

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: P268553

Luminaire Tested: **GAN-AF-05-LED-U-T4FT-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268553
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-05-LED-U-T4FT-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1050mA 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: 26002.4 lumens
Efficiency: N/A
Efficacy: 93.2 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 - G4

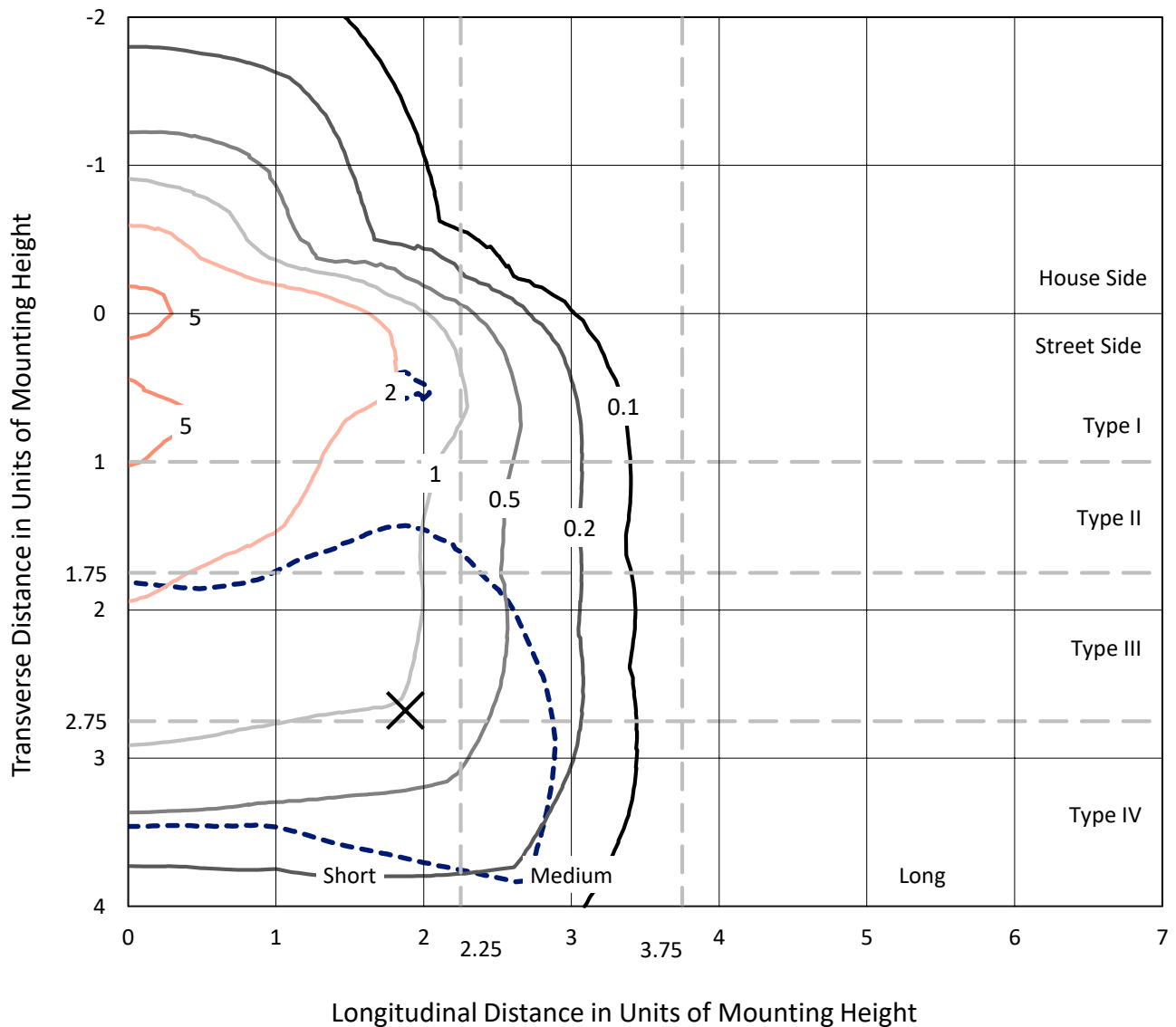
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

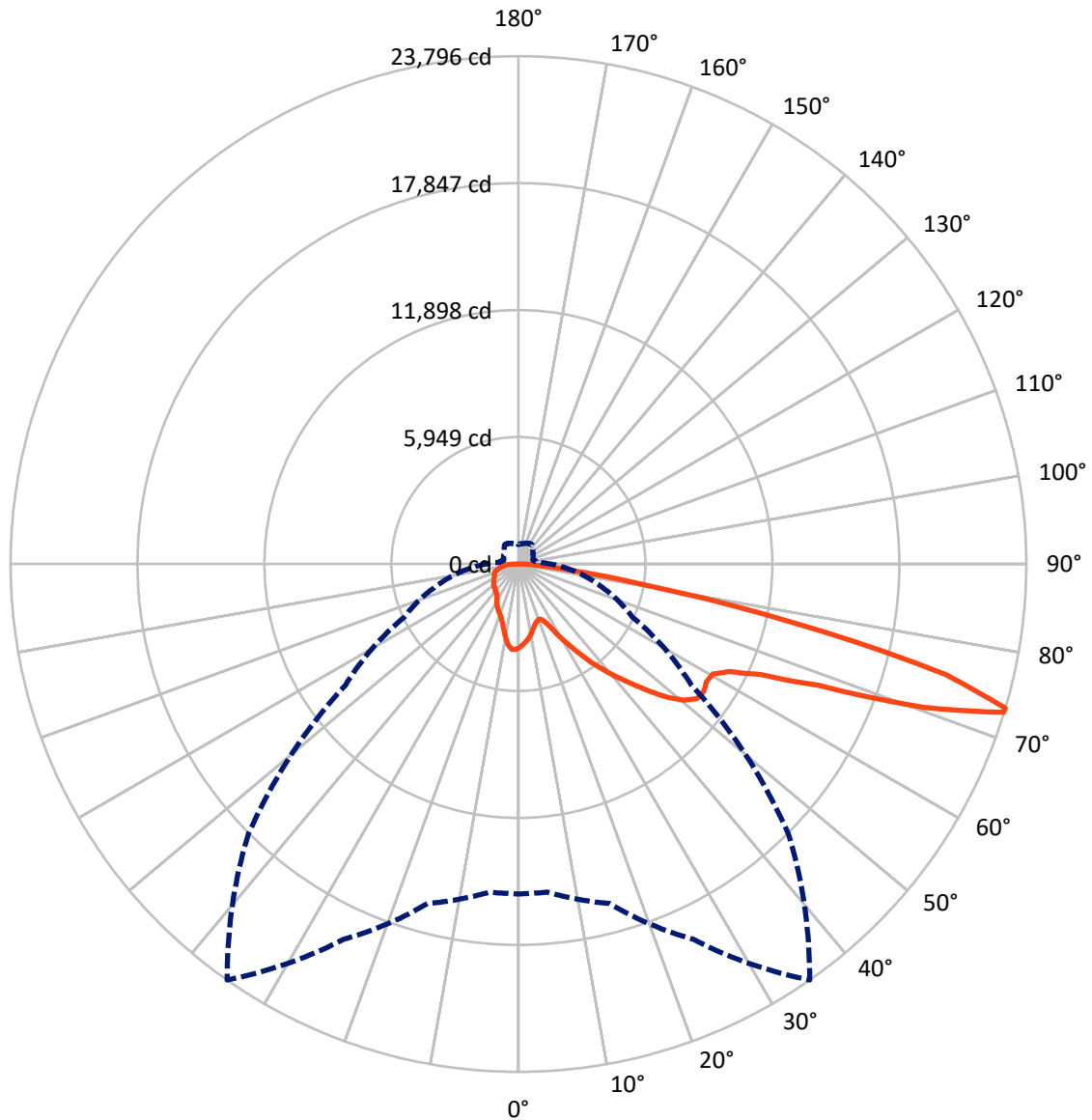
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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 | 4959.4 | 0.0 | 4959.4 |
| | % Fixture | 19.1 | 0.0 | 19.1 |
| Street Side | Lumens | 21043.0 | 0.0 | 21043.0 |
| | % Fixture | 80.9 | 0.0 | 80.9 |
| Total | Lumens | 26002.4 | 0.0 | 26002.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 355.3 | 1.4 |
| 10°-20° | 886.7 | 3.4 |
| 20°-30° | 1433.5 | 5.5 |
| 30°-40° | 2403.9 | 9.2 |
| 40°-50° | 3705.4 | 14.3 |
| 50°-60° | 4971.2 | 19.1 |
| 60°-70° | 6622.7 | 25.5 |
| 70°-80° | 5051.1 | 19.4 |
| 80°-90° | 572.5 | 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° | 26002.4 | 100.0 |
| 0°-180° | 26002.4 | 100.0 |



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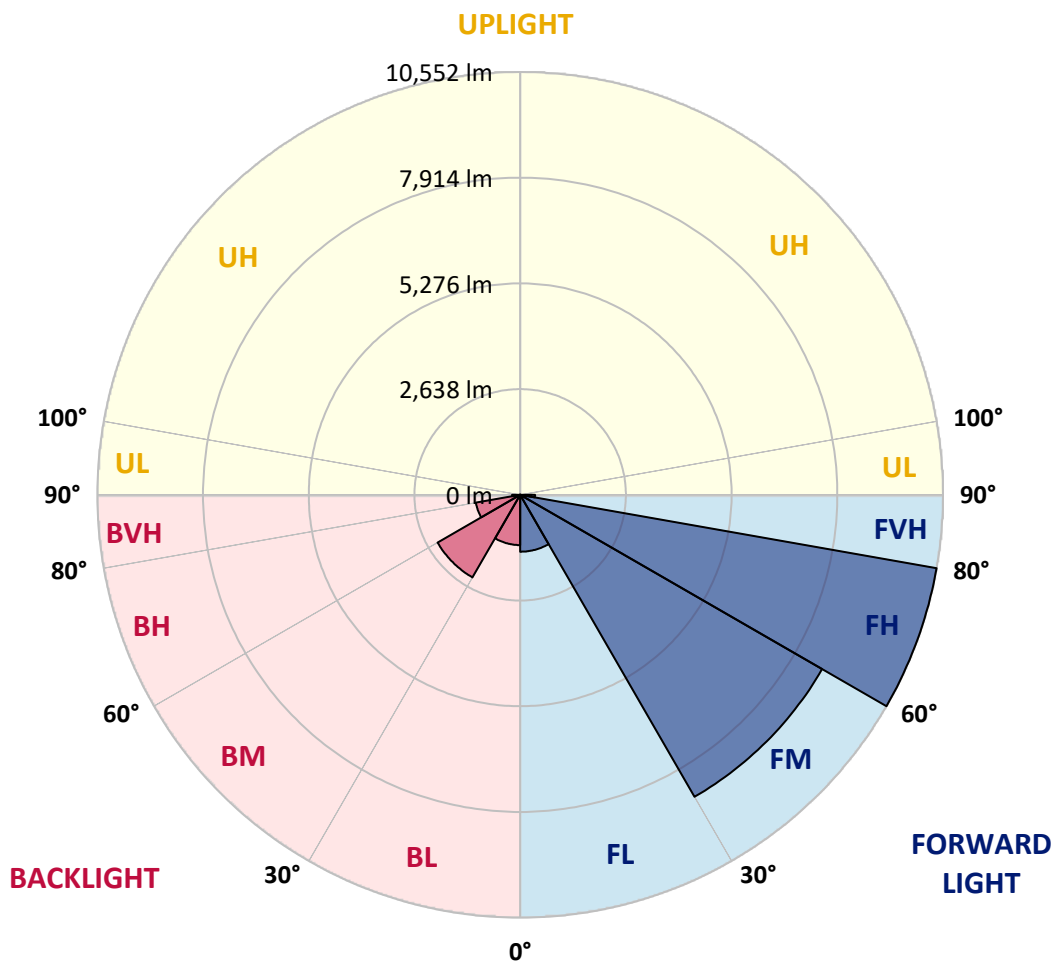
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 1420.6 | 5.5 | | | |
| FM | (30°-60°) | 8700.6 | 33.5 | | | |
| FH | (60°-80°) | 10551.8 | 40.6 | | | G4/12000 |
| FVH | (80°-90°) | 370.1 | 1.4 | | | G3/500 |
| BL | (0°-30°) | 1255.0 | 4.8 | B3/2500 | | |
| BM | (30°-60°) | 2379.9 | 9.2 | B2/2500 | | |
| BH | (60°-80°) | 1122.0 | 4.3 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 202.4 | 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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0° | 3924.5 | 3924.5 | 3924.5 | 3924.5 | 3924.5 | 3924.5 | 3924.5 | 3924.5 | 3924.5 | 3924.5 | 3924.5 |
| 2.5° | 3769.7 | 3777.3 | 3768.5 | 3779.7 | 3798.5 | 3818.4 | 3832.2 | 3852.1 | 3874.6 | 3905.8 | 3913.3 |
| 5° | 3592.4 | 3603.7 | 3603.7 | 3623.7 | 3659.9 | 3692.4 | 3722.2 | 3754.7 | 3802.2 | 3855.9 | 3877.2 |
| 7.5° | 3397.6 | 3403.9 | 3415.0 | 3445.1 | 3497.6 | 3543.8 | 3586.2 | 3638.7 | 3703.5 | 3774.7 | 3812.1 |
| 10° | 3162.9 | 3171.6 | 3189.2 | 3231.6 | 3302.7 | 3366.4 | 3427.7 | 3500.1 | 3582.4 | 3671.2 | 3718.5 |
| 12.5° | 2996.8 | 2994.3 | 3001.7 | 3032.9 | 3095.5 | 3172.9 | 3261.6 | 3353.9 | 3455.2 | 3558.7 | 3616.1 |
| 15° | 2940.6 | 2926.9 | 2898.1 | 2890.7 | 2924.4 | 3001.7 | 3104.3 | 3217.8 | 3338.9 | 3463.9 | 3535.0 |
| 17.5° | 2975.5 | 2951.9 | 2873.1 | 2815.7 | 2810.7 | 2869.5 | 2978.2 | 3105.4 | 3245.2 | 3397.6 | 3486.3 |
| 20° | 3195.4 | 3139.1 | 2945.6 | 2812.1 | 2765.8 | 2794.4 | 2889.4 | 3024.2 | 3189.2 | 3391.5 | 3504.9 |
| 22.5° | 3721.0 | 3638.7 | 3227.8 | 2979.3 | 2823.3 | 2788.2 | 2859.5 | 3003.0 | 3195.4 | 3468.9 | 3613.6 |
| 25° | 4486.4 | 4369.0 | 3712.2 | 3396.4 | 3074.2 | 2888.2 | 2904.4 | 3051.7 | 3284.1 | 3648.6 | 3823.5 |
| 27.5° | 5090.9 | 5014.7 | 4345.5 | 3984.5 | 3531.2 | 3157.9 | 3050.6 | 3174.2 | 3465.0 | 3943.3 | 4121.9 |
| 30° | 5450.5 | 5404.3 | 5022.2 | 4651.3 | 4114.3 | 3587.4 | 3330.1 | 3403.9 | 3748.4 | 4351.6 | 4498.9 |
| 32.5° | 5867.5 | 5840.1 | 5652.8 | 5311.9 | 4743.7 | 4151.8 | 3773.5 | 3747.3 | 4128.2 | 4842.4 | 4909.7 |
| 35° | 6299.5 | 6290.8 | 6180.9 | 5936.2 | 5419.3 | 4896.0 | 4361.6 | 4184.2 | 4541.4 | 5351.8 | 5309.3 |
| 37.5° | 6701.6 | 6686.7 | 6622.9 | 6480.6 | 6126.0 | 5695.2 | 4961.0 | 4632.6 | 4987.2 | 5838.8 | 5650.2 |
| 40° | 7442.1 | 7324.7 | 7106.2 | 6998.8 | 6840.2 | 6368.3 | 5436.7 | 5050.9 | 5449.2 | 6303.2 | 5945.0 |
| 42.5° | 8344.9 | 8153.8 | 7746.8 | 7599.4 | 7576.9 | 6899.0 | 5761.4 | 5456.7 | 5915.0 | 6764.1 | 6234.5 |
| 45° | 9055.4 | 8875.6 | 8524.6 | 8338.5 | 8421.0 | 7379.7 | 6087.3 | 5889.9 | 6394.5 | 7247.3 | 6533.1 |
| 47.5° | 9813.4 | 9531.0 | 9066.7 | 9122.7 | 9302.6 | 7834.2 | 6419.4 | 6355.7 | 6920.2 | 7787.9 | 6904.0 |
| 50° | 9840.8 | 9624.7 | 9421.2 | 9757.1 | 10036.9 | 8252.5 | 6835.3 | 6843.9 | 7563.2 | 8468.5 | 7397.2 |
| 52.5° | 9270.1 | 9223.9 | 9547.4 | 10075.5 | 10478.8 | 8583.3 | 7308.5 | 7348.5 | 8386.0 | 9250.1 | 7939.0 |
| 55° | 9070.4 | 9017.8 | 9391.2 | 9964.4 | 10538.7 | 8856.7 | 7821.6 | 7894.0 | 9381.3 | 10074.2 | 8467.2 |
| 57.5° | 9557.2 | 9441.1 | 9466.2 | 9912.0 | 10392.8 | 9156.6 | 8381.0 | 8527.3 | 10462.6 | 10794.8 | 8806.9 |
| 60° | 10918.4 | 10669.9 | 10197.9 | 10186.6 | 10471.4 | 9606.0 | 9027.8 | 9206.4 | 11586.3 | 11139.4 | 8674.6 |
| 62.5° | 12827.5 | 12579.1 | 11695.0 | 11119.4 | 11076.9 | 10347.8 | 9822.1 | 9869.5 | 12235.8 | 10672.4 | 7866.5 |
| 65° | 14894.2 | 14671.8 | 13684.2 | 12871.3 | 12479.3 | 11576.4 | 10744.7 | 10165.4 | 12023.5 | 9387.5 | 6453.2 |
| 67.5° | 17402.8 | 17164.3 | 16315.0 | 15564.7 | 15187.6 | 13559.2 | 11392.8 | 9882.0 | 10676.1 | 7272.3 | 4638.8 |
| 70° | 19157.1 | 18913.6 | 18578.9 | 19187.1 | 20109.8 | 16419.9 | 11476.6 | 8729.5 | 7974.1 | 4833.6 | 2792.0 |
| 72.5° | 16868.3 | 16754.6 | 17365.2 | 19926.3 | 23769.7 | 18155.6 | 10373.9 | 6355.7 | 4631.3 | 2566.0 | 1615.8 |
| 73° | 15454.8 | 15429.7 | 16471.2 | 19408.2 | 23795.9 | 17888.5 | 9890.7 | 5907.4 | 3972.0 | 2270.0 | 1477.2 |
| 75° | 6978.8 | 7179.9 | 9462.4 | 14824.2 | 20674.2 | 14740.6 | 6961.3 | 3388.9 | 2243.8 | 1568.4 | 1115.1 |
| 77.5° | 1677.0 | 1746.8 | 2960.6 | 7039.9 | 13056.1 | 8784.3 | 3154.2 | 1675.7 | 1434.8 | 1107.6 | 814.1 |
| 80° | 714.2 | 738.0 | 1139.9 | 2601.0 | 6147.2 | 3537.4 | 1453.5 | 1122.5 | 992.6 | 772.9 | 570.7 |
| 82.5° | 397.1 | 422.1 | 646.8 | 1180.1 | 2481.1 | 1206.2 | 886.5 | 781.6 | 653.1 | 465.7 | 370.9 |
| 85° | 224.8 | 238.5 | 378.4 | 659.3 | 1051.3 | 484.5 | 530.7 | 519.4 | 368.3 | 239.8 | 182.3 |
| 87.5° | 106.1 | 114.9 | 182.3 | 306.0 | 412.1 | 189.8 | 269.8 | 297.2 | 231.0 | 146.2 | 95.0 |
| 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° | 3924.5 | 3924.5 | 3924.5 | 3924.5 | 3924.5 | 3924.5 | 3924.5 | 3924.5 | 3924.5 | 3924.5 |
| 2.5° | 3922.1 | 3944.5 | 3970.8 | 3984.5 | 3997.0 | 4012.0 | 4026.9 | 4026.9 | 4029.4 | 4030.8 |
| 5° | 3894.6 | 3940.9 | 3981.9 | 3999.6 | 4003.2 | 4003.2 | 3999.6 | 3979.5 | 3962.1 | 3969.5 |
| 7.5° | 3837.2 | 3904.7 | 3939.5 | 3933.3 | 3885.9 | 3830.9 | 3784.6 | 3728.5 | 3699.8 | 3694.8 |
| 10° | 3754.7 | 3832.2 | 3838.4 | 3775.9 | 3658.5 | 3541.2 | 3443.8 | 3348.9 | 3304.0 | 3292.7 |
| 12.5° | 3663.6 | 3734.8 | 3694.8 | 3566.2 | 3377.6 | 3206.6 | 3083.0 | 2986.9 | 2944.4 | 2933.1 |
| 15° | 3589.9 | 3638.7 | 3537.4 | 3335.1 | 3098.0 | 2916.8 | 2814.5 | 2743.3 | 2713.4 | 2704.5 |
| 17.5° | 3551.2 | 3561.2 | 3376.4 | 3102.9 | 2850.7 | 2699.6 | 2635.9 | 2602.2 | 2591.0 | 2584.8 |
| 20° | 3570.0 | 3500.1 | 3222.8 | 2887.0 | 2648.5 | 2542.4 | 2527.3 | 2518.6 | 2516.1 | 2512.3 |
| 22.5° | 3663.6 | 3481.3 | 3081.7 | 2682.1 | 2471.1 | 2425.0 | 2437.5 | 2436.2 | 2433.7 | 2431.2 |
| 25° | 3830.9 | 3497.6 | 2944.4 | 2487.3 | 2322.5 | 2312.5 | 2335.1 | 2335.1 | 2325.1 | 2325.1 |
| 27.5° | 4052.0 | 3531.2 | 2790.8 | 2302.5 | 2187.6 | 2188.9 | 2206.3 | 2201.3 | 2190.2 | 2182.7 |
| 30° | 4321.7 | 3552.4 | 2611.0 | 2136.4 | 2061.6 | 2056.6 | 2061.6 | 2040.3 | 2006.6 | 2004.1 |
| 32.5° | 4597.5 | 3526.2 | 2402.4 | 1989.1 | 1927.9 | 1916.8 | 1913.0 | 1882.9 | 1844.3 | 1833.0 |
| 35° | 4847.3 | 3430.1 | 2190.2 | 1871.8 | 1800.7 | 1775.6 | 1793.0 | 1783.0 | 1748.1 | 1739.4 |
| 37.5° | 5029.6 | 3251.5 | 1999.1 | 1768.1 | 1709.5 | 1703.1 | 1714.4 | 1718.2 | 1677.0 | 1668.2 |
| 40° | 5152.0 | 3009.3 | 1835.5 | 1680.6 | 1692.0 | 1668.2 | 1630.8 | 1604.6 | 1592.1 | 1588.4 |
| 42.5° | 5250.7 | 2757.1 | 1698.2 | 1639.4 | 1695.7 | 1627.0 | 1545.9 | 1503.5 | 1526.0 | 1535.8 |
| 45° | 5364.3 | 2511.1 | 1583.4 | 1588.4 | 1677.0 | 1579.6 | 1487.1 | 1445.9 | 1454.6 | 1457.2 |
| 47.5° | 5520.4 | 2211.4 | 1459.7 | 1505.9 | 1614.6 | 1547.2 | 1450.9 | 1392.3 | 1351.1 | 1332.4 |
| 50° | 5736.3 | 1856.7 | 1331.1 | 1413.6 | 1553.3 | 1523.3 | 1394.8 | 1332.4 | 1256.2 | 1238.8 |
| 52.5° | 5886.2 | 1526.0 | 1225.0 | 1336.0 | 1498.5 | 1475.9 | 1349.9 | 1268.6 | 1188.7 | 1173.7 |
| 55° | 5805.0 | 1267.4 | 1132.6 | 1249.9 | 1426.0 | 1417.3 | 1312.3 | 1203.6 | 1141.2 | 1128.8 |
| 57.5° | 5399.3 | 1103.8 | 1061.3 | 1168.8 | 1337.3 | 1367.3 | 1262.4 | 1148.8 | 1103.8 | 1095.0 |
| 60° | 4625.1 | 1001.4 | 1016.4 | 1113.8 | 1265.0 | 1317.4 | 1212.4 | 1118.7 | 1088.8 | 1082.5 |
| 62.5° | 3588.6 | 932.8 | 982.7 | 1073.8 | 1208.7 | 1282.4 | 1185.0 | 1115.1 | 1103.8 | 1096.3 |
| 65° | 2570.9 | 877.9 | 946.5 | 1033.9 | 1157.6 | 1249.9 | 1175.1 | 1110.0 | 1112.6 | 1106.4 |
| 67.5° | 1746.8 | 829.1 | 902.7 | 988.9 | 1107.6 | 1221.2 | 1161.2 | 1092.6 | 1123.8 | 1116.4 |
| 70° | 1222.5 | 781.6 | 851.7 | 931.5 | 1045.2 | 1181.2 | 1136.3 | 1066.4 | 1063.9 | 1033.9 |
| 72.5° | 954.0 | 719.3 | 781.6 | 851.7 | 965.1 | 1125.0 | 1086.3 | 1007.7 | 966.4 | 935.2 |
| 73° | 910.3 | 704.2 | 764.2 | 834.0 | 947.7 | 1111.4 | 1072.5 | 991.5 | 945.2 | 916.5 |
| 75° | 753.0 | 639.4 | 694.3 | 756.7 | 872.9 | 1046.3 | 1005.2 | 917.8 | 859.0 | 841.6 |
| 77.5° | 591.9 | 546.9 | 599.3 | 655.6 | 769.2 | 951.5 | 905.3 | 821.6 | 789.2 | 774.2 |
| 80° | 438.4 | 453.3 | 499.5 | 549.5 | 666.8 | 850.3 | 809.2 | 725.6 | 870.3 | 834.0 |
| 82.5° | 308.4 | 343.4 | 385.8 | 430.7 | 559.5 | 751.7 | 701.8 | 615.6 | 636.8 | 529.5 |
| 85° | 182.3 | 224.8 | 264.7 | 303.4 | 403.2 | 623.1 | 579.3 | 490.7 | 402.1 | 383.3 |
| 87.5° | 106.1 | 124.9 | 136.2 | 176.1 | 277.1 | 469.5 | 408.3 | 363.4 | 208.5 | 141.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)