

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: P267118

Luminaire Tested: **GAN-AF-07-LED-U-T4W-7027-800-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P267118
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
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-T4W-7027-800-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29347.3 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 295
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

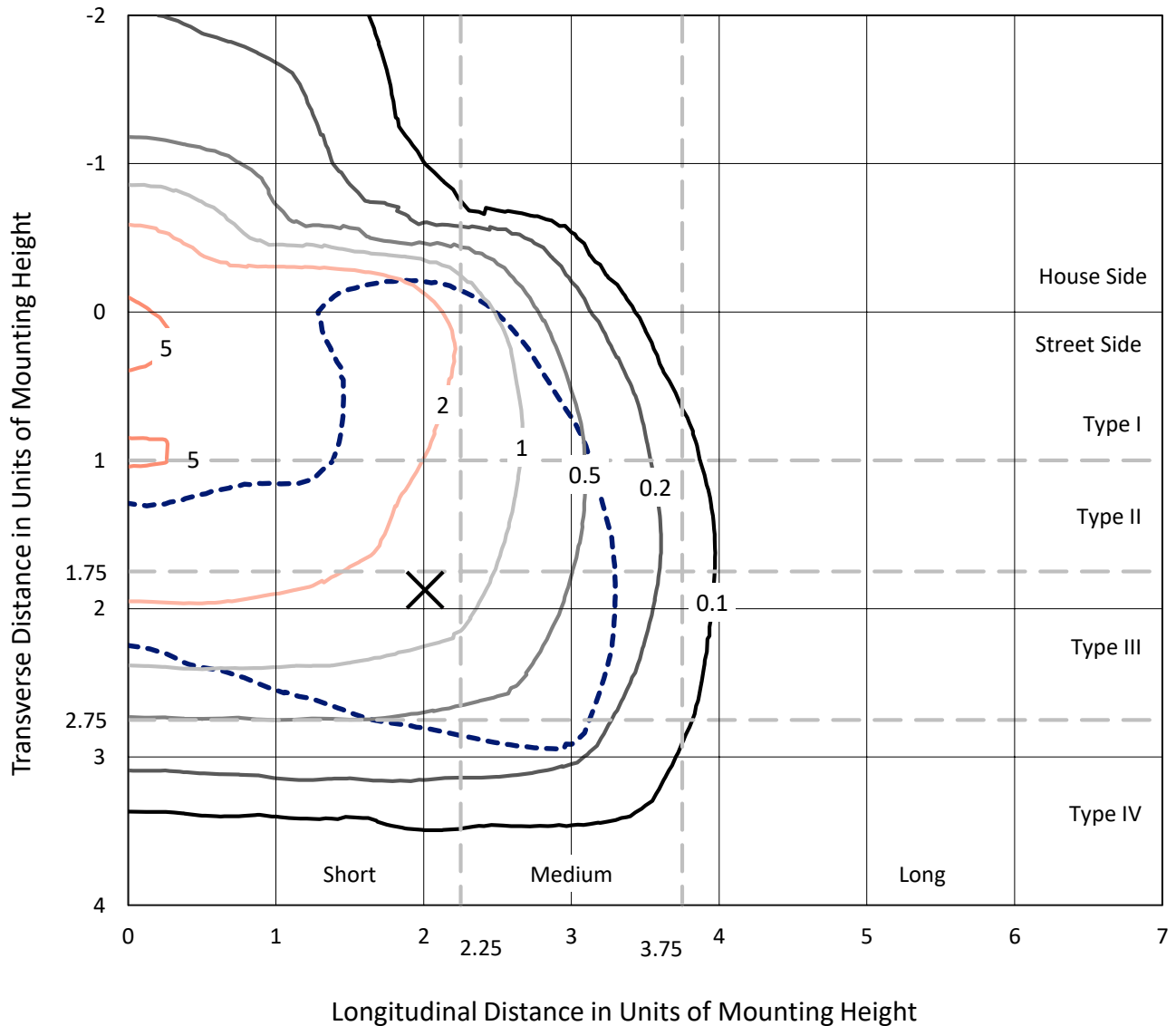


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

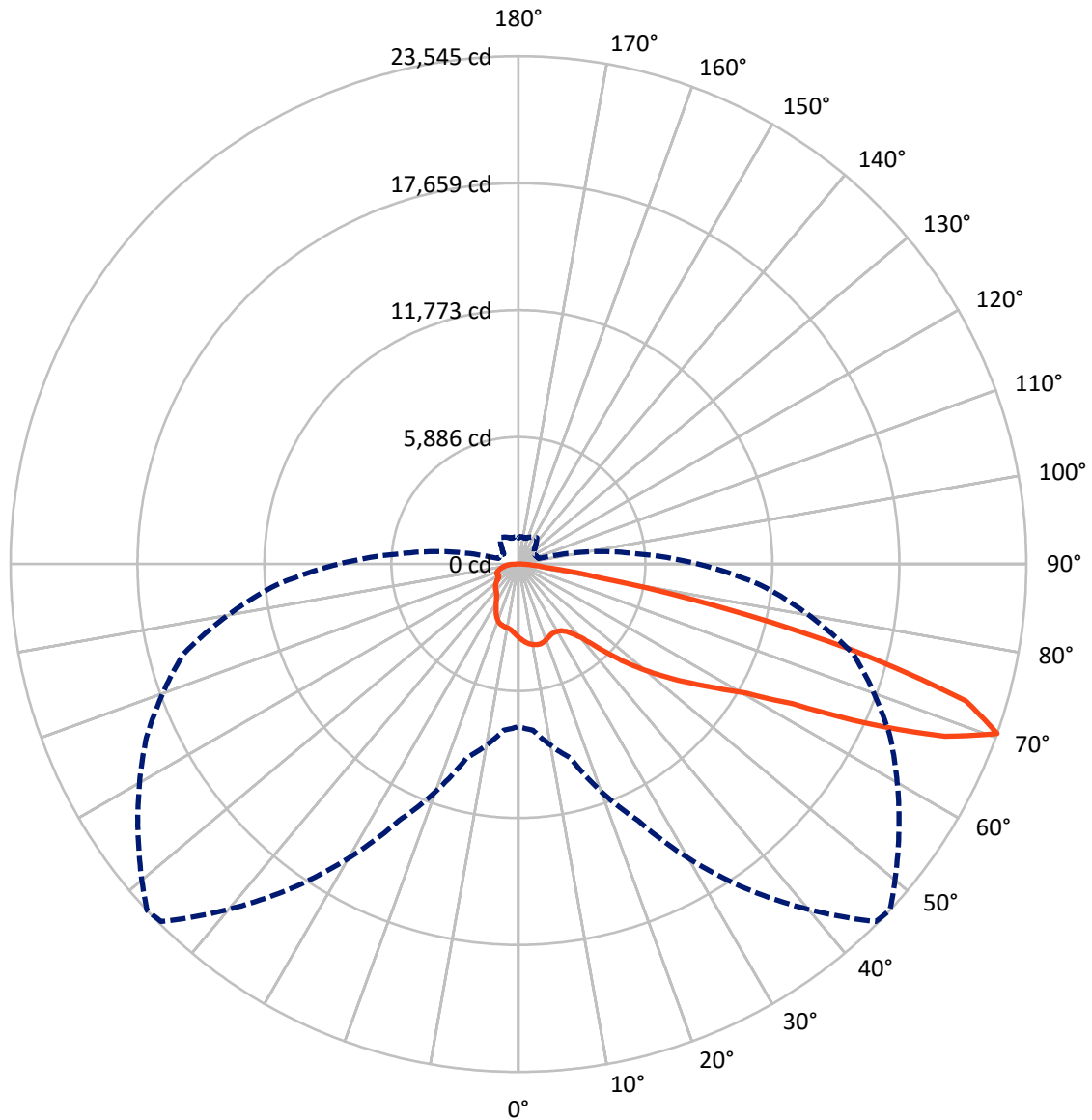


Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6122.4 | 0.0 | 6122.4 |
| | % Fixture | 20.9 | 0.0 | 20.9 |
| Street Side | Lumens | 23224.8 | 0.0 | 23224.8 |
| | % Fixture | 79.1 | 0.0 | 79.1 |
| Total | Lumens | 29347.3 | 0.0 | 29347.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 326.3 | 1.1 |
| 10°-20° | 957.2 | 3.3 |
| 20°-30° | 1413.5 | 4.8 |
| 30°-40° | 2054.6 | 7.0 |
| 40°-50° | 3697.5 | 12.6 |
| 50°-60° | 6405.5 | 21.8 |
| 60°-70° | 9142.5 | 31.2 |
| 70°-80° | 4693.2 | 16.0 |
| 80°-90° | 657.1 | 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° | 29347.3 | 100.0 |
| 0°-180° | 29347.3 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P267118

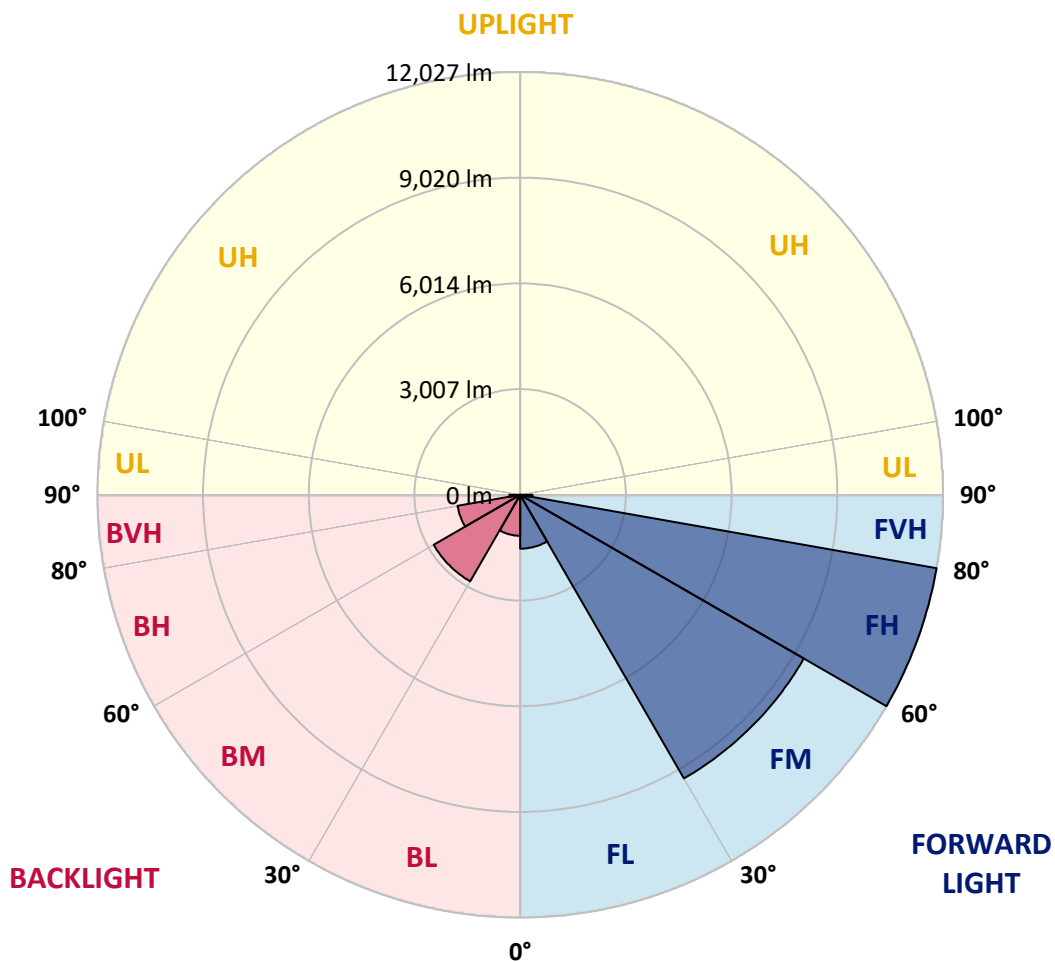
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1531.3 | 5.2 | | | |
| FM | (30°-60°) | 9315.7 | 31.7 | | | |
| FH | (60°-80°) | 12027.3 | 41.0 | | | G5 |
| FVH | (80°-90°) | 350.6 | 1.2 | | | G3/500 |
| BL | (0°-30°) | 1165.7 | 4.0 | B3/2500 | | |
| BM | (30°-60°) | 2841.9 | 9.7 | B3/5000 | | |
| BH | (60°-80°) | 1808.4 | 6.2 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 306.5 | 1.0 | | | 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° | 47° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3405.1 | 3405.1 | 3405.1 | 3405.1 | 3405.1 | 3405.1 | 3405.1 | 3405.1 | 3405.1 | 3405.1 | 3405.1 |
| 2.5° | 3605.1 | 3597.9 | 3595.0 | 3589.4 | 3582.3 | 3546.6 | 3539.4 | 3513.7 | 3478.0 | 3440.9 | 3402.3 |
| 5° | 3842.1 | 3840.7 | 3825.0 | 3796.3 | 3750.8 | 3672.2 | 3653.6 | 3590.9 | 3506.5 | 3425.1 | 3343.9 |
| 7.5° | 4050.5 | 4037.7 | 4007.7 | 3950.6 | 3870.6 | 3763.5 | 3737.8 | 3650.8 | 3535.1 | 3423.8 | 3313.8 |
| 10° | 4203.3 | 4196.2 | 4130.4 | 4052.0 | 3947.7 | 3829.3 | 3799.2 | 3702.2 | 3575.2 | 3433.7 | 3296.7 |
| 12.5° | 4290.5 | 4276.1 | 4200.5 | 4106.2 | 3981.9 | 3866.3 | 3836.4 | 3737.8 | 3595.0 | 3433.7 | 3272.4 |
| 15° | 4284.6 | 4274.8 | 4199.0 | 4096.2 | 3970.6 | 3869.2 | 3842.1 | 3743.5 | 3590.9 | 3419.5 | 3241.1 |
| 17.5° | 4170.6 | 4174.8 | 4110.6 | 4009.1 | 3906.3 | 3829.3 | 3805.0 | 3713.7 | 3562.3 | 3390.9 | 3203.9 |
| 20° | 3970.6 | 3990.6 | 3947.7 | 3857.9 | 3800.6 | 3747.9 | 3732.2 | 3655.1 | 3518.0 | 3349.5 | 3163.9 |
| 22.5° | 3770.6 | 3789.3 | 3772.2 | 3696.4 | 3687.9 | 3656.6 | 3647.8 | 3592.2 | 3479.4 | 3323.8 | 3139.7 |
| 25° | 3623.7 | 3640.8 | 3638.0 | 3572.2 | 3597.9 | 3596.5 | 3589.4 | 3562.3 | 3471.0 | 3323.8 | 3143.9 |
| 27.5° | 3583.7 | 3589.4 | 3583.7 | 3523.7 | 3559.4 | 3587.9 | 3582.3 | 3577.9 | 3496.6 | 3365.2 | 3198.1 |
| 30° | 3720.7 | 3712.2 | 3667.9 | 3546.6 | 3579.3 | 3619.5 | 3613.6 | 3616.4 | 3573.6 | 3473.7 | 3319.5 |
| 32.5° | 4267.6 | 4229.0 | 4089.1 | 3747.9 | 3660.8 | 3682.2 | 3685.0 | 3732.2 | 3739.3 | 3640.8 | 3508.1 |
| 35° | 5085.7 | 5042.8 | 4861.4 | 4287.5 | 3913.5 | 3839.3 | 3839.3 | 3910.6 | 3953.4 | 3880.7 | 3800.6 |
| 37.5° | 5952.3 | 5905.2 | 5808.1 | 5035.7 | 4444.6 | 4111.9 | 4104.7 | 4154.8 | 4216.1 | 4233.4 | 4253.3 |
| 40° | 6937.5 | 6887.5 | 6914.7 | 5875.3 | 5185.6 | 4584.5 | 4483.1 | 4447.5 | 4613.1 | 4723.0 | 4882.9 |
| 42.5° | 8015.4 | 7992.6 | 8002.6 | 6810.4 | 6029.5 | 5291.2 | 5147.1 | 4962.9 | 5162.7 | 5358.4 | 5693.8 |
| 45° | 9013.5 | 9033.4 | 9023.5 | 7811.2 | 6969.0 | 6153.6 | 6000.9 | 5644.0 | 5839.5 | 6175.0 | 6721.8 |
| 47.5° | 9887.3 | 9804.5 | 9932.9 | 8904.9 | 8021.1 | 7118.8 | 6930.3 | 6452.0 | 6650.5 | 7064.5 | 7989.7 |
| 50° | 10948.1 | 10936.7 | 10748.1 | 10364.0 | 9293.2 | 8088.2 | 7841.2 | 7287.3 | 7595.7 | 8171.1 | 9587.4 |
| 52.5° | 12063.1 | 11856.1 | 11683.4 | 11499.2 | 10642.5 | 9082.0 | 8779.2 | 8119.6 | 8706.5 | 9430.3 | 11534.9 |
| 55° | 12291.6 | 12198.8 | 12412.9 | 12722.8 | 11943.1 | 10114.2 | 9761.5 | 9163.3 | 9957.2 | 10869.5 | 13780.7 |
| 57.5° | 12779.8 | 12778.4 | 13221.1 | 13773.5 | 13282.3 | 11209.3 | 10853.9 | 10424.0 | 11363.5 | 12518.6 | 16165.1 |
| 60° | 13109.7 | 13202.5 | 14024.9 | 15097.0 | 14597.4 | 12474.4 | 12147.3 | 11878.9 | 12962.6 | 14361.8 | 18386.7 |
| 62.5° | 13282.3 | 13408.0 | 14530.3 | 15633.9 | 16456.3 | 14580.2 | 14253.2 | 13866.3 | 15078.5 | 16383.5 | 19685.8 |
| 65° | 12564.2 | 12811.3 | 14451.8 | 16097.9 | 18084.0 | 17993.9 | 17846.9 | 17167.2 | 17724.2 | 17981.2 | 19216.2 |
| 67.5° | 10576.9 | 10829.5 | 12739.9 | 15665.4 | 19246.1 | 21286.3 | 21317.8 | 20157.1 | 19351.7 | 18118.3 | 16156.5 |
| 70° | 7535.7 | 7734.1 | 9314.6 | 13133.8 | 18360.9 | 23438.0 | 23545.1 | 21534.9 | 19027.7 | 16068.0 | 11287.8 |
| 72.5° | 3577.9 | 3699.3 | 5195.5 | 8548.0 | 14570.2 | 21474.9 | 21681.9 | 19775.8 | 16179.4 | 11896.1 | 6157.9 |
| 75° | 1314.9 | 1352.0 | 1756.1 | 3636.5 | 8450.9 | 15836.7 | 16080.7 | 14176.2 | 10725.4 | 5922.3 | 2345.8 |
| 77.5° | 788.2 | 812.3 | 985.1 | 1534.8 | 3323.8 | 9052.0 | 9413.2 | 7710.0 | 4687.4 | 2204.4 | 1153.7 |
| 80° | 551.1 | 568.3 | 706.7 | 955.2 | 1570.5 | 3449.4 | 3770.6 | 3146.8 | 1867.4 | 1394.9 | 839.6 |
| 82.5° | 372.6 | 381.2 | 496.9 | 645.3 | 1043.7 | 1232.1 | 1329.2 | 1399.2 | 1259.2 | 1038.0 | 532.5 |
| 85° | 244.2 | 252.8 | 337.0 | 425.4 | 663.8 | 636.8 | 651.0 | 823.8 | 919.4 | 705.3 | 295.5 |
| 87.5° | 140.0 | 145.6 | 202.7 | 227.0 | 325.5 | 269.9 | 272.6 | 434.1 | 588.2 | 475.5 | 179.9 |
| 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° | 3405.1 | 3405.1 | 3405.1 | 3405.1 | 3405.1 | 3405.1 | 3405.1 | 3405.1 | 3405.1 | 3405.1 | 3405.1 |
| 2.5° | 3392.4 | 3373.8 | 3332.4 | 3306.8 | 3282.3 | 3276.7 | 3266.6 | 3265.2 | 3263.8 | 3263.8 | 3259.6 |
| 5° | 3316.7 | 3285.3 | 3221.1 | 3185.3 | 3155.3 | 3152.5 | 3151.1 | 3158.3 | 3161.0 | 3163.9 | 3159.6 |
| 7.5° | 3268.2 | 3225.4 | 3145.3 | 3093.9 | 3058.3 | 3049.7 | 3063.9 | 3096.7 | 3118.2 | 3126.8 | 3122.5 |
| 10° | 3238.1 | 3185.3 | 3092.5 | 3036.8 | 3006.8 | 3002.6 | 3021.1 | 3059.6 | 3104.0 | 3121.2 | 3119.6 |
| 12.5° | 3203.9 | 3143.9 | 3045.4 | 2986.9 | 2969.7 | 2978.3 | 3002.6 | 3038.2 | 3083.9 | 3111.1 | 3112.4 |
| 15° | 3169.6 | 3099.6 | 2998.4 | 2946.9 | 2939.8 | 2951.2 | 2974.0 | 3001.1 | 3036.8 | 3063.9 | 3066.9 |
| 17.5° | 3128.2 | 3055.3 | 2954.0 | 2901.2 | 2895.4 | 2901.2 | 2902.7 | 2916.8 | 2939.8 | 2965.5 | 2972.6 |
| 20° | 3083.9 | 3009.7 | 2904.0 | 2851.2 | 2825.4 | 2802.7 | 2777.0 | 2779.8 | 2787.0 | 2812.7 | 2818.4 |
| 22.5° | 3052.5 | 2978.3 | 2865.6 | 2792.7 | 2724.2 | 2655.6 | 2604.2 | 2597.1 | 2600.0 | 2621.3 | 2628.5 |
| 25° | 3055.3 | 2976.9 | 2855.5 | 2729.9 | 2579.9 | 2470.0 | 2401.4 | 2390.1 | 2388.7 | 2404.4 | 2414.4 |
| 27.5° | 3111.1 | 3032.6 | 2892.6 | 2665.6 | 2422.9 | 2260.1 | 2187.4 | 2178.7 | 2167.3 | 2171.7 | 2183.1 |
| 30° | 3235.2 | 3162.5 | 2982.6 | 2600.0 | 2252.9 | 2054.6 | 1978.8 | 1970.3 | 1954.6 | 1947.4 | 1956.0 |
| 32.5° | 3438.1 | 3378.0 | 3114.0 | 2537.2 | 2083.1 | 1879.0 | 1801.8 | 1783.2 | 1773.3 | 1764.7 | 1771.8 |
| 35° | 3774.9 | 3749.3 | 3289.6 | 2468.6 | 1933.2 | 1743.3 | 1673.4 | 1644.7 | 1630.6 | 1646.2 | 1657.6 |
| 37.5° | 4303.2 | 4317.6 | 3519.4 | 2361.6 | 1817.5 | 1653.3 | 1594.9 | 1562.0 | 1540.6 | 1553.3 | 1566.3 |
| 40° | 5051.3 | 5061.4 | 3773.6 | 2210.2 | 1717.6 | 1600.5 | 1537.7 | 1507.7 | 1477.7 | 1454.8 | 1453.5 |
| 42.5° | 6033.6 | 5932.3 | 4023.4 | 2046.0 | 1601.9 | 1567.7 | 1497.7 | 1460.6 | 1414.9 | 1352.0 | 1339.3 |
| 45° | 7198.7 | 6843.3 | 4213.3 | 1857.5 | 1472.1 | 1527.7 | 1453.5 | 1402.1 | 1330.7 | 1262.2 | 1255.0 |
| 47.5° | 8540.8 | 7821.3 | 4306.1 | 1662.0 | 1350.6 | 1469.2 | 1399.2 | 1317.9 | 1227.9 | 1193.6 | 1189.4 |
| 50° | 10180.0 | 8982.1 | 4350.4 | 1472.1 | 1245.1 | 1392.1 | 1320.7 | 1225.0 | 1149.3 | 1142.3 | 1138.0 |
| 52.5° | 12046.0 | 10378.4 | 4364.7 | 1316.3 | 1157.9 | 1292.1 | 1256.4 | 1163.7 | 1103.7 | 1109.3 | 1109.3 |
| 55° | 13999.1 | 11820.3 | 4170.6 | 1203.5 | 1078.0 | 1189.4 | 1213.6 | 1139.3 | 1089.4 | 1112.2 | 1120.7 |
| 57.5° | 15792.5 | 13098.2 | 3559.4 | 1116.6 | 1002.2 | 1110.8 | 1197.9 | 1162.1 | 1127.9 | 1220.7 | 1226.5 |
| 60° | 17168.8 | 13853.5 | 2658.4 | 1038.0 | 946.6 | 1083.6 | 1239.3 | 1249.4 | 1257.8 | 1479.1 | 1509.2 |
| 62.5° | 17457.2 | 13602.2 | 1827.5 | 976.5 | 920.9 | 1106.5 | 1314.9 | 1316.3 | 1306.3 | 1460.6 | 1479.1 |
| 65° | 16133.6 | 12013.2 | 1329.2 | 942.3 | 899.6 | 1147.9 | 1379.2 | 1349.3 | 1283.6 | 1400.6 | 1366.3 |
| 67.5° | 12812.6 | 9050.6 | 1106.5 | 916.6 | 868.1 | 1145.1 | 1447.8 | 1379.2 | 1270.7 | 1372.2 | 1316.3 |
| 70° | 8316.7 | 5472.6 | 985.1 | 895.3 | 830.9 | 1090.8 | 1487.8 | 1376.4 | 1233.6 | 1276.4 | 1210.7 |
| 72.5° | 4057.6 | 2447.2 | 903.8 | 863.8 | 792.5 | 1015.2 | 1486.2 | 1350.6 | 1195.0 | 1192.2 | 1156.5 |
| 75° | 1587.7 | 1120.7 | 829.6 | 816.6 | 726.6 | 929.4 | 1446.4 | 1313.5 | 1149.3 | 1103.7 | 1090.8 |
| 77.5° | 929.4 | 799.5 | 735.4 | 746.8 | 648.1 | 843.8 | 1387.8 | 1249.4 | 1086.5 | 1032.2 | 1018.0 |
| 80° | 676.8 | 598.2 | 626.7 | 645.3 | 554.0 | 758.1 | 1309.3 | 1170.8 | 1016.5 | 1043.7 | 1023.7 |
| 82.5° | 434.1 | 385.6 | 508.4 | 526.9 | 461.2 | 671.0 | 1223.6 | 1087.9 | 918.1 | 833.7 | 813.9 |
| 85° | 221.3 | 244.2 | 378.4 | 401.3 | 355.5 | 551.1 | 1119.4 | 978.1 | 806.7 | 693.9 | 705.3 |
| 87.5° | 124.2 | 167.1 | 241.3 | 269.9 | 251.3 | 424.0 | 908.0 | 806.7 | 658.2 | 535.4 | 471.2 |
| 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)