

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: P192302

Luminaire Tested: **GAN-AF-04-LED-U-T3R-7050-1200-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192302
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-04-LED-U-T3R-7050-1200-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 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: 26931 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

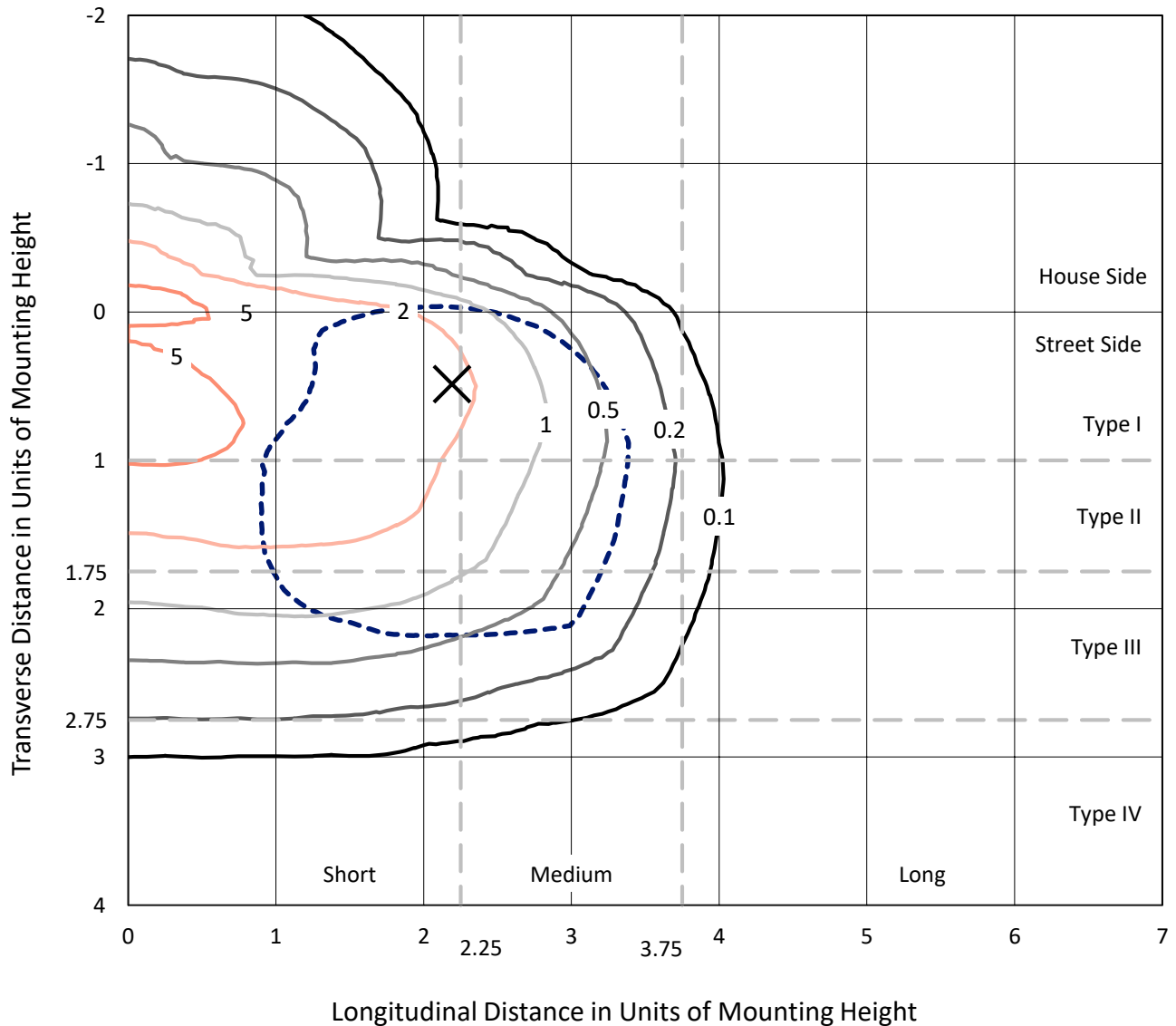
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

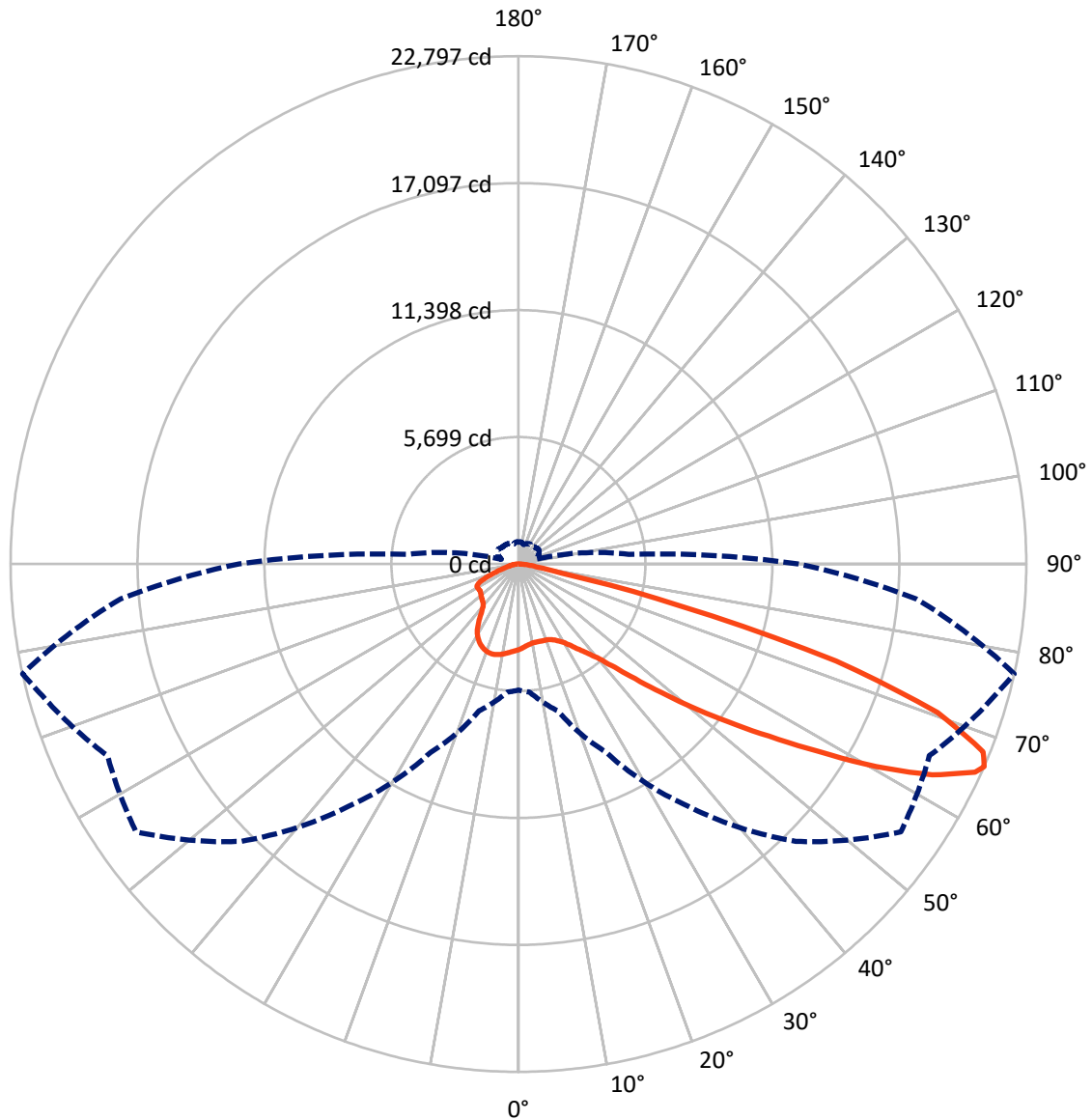


Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type III - Short - Full Cutoff

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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 | 4601.0 | 0.0 | 4601.0 |
| | % Fixture | 17.1 | 0.0 | 17.1 |
| Street Side | Lumens | 22330.0 | 0.0 | 22330.0 |
| | % Fixture | 82.9 | 0.0 | 82.9 |
| Total | Lumens | 26931.0 | 0.0 | 26931.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 342.9 | 1.3 |
| 10°-20° | 967.3 | 3.6 |
| 20°-30° | 1650.9 | 6.1 |
| 30°-40° | 2642.7 | 9.8 |
| 40°-50° | 4082.8 | 15.2 |
| 50°-60° | 5790.8 | 21.5 |
| 60°-70° | 7746.5 | 28.8 |
| 70°-80° | 3364.2 | 12.5 |
| 80°-90° | 343.0 | 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° | 26931.0 | 100.0 |
| 0°-180° | 26931.0 | 100.0 |

Coefficient of Utilization



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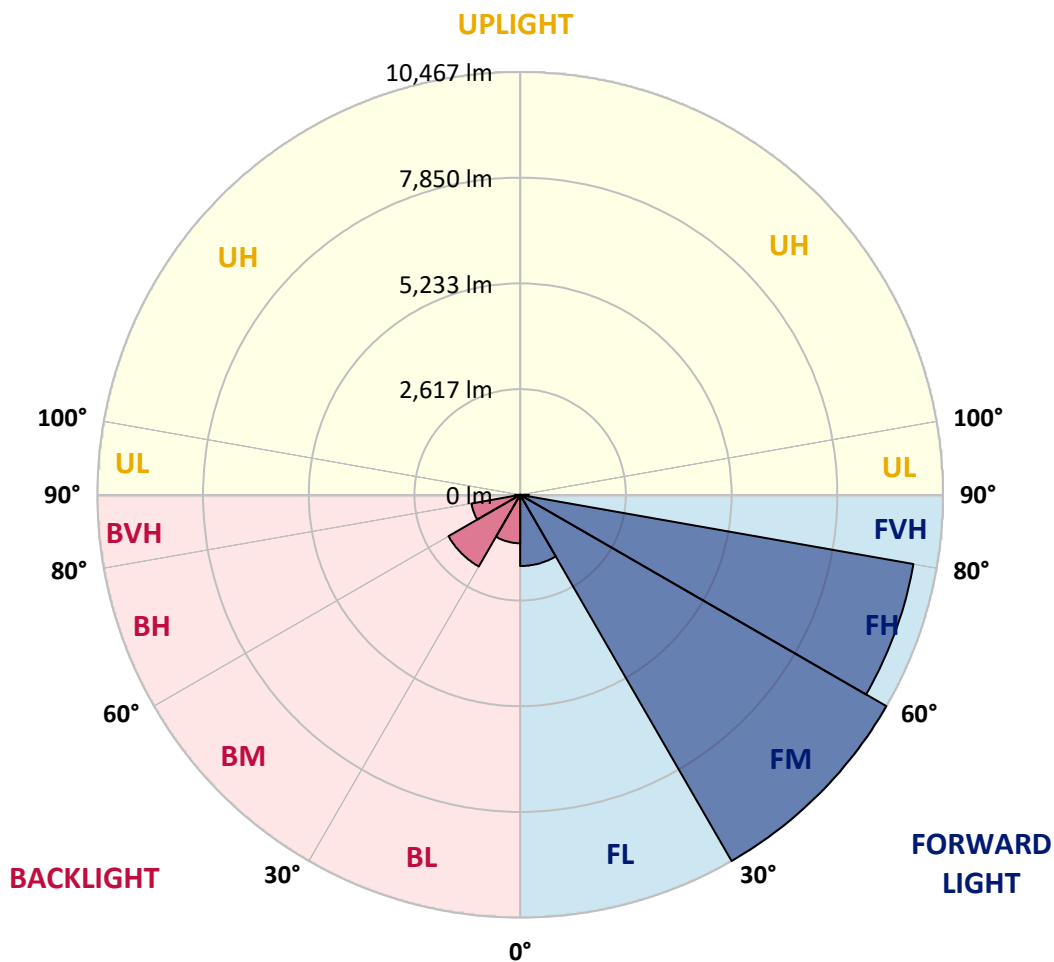
CATALOG NUMBER: GAN-AF-04-LED-U-T3R-7050-1200-ADJ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 1762.8 | 6.5 | | | |
| FM | (30°-60°) | 10466.8 | 38.9 | | | |
| FH | (60°-80°) | 9885.3 | 36.7 | | | G4/12000 |
| FVH | (80°-90°) | 215.1 | 0.8 | | | G2/225 |
| BL | (0°-30°) | 1198.3 | 4.4 | B3/2500 | | |
| BM | (30°-60°) | 2049.5 | 7.6 | B2/2500 | | |
| BH | (60°-80°) | 1225.3 | 4.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 127.9 | 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° | 3837.8 | 3837.8 | 3837.8 | 3837.8 | 3837.8 | 3837.8 | 3837.8 | 3837.8 | 3837.8 | 3837.8 | 3837.8 |
| 2.5° | 3395.0 | 3417.9 | 3437.0 | 3454.8 | 3490.4 | 3548.9 | 3616.4 | 3671.1 | 3750.0 | 3765.3 | 3807.3 |
| 5° | 3083.2 | 3083.2 | 3098.5 | 3125.2 | 3173.6 | 3261.4 | 3353.0 | 3475.1 | 3646.9 | 3687.6 | 3799.6 |
| 7.5° | 2931.8 | 2933.1 | 2942.0 | 2964.9 | 3006.9 | 3087.0 | 3187.6 | 3331.3 | 3564.2 | 3631.7 | 3822.5 |
| 10° | 2987.8 | 2975.1 | 2956.0 | 2944.5 | 2950.9 | 2998.0 | 3093.4 | 3253.7 | 3513.3 | 3599.8 | 3873.4 |
| 12.5° | 3300.8 | 3276.6 | 3210.5 | 3122.7 | 3038.7 | 3004.3 | 3060.3 | 3216.8 | 3491.7 | 3592.2 | 3940.9 |
| 15° | 3812.3 | 3802.2 | 3678.7 | 3496.8 | 3293.2 | 3122.7 | 3084.5 | 3202.8 | 3494.2 | 3601.1 | 4021.0 |
| 17.5° | 4453.7 | 4439.7 | 4276.8 | 4012.1 | 3680.0 | 3347.9 | 3169.7 | 3214.3 | 3503.1 | 3616.4 | 4098.7 |
| 20° | 5101.4 | 5058.1 | 4882.5 | 4566.9 | 4140.6 | 3654.6 | 3311.0 | 3243.5 | 3514.6 | 3632.9 | 4180.1 |
| 22.5° | 5584.9 | 5549.3 | 5391.5 | 5084.8 | 4593.6 | 4009.6 | 3500.6 | 3294.4 | 3551.5 | 3681.3 | 4280.6 |
| 25° | 6009.9 | 6012.5 | 5855.9 | 5559.5 | 5051.7 | 4386.2 | 3744.9 | 3430.6 | 3645.7 | 3780.5 | 4418.0 |
| 27.5° | 6535.5 | 6504.9 | 6358.6 | 6064.6 | 5504.7 | 4766.7 | 4040.1 | 3617.7 | 3785.6 | 3921.8 | 4598.7 |
| 30° | 7164.1 | 7142.4 | 6973.2 | 6639.8 | 6007.4 | 5175.2 | 4377.3 | 3835.3 | 3966.3 | 4107.6 | 4835.4 |
| 32.5° | 7903.4 | 7893.2 | 7717.6 | 7288.8 | 6587.6 | 5656.2 | 4773.1 | 4122.8 | 4236.1 | 4382.4 | 5175.2 |
| 35° | 8771.2 | 8772.5 | 8565.1 | 8049.7 | 7222.6 | 6216.1 | 5222.3 | 4493.1 | 4564.4 | 4717.1 | 5579.8 |
| 37.5° | 9305.6 | 9370.5 | 9292.9 | 8767.4 | 7941.5 | 6842.1 | 5805.0 | 4984.3 | 4938.5 | 5092.5 | 6013.7 |
| 40° | 9420.2 | 9499.1 | 9744.6 | 9477.4 | 8745.7 | 7531.8 | 6321.7 | 5456.4 | 5399.1 | 5587.5 | 6572.4 |
| 42.5° | 9259.8 | 9369.3 | 9888.4 | 10076.8 | 9599.6 | 8381.8 | 7016.4 | 6157.5 | 6085.0 | 6338.2 | 7267.1 |
| 45° | 9164.4 | 9245.8 | 9846.4 | 10388.5 | 10340.2 | 9342.5 | 7900.8 | 7038.1 | 7011.4 | 7343.5 | 8068.8 |
| 47.5° | 8999.0 | 9072.8 | 9650.5 | 10461.0 | 10775.3 | 10223.1 | 8963.3 | 8114.6 | 8166.8 | 8602.0 | 8973.5 |
| 50° | 9088.0 | 9118.6 | 9431.6 | 10276.5 | 10901.3 | 10868.2 | 10150.6 | 9361.6 | 9539.8 | 10083.1 | 9997.9 |
| 52.5° | 9075.3 | 9154.2 | 9406.2 | 9973.7 | 10917.9 | 11266.5 | 11320.0 | 10752.4 | 11127.8 | 11751.3 | 11134.2 |
| 55° | 7337.1 | 7482.2 | 9107.1 | 9897.3 | 10976.4 | 11657.2 | 12360.9 | 12218.3 | 12918.2 | 13644.8 | 12416.8 |
| 57.5° | 7006.3 | 7097.9 | 7998.8 | 10057.7 | 11286.9 | 12402.8 | 13518.8 | 13831.8 | 15002.5 | 15846.2 | 13979.5 |
| 60° | 6941.4 | 7054.6 | 7987.3 | 10253.6 | 11916.8 | 13618.1 | 15235.4 | 15785.1 | 17538.6 | 18462.4 | 15791.5 |
| 62.5° | 6739.0 | 6861.2 | 7912.3 | 10228.2 | 12811.3 | 15299.0 | 17433.0 | 17861.8 | 19943.6 | 20841.9 | 17307.0 |
| 65° | 6097.7 | 6212.2 | 7300.2 | 9817.2 | 13414.5 | 17093.2 | 20033.9 | 19765.4 | 21842.1 | 22517.8 | 18062.8 |
| 66° | 5658.7 | 5770.7 | 6817.9 | 9333.6 | 13274.5 | 17602.2 | 20955.2 | 20354.6 | 22267.1 | 22796.5 | 17915.2 |
| 67.5° | 4855.8 | 4943.6 | 5881.4 | 8250.8 | 12530.1 | 17744.7 | 21730.1 | 20797.4 | 22311.6 | 22498.7 | 17071.6 |
| 70° | 3067.9 | 3093.4 | 3822.5 | 5695.6 | 9485.1 | 15389.4 | 20550.5 | 19698.0 | 20471.6 | 19965.2 | 14311.6 |
| 72.5° | 1331.0 | 1322.1 | 1834.9 | 2897.4 | 5369.9 | 10326.2 | 16623.7 | 16253.4 | 16058.7 | 14903.3 | 10018.2 |
| 75° | 740.6 | 750.8 | 953.1 | 1345.0 | 2182.3 | 5072.1 | 10874.6 | 10406.3 | 8786.5 | 7497.4 | 4542.7 |
| 77.5° | 594.2 | 608.2 | 790.2 | 954.4 | 979.8 | 1768.7 | 5088.6 | 4140.6 | 2492.8 | 2000.3 | 1262.3 |
| 80° | 469.5 | 495.0 | 689.7 | 743.1 | 660.4 | 729.1 | 1644.0 | 1314.5 | 986.2 | 904.7 | 654.1 |
| 82.5° | 371.6 | 389.4 | 591.7 | 562.4 | 461.9 | 491.2 | 787.7 | 767.3 | 641.3 | 584.1 | 377.9 |
| 85° | 267.2 | 300.3 | 486.1 | 423.7 | 302.8 | 330.8 | 523.0 | 501.4 | 367.7 | 300.3 | 166.7 |
| 87.5° | 109.4 | 142.5 | 343.6 | 281.2 | 169.2 | 154.0 | 260.9 | 245.6 | 174.3 | 127.2 | 82.7 |
| 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° | 3837.8 | 3837.8 | 3837.8 | 3837.8 | 3837.8 | 3837.8 | 3837.8 | 3837.8 | 3837.8 | 3837.8 | 3837.8 |
| 2.5° | 3834.0 | 3864.5 | 3904.0 | 3928.1 | 3940.9 | 3949.8 | 3963.8 | 3962.5 | 3966.3 | 3967.6 | 3972.7 |
| 5° | 3859.4 | 3910.3 | 3967.6 | 3982.9 | 3982.9 | 3968.9 | 3954.9 | 3932.0 | 3923.1 | 3920.5 | 3923.1 |
| 7.5° | 3925.6 | 3981.6 | 4031.2 | 4013.4 | 3975.2 | 3919.2 | 3846.7 | 3783.1 | 3748.7 | 3737.3 | 3734.7 |
| 10° | 4009.6 | 4077.0 | 4097.4 | 4029.9 | 3918.0 | 3783.1 | 3639.3 | 3534.9 | 3475.1 | 3458.6 | 3453.5 |
| 12.5° | 4111.4 | 4175.0 | 4147.0 | 4004.5 | 3797.1 | 3579.5 | 3381.0 | 3214.3 | 3089.6 | 3050.1 | 3047.6 |
| 15° | 4223.4 | 4273.0 | 4175.0 | 3925.6 | 3616.4 | 3295.7 | 2942.0 | 2654.4 | 2499.1 | 2449.5 | 2445.7 |
| 17.5° | 4327.7 | 4353.1 | 4158.5 | 3788.2 | 3350.4 | 2831.3 | 2361.7 | 2140.3 | 2086.9 | 2099.6 | 2102.1 |
| 20° | 4416.8 | 4416.8 | 4102.5 | 3590.9 | 2931.8 | 2219.2 | 1922.7 | 1918.9 | 1957.1 | 1995.2 | 2002.9 |
| 22.5° | 4514.8 | 4456.2 | 4004.5 | 3312.3 | 2338.8 | 1815.8 | 1772.6 | 1808.2 | 1851.5 | 1893.4 | 1899.8 |
| 25° | 4635.6 | 4488.0 | 3868.3 | 2889.8 | 1838.7 | 1649.1 | 1665.7 | 1694.9 | 1716.6 | 1743.3 | 1747.1 |
| 27.5° | 4770.5 | 4528.8 | 3688.9 | 2308.3 | 1595.7 | 1544.8 | 1557.5 | 1567.7 | 1565.1 | 1575.3 | 1577.9 |
| 30° | 4932.1 | 4575.8 | 3443.3 | 1804.4 | 1495.2 | 1455.7 | 1432.8 | 1423.9 | 1423.9 | 1440.4 | 1446.8 |
| 32.5° | 5148.4 | 4645.8 | 3090.9 | 1546.1 | 1446.8 | 1392.1 | 1318.3 | 1285.2 | 1297.9 | 1353.9 | 1366.6 |
| 35° | 5386.4 | 4720.9 | 2613.7 | 1458.3 | 1436.6 | 1362.8 | 1248.3 | 1187.2 | 1188.5 | 1240.7 | 1257.2 |
| 37.5° | 5646.0 | 4816.3 | 2090.7 | 1441.7 | 1459.5 | 1364.1 | 1211.4 | 1127.4 | 1093.1 | 1093.1 | 1099.4 |
| 40° | 5978.1 | 4914.3 | 1692.4 | 1453.2 | 1507.9 | 1379.4 | 1192.3 | 1080.3 | 983.6 | 986.2 | 991.3 |
| 42.5° | 6410.7 | 4998.3 | 1478.6 | 1477.3 | 1566.4 | 1399.7 | 1191.0 | 1018.0 | 934.0 | 991.3 | 1043.4 |
| 45° | 6891.7 | 5040.3 | 1384.5 | 1499.0 | 1613.5 | 1412.5 | 1170.7 | 1007.8 | 940.4 | 1110.9 | 1210.1 |
| 47.5° | 7445.3 | 5016.1 | 1332.3 | 1506.6 | 1625.0 | 1412.5 | 1147.8 | 1032.0 | 984.9 | 1286.5 | 1402.3 |
| 50° | 8052.2 | 4946.1 | 1281.4 | 1491.3 | 1621.1 | 1409.9 | 1169.4 | 1056.2 | 1001.4 | 1317.0 | 1397.2 |
| 52.5° | 8766.1 | 4887.6 | 1227.9 | 1458.3 | 1594.4 | 1395.9 | 1194.9 | 1046.0 | 949.3 | 1197.4 | 1253.4 |
| 55° | 9580.5 | 4904.1 | 1168.1 | 1411.2 | 1552.4 | 1369.2 | 1186.0 | 1005.3 | 894.6 | 1054.9 | 1089.2 |
| 57.5° | 10621.4 | 5101.4 | 1096.9 | 1351.4 | 1495.2 | 1324.7 | 1154.1 | 986.2 | 878.0 | 956.9 | 977.3 |
| 60° | 11783.2 | 5444.9 | 1007.8 | 1291.6 | 1423.9 | 1253.4 | 1130.0 | 995.1 | 885.6 | 949.3 | 959.4 |
| 62.5° | 12635.7 | 5644.7 | 931.5 | 1203.8 | 1327.2 | 1174.5 | 1099.4 | 1006.5 | 906.0 | 976.0 | 973.4 |
| 65° | 12867.3 | 5316.4 | 836.0 | 1075.2 | 1196.1 | 1091.8 | 1061.2 | 1019.3 | 914.9 | 997.6 | 986.2 |
| 66° | 12542.8 | 4962.7 | 794.0 | 1015.4 | 1130.0 | 1051.1 | 1042.2 | 1018.0 | 911.1 | 1000.2 | 981.1 |
| 67.5° | 11755.2 | 4237.4 | 721.5 | 927.6 | 1024.3 | 990.0 | 1011.6 | 1006.5 | 900.9 | 997.6 | 970.9 |
| 70° | 9586.9 | 2891.1 | 617.2 | 772.4 | 852.6 | 871.6 | 953.1 | 965.8 | 867.8 | 953.1 | 894.6 |
| 72.5° | 6698.3 | 1761.1 | 545.9 | 599.3 | 689.7 | 743.1 | 872.9 | 909.8 | 823.3 | 832.2 | 776.2 |
| 75° | 3237.2 | 935.3 | 495.0 | 464.5 | 535.7 | 621.0 | 776.2 | 833.5 | 753.3 | 696.0 | 675.7 |
| 77.5° | 1009.1 | 571.3 | 419.9 | 374.1 | 419.9 | 501.4 | 649.0 | 730.4 | 670.6 | 582.8 | 575.2 |
| 80° | 542.1 | 419.9 | 323.2 | 300.3 | 332.1 | 393.2 | 510.3 | 609.5 | 576.4 | 523.0 | 467.0 |
| 82.5° | 357.6 | 272.3 | 239.2 | 232.9 | 253.2 | 300.3 | 379.2 | 505.2 | 505.2 | 447.9 | 325.8 |
| 85° | 184.5 | 166.7 | 164.1 | 164.1 | 176.9 | 199.8 | 258.3 | 389.4 | 414.8 | 236.7 | 196.0 |
| 87.5° | 91.6 | 95.4 | 89.1 | 92.9 | 99.3 | 98.0 | 123.4 | 196.0 | 234.1 | 143.8 | 119.6 |
| 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)