

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: P191121

Luminaire Tested: **GAN-AF-03-LED-U-SL3-800-HSS-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191121
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-03-LED-U-SL3-800-HSS-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12831.9 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

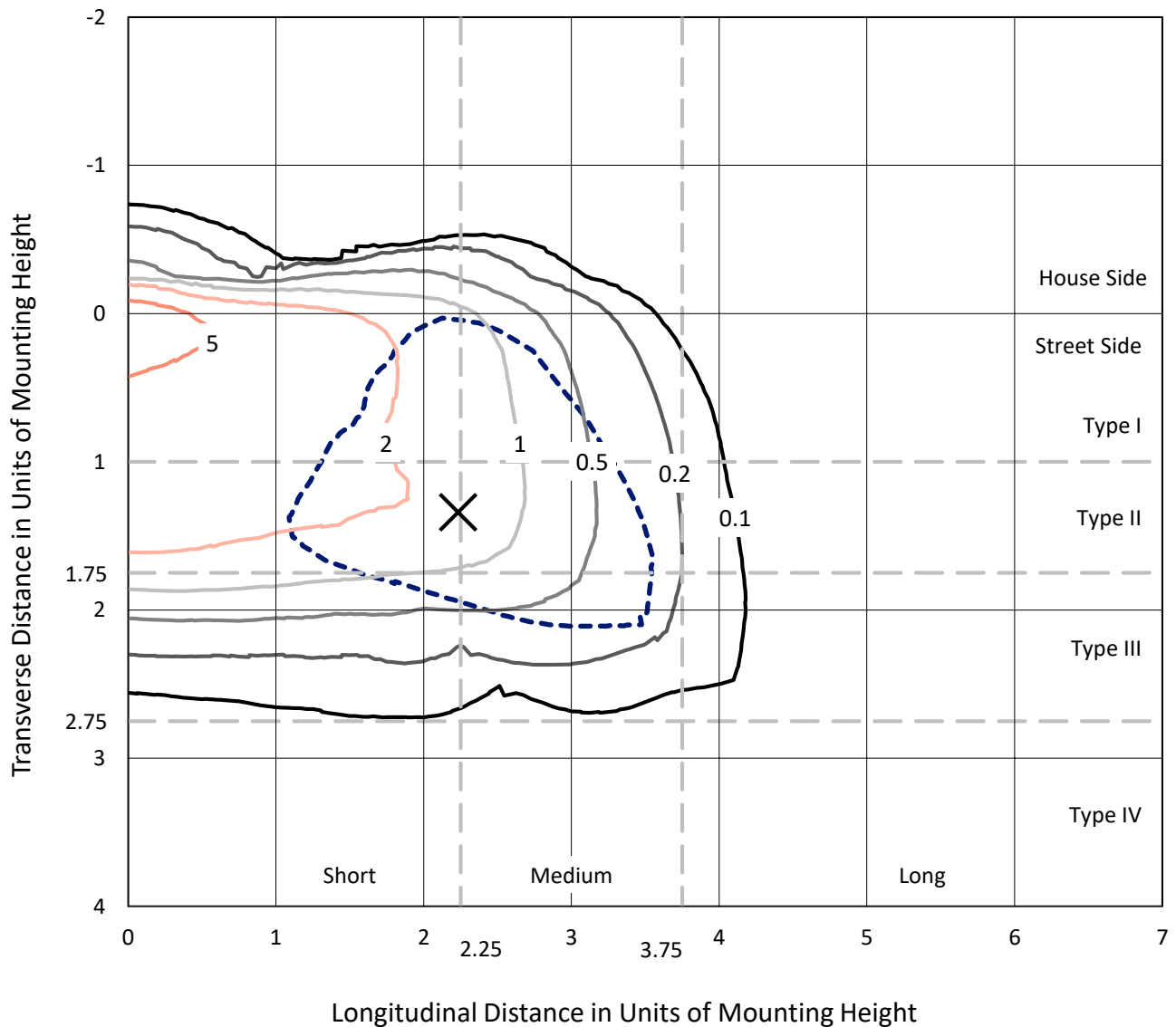
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

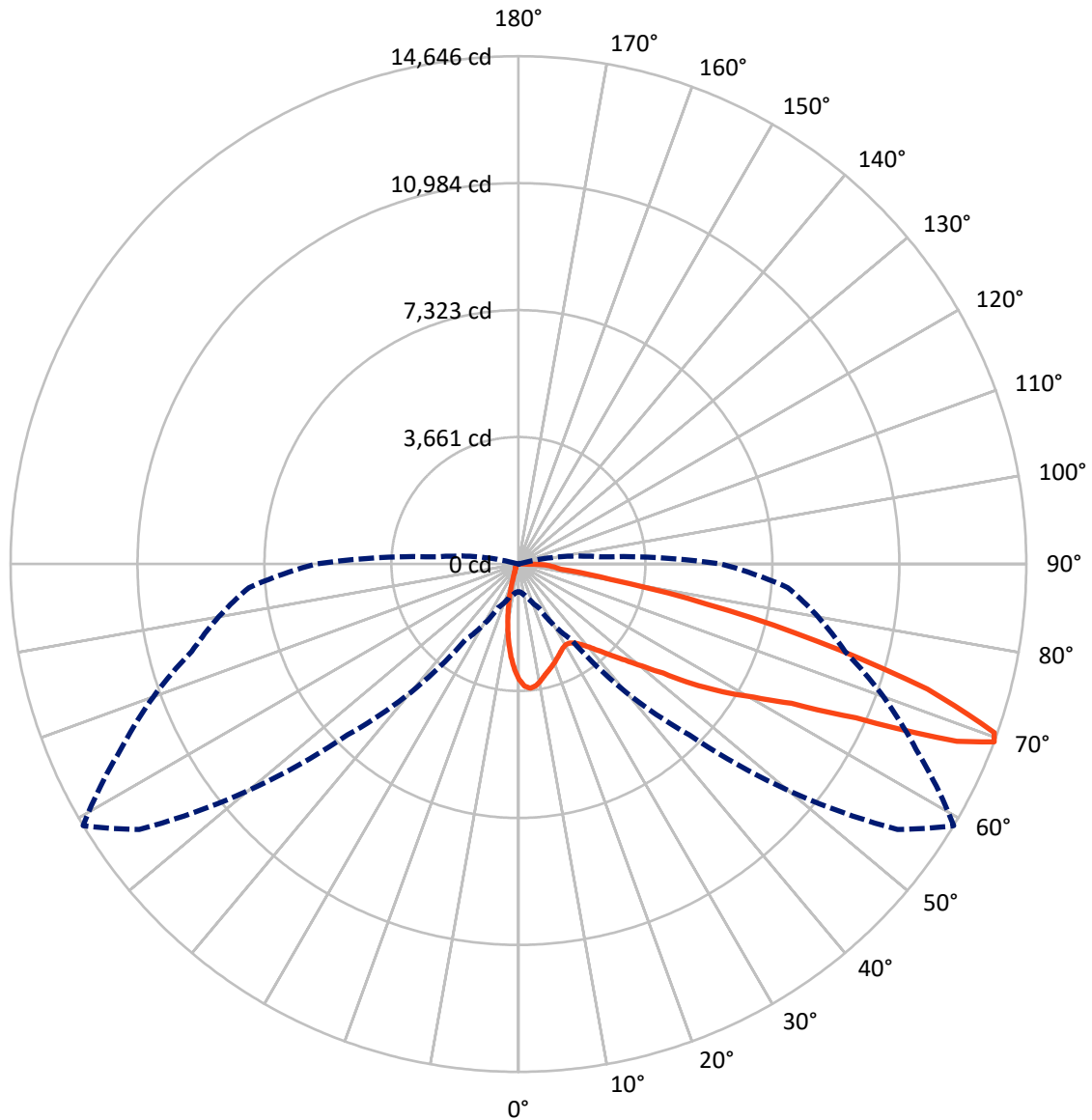


Based on 20 foot mounting height. Maximum calculated value = 8.4 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1045.0 | 0.0 | 1045.0 |
| | % Fixture | 8.1 | 0.0 | 8.1 |
| Street Side | Lumens | 11786.9 | 0.0 | 11786.9 |
| | % Fixture | 91.9 | 0.0 | 91.9 |
| Total | Lumens | 12831.9 | 0.0 | 12831.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 271.1 | 2.1 |
| 10°-20° | 560.2 | 4.4 |
| 20°-30° | 753.8 | 5.9 |
| 30°-40° | 1094.5 | 8.5 |
| 40°-50° | 1822.4 | 14.2 |
| 50°-60° | 2842.9 | 22.2 |
| 60°-70° | 3517.8 | 27.4 |
| 70°-80° | 1782.8 | 13.9 |
| 80°-90° | 186.5 | 1.5 |
| 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° | 12831.9 | 100.0 |
| 0°-180° | 12831.9 | 100.0 |

Coefficient of Utilization



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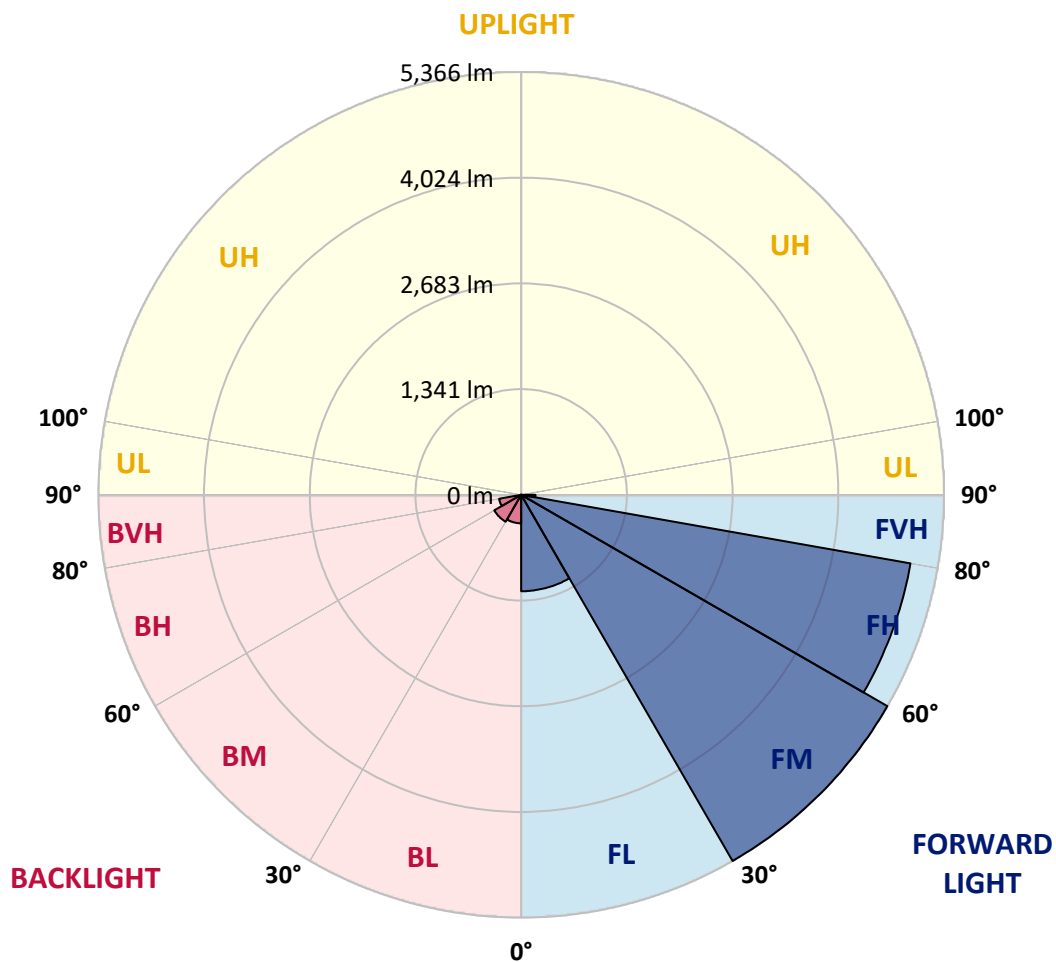
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1223.4 | 9.5 | | | |
| FM | (30°-60°) | 5365.9 | 41.8 | | | |
| FH | (60°-80°) | 5016.8 | 39.1 | | | G3/7500 |
| FVH | (80°-90°) | 180.8 | 1.4 | | | G2/225 |
| BL | (0°-30°) | 361.7 | 2.8 | B1/500 | | |
| BM | (30°-60°) | 393.8 | 3.1 | B1/1000 | | |
| BH | (60°-80°) | 283.8 | 2.2 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 5.7 | 0.0 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|--------|--------|
| 0° | 3339.9 | 3339.9 | 3339.9 | 3339.9 | 3339.9 | 3339.9 | 3339.9 | 3339.9 | 3339.9 | 3339.9 | 3339.9 |
| 2.5° | 3660.7 | 3659.2 | 3643.2 | 3636.0 | 3623.0 | 3595.4 | 3552.6 | 3530.1 | 3493.8 | 3430.7 | 3345.8 |
| 5° | 3627.3 | 3644.7 | 3654.2 | 3654.9 | 3664.3 | 3654.2 | 3615.7 | 3596.8 | 3546.8 | 3445.2 | 3292.8 |
| 7.5° | 3400.9 | 3407.4 | 3434.3 | 3457.5 | 3502.5 | 3545.3 | 3559.1 | 3551.1 | 3521.4 | 3412.6 | 3210.1 |
| 10° | 3158.6 | 3165.1 | 3197.0 | 3227.5 | 3288.5 | 3354.5 | 3424.1 | 3438.6 | 3451.0 | 3366.1 | 3130.2 |
| 12.5° | 2949.6 | 2956.1 | 2988.8 | 3028.7 | 3099.7 | 3181.1 | 3289.2 | 3313.1 | 3367.6 | 3321.8 | 3066.4 |
| 15° | 2769.6 | 2772.5 | 2804.4 | 2853.8 | 2938.7 | 3043.2 | 3165.8 | 3204.3 | 3287.8 | 3290.6 | 3010.5 |
| 17.5° | 2616.5 | 2623.8 | 2643.4 | 2690.6 | 2783.4 | 2912.5 | 3055.6 | 3110.7 | 3208.6 | 3264.5 | 2956.1 |
| 20° | 2522.9 | 2530.2 | 2529.5 | 2555.5 | 2639.0 | 2776.9 | 2945.3 | 3011.3 | 3130.2 | 3237.6 | 2907.5 |
| 22.5° | 2504.8 | 2504.8 | 2486.0 | 2482.3 | 2531.6 | 2647.0 | 2830.6 | 2911.1 | 3059.9 | 3226.1 | 2873.4 |
| 25° | 2569.3 | 2566.5 | 2519.3 | 2480.9 | 2483.0 | 2552.0 | 2719.6 | 2815.4 | 3000.4 | 3234.1 | 2855.3 |
| 27.5° | 2705.8 | 2702.1 | 2642.7 | 2569.3 | 2510.6 | 2509.9 | 2635.4 | 2738.4 | 2953.3 | 3271.8 | 2862.5 |
| 30° | 2894.4 | 2893.0 | 2828.5 | 2736.3 | 2629.6 | 2531.6 | 2606.4 | 2700.0 | 2922.8 | 3339.9 | 2879.2 |
| 32.5° | 3100.6 | 3098.3 | 3049.7 | 2952.4 | 2817.5 | 2629.6 | 2636.9 | 2715.2 | 2931.5 | 3430.7 | 2919.8 |
| 35° | 3319.0 | 3315.3 | 3294.2 | 3209.4 | 3060.6 | 2810.3 | 2737.0 | 2798.0 | 2986.6 | 3566.3 | 2999.7 |
| 37.5° | 3555.5 | 3559.1 | 3574.3 | 3493.1 | 3337.1 | 3063.5 | 2904.6 | 2946.0 | 3097.6 | 3750.6 | 3129.5 |
| 40° | 3904.5 | 3903.8 | 3908.8 | 3802.2 | 3651.9 | 3373.4 | 3138.9 | 3152.0 | 3283.4 | 3995.2 | 3326.9 |
| 42.5° | 4537.9 | 4493.7 | 4359.4 | 4141.7 | 3990.8 | 3727.4 | 3434.3 | 3420.5 | 3510.5 | 4297.7 | 3603.3 |
| 45° | 5389.1 | 5294.8 | 4946.5 | 4529.2 | 4336.2 | 4126.5 | 3797.8 | 3753.5 | 3810.9 | 4661.3 | 3944.4 |
| 47.5° | 6121.2 | 6023.2 | 5530.6 | 4932.7 | 4702.6 | 4505.3 | 4223.8 | 4144.0 | 4162.8 | 5068.3 | 4376.9 |
| 50° | 6370.1 | 6322.2 | 5891.9 | 5283.8 | 5057.5 | 4982.0 | 4717.8 | 4620.7 | 4593.8 | 5539.3 | 4878.2 |
| 52.5° | 6283.8 | 6280.1 | 5993.5 | 5511.7 | 5382.6 | 5475.4 | 5339.7 | 5227.3 | 5128.6 | 6035.6 | 5388.4 |
| 55° | 6145.2 | 6163.3 | 6034.9 | 5711.2 | 5706.9 | 5926.1 | 6190.2 | 6096.6 | 5810.7 | 6574.7 | 5828.1 |
| 57.5° | 5762.8 | 5840.4 | 6011.7 | 6088.6 | 6267.1 | 6491.2 | 6898.4 | 6953.5 | 6615.3 | 6987.6 | 6193.0 |
| 60° | 4675.8 | 4846.3 | 5406.5 | 6143.0 | 6989.0 | 7547.7 | 7753.1 | 7800.3 | 7275.6 | 7330.8 | 6685.7 |
| 62.5° | 3319.0 | 3493.1 | 4203.4 | 5449.3 | 7000.0 | 8935.9 | 9026.5 | 8841.5 | 8002.7 | 7839.5 | 7535.5 |
| 65° | 1761.7 | 1896.0 | 2476.5 | 3933.6 | 6069.0 | 9258.0 | 11253.4 | 10702.0 | 9285.6 | 8840.0 | 8633.3 |
| 67.5° | 901.2 | 941.8 | 1172.6 | 1925.0 | 4172.2 | 8223.3 | 13249.6 | 13637.8 | 11496.5 | 9832.7 | 8580.3 |
| 69° | 797.4 | 821.4 | 974.5 | 1391.7 | 2671.6 | 6965.1 | 13346.8 | 14645.6 | 12653.8 | 9749.9 | 7797.3 |
| 70° | 772.0 | 793.1 | 932.4 | 1259.7 | 2088.3 | 5841.2 | 12974.6 | 14557.1 | 12949.8 | 9435.1 | 7212.5 |
| 72.5° | 655.2 | 673.4 | 830.1 | 1113.1 | 1697.2 | 2899.6 | 10539.5 | 12335.4 | 11620.6 | 7859.7 | 5220.7 |
| 75° | 438.2 | 497.8 | 796.7 | 1043.4 | 1578.9 | 1647.2 | 6948.4 | 8914.1 | 8280.6 | 5301.2 | 2719.6 |
| 77.5° | 105.3 | 113.2 | 224.9 | 830.1 | 1444.0 | 1449.7 | 3573.6 | 5541.4 | 4519.8 | 1889.5 | 642.9 |
| 80° | 56.6 | 54.4 | 63.1 | 164.7 | 1344.6 | 1360.5 | 1608.7 | 2689.8 | 1613.7 | 313.4 | 211.9 |
| 82.5° | 39.9 | 37.7 | 40.6 | 68.9 | 423.0 | 1239.3 | 1163.9 | 1217.5 | 669.0 | 120.4 | 95.0 |
| 85° | 14.5 | 13.8 | 22.5 | 62.4 | 132.8 | 712.6 | 1195.8 | 1004.2 | 542.1 | 55.1 | 69.7 |
| 87.5° | 5.1 | 4.4 | 8.7 | 34.1 | 40.6 | 303.3 | 738.0 | 759.0 | 213.3 | 33.3 | 32.6 |
| 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° | 3339.9 | 3339.9 | 3339.9 | 3339.9 | 3339.9 | 3339.9 | 3339.9 | 3339.9 | 3339.9 | 3339.9 | 3339.9 |
| 2.5° | 3310.2 | 3265.3 | 3182.5 | 3097.6 | 3019.2 | 2924.9 | 2877.8 | 2831.3 | 2811.7 | 2804.4 | 2770.4 |
| 5° | 3214.4 | 3138.2 | 2962.7 | 2786.3 | 2623.8 | 2451.1 | 2337.1 | 2245.8 | 2192.1 | 2165.9 | 2124.6 |
| 7.5° | 3091.8 | 2967.0 | 2700.7 | 2428.6 | 2175.4 | 1925.8 | 1740.8 | 1598.5 | 1500.6 | 1453.4 | 1410.5 |
| 10° | 2972.8 | 2806.7 | 2427.9 | 2057.1 | 1713.1 | 1382.3 | 1126.9 | 941.8 | 823.6 | 769.2 | 734.3 |
| 12.5° | 2866.1 | 2650.7 | 2164.5 | 1695.0 | 1263.2 | 875.9 | 616.0 | 468.7 | 395.5 | 370.1 | 357.7 |
| 15° | 2771.1 | 2506.9 | 1915.6 | 1351.1 | 855.5 | 500.6 | 336.7 | 286.6 | 275.0 | 275.0 | 273.5 |
| 17.5° | 2681.2 | 2366.2 | 1675.4 | 1028.2 | 536.9 | 306.2 | 256.1 | 249.6 | 249.6 | 252.5 | 252.5 |
| 20° | 2594.8 | 2232.0 | 1443.3 | 738.0 | 338.1 | 243.1 | 231.5 | 230.1 | 231.5 | 235.1 | 235.1 |
| 22.5° | 2520.8 | 2110.0 | 1226.3 | 506.5 | 251.0 | 219.1 | 213.3 | 211.1 | 211.9 | 214.1 | 215.5 |
| 25° | 2465.6 | 2007.0 | 1021.6 | 343.2 | 216.3 | 199.6 | 193.0 | 189.3 | 186.5 | 186.5 | 187.9 |
| 27.5° | 2430.7 | 1920.0 | 823.6 | 249.6 | 194.5 | 181.4 | 171.2 | 165.4 | 158.9 | 155.3 | 156.7 |
| 30° | 2405.4 | 1837.2 | 637.8 | 203.9 | 174.1 | 161.1 | 148.0 | 138.6 | 129.2 | 124.8 | 126.2 |
| 32.5° | 2396.0 | 1770.5 | 476.7 | 179.9 | 156.0 | 141.5 | 125.5 | 113.2 | 103.0 | 99.4 | 100.1 |
| 35° | 2421.3 | 1717.5 | 349.0 | 162.5 | 141.5 | 123.4 | 105.3 | 91.5 | 83.5 | 81.2 | 82.0 |
| 37.5° | 2488.1 | 1689.2 | 261.3 | 148.0 | 128.5 | 108.1 | 87.8 | 74.8 | 69.7 | 69.7 | 70.4 |
| 40° | 2614.4 | 1688.5 | 209.7 | 137.9 | 116.8 | 93.6 | 72.5 | 63.1 | 60.3 | 61.7 | 62.4 |
| 42.5° | 2798.7 | 1726.9 | 182.9 | 128.5 | 106.7 | 79.8 | 60.3 | 53.7 | 53.0 | 54.4 | 55.1 |
| 45° | 3050.4 | 1797.3 | 168.4 | 120.4 | 95.7 | 66.8 | 50.8 | 46.4 | 46.4 | 48.6 | 49.3 |
| 47.5° | 3358.9 | 1900.3 | 156.0 | 112.4 | 84.9 | 55.9 | 43.6 | 40.6 | 41.3 | 43.6 | 44.3 |
| 50° | 3730.3 | 2030.3 | 143.6 | 103.7 | 76.9 | 46.4 | 37.7 | 35.6 | 36.3 | 39.2 | 39.9 |
| 52.5° | 4153.4 | 2205.1 | 133.5 | 95.7 | 66.8 | 38.5 | 31.9 | 30.5 | 31.9 | 34.8 | 35.6 |
| 55° | 4516.1 | 2361.9 | 121.2 | 89.2 | 53.7 | 31.9 | 26.1 | 26.1 | 27.6 | 31.2 | 31.9 |
| 57.5° | 4865.2 | 2525.9 | 110.3 | 76.9 | 42.0 | 25.4 | 21.8 | 22.5 | 24.7 | 28.3 | 29.1 |
| 60° | 5377.4 | 2803.7 | 97.2 | 64.5 | 31.9 | 20.4 | 18.1 | 18.8 | 21.8 | 25.4 | 26.1 |
| 62.5° | 6247.5 | 3226.8 | 84.2 | 53.7 | 24.7 | 16.0 | 14.5 | 16.0 | 19.6 | 23.9 | 24.7 |
| 65° | 7032.6 | 3398.8 | 68.9 | 45.0 | 18.8 | 12.4 | 12.4 | 14.5 | 18.8 | 23.2 | 23.9 |
| 67.5° | 6595.1 | 2861.1 | 53.7 | 35.6 | 14.5 | 9.4 | 10.1 | 13.8 | 18.1 | 23.2 | 23.9 |
| 69° | 5832.5 | 2339.4 | 45.7 | 28.3 | 12.4 | 8.7 | 9.4 | 13.8 | 18.1 | 22.5 | 23.2 |
| 70° | 5238.1 | 1975.1 | 40.6 | 23.9 | 10.8 | 8.7 | 9.4 | 13.1 | 18.1 | 22.5 | 23.2 |
| 72.5° | 3508.3 | 1066.6 | 32.6 | 17.4 | 10.1 | 8.0 | 8.0 | 13.1 | 17.4 | 21.8 | 22.5 |
| 75° | 1507.8 | 294.6 | 26.1 | 12.4 | 8.7 | 7.3 | 7.3 | 12.4 | 16.7 | 21.1 | 22.5 |
| 77.5° | 275.7 | 74.8 | 21.1 | 10.8 | 8.7 | 7.3 | 6.5 | 11.6 | 16.0 | 20.4 | 21.1 |
| 80° | 109.6 | 37.0 | 16.7 | 9.4 | 8.0 | 6.5 | 5.8 | 10.8 | 15.2 | 19.6 | 20.4 |
| 82.5° | 66.0 | 21.1 | 13.8 | 8.7 | 8.0 | 5.8 | 5.1 | 9.4 | 14.5 | 18.8 | 19.6 |
| 85° | 53.7 | 14.5 | 10.8 | 8.7 | 7.3 | 5.8 | 4.4 | 8.7 | 13.1 | 18.1 | 18.8 |
| 87.5° | 26.1 | 10.1 | 10.1 | 8.0 | 7.3 | 5.8 | 4.4 | 8.0 | 12.4 | 17.4 | 18.1 |
| 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)