

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: P387032

Luminaire Tested: GAW-SA2D-730-U-SL4-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P387032
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA2D-730-U-SL4-HSS
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11968 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

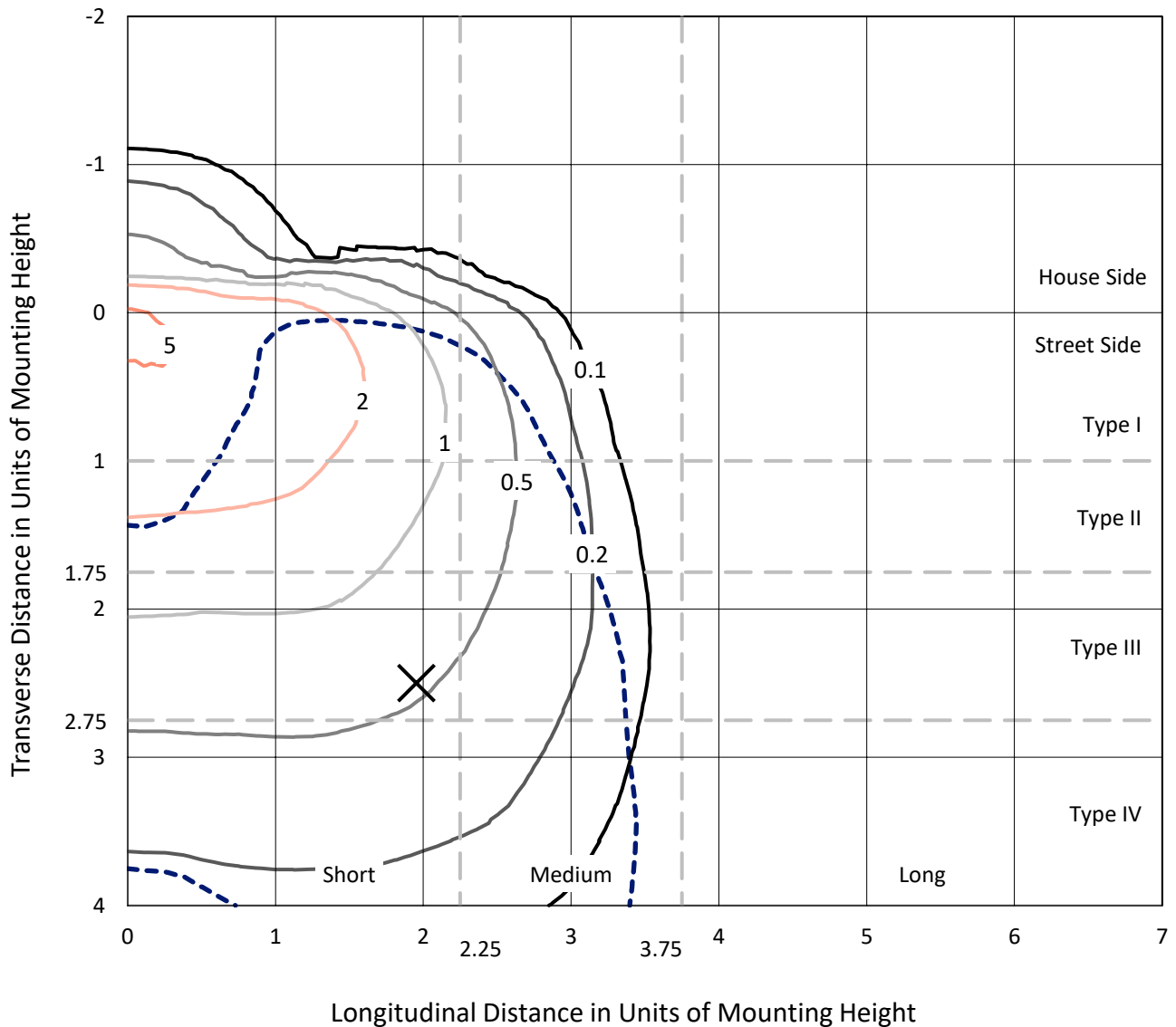
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

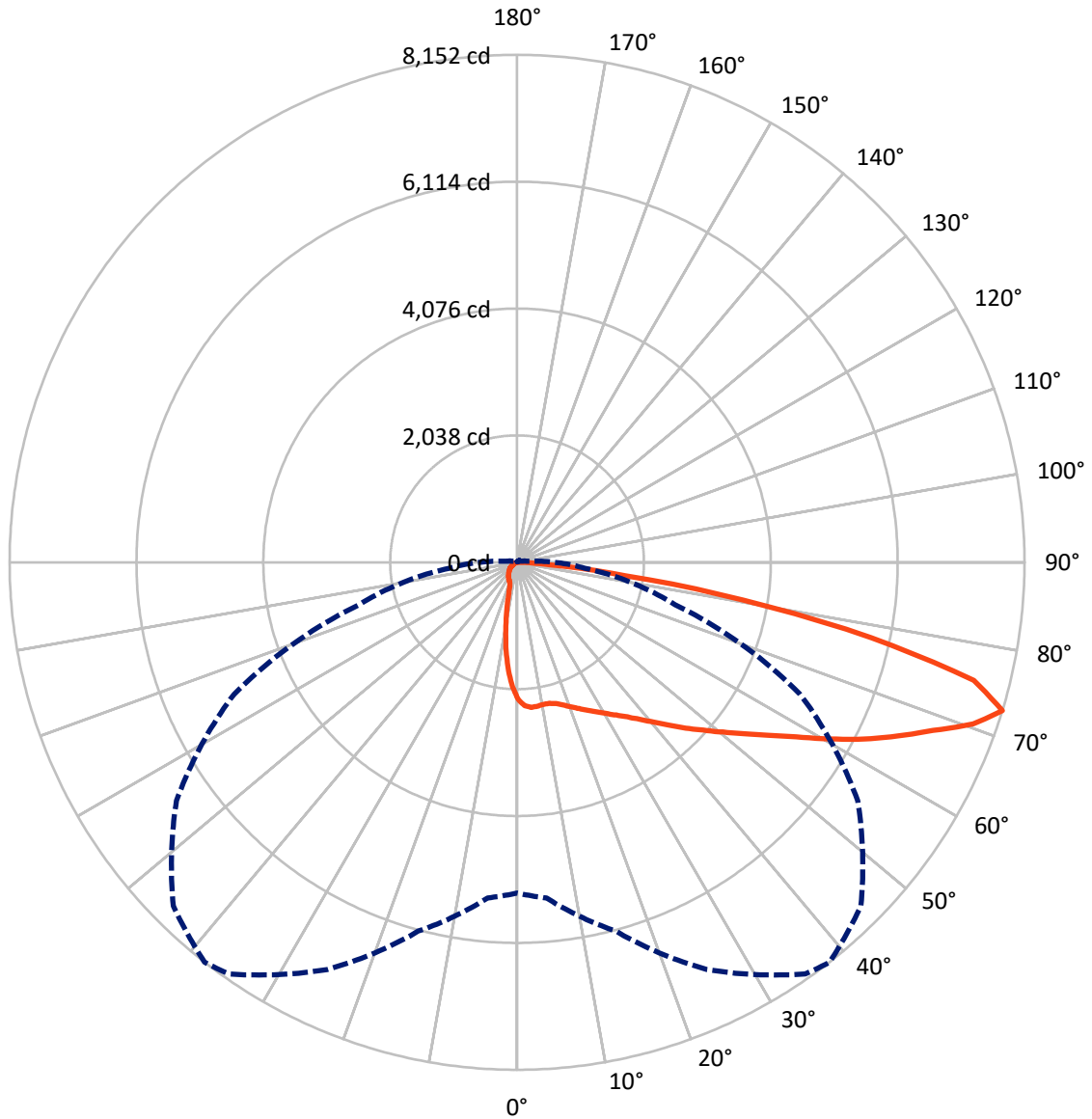
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1007.2 | 0.0 | 1007.2 |
| | % Fixture | 8.4 | 0.0 | 8.4 |
| Street Side | Lumens | 10960.8 | 0.0 | 10960.8 |
| | % Fixture | 91.6 | 0.0 | 91.6 |
| Total | Lumens | 11968.0 | 0.0 | 11968.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 187.6 | 1.6 |
| 10°-20° | 458.6 | 3.8 |
| 20°-30° | 729.4 | 6.1 |
| 30°-40° | 1096.6 | 9.2 |
| 40°-50° | 1673.0 | 14.0 |
| 50°-60° | 2364.4 | 19.8 |
| 60°-70° | 2965.8 | 24.8 |
| 70°-80° | 2217.6 | 18.5 |
| 80°-90° | 275.0 | 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° | 11968.0 | 100.0 |
| 0°-180° | 11968.0 | 100.0 |

Coefficient of Utilization



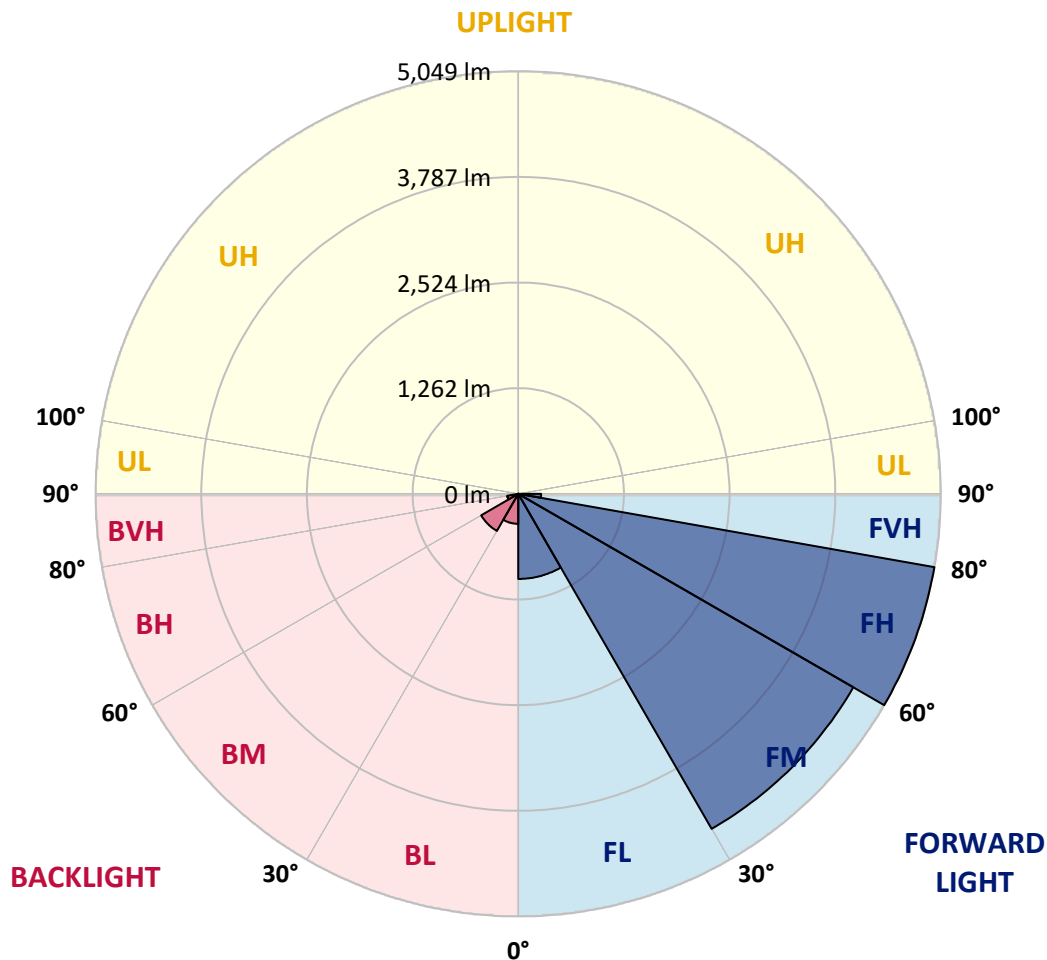
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1017.0 | 8.5 | | | |
| FM (30°-60°) | 4622.6 | 38.6 | | | |
| FH (60°-80°) | 5048.9 | 42.2 | | | G3/7500 |
| FVH (80°-90°) | 272.4 | 2.3 | | | G3/500 |
| BL (0°-30°) | 358.6 | 3.0 | B1/500 | | |
| BM (30°-60°) | 511.4 | 4.3 | B1/1000 | | |
| BH (60°-80°) | 134.5 | 1.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.6 | 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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 38° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2200.9 | 2200.9 | 2200.9 | 2200.9 | 2200.9 | 2200.9 | 2200.9 | 2200.9 | 2200.9 | 2200.9 | 2200.9 |
| 2.5° | 2336.1 | 2336.6 | 2331.1 | 2322.2 | 2310.7 | 2304.8 | 2294.8 | 2278.9 | 2262.0 | 2231.7 | 2198.9 |
| 5° | 2383.8 | 2383.8 | 2376.8 | 2364.9 | 2346.5 | 2341.0 | 2322.2 | 2296.8 | 2262.0 | 2212.8 | 2157.6 |
| 7.5° | 2378.8 | 2379.8 | 2370.4 | 2357.9 | 2339.5 | 2334.6 | 2311.7 | 2283.4 | 2240.1 | 2180.5 | 2109.9 |
| 10° | 2353.0 | 2355.5 | 2348.0 | 2342.0 | 2325.1 | 2319.7 | 2298.3 | 2270.0 | 2226.7 | 2163.1 | 2082.1 |
| 12.5° | 2326.6 | 2329.1 | 2331.6 | 2337.1 | 2326.6 | 2324.6 | 2307.7 | 2283.9 | 2242.6 | 2176.5 | 2085.1 |
| 15° | 2309.7 | 2314.7 | 2332.6 | 2354.0 | 2356.4 | 2354.5 | 2343.5 | 2321.2 | 2279.4 | 2210.8 | 2106.4 |
| 17.5° | 2309.7 | 2317.7 | 2355.0 | 2395.7 | 2410.1 | 2411.6 | 2402.2 | 2370.9 | 2321.2 | 2247.6 | 2126.3 |
| 20° | 2329.1 | 2340.0 | 2398.2 | 2455.9 | 2479.7 | 2479.7 | 2461.3 | 2417.6 | 2359.4 | 2280.9 | 2139.7 |
| 22.5° | 2378.8 | 2393.2 | 2466.3 | 2532.9 | 2558.2 | 2552.8 | 2527.9 | 2464.3 | 2399.2 | 2318.7 | 2156.6 |
| 25° | 2476.7 | 2487.7 | 2563.7 | 2630.8 | 2646.2 | 2633.8 | 2602.5 | 2521.0 | 2449.9 | 2369.9 | 2187.5 |
| 27.5° | 2603.0 | 2604.5 | 2683.0 | 2739.7 | 2730.2 | 2721.8 | 2682.5 | 2592.0 | 2523.0 | 2442.9 | 2240.6 |
| 30° | 2741.7 | 2741.7 | 2810.7 | 2854.0 | 2825.2 | 2818.2 | 2778.9 | 2678.0 | 2616.4 | 2542.3 | 2316.2 |
| 32.5° | 2875.9 | 2881.8 | 2938.0 | 2965.3 | 2933.0 | 2926.1 | 2887.8 | 2786.9 | 2740.7 | 2693.9 | 2434.0 |
| 35° | 3005.6 | 3010.1 | 3063.2 | 3078.1 | 3047.3 | 3049.3 | 3022.0 | 2936.5 | 2919.1 | 2913.1 | 2611.4 |
| 37.5° | 3131.3 | 3132.3 | 3186.5 | 3195.9 | 3180.5 | 3197.4 | 3199.9 | 3124.4 | 3156.7 | 3204.9 | 2861.4 |
| 40° | 3246.1 | 3247.1 | 3300.8 | 3325.2 | 3351.5 | 3373.4 | 3392.8 | 3352.5 | 3459.4 | 3571.2 | 3159.2 |
| 42.5° | 3338.1 | 3348.5 | 3416.6 | 3462.9 | 3532.4 | 3574.2 | 3626.9 | 3624.9 | 3819.7 | 3987.7 | 3519.0 |
| 45° | 3419.1 | 3437.0 | 3531.9 | 3613.0 | 3732.2 | 3798.8 | 3881.4 | 3946.0 | 4225.3 | 4451.5 | 3883.3 |
| 47.5° | 3526.0 | 3542.9 | 3651.2 | 3783.9 | 3943.0 | 4030.5 | 4167.2 | 4306.8 | 4671.1 | 4906.7 | 4239.2 |
| 50° | 3676.6 | 3669.1 | 3776.0 | 3966.3 | 4170.6 | 4285.4 | 4480.3 | 4689.5 | 5113.5 | 5303.4 | 4448.5 |
| 52.5° | 3837.1 | 3834.1 | 3913.2 | 4164.7 | 4439.0 | 4573.2 | 4830.7 | 5085.2 | 5536.5 | 5576.7 | 4544.4 |
| 55° | 4035.9 | 4014.6 | 4081.2 | 4390.8 | 4757.6 | 4901.8 | 5205.0 | 5476.8 | 5873.5 | 5730.8 | 4592.6 |
| 57.5° | 4244.2 | 4208.9 | 4272.5 | 4642.8 | 5117.0 | 5287.5 | 5619.5 | 5858.6 | 6097.6 | 5836.2 | 4592.1 |
| 60° | 4459.4 | 4417.7 | 4493.2 | 4957.9 | 5563.3 | 5760.6 | 6068.8 | 6116.5 | 6306.9 | 5889.4 | 4558.3 |
| 62.5° | 4639.3 | 4614.5 | 4726.8 | 5294.9 | 6061.9 | 6255.7 | 6408.3 | 6351.1 | 6483.3 | 5930.6 | 4479.3 |
| 65° | 4829.7 | 4831.2 | 5012.6 | 5688.1 | 6591.7 | 6722.4 | 6735.3 | 6655.3 | 6631.0 | 5922.2 | 4211.9 |
| 67.5° | 5087.2 | 5111.0 | 5413.7 | 6221.9 | 7107.1 | 7208.0 | 7207.0 | 6984.8 | 6738.8 | 5586.2 | 3618.9 |
| 70° | 5359.5 | 5415.7 | 5876.0 | 6832.8 | 7669.8 | 7772.2 | 7719.5 | 7194.6 | 6345.2 | 4517.1 | 2561.2 |
| 72.5° | 5313.8 | 5411.2 | 6132.9 | 7218.0 | 8073.9 | 8151.9 | 7809.4 | 6679.2 | 5015.1 | 2625.3 | 1090.5 |
| 75° | 4099.6 | 4212.4 | 5623.5 | 6836.2 | 7649.9 | 7579.8 | 6710.0 | 5197.5 | 2740.7 | 732.6 | 245.5 |
| 77.5° | 2165.6 | 2225.7 | 3714.8 | 5207.9 | 5964.9 | 5818.3 | 4726.8 | 2883.3 | 835.5 | 181.4 | 110.3 |
| 80° | 1134.2 | 1148.2 | 1618.8 | 2954.9 | 3681.5 | 3682.5 | 2801.3 | 1266.4 | 344.4 | 92.9 | 74.1 |
| 82.5° | 607.4 | 619.3 | 855.4 | 1365.4 | 1929.0 | 1748.6 | 1072.6 | 696.8 | 200.3 | 52.7 | 71.1 |
| 85° | 146.1 | 148.6 | 485.1 | 623.8 | 758.5 | 541.8 | 318.6 | 585.0 | 54.2 | 30.8 | 57.7 |
| 87.5° | 56.2 | 57.2 | 179.9 | 269.9 | 193.3 | 125.3 | 149.1 | 218.2 | 7.0 | 11.9 | 8.9 |
| 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° | 2200.9 | 2200.9 | 2200.9 | 2200.9 | 2200.9 | 2200.9 | 2200.9 | 2200.9 | 2200.9 | 2200.9 | 2200.9 |
| 2.5° | 2179.0 | 2166.1 | 2134.3 | 2094.0 | 2058.2 | 2032.4 | 1993.6 | 1968.3 | 1951.4 | 1950.9 | 1944.4 |
| 5° | 2123.8 | 2097.5 | 2028.9 | 1947.4 | 1873.3 | 1806.7 | 1728.2 | 1666.1 | 1619.8 | 1612.4 | 1596.5 |
| 7.5° | 2064.7 | 2021.4 | 1916.1 | 1788.8 | 1664.6 | 1538.3 | 1391.7 | 1300.7 | 1222.7 | 1185.4 | 1181.5 |
| 10° | 2028.4 | 1967.8 | 1818.2 | 1634.3 | 1439.4 | 1234.1 | 1042.3 | 909.6 | 813.6 | 786.3 | 765.9 |
| 12.5° | 2020.9 | 1940.9 | 1742.6 | 1489.1 | 1210.8 | 939.4 | 727.2 | 586.0 | 509.5 | 485.1 | 478.6 |
| 15° | 2028.4 | 1928.5 | 1679.0 | 1345.5 | 979.2 | 666.5 | 488.1 | 406.1 | 377.3 | 370.3 | 369.8 |
| 17.5° | 2032.9 | 1913.6 | 1606.9 | 1185.9 | 754.5 | 476.2 | 373.8 | 349.9 | 345.4 | 344.9 | 345.9 |
| 20° | 2032.4 | 1890.7 | 1520.9 | 1008.0 | 561.2 | 374.3 | 338.0 | 333.0 | 332.0 | 332.5 | 332.0 |
| 22.5° | 2028.9 | 1863.9 | 1426.5 | 824.6 | 424.0 | 334.5 | 322.6 | 319.6 | 319.1 | 319.1 | 319.1 |
| 25° | 2035.4 | 1842.5 | 1322.6 | 649.1 | 349.4 | 316.1 | 308.7 | 306.2 | 305.7 | 305.7 | 304.7 |
| 27.5° | 2058.7 | 1830.6 | 1208.8 | 499.5 | 315.6 | 299.7 | 293.7 | 293.3 | 291.8 | 291.3 | 292.3 |
| 30° | 2096.5 | 1830.6 | 1084.0 | 388.7 | 295.2 | 282.8 | 278.3 | 277.3 | 276.8 | 276.4 | 276.8 |
| 32.5° | 2163.1 | 1844.5 | 947.8 | 323.1 | 275.9 | 263.9 | 260.9 | 262.4 | 260.9 | 260.9 | 260.9 |
| 35° | 2283.4 | 1886.3 | 805.2 | 281.8 | 255.5 | 245.5 | 242.6 | 244.5 | 243.5 | 243.5 | 243.1 |
| 37.5° | 2458.8 | 1963.8 | 661.6 | 257.0 | 237.6 | 227.1 | 223.2 | 226.2 | 225.2 | 225.2 | 224.7 |
| 40° | 2672.6 | 2076.6 | 524.9 | 238.1 | 220.2 | 209.3 | 205.8 | 207.3 | 204.8 | 204.8 | 205.8 |
| 42.5° | 2936.5 | 2219.8 | 405.6 | 219.7 | 202.8 | 192.4 | 190.4 | 188.9 | 184.4 | 181.9 | 182.4 |
| 45° | 3229.7 | 2368.9 | 316.1 | 201.8 | 186.4 | 177.9 | 175.0 | 171.0 | 163.5 | 158.6 | 159.1 |
| 47.5° | 3491.7 | 2483.7 | 257.0 | 184.4 | 171.5 | 165.0 | 160.5 | 153.1 | 142.2 | 136.2 | 136.7 |
| 50° | 3629.4 | 2501.1 | 218.7 | 167.0 | 157.6 | 151.1 | 144.6 | 133.2 | 120.3 | 113.8 | 113.3 |
| 52.5° | 3664.6 | 2419.6 | 190.4 | 151.1 | 143.6 | 136.2 | 127.7 | 112.3 | 97.9 | 91.0 | 90.0 |
| 55° | 3677.6 | 2295.3 | 165.0 | 136.2 | 128.7 | 120.3 | 109.3 | 92.0 | 78.5 | 71.6 | 71.1 |
| 57.5° | 3634.8 | 2109.9 | 145.1 | 122.8 | 113.8 | 103.4 | 90.0 | 73.6 | 60.6 | 55.2 | 55.2 |
| 60° | 3539.9 | 1858.9 | 129.7 | 108.4 | 98.4 | 86.5 | 72.6 | 57.2 | 45.2 | 40.8 | 40.8 |
| 62.5° | 3350.5 | 1533.9 | 115.3 | 93.4 | 84.0 | 71.6 | 58.7 | 43.2 | 31.8 | 29.3 | 29.8 |
| 65° | 2993.2 | 1163.6 | 100.9 | 80.0 | 71.6 | 59.1 | 45.7 | 30.8 | 21.4 | 21.4 | 22.4 |
| 67.5° | 2440.9 | 808.2 | 86.0 | 68.1 | 61.6 | 48.2 | 34.8 | 21.4 | 14.9 | 16.9 | 18.9 |
| 70° | 1615.9 | 453.3 | 73.6 | 56.2 | 52.7 | 38.3 | 25.8 | 14.4 | 11.9 | 15.9 | 19.4 |
| 72.5° | 609.9 | 176.4 | 61.6 | 45.2 | 45.7 | 29.3 | 18.4 | 10.9 | 10.9 | 17.4 | 22.9 |
| 75° | 170.0 | 86.5 | 44.2 | 33.3 | 35.8 | 21.4 | 13.4 | 9.4 | 10.4 | 19.9 | 26.8 |
| 77.5° | 99.9 | 63.6 | 28.8 | 19.4 | 24.4 | 14.9 | 8.9 | 7.5 | 8.9 | 16.9 | 25.8 |
| 80° | 80.5 | 33.8 | 16.9 | 9.9 | 13.4 | 8.4 | 6.0 | 4.5 | 2.5 | 6.5 | 13.4 |
| 82.5° | 80.5 | 20.4 | 8.0 | 7.0 | 7.0 | 4.5 | 3.0 | 2.0 | 0.5 | 0.0 | 3.5 |
| 85° | 54.2 | 8.4 | 5.0 | 4.5 | 3.5 | 1.5 | 1.0 | 0.5 | 0.0 | 0.0 | 0.0 |
| 87.5° | 8.9 | 3.5 | 2.0 | 1.0 | 0.5 | 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)