

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: P193613

Luminaire Tested: **GAN-AF-05-LED-U-SL2-8030-600-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193613
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
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-SL2-8030-600-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15669 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 162
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

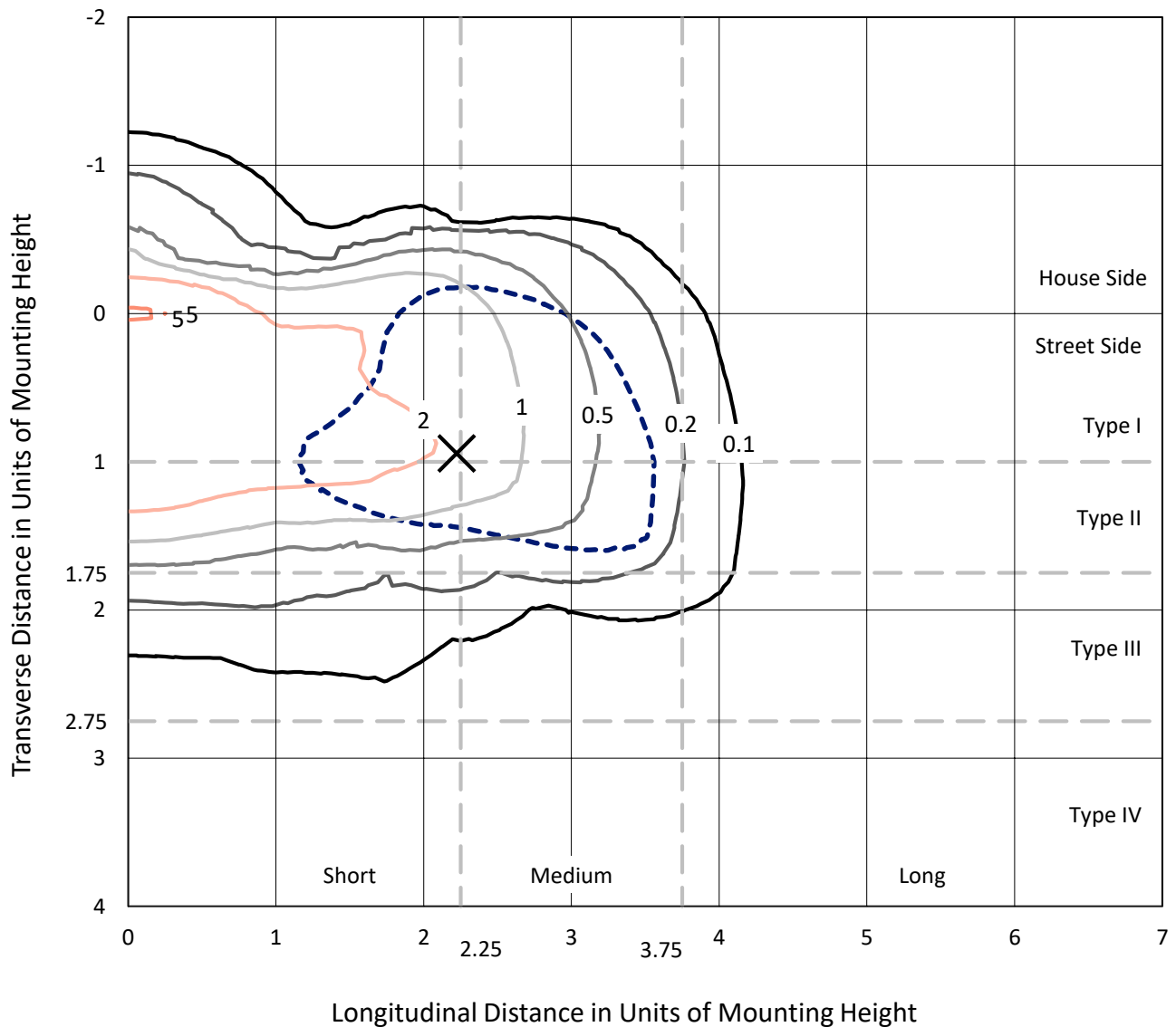


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

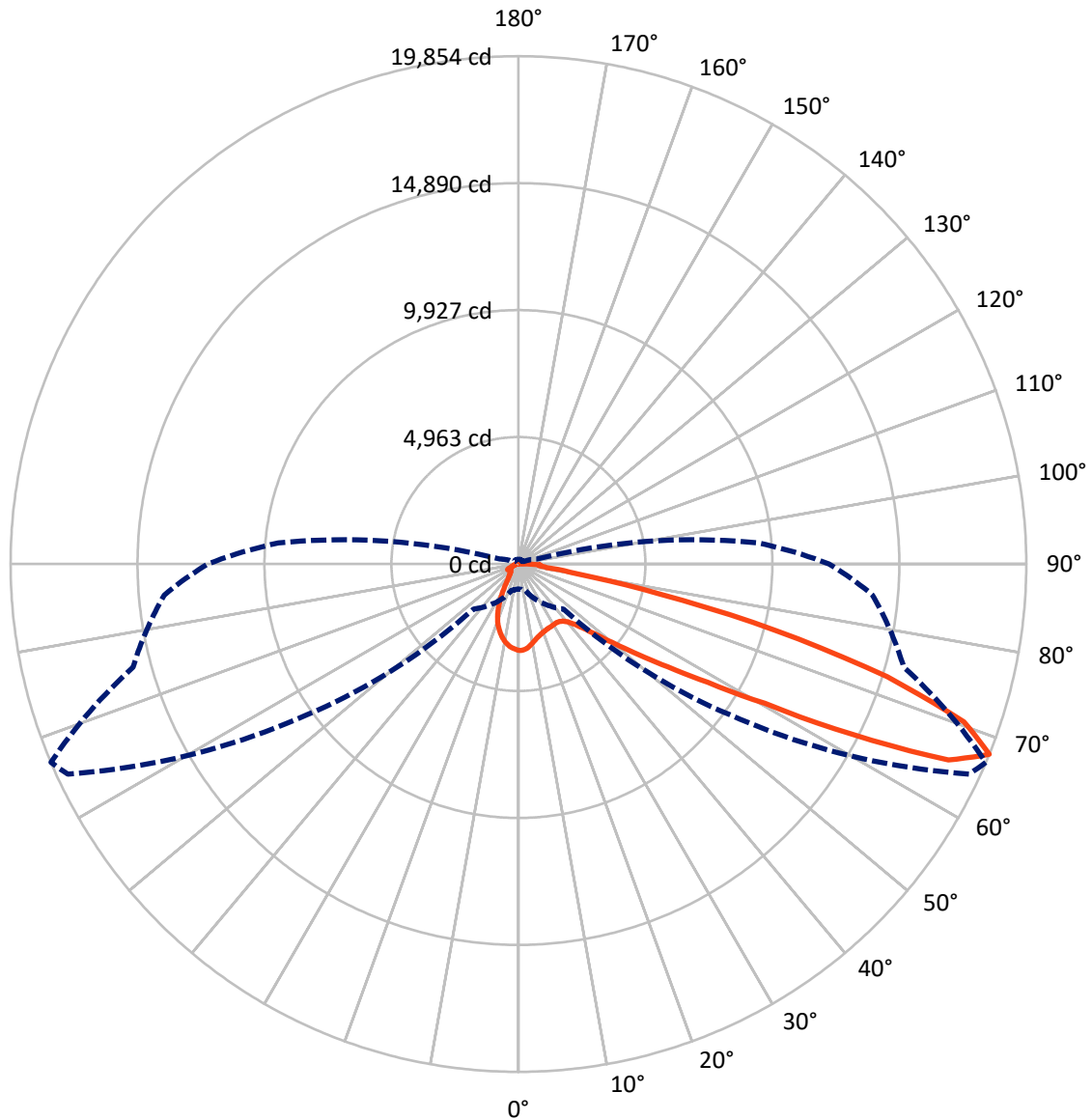


Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2596.2 | 0.0 | 2596.2 |
| | % Fixture | 16.6 | 0.0 | 16.6 |
| Street Side | Lumens | 13072.8 | 0.0 | 13072.8 |
| | % Fixture | 83.4 | 0.0 | 83.4 |
| Total | Lumens | 15669.0 | 0.0 | 15669.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 288.3 | 1.8 |
| 10°-20° | 667.2 | 4.3 |
| 20°-30° | 904.4 | 5.8 |
| 30°-40° | 1285.7 | 8.2 |
| 40°-50° | 2151.0 | 13.7 |
| 50°-60° | 3402.8 | 21.7 |
| 60°-70° | 4334.9 | 27.7 |
| 70°-80° | 2270.6 | 14.5 |
| 80°-90° | 364.2 | 2.3 |
| 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° | 15669.0 | 100.0 |
| 0°-180° | 15669.0 | 100.0 |

Coefficient of Utilization



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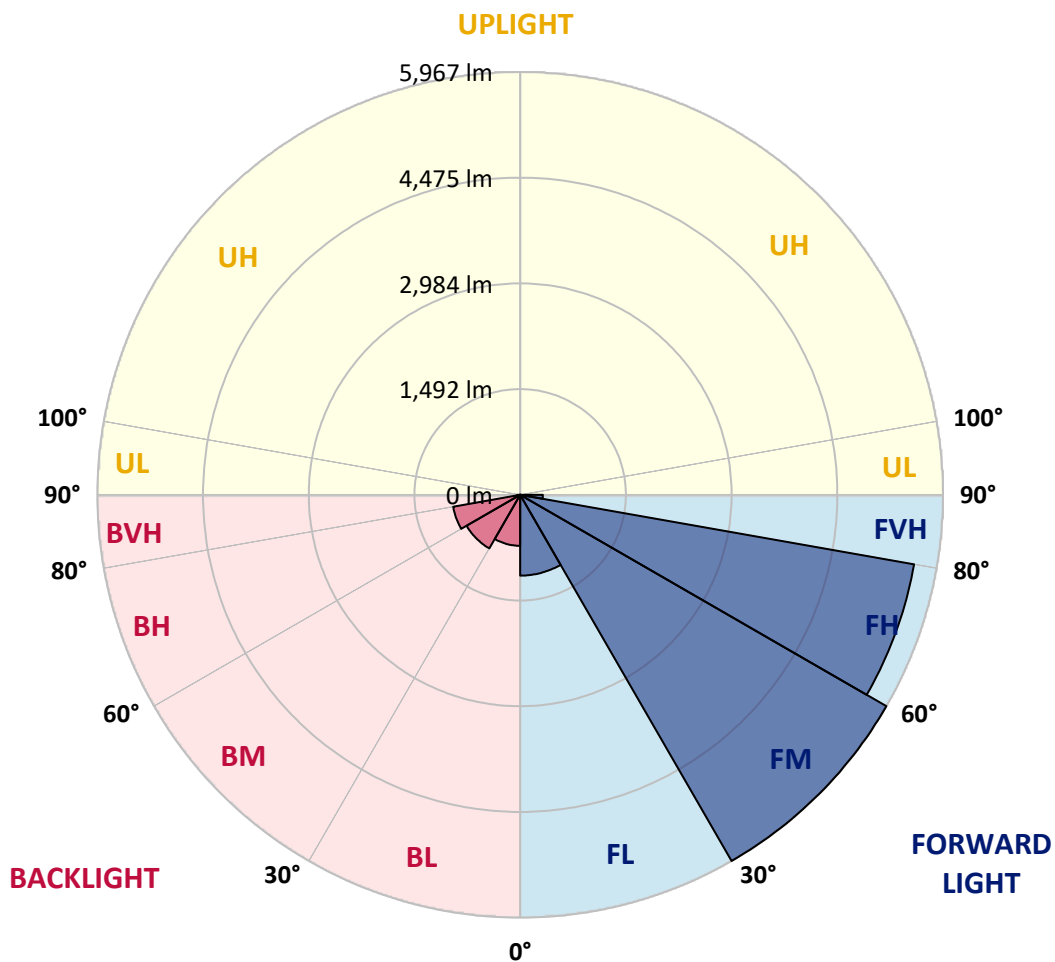
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1140.3 | 7.3 | | | |
| FM | (30°-60°) | 5967.1 | 38.1 | | | |
| FH | (60°-80°) | 5645.2 | 36.0 | | | G3/7500 |
| FVH | (80°-90°) | 320.2 | 2.0 | | | G3/500 |
| BL | (0°-30°) | 719.6 | 4.6 | B2/1000 | | |
| BM | (30°-60°) | 872.4 | 5.6 | B1/1000 | | |
| BH | (60°-80°) | 960.2 | 6.1 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 44.0 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0° | 3379.8 | 3379.8 | 3379.8 | 3379.8 | 3379.8 | 3379.8 | 3379.8 | 3379.8 | 3379.8 | 3379.8 | 3379.8 |
| 2.5° | 3240.7 | 3246.1 | 3263.1 | 3273.9 | 3322.6 | 3343.4 | 3358.1 | 3372.8 | 3375.1 | 3382.1 | 3375.1 |
| 5° | 2900.7 | 2912.3 | 2944.0 | 2979.5 | 3073.8 | 3148.0 | 3226.0 | 3307.1 | 3321.8 | 3374.4 | 3389.0 |
| 7.5° | 2637.2 | 2634.1 | 2660.4 | 2702.9 | 2799.5 | 2902.2 | 3039.0 | 3200.5 | 3232.2 | 3350.4 | 3407.6 |
| 10° | 2444.8 | 2442.5 | 2470.3 | 2514.3 | 2606.3 | 2703.7 | 2858.2 | 3079.2 | 3124.0 | 3312.5 | 3425.4 |
| 12.5° | 2302.6 | 2303.4 | 2331.2 | 2379.9 | 2473.4 | 2571.5 | 2728.4 | 2961.7 | 3018.9 | 3268.5 | 3443.9 |
| 15° | 2208.4 | 2214.5 | 2237.0 | 2288.7 | 2379.9 | 2478.0 | 2631.8 | 2873.7 | 2937.8 | 3233.7 | 3464.8 |
| 17.5° | 2176.7 | 2186.7 | 2194.5 | 2232.3 | 2310.4 | 2408.5 | 2559.2 | 2808.7 | 2876.7 | 3209.8 | 3483.3 |
| 20° | 2206.0 | 2217.6 | 2203.0 | 2216.1 | 2265.5 | 2352.1 | 2502.0 | 2757.7 | 2827.3 | 3182.7 | 3485.6 |
| 22.5° | 2332.0 | 2342.8 | 2299.5 | 2261.7 | 2258.6 | 2311.1 | 2454.8 | 2717.6 | 2789.4 | 3162.6 | 3486.4 |
| 25° | 2553.8 | 2560.7 | 2488.1 | 2400.0 | 2314.2 | 2296.4 | 2421.6 | 2689.7 | 2766.2 | 3144.9 | 3471.7 |
| 27.5° | 2825.7 | 2831.2 | 2747.7 | 2617.9 | 2445.6 | 2331.2 | 2410.0 | 2673.5 | 2753.1 | 3129.4 | 3447.0 |
| 30° | 3156.5 | 3182.0 | 3069.9 | 2906.1 | 2655.0 | 2434.0 | 2433.2 | 2665.0 | 2738.4 | 3103.1 | 3398.3 |
| 32.5° | 3494.9 | 3505.7 | 3428.4 | 3262.3 | 2937.0 | 2614.8 | 2498.1 | 2671.2 | 2734.6 | 3071.5 | 3336.5 |
| 35° | 3838.0 | 3851.9 | 3801.7 | 3668.0 | 3322.6 | 2879.8 | 2624.8 | 2707.5 | 2758.5 | 3060.6 | 3293.2 |
| 37.5° | 4282.3 | 4300.8 | 4231.3 | 4076.7 | 3791.6 | 3239.1 | 2835.8 | 2798.7 | 2831.9 | 3091.5 | 3280.1 |
| 40° | 4984.7 | 4976.2 | 4772.9 | 4542.7 | 4304.7 | 3698.9 | 3137.1 | 2953.2 | 2972.6 | 3191.2 | 3320.3 |
| 42.5° | 5802.2 | 5781.3 | 5431.3 | 5069.6 | 4868.7 | 4255.2 | 3535.8 | 3221.4 | 3217.5 | 3387.5 | 3461.7 |
| 45° | 6454.3 | 6437.3 | 6122.1 | 5676.2 | 5515.5 | 4888.8 | 4051.2 | 3620.8 | 3592.3 | 3698.9 | 3722.8 |
| 47.5° | 6807.4 | 6808.2 | 6626.6 | 6262.7 | 6258.8 | 5694.0 | 4713.4 | 4198.8 | 4149.4 | 4199.6 | 4174.1 |
| 50° | 6683.8 | 6700.0 | 6680.7 | 6564.8 | 6937.2 | 6749.5 | 5578.1 | 5004.7 | 4905.1 | 4954.5 | 4856.4 |
| 52.5° | 6085.7 | 6106.6 | 6221.0 | 6398.7 | 7222.4 | 8025.2 | 6848.4 | 6006.2 | 5890.2 | 5872.5 | 5763.5 |
| 55° | 5025.6 | 5051.1 | 5284.5 | 5767.4 | 6985.2 | 8882.1 | 8852.8 | 7282.6 | 7098.0 | 6930.3 | 6883.9 |
| 57.5° | 3464.0 | 3506.5 | 3882.0 | 4599.1 | 6217.9 | 9141.0 | 11239.6 | 9102.3 | 8726.8 | 8141.1 | 8151.9 |
| 60° | 1952.6 | 2002.1 | 2444.8 | 3096.2 | 4669.4 | 8859.7 | 13055.4 | 11858.5 | 11065.8 | 9559.0 | 9639.4 |
| 62.5° | 1241.7 | 1295.0 | 1631.2 | 2151.2 | 2801.8 | 7345.2 | 13799.5 | 15690.3 | 14683.5 | 11306.8 | 11385.7 |
| 65° | 1005.3 | 1028.5 | 1186.9 | 1775.7 | 2034.5 | 4425.2 | 13234.7 | 18846.8 | 18471.3 | 13525.2 | 13157.4 |
| 67.5° | 981.3 | 989.0 | 1071.0 | 1490.5 | 1951.1 | 2487.3 | 10556.5 | 19437.1 | 19853.6 | 15596.8 | 13895.4 |
| 70° | 969.7 | 996.8 | 1206.9 | 1422.5 | 1868.4 | 2097.9 | 6343.8 | 17819.1 | 18476.7 | 16138.5 | 12913.3 |
| 72.5° | 470.6 | 469.0 | 607.3 | 1286.5 | 2104.8 | 2175.9 | 3259.2 | 14417.7 | 15077.6 | 13981.9 | 10611.4 |
| 75° | 379.4 | 346.9 | 331.5 | 471.3 | 2023.7 | 2247.0 | 2077.0 | 9920.6 | 10398.1 | 9374.3 | 6523.1 |
| 77.5° | 360.1 | 321.4 | 294.4 | 295.2 | 855.4 | 2383.0 | 1759.4 | 5490.8 | 5629.9 | 4234.4 | 1787.2 |
| 80° | 298.3 | 262.7 | 243.4 | 274.3 | 414.2 | 2269.4 | 1902.4 | 2485.0 | 2280.2 | 1040.0 | 595.0 |
| 82.5° | 207.1 | 188.5 | 183.1 | 230.3 | 331.5 | 1617.2 | 2212.2 | 1335.2 | 1119.6 | 520.8 | 367.0 |
| 85° | 132.1 | 112.8 | 125.2 | 167.7 | 258.1 | 746.4 | 2278.7 | 1040.8 | 827.6 | 330.7 | 207.1 |
| 87.5° | 61.0 | 49.5 | 61.8 | 92.7 | 168.4 | 257.3 | 2168.2 | 1169.1 | 852.3 | 174.6 | 130.6 |
| 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° | 3379.8 | 3379.8 | 3379.8 | 3379.8 | 3379.8 | 3379.8 | 3379.8 | 3379.8 | 3379.8 | 3379.8 | 3379.8 |
| 2.5° | 3381.3 | 3366.6 | 3355.0 | 3333.4 | 3309.4 | 3286.3 | 3265.4 | 3239.1 | 3231.4 | 3224.5 | 3235.3 |
| 5° | 3392.1 | 3377.4 | 3334.9 | 3268.5 | 3195.1 | 3126.3 | 3057.6 | 2998.8 | 2962.5 | 2942.4 | 2954.0 |
| 7.5° | 3408.4 | 3387.5 | 3299.4 | 3177.3 | 3045.2 | 2924.6 | 2800.2 | 2700.6 | 2627.2 | 2592.4 | 2602.4 |
| 10° | 3423.0 | 3382.9 | 3239.1 | 3056.0 | 2862.8 | 2683.6 | 2487.3 | 2325.0 | 2204.5 | 2141.1 | 2156.6 |
| 12.5° | 3429.2 | 3365.1 | 3154.9 | 2904.6 | 2639.5 | 2376.8 | 2087.8 | 1845.2 | 1672.1 | 1608.7 | 1595.6 |
| 15° | 3435.4 | 3345.0 | 3062.2 | 2732.2 | 2369.9 | 1998.2 | 1593.3 | 1302.8 | 1159.0 | 1127.4 | 1120.4 |
| 17.5° | 3436.9 | 3310.2 | 2957.1 | 2545.3 | 2053.8 | 1547.7 | 1089.5 | 904.8 | 905.6 | 956.6 | 962.8 |
| 20° | 3420.7 | 3258.5 | 2829.6 | 2312.7 | 1675.2 | 1070.2 | 748.0 | 716.3 | 833.0 | 960.5 | 975.9 |
| 22.5° | 3383.6 | 3189.7 | 2685.1 | 2041.5 | 1241.7 | 704.7 | 578.7 | 613.5 | 764.2 | 920.3 | 938.1 |
| 25° | 3336.5 | 3106.2 | 2514.3 | 1727.0 | 822.1 | 503.8 | 485.3 | 527.8 | 629.7 | 734.1 | 744.1 |
| 27.5° | 3272.4 | 3007.3 | 2322.7 | 1366.9 | 533.9 | 414.9 | 427.3 | 455.9 | 497.6 | 544.0 | 548.6 |
| 30° | 3189.7 | 2889.1 | 2118.0 | 996.8 | 403.3 | 373.2 | 391.0 | 406.4 | 424.2 | 450.5 | 452.8 |
| 32.5° | 3094.6 | 2775.5 | 1907.8 | 688.5 | 357.8 | 351.6 | 365.5 | 373.2 | 387.1 | 403.3 | 404.9 |
| 35° | 3015.1 | 2667.3 | 1689.9 | 486.8 | 338.4 | 335.3 | 344.6 | 347.7 | 360.8 | 378.6 | 380.2 |
| 37.5° | 2969.5 | 2579.3 | 1465.0 | 392.5 | 325.3 | 320.7 | 326.1 | 326.1 | 344.6 | 370.9 | 374.8 |
| 40° | 2972.6 | 2530.6 | 1240.2 | 354.7 | 314.5 | 308.3 | 309.1 | 309.1 | 333.0 | 361.6 | 363.9 |
| 42.5° | 3056.8 | 2542.9 | 1040.8 | 340.0 | 306.0 | 299.0 | 295.2 | 297.5 | 317.6 | 336.1 | 337.7 |
| 45° | 3254.6 | 2630.3 | 853.8 | 330.7 | 297.5 | 295.2 | 286.7 | 285.9 | 293.6 | 302.1 | 302.1 |
| 47.5° | 3579.1 | 2802.6 | 727.1 | 324.5 | 290.5 | 289.8 | 279.7 | 269.7 | 268.9 | 272.0 | 272.0 |
| 50° | 4106.9 | 3099.3 | 642.1 | 317.6 | 285.9 | 279.7 | 268.1 | 252.7 | 247.3 | 249.6 | 249.6 |
| 52.5° | 4898.1 | 3628.6 | 609.7 | 308.3 | 275.9 | 265.8 | 252.7 | 237.2 | 232.6 | 233.4 | 233.4 |
| 55° | 5935.8 | 4441.4 | 605.0 | 297.5 | 265.0 | 248.8 | 238.0 | 226.4 | 221.0 | 222.5 | 222.5 |
| 57.5° | 7203.8 | 5565.7 | 687.7 | 280.5 | 250.4 | 231.8 | 225.6 | 217.9 | 214.0 | 216.4 | 215.6 |
| 60° | 8745.4 | 7036.9 | 1020.0 | 262.7 | 235.7 | 216.4 | 216.4 | 210.2 | 207.1 | 209.4 | 208.6 |
| 62.5° | 10521.0 | 8726.8 | 1434.1 | 249.6 | 220.2 | 204.0 | 207.1 | 204.0 | 200.9 | 202.4 | 201.7 |
| 65° | 12095.8 | 9827.9 | 1342.9 | 239.5 | 204.8 | 192.4 | 197.8 | 196.3 | 193.9 | 195.5 | 194.7 |
| 67.5° | 12141.3 | 9419.9 | 754.1 | 228.7 | 190.1 | 180.8 | 188.5 | 187.8 | 186.2 | 187.8 | 187.0 |
| 70° | 10835.5 | 7954.1 | 425.0 | 208.6 | 174.6 | 166.9 | 177.7 | 176.9 | 175.4 | 178.5 | 177.7 |
| 72.5° | 8681.2 | 5772.0 | 310.6 | 183.9 | 159.2 | 152.2 | 164.6 | 163.8 | 163.8 | 168.4 | 166.1 |
| 75° | 4995.5 | 2970.2 | 248.0 | 157.6 | 142.9 | 137.5 | 148.4 | 149.1 | 150.7 | 156.9 | 152.2 |
| 77.5° | 1424.1 | 925.7 | 202.4 | 133.7 | 122.9 | 120.5 | 131.4 | 132.9 | 133.7 | 140.6 | 134.4 |
| 80° | 529.3 | 426.5 | 166.9 | 112.0 | 100.5 | 101.2 | 111.3 | 113.6 | 114.4 | 121.3 | 113.6 |
| 82.5° | 337.7 | 281.3 | 135.2 | 86.5 | 78.8 | 78.0 | 90.4 | 93.5 | 93.5 | 94.3 | 89.6 |
| 85° | 197.0 | 168.4 | 102.0 | 62.6 | 55.6 | 53.3 | 67.2 | 72.6 | 70.3 | 68.8 | 65.7 |
| 87.5° | 132.1 | 115.9 | 62.6 | 34.8 | 30.1 | 28.6 | 39.4 | 43.3 | 41.7 | 39.4 | 37.1 |
| 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)