

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: McGRAW-EDISON

Report Number: P451561

Luminaire Tested: **GALN-SA2C-722-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451561
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-722-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2200K, 1050mA 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: 8597 lumens
Efficiency: N/A
Efficacy: 79.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

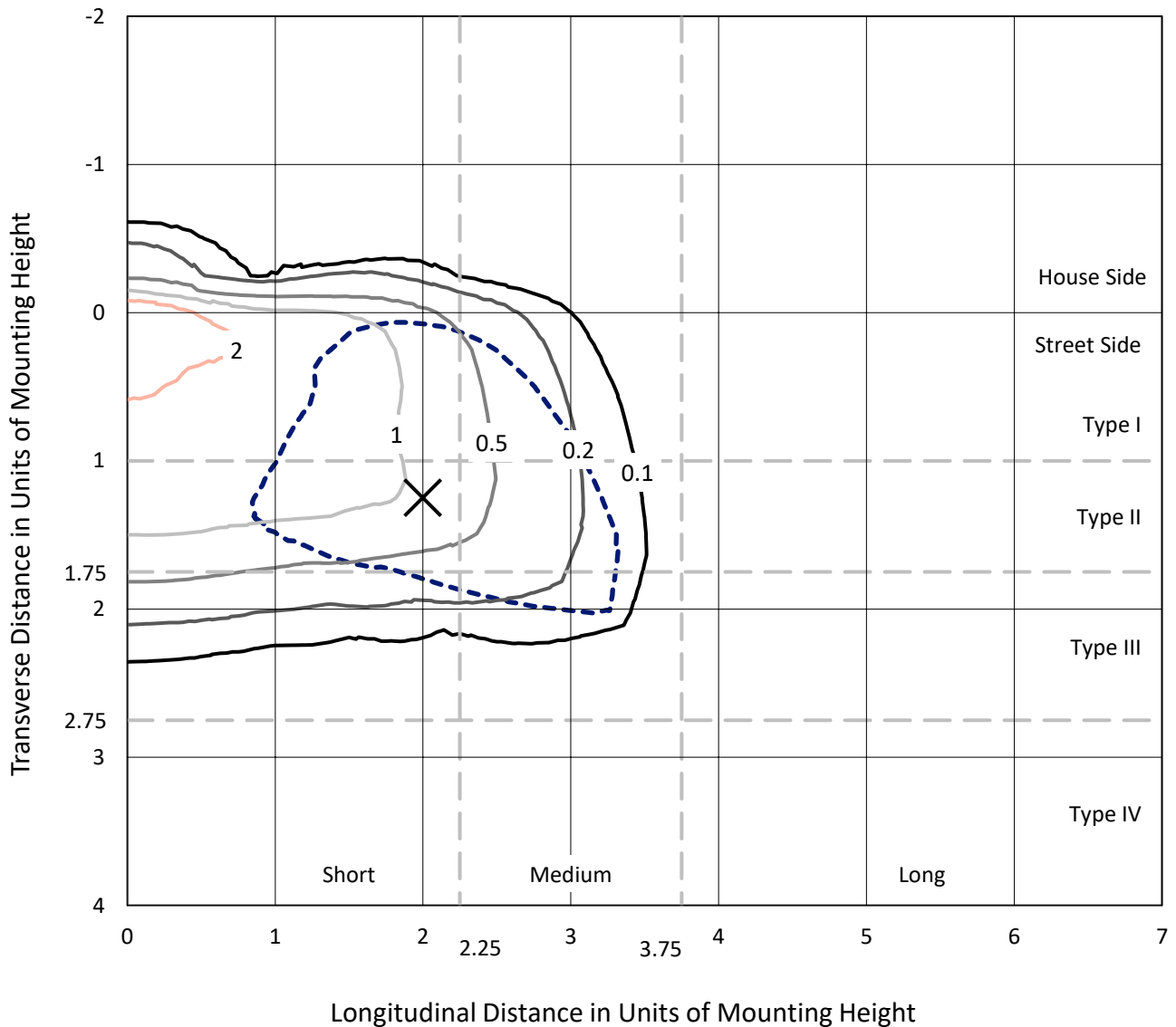
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

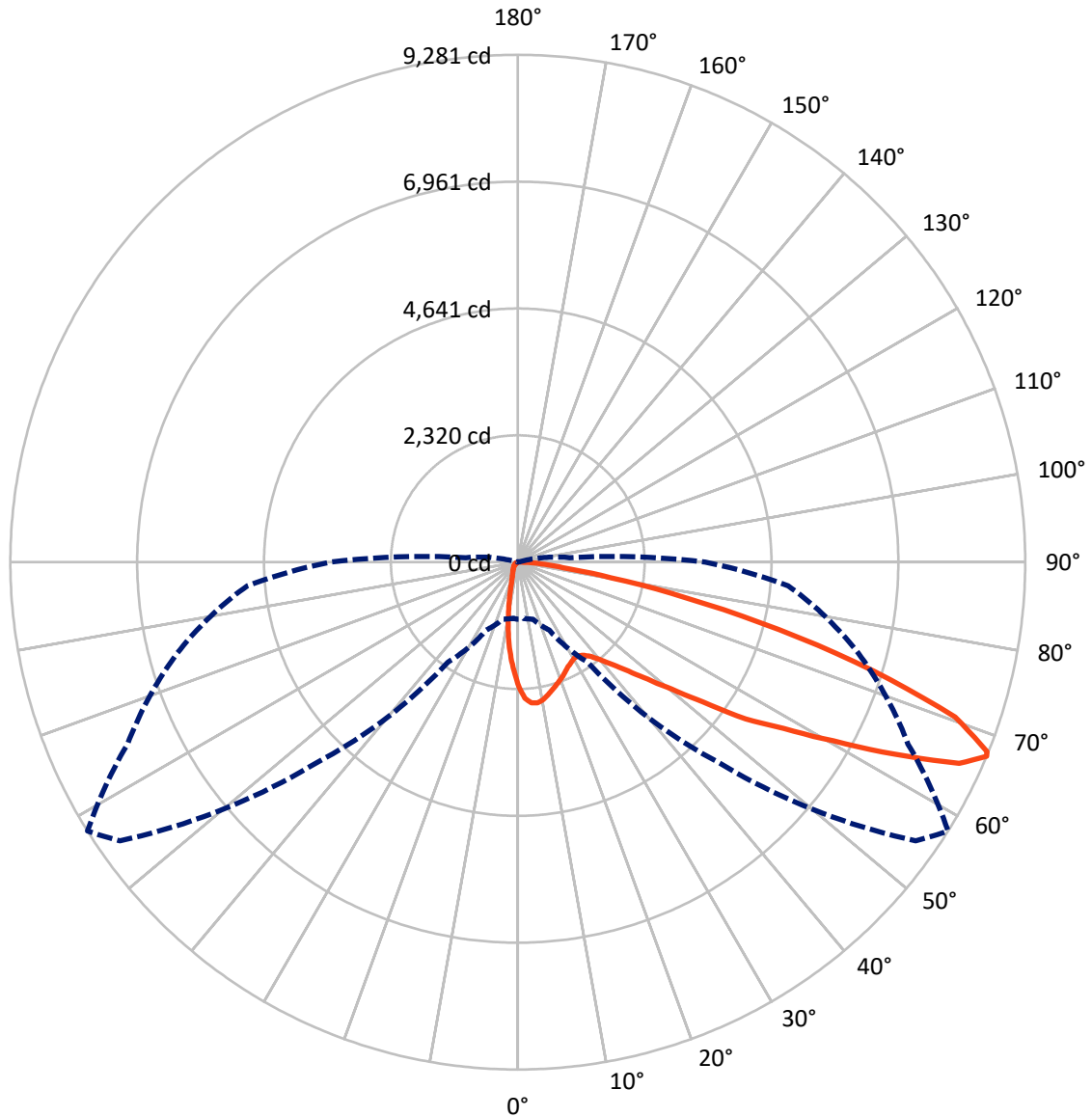
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 620.4 | 0.0 | 620.4 |
| | % Fixture | 7.2 | 0.0 | 7.2 |
| Street Side | Lumens | 7976.6 | 0.0 | 7976.6 |
| | % Fixture | 92.8 | 0.0 | 92.8 |
| Total | Lumens | 8597.0 | 0.0 | 8597.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 184.9 | 2.2 |
| 10°-20° | 399.4 | 4.6 |
| 20°-30° | 541.2 | 6.3 |
| 30°-40° | 750.7 | 8.7 |
| 40°-50° | 1197.2 | 13.9 |
| 50°-60° | 2069.5 | 24.1 |
| 60°-70° | 2364.0 | 27.5 |
| 70°-80° | 985.6 | 11.5 |
| 80°-90° | 104.5 | 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° | 8597.0 | 100.0 |
| 0°-180° | 8597.0 | 100.0 |



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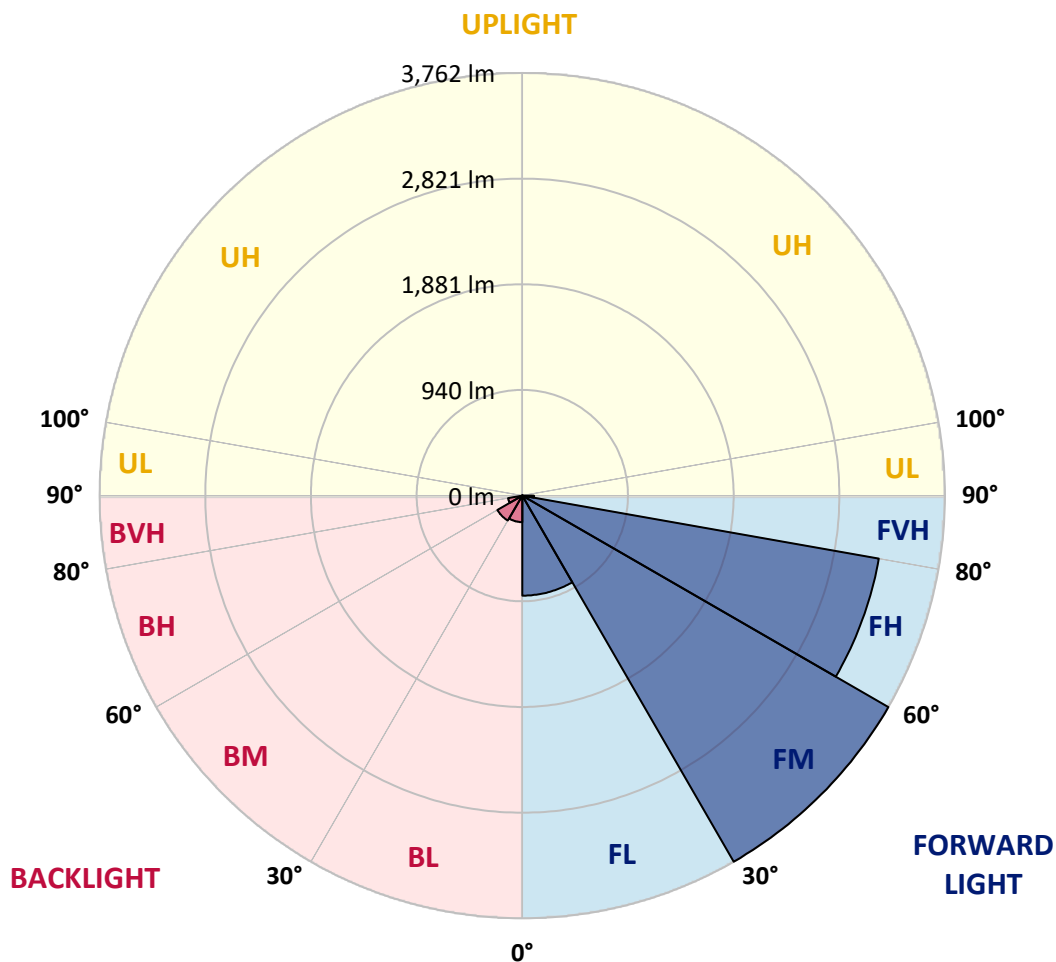
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 890.0 | 10.4 | | | |
| FM (30°-60°) | 3761.5 | 43.8 | | | |
| FH (60°-80°) | 3221.3 | 37.5 | | | G2/5000 |
| FVH (80°-90°) | 103.7 | 1.2 | | | G2/225 |
| BL (0°-30°) | 235.6 | 2.7 | B1/500 | | |
| BM (30°-60°) | 255.8 | 3.0 | B1/1000 | | |
| BH (60°-80°) | 128.3 | 1.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 0.8 | 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 Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2279.0 | 2279.0 | 2279.0 | 2279.0 | 2279.0 | 2279.0 | 2279.0 | 2279.0 | 2279.0 | 2279.0 | 2279.0 |
| 2.5° | 2644.9 | 2649.0 | 2634.0 | 2622.0 | 2590.9 | 2557.6 | 2513.4 | 2489.8 | 2449.6 | 2380.1 | 2303.1 |
| 5° | 2707.0 | 2712.1 | 2709.9 | 2707.0 | 2694.9 | 2662.7 | 2606.4 | 2585.8 | 2526.6 | 2413.4 | 2274.4 |
| 7.5° | 2569.1 | 2588.1 | 2590.4 | 2612.8 | 2634.0 | 2636.9 | 2615.6 | 2600.1 | 2545.5 | 2412.8 | 2223.3 |
| 10° | 2386.4 | 2399.1 | 2417.4 | 2443.3 | 2494.4 | 2536.9 | 2557.6 | 2555.3 | 2523.7 | 2395.0 | 2163.5 |
| 12.5° | 2202.0 | 2208.9 | 2237.0 | 2281.3 | 2343.9 | 2416.3 | 2471.4 | 2482.4 | 2482.9 | 2373.8 | 2113.5 |
| 15° | 2043.4 | 2040.6 | 2062.4 | 2113.5 | 2201.4 | 2292.2 | 2391.0 | 2408.2 | 2435.8 | 2353.1 | 2067.0 |
| 17.5° | 1907.9 | 1922.8 | 1926.3 | 1982.6 | 2063.6 | 2181.3 | 2307.1 | 2337.6 | 2392.7 | 2335.3 | 2028.5 |
| 20° | 1824.0 | 1832.0 | 1839.5 | 1871.1 | 1944.1 | 2068.1 | 2228.4 | 2270.4 | 2352.5 | 2319.2 | 1985.4 |
| 22.5° | 1799.3 | 1804.5 | 1798.1 | 1807.9 | 1859.6 | 1969.9 | 2142.8 | 2198.6 | 2314.0 | 2304.3 | 1950.4 |
| 25° | 1818.2 | 1823.4 | 1808.5 | 1797.0 | 1814.8 | 1890.1 | 2060.1 | 2127.9 | 2283.0 | 2301.4 | 1924.0 |
| 27.5° | 1864.2 | 1874.0 | 1853.3 | 1832.6 | 1822.3 | 1847.0 | 1995.2 | 2073.9 | 2261.8 | 2315.2 | 1911.9 |
| 30° | 1936.0 | 1941.8 | 1926.3 | 1901.0 | 1877.4 | 1852.7 | 1961.3 | 2036.6 | 2256.0 | 2347.3 | 1910.7 |
| 32.5° | 2014.1 | 2026.2 | 2017.6 | 2000.9 | 1970.5 | 1911.9 | 1971.1 | 2037.7 | 2269.8 | 2393.9 | 1925.1 |
| 35° | 2110.7 | 2124.4 | 2132.5 | 2129.0 | 2090.0 | 2017.0 | 2033.1 | 2089.4 | 2306.6 | 2479.5 | 1964.2 |
| 37.5° | 2205.5 | 2217.5 | 2262.9 | 2278.4 | 2243.9 | 2175.0 | 2153.7 | 2191.1 | 2387.6 | 2591.5 | 2034.8 |
| 40° | 2314.0 | 2330.1 | 2393.9 | 2453.1 | 2436.4 | 2364.0 | 2324.9 | 2356.0 | 2511.7 | 2760.4 | 2168.7 |
| 42.5° | 2418.0 | 2446.7 | 2543.8 | 2648.4 | 2663.9 | 2582.9 | 2557.0 | 2567.4 | 2695.5 | 3003.4 | 2355.4 |
| 45° | 2565.7 | 2592.7 | 2717.9 | 2859.8 | 2932.8 | 2869.6 | 2843.1 | 2841.4 | 2947.7 | 3345.2 | 2658.1 |
| 47.5° | 2778.8 | 2802.9 | 2950.6 | 3090.7 | 3220.6 | 3229.2 | 3179.2 | 3196.4 | 3264.8 | 3745.1 | 3029.3 |
| 50° | 3040.2 | 3097.1 | 3194.1 | 3340.1 | 3513.6 | 3653.7 | 3669.2 | 3646.3 | 3704.9 | 4208.1 | 3475.1 |
| 52.5° | 3419.9 | 3441.7 | 3530.8 | 3650.9 | 3854.2 | 4092.1 | 4276.5 | 4244.9 | 4226.5 | 4649.3 | 3925.5 |
| 55° | 3703.1 | 3732.4 | 3870.9 | 4035.8 | 4333.9 | 4647.6 | 5047.4 | 5058.3 | 4826.3 | 5073.3 | 4366.1 |
| 57.5° | 3617.5 | 3662.3 | 3872.0 | 4203.5 | 4859.0 | 5432.3 | 5729.9 | 5737.4 | 5381.2 | 5485.2 | 4863.6 |
| 60° | 3178.1 | 3199.3 | 3499.8 | 3942.1 | 4903.8 | 6282.6 | 6697.9 | 6637.6 | 5945.9 | 5945.9 | 5303.1 |
| 62.5° | 2253.7 | 2287.0 | 2530.6 | 3181.5 | 4428.7 | 6577.9 | 7857.2 | 7732.6 | 6723.8 | 6386.6 | 5565.0 |
| 65° | 1440.2 | 1408.1 | 1569.5 | 2008.4 | 3299.3 | 6141.8 | 8866.6 | 8874.1 | 7455.7 | 6562.9 | 5422.0 |
| 67° | 1043.3 | 1030.6 | 1077.2 | 1373.0 | 2237.0 | 5162.9 | 8887.9 | 9281.4 | 7876.2 | 6451.5 | 4964.7 |
| 67.5° | 954.2 | 964.0 | 997.9 | 1238.6 | 2032.5 | 4698.1 | 8791.4 | 9257.3 | 7971.0 | 6384.3 | 4799.3 |
| 70° | 723.3 | 706.6 | 743.4 | 876.1 | 1218.5 | 2963.8 | 7562.5 | 8490.3 | 7853.2 | 5717.3 | 3834.7 |
| 72.5° | 532.0 | 530.3 | 581.4 | 716.4 | 938.1 | 1578.7 | 5677.1 | 6807.7 | 6415.9 | 4353.5 | 2414.6 |
| 75° | 359.1 | 375.1 | 456.7 | 598.6 | 850.2 | 1023.7 | 3870.3 | 4938.9 | 4454.0 | 2472.0 | 987.0 |
| 77.5° | 204.5 | 205.7 | 294.1 | 480.8 | 763.5 | 823.8 | 2293.3 | 3146.5 | 2357.7 | 822.1 | 293.0 |
| 80° | 88.5 | 97.1 | 145.9 | 349.3 | 633.1 | 729.6 | 1315.0 | 1729.2 | 953.6 | 174.1 | 94.8 |
| 82.5° | 32.7 | 38.5 | 64.3 | 214.9 | 461.9 | 600.9 | 794.5 | 825.5 | 323.4 | 61.5 | 59.2 |
| 85° | 0.0 | 1.1 | 23.6 | 100.5 | 240.7 | 268.3 | 530.8 | 489.5 | 143.0 | 29.3 | 38.5 |
| 87.5° | 0.0 | 0.0 | 0.0 | 10.3 | 31.6 | 100.0 | 164.9 | 183.8 | 34.5 | 10.3 | 9.2 |
| 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° | 2279.0 | 2279.0 | 2279.0 | 2279.0 | 2279.0 | 2279.0 | 2279.0 | 2279.0 | 2279.0 | 2279.0 | 2279.0 |
| 2.5° | 2261.8 | 2224.4 | 2130.8 | 2037.1 | 1967.6 | 1909.6 | 1822.3 | 1774.6 | 1749.3 | 1712.0 | 1714.3 |
| 5° | 2204.9 | 2129.0 | 1964.2 | 1793.5 | 1655.7 | 1521.2 | 1360.4 | 1295.5 | 1240.9 | 1209.9 | 1189.2 |
| 7.5° | 2120.4 | 2008.4 | 1764.2 | 1536.7 | 1324.8 | 1089.8 | 913.4 | 795.7 | 716.4 | 687.1 | 658.9 |
| 10° | 2027.9 | 1879.1 | 1561.5 | 1246.1 | 951.9 | 709.5 | 560.1 | 452.1 | 413.6 | 378.0 | 381.5 |
| 12.5° | 1942.3 | 1761.4 | 1375.3 | 983.5 | 667.0 | 451.0 | 351.6 | 307.3 | 294.7 | 290.7 | 290.7 |
| 15° | 1872.2 | 1648.8 | 1175.4 | 739.4 | 457.3 | 324.0 | 281.5 | 269.4 | 264.8 | 263.7 | 263.7 |
| 17.5° | 1797.6 | 1541.9 | 995.0 | 546.3 | 332.6 | 271.2 | 256.8 | 248.8 | 247.0 | 245.9 | 245.9 |
| 20° | 1730.9 | 1434.5 | 823.8 | 406.7 | 268.9 | 244.2 | 235.0 | 229.8 | 228.1 | 226.9 | 227.5 |
| 22.5° | 1667.7 | 1339.1 | 663.0 | 307.3 | 236.7 | 222.3 | 213.1 | 208.0 | 204.5 | 201.6 | 202.2 |
| 25° | 1611.4 | 1247.2 | 533.1 | 251.6 | 213.1 | 200.5 | 191.3 | 183.8 | 176.4 | 172.9 | 172.3 |
| 27.5° | 1571.8 | 1166.8 | 415.4 | 215.4 | 191.9 | 178.1 | 166.6 | 157.4 | 147.6 | 142.5 | 141.3 |
| 30° | 1539.0 | 1085.2 | 328.6 | 190.2 | 170.6 | 157.4 | 143.0 | 129.8 | 119.5 | 114.3 | 112.0 |
| 32.5° | 1517.8 | 1007.6 | 259.1 | 169.5 | 152.8 | 136.7 | 120.6 | 107.4 | 95.9 | 90.8 | 89.6 |
| 35° | 1514.3 | 942.7 | 212.0 | 152.2 | 136.7 | 119.5 | 102.8 | 88.5 | 78.7 | 73.5 | 72.4 |
| 37.5° | 1539.0 | 892.8 | 177.5 | 138.5 | 123.5 | 104.6 | 86.2 | 73.0 | 64.3 | 60.3 | 59.7 |
| 40° | 1605.1 | 861.2 | 154.0 | 127.0 | 111.5 | 90.8 | 73.5 | 62.0 | 53.4 | 49.4 | 49.4 |
| 42.5° | 1730.9 | 862.3 | 138.5 | 116.0 | 99.4 | 77.6 | 62.6 | 51.7 | 44.2 | 40.8 | 39.6 |
| 45° | 1927.4 | 901.4 | 125.2 | 105.1 | 87.9 | 67.2 | 53.4 | 42.5 | 35.0 | 32.2 | 32.2 |
| 47.5° | 2190.5 | 978.9 | 113.7 | 94.2 | 77.6 | 57.4 | 45.4 | 34.5 | 28.1 | 25.3 | 25.3 |
| 50° | 2534.6 | 1103.6 | 104.0 | 85.0 | 68.9 | 49.4 | 36.8 | 28.1 | 21.8 | 19.5 | 19.0 |
| 52.5° | 2894.3 | 1257.5 | 92.5 | 77.0 | 59.2 | 41.9 | 29.9 | 21.8 | 16.7 | 14.9 | 14.4 |
| 55° | 3291.2 | 1408.1 | 81.6 | 68.9 | 48.3 | 35.0 | 23.6 | 17.2 | 12.1 | 10.3 | 10.3 |
| 57.5° | 3691.6 | 1555.7 | 68.4 | 57.4 | 37.9 | 25.9 | 18.4 | 12.6 | 8.0 | 6.3 | 6.3 |
| 60° | 4030.6 | 1603.4 | 58.0 | 46.5 | 28.7 | 18.4 | 13.2 | 8.0 | 4.6 | 2.9 | 2.9 |
| 62.5° | 4077.1 | 1442.5 | 48.8 | 35.6 | 20.7 | 12.6 | 6.9 | 4.6 | 1.7 | 1.1 | 1.1 |
| 65° | 3824.4 | 1172.0 | 40.8 | 27.0 | 13.8 | 6.3 | 2.9 | 1.7 | 0.6 | 0.0 | 0.0 |
| 67° | 3426.8 | 950.2 | 33.3 | 20.1 | 9.8 | 4.0 | 1.7 | 0.6 | 0.0 | 0.0 | 0.0 |
| 67.5° | 3325.1 | 906.0 | 32.2 | 19.0 | 8.6 | 3.4 | 1.1 | 0.6 | 0.0 | 0.0 | 0.0 |
| 70° | 2609.3 | 678.5 | 23.0 | 11.5 | 5.2 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 1621.8 | 383.8 | 16.7 | 6.9 | 3.4 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 613.0 | 134.4 | 11.5 | 4.6 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 190.7 | 51.1 | 6.9 | 3.4 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 64.3 | 19.5 | 4.6 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 39.6 | 8.0 | 2.9 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 24.7 | 3.4 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 4.6 | 1.1 | 0.6 | 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)