

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: P452054

Luminaire Tested: **GALN-SA3A-727-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452054
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-SA3A-727-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 615mA 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: 9444 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

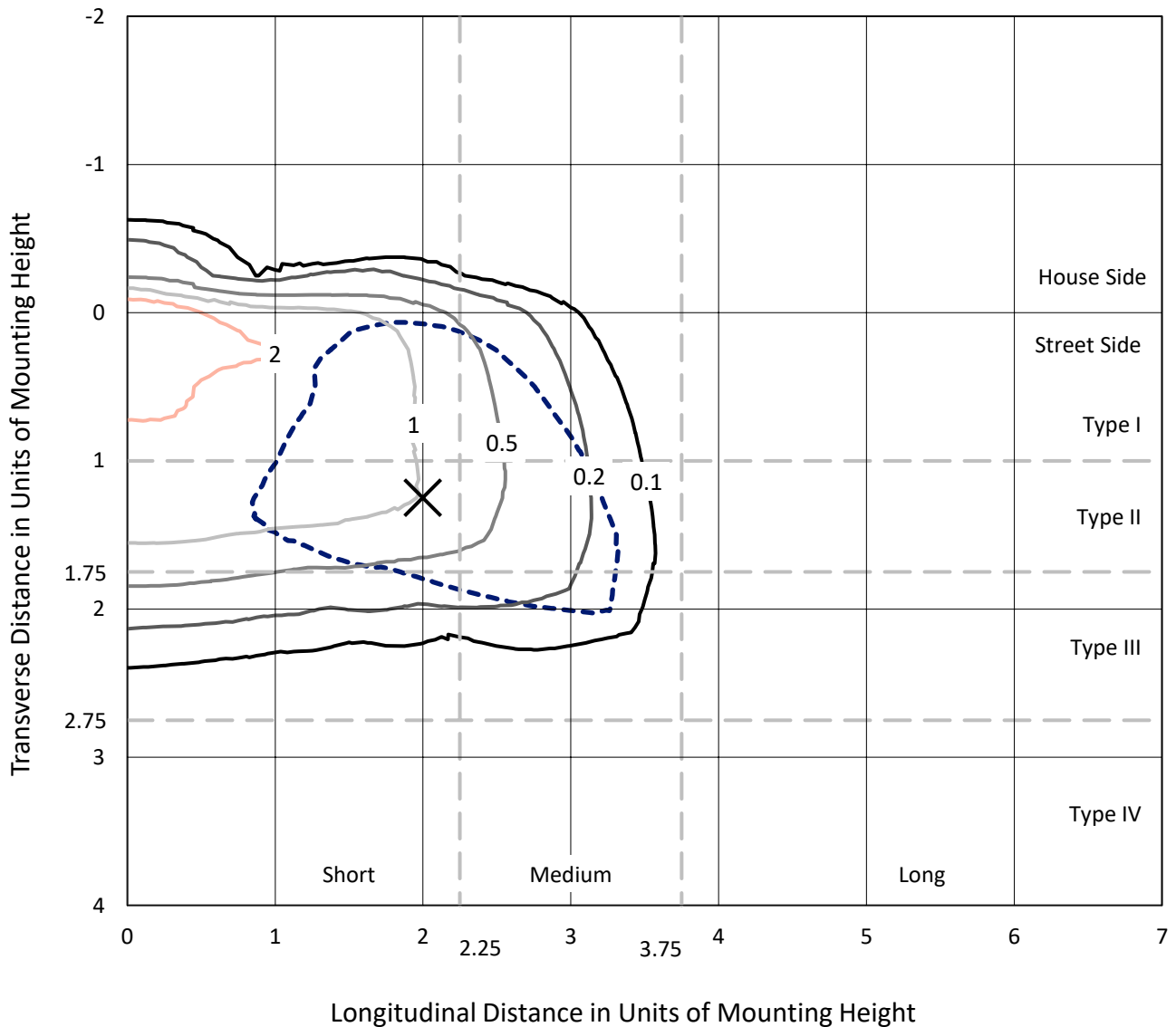
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

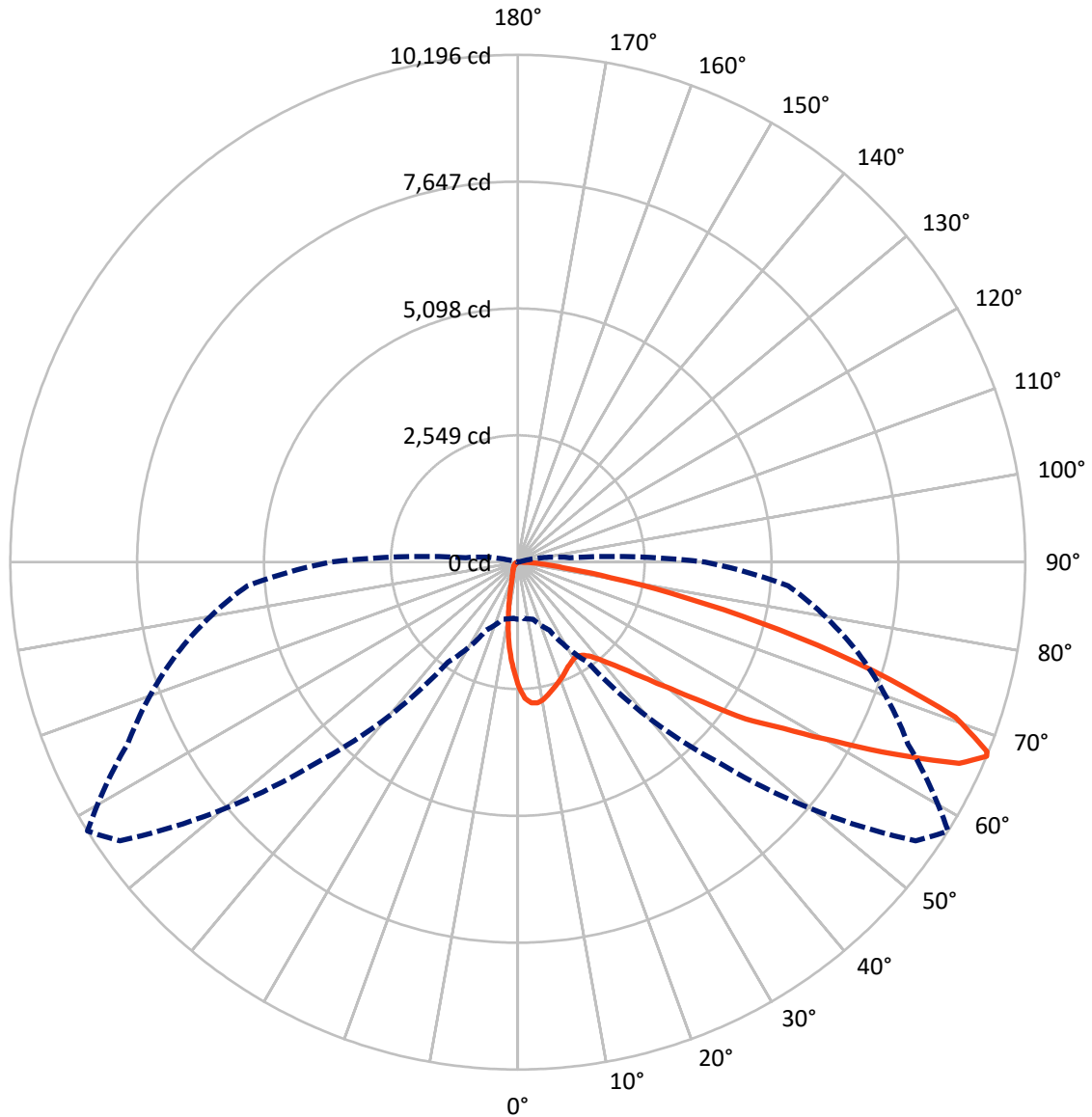
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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 | 681.5 | 0.0 | 681.5 |
| | % Fixture | 7.2 | 0.0 | 7.2 |
| Street Side | Lumens | 8762.5 | 0.0 | 8762.5 |
| | % Fixture | 92.8 | 0.0 | 92.8 |
| Total | Lumens | 9444.0 | 0.0 | 9444.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 203.2 | 2.2 |
| 10°-20° | 438.8 | 4.6 |
| 20°-30° | 594.6 | 6.3 |
| 30°-40° | 824.6 | 8.7 |
| 40°-50° | 1315.2 | 13.9 |
| 50°-60° | 2273.4 | 24.1 |
| 60°-70° | 2596.9 | 27.5 |
| 70°-80° | 1082.7 | 11.5 |
| 80°-90° | 114.8 | 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° | 9444.0 | 100.0 |
| 0°-180° | 9444.0 | 100.0 |

Coefficient of Utilization

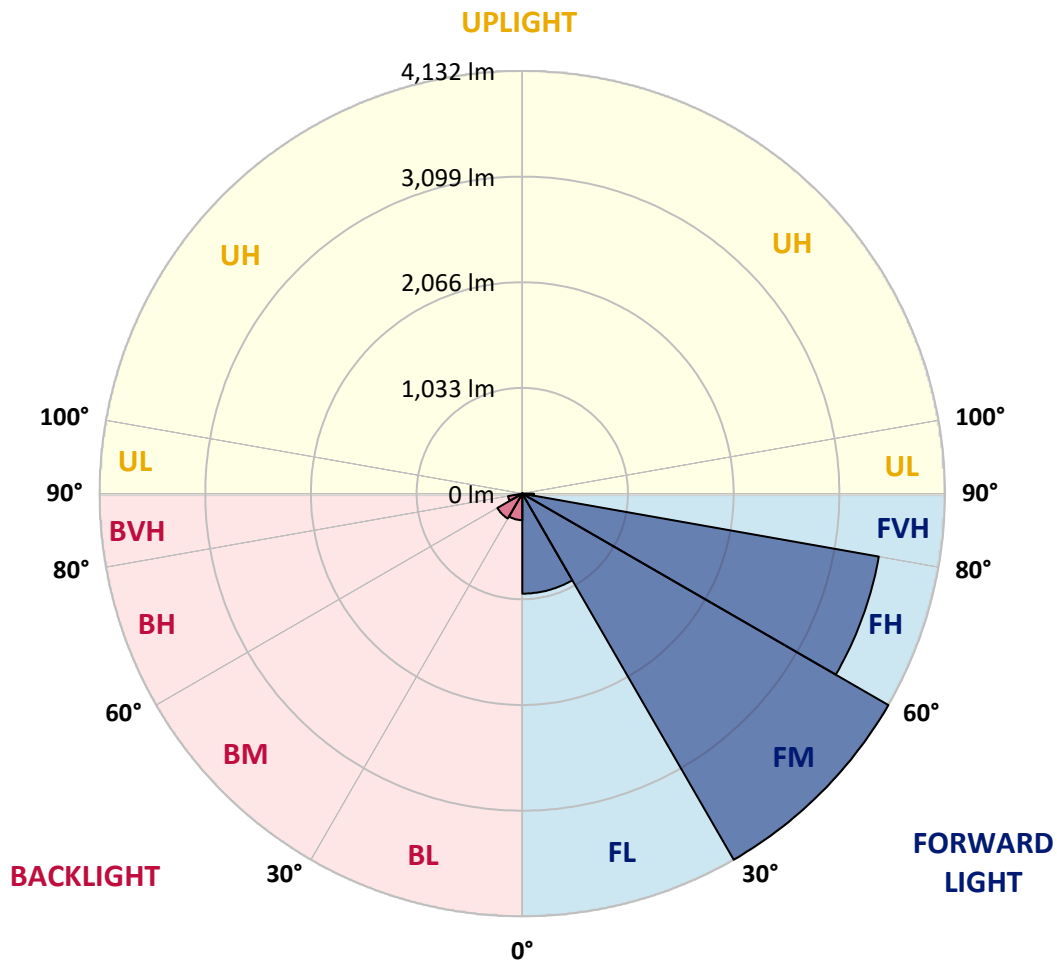


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 977.7 | 10.4 | | | |
| FM (30°-60°) | 4132.1 | 43.8 | | | |
| FH (60°-80°) | 3538.7 | 37.5 | | | G2/5000 |
| FVH (80°-90°) | 114.0 | 1.2 | | | G2/225 |
| BL (0°-30°) | 258.8 | 2.7 | B1/500 | | |
| BM (30°-60°) | 281.0 | 3.0 | B1/1000 | | |
| BH (60°-80°) | 140.9 | 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° | 2503.5 | 2503.5 | 2503.5 | 2503.5 | 2503.5 | 2503.5 | 2503.5 | 2503.5 | 2503.5 | 2503.5 | 2503.5 |
| 2.5° | 2905.5 | 2909.9 | 2893.5 | 2880.3 | 2846.2 | 2809.6 | 2761.0 | 2735.1 | 2691.0 | 2614.6 | 2530.0 |
| 5° | 2973.7 | 2979.4 | 2976.8 | 2973.7 | 2960.4 | 2925.1 | 2863.2 | 2840.5 | 2775.5 | 2651.2 | 2498.5 |
| 7.5° | 2822.2 | 2843.0 | 2845.6 | 2870.2 | 2893.5 | 2896.7 | 2873.3 | 2856.3 | 2796.3 | 2650.6 | 2442.3 |
| 10° | 2621.5 | 2635.4 | 2655.6 | 2684.0 | 2740.2 | 2786.9 | 2809.6 | 2807.1 | 2772.4 | 2631.0 | 2376.7 |
| 12.5° | 2419.0 | 2426.5 | 2457.4 | 2506.0 | 2574.8 | 2654.3 | 2714.9 | 2726.9 | 2727.6 | 2607.6 | 2321.8 |
| 15° | 2244.8 | 2241.6 | 2265.6 | 2321.8 | 2418.3 | 2518.0 | 2626.6 | 2645.5 | 2675.8 | 2584.9 | 2270.6 |
| 17.5° | 2095.8 | 2112.2 | 2116.0 | 2177.9 | 2266.9 | 2396.2 | 2534.4 | 2567.9 | 2628.5 | 2565.4 | 2228.4 |
| 20° | 2003.7 | 2012.5 | 2020.7 | 2055.4 | 2135.6 | 2271.9 | 2448.0 | 2494.1 | 2584.3 | 2547.7 | 2181.0 |
| 22.5° | 1976.6 | 1982.2 | 1975.3 | 1986.0 | 2042.8 | 2164.0 | 2354.0 | 2415.2 | 2542.0 | 2531.3 | 2142.5 |
| 25° | 1997.4 | 2003.1 | 1986.7 | 1974.0 | 1993.6 | 2076.3 | 2263.1 | 2337.5 | 2507.9 | 2528.1 | 2113.5 |
| 27.5° | 2047.9 | 2058.6 | 2035.9 | 2013.2 | 2001.8 | 2028.9 | 2191.8 | 2278.2 | 2484.6 | 2543.3 | 2100.3 |
| 30° | 2126.8 | 2133.1 | 2116.0 | 2088.3 | 2062.4 | 2035.3 | 2154.5 | 2237.2 | 2478.3 | 2578.6 | 2099.0 |
| 32.5° | 2212.6 | 2225.8 | 2216.4 | 2198.1 | 2164.6 | 2100.3 | 2165.3 | 2238.5 | 2493.4 | 2629.7 | 2114.8 |
| 35° | 2318.6 | 2333.8 | 2342.6 | 2338.8 | 2295.9 | 2215.7 | 2233.4 | 2295.3 | 2533.8 | 2723.8 | 2157.7 |
| 37.5° | 2422.7 | 2436.0 | 2485.8 | 2502.9 | 2465.0 | 2389.3 | 2365.9 | 2407.0 | 2622.8 | 2846.8 | 2235.3 |
| 40° | 2542.0 | 2559.7 | 2629.7 | 2694.7 | 2676.4 | 2596.9 | 2554.0 | 2588.1 | 2759.1 | 3032.4 | 2382.3 |
| 42.5° | 2656.2 | 2687.8 | 2794.4 | 2909.3 | 2926.3 | 2837.4 | 2809.0 | 2820.3 | 2961.1 | 3299.3 | 2587.5 |
| 45° | 2818.4 | 2848.1 | 2985.7 | 3141.5 | 3221.7 | 3152.3 | 3123.2 | 3121.4 | 3238.1 | 3674.8 | 2920.0 |
| 47.5° | 3052.6 | 3079.1 | 3241.3 | 3395.2 | 3537.9 | 3547.3 | 3492.4 | 3511.4 | 3586.5 | 4114.0 | 3327.7 |
| 50° | 3339.7 | 3402.2 | 3508.8 | 3669.1 | 3859.7 | 4013.7 | 4030.7 | 4005.5 | 4069.9 | 4622.7 | 3817.4 |
| 52.5° | 3756.9 | 3780.8 | 3878.7 | 4010.6 | 4234.0 | 4495.2 | 4697.8 | 4663.1 | 4642.9 | 5107.4 | 4312.2 |
| 55° | 4068.0 | 4100.2 | 4252.3 | 4433.4 | 4760.9 | 5105.5 | 5544.7 | 5556.7 | 5301.8 | 5573.1 | 4796.3 |
| 57.5° | 3973.9 | 4023.2 | 4253.5 | 4617.7 | 5337.7 | 5967.5 | 6294.5 | 6302.7 | 5911.4 | 6025.6 | 5342.8 |
| 60° | 3491.2 | 3514.5 | 3844.6 | 4330.5 | 5386.9 | 6901.6 | 7357.8 | 7291.6 | 6531.7 | 6531.7 | 5825.6 |
| 62.5° | 2475.7 | 2512.4 | 2779.9 | 3495.0 | 4865.0 | 7225.9 | 8631.4 | 8494.4 | 7386.2 | 7015.8 | 6113.3 |
| 65° | 1582.1 | 1546.8 | 1724.1 | 2206.3 | 3624.3 | 6746.9 | 9740.2 | 9748.4 | 8190.2 | 7209.5 | 5956.2 |
| 67° | 1146.1 | 1132.2 | 1183.3 | 1508.3 | 2457.4 | 5671.6 | 9763.5 | 10195.8 | 8652.2 | 7087.1 | 5453.8 |
| 67.5° | 1048.2 | 1059.0 | 1096.2 | 1360.6 | 2232.8 | 5161.0 | 9657.5 | 10169.3 | 8756.3 | 7013.3 | 5272.1 |
| 70° | 794.5 | 776.2 | 816.6 | 962.4 | 1338.5 | 3255.8 | 8307.6 | 9326.8 | 8626.9 | 6280.6 | 4212.5 |
| 72.5° | 584.4 | 582.5 | 638.7 | 787.0 | 1030.6 | 1734.2 | 6236.4 | 7478.4 | 7048.0 | 4782.4 | 2652.5 |
| 75° | 394.4 | 412.1 | 501.7 | 657.6 | 934.0 | 1124.6 | 4251.6 | 5425.4 | 4892.8 | 2715.6 | 1084.2 |
| 77.5° | 224.7 | 225.9 | 323.1 | 528.2 | 838.7 | 905.0 | 2519.3 | 3456.5 | 2590.0 | 903.1 | 321.9 |
| 80° | 97.2 | 106.7 | 160.3 | 383.7 | 695.5 | 801.5 | 1444.6 | 1899.6 | 1047.6 | 191.2 | 104.1 |
| 82.5° | 36.0 | 42.3 | 70.7 | 236.0 | 507.4 | 660.1 | 872.8 | 906.9 | 355.3 | 67.5 | 65.0 |
| 85° | 0.0 | 1.3 | 25.9 | 110.4 | 264.4 | 294.7 | 583.1 | 537.7 | 157.1 | 32.2 | 42.3 |
| 87.5° | 0.0 | 0.0 | 0.0 | 11.4 | 34.7 | 109.8 | 181.1 | 201.9 | 37.9 | 11.4 | 10.1 |
| 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° | 2503.5 | 2503.5 | 2503.5 | 2503.5 | 2503.5 | 2503.5 | 2503.5 | 2503.5 | 2503.5 | 2503.5 | 2503.5 |
| 2.5° | 2484.6 | 2443.6 | 2340.7 | 2237.8 | 2161.5 | 2097.7 | 2001.8 | 1949.4 | 1921.7 | 1880.6 | 1883.2 |
| 5° | 2422.1 | 2338.8 | 2157.7 | 1970.3 | 1818.8 | 1671.1 | 1494.4 | 1423.1 | 1363.1 | 1329.1 | 1306.3 |
| 7.5° | 2329.3 | 2206.3 | 1938.1 | 1688.2 | 1455.3 | 1197.2 | 1003.4 | 874.1 | 787.0 | 754.8 | 723.9 |
| 10° | 2227.7 | 2064.3 | 1715.3 | 1368.8 | 1045.7 | 779.4 | 615.3 | 496.7 | 454.4 | 415.3 | 419.0 |
| 12.5° | 2133.7 | 1934.9 | 1510.8 | 1080.4 | 732.7 | 495.4 | 386.2 | 337.6 | 323.7 | 319.3 | 319.3 |
| 15° | 2056.7 | 1811.2 | 1291.2 | 812.2 | 502.3 | 355.9 | 309.2 | 296.0 | 290.9 | 289.7 | 289.7 |
| 17.5° | 1974.7 | 1693.8 | 1093.0 | 600.2 | 365.4 | 297.9 | 282.1 | 273.3 | 271.4 | 270.1 | 270.1 |
| 20° | 1901.5 | 1575.8 | 905.0 | 446.8 | 295.3 | 268.2 | 258.1 | 252.4 | 250.5 | 249.3 | 249.9 |
| 22.5° | 1832.0 | 1471.1 | 728.3 | 337.6 | 260.0 | 244.2 | 234.1 | 228.5 | 224.7 | 221.5 | 222.1 |
| 25° | 1770.2 | 1370.1 | 585.6 | 276.4 | 234.1 | 220.2 | 210.2 | 201.9 | 193.7 | 190.0 | 189.3 |
| 27.5° | 1726.7 | 1281.7 | 456.3 | 236.7 | 210.8 | 195.6 | 183.0 | 172.9 | 162.2 | 156.5 | 155.2 |
| 30° | 1690.7 | 1192.1 | 361.0 | 208.9 | 187.4 | 172.9 | 157.1 | 142.6 | 131.3 | 125.6 | 123.1 |
| 32.5° | 1667.3 | 1106.9 | 284.6 | 186.2 | 167.9 | 150.2 | 132.5 | 118.0 | 105.4 | 99.7 | 98.4 |
| 35° | 1663.5 | 1035.6 | 232.9 | 167.2 | 150.2 | 131.3 | 113.0 | 97.2 | 86.5 | 80.8 | 79.5 |
| 37.5° | 1690.7 | 980.7 | 195.0 | 152.1 | 135.7 | 114.9 | 94.7 | 80.1 | 70.7 | 66.3 | 65.6 |
| 40° | 1763.3 | 946.0 | 169.1 | 139.5 | 122.4 | 99.7 | 80.8 | 68.2 | 58.7 | 54.3 | 54.3 |
| 42.5° | 1901.5 | 947.3 | 152.1 | 127.5 | 109.2 | 85.2 | 68.8 | 56.8 | 48.6 | 44.8 | 43.5 |
| 45° | 2117.3 | 990.2 | 137.6 | 115.5 | 96.6 | 73.8 | 58.7 | 46.7 | 38.5 | 35.3 | 35.3 |
| 47.5° | 2406.3 | 1075.4 | 125.0 | 103.5 | 85.2 | 63.1 | 49.9 | 37.9 | 30.9 | 27.8 | 27.8 |
| 50° | 2784.4 | 1212.3 | 114.2 | 93.4 | 75.7 | 54.3 | 40.4 | 30.9 | 24.0 | 21.5 | 20.8 |
| 52.5° | 3179.4 | 1381.4 | 101.6 | 84.6 | 65.0 | 46.1 | 32.8 | 24.0 | 18.3 | 16.4 | 15.8 |
| 55° | 3615.5 | 1546.8 | 89.6 | 75.7 | 53.0 | 38.5 | 25.9 | 18.9 | 13.3 | 11.4 | 11.4 |
| 57.5° | 4055.4 | 1709.0 | 75.1 | 63.1 | 41.7 | 28.4 | 20.2 | 13.9 | 8.8 | 6.9 | 6.9 |
| 60° | 4427.7 | 1761.4 | 63.7 | 51.1 | 31.6 | 20.2 | 14.5 | 8.8 | 5.0 | 3.2 | 3.2 |
| 62.5° | 4478.8 | 1584.7 | 53.6 | 39.1 | 22.7 | 13.9 | 7.6 | 5.0 | 1.9 | 1.3 | 1.3 |
| 65° | 4201.1 | 1287.4 | 44.8 | 29.7 | 15.1 | 6.9 | 3.2 | 1.9 | 0.6 | 0.0 | 0.0 |
| 67° | 3764.4 | 1043.8 | 36.6 | 22.1 | 10.7 | 4.4 | 1.9 | 0.6 | 0.0 | 0.0 | 0.0 |
| 67.5° | 3652.7 | 995.2 | 35.3 | 20.8 | 9.5 | 3.8 | 1.3 | 0.6 | 0.0 | 0.0 | 0.0 |
| 70° | 2866.4 | 745.3 | 25.2 | 12.6 | 5.7 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 1781.6 | 421.6 | 18.3 | 7.6 | 3.8 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 673.4 | 147.7 | 12.6 | 5.0 | 2.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 209.5 | 56.2 | 7.6 | 3.8 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 70.7 | 21.5 | 5.0 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 43.5 | 8.8 | 3.2 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 27.1 | 3.8 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 5.0 | 1.3 | 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)