

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: P386636

Luminaire Tested: GAW-SA2B-750-U-SL2-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386636
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA2B-750-U-SL2-HSS
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 5000K, 800mA 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: 9878 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

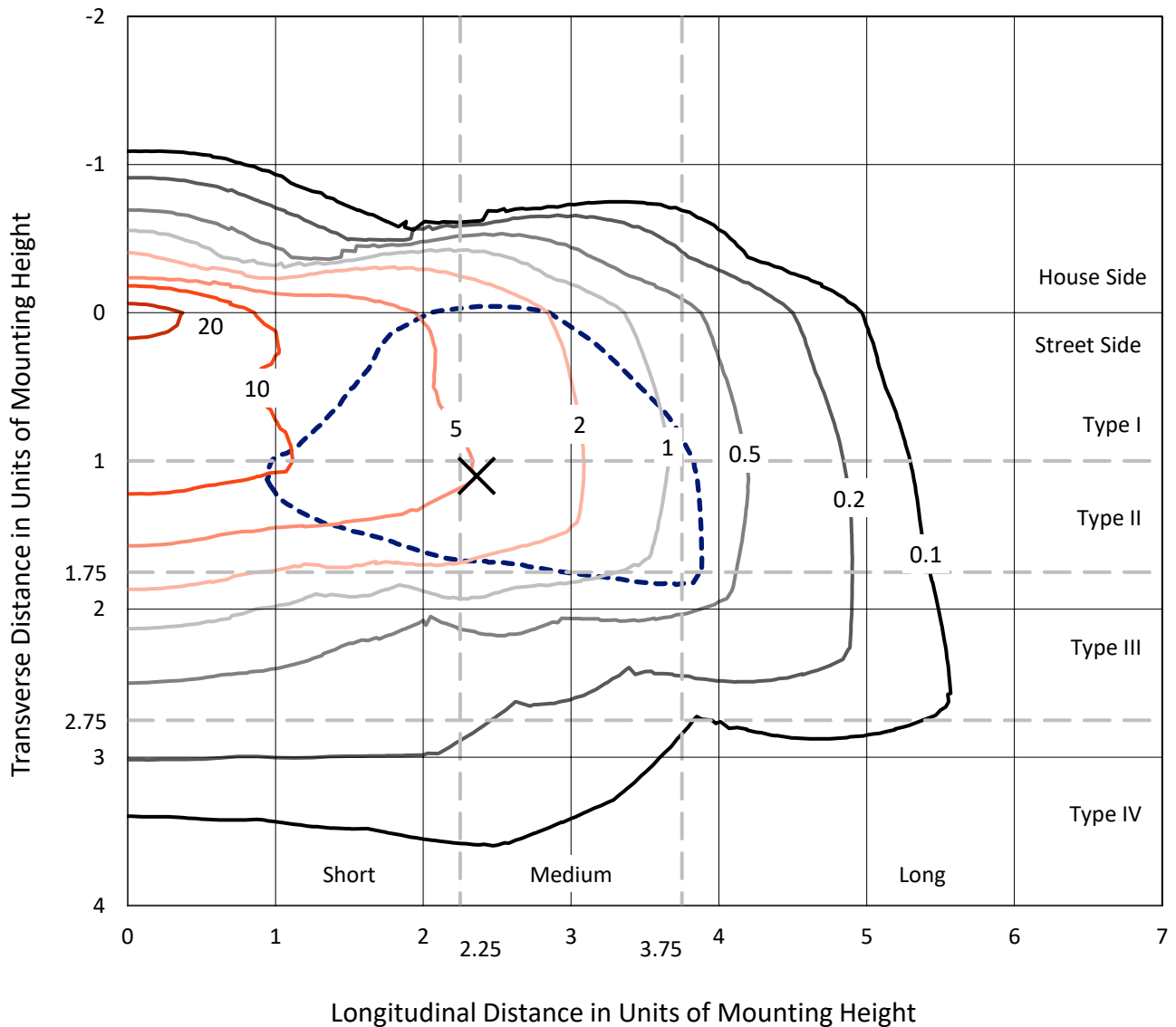
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

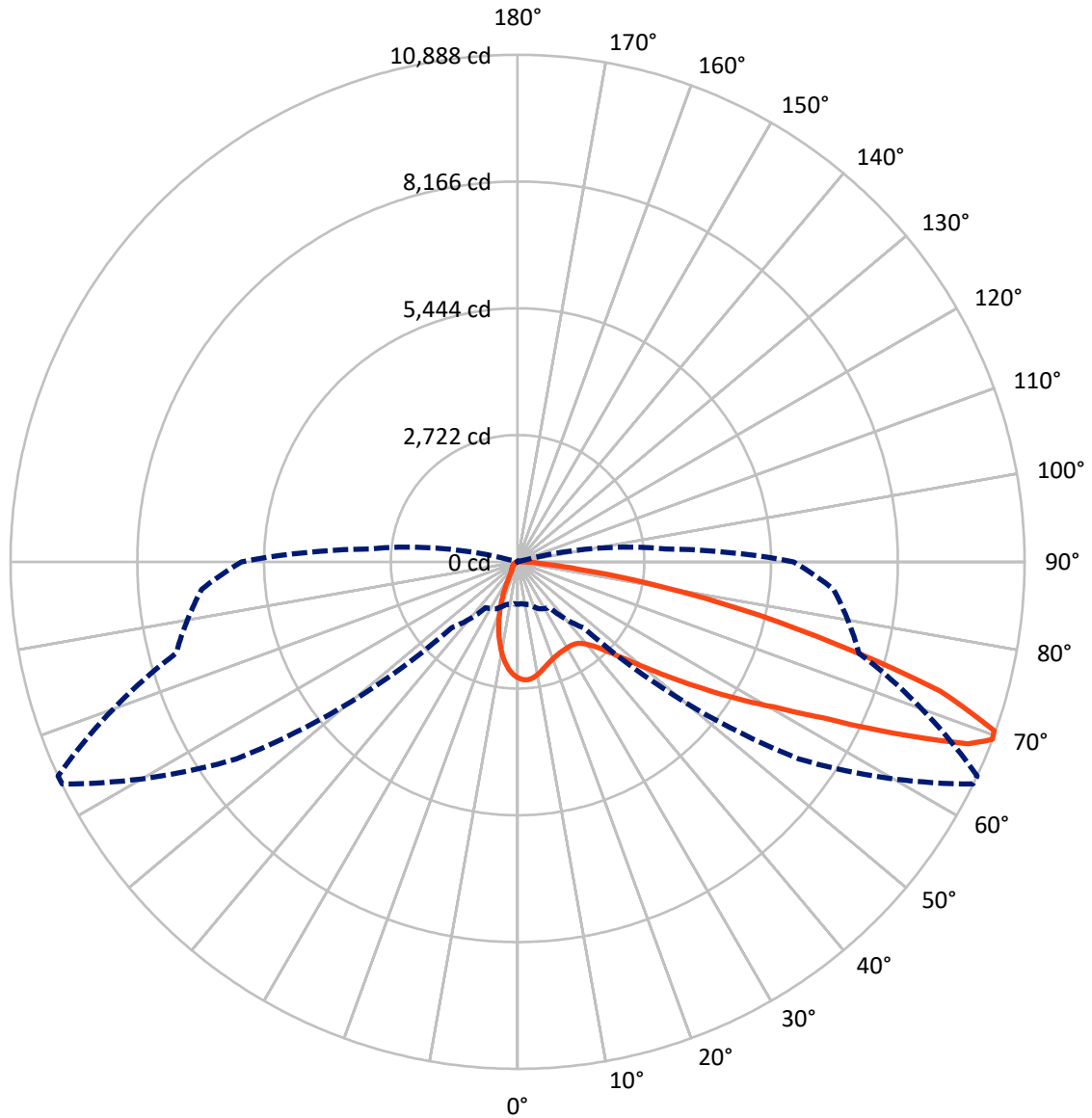
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 25 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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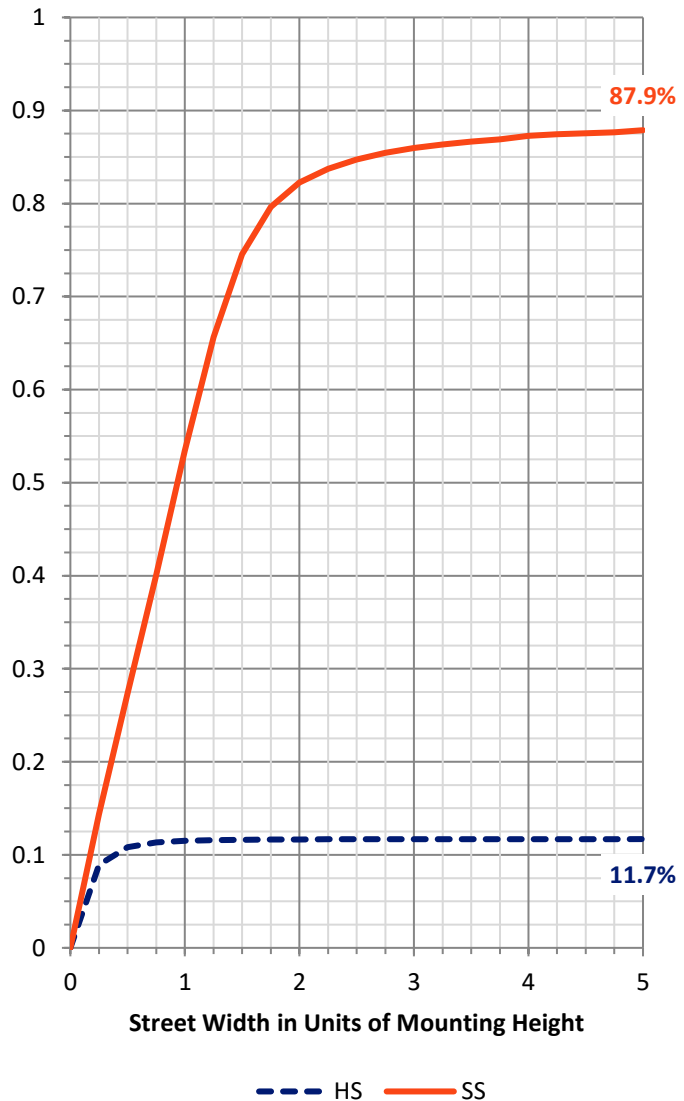
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1164.4 | 0.0 | 1164.4 |
| | % Fixture | 11.8 | 0.0 | 11.8 |
| Street Side | Lumens | 8713.6 | 0.0 | 8713.6 |
| | % Fixture | 88.2 | 0.0 | 88.2 |
| Total | Lumens | 9878.0 | 0.0 | 9878.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 208.7 | 2.1 |
| 10°-20° | 456.9 | 4.6 |
| 20°-30° | 632.9 | 6.4 |
| 30°-40° | 882.4 | 8.9 |
| 40°-50° | 1371.6 | 13.9 |
| 50°-60° | 2201.9 | 22.3 |
| 60°-70° | 2490.7 | 25.2 |
| 70°-80° | 1462.8 | 14.8 |
| 80°-90° | 170.2 | 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° | 9878.0 | 100.0 |
| 0°-180° | 9878.0 | 100.0 |

Coefficient of Utilization

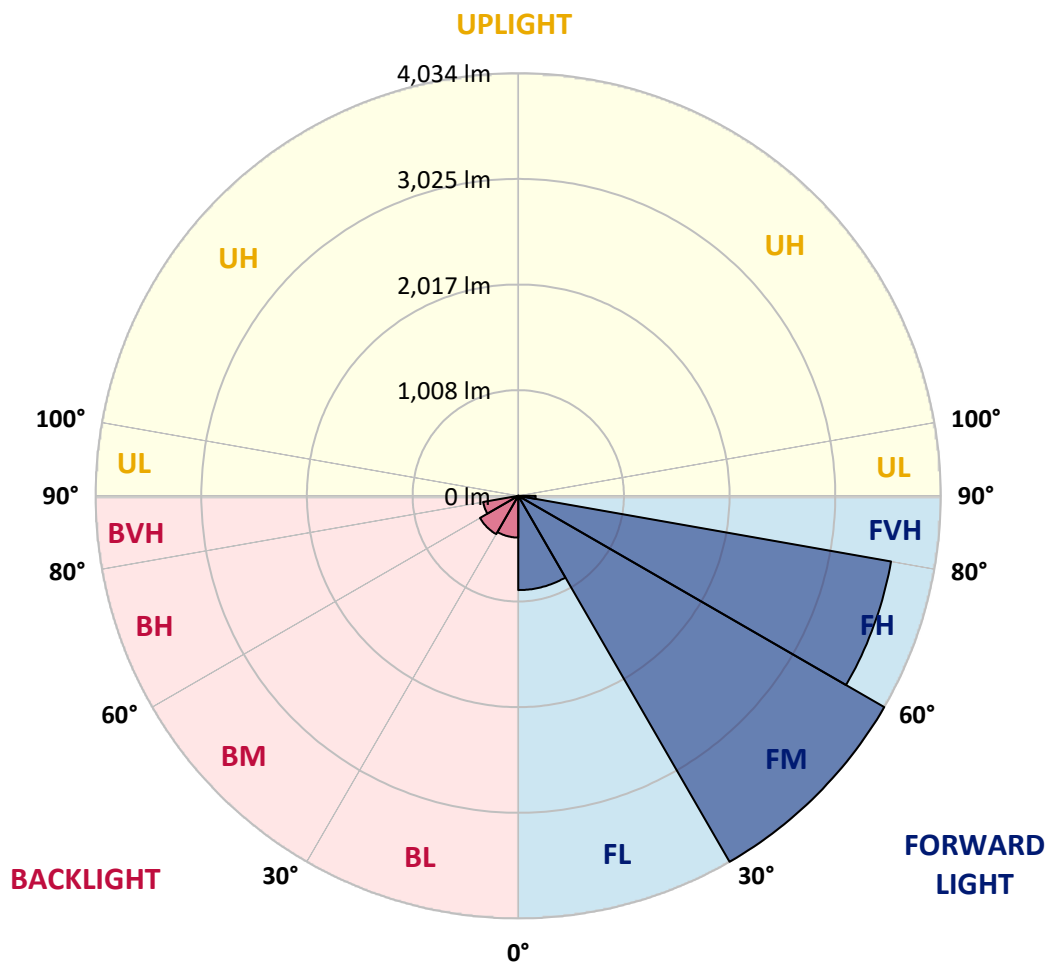


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 900.1 | 9.1 | | | |
| FM (30°-60°) | 4033.9 | 40.8 | | | |
| FH (60°-80°) | 3613.3 | 36.6 | | | G2/5000 |
| FVH (80°-90°) | 166.3 | 1.7 | | | G2/225 |
| BL (0°-30°) | 398.4 | 4.0 | B1/500 | | |
| BM (30°-60°) | 421.9 | 4.3 | B1/1000 | | |
| BH (60°-80°) | 340.2 | 3.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 3.8 | 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° | 64° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|--------|--------|
| 0° | 2496.2 | 2496.2 | 2496.2 | 2496.2 | 2496.2 | 2496.2 | 2496.2 | 2496.2 | 2496.2 | 2496.2 | 2496.2 |
| 2.5° | 2518.3 | 2512.1 | 2517.1 | 2528.0 | 2533.4 | 2533.4 | 2537.6 | 2532.6 | 2534.2 | 2522.1 | 2504.5 |
| 5° | 2360.8 | 2351.1 | 2364.9 | 2395.5 | 2433.1 | 2465.3 | 2512.9 | 2538.0 | 2540.5 | 2540.9 | 2520.4 |
| 7.5° | 2191.1 | 2182.3 | 2202.8 | 2238.7 | 2287.2 | 2347.0 | 2430.1 | 2502.9 | 2507.1 | 2546.3 | 2531.3 |
| 10° | 2053.1 | 2046.9 | 2070.7 | 2109.1 | 2166.0 | 2232.9 | 2334.8 | 2436.0 | 2448.1 | 2535.1 | 2529.6 |
| 12.5° | 1943.6 | 1938.6 | 1961.2 | 2005.5 | 2063.6 | 2137.6 | 2244.1 | 2361.6 | 2377.9 | 2509.6 | 2521.3 |
| 15° | 1863.8 | 1862.9 | 1881.8 | 1924.4 | 1988.8 | 2057.7 | 2166.8 | 2292.6 | 2311.4 | 2482.0 | 2520.0 |
| 17.5° | 1822.0 | 1823.2 | 1837.0 | 1873.4 | 1928.6 | 1997.1 | 2101.6 | 2234.5 | 2255.0 | 2457.3 | 2526.3 |
| 20° | 1817.8 | 1819.1 | 1826.6 | 1847.1 | 1891.8 | 1952.4 | 2048.5 | 2185.6 | 2206.9 | 2438.9 | 2536.3 |
| 22.5° | 1854.6 | 1853.7 | 1855.8 | 1853.7 | 1878.8 | 1924.8 | 2013.4 | 2148.0 | 2172.7 | 2426.8 | 2544.3 |
| 25° | 1925.2 | 1924.0 | 1923.1 | 1907.7 | 1891.0 | 1915.6 | 1998.8 | 2126.7 | 2150.1 | 2418.0 | 2548.9 |
| 27.5° | 2023.5 | 2022.6 | 2021.4 | 1995.9 | 1945.7 | 1930.2 | 2000.5 | 2118.8 | 2138.4 | 2410.9 | 2548.0 |
| 30° | 2152.6 | 2158.5 | 2156.8 | 2121.3 | 2043.1 | 1975.0 | 2018.0 | 2114.6 | 2131.7 | 2397.1 | 2539.2 |
| 32.5° | 2304.3 | 2316.0 | 2325.2 | 2287.2 | 2189.4 | 2063.6 | 2058.6 | 2119.2 | 2131.7 | 2386.7 | 2523.4 |
| 35° | 2461.9 | 2477.0 | 2510.8 | 2497.4 | 2368.7 | 2196.9 | 2128.4 | 2146.8 | 2157.2 | 2392.5 | 2515.8 |
| 37.5° | 2617.0 | 2635.0 | 2708.5 | 2747.4 | 2603.6 | 2373.3 | 2237.0 | 2214.9 | 2220.3 | 2428.1 | 2524.2 |
| 40° | 2797.1 | 2824.3 | 2935.9 | 2998.6 | 2884.1 | 2609.5 | 2399.6 | 2331.9 | 2334.0 | 2506.2 | 2563.1 |
| 42.5° | 3033.7 | 3061.7 | 3182.5 | 3280.7 | 3200.1 | 2907.9 | 2620.3 | 2510.8 | 2508.7 | 2652.5 | 2654.6 |
| 45° | 3322.1 | 3351.4 | 3476.4 | 3585.4 | 3549.1 | 3261.5 | 2902.9 | 2772.1 | 2769.5 | 2883.2 | 2828.1 |
| 47.5° | 3649.0 | 3677.8 | 3789.4 | 3901.9 | 3941.2 | 3674.5 | 3262.8 | 3128.6 | 3122.7 | 3203.8 | 3096.0 |
| 50° | 3929.4 | 3948.3 | 4051.1 | 4202.4 | 4379.6 | 4181.9 | 3710.4 | 3581.3 | 3575.0 | 3629.8 | 3489.3 |
| 52.5° | 4031.4 | 4042.3 | 4146.8 | 4358.7 | 4800.9 | 4869.1 | 4298.5 | 4132.2 | 4127.6 | 4151.4 | 4013.0 |
| 55° | 3825.0 | 3844.6 | 3972.9 | 4287.2 | 5029.2 | 5645.7 | 5040.9 | 4814.3 | 4779.6 | 4728.2 | 4560.6 |
| 57.5° | 3262.3 | 3293.7 | 3431.6 | 3849.6 | 4922.6 | 6261.8 | 6131.8 | 5585.9 | 5534.9 | 5220.6 | 5005.8 |
| 60° | 2444.4 | 2482.8 | 2597.3 | 3048.3 | 4353.7 | 6481.2 | 7323.9 | 6445.7 | 6330.8 | 5612.7 | 5415.0 |
| 62.5° | 1677.4 | 1696.6 | 1774.3 | 2068.2 | 3206.3 | 6121.8 | 8321.2 | 7597.2 | 7387.4 | 6039.0 | 5857.6 |
| 65° | 1281.1 | 1287.8 | 1319.6 | 1420.7 | 1909.3 | 4972.7 | 8717.8 | 9116.6 | 8862.9 | 6548.9 | 6317.0 |
| 67.5° | 1032.4 | 1027.0 | 1070.9 | 1215.5 | 1278.6 | 3033.7 | 8255.1 | 10554.0 | 10435.3 | 7230.7 | 6779.2 |
| 69° | 910.4 | 902.8 | 947.6 | 1115.6 | 1200.9 | 2005.5 | 7379.9 | 10880.5 | 10888.0 | 7590.6 | 6811.0 |
| 70° | 819.2 | 824.3 | 868.6 | 1056.2 | 1174.5 | 1574.1 | 6543.9 | 10797.3 | 10856.7 | 7725.1 | 6620.4 |
| 72.5° | 547.1 | 560.5 | 649.5 | 876.9 | 1129.4 | 1191.2 | 3951.2 | 9265.4 | 9493.6 | 7422.1 | 5680.0 |
| 75° | 308.5 | 318.5 | 424.3 | 661.2 | 1064.2 | 1134.4 | 2087.0 | 6826.1 | 7046.8 | 6206.6 | 4380.0 |
| 77.5° | 151.3 | 156.7 | 239.9 | 426.8 | 889.9 | 1080.9 | 1183.7 | 4636.7 | 4888.7 | 4051.1 | 2477.4 |
| 80° | 64.0 | 66.9 | 120.0 | 263.3 | 636.2 | 1031.6 | 879.0 | 2853.6 | 2884.9 | 1587.1 | 660.0 |
| 82.5° | 24.7 | 25.5 | 50.6 | 164.3 | 404.2 | 804.2 | 735.2 | 1353.0 | 1320.4 | 298.9 | 150.5 |
| 85° | 2.9 | 3.3 | 18.4 | 98.6 | 224.9 | 413.8 | 597.3 | 583.1 | 539.6 | 59.4 | 77.3 |
| 87.5° | 0.0 | 0.0 | 1.3 | 30.1 | 66.9 | 193.9 | 310.6 | 242.0 | 218.2 | 19.2 | 40.1 |
| 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° | 2496.2 | 2496.2 | 2496.2 | 2496.2 | 2496.2 | 2496.2 | 2496.2 | 2496.2 | 2496.2 | 2496.2 | 2496.2 |
| 2.5° | 2489.9 | 2485.7 | 2463.2 | 2430.6 | 2399.6 | 2361.2 | 2324.4 | 2302.2 | 2284.7 | 2273.0 | 2286.8 |
| 5° | 2496.6 | 2478.2 | 2409.7 | 2321.9 | 2235.8 | 2138.8 | 2048.5 | 1972.0 | 1941.9 | 1908.5 | 1923.6 |
| 7.5° | 2494.5 | 2459.8 | 2336.5 | 2180.2 | 2022.2 | 1858.8 | 1704.1 | 1585.0 | 1523.1 | 1462.5 | 1478.0 |
| 10° | 2484.1 | 2425.5 | 2238.7 | 2007.1 | 1770.6 | 1535.7 | 1316.2 | 1149.5 | 1056.2 | 971.8 | 983.9 |
| 12.5° | 2461.1 | 2379.6 | 2123.3 | 1809.0 | 1492.6 | 1182.9 | 925.8 | 712.2 | 597.7 | 547.1 | 553.4 |
| 15° | 2447.3 | 2334.8 | 2001.3 | 1608.4 | 1195.8 | 823.8 | 565.9 | 420.9 | 368.7 | 351.9 | 354.0 |
| 17.5° | 2440.6 | 2291.8 | 1875.1 | 1378.9 | 892.4 | 524.6 | 365.7 | 322.7 | 311.4 | 308.5 | 309.3 |
| 20° | 2433.9 | 2248.3 | 1745.1 | 1152.0 | 614.9 | 352.8 | 300.5 | 288.0 | 283.8 | 280.0 | 280.9 |
| 22.5° | 2422.6 | 2206.5 | 1605.5 | 922.1 | 414.6 | 286.3 | 270.9 | 258.7 | 250.0 | 245.4 | 246.2 |
| 25° | 2408.8 | 2162.6 | 1462.9 | 686.7 | 302.6 | 255.4 | 240.8 | 223.6 | 213.2 | 204.8 | 205.2 |
| 27.5° | 2386.7 | 2108.7 | 1315.8 | 499.9 | 254.1 | 228.6 | 209.0 | 190.2 | 172.6 | 163.0 | 163.0 |
| 30° | 2355.7 | 2047.7 | 1152.4 | 357.8 | 227.8 | 202.3 | 178.5 | 155.1 | 136.3 | 127.5 | 126.6 |
| 32.5° | 2321.5 | 1984.2 | 987.3 | 271.3 | 206.9 | 177.6 | 150.5 | 125.8 | 109.1 | 102.0 | 101.6 |
| 35° | 2292.2 | 1915.6 | 822.6 | 227.4 | 186.0 | 153.8 | 124.1 | 103.2 | 89.9 | 84.0 | 83.6 |
| 37.5° | 2273.4 | 1847.1 | 662.1 | 203.1 | 167.2 | 131.7 | 104.1 | 85.3 | 75.7 | 71.1 | 70.6 |
| 40° | 2270.5 | 1796.1 | 515.4 | 184.7 | 149.6 | 112.0 | 86.9 | 72.3 | 63.5 | 58.5 | 58.1 |
| 42.5° | 2308.5 | 1766.8 | 395.4 | 169.3 | 131.7 | 94.9 | 74.0 | 61.9 | 52.7 | 47.6 | 47.2 |
| 45° | 2408.4 | 1776.0 | 304.3 | 155.5 | 113.7 | 80.3 | 62.7 | 51.4 | 43.1 | 39.3 | 38.5 |
| 47.5° | 2590.7 | 1839.5 | 242.0 | 141.7 | 96.6 | 68.1 | 53.5 | 42.6 | 35.5 | 31.8 | 31.3 |
| 50° | 2915.0 | 1988.8 | 202.3 | 126.6 | 80.7 | 58.1 | 44.3 | 34.7 | 28.8 | 25.5 | 25.1 |
| 52.5° | 3345.5 | 2254.6 | 180.6 | 112.0 | 66.9 | 49.3 | 36.4 | 27.6 | 22.6 | 20.1 | 19.6 |
| 55° | 3820.4 | 2576.4 | 166.4 | 96.1 | 54.8 | 41.0 | 28.8 | 21.7 | 17.6 | 15.5 | 14.6 |
| 57.5° | 4283.9 | 2855.2 | 153.0 | 80.7 | 45.6 | 33.4 | 23.0 | 17.1 | 13.8 | 11.7 | 11.3 |
| 60° | 4709.8 | 3111.5 | 137.5 | 64.8 | 37.2 | 26.3 | 18.0 | 13.4 | 10.9 | 8.8 | 8.8 |
| 62.5° | 5165.8 | 3309.6 | 116.2 | 50.6 | 30.5 | 20.1 | 14.6 | 12.1 | 8.8 | 7.5 | 7.1 |
| 65° | 5649.0 | 3456.7 | 91.1 | 39.3 | 23.8 | 15.0 | 12.1 | 12.5 | 7.1 | 5.4 | 5.0 |
| 67.5° | 6006.0 | 3427.5 | 67.3 | 30.9 | 18.4 | 11.7 | 11.7 | 13.4 | 6.3 | 4.2 | 3.8 |
| 69° | 5927.4 | 3189.6 | 56.4 | 26.8 | 15.9 | 10.0 | 10.9 | 13.4 | 5.9 | 3.8 | 3.3 |
| 70° | 5699.6 | 2926.3 | 49.7 | 23.8 | 14.2 | 9.2 | 10.4 | 13.0 | 5.4 | 3.8 | 3.3 |
| 72.5° | 4746.6 | 2204.0 | 38.9 | 18.0 | 11.3 | 7.5 | 8.8 | 11.3 | 5.4 | 3.8 | 2.9 |
| 75° | 3570.4 | 1410.7 | 29.7 | 13.0 | 8.4 | 5.9 | 6.7 | 8.4 | 5.4 | 3.3 | 2.9 |
| 77.5° | 1942.8 | 508.7 | 21.3 | 8.8 | 5.9 | 4.6 | 4.6 | 6.3 | 5.0 | 2.5 | 1.7 |
| 80° | 499.5 | 127.9 | 13.4 | 5.9 | 4.6 | 3.3 | 2.9 | 4.2 | 2.9 | 0.4 | 0.0 |
| 82.5° | 123.3 | 28.8 | 7.1 | 4.2 | 3.3 | 1.3 | 1.3 | 2.1 | 1.3 | 0.0 | 0.0 |
| 85° | 67.7 | 14.2 | 4.6 | 2.9 | 1.7 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 | 0.0 |
| 87.5° | 34.7 | 4.2 | 1.3 | 0.8 | 0.4 | 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)