

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: P452346

Luminaire Tested: **GALN-SA3B-740-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452346
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-740-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 800mA 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: 13973 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

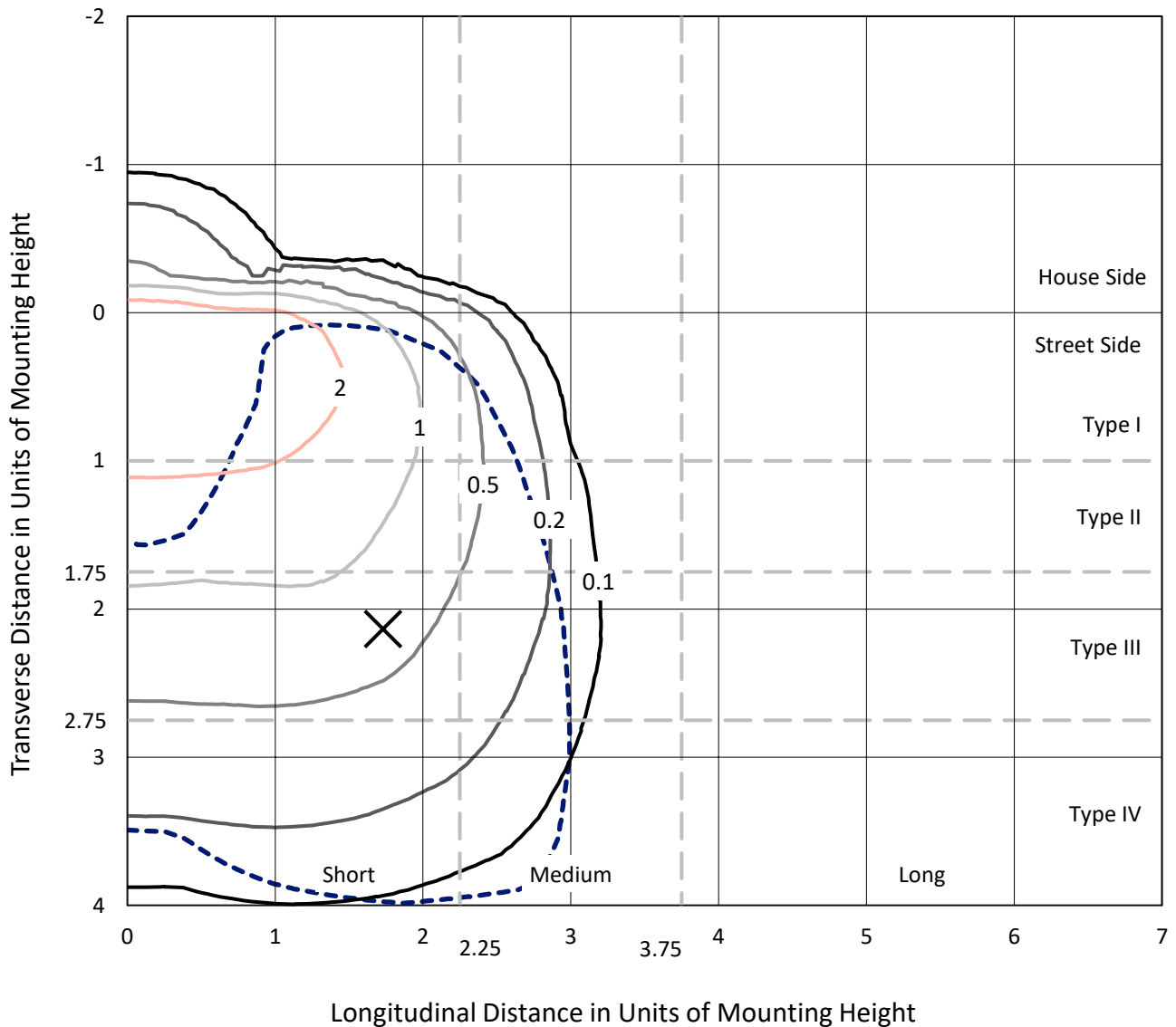
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

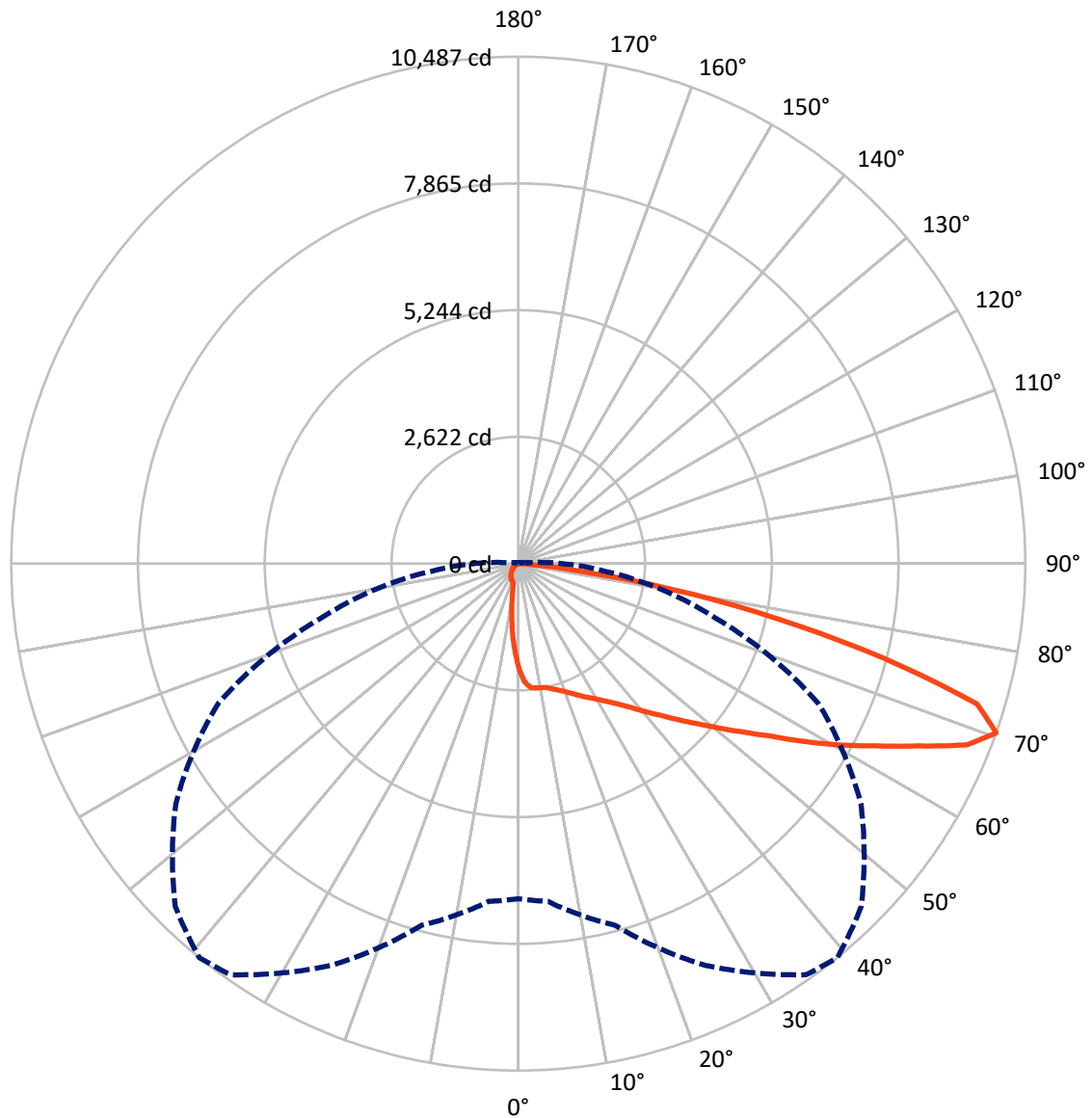
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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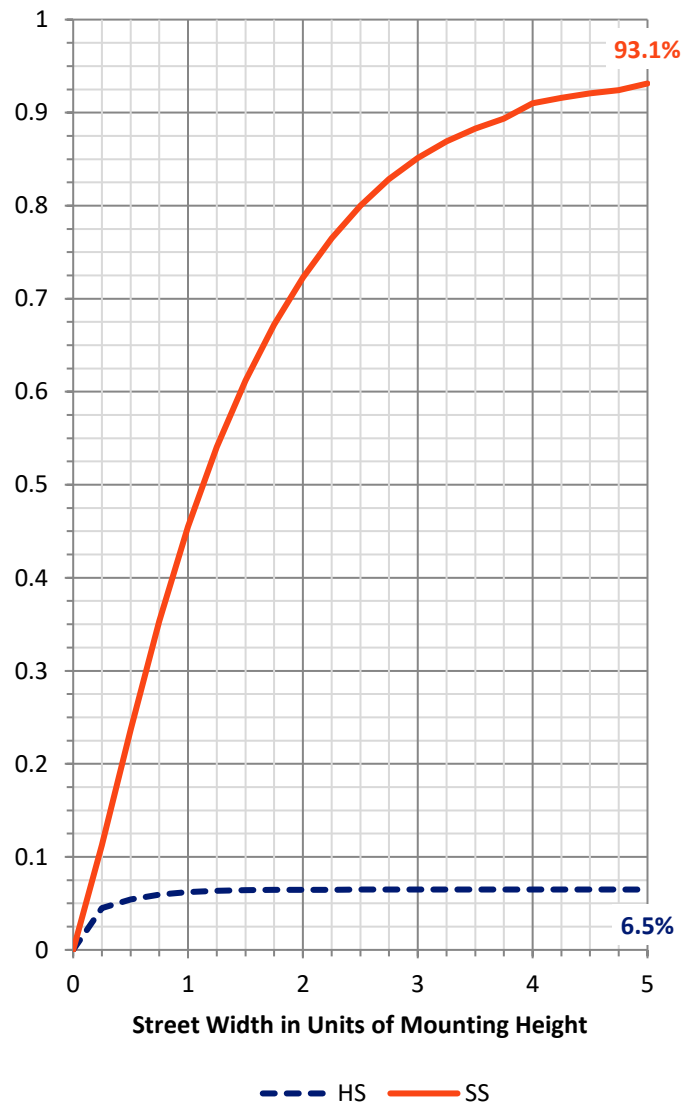
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 911.1 | 0.0 | 911.1 |
| | % Fixture | 6.5 | 0.0 | 6.5 |
| Street Side | Lumens | 13061.9 | 0.0 | 13061.9 |
| | % Fixture | 93.5 | 0.0 | 93.5 |
| Total | Lumens | 13973.0 | 0.0 | 13973.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 186.0 | 1.3 |
| 10°-20° | 483.3 | 3.5 |
| 20°-30° | 809.6 | 5.8 |
| 30°-40° | 1255.6 | 9.0 |
| 40°-50° | 1989.7 | 14.2 |
| 50°-60° | 2916.6 | 20.9 |
| 60°-70° | 3738.4 | 26.8 |
| 70°-80° | 2349.1 | 16.8 |
| 80°-90° | 244.7 | 1.8 |
| 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° | 13973.0 | 100.0 |
| 0°-180° | 13973.0 | 100.0 |



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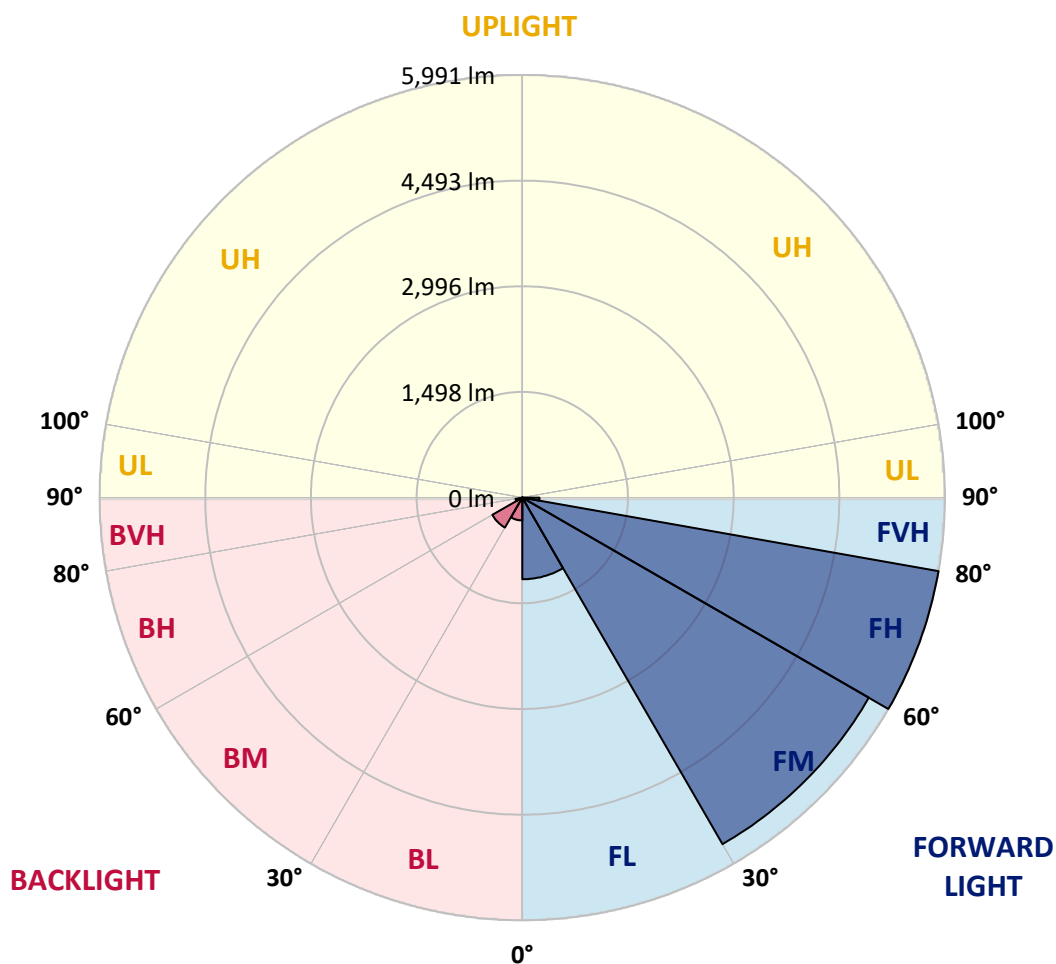
CATALOG NUMBER: GALN-SA3B-740-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1156.2 | 8.3 | | | |
| FM (30°-60°) | 5671.6 | 40.6 | | | |
| FH (60°-80°) | 5991.2 | 42.9 | | | G3/7500 |
| FVH (80°-90°) | 242.9 | 1.7 | | | G3/500 |
| BL (0°-30°) | 322.6 | 2.3 | B1/500 | | |
| BM (30°-60°) | 490.3 | 3.5 | B1/1000 | | |
| BH (60°-80°) | 96.4 | 0.7 | B0/110 | | G0/110 |
| BVH (80°-90°) | 1.8 | 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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 39° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|---------|--------|--------|--------|--------|
| 0° | 2180.3 | 2180.3 | 2180.3 | 2180.3 | 2180.3 | 2180.3 | 2180.3 | 2180.3 | 2180.3 | 2180.3 | 2180.3 |
| 2.5° | 2519.2 | 2510.8 | 2499.5 | 2486.4 | 2448.8 | 2442.2 | 2419.7 | 2371.8 | 2314.5 | 2267.6 | 2202.8 |
| 5° | 2638.5 | 2643.2 | 2634.7 | 2611.3 | 2584.0 | 2568.1 | 2539.9 | 2465.7 | 2391.5 | 2296.7 | 2190.6 |
| 7.5° | 2665.7 | 2675.1 | 2664.8 | 2642.2 | 2615.9 | 2599.0 | 2576.5 | 2512.7 | 2426.3 | 2318.3 | 2172.8 |
| 10° | 2662.9 | 2674.2 | 2667.6 | 2646.9 | 2625.3 | 2609.4 | 2585.0 | 2534.3 | 2464.8 | 2351.2 | 2178.4 |
| 12.5° | 2658.2 | 2673.2 | 2672.3 | 2662.0 | 2644.1 | 2631.9 | 2616.9 | 2571.8 | 2507.0 | 2399.0 | 2209.4 |
| 15° | 2645.1 | 2663.8 | 2680.7 | 2689.2 | 2690.1 | 2690.1 | 2671.3 | 2623.5 | 2561.5 | 2462.0 | 2249.8 |
| 17.5° | 2650.7 | 2672.3 | 2714.5 | 2738.9 | 2755.9 | 2754.0 | 2734.3 | 2682.6 | 2614.1 | 2526.7 | 2292.0 |
| 20° | 2685.4 | 2714.5 | 2773.7 | 2822.5 | 2839.4 | 2833.8 | 2807.5 | 2747.4 | 2669.5 | 2582.1 | 2333.3 |
| 22.5° | 2770.9 | 2797.2 | 2871.3 | 2928.6 | 2940.8 | 2925.8 | 2888.2 | 2806.6 | 2736.1 | 2642.2 | 2383.1 |
| 25° | 2898.6 | 2929.6 | 2998.1 | 3041.3 | 3041.3 | 3032.8 | 2980.3 | 2884.5 | 2811.2 | 2725.8 | 2447.9 |
| 27.5° | 3053.5 | 3079.8 | 3147.4 | 3185.9 | 3163.4 | 3138.9 | 3086.4 | 2970.9 | 2900.5 | 2831.0 | 2525.8 |
| 30° | 3210.3 | 3227.2 | 3298.6 | 3315.5 | 3292.0 | 3261.0 | 3204.7 | 3089.2 | 3027.2 | 2973.7 | 2638.5 |
| 32.5° | 3358.7 | 3395.3 | 3454.4 | 3450.7 | 3418.8 | 3403.7 | 3352.1 | 3229.1 | 3194.3 | 3188.7 | 2796.2 |
| 35° | 3507.0 | 3535.2 | 3587.8 | 3600.9 | 3572.7 | 3569.9 | 3532.4 | 3441.3 | 3442.2 | 3478.9 | 3042.2 |
| 37.5° | 3634.7 | 3660.1 | 3722.0 | 3751.1 | 3756.8 | 3770.9 | 3755.8 | 3695.8 | 3781.2 | 3881.7 | 3368.1 |
| 40° | 3741.8 | 3777.4 | 3856.3 | 3907.0 | 3965.2 | 4016.9 | 4019.7 | 4032.8 | 4204.7 | 4377.4 | 3793.4 |
| 42.5° | 3825.3 | 3875.1 | 3989.6 | 4083.5 | 4216.9 | 4282.6 | 4335.2 | 4407.5 | 4696.7 | 4954.9 | 4294.8 |
| 45° | 3934.2 | 3991.5 | 4134.2 | 4281.7 | 4490.1 | 4598.1 | 4671.3 | 4864.8 | 5275.1 | 5627.2 | 4809.4 |
| 47.5° | 4114.5 | 4144.6 | 4290.1 | 4505.1 | 4779.3 | 4933.3 | 5076.0 | 5369.0 | 5895.7 | 6211.2 | 5237.5 |
| 50° | 4346.5 | 4366.2 | 4476.0 | 4774.6 | 5129.5 | 5332.4 | 5592.5 | 5937.0 | 6539.9 | 6695.7 | 5479.8 |
| 52.5° | 4602.8 | 4609.4 | 4692.0 | 5071.3 | 5522.0 | 5777.4 | 6068.5 | 6493.9 | 7064.7 | 7041.3 | 5640.3 |
| 55° | 4900.4 | 4891.0 | 4961.5 | 5393.4 | 5986.8 | 6278.8 | 6617.8 | 7063.8 | 7520.1 | 7286.3 | 5732.4 |
| 57.5° | 5241.3 | 5215.9 | 5284.5 | 5820.6 | 6582.1 | 6931.4 | 7276.0 | 7555.8 | 7873.2 | 7492.0 | 5776.5 |
| 60° | 5598.1 | 5547.4 | 5629.1 | 6300.4 | 7283.5 | 7615.0 | 7901.4 | 7976.5 | 8245.0 | 7655.3 | 5700.4 |
| 62.5° | 5882.6 | 5883.5 | 6035.6 | 6811.2 | 8004.6 | 8294.8 | 8446.9 | 8514.5 | 8565.2 | 7619.7 | 5300.4 |
| 65° | 6326.7 | 6341.7 | 6584.9 | 7520.1 | 8839.4 | 9091.0 | 9195.2 | 8975.5 | 8579.3 | 7176.5 | 4699.5 |
| 67.5° | 6784.9 | 6832.8 | 7277.9 | 8496.7 | 9803.7 | 10006.5 | 9872.2 | 9064.7 | 8196.2 | 6165.2 | 3563.4 |
| 70° | 6934.2 | 7013.1 | 7746.4 | 9169.0 | 10382.1 | 10487.3 | 10032.8 | 8648.8 | 6851.6 | 4122.0 | 1793.4 |
| 72.5° | 6353.9 | 6481.6 | 7476.9 | 8923.9 | 10013.1 | 9922.0 | 8976.5 | 7253.5 | 4355.8 | 1565.2 | 547.4 |
| 75° | 4480.7 | 4537.1 | 6214.0 | 7402.8 | 8053.5 | 7795.3 | 6828.1 | 4676.0 | 1791.5 | 439.4 | 187.8 |
| 77.5° | 2313.6 | 2286.4 | 3695.8 | 4911.7 | 5743.6 | 5476.0 | 4471.3 | 2420.6 | 678.9 | 183.1 | 116.4 |
| 80° | 1196.2 | 1216.0 | 1599.1 | 2573.7 | 3506.1 | 3226.3 | 2384.0 | 1122.1 | 361.5 | 101.4 | 89.2 |
| 82.5° | 670.4 | 629.1 | 919.2 | 1123.9 | 1639.4 | 1285.4 | 914.5 | 794.4 | 157.7 | 61.0 | 84.5 |
| 85° | 122.1 | 127.7 | 504.2 | 607.5 | 569.0 | 361.5 | 294.8 | 530.5 | 46.0 | 33.8 | 59.2 |
| 87.5° | 1.9 | 1.9 | 97.7 | 174.6 | 110.8 | 50.7 | 93.0 | 76.1 | 9.4 | 13.1 | 10.3 |
| 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° | 2180.3 | 2180.3 | 2180.3 | 2180.3 | 2180.3 | 2180.3 | 2180.3 | 2180.3 | 2180.3 | 2180.3 | 2180.3 |
| 2.5° | 2169.9 | 2134.3 | 2067.6 | 2001.9 | 1918.3 | 1849.8 | 1803.7 | 1755.9 | 1707.0 | 1710.8 | 1722.1 |
| 5° | 2132.4 | 2070.4 | 1939.0 | 1800.0 | 1666.7 | 1546.5 | 1428.2 | 1322.1 | 1278.9 | 1239.4 | 1241.3 |
| 7.5° | 2094.8 | 2007.5 | 1815.0 | 1597.2 | 1395.3 | 1190.6 | 1042.2 | 920.2 | 855.4 | 806.6 | 792.5 |
| 10° | 2077.9 | 1962.4 | 1701.4 | 1401.9 | 1115.5 | 892.0 | 701.4 | 601.9 | 524.9 | 500.5 | 507.0 |
| 12.5° | 2085.4 | 1939.9 | 1599.1 | 1225.3 | 884.5 | 621.6 | 488.3 | 437.6 | 420.7 | 417.8 | 416.0 |
| 15° | 2099.5 | 1923.9 | 1498.6 | 1030.0 | 649.8 | 462.0 | 410.3 | 400.9 | 399.1 | 397.2 | 398.1 |
| 17.5° | 2118.3 | 1909.8 | 1391.5 | 846.9 | 498.6 | 403.8 | 388.7 | 384.0 | 383.1 | 383.1 | 383.1 |
| 20° | 2137.1 | 1893.9 | 1272.3 | 683.6 | 416.0 | 381.2 | 371.8 | 369.0 | 368.1 | 368.1 | 367.1 |
| 22.5° | 2158.7 | 1879.8 | 1151.2 | 537.1 | 383.1 | 365.3 | 356.8 | 354.9 | 354.0 | 353.0 | 353.0 |
| 25° | 2189.7 | 1862.0 | 1022.5 | 439.4 | 362.4 | 350.2 | 341.8 | 339.9 | 339.0 | 335.2 | 336.1 |
| 27.5° | 2231.0 | 1848.8 | 890.1 | 379.3 | 343.7 | 331.5 | 325.8 | 323.0 | 321.1 | 318.3 | 319.2 |
| 30° | 2287.3 | 1837.5 | 749.3 | 346.5 | 322.1 | 311.7 | 306.1 | 304.2 | 302.3 | 299.5 | 299.5 |
| 32.5° | 2385.0 | 1842.2 | 600.9 | 320.2 | 302.3 | 290.1 | 284.5 | 282.6 | 280.7 | 277.9 | 277.9 |
| 35° | 2531.4 | 1869.5 | 480.7 | 297.7 | 278.9 | 266.7 | 261.0 | 261.0 | 258.2 | 254.5 | 253.5 |
| 37.5° | 2770.9 | 1939.0 | 385.9 | 276.1 | 256.3 | 245.1 | 238.5 | 236.6 | 233.8 | 228.2 | 227.2 |
| 40° | 3053.5 | 2046.9 | 324.9 | 254.5 | 235.7 | 224.4 | 218.8 | 213.1 | 205.6 | 200.0 | 199.1 |
| 42.5° | 3408.4 | 2157.7 | 281.7 | 232.9 | 216.0 | 205.6 | 199.1 | 189.7 | 178.4 | 170.9 | 170.0 |
| 45° | 3778.4 | 2259.1 | 252.6 | 213.1 | 197.2 | 188.7 | 181.2 | 166.2 | 152.1 | 142.7 | 141.8 |
| 47.5° | 4054.4 | 2277.9 | 229.1 | 194.4 | 181.2 | 172.8 | 162.4 | 143.7 | 124.9 | 116.4 | 113.6 |
| 50° | 4184.9 | 2186.8 | 204.7 | 175.6 | 165.3 | 155.9 | 142.7 | 121.1 | 100.5 | 90.1 | 88.3 |
| 52.5° | 4231.0 | 2029.1 | 185.0 | 158.7 | 149.3 | 138.0 | 122.1 | 97.7 | 78.9 | 68.5 | 67.6 |
| 55° | 4212.2 | 1830.0 | 167.1 | 142.7 | 130.5 | 117.4 | 101.4 | 77.9 | 58.2 | 49.8 | 47.9 |
| 57.5° | 4113.6 | 1576.5 | 149.3 | 126.8 | 111.7 | 98.6 | 80.8 | 58.2 | 39.4 | 31.9 | 31.0 |
| 60° | 3847.9 | 1231.0 | 131.5 | 108.9 | 94.8 | 80.8 | 63.8 | 41.3 | 24.4 | 17.8 | 17.8 |
| 62.5° | 3399.0 | 913.6 | 114.6 | 91.1 | 79.8 | 64.8 | 45.1 | 26.3 | 13.1 | 9.4 | 8.5 |
| 65° | 2840.4 | 674.2 | 95.8 | 77.0 | 66.7 | 50.7 | 31.9 | 16.0 | 6.6 | 2.8 | 1.9 |
| 67.5° | 1982.1 | 416.0 | 79.8 | 62.9 | 54.5 | 36.6 | 19.7 | 6.6 | 2.8 | 0.0 | 0.0 |
| 70° | 900.5 | 198.1 | 61.0 | 47.9 | 41.3 | 26.3 | 10.3 | 3.8 | 1.9 | 0.0 | 0.0 |
| 72.5° | 279.8 | 104.2 | 43.2 | 34.7 | 28.2 | 16.9 | 5.6 | 2.8 | 1.9 | 0.0 | 0.0 |
| 75° | 129.6 | 66.7 | 27.2 | 18.8 | 16.0 | 8.5 | 3.8 | 1.9 | 0.9 | 0.0 | 0.0 |
| 77.5° | 96.7 | 51.6 | 16.0 | 10.3 | 8.5 | 5.6 | 2.8 | 1.9 | 0.9 | 0.0 | 0.0 |
| 80° | 84.5 | 26.3 | 9.4 | 6.6 | 4.7 | 3.8 | 1.9 | 0.9 | 0.0 | 0.0 | 0.0 |
| 82.5° | 76.1 | 13.1 | 5.6 | 3.8 | 2.8 | 1.9 | 0.9 | 0.9 | 0.0 | 0.0 | 0.0 |
| 85° | 41.3 | 7.5 | 3.8 | 2.8 | 1.9 | 0.9 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 7.5 | 3.8 | 2.8 | 1.9 | 1.9 | 0.9 | 0.9 | 0.9 | 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)