

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: P268352

Luminaire Tested: **GAN-AF-03-LED-U-SL2-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268352
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-03-LED-U-SL2-7027-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1050mA 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: 13077.2 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 166
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

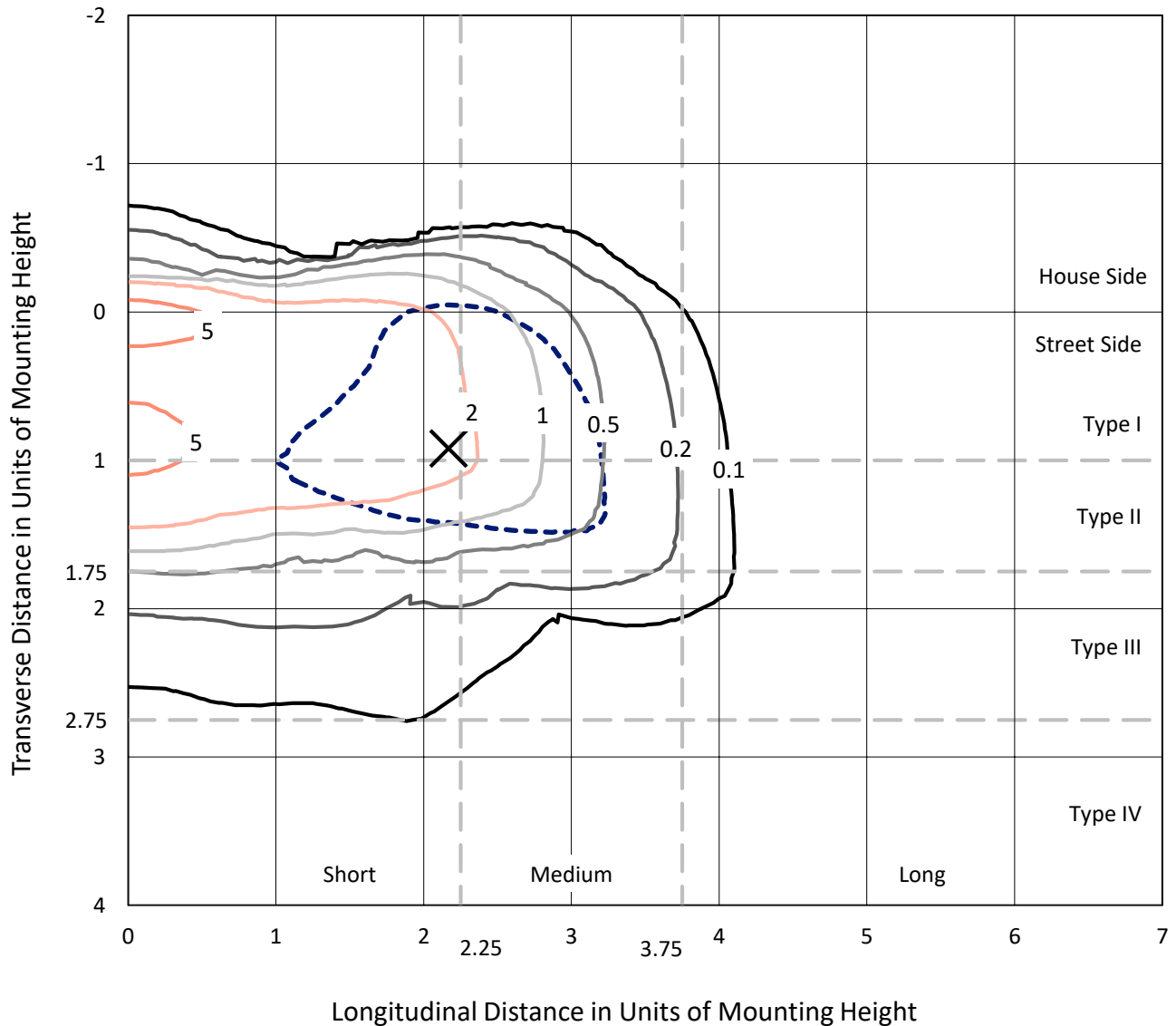


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Iso-Footcandle Lines of Horizontal Illumination

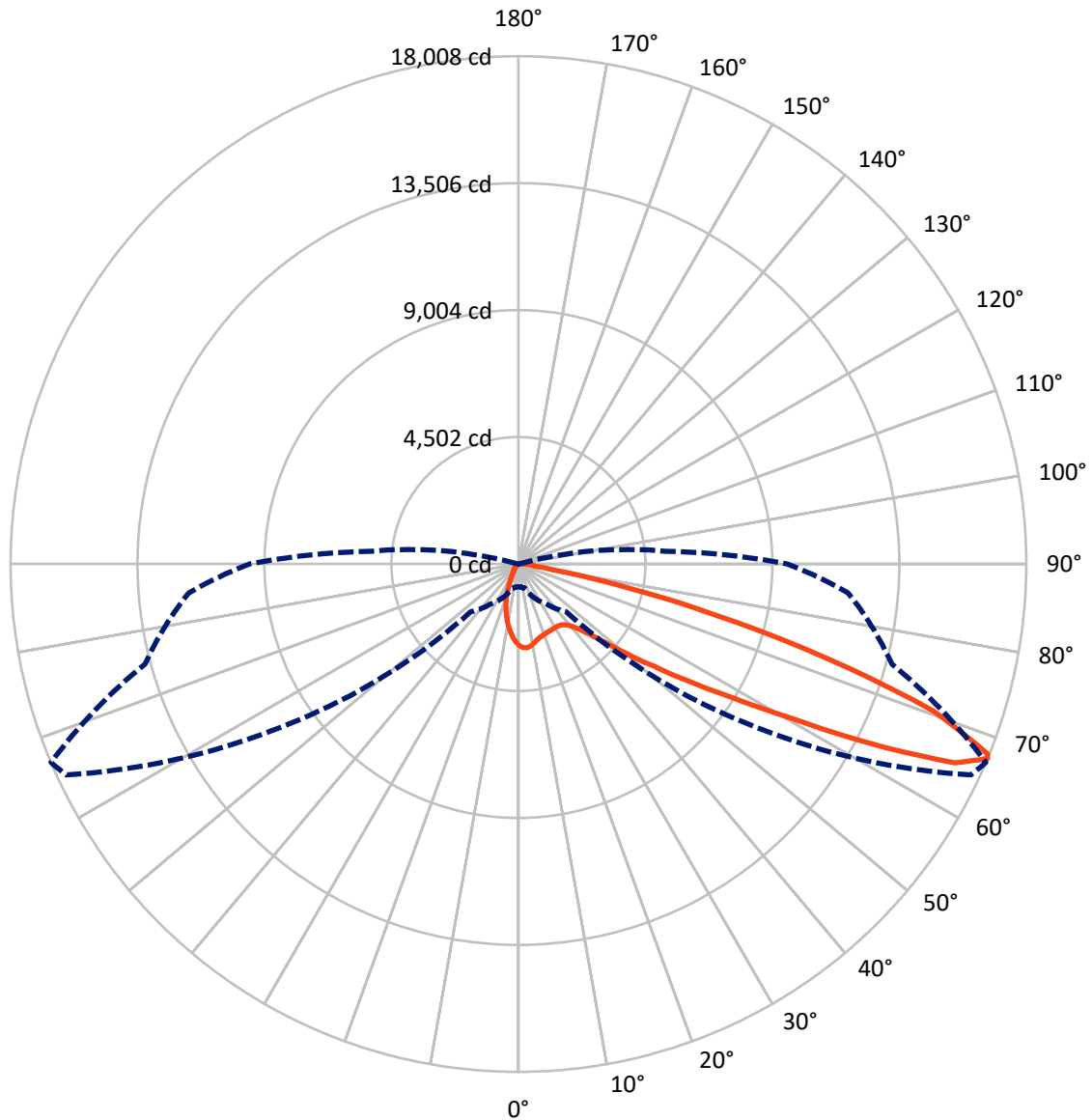
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.2 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 | 1357.8 | 0.0 | 1357.8 |
| | % Fixture | 10.4 | 0.0 | 10.4 |
| Street Side | Lumens | 11719.4 | 0.0 | 11719.4 |
| | % Fixture | 89.6 | 0.0 | 89.6 |
| Total | Lumens | 13077.2 | 0.0 | 13077.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 234.7 | 1.8 |
| 10°-20° | 499.5 | 3.8 |
| 20°-30° | 726.2 | 5.6 |
| 30°-40° | 1132.9 | 8.7 |
| 40°-50° | 2006.8 | 15.3 |
| 50°-60° | 3175.6 | 24.3 |
| 60°-70° | 3637.2 | 27.8 |
| 70°-80° | 1508.7 | 11.5 |
| 80°-90° | 155.8 | 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° | 13077.2 | 100.0 |
| 0°-180° | 13077.2 | 100.0 |

Coefficient of Utilization



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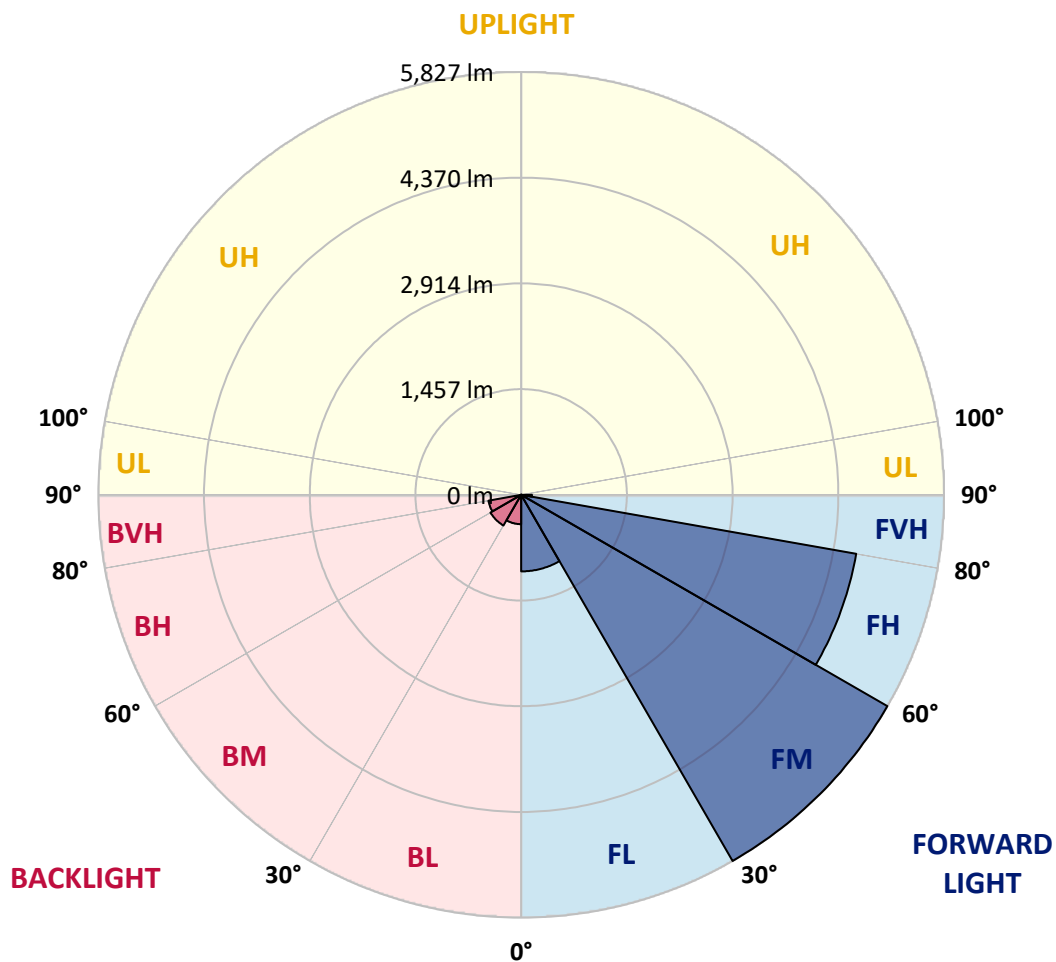
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1055.1 | 8.1 | | | |
| FM | (30°-60°) | 5827.2 | 44.6 | | | |
| FH | (60°-80°) | 4688.2 | 35.9 | | | G2/5000 |
| FVH | (80°-90°) | 148.8 | 1.1 | | | G2/225 |
| BL | (0°-30°) | 405.2 | 3.1 | B1/500 | | |
| BM | (30°-60°) | 488.0 | 3.7 | B1/1000 | | |
| BH | (60°-80°) | 457.6 | 3.5 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 7.0 | 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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0° | 2884.0 | 2884.0 | 2884.0 | 2884.0 | 2884.0 | 2884.0 | 2884.0 | 2884.0 | 2884.0 | 2884.0 | 2884.0 |
| 2.5° | 2981.7 | 2987.8 | 2987.0 | 2991.5 | 3002.2 | 3003.0 | 2992.3 | 2971.8 | 2967.1 | 2940.4 | 2893.9 |
| 5° | 2749.8 | 2767.3 | 2778.0 | 2821.4 | 2870.3 | 2929.1 | 2973.3 | 2989.3 | 2987.0 | 2967.9 | 2897.8 |
| 7.5° | 2485.2 | 2502.7 | 2514.8 | 2566.0 | 2630.7 | 2731.4 | 2846.6 | 2941.2 | 2949.7 | 2970.2 | 2894.7 |
| 10° | 2309.0 | 2312.0 | 2328.8 | 2377.5 | 2445.5 | 2548.4 | 2685.8 | 2851.2 | 2876.5 | 2951.9 | 2887.1 |
| 12.5° | 2163.9 | 2166.3 | 2188.5 | 2241.0 | 2313.4 | 2417.2 | 2561.3 | 2752.9 | 2791.8 | 2929.1 | 2885.5 |
| 15° | 2061.0 | 2069.3 | 2089.2 | 2144.2 | 2221.1 | 2324.2 | 2472.1 | 2680.4 | 2726.8 | 2920.6 | 2899.3 |
| 17.5° | 2026.7 | 2035.7 | 2041.9 | 2081.6 | 2151.8 | 2252.4 | 2404.3 | 2633.0 | 2685.8 | 2925.2 | 2926.0 |
| 20° | 2062.5 | 2069.3 | 2055.6 | 2065.6 | 2109.0 | 2199.1 | 2347.0 | 2592.7 | 2655.2 | 2930.5 | 2960.3 |
| 22.5° | 2195.9 | 2199.1 | 2161.7 | 2118.3 | 2110.6 | 2160.2 | 2302.0 | 2560.6 | 2627.7 | 2945.1 | 3000.7 |
| 25° | 2424.9 | 2419.4 | 2358.5 | 2264.6 | 2176.1 | 2153.2 | 2275.3 | 2540.8 | 2614.0 | 2960.3 | 3042.6 |
| 27.5° | 2700.9 | 2708.6 | 2624.7 | 2488.1 | 2319.6 | 2199.1 | 2271.5 | 2532.4 | 2607.9 | 2971.0 | 3079.3 |
| 30° | 3036.6 | 3047.2 | 2951.1 | 2779.5 | 2537.7 | 2312.0 | 2306.6 | 2530.9 | 2604.0 | 2964.0 | 3082.4 |
| 32.5° | 3379.1 | 3392.0 | 3316.5 | 3139.5 | 2829.1 | 2501.2 | 2385.9 | 2547.7 | 2611.7 | 2940.4 | 3064.7 |
| 35° | 3737.6 | 3755.9 | 3705.5 | 3553.8 | 3224.1 | 2774.1 | 2525.6 | 2598.7 | 2647.6 | 2938.1 | 3047.2 |
| 37.5° | 4232.5 | 4249.3 | 4154.8 | 3993.9 | 3702.5 | 3140.4 | 2749.8 | 2694.8 | 2732.3 | 2974.7 | 3051.8 |
| 40° | 4971.7 | 4969.5 | 4725.4 | 4478.9 | 4228.1 | 3605.5 | 3064.7 | 2868.7 | 2887.8 | 3085.4 | 3108.2 |
| 42.5° | 5777.2 | 5773.3 | 5412.6 | 5038.1 | 4811.5 | 4178.5 | 3479.0 | 3169.3 | 3156.4 | 3289.1 | 3254.6 |
| 45° | 6398.1 | 6397.3 | 6102.8 | 5681.2 | 5514.1 | 4835.9 | 4014.4 | 3587.3 | 3567.4 | 3620.1 | 3524.7 |
| 47.5° | 6662.8 | 6667.3 | 6519.4 | 6222.6 | 6292.8 | 5725.3 | 4689.5 | 4192.8 | 4163.1 | 4141.8 | 3996.9 |
| 50° | 6456.7 | 6466.0 | 6478.1 | 6420.1 | 6864.0 | 6920.6 | 5595.0 | 5046.5 | 5031.9 | 4936.6 | 4710.2 |
| 52.5° | 5784.0 | 5830.5 | 5974.0 | 6157.8 | 7062.5 | 8067.8 | 7014.3 | 6106.7 | 6029.0 | 5927.5 | 5678.0 |
| 55° | 4650.5 | 4701.6 | 4973.9 | 5420.3 | 6767.2 | 8821.4 | 9003.7 | 7473.5 | 7344.0 | 7041.1 | 6681.1 |
| 57.5° | 3077.8 | 3157.2 | 3552.2 | 4119.6 | 5909.9 | 8942.6 | 10988.3 | 9370.6 | 8919.0 | 8089.9 | 7684.1 |
| 60° | 1695.6 | 1771.8 | 2200.6 | 2714.7 | 4268.4 | 8343.2 | 12323.3 | 11840.4 | 11042.5 | 9262.2 | 8902.3 |
| 62.5° | 1044.2 | 1085.4 | 1402.0 | 1880.2 | 2559.8 | 6584.9 | 12599.4 | 14944.2 | 14020.3 | 10771.8 | 10373.5 |
| 65° | 831.4 | 849.0 | 1003.8 | 1537.0 | 1835.1 | 3916.8 | 11707.7 | 17310.2 | 17002.0 | 12599.4 | 11690.9 |
| 67° | 806.9 | 813.9 | 887.0 | 1319.6 | 1730.0 | 2401.2 | 9808.5 | 17695.4 | 18008.1 | 13705.4 | 11732.1 |
| 67.5° | 812.3 | 820.0 | 889.4 | 1259.3 | 1726.9 | 2206.6 | 9154.0 | 17543.5 | 17938.8 | 13793.0 | 11549.8 |
| 70° | 783.3 | 806.9 | 1018.3 | 1258.5 | 1642.2 | 1833.7 | 5481.9 | 15200.4 | 15611.6 | 12815.9 | 9800.0 |
| 72.5° | 277.7 | 279.2 | 440.1 | 1018.3 | 1785.7 | 1853.6 | 2752.9 | 11143.2 | 11447.6 | 9803.8 | 7065.4 |
| 75° | 164.7 | 140.3 | 146.5 | 289.9 | 1706.3 | 1800.2 | 1588.1 | 7120.4 | 7234.1 | 5617.8 | 3578.0 |
| 77.5° | 113.6 | 99.2 | 102.1 | 128.2 | 649.8 | 1775.0 | 1261.6 | 3713.1 | 3591.9 | 1970.3 | 762.0 |
| 80° | 64.9 | 57.2 | 61.1 | 112.1 | 236.4 | 1655.9 | 1190.0 | 1505.6 | 1283.8 | 334.1 | 210.6 |
| 82.5° | 34.3 | 28.9 | 35.0 | 92.3 | 164.7 | 1032.1 | 1192.2 | 727.6 | 576.6 | 112.8 | 143.4 |
| 85° | 12.1 | 9.9 | 16.8 | 63.3 | 109.9 | 316.6 | 1105.3 | 611.7 | 480.6 | 54.9 | 109.1 |
| 87.5° | 2.2 | 2.2 | 6.8 | 26.0 | 44.2 | 96.8 | 653.6 | 363.1 | 243.4 | 32.8 | 74.7 |
| 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° | 2884.0 | 2884.0 | 2884.0 | 2884.0 | 2884.0 | 2884.0 | 2884.0 | 2884.0 | 2884.0 | 2884.0 | 2884.0 |
| 2.5° | 2874.8 | 2842.1 | 2797.9 | 2743.7 | 2679.6 | 2623.1 | 2581.2 | 2537.7 | 2528.5 | 2513.3 | 2511.0 |
| 5° | 2855.8 | 2799.4 | 2689.5 | 2563.7 | 2429.3 | 2308.1 | 2209.7 | 2122.1 | 2083.1 | 2049.6 | 2045.7 |
| 7.5° | 2827.5 | 2743.0 | 2556.0 | 2353.1 | 2143.4 | 1952.6 | 1791.0 | 1676.5 | 1571.2 | 1521.0 | 1513.4 |
| 10° | 2794.7 | 2673.4 | 2405.8 | 2124.3 | 1834.5 | 1565.1 | 1324.9 | 1123.6 | 1001.5 | 929.0 | 920.0 |
| 12.5° | 2764.3 | 2605.7 | 2252.4 | 1887.1 | 1501.8 | 1141.8 | 833.0 | 640.8 | 512.7 | 460.7 | 454.6 |
| 15° | 2749.8 | 2550.6 | 2109.0 | 1644.5 | 1154.1 | 726.9 | 455.4 | 352.3 | 310.5 | 298.2 | 297.5 |
| 17.5° | 2748.3 | 2504.1 | 1968.6 | 1393.6 | 808.6 | 422.6 | 296.7 | 270.7 | 262.3 | 259.3 | 259.3 |
| 20° | 2747.5 | 2459.9 | 1828.3 | 1133.5 | 513.3 | 281.4 | 247.2 | 241.0 | 234.9 | 231.1 | 231.1 |
| 22.5° | 2755.9 | 2420.3 | 1681.8 | 868.0 | 323.4 | 228.1 | 217.4 | 211.3 | 203.6 | 198.3 | 197.5 |
| 25° | 2764.3 | 2389.8 | 1532.4 | 617.9 | 234.2 | 198.3 | 187.7 | 179.2 | 168.6 | 161.8 | 160.9 |
| 27.5° | 2765.8 | 2351.7 | 1372.3 | 413.4 | 196.0 | 173.2 | 159.4 | 146.5 | 134.2 | 127.4 | 126.7 |
| 30° | 2743.0 | 2287.5 | 1194.4 | 279.2 | 173.2 | 150.2 | 132.0 | 118.2 | 106.8 | 101.5 | 101.5 |
| 32.5° | 2697.9 | 2208.3 | 999.3 | 210.6 | 154.1 | 128.8 | 109.1 | 96.1 | 88.6 | 86.1 | 85.3 |
| 35° | 2657.5 | 2122.8 | 798.7 | 178.6 | 138.1 | 109.1 | 89.2 | 80.8 | 76.3 | 75.5 | 74.7 |
| 37.5° | 2633.8 | 2054.2 | 610.2 | 161.8 | 122.8 | 91.5 | 75.5 | 69.3 | 67.2 | 65.5 | 66.4 |
| 40° | 2652.2 | 1996.9 | 450.8 | 148.0 | 107.5 | 76.3 | 64.0 | 61.1 | 58.7 | 58.0 | 58.0 |
| 42.5° | 2732.3 | 1987.1 | 334.9 | 135.7 | 93.1 | 63.3 | 55.7 | 53.4 | 51.8 | 51.2 | 51.8 |
| 45° | 2942.8 | 2048.0 | 260.1 | 124.3 | 78.5 | 53.4 | 47.3 | 46.5 | 45.8 | 45.8 | 45.8 |
| 47.5° | 3259.3 | 2173.9 | 216.6 | 111.4 | 65.5 | 45.8 | 41.2 | 40.5 | 39.6 | 40.5 | 40.5 |
| 50° | 3795.5 | 2404.3 | 193.8 | 98.5 | 54.2 | 38.8 | 35.0 | 35.0 | 35.0 | 35.0 | 35.8 |
| 52.5° | 4610.9 | 2857.2 | 178.6 | 85.3 | 44.2 | 32.8 | 29.7 | 29.7 | 30.5 | 30.5 | 31.4 |
| 55° | 5519.4 | 3458.4 | 164.7 | 72.5 | 37.4 | 27.5 | 24.4 | 25.2 | 26.0 | 26.7 | 26.7 |
| 57.5° | 6504.8 | 4124.3 | 153.3 | 59.5 | 32.0 | 22.1 | 20.7 | 21.4 | 22.1 | 23.6 | 23.6 |
| 60° | 7694.1 | 4845.1 | 136.5 | 46.5 | 26.7 | 17.5 | 16.0 | 17.5 | 19.9 | 21.4 | 22.1 |
| 62.5° | 8999.8 | 5542.3 | 115.3 | 36.7 | 22.1 | 13.7 | 12.9 | 16.0 | 19.0 | 20.7 | 21.4 |
| 65° | 9892.3 | 5761.2 | 88.6 | 29.7 | 16.8 | 9.9 | 10.7 | 14.6 | 18.3 | 20.7 | 20.7 |
| 67° | 9530.7 | 5223.5 | 72.5 | 25.2 | 13.7 | 7.6 | 9.9 | 14.6 | 18.3 | 19.9 | 20.7 |
| 67.5° | 9279.9 | 5012.9 | 69.3 | 24.4 | 12.9 | 7.6 | 9.9 | 14.6 | 18.3 | 20.7 | 20.7 |
| 70° | 7550.7 | 3765.8 | 58.0 | 18.3 | 10.7 | 6.8 | 8.4 | 13.7 | 17.5 | 19.9 | 19.9 |
| 72.5° | 5246.3 | 2321.8 | 51.8 | 12.9 | 9.2 | 6.1 | 7.6 | 12.9 | 16.8 | 19.0 | 19.9 |
| 75° | 2494.2 | 840.5 | 44.2 | 9.9 | 8.4 | 5.3 | 6.8 | 12.9 | 16.8 | 19.0 | 19.0 |
| 77.5° | 508.8 | 195.3 | 35.8 | 8.4 | 6.8 | 5.3 | 6.1 | 12.1 | 16.0 | 18.3 | 18.3 |
| 80° | 167.1 | 75.5 | 26.7 | 7.6 | 6.8 | 5.3 | 6.1 | 11.5 | 16.0 | 17.5 | 18.3 |
| 82.5° | 120.6 | 38.2 | 17.5 | 7.6 | 6.8 | 5.3 | 5.3 | 11.5 | 15.2 | 17.5 | 17.5 |
| 85° | 92.3 | 26.7 | 11.5 | 7.6 | 6.8 | 5.3 | 5.3 | 10.7 | 14.6 | 16.8 | 16.8 |
| 87.5° | 61.1 | 10.7 | 9.2 | 7.6 | 6.8 | 5.3 | 5.3 | 10.7 | 13.7 | 16.0 | 16.8 |
| 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)