

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: P382859

Luminaire Tested: **GAN-SA2B-735-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382859
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2B-735-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10893.5 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

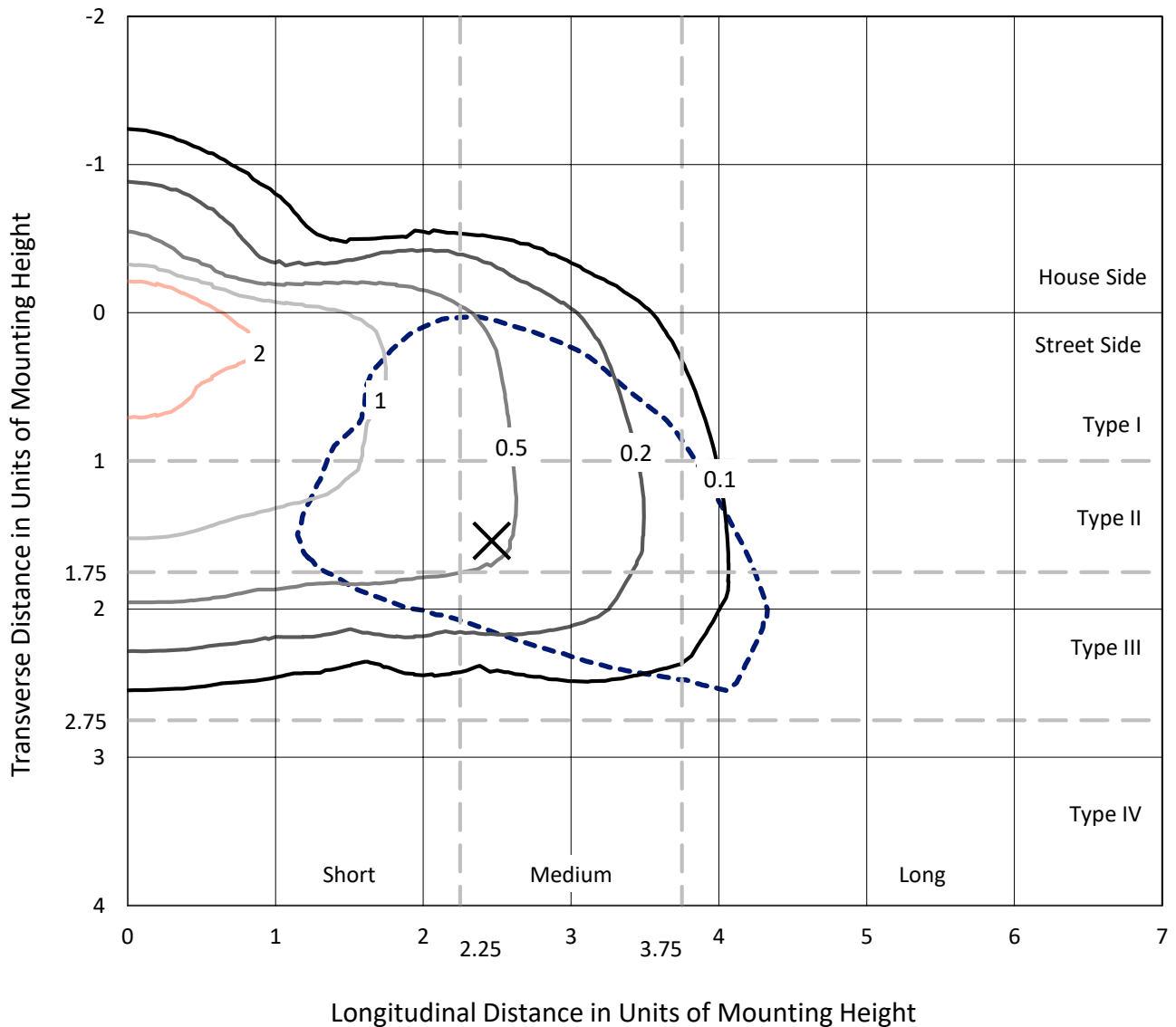
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

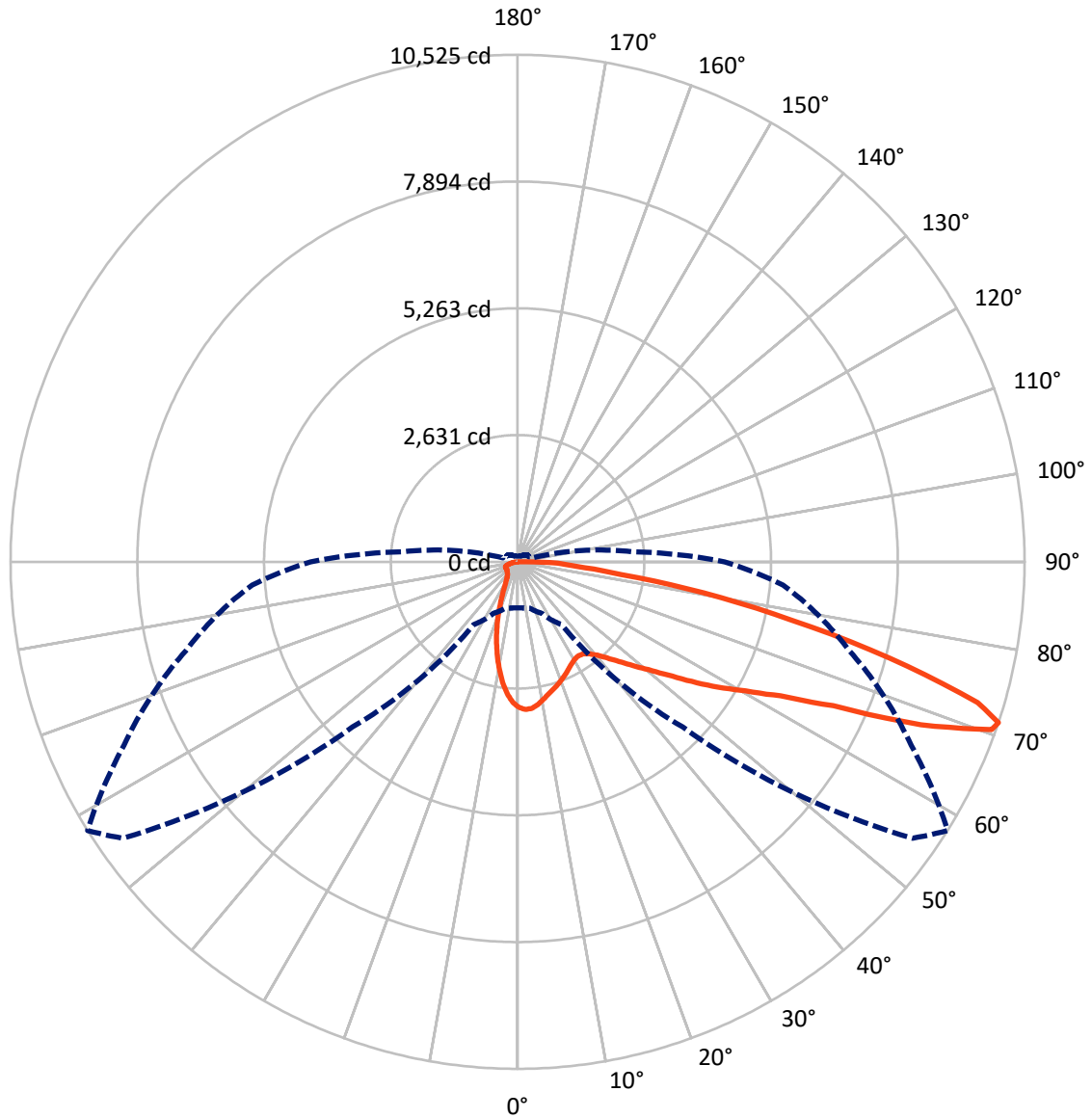
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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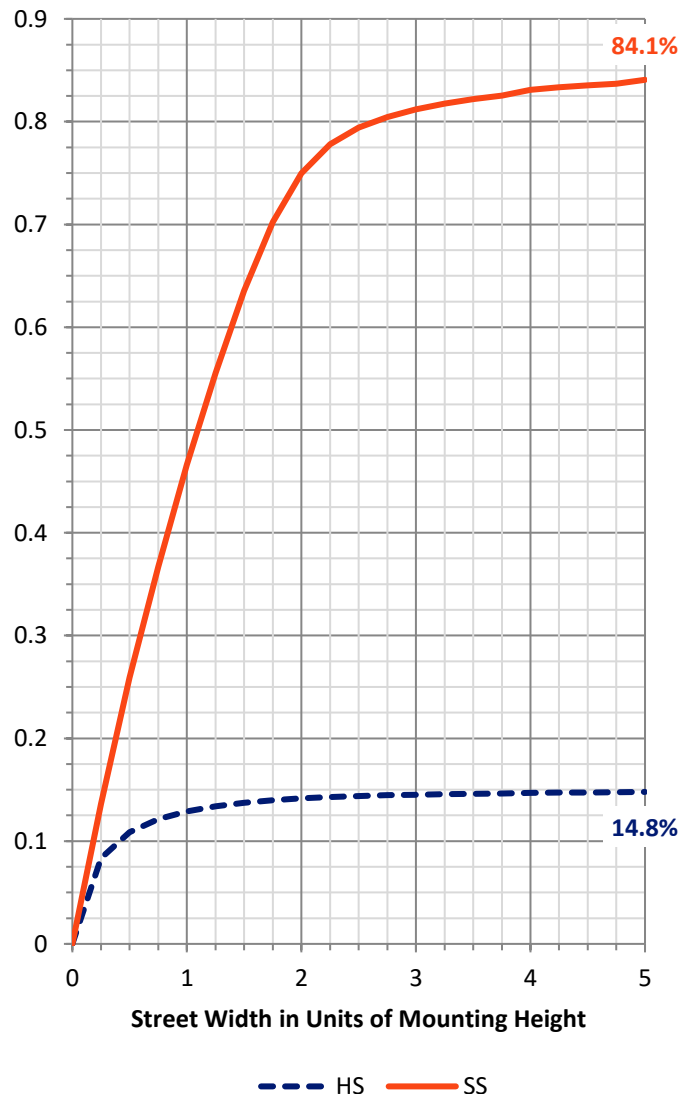
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1628.7 | 0.0 | 1628.7 |
| | % Fixture | 15.0 | 0.0 | 15.0 |
| Street Side | Lumens | 9264.9 | 0.0 | 9264.9 |
| | % Fixture | 85.0 | 0.0 | 85.0 |
| Total | Lumens | 10893.5 | 0.0 | 10893.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 260.4 | 2.4 |
| 10°-20° | 579.0 | 5.3 |
| 20°-30° | 735.8 | 6.8 |
| 30°-40° | 937.3 | 8.6 |
| 40°-50° | 1329.2 | 12.2 |
| 50°-60° | 2056.9 | 18.9 |
| 60°-70° | 2800.2 | 25.7 |
| 70°-80° | 1868.1 | 17.1 |
| 80°-90° | 326.6 | 3.0 |
| 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° | 10893.5 | 100.0 |
| 0°-180° | 10893.5 | 100.0 |

Coefficient of Utilization

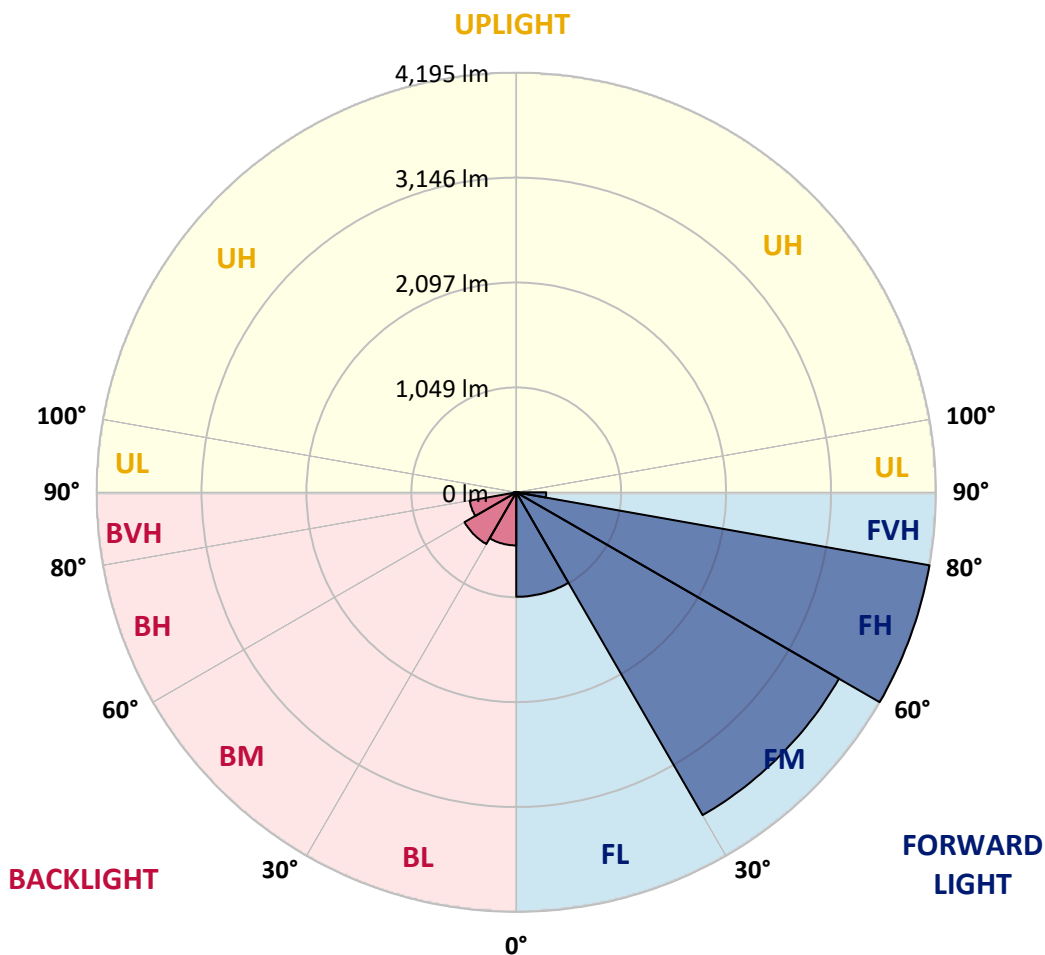


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1044.3 | 9.6 | | | |
| FM (30°-60°) | 3726.1 | 34.2 | | | |
| FH (60°-80°) | 4195.0 | 38.5 | | | G2/5000 |
| FVH (80°-90°) | 299.5 | 2.7 | | | G3/500 |
| BL (0°-30°) | 530.9 | 4.9 | B2/1000 | | |
| BM (30°-60°) | 597.3 | 5.5 | B1/1000 | | |
| BH (60°-80°) | 473.4 | 4.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 27.1 | 0.2 | | | 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 III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|--------|--------|--------|
| 0° | 3018.2 | 3018.2 | 3018.2 | 3018.2 | 3018.2 | 3018.2 | 3018.2 | 3018.2 | 3018.2 | 3018.2 | 3018.2 |
| 2.5° | 3098.3 | 3094.1 | 3095.6 | 3092.6 | 3085.4 | 3078.2 | 3067.6 | 3069.4 | 3054.6 | 3032.7 | 3005.4 |
| 5° | 3039.8 | 3038.3 | 3049.7 | 3056.2 | 3061.5 | 3057.3 | 3054.3 | 3058.1 | 3036.5 | 3006.1 | 2958.7 |
| 7.5° | 2917.3 | 2900.6 | 2915.0 | 2936.6 | 2957.1 | 2972.7 | 2993.2 | 2995.9 | 2982.2 | 2950.3 | 2888.1 |
| 10° | 2743.1 | 2727.2 | 2748.4 | 2782.3 | 2823.1 | 2860.4 | 2901.8 | 2909.3 | 2912.0 | 2883.1 | 2807.6 |
| 12.5° | 2562.5 | 2550.4 | 2571.6 | 2619.0 | 2687.0 | 2744.2 | 2810.3 | 2821.7 | 2845.2 | 2825.8 | 2733.3 |
| 15° | 2400.9 | 2396.3 | 2422.1 | 2468.8 | 2546.9 | 2634.6 | 2729.8 | 2750.7 | 2790.5 | 2784.1 | 2675.2 |
| 17.5° | 2261.2 | 2260.0 | 2279.8 | 2328.8 | 2415.2 | 2526.1 | 2649.8 | 2685.1 | 2744.2 | 2751.9 | 2627.4 |
| 20° | 2157.3 | 2154.9 | 2168.6 | 2204.7 | 2293.8 | 2419.4 | 2563.2 | 2611.9 | 2697.2 | 2723.8 | 2578.1 |
| 22.5° | 2101.5 | 2101.1 | 2101.5 | 2118.5 | 2191.4 | 2308.3 | 2479.0 | 2538.2 | 2651.3 | 2701.4 | 2523.4 |
| 25° | 2092.0 | 2090.9 | 2082.5 | 2080.6 | 2122.0 | 2215.3 | 2395.6 | 2460.8 | 2607.7 | 2685.8 | 2471.4 |
| 27.5° | 2116.7 | 2118.2 | 2107.2 | 2089.3 | 2097.7 | 2154.2 | 2323.1 | 2392.9 | 2572.7 | 2682.8 | 2435.3 |
| 30° | 2167.9 | 2167.1 | 2157.7 | 2139.0 | 2122.7 | 2131.5 | 2271.5 | 2341.3 | 2549.2 | 2696.1 | 2410.8 |
| 32.5° | 2224.4 | 2228.5 | 2226.7 | 2216.4 | 2192.1 | 2157.3 | 2255.9 | 2324.2 | 2542.4 | 2727.9 | 2400.1 |
| 35° | 2292.4 | 2296.9 | 2310.5 | 2318.5 | 2290.0 | 2233.9 | 2289.3 | 2348.5 | 2562.1 | 2787.9 | 2417.2 |
| 37.5° | 2356.8 | 2368.6 | 2406.9 | 2440.7 | 2416.4 | 2353.8 | 2378.1 | 2420.2 | 2623.2 | 2882.4 | 2463.1 |
| 40° | 2431.2 | 2441.5 | 2504.1 | 2575.8 | 2572.0 | 2507.1 | 2521.1 | 2549.2 | 2731.0 | 3017.8 | 2546.2 |
| 42.5° | 2504.5 | 2525.0 | 2615.6 | 2717.3 | 2746.6 | 2689.3 | 2711.6 | 2726.5 | 2882.8 | 3197.4 | 2691.1 |
| 45° | 2602.0 | 2624.0 | 2749.9 | 2872.5 | 2940.8 | 2908.6 | 2944.2 | 2949.9 | 3073.6 | 3441.7 | 2901.8 |
| 47.5° | 2749.6 | 2774.6 | 2921.4 | 3050.1 | 3154.5 | 3157.9 | 3216.7 | 3214.4 | 3311.9 | 3721.3 | 3167.0 |
| 50° | 2979.6 | 3015.6 | 3135.9 | 3256.1 | 3382.9 | 3453.4 | 3532.1 | 3521.1 | 3597.6 | 4019.3 | 3472.4 |
| 52.5° | 3280.8 | 3297.5 | 3386.7 | 3475.5 | 3632.9 | 3791.2 | 3903.9 | 3894.1 | 3921.7 | 4325.5 | 3819.3 |
| 55° | 3593.1 | 3605.6 | 3642.4 | 3691.0 | 3902.7 | 4160.8 | 4399.0 | 4383.5 | 4313.3 | 4643.5 | 4162.0 |
| 57.5° | 3873.9 | 3899.4 | 3924.8 | 3944.9 | 4174.5 | 4547.1 | 4905.7 | 4906.8 | 4738.3 | 4986.5 | 4516.0 |
| 60° | 3917.5 | 3940.0 | 4108.0 | 4266.7 | 4639.3 | 5062.4 | 5447.9 | 5436.5 | 5178.1 | 5358.7 | 4910.6 |
| 62.5° | 3462.9 | 3513.4 | 3794.2 | 4216.2 | 5087.1 | 6004.9 | 6139.6 | 6125.7 | 5704.1 | 5817.5 | 5370.1 |
| 65° | 2481.6 | 2538.9 | 2877.8 | 3511.9 | 4870.0 | 7043.5 | 7388.1 | 7199.1 | 6421.3 | 6381.8 | 5908.2 |
| 67.5° | 1431.7 | 1445.4 | 1592.2 | 2101.5 | 3708.1 | 7097.8 | 9292.7 | 9028.1 | 7534.9 | 7021.9 | 6171.6 |
| 70° | 1058.7 | 1058.3 | 1093.3 | 1293.2 | 2006.6 | 5792.8 | 10198.4 | 10435.6 | 8707.5 | 7232.5 | 5799.3 |
| 71° | 957.4 | 958.6 | 997.6 | 1177.1 | 1589.2 | 4848.8 | 10006.0 | 10525.1 | 9016.4 | 7128.6 | 5529.9 |
| 72.5° | 818.8 | 822.6 | 877.0 | 1055.6 | 1336.9 | 3343.8 | 9177.2 | 9987.8 | 9162.9 | 6872.0 | 5108.3 |
| 75° | 621.2 | 629.9 | 705.0 | 889.8 | 1221.8 | 1695.8 | 6735.5 | 7975.5 | 8139.9 | 6063.8 | 3795.8 |
| 77.5° | 443.2 | 453.1 | 538.1 | 748.3 | 1161.5 | 1278.0 | 4510.6 | 5817.5 | 5990.1 | 3886.0 | 1712.1 |
| 80° | 280.0 | 291.8 | 355.9 | 595.4 | 1091.3 | 1213.5 | 2834.6 | 3910.4 | 3266.4 | 1243.5 | 435.6 |
| 82.5° | 164.3 | 173.5 | 220.9 | 388.9 | 891.4 | 1168.7 | 1667.7 | 2167.5 | 1271.2 | 375.7 | 198.0 |
| 85° | 95.2 | 99.4 | 137.8 | 247.8 | 647.3 | 1103.1 | 1225.3 | 1211.7 | 551.8 | 183.7 | 93.7 |
| 87.5° | 44.4 | 49.4 | 81.6 | 129.4 | 359.4 | 799.5 | 968.3 | 836.7 | 343.0 | 86.2 | 44.1 |
| 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° | 3018.2 | 3018.2 | 3018.2 | 3018.2 | 3018.2 | 3018.2 | 3018.2 | 3018.2 | 3018.2 | 3018.2 | 3018.2 |
| 2.5° | 2992.0 | 2985.6 | 2958.7 | 2934.7 | 2909.7 | 2877.1 | 2841.0 | 2836.5 | 2814.5 | 2818.7 | 2811.0 |
| 5° | 2932.9 | 2916.6 | 2851.7 | 2792.9 | 2723.4 | 2661.2 | 2593.6 | 2562.5 | 2517.7 | 2514.7 | 2503.3 |
| 7.5° | 2848.2 | 2817.8 | 2717.3 | 2605.7 | 2494.2 | 2387.9 | 2282.9 | 2213.7 | 2143.2 | 2113.2 | 2110.6 |
| 10° | 2753.0 | 2701.4 | 2553.4 | 2388.3 | 2227.4 | 2072.2 | 1922.0 | 1810.7 | 1710.6 | 1663.2 | 1661.3 |
| 12.5° | 2662.6 | 2586.4 | 2383.4 | 2158.8 | 1938.6 | 1737.5 | 1531.5 | 1385.4 | 1259.8 | 1217.7 | 1199.8 |
| 15° | 2586.1 | 2478.7 | 2217.9 | 1930.7 | 1663.6 | 1384.3 | 1149.8 | 996.1 | 879.9 | 839.8 | 832.2 |
| 17.5° | 2511.6 | 2373.5 | 2048.3 | 1700.4 | 1377.5 | 1070.4 | 835.6 | 721.4 | 659.5 | 643.1 | 642.8 |
| 20° | 2437.7 | 2265.3 | 1871.1 | 1464.8 | 1100.8 | 800.7 | 642.4 | 591.2 | 570.3 | 568.4 | 565.4 |
| 22.5° | 2353.8 | 2150.8 | 1684.8 | 1228.3 | 859.1 | 629.5 | 546.1 | 525.6 | 522.9 | 529.8 | 529.8 |
| 25° | 2275.2 | 2036.9 | 1495.9 | 996.8 | 668.2 | 525.2 | 487.6 | 483.5 | 490.6 | 502.8 | 504.0 |
| 27.5° | 2202.0 | 1927.3 | 1311.4 | 791.2 | 535.5 | 462.6 | 447.0 | 451.9 | 464.8 | 478.9 | 479.3 |
| 30° | 2141.7 | 1823.7 | 1132.3 | 623.5 | 452.4 | 415.8 | 413.2 | 423.1 | 437.2 | 448.2 | 450.8 |
| 32.5° | 2095.1 | 1735.3 | 959.3 | 501.3 | 398.1 | 381.0 | 383.2 | 391.6 | 400.3 | 406.4 | 410.5 |
| 35° | 2073.3 | 1659.4 | 799.5 | 422.7 | 363.5 | 354.1 | 357.1 | 361.6 | 365.4 | 370.0 | 373.4 |
| 37.5° | 2077.2 | 1600.6 | 656.8 | 373.7 | 340.4 | 335.5 | 335.5 | 335.5 | 335.5 | 337.7 | 338.1 |
| 40° | 2112.5 | 1566.8 | 540.8 | 342.6 | 324.8 | 319.5 | 315.3 | 311.5 | 308.5 | 310.0 | 309.3 |
| 42.5° | 2202.7 | 1563.8 | 455.7 | 323.0 | 312.3 | 303.6 | 295.2 | 289.9 | 286.1 | 287.7 | 288.4 |
| 45° | 2356.1 | 1601.7 | 398.4 | 308.9 | 300.5 | 287.3 | 276.7 | 270.9 | 268.3 | 273.2 | 274.0 |
| 47.5° | 2554.5 | 1684.4 | 363.5 | 298.7 | 289.5 | 272.1 | 260.6 | 255.3 | 256.2 | 263.3 | 265.2 |
| 50° | 2810.3 | 1818.8 | 346.8 | 292.2 | 282.0 | 259.2 | 247.4 | 242.9 | 245.1 | 255.3 | 257.7 |
| 52.5° | 3091.1 | 2012.2 | 348.7 | 290.3 | 277.0 | 249.7 | 237.2 | 231.9 | 235.7 | 245.1 | 247.0 |
| 55° | 3415.1 | 2244.9 | 380.3 | 293.0 | 269.8 | 243.6 | 228.8 | 219.8 | 222.7 | 231.5 | 233.0 |
| 57.5° | 3775.3 | 2511.3 | 443.6 | 292.2 | 260.6 | 237.9 | 220.1 | 206.4 | 208.7 | 214.0 | 215.6 |
| 60° | 4150.1 | 2833.0 | 541.9 | 294.5 | 256.5 | 231.1 | 208.3 | 191.2 | 190.5 | 195.1 | 195.8 |
| 62.5° | 4600.2 | 3205.3 | 654.2 | 296.0 | 259.2 | 222.4 | 192.7 | 176.1 | 173.8 | 174.9 | 175.7 |
| 65° | 5063.9 | 3474.8 | 612.0 | 289.9 | 267.5 | 215.2 | 179.1 | 161.3 | 157.1 | 156.3 | 156.7 |
| 67.5° | 5078.3 | 3186.0 | 429.2 | 277.8 | 270.9 | 211.4 | 168.9 | 148.8 | 141.9 | 139.3 | 138.9 |
| 70° | 4554.3 | 2588.3 | 334.3 | 264.8 | 257.3 | 205.3 | 159.4 | 138.5 | 128.3 | 124.1 | 123.7 |
| 71° | 4298.5 | 2382.6 | 316.8 | 258.4 | 247.0 | 199.3 | 155.2 | 134.0 | 123.3 | 118.8 | 118.0 |
| 72.5° | 3897.4 | 2135.9 | 295.6 | 248.2 | 227.3 | 183.7 | 147.2 | 127.5 | 116.5 | 111.2 | 110.0 |
| 75° | 2797.0 | 1396.8 | 253.8 | 221.2 | 188.2 | 146.4 | 129.0 | 114.6 | 105.1 | 98.7 | 97.9 |
| 77.5° | 1077.7 | 555.9 | 192.0 | 184.1 | 144.2 | 114.6 | 106.3 | 99.0 | 92.2 | 85.8 | 85.4 |
| 80° | 333.1 | 248.5 | 140.0 | 138.5 | 104.3 | 85.4 | 82.7 | 80.9 | 78.2 | 71.4 | 69.9 |
| 82.5° | 177.9 | 142.7 | 96.4 | 89.5 | 68.3 | 56.9 | 60.0 | 60.7 | 61.1 | 53.8 | 53.1 |
| 85° | 85.0 | 75.5 | 54.3 | 50.9 | 39.9 | 31.9 | 36.8 | 39.9 | 40.2 | 33.0 | 30.7 |
| 87.5° | 40.6 | 39.5 | 25.4 | 19.4 | 14.8 | 10.6 | 12.9 | 15.9 | 17.4 | 12.5 | 11.0 |
| 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)