

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P386610

Luminaire Tested: GAW-SA2B-735-U-SL3-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386610
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA2B-735-U-SL3-HSS
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3500K, 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: 9572.4 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

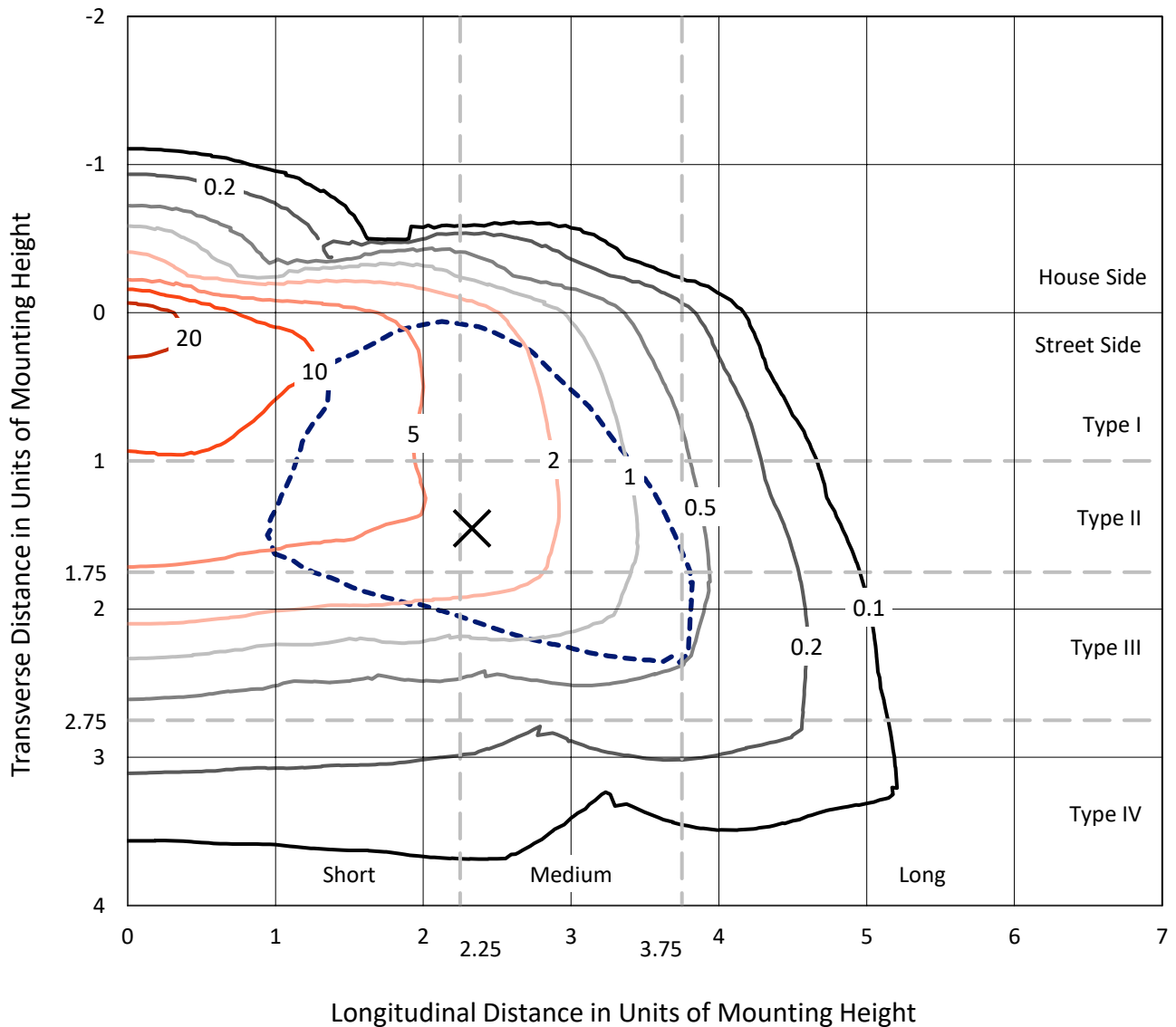
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

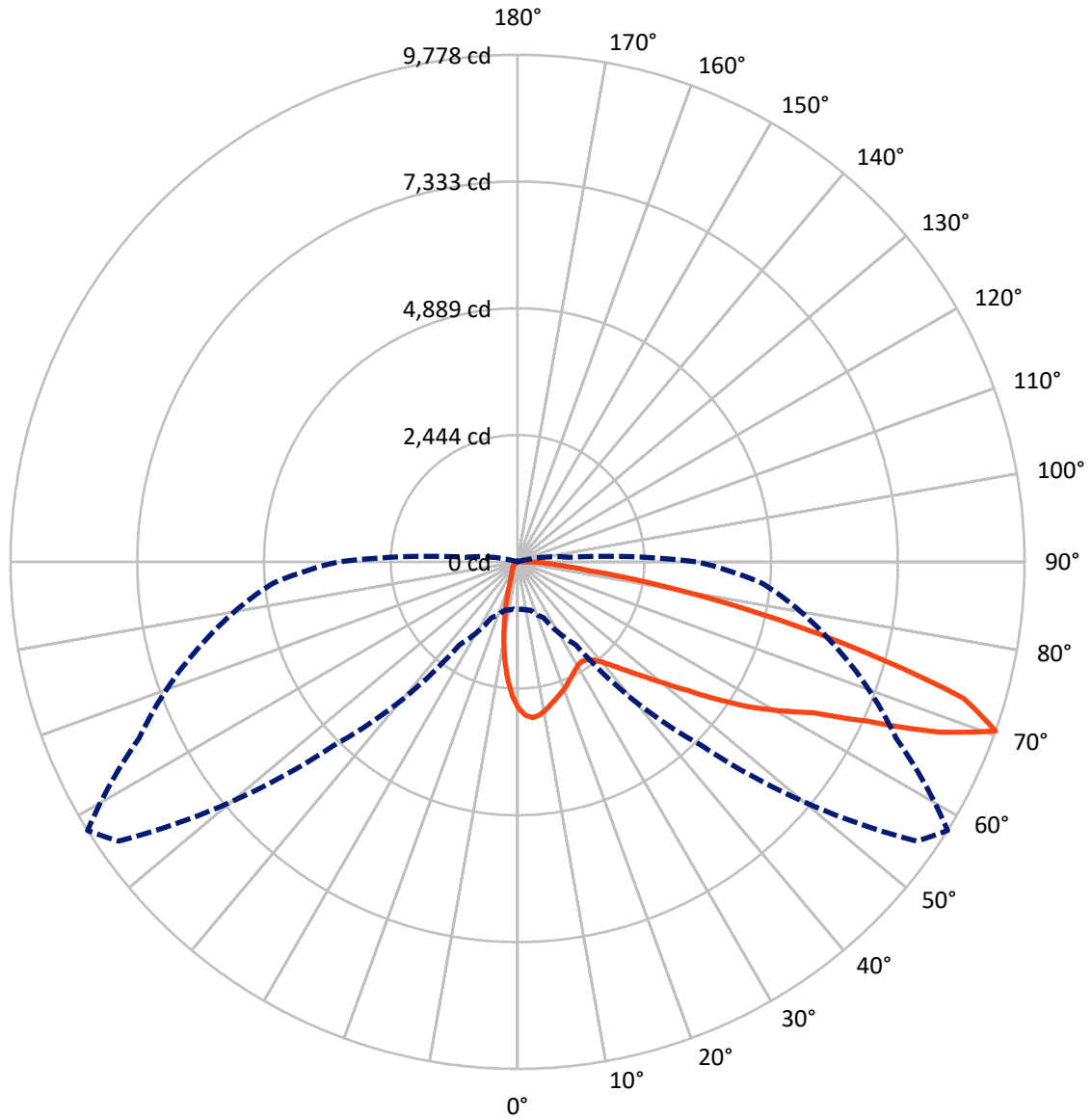
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 28.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 819.2 | 0.0 | 819.2 |
| | % Fixture | 8.6 | 0.0 | 8.6 |
| Street Side | Lumens | 8753.2 | 0.0 | 8753.2 |
| | % Fixture | 91.4 | 0.0 | 91.4 |
| Total | Lumens | 9572.4 | 0.0 | 9572.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 231.2 | 2.4 |
| 10°-20° | 485.3 | 5.1 |
| 20°-30° | 638.0 | 6.7 |
| 30°-40° | 845.0 | 8.8 |
| 40°-50° | 1262.9 | 13.2 |
| 50°-60° | 2023.2 | 21.1 |
| 60°-70° | 2550.2 | 26.6 |
| 70°-80° | 1375.6 | 14.4 |
| 80°-90° | 161.0 | 1.7 |
| 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° | 9572.4 | 100.0 |
| 0°-180° | 9572.4 | 100.0 |

Coefficient of Utilization

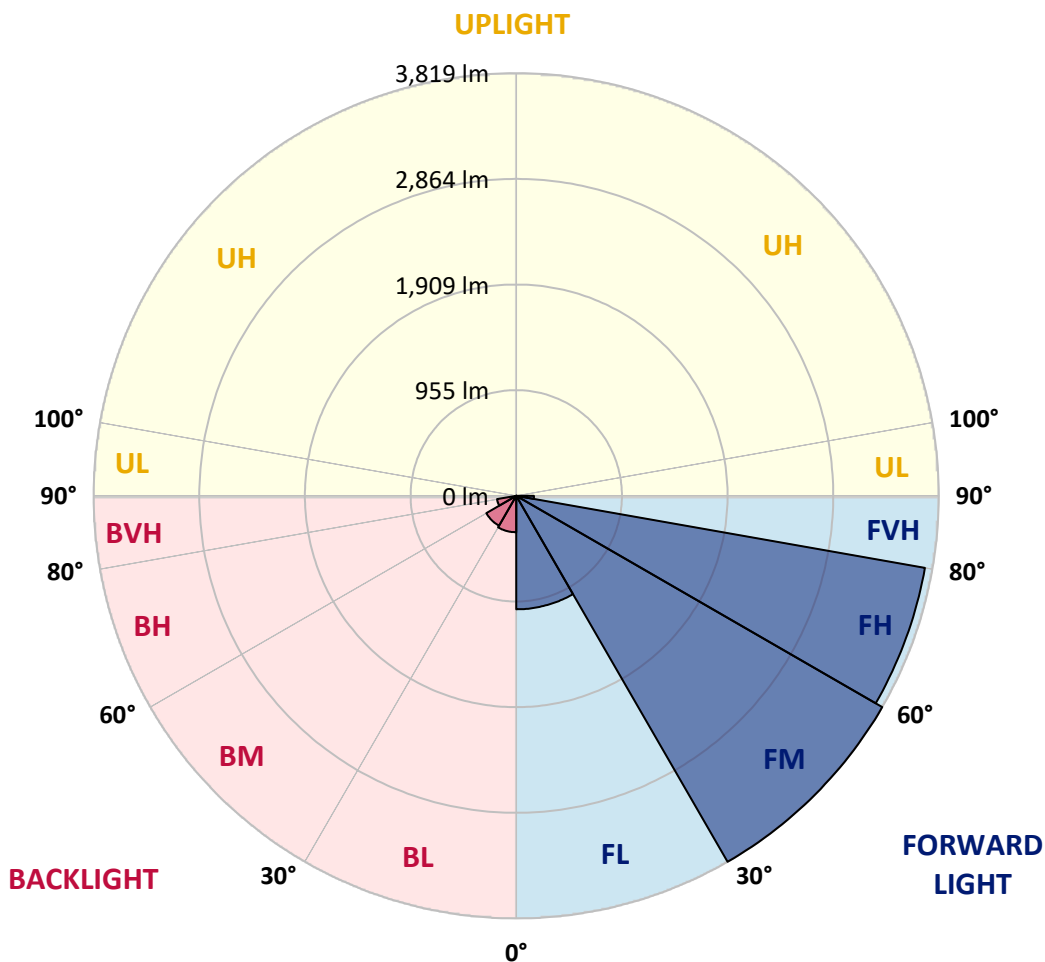


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1025.4 | 10.7 | | | |
| FM (30°-60°) | 3818.6 | 39.9 | | | |
| FH (60°-80°) | 3749.6 | 39.2 | | | G2/5000 |
| FVH (80°-90°) | 159.6 | 1.7 | | | G2/225 |
| BL (0°-30°) | 329.1 | 3.4 | B1/500 | | |
| BM (30°-60°) | 312.5 | 3.3 | B1/1000 | | |
| BH (60°-80°) | 176.2 | 1.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.4 | 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-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2827.7 | 2827.7 | 2827.7 | 2827.7 | 2827.7 | 2827.7 | 2827.7 | 2827.7 | 2827.7 | 2827.7 | 2827.7 |
| 2.5° | 3062.0 | 3054.5 | 3051.7 | 3046.9 | 3028.7 | 3010.8 | 2975.3 | 2965.4 | 2943.1 | 2890.1 | 2834.1 |
| 5° | 3064.5 | 3064.1 | 3072.5 | 3070.4 | 3064.1 | 3055.8 | 3030.2 | 3017.1 | 2979.3 | 2903.7 | 2801.0 |
| 7.5° | 2916.8 | 2924.3 | 2943.1 | 2958.2 | 2975.7 | 2998.5 | 3001.6 | 2988.9 | 2957.8 | 2876.2 | 2740.1 |
| 10° | 2718.6 | 2730.5 | 2756.8 | 2786.6 | 2832.5 | 2877.8 | 2918.4 | 2916.8 | 2906.0 | 2825.7 | 2666.8 |
| 12.5° | 2519.9 | 2533.9 | 2564.2 | 2608.3 | 2673.2 | 2747.3 | 2819.7 | 2829.6 | 2847.6 | 2780.3 | 2599.2 |
| 15° | 2346.0 | 2358.0 | 2387.8 | 2442.0 | 2522.4 | 2621.8 | 2728.1 | 2746.4 | 2792.6 | 2744.8 | 2542.7 |
| 17.5° | 2198.4 | 2205.9 | 2227.8 | 2287.9 | 2381.1 | 2501.7 | 2639.8 | 2675.6 | 2744.4 | 2717.0 | 2493.7 |
| 20° | 2095.2 | 2096.4 | 2110.8 | 2153.0 | 2246.1 | 2381.1 | 2548.2 | 2599.6 | 2693.5 | 2693.1 | 2443.2 |
| 22.5° | 2044.3 | 2040.4 | 2043.1 | 2067.4 | 2135.9 | 2266.0 | 2456.7 | 2517.6 | 2647.8 | 2672.9 | 2391.8 |
| 25° | 2034.7 | 2031.5 | 2023.6 | 2026.8 | 2068.2 | 2165.3 | 2364.4 | 2434.8 | 2607.6 | 2660.5 | 2347.3 |
| 27.5° | 2064.6 | 2067.8 | 2054.3 | 2039.9 | 2043.1 | 2100.0 | 2282.4 | 2363.9 | 2574.9 | 2660.5 | 2315.8 |
| 30° | 2124.7 | 2126.3 | 2116.4 | 2097.7 | 2072.6 | 2081.7 | 2225.4 | 2307.1 | 2558.5 | 2678.8 | 2295.9 |
| 32.5° | 2191.2 | 2200.0 | 2198.7 | 2183.6 | 2147.8 | 2110.8 | 2211.9 | 2286.3 | 2557.4 | 2719.4 | 2293.9 |
| 35° | 2273.6 | 2283.6 | 2300.3 | 2297.1 | 2259.6 | 2198.7 | 2258.0 | 2316.5 | 2580.9 | 2786.2 | 2315.4 |
| 37.5° | 2361.2 | 2376.3 | 2412.1 | 2429.2 | 2404.9 | 2336.1 | 2361.5 | 2403.3 | 2643.7 | 2894.6 | 2369.9 |
| 40° | 2445.9 | 2463.1 | 2528.3 | 2595.6 | 2577.3 | 2506.4 | 2518.4 | 2551.8 | 2755.6 | 3050.1 | 2473.4 |
| 42.5° | 2529.1 | 2554.6 | 2650.5 | 2761.2 | 2783.0 | 2726.6 | 2732.9 | 2759.6 | 2921.6 | 3264.3 | 2642.5 |
| 45° | 2628.6 | 2657.3 | 2799.4 | 2935.9 | 2994.4 | 2969.7 | 2996.9 | 3014.3 | 3138.5 | 3547.3 | 2870.6 |
| 47.5° | 2774.7 | 2807.8 | 2982.1 | 3137.8 | 3240.4 | 3256.3 | 3310.9 | 3322.4 | 3412.7 | 3876.9 | 3168.0 |
| 50° | 3059.7 | 3068.8 | 3226.4 | 3367.8 | 3515.9 | 3611.4 | 3673.5 | 3682.2 | 3744.7 | 4237.1 | 3539.4 |
| 52.5° | 3418.4 | 3424.3 | 3513.4 | 3608.2 | 3776.6 | 3971.6 | 4116.9 | 4129.2 | 4142.4 | 4588.2 | 3905.9 |
| 55° | 3774.6 | 3773.8 | 3832.7 | 3888.4 | 4081.1 | 4364.4 | 4679.7 | 4687.3 | 4593.0 | 4921.3 | 4186.1 |
| 57.5° | 3997.1 | 4018.5 | 4108.2 | 4179.7 | 4448.9 | 4812.2 | 5249.7 | 5277.5 | 5066.2 | 5168.1 | 4463.2 |
| 60° | 3926.2 | 3936.6 | 4135.2 | 4400.3 | 4907.0 | 5448.7 | 5826.5 | 5833.6 | 5422.1 | 5414.5 | 4813.5 |
| 62.5° | 3345.1 | 3350.6 | 3662.7 | 4209.2 | 5139.0 | 6274.2 | 6522.2 | 6405.6 | 5831.2 | 5756.4 | 5232.6 |
| 65° | 2292.7 | 2328.9 | 2589.6 | 3265.1 | 4712.8 | 6792.1 | 7599.3 | 7406.3 | 6455.0 | 6249.1 | 5611.5 |
| 67.5° | 1350.1 | 1342.6 | 1471.6 | 1969.1 | 3461.3 | 6448.2 | 8961.8 | 8769.9 | 7305.6 | 6579.1 | 5500.4 |
| 70° | 922.2 | 917.0 | 966.4 | 1192.1 | 1953.9 | 5002.1 | 9390.5 | 9777.8 | 8056.6 | 6357.1 | 4733.9 |
| 72.5° | 658.3 | 661.1 | 733.9 | 926.2 | 1226.8 | 2914.4 | 8075.3 | 8992.1 | 7821.4 | 5541.9 | 3598.3 |
| 75° | 447.0 | 454.6 | 558.8 | 759.9 | 1075.5 | 1482.6 | 5730.5 | 6835.5 | 6369.0 | 4027.7 | 2068.2 |
| 77.5° | 240.4 | 248.8 | 371.8 | 612.2 | 972.4 | 1030.1 | 3686.2 | 4704.4 | 4000.7 | 1810.7 | 599.4 |
| 80° | 100.3 | 105.1 | 174.0 | 445.0 | 840.3 | 904.7 | 2168.9 | 2852.8 | 1704.8 | 357.1 | 133.8 |
| 82.5° | 43.4 | 45.7 | 72.4 | 265.5 | 628.1 | 763.8 | 1148.3 | 1372.5 | 516.7 | 78.4 | 67.3 |
| 85° | 8.4 | 8.7 | 29.9 | 140.5 | 400.8 | 431.1 | 744.3 | 729.6 | 232.0 | 33.8 | 48.9 |
| 87.5° | 0.0 | 0.0 | 7.1 | 44.2 | 117.8 | 234.8 | 454.2 | 448.6 | 78.8 | 16.3 | 18.3 |
| 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° | 2827.7 | 2827.7 | 2827.7 | 2827.7 | 2827.7 | 2827.7 | 2827.7 | 2827.7 | 2827.7 | 2827.7 | 2827.7 |
| 2.5° | 2805.3 | 2777.9 | 2720.2 | 2648.9 | 2594.4 | 2534.3 | 2486.6 | 2426.0 | 2399.8 | 2401.0 | 2386.6 |
| 5° | 2742.5 | 2685.9 | 2558.2 | 2397.0 | 2272.8 | 2144.6 | 2034.4 | 1924.5 | 1859.6 | 1838.5 | 1818.7 |
| 7.5° | 2652.5 | 2562.9 | 2359.2 | 2110.8 | 1900.6 | 1695.2 | 1516.6 | 1359.3 | 1259.8 | 1211.3 | 1193.3 |
| 10° | 2551.0 | 2425.2 | 2130.3 | 1803.1 | 1503.0 | 1225.2 | 993.5 | 792.1 | 711.7 | 657.2 | 643.2 |
| 12.5° | 2461.9 | 2291.5 | 1906.6 | 1487.4 | 1131.2 | 796.0 | 575.2 | 449.8 | 395.2 | 373.8 | 370.2 |
| 15° | 2377.9 | 2166.5 | 1691.3 | 1201.7 | 783.4 | 490.0 | 365.8 | 323.2 | 310.5 | 306.9 | 306.9 |
| 17.5° | 2298.7 | 2047.5 | 1480.7 | 920.2 | 518.3 | 343.5 | 302.9 | 293.4 | 289.3 | 289.0 | 289.3 |
| 20° | 2215.8 | 1928.5 | 1273.7 | 674.3 | 361.9 | 290.9 | 279.8 | 274.7 | 273.5 | 273.5 | 273.5 |
| 22.5° | 2136.7 | 1809.5 | 1072.3 | 481.6 | 290.2 | 265.5 | 259.9 | 256.4 | 255.1 | 254.8 | 253.9 |
| 25° | 2060.7 | 1696.5 | 875.7 | 340.3 | 254.8 | 243.2 | 238.4 | 233.6 | 230.1 | 228.1 | 226.9 |
| 27.5° | 1998.2 | 1595.7 | 692.6 | 273.1 | 230.1 | 220.1 | 214.2 | 206.9 | 198.2 | 194.3 | 192.7 |
| 30° | 1948.4 | 1503.8 | 533.8 | 230.4 | 206.9 | 197.0 | 187.9 | 175.6 | 162.8 | 156.0 | 155.7 |
| 32.5° | 1909.4 | 1413.4 | 405.2 | 203.8 | 186.3 | 174.0 | 160.8 | 145.3 | 130.6 | 123.0 | 122.6 |
| 35° | 1890.2 | 1333.8 | 309.7 | 184.3 | 168.0 | 152.5 | 136.1 | 119.0 | 104.6 | 97.5 | 96.8 |
| 37.5° | 1903.0 | 1266.6 | 241.6 | 168.0 | 152.5 | 134.5 | 115.5 | 97.5 | 84.8 | 78.4 | 78.0 |
| 40° | 1949.6 | 1223.6 | 196.2 | 154.1 | 139.3 | 117.4 | 96.8 | 80.0 | 69.2 | 64.1 | 63.7 |
| 42.5° | 2048.7 | 1207.7 | 167.6 | 142.5 | 126.5 | 101.5 | 80.4 | 66.0 | 56.1 | 52.5 | 51.8 |
| 45° | 2214.2 | 1231.2 | 148.0 | 131.3 | 113.5 | 86.3 | 66.5 | 54.1 | 45.4 | 42.6 | 42.2 |
| 47.5° | 2434.8 | 1292.8 | 134.1 | 120.6 | 101.5 | 72.8 | 55.3 | 43.8 | 37.0 | 34.2 | 33.8 |
| 50° | 2719.0 | 1390.8 | 122.6 | 109.8 | 90.4 | 61.7 | 45.7 | 34.7 | 28.7 | 26.7 | 26.7 |
| 52.5° | 3028.2 | 1507.4 | 112.3 | 100.0 | 79.2 | 51.4 | 37.0 | 26.7 | 22.7 | 20.3 | 20.3 |
| 55° | 3283.8 | 1609.3 | 101.1 | 92.3 | 65.7 | 42.6 | 28.3 | 20.3 | 16.7 | 15.5 | 15.5 |
| 57.5° | 3539.0 | 1718.0 | 88.4 | 79.2 | 52.5 | 34.7 | 21.5 | 15.1 | 12.3 | 11.6 | 11.6 |
| 60° | 3869.7 | 1850.9 | 76.0 | 64.4 | 41.4 | 26.3 | 15.9 | 10.7 | 9.1 | 8.7 | 8.7 |
| 62.5° | 4233.5 | 1928.9 | 64.9 | 51.8 | 32.2 | 19.5 | 11.6 | 7.1 | 6.8 | 6.8 | 6.4 |
| 65° | 4456.0 | 1818.7 | 54.5 | 41.4 | 25.1 | 14.7 | 7.6 | 5.2 | 6.0 | 5.5 | 4.8 |
| 67.5° | 4172.2 | 1423.7 | 44.6 | 32.2 | 19.5 | 11.2 | 4.8 | 3.6 | 6.4 | 5.2 | 3.9 |
| 70° | 3454.5 | 996.7 | 34.7 | 22.7 | 15.5 | 9.6 | 3.2 | 2.3 | 6.8 | 5.2 | 3.2 |
| 72.5° | 2585.2 | 667.1 | 27.4 | 15.1 | 11.6 | 8.4 | 2.8 | 1.2 | 6.0 | 4.4 | 2.8 |
| 75° | 1412.7 | 268.7 | 21.9 | 9.6 | 7.1 | 6.0 | 2.0 | 0.8 | 3.9 | 3.2 | 2.0 |
| 77.5° | 371.8 | 70.8 | 15.9 | 6.4 | 3.9 | 2.3 | 1.2 | 0.4 | 2.0 | 1.6 | 0.8 |
| 80° | 94.7 | 27.4 | 10.3 | 4.4 | 2.8 | 1.2 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 |
| 82.5° | 50.5 | 11.6 | 6.4 | 3.2 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 38.2 | 7.6 | 3.6 | 2.0 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 14.7 | 2.3 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)