

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: P194084

Luminaire Tested: **GAN-AF-06-LED-U-T4FT-8030-1200-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194084
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
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-T4FT-8030-1200-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1200mA 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: 32060 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

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

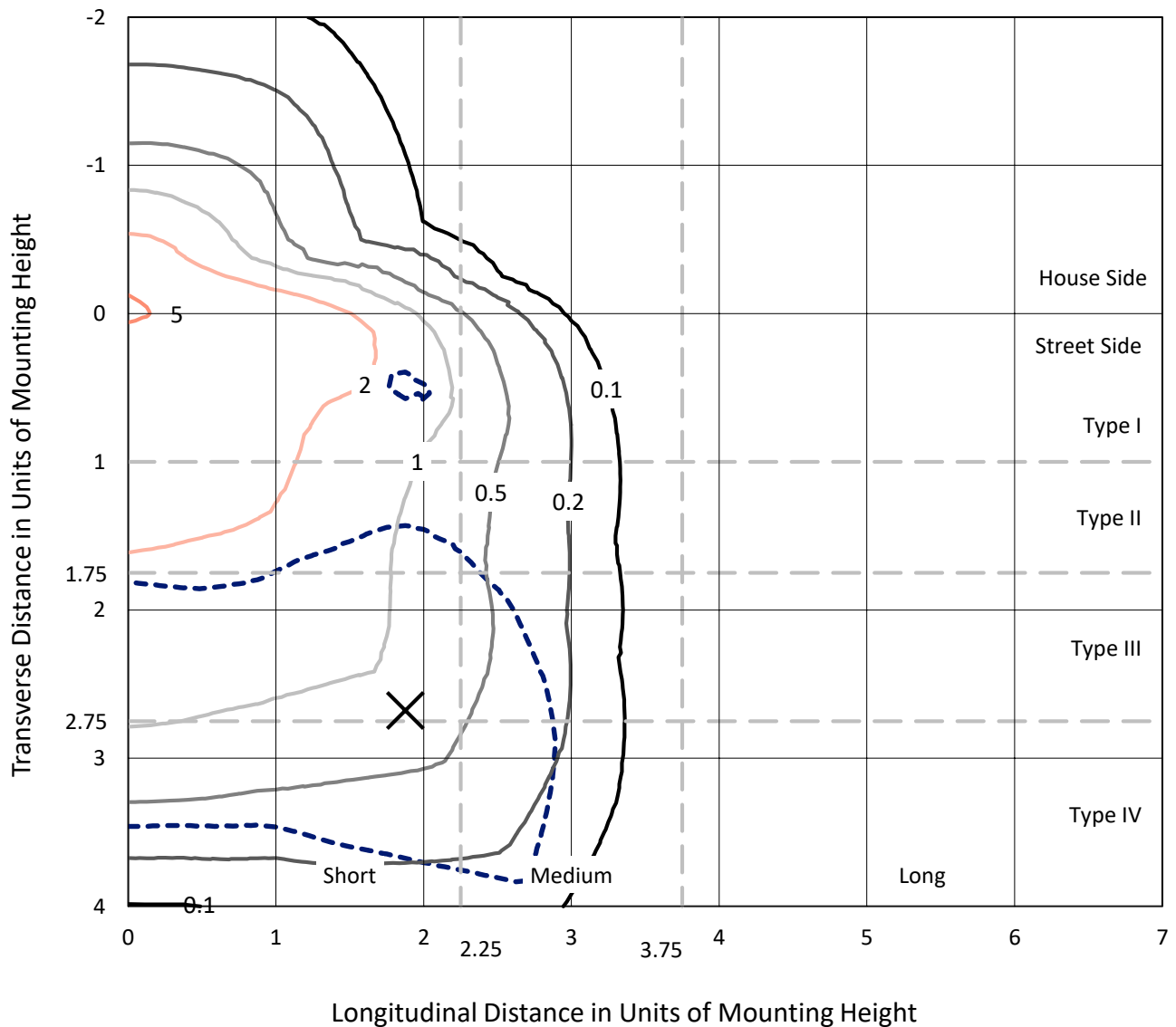


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

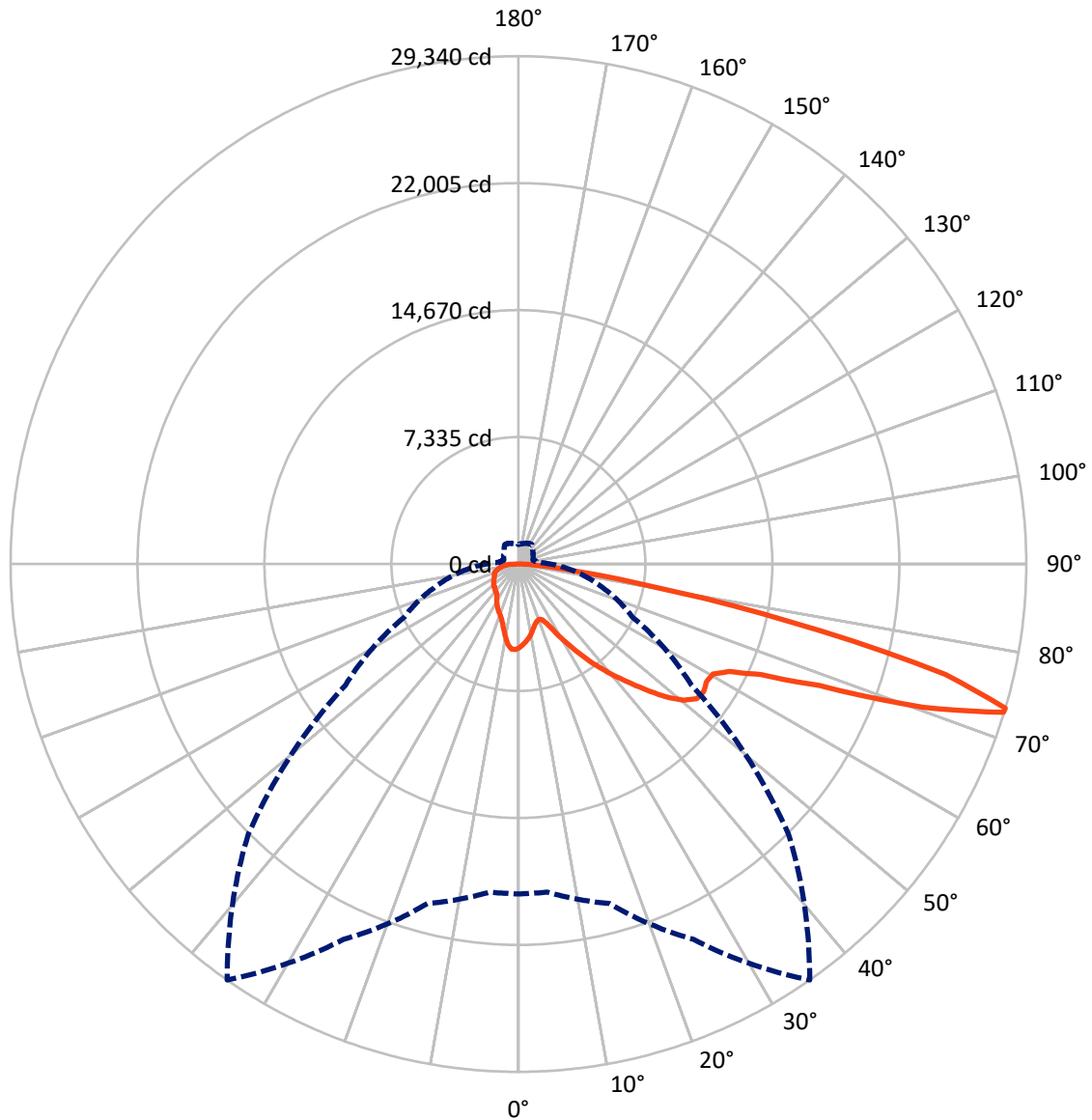


Based on 30 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6114.7 | 0.0 | 6114.7 |
| | % Fixture | 19.1 | 0.0 | 19.1 |
| Street Side | Lumens | 25945.3 | 0.0 | 25945.3 |
| | % Fixture | 80.9 | 0.0 | 80.9 |
| Total | Lumens | 32060.0 | 0.0 | 32060.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 438.1 | 1.4 |
| 10°-20° | 1093.3 | 3.4 |
| 20°-30° | 1767.5 | 5.5 |
| 30°-40° | 2963.9 | 9.2 |
| 40°-50° | 4568.7 | 14.3 |
| 50°-60° | 6129.3 | 19.1 |
| 60°-70° | 8165.5 | 25.5 |
| 70°-80° | 6227.8 | 19.4 |
| 80°-90° | 705.9 | 2.2 |
| 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° | 32060.0 | 100.0 |
| 0°-180° | 32060.0 | 100.0 |



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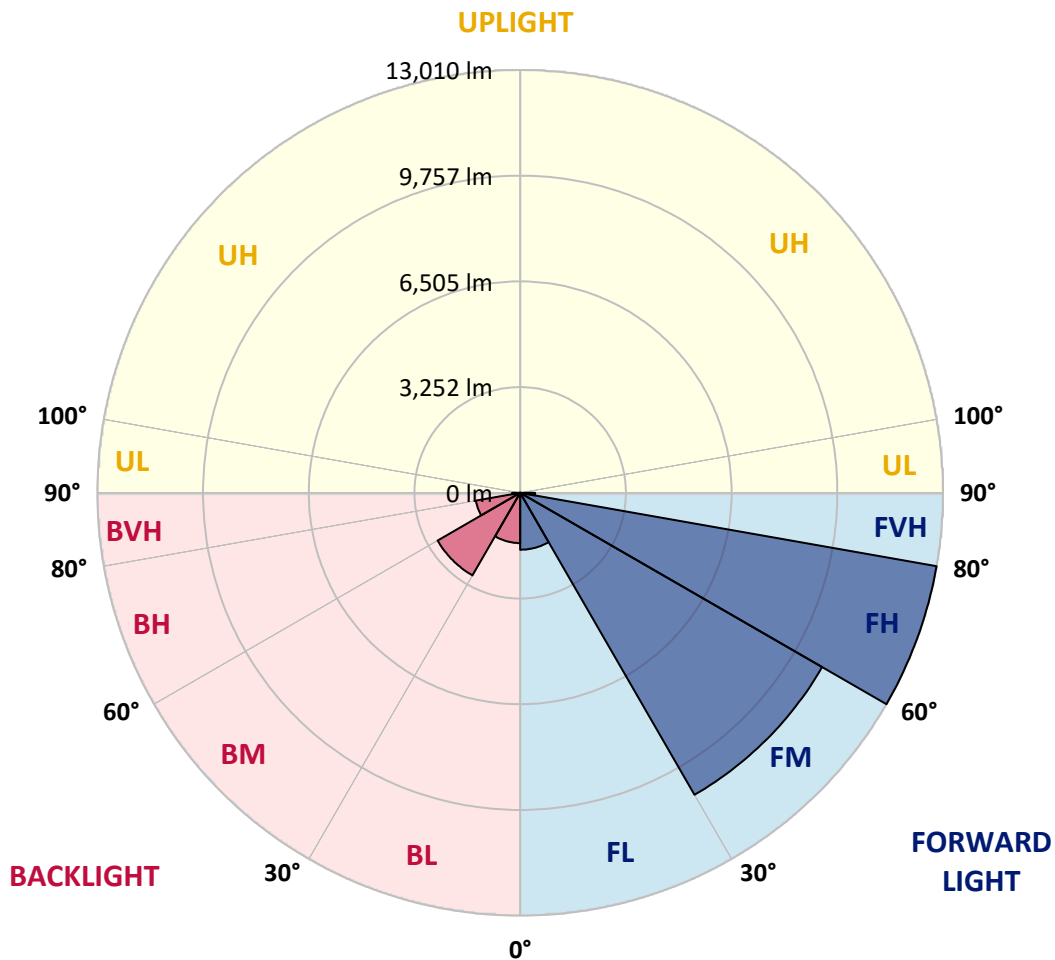
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1751.6 | 5.5 | | | |
| FM | (30°-60°) | 10727.5 | 33.5 | | | |
| FH | (60°-80°) | 13009.9 | 40.6 | | | G5 |
| FVH | (80°-90°) | 456.3 | 1.4 | | | G3/500 |
| BL | (0°-30°) | 1547.3 | 4.8 | B3/2500 | | |
| BM | (30°-60°) | 2934.4 | 9.2 | B3/5000 | | |
| BH | (60°-80°) | 1383.4 | 4.3 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 249.6 | 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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4838.8 | 4838.8 | 4838.8 | 4838.8 | 4838.8 | 4838.8 | 4838.8 | 4838.8 | 4838.8 | 4838.8 | 4838.8 |
| 2.5° | 4647.9 | 4657.2 | 4646.4 | 4660.3 | 4683.4 | 4708.0 | 4724.9 | 4749.6 | 4777.3 | 4815.8 | 4825.0 |
| 5° | 4429.3 | 4443.2 | 4443.2 | 4467.8 | 4512.5 | 4552.5 | 4589.4 | 4629.5 | 4688.0 | 4754.2 | 4780.3 |
| 7.5° | 4189.2 | 4196.9 | 4210.7 | 4247.7 | 4312.3 | 4369.3 | 4421.6 | 4486.3 | 4566.3 | 4654.1 | 4700.3 |
| 10° | 3899.7 | 3910.5 | 3932.0 | 3984.4 | 4072.1 | 4150.7 | 4226.1 | 4315.4 | 4417.0 | 4526.3 | 4584.8 |
| 12.5° | 3695.0 | 3691.9 | 3701.1 | 3739.6 | 3816.6 | 3912.0 | 4021.3 | 4135.3 | 4260.0 | 4387.8 | 4458.6 |
| 15° | 3625.7 | 3608.7 | 3573.3 | 3564.1 | 3605.7 | 3701.1 | 3827.4 | 3967.5 | 4116.8 | 4270.8 | 4358.5 |
| 17.5° | 3668.8 | 3639.5 | 3542.5 | 3471.7 | 3465.6 | 3537.9 | 3671.9 | 3828.9 | 4001.3 | 4189.2 | 4298.5 |
| 20° | 3939.7 | 3870.5 | 3631.8 | 3467.1 | 3410.1 | 3445.5 | 3562.6 | 3728.8 | 3932.0 | 4181.5 | 4321.6 |
| 22.5° | 4587.9 | 4486.3 | 3979.8 | 3673.4 | 3481.0 | 3437.8 | 3525.6 | 3702.7 | 3939.7 | 4276.9 | 4455.5 |
| 25° | 5531.7 | 5386.9 | 4577.1 | 4187.6 | 3790.4 | 3561.0 | 3581.0 | 3762.7 | 4049.1 | 4498.6 | 4714.1 |
| 27.5° | 6276.8 | 6182.9 | 5357.7 | 4912.7 | 4353.9 | 3893.6 | 3761.2 | 3913.6 | 4272.3 | 4861.9 | 5082.1 |
| 30° | 6720.2 | 6663.2 | 6192.1 | 5734.9 | 5072.9 | 4423.2 | 4106.0 | 4196.9 | 4621.8 | 5365.4 | 5547.0 |
| 32.5° | 7234.4 | 7200.5 | 6969.6 | 6549.3 | 5848.8 | 5119.1 | 4652.6 | 4620.2 | 5089.8 | 5970.4 | 6053.6 |
| 35° | 7767.1 | 7756.3 | 7620.8 | 7319.1 | 6681.7 | 6036.6 | 5377.7 | 5159.1 | 5599.4 | 6598.6 | 6546.2 |
| 37.5° | 8262.8 | 8244.4 | 8165.8 | 7990.3 | 7553.1 | 7022.0 | 6116.7 | 5711.8 | 6149.0 | 7199.0 | 6966.5 |
| 40° | 9175.8 | 9031.1 | 8761.7 | 8629.3 | 8433.7 | 7851.8 | 6703.3 | 6227.5 | 6718.7 | 7771.7 | 7329.9 |
| 42.5° | 10288.9 | 10053.4 | 9551.5 | 9369.8 | 9342.1 | 8506.1 | 7103.5 | 6727.9 | 7292.9 | 8339.8 | 7687.0 |
| 45° | 11164.9 | 10943.2 | 10510.6 | 10281.2 | 10382.8 | 9098.8 | 7505.4 | 7262.1 | 7884.1 | 8935.6 | 8055.0 |
| 47.5° | 12099.4 | 11751.5 | 11178.8 | 11248.1 | 11469.8 | 9659.2 | 7914.9 | 7836.4 | 8532.3 | 9602.3 | 8512.2 |
| 50° | 12133.3 | 11867.0 | 11616.0 | 12030.2 | 12375.0 | 10175.0 | 8427.6 | 8438.4 | 9325.1 | 10441.3 | 9120.4 |
| 52.5° | 11429.7 | 11372.8 | 11771.5 | 12422.7 | 12920.0 | 10583.0 | 9011.1 | 9060.3 | 10339.7 | 11405.1 | 9788.5 |
| 55° | 11183.4 | 11118.7 | 11579.1 | 12285.7 | 12993.9 | 10920.1 | 9643.8 | 9733.1 | 11566.7 | 12421.2 | 10439.8 |
| 57.5° | 11783.8 | 11640.6 | 11671.4 | 12221.1 | 12813.8 | 11289.6 | 10333.6 | 10513.7 | 12900.0 | 13309.5 | 10858.5 |
| 60° | 13461.9 | 13155.6 | 12573.6 | 12559.8 | 12910.8 | 11843.9 | 11131.0 | 11351.2 | 14285.6 | 13734.5 | 10695.4 |
| 62.5° | 15815.9 | 15509.6 | 14419.6 | 13709.8 | 13657.5 | 12758.4 | 12110.2 | 12168.7 | 15086.2 | 13158.7 | 9699.3 |
| 65° | 18363.9 | 18089.9 | 16872.1 | 15869.8 | 15386.4 | 14273.3 | 13247.9 | 12533.6 | 14824.5 | 11574.4 | 7956.5 |
| 67.5° | 21456.9 | 21162.8 | 20115.9 | 19190.7 | 18725.7 | 16718.1 | 14047.0 | 12184.1 | 13163.3 | 8966.4 | 5719.5 |
| 70° | 23620.0 | 23319.8 | 22907.2 | 23656.9 | 24794.7 | 20245.3 | 14150.1 | 10763.1 | 9831.7 | 5959.7 | 3442.5 |
| 72.5° | 20798.0 | 20657.9 | 21410.7 | 24568.4 | 29307.1 | 22385.3 | 12790.7 | 7836.4 | 5710.2 | 3163.8 | 1992.2 |
| 73° | 19055.2 | 19024.4 | 20308.4 | 23929.4 | 29339.5 | 22055.8 | 12194.9 | 7283.7 | 4897.4 | 2798.9 | 1821.3 |
| 75° | 8604.6 | 8852.5 | 11666.8 | 18277.7 | 25490.6 | 18174.6 | 8583.1 | 4178.4 | 2766.6 | 1933.7 | 1374.8 |
| 77.5° | 2067.6 | 2153.9 | 3650.3 | 8680.1 | 16097.7 | 10830.8 | 3888.9 | 2066.1 | 1769.0 | 1365.6 | 1003.8 |
| 80° | 880.6 | 909.9 | 1405.6 | 3206.9 | 7579.3 | 4361.6 | 1792.1 | 1384.1 | 1224.0 | 953.0 | 703.6 |
| 82.5° | 489.6 | 520.4 | 797.5 | 1454.9 | 3059.1 | 1487.2 | 1093.1 | 963.8 | 805.2 | 574.3 | 457.3 |
| 85° | 277.1 | 294.1 | 466.5 | 812.9 | 1296.3 | 597.4 | 654.3 | 640.5 | 454.2 | 295.6 | 224.8 |
| 87.5° | 130.9 | 141.6 | 224.8 | 377.2 | 508.1 | 234.0 | 332.5 | 366.4 | 284.8 | 180.1 | 117.0 |
| 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):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4838.8 | 4838.8 | 4838.8 | 4838.8 | 4838.8 | 4838.8 | 4838.8 | 4838.8 | 4838.8 | 4838.8 |
| 2.5° | 4835.8 | 4863.5 | 4895.8 | 4912.7 | 4928.1 | 4946.6 | 4965.1 | 4965.1 | 4968.2 | 4969.7 |
| 5° | 4801.9 | 4858.9 | 4909.7 | 4931.2 | 4935.8 | 4935.8 | 4931.2 | 4906.6 | 4885.0 | 4894.3 |
| 7.5° | 4731.1 | 4814.2 | 4857.3 | 4849.6 | 4791.1 | 4723.4 | 4666.4 | 4597.1 | 4561.7 | 4555.6 |
| 10° | 4629.5 | 4724.9 | 4732.6 | 4655.6 | 4510.9 | 4366.2 | 4246.1 | 4129.1 | 4073.7 | 4059.8 |
| 12.5° | 4517.1 | 4604.8 | 4555.6 | 4397.0 | 4164.5 | 3953.6 | 3801.2 | 3682.6 | 3630.3 | 3616.4 |
| 15° | 4426.2 | 4486.3 | 4361.6 | 4112.2 | 3819.7 | 3596.4 | 3470.2 | 3382.4 | 3345.5 | 3334.7 |
| 17.5° | 4378.5 | 4390.8 | 4163.0 | 3825.8 | 3514.8 | 3328.5 | 3250.0 | 3208.5 | 3194.6 | 3186.9 |
| 20° | 4401.6 | 4315.4 | 3973.6 | 3559.5 | 3265.4 | 3134.6 | 3116.1 | 3105.3 | 3102.2 | 3097.6 |
| 22.5° | 4517.1 | 4292.3 | 3799.6 | 3307.0 | 3046.8 | 2989.8 | 3005.2 | 3003.7 | 3000.6 | 2997.5 |
| 25° | 4723.4 | 4312.3 | 3630.3 | 3066.8 | 2863.6 | 2851.3 | 2879.0 | 2879.0 | 2866.7 | 2866.7 |
| 27.5° | 4995.9 | 4353.9 | 3440.9 | 2839.0 | 2697.3 | 2698.9 | 2720.4 | 2714.3 | 2700.4 | 2691.2 |
| 30° | 5328.4 | 4380.1 | 3219.2 | 2634.2 | 2541.8 | 2535.7 | 2541.8 | 2515.6 | 2474.1 | 2471.0 |
| 32.5° | 5668.7 | 4347.7 | 2962.1 | 2452.5 | 2377.1 | 2363.2 | 2358.6 | 2321.7 | 2273.9 | 2260.1 |
| 35° | 5976.6 | 4229.2 | 2700.4 | 2307.8 | 2220.1 | 2189.3 | 2210.8 | 2198.5 | 2155.4 | 2144.6 |
| 37.5° | 6201.4 | 4009.0 | 2464.8 | 2180.0 | 2107.7 | 2100.0 | 2113.8 | 2118.4 | 2067.6 | 2056.9 |
| 40° | 6352.2 | 3710.3 | 2263.2 | 2072.3 | 2086.1 | 2056.9 | 2010.7 | 1978.3 | 1962.9 | 1958.3 |
| 42.5° | 6473.9 | 3399.4 | 2093.8 | 2021.4 | 2090.7 | 2006.1 | 1906.0 | 1853.6 | 1881.3 | 1893.7 |
| 45° | 6614.0 | 3096.1 | 1952.2 | 1958.3 | 2067.6 | 1947.5 | 1833.6 | 1782.8 | 1793.6 | 1796.7 |
| 47.5° | 6806.4 | 2726.6 | 1799.8 | 1856.7 | 1990.7 | 1907.5 | 1789.0 | 1716.6 | 1665.8 | 1642.7 |
| 50° | 7072.8 | 2289.3 | 1641.2 | 1742.8 | 1915.2 | 1878.3 | 1719.7 | 1642.7 | 1548.8 | 1527.2 |
| 52.5° | 7257.5 | 1881.3 | 1510.3 | 1647.3 | 1847.5 | 1819.8 | 1664.3 | 1564.2 | 1465.7 | 1447.2 |
| 55° | 7157.4 | 1562.7 | 1396.4 | 1541.1 | 1758.2 | 1747.4 | 1618.1 | 1484.1 | 1407.2 | 1391.8 |
| 57.5° | 6657.1 | 1361.0 | 1308.6 | 1441.0 | 1648.9 | 1685.8 | 1556.5 | 1416.4 | 1361.0 | 1350.2 |
| 60° | 5702.5 | 1234.7 | 1253.2 | 1373.3 | 1559.6 | 1624.2 | 1494.9 | 1379.4 | 1342.5 | 1334.8 |
| 62.5° | 4424.7 | 1150.1 | 1211.6 | 1324.0 | 1490.3 | 1581.1 | 1461.0 | 1374.8 | 1361.0 | 1351.7 |
| 65° | 3170.0 | 1082.3 | 1167.0 | 1274.8 | 1427.2 | 1541.1 | 1448.7 | 1368.7 | 1371.8 | 1364.1 |
| 67.5° | 2153.9 | 1022.3 | 1113.1 | 1219.3 | 1365.6 | 1505.7 | 1431.8 | 1347.1 | 1385.6 | 1376.4 |
| 70° | 1507.2 | 963.8 | 1050.0 | 1148.5 | 1288.6 | 1456.4 | 1401.0 | 1314.8 | 1311.7 | 1274.8 |
| 72.5° | 1176.2 | 886.8 | 963.8 | 1050.0 | 1190.1 | 1387.1 | 1339.4 | 1242.4 | 1191.6 | 1153.1 |
| 73° | 1122.3 | 868.3 | 942.2 | 1028.4 | 1168.5 | 1370.2 | 1322.5 | 1222.4 | 1165.5 | 1130.0 |
| 75° | 928.4 | 788.3 | 856.0 | 933.0 | 1076.2 | 1290.2 | 1239.3 | 1131.6 | 1059.2 | 1037.7 |
| 77.5° | 729.8 | 674.3 | 739.0 | 808.3 | 948.4 | 1173.1 | 1116.2 | 1013.0 | 973.0 | 954.5 |
| 80° | 540.4 | 558.9 | 615.8 | 677.4 | 822.1 | 1048.4 | 997.6 | 894.5 | 1073.1 | 1028.4 |
| 82.5° | 380.3 | 423.4 | 475.7 | 531.1 | 689.7 | 926.8 | 865.2 | 759.0 | 785.2 | 652.8 |
| 85° | 224.8 | 277.1 | 326.4 | 374.1 | 497.3 | 768.2 | 714.4 | 605.0 | 495.7 | 472.6 |
| 87.5° | 130.9 | 154.0 | 167.8 | 217.1 | 341.8 | 578.9 | 503.4 | 448.0 | 257.1 | 174.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)