7 | 1516.4 | 1367.1 | 1203.9 | 1071.5 | 1148.5 | 1160.8 |
| 62.5° | 15287.6 | 6829.4 | 1126.9 | 1456.4 | 1605.7 | 1421.0 | 1330.2 | 1217.8 | 1096.1 | 1180.8 | 1177.7 |
| 65° | 15567.8 | 6432.2 | 1011.5 | 1300.9 | 1447.2 | 1320.9 | 1284.0 | 1233.2 | 1106.9 | 1207.0 | 1193.1 |
| 66° | 15175.2 | 6004.2 | 960.7 | 1228.5 | 1367.1 | 1271.7 | 1260.9 | 1231.6 | 1102.3 | 1210.1 | 1187.0 |
| 67.5° | 14222.2 | 5126.6 | 872.9 | 1122.3 | 1239.3 | 1197.8 | 1223.9 | 1217.8 | 1090.0 | 1207.0 | 1174.7 |
| 70° | 11598.8 | 3497.8 | 746.7 | 934.5 | 1031.5 | 1054.6 | 1153.1 | 1168.5 | 1050.0 | 1153.1 | 1082.3 |
| 72.5° | 8104.1 | 2130.7 | 660.5 | 725.1 | 834.4 | 899.1 | 1056.1 | 1100.8 | 996.1 | 1006.9 | 939.1 |
| 75° | 3916.6 | 1131.6 | 598.9 | 561.9 | 648.1 | 751.3 | 939.1 | 1008.4 | 911.4 | 842.1 | 817.5 |
| 77.5° | 1220.8 | 691.3 | 508.0 | 452.6 | 508.0 | 606.6 | 785.2 | 883.7 | 811.3 | 705.1 | 695.9 |
| 80° | 655.8 | 508.0 | 391.0 | 363.3 | 401.8 | 475.7 | 617.4 | 737.4 | 697.4 | 632.7 | 565.0 |
| 82.5° | 432.6 | 329.5 | 289.4 | 281.7 | 306.4 | 363.3 | 458.8 | 611.2 | 611.2 | 541.9 | 394.1 |
| 85° | 223.2 | 201.7 | 198.6 | 198.6 | 214.0 | 241.7 | 312.5 | 471.1 | 501.9 | 286.4 | 237.1 |
| 87.5° | 110.8 | 115.5 | 107.8 | 112.4 | 120.1 | 118.5 | 149.3 | 237.1 | 283.3 | 174.0 | 144.7 |
| 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)