

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: P268507

Luminaire Tested: **GAN-AF-05-LED-U-SL2-7027-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268507
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
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-SL2-7027-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14105.9 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - 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

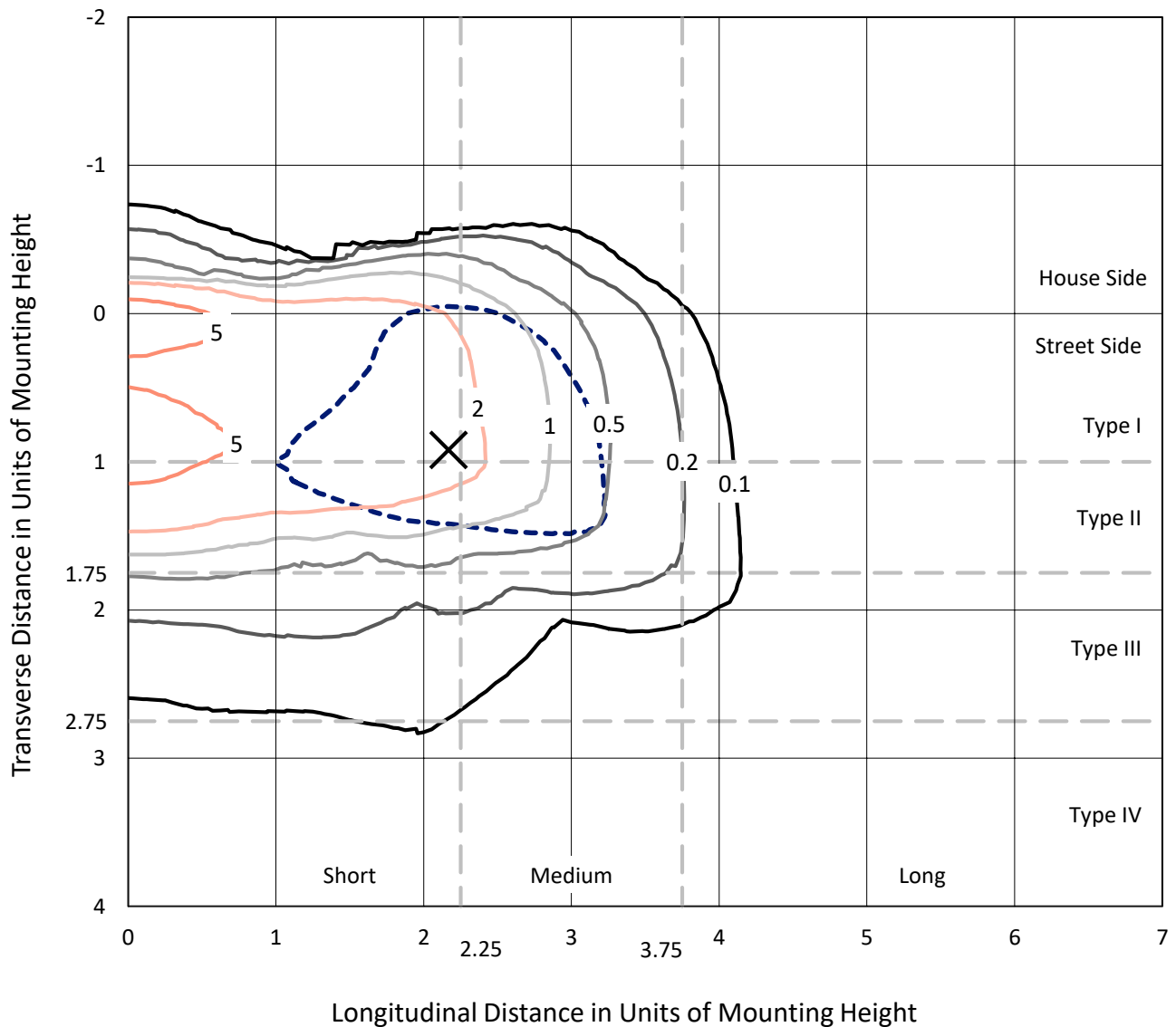


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

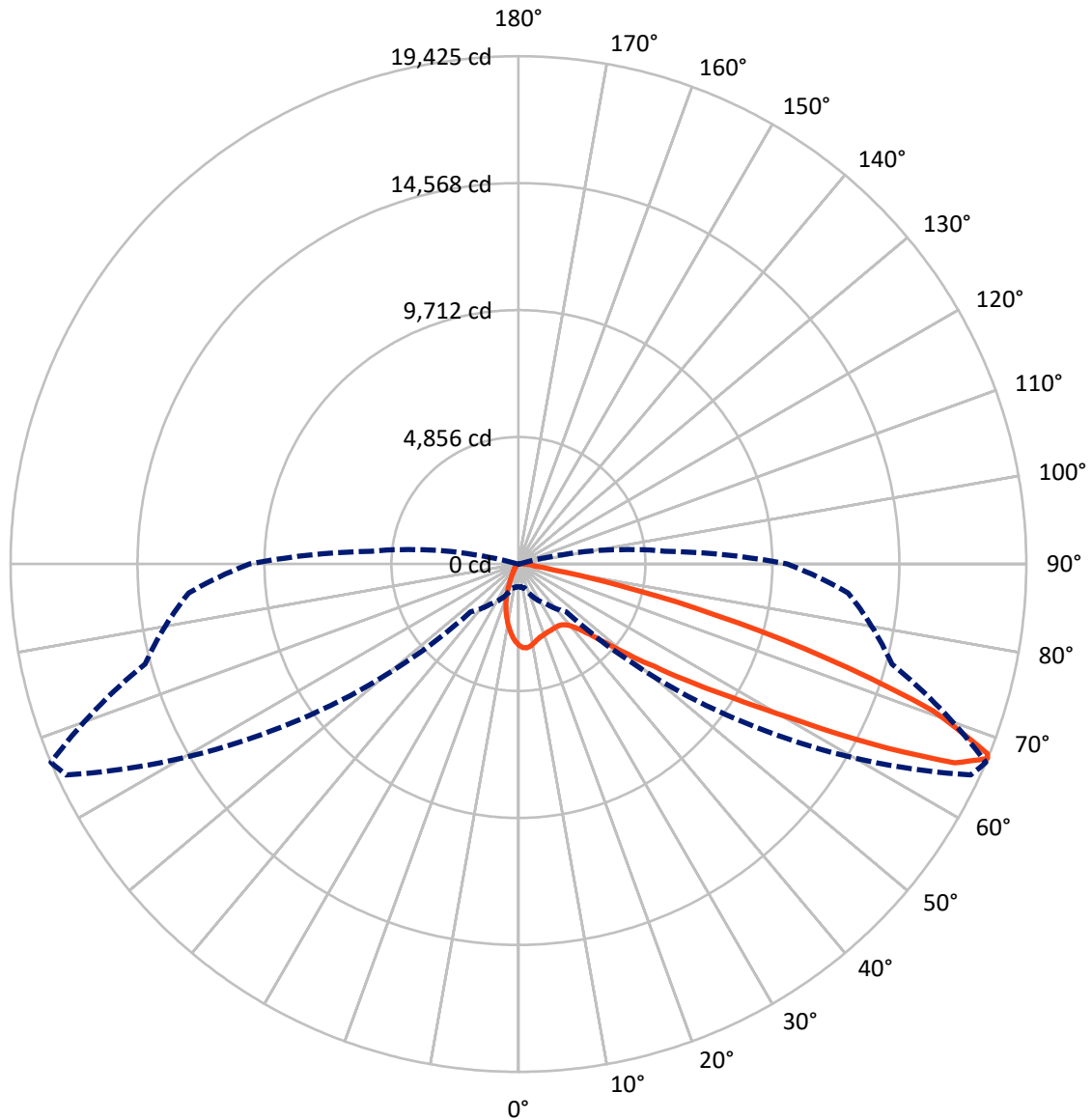


Based on 20 foot mounting height. Maximum calculated value = 7.8 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1464.6 | 0.0 | 1464.6 |
| | % Fixture | 10.4 | 0.0 | 10.4 |
| Street Side | Lumens | 12641.2 | 0.0 | 12641.2 |
| | % Fixture | 89.6 | 0.0 | 89.6 |
| Total | Lumens | 14105.9 | 0.0 | 14105.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 253.1 | 1.8 |
| 10°-20° | 538.7 | 3.8 |
| 20°-30° | 783.3 | 5.6 |
| 30°-40° | 1222.0 | 8.7 |
| 40°-50° | 2164.7 | 15.3 |
| 50°-60° | 3425.3 | 24.3 |
| 60°-70° | 3923.3 | 27.8 |
| 70°-80° | 1627.4 | 11.5 |
| 80°-90° | 168.1 | 1.2 |
| 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° | 14105.9 | 100.0 |
| 0°-180° | 14105.9 | 100.0 |

Coefficient of Utilization



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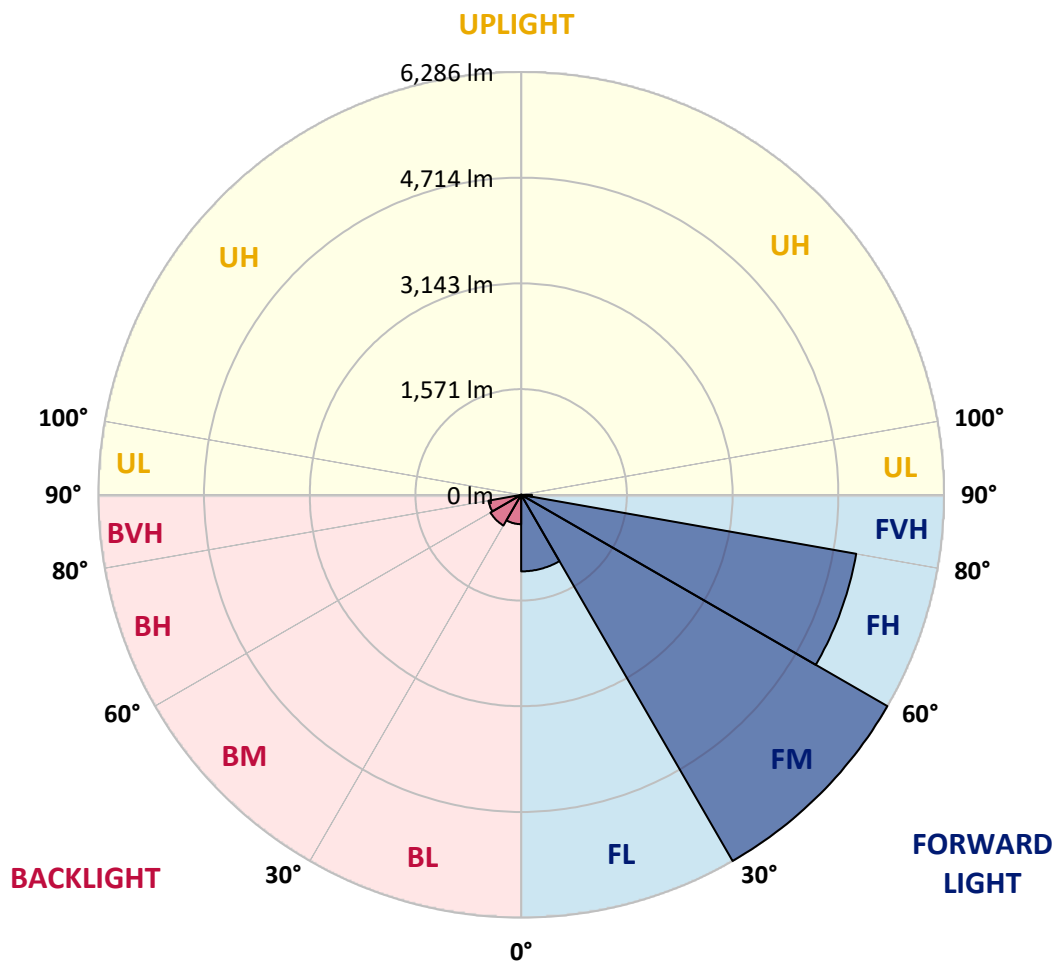
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1138.1 | 8.1 | | | |
| FM (30°-60°) | 6285.6 | 44.6 | | | |
| FH (60°-80°) | 5057.0 | 35.9 | | | G3/7500 |
| FVH (80°-90°) | 160.5 | 1.1 | | | G2/225 |
| BL (0°-30°) | 437.0 | 3.1 | B1/500 | | |
| BM (30°-60°) | 526.4 | 3.7 | B1/1000 | | |
| BH (60°-80°) | 493.6 | 3.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 7.6 | 0.1 | | | 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 II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0° | 3110.9 | 3110.9 | 3110.9 | 3110.9 | 3110.9 | 3110.9 | 3110.9 | 3110.9 | 3110.9 | 3110.9 | 3110.9 |
| 2.5° | 3216.2 | 3222.8 | 3222.0 | 3226.9 | 3238.4 | 3239.2 | 3227.7 | 3205.5 | 3200.5 | 3171.7 | 3121.6 |
| 5° | 2966.1 | 2985.0 | 2996.4 | 3043.4 | 3096.1 | 3159.3 | 3207.0 | 3224.3 | 3222.0 | 3201.4 | 3125.7 |
| 7.5° | 2680.5 | 2699.4 | 2712.6 | 2767.8 | 2837.7 | 2946.4 | 3070.5 | 3172.5 | 3181.5 | 3203.9 | 3122.4 |
| 10° | 2490.6 | 2493.8 | 2511.9 | 2564.5 | 2637.8 | 2748.9 | 2896.9 | 3075.4 | 3102.7 | 3184.1 | 3114.2 |
| 12.5° | 2334.2 | 2336.6 | 2360.4 | 2417.2 | 2495.4 | 2607.3 | 2762.8 | 2969.3 | 3011.3 | 3159.3 | 3112.4 |
| 15° | 2223.0 | 2232.2 | 2253.6 | 2312.7 | 2395.9 | 2507.0 | 2666.6 | 2891.1 | 2941.4 | 3150.4 | 3127.3 |
| 17.5° | 2186.0 | 2195.9 | 2202.6 | 2245.4 | 2321.0 | 2429.6 | 2593.3 | 2840.3 | 2896.9 | 3155.2 | 3156.1 |
| 20° | 2224.7 | 2232.2 | 2217.3 | 2228.1 | 2275.0 | 2372.1 | 2531.7 | 2796.6 | 2864.1 | 3161.0 | 3193.1 |
| 22.5° | 2368.7 | 2372.1 | 2331.7 | 2284.7 | 2276.6 | 2330.1 | 2483.1 | 2762.0 | 2834.4 | 3176.6 | 3236.8 |
| 25° | 2615.5 | 2609.8 | 2544.0 | 2442.9 | 2347.4 | 2322.7 | 2454.3 | 2740.5 | 2819.6 | 3193.1 | 3282.0 |
| 27.5° | 2913.5 | 2921.6 | 2831.1 | 2683.9 | 2502.0 | 2372.1 | 2450.1 | 2731.6 | 2813.0 | 3204.7 | 3321.6 |
| 30° | 3275.4 | 3286.9 | 3183.2 | 2998.2 | 2737.3 | 2493.8 | 2488.0 | 2729.9 | 2808.9 | 3197.2 | 3324.7 |
| 32.5° | 3644.9 | 3658.8 | 3577.4 | 3386.5 | 3051.6 | 2697.8 | 2573.6 | 2748.1 | 2817.2 | 3171.7 | 3305.9 |
| 35° | 4031.6 | 4051.3 | 3997.0 | 3833.2 | 3477.8 | 2992.3 | 2724.2 | 2803.2 | 2855.8 | 3169.3 | 3286.9 |
| 37.5° | 4565.5 | 4583.6 | 4481.6 | 4308.0 | 3993.7 | 3387.2 | 2966.1 | 2906.8 | 2947.1 | 3208.7 | 3291.8 |
| 40° | 5362.7 | 5360.2 | 5097.1 | 4831.3 | 4560.5 | 3889.2 | 3305.9 | 3094.4 | 3115.0 | 3328.1 | 3352.7 |
| 42.5° | 6231.6 | 6227.5 | 5838.4 | 5434.3 | 5190.0 | 4507.1 | 3752.6 | 3418.6 | 3404.5 | 3547.8 | 3510.8 |
| 45° | 6901.3 | 6900.5 | 6582.9 | 6127.9 | 5947.8 | 5216.3 | 4330.2 | 3869.4 | 3848.1 | 3904.8 | 3801.9 |
| 47.5° | 7186.8 | 7191.8 | 7032.1 | 6712.0 | 6787.9 | 6175.7 | 5058.4 | 4522.7 | 4490.6 | 4467.6 | 4311.2 |
| 50° | 6964.6 | 6974.5 | 6987.7 | 6925.2 | 7404.0 | 7464.9 | 6035.0 | 5443.4 | 5427.7 | 5325.0 | 5080.5 |
| 52.5° | 6239.0 | 6289.3 | 6443.9 | 6642.2 | 7617.9 | 8702.3 | 7566.2 | 6587.0 | 6503.1 | 6393.6 | 6124.6 |
| 55° | 5016.3 | 5071.6 | 5365.2 | 5846.6 | 7299.5 | 9515.2 | 9711.8 | 8061.4 | 7921.6 | 7594.9 | 7206.6 |
| 57.5° | 3319.9 | 3405.5 | 3831.6 | 4443.7 | 6374.7 | 9646.1 | 11852.6 | 10107.5 | 9620.6 | 8726.2 | 8288.5 |
| 60° | 1828.9 | 1911.2 | 2373.7 | 2928.2 | 4604.2 | 8999.4 | 13292.5 | 12771.7 | 11911.2 | 9990.8 | 9602.4 |
| 62.5° | 1126.4 | 1170.9 | 1512.2 | 2028.2 | 2761.2 | 7102.9 | 13590.4 | 16119.5 | 15123.1 | 11619.0 | 11189.6 |
| 65° | 896.8 | 915.7 | 1082.7 | 1657.8 | 1979.5 | 4224.9 | 12628.6 | 18671.7 | 18339.3 | 13590.4 | 12610.4 |
| 67° | 870.5 | 878.0 | 956.9 | 1423.4 | 1866.0 | 2590.1 | 10579.9 | 19087.2 | 19424.6 | 14783.3 | 12655.0 |
| 67.5° | 876.2 | 884.6 | 959.3 | 1358.3 | 1862.7 | 2380.2 | 9874.0 | 18923.5 | 19349.8 | 14878.0 | 12458.2 |
| 70° | 844.9 | 870.5 | 1098.4 | 1357.6 | 1771.4 | 1977.9 | 5913.3 | 16396.0 | 16839.4 | 13824.0 | 10570.9 |
| 72.5° | 299.4 | 301.1 | 474.8 | 1098.4 | 1926.1 | 1999.3 | 2969.3 | 12019.7 | 12348.0 | 10574.9 | 7621.2 |
| 75° | 177.8 | 151.4 | 158.0 | 312.6 | 1840.4 | 1941.7 | 1713.0 | 7680.5 | 7803.0 | 6059.6 | 3859.6 |
| 77.5° | 122.6 | 107.0 | 110.2 | 138.2 | 700.9 | 1914.6 | 1360.8 | 4005.3 | 3874.4 | 2125.2 | 821.9 |
| 80° | 70.0 | 61.8 | 65.8 | 120.9 | 255.1 | 1786.2 | 1283.5 | 1624.1 | 1384.6 | 360.4 | 227.1 |
| 82.5° | 37.0 | 31.4 | 37.9 | 99.5 | 177.8 | 1113.2 | 1286.0 | 784.8 | 621.9 | 121.8 | 154.7 |
| 85° | 13.1 | 10.7 | 18.1 | 68.4 | 118.4 | 341.4 | 1192.2 | 659.9 | 518.3 | 59.3 | 117.7 |
| 87.5° | 2.4 | 2.4 | 7.4 | 27.9 | 47.7 | 104.6 | 705.1 | 391.7 | 262.5 | 35.4 | 80.7 |
| 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° | 3110.9 | 3110.9 | 3110.9 | 3110.9 | 3110.9 | 3110.9 | 3110.9 | 3110.9 | 3110.9 | 3110.9 | 3110.9 |
| 2.5° | 3100.9 | 3065.6 | 3017.9 | 2959.5 | 2890.3 | 2829.5 | 2784.2 | 2737.3 | 2727.4 | 2711.1 | 2708.5 |
| 5° | 3080.4 | 3019.6 | 2901.0 | 2765.3 | 2620.4 | 2489.7 | 2383.6 | 2288.9 | 2247.0 | 2210.8 | 2206.6 |
| 7.5° | 3049.9 | 2958.7 | 2757.1 | 2538.3 | 2312.0 | 2106.3 | 1931.8 | 1808.5 | 1694.9 | 1640.6 | 1632.4 |
| 10° | 3014.6 | 2883.7 | 2595.1 | 2291.3 | 1978.7 | 1688.4 | 1429.2 | 1212.0 | 1080.3 | 1002.1 | 992.3 |
| 12.5° | 2981.7 | 2810.5 | 2429.6 | 2035.5 | 1620.1 | 1231.7 | 898.5 | 691.2 | 552.8 | 496.9 | 490.4 |
| 15° | 2966.1 | 2751.2 | 2275.0 | 1773.9 | 1244.8 | 784.1 | 491.3 | 380.2 | 334.9 | 321.8 | 320.9 |
| 17.5° | 2964.3 | 2701.2 | 2123.6 | 1503.1 | 872.2 | 455.8 | 320.1 | 292.0 | 283.1 | 279.7 | 279.7 |
| 20° | 2963.6 | 2653.5 | 1972.1 | 1222.7 | 553.7 | 303.5 | 266.5 | 260.0 | 253.4 | 249.3 | 249.3 |
| 22.5° | 2972.6 | 2610.7 | 1814.1 | 936.4 | 348.8 | 246.0 | 234.5 | 227.9 | 219.6 | 213.9 | 213.1 |
| 25° | 2981.7 | 2577.6 | 1652.9 | 666.5 | 252.7 | 213.9 | 202.4 | 193.3 | 181.8 | 174.5 | 173.6 |
| 27.5° | 2983.4 | 2536.5 | 1480.1 | 446.0 | 211.5 | 186.8 | 171.9 | 158.0 | 144.7 | 137.4 | 136.6 |
| 30° | 2958.7 | 2467.5 | 1288.4 | 301.1 | 186.8 | 162.1 | 142.3 | 127.5 | 115.3 | 109.5 | 109.5 |
| 32.5° | 2910.1 | 2381.9 | 1077.8 | 227.1 | 166.1 | 139.1 | 117.7 | 103.7 | 95.4 | 93.0 | 92.2 |
| 35° | 2866.5 | 2289.7 | 861.5 | 192.5 | 148.8 | 117.7 | 96.3 | 87.2 | 82.3 | 81.4 | 80.7 |
| 37.5° | 2841.0 | 2215.7 | 658.2 | 174.5 | 132.5 | 98.8 | 81.4 | 74.9 | 72.5 | 70.7 | 71.5 |
| 40° | 2860.7 | 2154.0 | 486.3 | 159.5 | 116.1 | 82.3 | 69.1 | 65.8 | 63.3 | 62.5 | 62.5 |
| 42.5° | 2947.1 | 2143.3 | 361.2 | 146.5 | 100.4 | 68.4 | 60.0 | 57.6 | 56.0 | 55.2 | 56.0 |
| 45° | 3174.3 | 2209.1 | 280.6 | 134.0 | 84.7 | 57.6 | 51.1 | 50.1 | 49.3 | 49.3 | 49.3 |
| 47.5° | 3515.6 | 2344.8 | 233.6 | 120.2 | 70.7 | 49.3 | 44.5 | 43.6 | 42.8 | 43.6 | 43.6 |
| 50° | 4094.0 | 2593.3 | 208.9 | 106.1 | 58.4 | 42.0 | 37.9 | 37.9 | 37.9 | 37.9 | 38.6 |
| 52.5° | 4973.6 | 3082.1 | 192.5 | 92.2 | 47.7 | 35.4 | 32.1 | 32.1 | 32.9 | 32.9 | 33.7 |
| 55° | 5953.4 | 3730.4 | 177.8 | 78.2 | 40.3 | 29.6 | 26.3 | 27.2 | 27.9 | 28.7 | 28.7 |
| 57.5° | 7016.5 | 4448.6 | 165.4 | 64.1 | 34.6 | 23.9 | 22.2 | 23.0 | 23.9 | 25.5 | 25.5 |
| 60° | 8299.3 | 5226.2 | 147.3 | 50.1 | 28.7 | 19.0 | 17.2 | 19.0 | 21.4 | 23.0 | 23.9 |
| 62.5° | 9707.8 | 5978.2 | 124.2 | 39.4 | 23.9 | 14.8 | 14.1 | 17.2 | 20.7 | 22.2 | 23.0 |
| 65° | 10670.3 | 6214.4 | 95.4 | 32.1 | 18.1 | 10.7 | 11.5 | 15.6 | 19.8 | 22.2 | 22.2 |
| 67° | 10280.5 | 5634.3 | 78.2 | 27.2 | 14.8 | 8.3 | 10.7 | 15.6 | 19.8 | 21.4 | 22.2 |
| 67.5° | 10009.8 | 5407.2 | 74.9 | 26.3 | 14.1 | 8.3 | 10.7 | 15.6 | 19.8 | 22.2 | 22.2 |
| 70° | 8144.6 | 4062.0 | 62.5 | 19.8 | 11.5 | 7.4 | 9.1 | 14.8 | 19.0 | 21.4 | 21.4 |
| 72.5° | 5659.0 | 2504.5 | 56.0 | 14.1 | 9.9 | 6.6 | 8.3 | 14.1 | 18.1 | 20.7 | 21.4 |
| 75° | 2690.5 | 906.7 | 47.7 | 10.7 | 9.1 | 5.7 | 7.4 | 14.1 | 18.1 | 20.7 | 20.7 |
| 77.5° | 548.8 | 210.7 | 38.6 | 9.1 | 7.4 | 5.7 | 6.6 | 13.1 | 17.2 | 19.8 | 19.8 |
| 80° | 180.2 | 81.4 | 28.7 | 8.3 | 7.4 | 5.7 | 6.6 | 12.3 | 17.2 | 19.0 | 19.8 |
| 82.5° | 130.0 | 41.1 | 19.0 | 8.3 | 7.4 | 5.7 | 5.7 | 12.3 | 16.4 | 19.0 | 19.0 |
| 85° | 99.5 | 28.7 | 12.3 | 8.3 | 7.4 | 5.7 | 5.7 | 11.5 | 15.6 | 18.1 | 18.1 |
| 87.5° | 65.8 | 11.5 | 9.9 | 8.3 | 7.4 | 5.7 | 5.7 | 11.5 | 14.8 | 17.2 | 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)