

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: P527271

Luminaire Tested: **GALN-SA2B-735-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527271
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-735-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6234 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

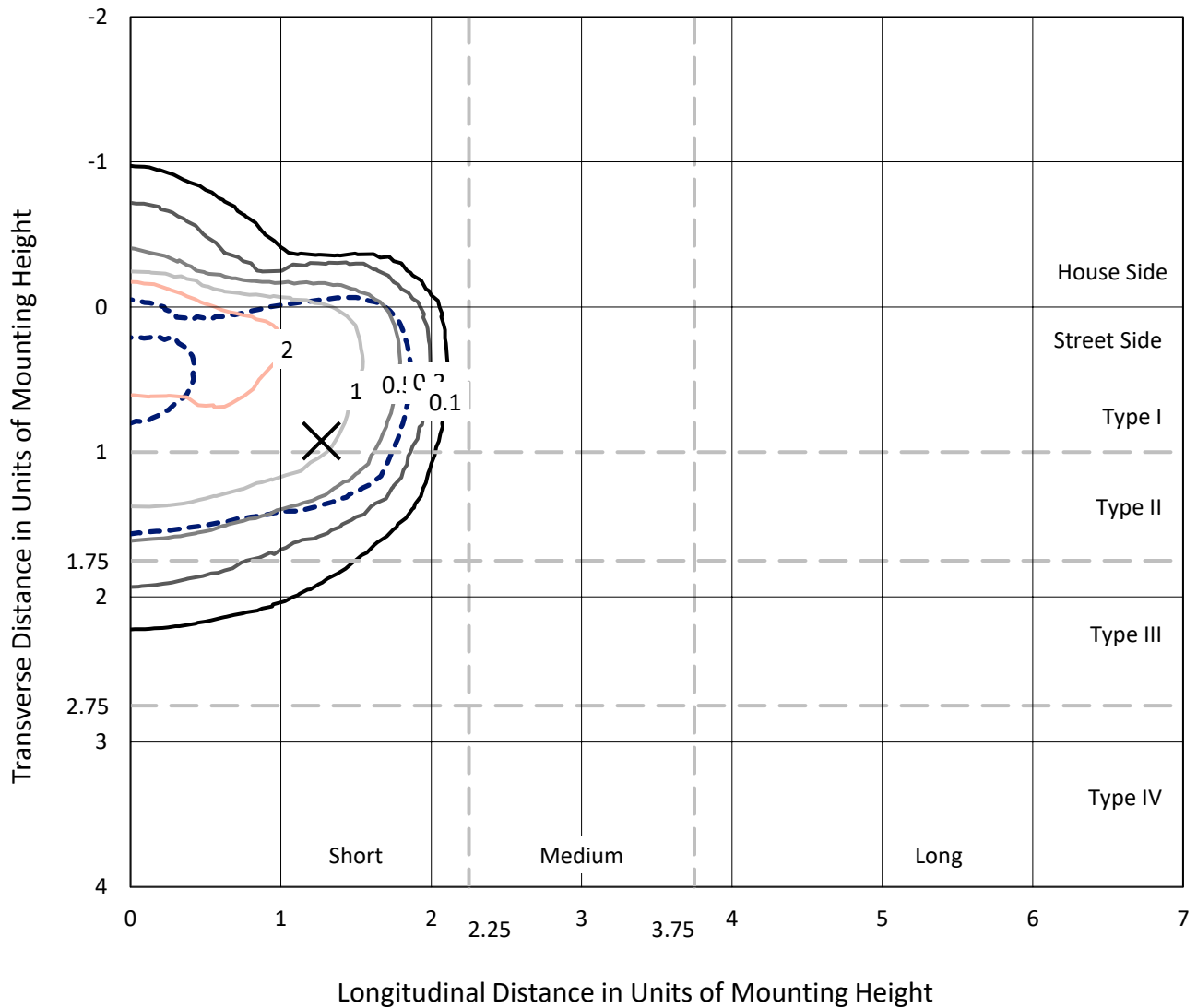
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

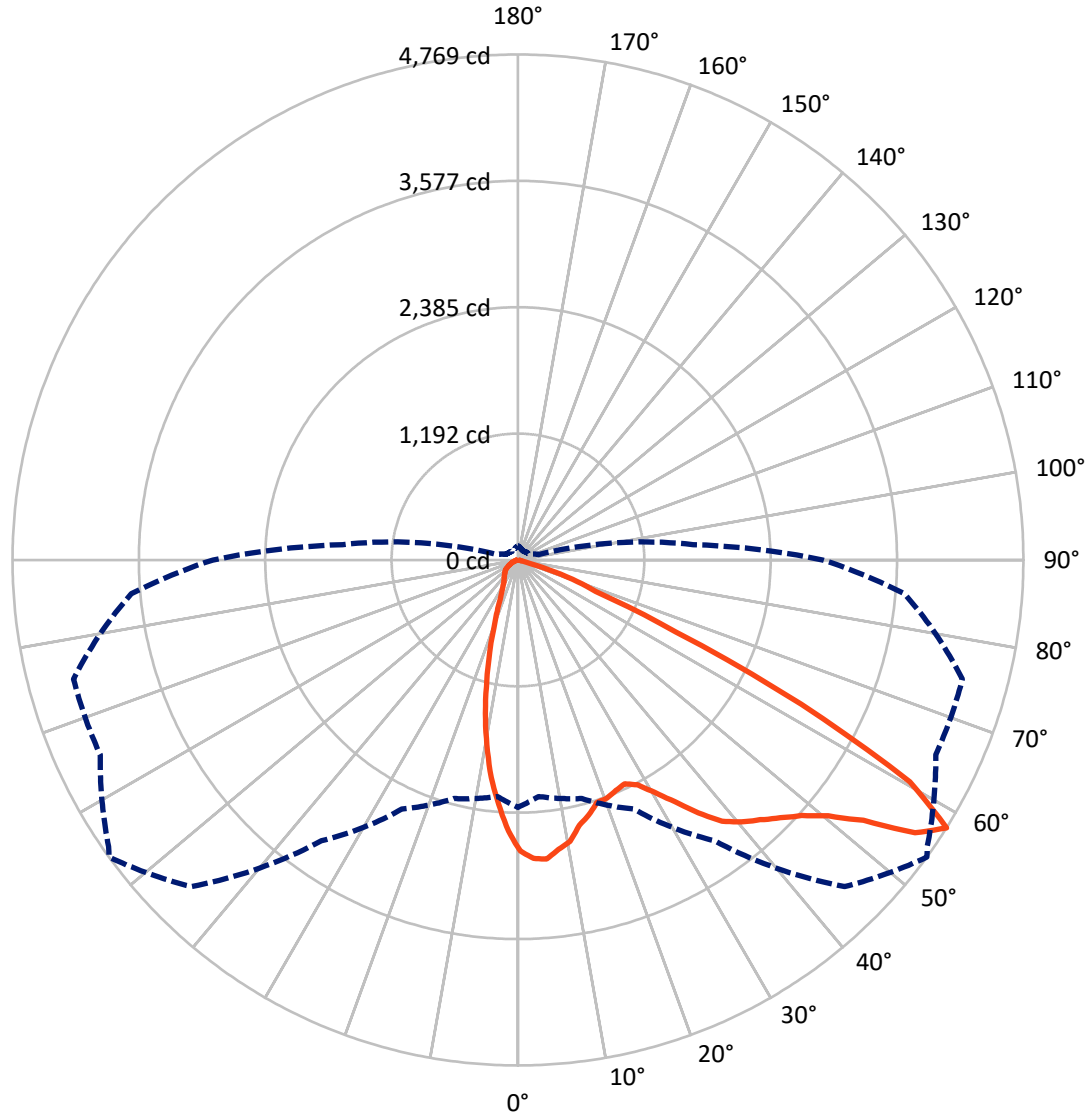
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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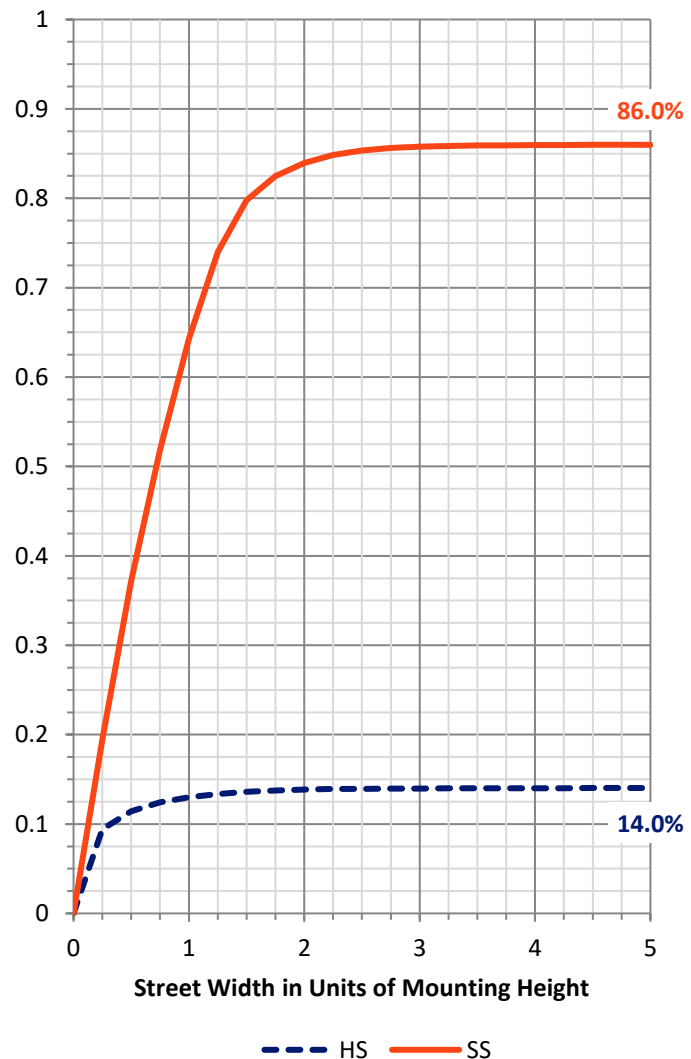
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 881.0 | 0.0 | 881.0 |
| | % Fixture | 14.1 | 0.0 | 14.1 |
| Street Side | Lumens | 5353.0 | 0.0 | 5353.0 |
| | % Fixture | 85.9 | 0.0 | 85.9 |
| Total | Lumens | 6234.0 | 0.0 | 6234.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 229.8 | 3.7 |
| 10°-20° | 490.6 | 7.9 |
| 20°-30° | 650.2 | 10.4 |
| 30°-40° | 944.9 | 15.2 |
| 40°-50° | 1401.1 | 22.5 |
| 50°-60° | 1752.1 | 28.1 |
| 60°-70° | 691.1 | 11.1 |
| 70°-80° | 68.8 | 1.1 |
| 80°-90° | 5.4 | 0.1 |
| 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° | 6234.0 | 100.0 |
| 0°-180° | 6234.0 | 100.0 |

Coefficient of Utilization



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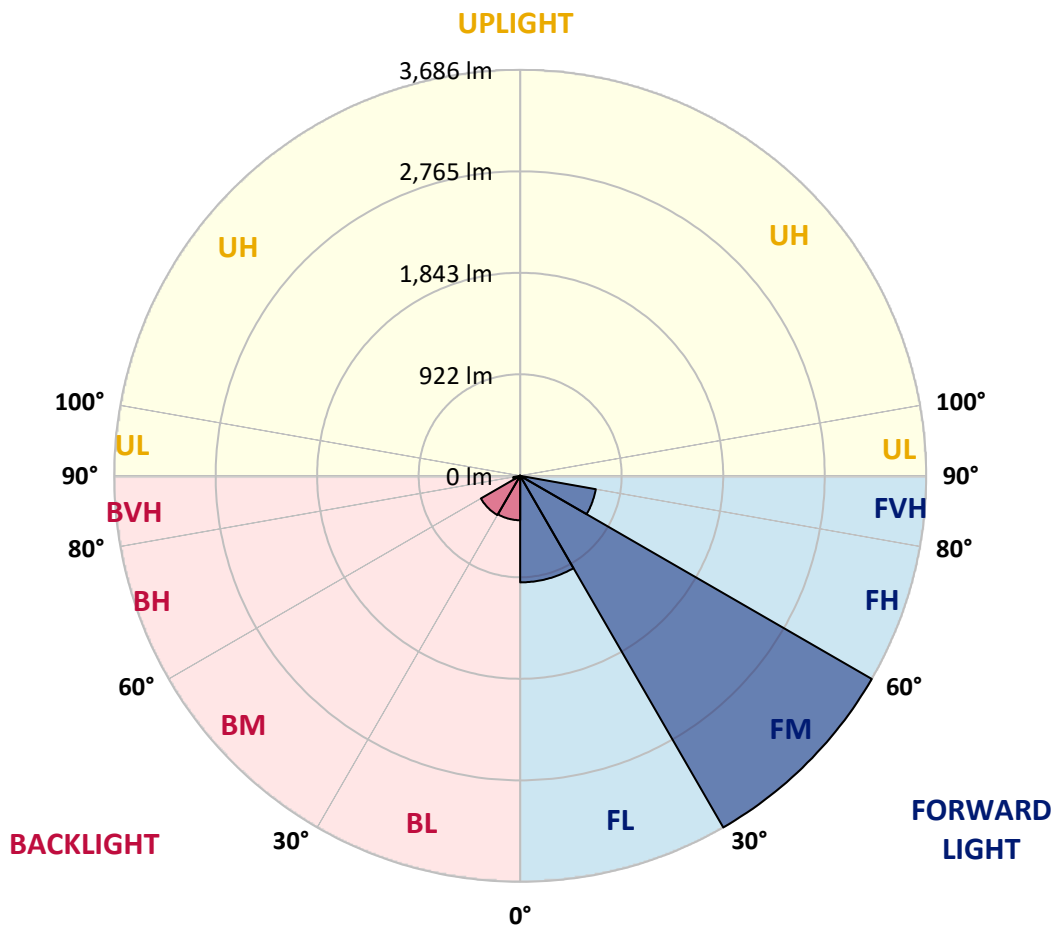
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 967.7 | 15.5 | | | |
| FM (30°-60°) | 3686.2 | 59.1 | | | |
| FH (60°-80°) | 696.7 | 11.2 | | | G1/1800 |
| FVH (80°-90°) | 2.4 | 0.0 | | | G0/10 |
| BL (0°-30°) | 402.9 | 6.5 | B1/500 | | |
| BM (30°-60°) | 412.0 | 6.6 | B1/1000 | | |
| BH (60°-80°) | 63.2 | 1.0 | B0/110 | | G0/110 |
| BVH (80°-90°) | 2.9 | 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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2746.2 | 2746.2 | 2746.2 | 2746.2 | 2746.2 | 2746.2 | 2746.2 | 2746.2 | 2746.2 | 2746.2 | 2746.2 |
| 2.5° | 2906.1 | 2876.0 | 2878.3 | 2867.9 | 2854.0 | 2864.4 | 2819.2 | 2829.6 | 2828.5 | 2767.0 | 2726.5 |
| 5° | 2833.1 | 2865.6 | 2831.9 | 2859.8 | 2833.1 | 2862.1 | 2834.3 | 2813.4 | 2779.8 | 2734.6 | 2659.2 |
| 7.5° | 2709.1 | 2677.8 | 2687.0 | 2721.8 | 2727.6 | 2792.5 | 2757.8 | 2784.4 | 2770.5 | 2681.2 | 2578.1 |
| 10° | 2459.8 | 2452.9 | 2499.2 | 2545.6 | 2602.4 | 2672.0 | 2698.6 | 2683.6 | 2673.1 | 2639.5 | 2501.6 |
| 12.5° | 2268.6 | 2288.3 | 2287.1 | 2363.6 | 2459.8 | 2499.2 | 2568.8 | 2566.5 | 2624.4 | 2561.8 | 2429.7 |
| 15° | 2086.6 | 2097.0 | 2145.7 | 2193.2 | 2299.9 | 2412.3 | 2498.1 | 2509.7 | 2579.2 | 2535.2 | 2374.1 |
| 17.5° | 1975.3 | 1960.2 | 1998.5 | 2055.3 | 2164.2 | 2311.5 | 2406.5 | 2434.3 | 2529.4 | 2520.1 | 2310.3 |
| 20° | 1865.2 | 1865.2 | 1896.5 | 1963.7 | 2063.4 | 2229.2 | 2398.4 | 2390.3 | 2529.4 | 2502.7 | 2241.9 |
| 22.5° | 1828.1 | 1846.6 | 1854.7 | 1905.7 | 2024.0 | 2166.6 | 2363.6 | 2378.7 | 2549.1 | 2494.6 | 2211.8 |
| 25° | 1879.1 | 1854.7 | 1857.0 | 1897.6 | 2008.9 | 2136.4 | 2338.1 | 2371.7 | 2585.0 | 2535.2 | 2187.4 |
| 27.5° | 1887.2 | 1911.5 | 1918.5 | 1946.3 | 2020.5 | 2145.7 | 2401.9 | 2470.3 | 2674.3 | 2630.2 | 2194.4 |
| 30° | 1957.9 | 1982.2 | 1981.1 | 2028.6 | 2079.6 | 2221.0 | 2544.5 | 2558.4 | 2858.6 | 2749.6 | 2237.3 |
| 32.5° | 2043.7 | 2069.2 | 2077.3 | 2132.9 | 2173.5 | 2359.0 | 2718.3 | 2754.3 | 3036.0 | 2937.4 | 2349.7 |
| 35° | 2150.3 | 2141.1 | 2178.1 | 2233.8 | 2320.7 | 2560.7 | 2930.5 | 2990.8 | 3227.2 | 3180.9 | 2465.6 |
| 37.5° | 2283.6 | 2272.0 | 2308.0 | 2398.4 | 2516.6 | 2799.5 | 3126.4 | 3165.8 | 3366.3 | 3406.9 | 2680.1 |
| 40° | 2377.5 | 2382.2 | 2491.1 | 2612.9 | 2738.0 | 3026.7 | 3250.4 | 3288.7 | 3463.7 | 3617.9 | 2842.4 |
| 42.5° | 2534.0 | 2563.0 | 2694.0 | 2842.4 | 2973.4 | 3197.1 | 3351.3 | 3388.4 | 3508.9 | 3787.1 | 3061.5 |
| 45° | 2761.2 | 2748.5 | 2893.4 | 3059.1 | 3204.0 | 3374.5 | 3470.7 | 3457.9 | 3535.6 | 3955.2 | 3199.4 |
| 47.5° | 3053.4 | 3055.7 | 3151.9 | 3293.3 | 3444.0 | 3528.6 | 3604.0 | 3558.8 | 3591.2 | 4132.6 | 3383.7 |
| 50° | 3252.7 | 3270.1 | 3347.8 | 3492.7 | 3568.0 | 3697.9 | 3794.1 | 3766.3 | 3755.8 | 4239.2 | 3499.6 |
| 52.5° | 3303.7 | 3355.9 | 3397.6 | 3578.5 | 3754.7 | 3959.9 | 4082.7 | 4141.8 | 3956.4 | 4275.2 | 3646.9 |
| 55° | 2918.9 | 2965.3 | 3112.5 | 3360.5 | 3825.4 | 4374.8 | 4544.1 | 4545.2 | 4218.4 | 4435.1 | 3750.0 |
| 57.5° | 2333.5 | 2239.6 | 2330.0 | 2593.1 | 3234.2 | 4357.5 | 4769.0 | 4714.5 | 4349.3 | 4341.2 | 3660.8 |
| 60° | 1613.6 | 1590.4 | 1596.2 | 1700.6 | 2238.4 | 3466.0 | 4249.7 | 4320.4 | 4005.1 | 3762.8 | 2898.0 |
| 62.5° | 1278.6 | 1258.9 | 1233.4 | 1221.8 | 1389.9 | 2159.6 | 2997.7 | 3097.4 | 2800.6 | 2440.1 | 1717.9 |
| 65° | 1001.6 | 990.0 | 993.4 | 1039.8 | 1038.6 | 1225.3 | 1639.1 | 1598.5 | 1279.8 | 945.9 | 540.2 |
| 67.5° | 675.8 | 693.2 | 707.1 | 847.4 | 919.3 | 853.2 | 791.7 | 768.6 | 416.2 | 175.0 | 119.4 |
| 70° | 380.2 | 382.5 | 397.6 | 529.8 | 697.8 | 661.9 | 546.0 | 546.0 | 207.5 | 63.8 | 68.4 |
| 72.5° | 207.5 | 200.5 | 186.6 | 228.4 | 310.7 | 315.3 | 243.4 | 212.1 | 61.4 | 41.7 | 38.3 |
| 75° | 100.9 | 99.7 | 85.8 | 70.7 | 67.2 | 55.6 | 42.9 | 39.4 | 27.8 | 26.7 | 23.2 |
| 77.5° | 20.9 | 19.7 | 10.4 | 10.4 | 11.6 | 12.8 | 16.2 | 16.2 | 19.7 | 19.7 | 16.2 |
| 80° | 0.0 | 0.0 | 1.2 | 4.6 | 8.1 | 11.6 | 13.9 | 13.9 | 16.2 | 16.2 | 12.8 |
| 82.5° | 0.0 | 0.0 | 1.2 | 3.5 | 7.0 | 10.4 | 12.8 | 13.9 | 16.2 | 17.4 | 13.9 |
| 85° | 0.0 | 0.0 | 0.0 | 2.3 | 5.8 | 8.1 | 7.0 | 7.0 | 5.8 | 4.6 | 2.3 |
| 87.5° | 0.0 | 0.0 | 0.0 | 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 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2746.2 | 2746.2 | 2746.2 | 2746.2 | 2746.2 | 2746.2 | 2746.2 | 2746.2 | 2746.2 | 2746.2 | 2746.2 |
| 2.5° | 2705.6 | 2703.3 | 2649.9 | 2619.8 | 2565.3 | 2517.8 | 2479.5 | 2451.7 | 2451.7 | 2434.3 | 2418.1 |
| 5° | 2629.1 | 2609.4 | 2495.8 | 2422.7 | 2319.6 | 2243.1 | 2190.9 | 2150.3 | 2086.6 | 2104.0 | 2035.6 |
| 7.5° | 2534.0 | 2484.2 | 2333.5 | 2222.2 | 2079.6 | 1970.7 | 1859.4 | 1760.8 | 1665.8 | 1622.9 | 1646.1 |
| 10° | 2432.0 | 2345.1 | 2142.2 | 1966.0 | 1788.7 | 1589.3 | 1459.4 | 1301.8 | 1204.4 | 1198.6 | 1173.1 |
| 12.5° | 2324.2 | 2225.7 | 1978.8 | 1735.3 | 1502.3 | 1262.4 | 1064.2 | 916.9 | 850.9 | 777.8 | 791.7 |
| 15° | 2243.1 | 2097.0 | 1796.8 | 1503.5 | 1194.0 | 951.7 | 752.3 | 638.7 | 576.1 | 558.7 | 552.9 |
| 17.5° | 2155.0 | 1998.5 | 1611.3 | 1256.6 | 936.6 | 685.1 | 541.3 | 486.9 | 462.5 | 462.5 | 459.0 |
| 20° | 2063.4 | 1887.2 | 1427.0 | 1027.1 | 702.5 | 511.2 | 433.5 | 416.2 | 415.0 | 413.8 | 413.8 |
| 22.5° | 2003.1 | 1759.7 | 1260.1 | 816.1 | 529.8 | 409.2 | 376.7 | 369.8 | 374.4 | 388.3 | 388.3 |
| 25° | 1939.4 | 1636.8 | 1075.7 | 629.4 | 410.4 | 351.2 | 332.7 | 337.3 | 348.9 | 361.7 | 357.0 |
| 27.5° | 1874.4 | 1556.8 | 901.9 | 493.8 | 336.2 | 307.2 | 300.2 | 310.7 | 323.4 | 335.0 | 331.5 |
| 30° | 1859.4 | 1471.0 | 737.3 | 374.4 | 288.6 | 267.8 | 272.4 | 281.7 | 294.4 | 299.1 | 303.7 |
| 32.5° | 1882.6 | 1403.8 | 603.9 | 307.2 | 251.5 | 245.8 | 245.8 | 250.4 | 258.5 | 268.9 | 265.5 |
| 35° | 1948.6 | 1365.5 | 477.6 | 266.6 | 230.7 | 224.9 | 223.7 | 228.4 | 233.0 | 236.5 | 233.0 |
| 37.5° | 2049.5 | 1335.4 | 390.7 | 236.5 | 216.8 | 207.5 | 205.2 | 204.0 | 208.7 | 209.8 | 212.1 |
| 40° | 2178.1 | 1351.6 | 331.5 | 217.9 | 202.9 | 192.4 | 185.5 | 185.5 | 185.5 | 189.0 | 190.1 |
| 42.5° | 2317.3 | 1373.7 | 286.3 | 207.5 | 190.1 | 177.4 | 170.4 | 168.1 | 170.4 | 175.0 | 173.9 |
| 45° | 2463.3 | 1416.6 | 257.3 | 191.3 | 178.5 | 162.3 | 153.0 | 150.7 | 156.5 | 165.8 | 164.6 |
| 47.5° | 2600.1 | 1478.0 | 235.3 | 180.8 | 166.9 | 151.9 | 140.3 | 137.9 | 148.4 | 161.1 | 162.3 |
| 50° | 2736.9 | 1584.6 | 227.2 | 172.7 | 158.8 | 141.4 | 131.0 | 128.7 | 140.3 | 156.5 | 160.0 |
| 52.5° | 2894.5 | 1699.4 | 221.4 | 162.3 | 149.5 | 133.3 | 121.7 | 119.4 | 132.1 | 153.0 | 154.2 |
| 55° | 2997.7 | 1796.8 | 216.8 | 143.7 | 132.1 | 120.6 | 111.3 | 110.1 | 124.0 | 142.6 | 147.2 |
| 57.5° | 2877.2 | 1661.1 | 200.5 | 125.2 | 112.4 | 106.6 | 98.5 | 98.5 | 110.1 | 127.5 | 131.0 |
| 60° | 2181.6 | 1093.1 | 142.6 | 100.9 | 95.1 | 91.6 | 88.1 | 88.1 | 97.4 | 110.1 | 111.3 |
| 62.5° | 1277.4 | 588.9 | 91.6 | 81.1 | 81.1 | 77.7 | 71.9 | 71.9 | 81.1 | 88.1 | 89.3 |
| 65° | 379.1 | 189.0 | 74.2 | 69.6 | 68.4 | 62.6 | 56.8 | 55.6 | 62.6 | 66.1 | 64.9 |
| 67.5° | 109.0 | 86.9 | 61.4 | 58.0 | 56.8 | 47.5 | 44.0 | 42.9 | 44.0 | 41.7 | 40.6 |
| 70° | 64.9 | 59.1 | 47.5 | 48.7 | 42.9 | 34.8 | 31.3 | 30.1 | 27.8 | 24.3 | 22.0 |
| 72.5° | 35.9 | 35.9 | 34.8 | 37.1 | 30.1 | 23.2 | 19.7 | 16.2 | 12.8 | 10.4 | 9.3 |
| 75° | 22.0 | 23.2 | 24.3 | 25.5 | 19.7 | 15.1 | 12.8 | 8.1 | 4.6 | 2.3 | 2.3 |
| 77.5° | 15.1 | 16.2 | 17.4 | 18.5 | 16.2 | 13.9 | 10.4 | 5.8 | 1.2 | 0.0 | 0.0 |
| 80° | 11.6 | 12.8 | 15.1 | 16.2 | 17.4 | 18.5 | 13.9 | 5.8 | 1.2 | 0.0 | 0.0 |
| 82.5° | 12.8 | 13.9 | 17.4 | 16.2 | 16.2 | 16.2 | 12.8 | 5.8 | 1.2 | 0.0 | 0.0 |
| 85° | 2.3 | 3.5 | 5.8 | 5.8 | 8.1 | 10.4 | 8.1 | 2.3 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 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)