

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: P527986

Luminaire Tested: **GALN-SA3A-735-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527986
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-735-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11102 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

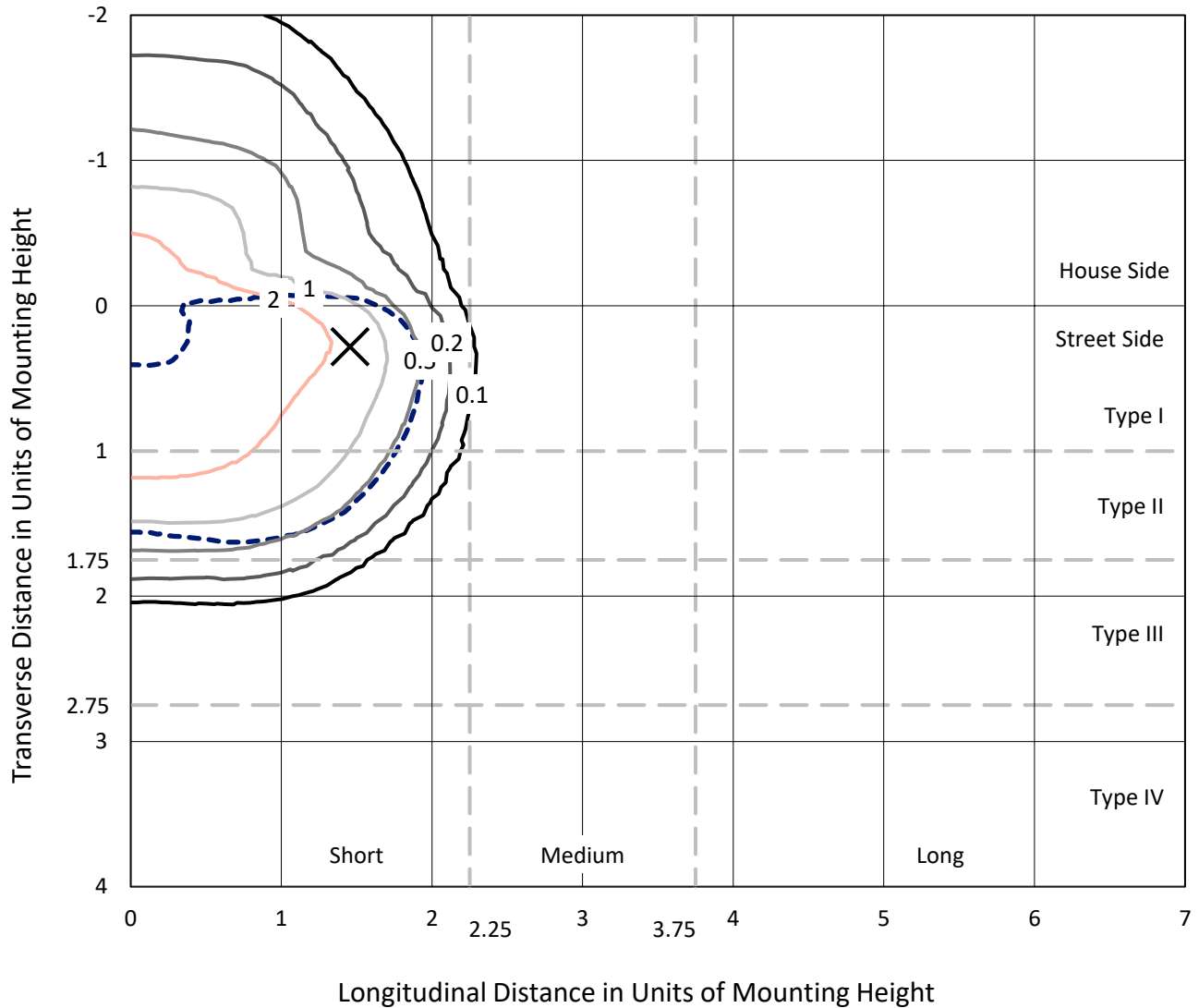
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

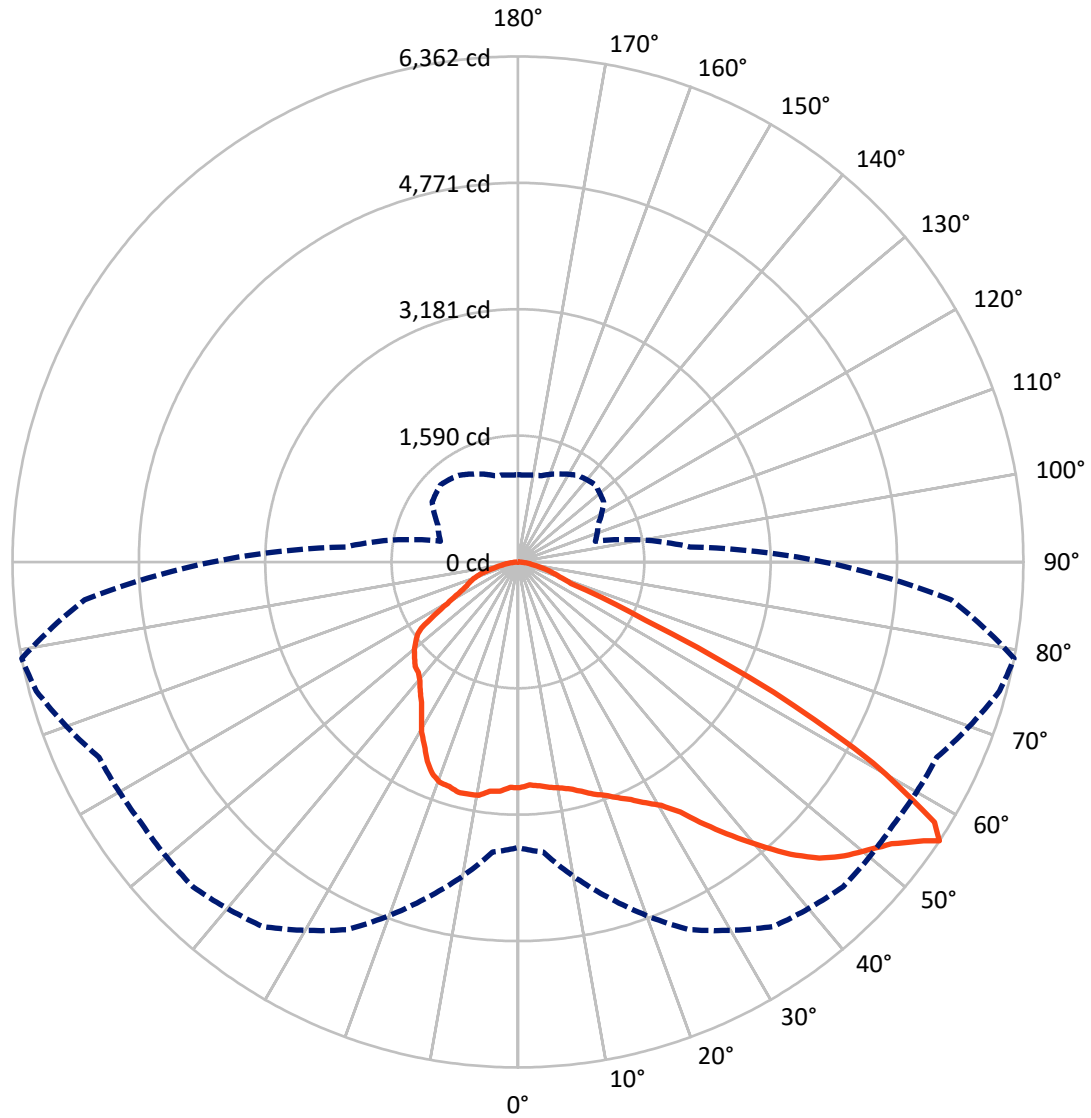
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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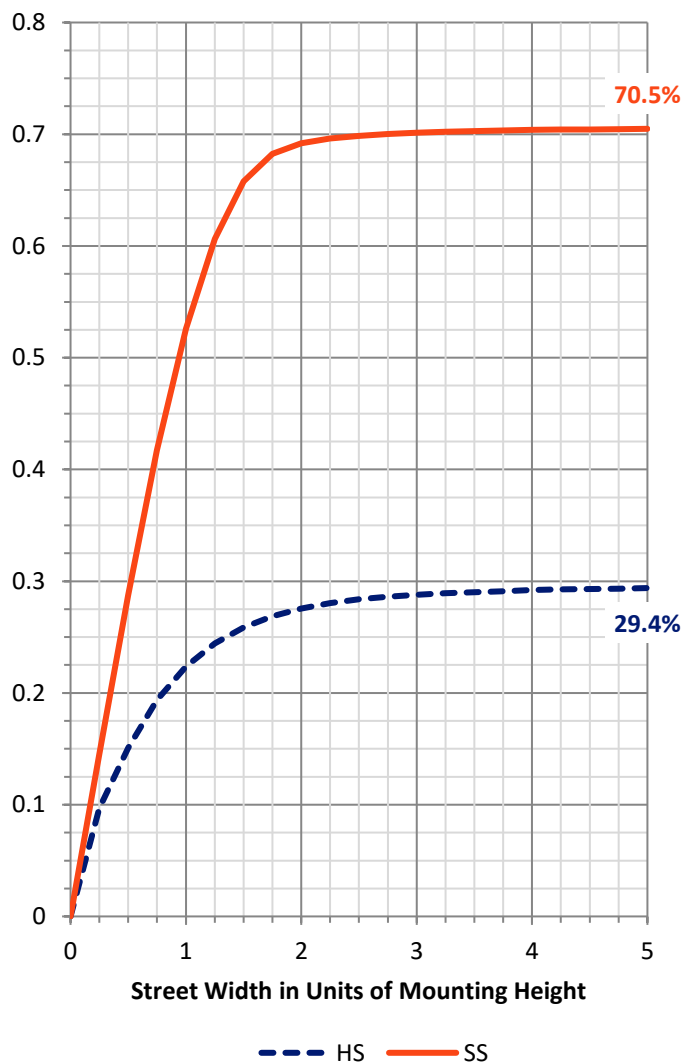
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3278.7 | 0.0 | 3278.7 |
| | % Fixture | 29.5 | 0.0 | 29.5 |
| Street Side | Lumens | 7823.3 | 0.0 | 7823.3 |
| | % Fixture | 70.5 | 0.0 | 70.5 |
| Total | Lumens | 11102.0 | 0.0 | 11102.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 258.3 | 2.3 |
| 10°-20° | 706.8 | 6.4 |
| 20°-30° | 1209.2 | 10.9 |
| 30°-40° | 1853.2 | 16.7 |
| 40°-50° | 2504.6 | 22.6 |
| 50°-60° | 2876.6 | 25.9 |
| 60°-70° | 1311.3 | 11.8 |
| 70°-80° | 323.3 | 2.9 |
| 80°-90° | 58.8 | 0.5 |
| 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° | 11102.0 | 100.0 |
| 0°-180° | 11102.0 | 100.0 |

Coefficient of Utilization



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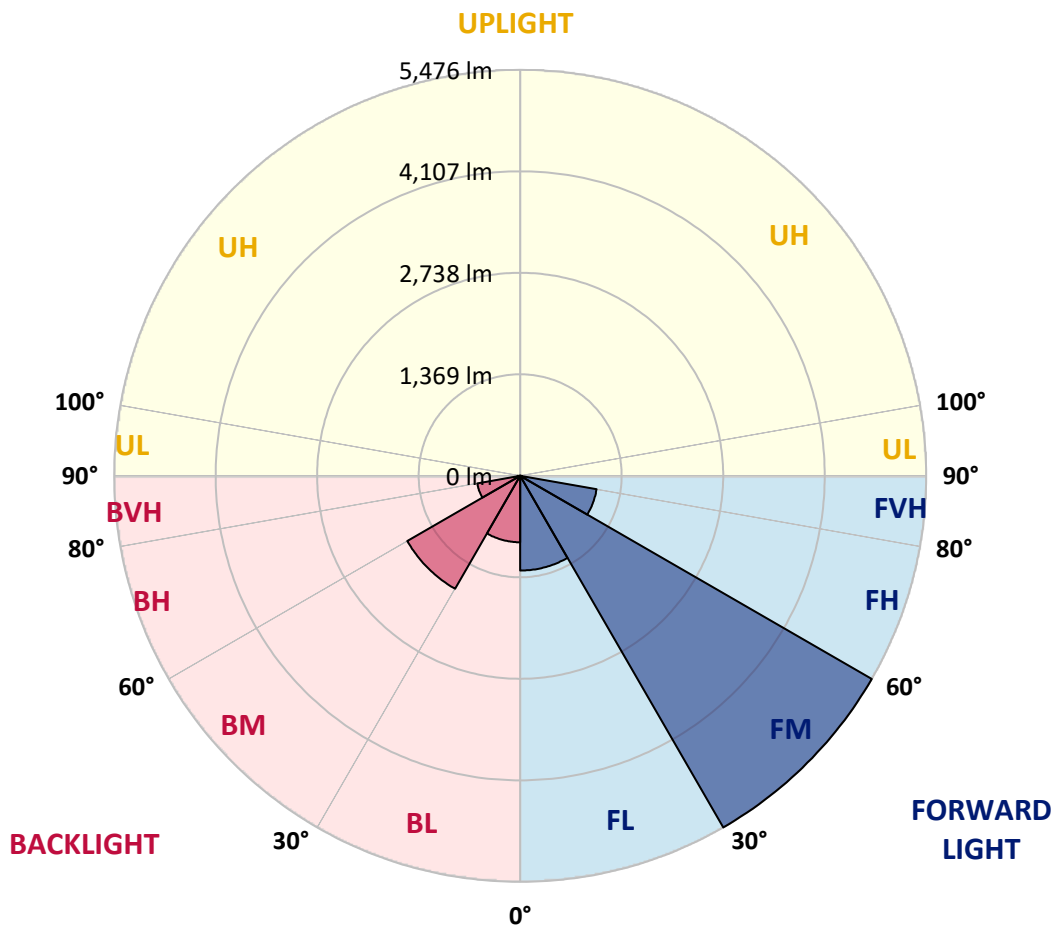
CATALOG NUMBER: GALN-SA3A-735-U-T3R-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1277.4 | 11.5 | | | |
| FM (30°-60°) | 5475.8 | 49.3 | | | |
| FH (60°-80°) | 1046.7 | 9.4 | | | G1/1800 |
| FVH (80°-90°) | 23.5 | 0.2 | | | G1/100 |
| BL (0°-30°) | 896.9 | 8.1 | B2/1000 | | |
| BM (30°-60°) | 1758.6 | 15.8 | B2/2500 | | |
| BH (60°-80°) | 587.9 | 5.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 35.3 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 79° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2840.6 | 2840.6 | 2840.6 | 2840.6 | 2840.6 | 2840.6 | 2840.6 | 2840.6 | 2840.6 | 2840.6 | 2840.6 |
| 2.5° | 2702.3 | 2695.4 | 2711.9 | 2724.4 | 2739.6 | 2759.0 | 2768.6 | 2774.2 | 2822.6 | 2810.1 | 2847.5 |
| 5° | 2644.2 | 2626.2 | 2638.7 | 2648.3 | 2674.6 | 2698.1 | 2724.4 | 2765.9 | 2810.1 | 2829.5 | 2875.1 |
| 7.5° | 2593.0 | 2583.3 | 2580.6 | 2587.5 | 2623.4 | 2653.9 | 2699.5 | 2760.4 | 2832.3 | 2864.1 | 2890.3 |
| 10° | 2508.7 | 2494.8 | 2515.6 | 2561.2 | 2570.9 | 2634.5 | 2687.1 | 2774.2 | 2836.4 | 2891.7 | 2969.2 |
| 12.5° | 2471.3 | 2457.5 | 2461.6 | 2487.9 | 2555.7 | 2616.5 | 2678.8 | 2776.9 | 2908.3 | 2930.5 | 3034.2 |
| 15° | 2530.8 | 2517.0 | 2521.1 | 2514.2 | 2579.2 | 2611.0 | 2709.2 | 2832.3 | 2958.1 | 2995.5 | 3106.1 |
| 17.5° | 2666.3 | 2667.7 | 2649.7 | 2634.5 | 2619.3 | 2687.1 | 2754.8 | 2865.5 | 2977.5 | 3071.5 | 3154.5 |
| 20° | 2924.9 | 2879.3 | 2843.3 | 2757.6 | 2734.1 | 2763.1 | 2848.9 | 2955.3 | 3056.3 | 3133.7 | 3227.8 |
| 22.5° | 3124.1 | 3128.2 | 3077.0 | 2936.0 | 2884.8 | 2897.3 | 2970.6 | 3057.7 | 3168.3 | 3223.6 | 3331.5 |
| 25° | 3413.1 | 3384.1 | 3328.7 | 3216.7 | 3101.9 | 3111.6 | 3165.6 | 3244.4 | 3274.8 | 3313.5 | 3431.1 |
| 27.5° | 3677.2 | 3685.5 | 3576.3 | 3471.2 | 3328.7 | 3301.1 | 3397.9 | 3411.7 | 3360.5 | 3433.8 | 3473.9 |
| 30° | 3945.5 | 3938.6 | 3866.7 | 3743.6 | 3603.9 | 3609.5 | 3652.3 | 3584.6 | 3514.1 | 3554.2 | 3581.8 |
| 32.5° | 4223.5 | 4144.7 | 4141.9 | 4031.3 | 3924.8 | 3873.6 | 3821.1 | 3854.3 | 3745.0 | 3753.3 | 3727.0 |
| 35° | 4446.2 | 4457.2 | 4393.6 | 4314.8 | 4262.2 | 4172.3 | 4028.5 | 4088.0 | 4067.2 | 4057.6 | 3944.1 |
| 37.5° | 4608.0 | 4565.1 | 4596.9 | 4570.6 | 4520.8 | 4408.8 | 4259.5 | 4316.2 | 4325.8 | 4372.9 | 4241.5 |
| 40° | 4740.7 | 4722.7 | 4807.1 | 4820.9 | 4786.4 | 4544.3 | 4276.1 | 4444.8 | 4590.0 | 4692.3 | 4536.0 |
| 42.5° | 4804.3 | 4843.1 | 4931.6 | 5038.1 | 4960.6 | 4702.0 | 4361.8 | 4543.0 | 4866.6 | 5028.4 | 4815.4 |
| 45° | 4890.1 | 4840.3 | 4971.7 | 5166.7 | 5168.1 | 4834.8 | 4444.8 | 4675.7 | 5082.3 | 5317.4 | 5006.2 |
| 47.5° | 4803.0 | 4827.8 | 4963.4 | 5210.9 | 5274.5 | 4974.4 | 4668.8 | 4863.8 | 5320.2 | 5529.0 | 5183.3 |
| 50° | 4608.0 | 4657.7 | 4905.3 | 5162.5 | 5354.8 | 5122.4 | 4926.0 | 5067.1 | 5540.1 | 5699.1 | 5212.3 |
| 52.5° | 4404.7 | 4432.3 | 4819.6 | 5199.9 | 5390.7 | 5313.3 | 5270.4 | 5347.8 | 5808.4 | 5891.3 | 5248.3 |
| 55° | 3851.5 | 3982.9 | 4536.0 | 5183.3 | 5566.3 | 5657.6 | 5624.4 | 5737.8 | 6112.6 | 6195.6 | 5444.6 |
| 56° | 3595.6 | 3664.8 | 4365.9 | 5105.8 | 5600.9 | 5783.5 | 5766.9 | 5818.0 | 6274.4 | 6361.5 | 5475.1 |
| 57.5° | 3122.7 | 3128.2 | 3722.9 | 4762.9 | 5470.9 | 5820.8 | 5804.2 | 5844.3 | 6242.6 | 6183.1 | 5208.2 |
| 60° | 1954.1 | 2039.8 | 2533.5 | 3663.4 | 4652.2 | 5400.4 | 5494.4 | 5172.2 | 5263.5 | 5137.6 | 4052.0 |
| 62.5° | 1012.3 | 999.9 | 1327.6 | 2142.2 | 3088.1 | 3866.7 | 3953.8 | 3938.6 | 3797.6 | 3613.6 | 2647.0 |
| 65° | 504.8 | 507.5 | 694.2 | 1060.7 | 1582.1 | 2024.6 | 2268.0 | 2294.3 | 1919.5 | 1766.0 | 1255.7 |
| 67.5° | 366.5 | 380.3 | 499.2 | 648.6 | 745.4 | 833.9 | 1022.0 | 1002.6 | 759.2 | 721.9 | 669.3 |
| 70° | 284.9 | 297.3 | 405.2 | 495.1 | 449.5 | 449.5 | 489.6 | 506.2 | 540.7 | 555.9 | 573.9 |
| 72.5° | 207.4 | 217.1 | 309.8 | 341.6 | 294.6 | 316.7 | 366.5 | 405.2 | 441.2 | 446.7 | 467.4 |
| 75° | 142.4 | 150.7 | 203.3 | 188.1 | 177.0 | 218.5 | 268.3 | 304.2 | 330.5 | 344.4 | 356.8 |
| 77.5° | 92.7 | 95.4 | 116.2 | 98.2 | 113.4 | 141.1 | 174.3 | 204.7 | 231.0 | 242.0 | 244.8 |
| 80° | 41.5 | 45.6 | 49.8 | 62.2 | 78.8 | 101.0 | 124.5 | 149.4 | 166.0 | 170.1 | 178.4 |
| 82.5° | 23.5 | 23.5 | 30.4 | 44.3 | 58.1 | 73.3 | 89.9 | 107.9 | 127.2 | 131.4 | 130.0 |
| 85° | 12.4 | 12.4 | 18.0 | 26.3 | 36.0 | 42.9 | 41.5 | 42.9 | 45.6 | 52.6 | 51.2 |
| 87.5° | 4.1 | 4.1 | 5.5 | 5.5 | 6.9 | 8.3 | 6.9 | 9.7 | 12.4 | 12.4 | 12.4 |
| 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° | 2840.6 | 2840.6 | 2840.6 | 2840.6 | 2840.6 | 2840.6 | 2840.6 | 2840.6 | 2840.6 | 2840.6 | 2840.6 |
| 2.5° | 2836.4 | 2848.9 | 2832.3 | 2868.2 | 2868.2 | 2861.3 | 2826.7 | 2837.8 | 2846.1 | 2846.1 | 2853.0 |
| 5° | 2890.3 | 2886.2 | 2897.3 | 2854.4 | 2828.1 | 2818.4 | 2761.7 | 2734.1 | 2710.6 | 2709.2 | 2688.4 |
| 7.5° | 2920.8 | 2909.7 | 2905.6 | 2873.8 | 2757.6 | 2687.1 | 2565.4 | 2494.8 | 2479.6 | 2425.7 | 2446.4 |
| 10° | 2969.2 | 2989.9 | 2969.2 | 2796.3 | 2634.5 | 2472.7 | 2353.8 | 2244.5 | 2201.6 | 2167.1 | 2146.3 |
| 12.5° | 3068.7 | 3059.1 | 2938.8 | 2705.0 | 2478.2 | 2286.0 | 2109.0 | 1994.2 | 1951.3 | 1920.9 | 1918.1 |
| 15° | 3153.1 | 3104.7 | 2920.8 | 2561.2 | 2234.8 | 2030.2 | 1884.9 | 1803.4 | 1784.0 | 1786.8 | 1799.2 |
| 17.5° | 3182.1 | 3149.0 | 2826.7 | 2411.9 | 2053.7 | 1813.0 | 1745.3 | 1732.8 | 1750.8 | 1771.5 | 1777.1 |
| 20° | 3227.8 | 3175.2 | 2788.0 | 2208.6 | 1829.6 | 1677.5 | 1673.4 | 1717.6 | 1750.8 | 1781.2 | 1785.4 |
| 22.5° | 3323.2 | 3190.4 | 2662.2 | 2016.3 | 1676.1 | 1637.4 | 1677.5 | 1714.8 | 1766.0 | 1790.9 | 1768.8 |
| 25° | 3350.9 | 3157.3 | 2485.1 | 1785.4 | 1579.3 | 1612.5 | 1655.4 | 1706.6 | 1742.5 | 1756.3 | 1766.0 |
| 27.5° | 3374.4 | 3106.1 | 2245.9 | 1631.9 | 1548.9 | 1611.1 | 1655.4 | 1698.3 | 1717.6 | 1730.1 | 1741.1 |
| 30° | 3440.8 | 3090.9 | 2038.5 | 1529.5 | 1529.5 | 1583.5 | 1640.2 | 1651.2 | 1677.5 | 1692.7 | 1712.1 |
| 32.5° | 3473.9 | 2985.8 | 1825.5 | 1464.5 | 1510.2 | 1597.3 | 1601.4 | 1622.2 | 1623.6 | 1636.0 | 1615.3 |
| 35° | 3561.1 | 2911.1 | 1627.7 | 1417.5 | 1518.5 | 1583.5 | 1604.2 | 1591.8 | 1524.0 | 1490.8 | 1497.7 |
| 37.5° | 3624.7 | 2873.8 | 1485.3 | 1412.0 | 1519.9 | 1598.7 | 1609.7 | 1515.7 | 1445.2 | 1389.9 | 1403.7 |
| 40° | 3796.2 | 2781.1 | 1377.4 | 1402.3 | 1532.3 | 1615.3 | 1584.9 | 1482.5 | 1355.3 | 1298.6 | 1288.9 |
| 42.5° | 3927.6 | 2714.7 | 1309.6 | 1391.2 | 1542.0 | 1638.8 | 1572.4 | 1416.1 | 1286.1 | 1233.6 | 1247.4 |
| 45° | 4079.7 | 2699.5 | 1273.7 | 1394.0 | 1558.6 | 1651.2 | 1557.2 | 1365.0 | 1226.7 | 1205.9 | 1201.8 |
| 47.5° | 4133.6 | 2590.2 | 1235.0 | 1370.5 | 1554.4 | 1647.1 | 1506.0 | 1326.2 | 1204.5 | 1207.3 | 1218.4 |
| 50° | 4043.7 | 2478.2 | 1205.9 | 1322.1 | 1526.8 | 1609.7 | 1425.8 | 1275.1 | 1192.1 | 1226.7 | 1246.0 |
| 52.5° | 3928.9 | 2363.4 | 1146.5 | 1257.1 | 1470.1 | 1551.7 | 1388.5 | 1272.3 | 1179.6 | 1168.6 | 1172.7 |
| 55° | 3963.5 | 2269.4 | 1063.5 | 1168.6 | 1378.8 | 1443.8 | 1347.0 | 1246.0 | 1149.2 | 1107.7 | 1121.6 |
| 56° | 3851.5 | 2172.6 | 1009.5 | 1113.3 | 1316.6 | 1374.6 | 1326.2 | 1222.5 | 1124.3 | 1096.7 | 1096.7 |
| 57.5° | 3534.8 | 1847.6 | 939.0 | 1024.8 | 1185.2 | 1254.3 | 1286.1 | 1208.7 | 1096.7 | 1048.3 | 1049.7 |
| 60° | 2606.8 | 1313.8 | 842.2 | 903.1 | 981.9 | 1037.2 | 1185.2 | 1170.0 | 1027.5 | 994.3 | 981.9 |
| 62.5° | 1607.0 | 959.8 | 773.1 | 796.6 | 836.7 | 882.3 | 1034.4 | 1059.3 | 954.2 | 918.3 | 910.0 |
| 65° | 900.3 | 734.3 | 720.5 | 730.2 | 749.6 | 773.1 | 858.8 | 914.1 | 842.2 | 786.9 | 784.1 |
| 67.5° | 658.3 | 656.9 | 668.0 | 676.3 | 684.6 | 684.6 | 705.3 | 727.4 | 717.7 | 673.5 | 669.3 |
| 70° | 585.0 | 589.1 | 597.4 | 598.8 | 601.6 | 591.9 | 575.3 | 568.4 | 579.5 | 551.8 | 546.3 |
| 72.5° | 482.6 | 496.5 | 506.2 | 507.5 | 492.3 | 479.9 | 457.8 | 434.2 | 425.9 | 420.4 | 419.0 |
| 75° | 370.6 | 380.3 | 384.5 | 383.1 | 377.5 | 359.6 | 333.3 | 309.8 | 294.6 | 278.0 | 286.3 |
| 77.5° | 250.3 | 264.1 | 271.1 | 271.1 | 262.8 | 235.1 | 222.7 | 204.7 | 189.5 | 171.5 | 174.3 |
| 80° | 175.6 | 185.3 | 196.4 | 195.0 | 181.2 | 167.3 | 149.4 | 132.8 | 120.3 | 106.5 | 105.1 |
| 82.5° | 131.4 | 136.9 | 142.4 | 139.7 | 130.0 | 116.2 | 103.7 | 88.5 | 74.7 | 65.0 | 65.0 |
| 85° | 47.0 | 51.2 | 62.2 | 65.0 | 70.5 | 70.5 | 59.5 | 49.8 | 40.1 | 33.2 | 33.2 |
| 87.5° | 13.8 | 13.8 | 15.2 | 15.2 | 13.8 | 15.2 | 12.4 | 13.8 | 15.2 | 9.7 | 9.7 |
| 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)