

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: P453899

Luminaire Tested: **GALN-SA5A-722-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453899
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5A-722-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16798 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

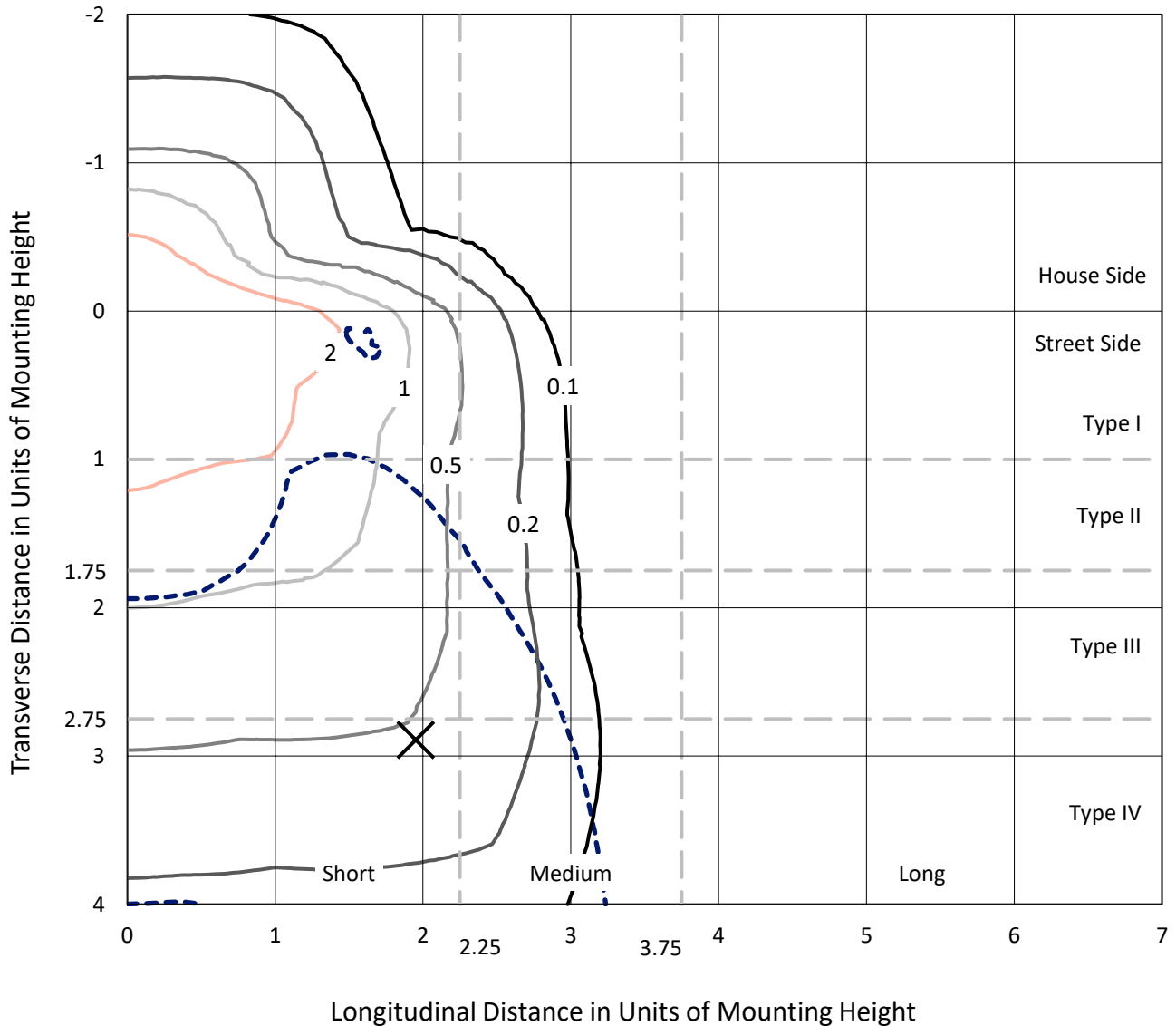
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

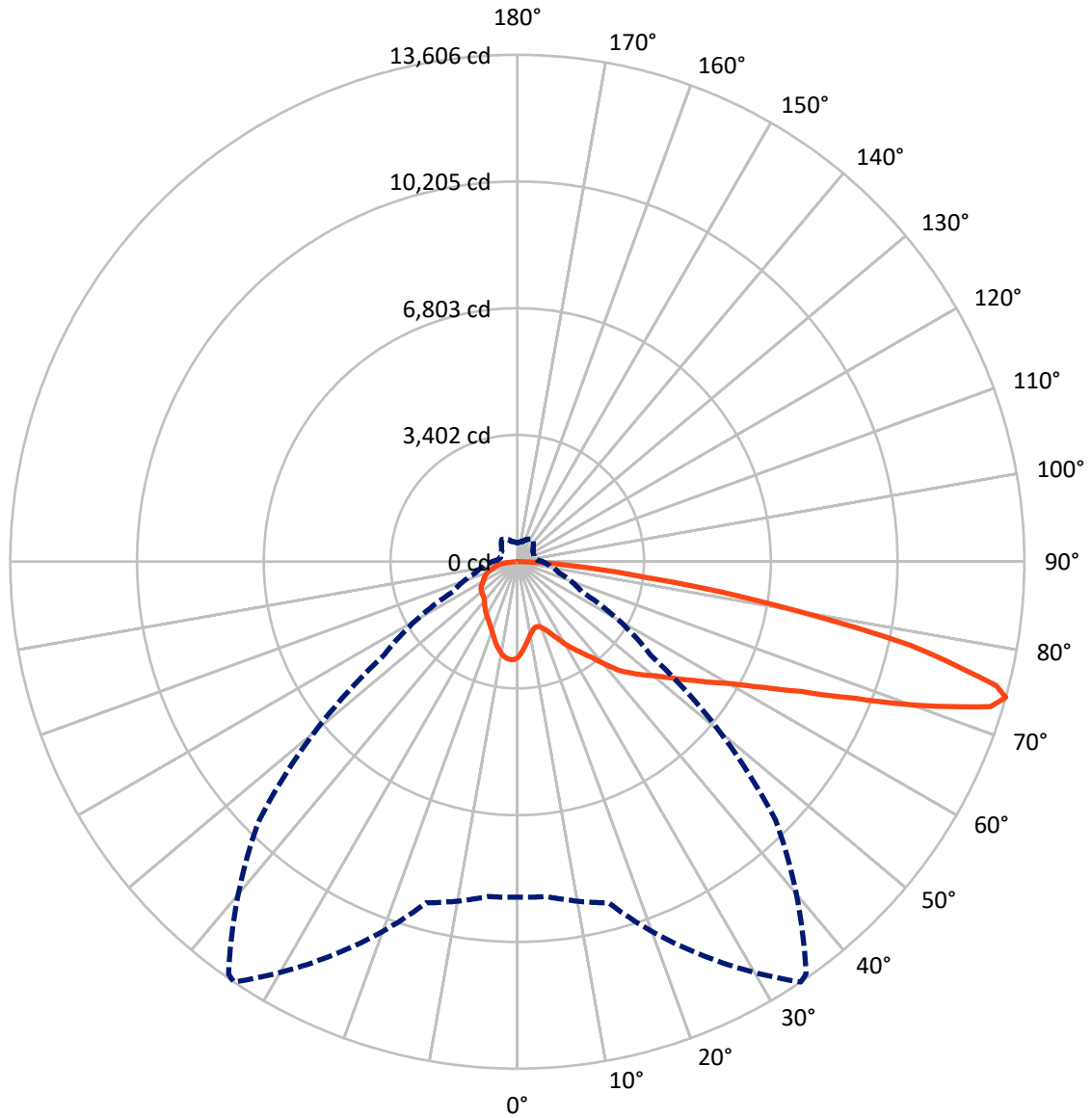
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3574.7 | 0.0 | 3574.7 |
| | % Fixture | 21.3 | 0.0 | 21.3 |
| Street Side | Lumens | 13223.3 | 0.0 | 13223.3 |
| | % Fixture | 78.7 | 0.0 | 78.7 |
| Total | Lumens | 16798.0 | 0.0 | 16798.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 233.3 | 1.4 |
| 10°-20° | 638.5 | 3.8 |
| 20°-30° | 1052.7 | 6.3 |
| 30°-40° | 1576.9 | 9.4 |
| 40°-50° | 2292.4 | 13.6 |
| 50°-60° | 3201.9 | 19.1 |
| 60°-70° | 4008.6 | 23.9 |
| 70°-80° | 3314.8 | 19.7 |
| 80°-90° | 479.0 | 2.9 |
| 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° | 16798.0 | 100.0 |
| 0°-180° | 16798.0 | 100.0 |

Coefficient of Utilization



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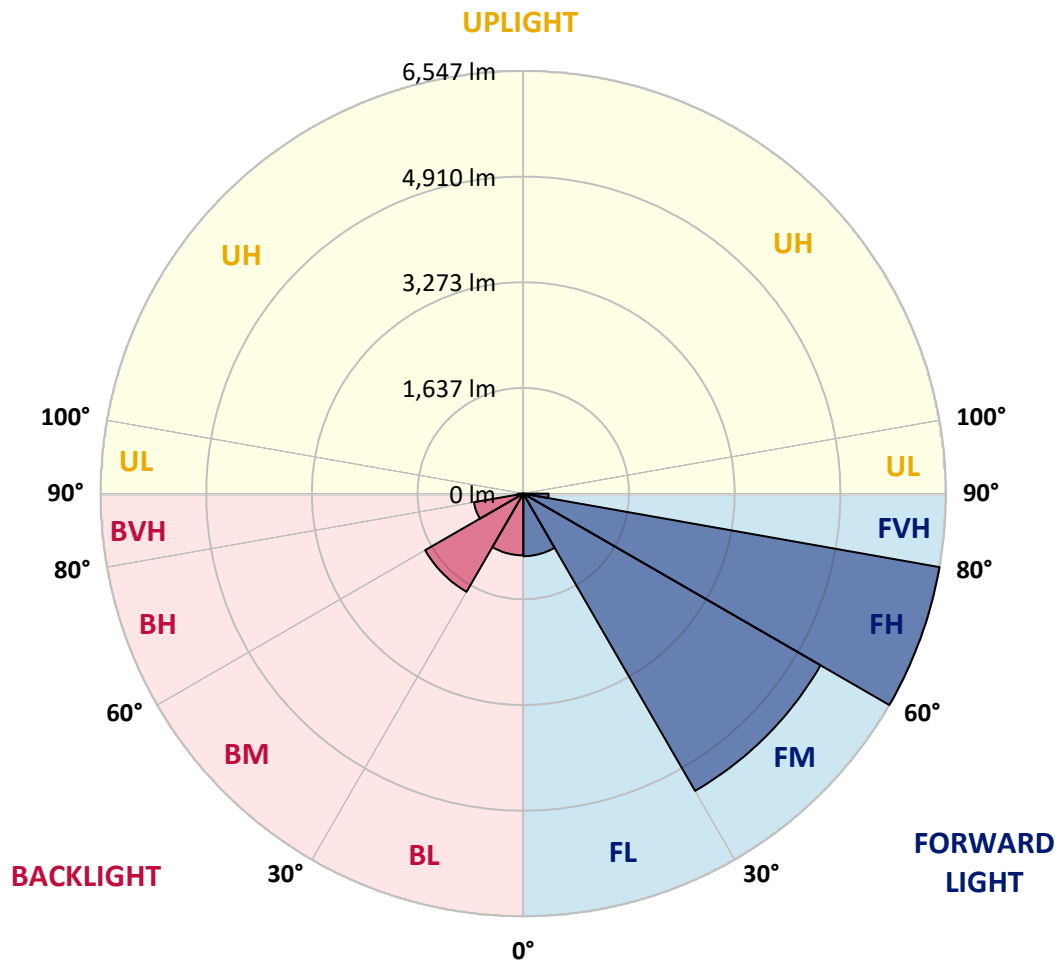
CATALOG NUMBER: GALN-SA5A-722-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 968.3 | 5.8 | | | |
| FM (30°-60°) | 5315.6 | 31.6 | | | |
| FH (60°-80°) | 6547.0 | 39.0 | | | G3/7500 |
| FVH (80°-90°) | 392.4 | 2.3 | | | G3/500 |
| BL (0°-30°) | 956.2 | 5.7 | B2/1000 | | |
| BM (30°-60°) | 1755.6 | 10.5 | B2/2500 | | |
| BH (60°-80°) | 776.4 | 4.6 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 86.6 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 34° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0° | 2564.7 | 2564.7 | 2564.7 | 2564.7 | 2564.7 | 2564.7 | 2564.7 | 2564.7 | 2564.7 | 2564.7 | 2564.7 |
| 2.5° | 2370.2 | 2382.3 | 2388.8 | 2412.1 | 2417.7 | 2425.1 | 2444.7 | 2470.7 | 2504.2 | 2534.0 | 2560.1 |
| 5° | 2172.9 | 2191.6 | 2202.7 | 2223.2 | 2263.2 | 2266.9 | 2319.0 | 2378.6 | 2446.5 | 2509.8 | 2561.9 |
| 7.5° | 1985.9 | 2006.4 | 2015.7 | 2052.9 | 2105.9 | 2114.3 | 2190.6 | 2284.6 | 2398.1 | 2494.0 | 2574.0 |
| 10° | 1845.4 | 1855.6 | 1876.1 | 1904.0 | 1967.3 | 1972.9 | 2072.4 | 2198.1 | 2345.1 | 2486.6 | 2594.5 |
| 12.5° | 1769.1 | 1774.6 | 1779.3 | 1809.1 | 1871.4 | 1879.8 | 1984.0 | 2126.4 | 2303.2 | 2492.1 | 2628.0 |
| 15° | 1780.2 | 1782.1 | 1761.6 | 1767.2 | 1817.5 | 1829.6 | 1932.8 | 2079.0 | 2277.2 | 2506.1 | 2678.3 |
| 17.5° | 1874.2 | 1867.7 | 1817.5 | 1791.4 | 1826.8 | 1832.3 | 1922.6 | 2060.3 | 2265.1 | 2532.2 | 2730.4 |
| 20° | 2022.2 | 2012.9 | 1926.3 | 1868.6 | 1889.1 | 1893.8 | 1956.1 | 2074.3 | 2277.2 | 2575.0 | 2811.3 |
| 22.5° | 2206.4 | 2202.7 | 2071.5 | 2001.7 | 2000.8 | 2000.8 | 2033.4 | 2124.6 | 2313.5 | 2633.6 | 2896.0 |
| 25° | 2464.2 | 2444.7 | 2273.4 | 2183.2 | 2158.1 | 2156.2 | 2152.5 | 2207.4 | 2360.0 | 2695.9 | 2996.5 |
| 27.5° | 2728.5 | 2695.0 | 2542.4 | 2403.7 | 2349.8 | 2343.2 | 2319.0 | 2324.6 | 2419.5 | 2766.7 | 3111.0 |
| 30° | 2965.8 | 2944.4 | 2801.1 | 2647.5 | 2583.3 | 2568.4 | 2501.4 | 2470.7 | 2519.1 | 2894.2 | 3293.4 |
| 32.5° | 3147.3 | 3134.2 | 3022.6 | 2883.0 | 2788.1 | 2785.3 | 2687.6 | 2662.4 | 2674.5 | 3048.6 | 3501.8 |
| 35° | 3294.3 | 3299.0 | 3242.2 | 3121.2 | 3012.3 | 2996.5 | 2931.4 | 2899.7 | 2864.4 | 3272.0 | 3764.3 |
| 37.5° | 3495.3 | 3505.6 | 3501.8 | 3397.6 | 3264.5 | 3268.3 | 3253.4 | 3201.2 | 3107.3 | 3521.4 | 4055.5 |
| 40° | 3716.8 | 3724.2 | 3723.3 | 3683.3 | 3613.5 | 3617.2 | 3611.6 | 3552.1 | 3411.6 | 3838.7 | 4379.4 |
| 42.5° | 4023.0 | 3987.6 | 3895.5 | 3935.5 | 3976.4 | 3994.1 | 4032.3 | 3975.5 | 3782.9 | 4177.4 | 4683.7 |
| 45° | 4365.4 | 4298.4 | 4090.0 | 4108.6 | 4260.3 | 4293.8 | 4504.1 | 4425.9 | 4185.8 | 4566.4 | 5042.0 |
| 47.5° | 4581.3 | 4515.3 | 4339.4 | 4335.6 | 4536.7 | 4569.2 | 4941.5 | 4912.6 | 4552.5 | 4986.1 | 5479.3 |
| 50° | 4774.0 | 4764.7 | 4566.4 | 4613.9 | 4810.3 | 4858.6 | 5417.9 | 5390.9 | 4918.2 | 5481.2 | 5955.8 |
| 52.5° | 5059.7 | 4984.3 | 4826.1 | 4923.8 | 5183.4 | 5246.7 | 5890.7 | 5811.6 | 5254.1 | 5918.6 | 6418.3 |
| 55° | 5188.1 | 5170.4 | 5161.1 | 5245.8 | 5602.2 | 5647.8 | 6350.4 | 6168.9 | 5540.8 | 6289.0 | 6770.1 |
| 57.5° | 5531.5 | 5498.9 | 5591.0 | 5648.7 | 6095.4 | 6165.2 | 6830.6 | 6542.1 | 5792.0 | 6583.0 | 6941.3 |
| 60° | 5976.3 | 5958.6 | 6043.3 | 6147.5 | 6646.3 | 6752.4 | 7377.8 | 6860.4 | 5994.0 | 6731.0 | 6847.3 |
| 62.5° | 6640.7 | 6638.9 | 6623.1 | 6846.4 | 7427.1 | 7524.8 | 8005.9 | 7170.2 | 6025.6 | 6620.3 | 6361.6 |
| 65° | 7593.7 | 7560.2 | 7422.4 | 7666.2 | 8398.6 | 8513.1 | 8660.1 | 7343.3 | 5834.8 | 6051.7 | 5356.5 |
| 67.5° | 8590.3 | 8588.5 | 8476.8 | 8793.2 | 9793.6 | 9911.8 | 9478.1 | 7305.2 | 5305.3 | 4902.4 | 3804.3 |
| 70° | 9416.7 | 9376.7 | 9519.1 | 10362.2 | 11575.7 | 11712.5 | 10193.7 | 6855.7 | 4225.8 | 3237.5 | 2260.4 |
| 72.5° | 9614.9 | 9616.8 | 9912.7 | 11572.0 | 13287.0 | 13308.5 | 10451.5 | 5556.6 | 2828.1 | 1785.8 | 1130.7 |
| 74° | 9004.4 | 9020.3 | 9479.1 | 11632.4 | 13606.2 | 13509.5 | 9792.7 | 4367.3 | 1912.4 | 1166.0 | 815.2 |
| 75° | 8219.0 | 8119.4 | 8783.0 | 11229.5 | 13275.0 | 13170.7 | 9021.2 | 3504.6 | 1459.2 | 931.5 | 713.8 |
| 77.5° | 4394.3 | 4495.7 | 5519.4 | 8380.0 | 10784.7 | 10664.6 | 6116.8 | 1680.7 | 788.2 | 648.6 | 513.7 |
| 80° | 1564.3 | 1725.3 | 2425.1 | 4385.0 | 6914.3 | 6951.6 | 2919.3 | 770.5 | 554.6 | 478.3 | 362.9 |
| 82.5° | 638.4 | 656.1 | 1041.3 | 1945.9 | 3511.1 | 3544.6 | 1192.1 | 457.9 | 396.4 | 329.4 | 216.8 |
| 85° | 249.4 | 256.8 | 460.6 | 874.8 | 1498.3 | 1596.0 | 412.3 | 242.0 | 243.8 | 188.9 | 110.7 |
| 87.5° | 83.8 | 94.9 | 188.9 | 291.3 | 509.0 | 498.8 | 120.0 | 71.7 | 87.5 | 81.9 | 34.4 |
| 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° | 2564.7 | 2564.7 | 2564.7 | 2564.7 | 2564.7 | 2564.7 | 2564.7 | 2564.7 | 2564.7 | 2564.7 | 2564.7 |
| 2.5° | 2573.1 | 2590.8 | 2602.9 | 2615.9 | 2628.0 | 2631.7 | 2628.9 | 2637.3 | 2638.2 | 2639.2 | 2640.1 |
| 5° | 2588.0 | 2612.2 | 2635.4 | 2648.5 | 2654.1 | 2649.4 | 2633.6 | 2625.2 | 2617.8 | 2612.2 | 2614.0 |
| 7.5° | 2608.5 | 2642.9 | 2664.3 | 2669.9 | 2655.0 | 2633.6 | 2594.5 | 2563.8 | 2544.2 | 2531.2 | 2530.3 |
| 10° | 2640.1 | 2673.6 | 2691.3 | 2675.5 | 2634.5 | 2582.4 | 2521.0 | 2463.3 | 2419.5 | 2406.5 | 2405.6 |
| 12.5° | 2680.1 | 2718.3 | 2717.3 | 2670.8 | 2599.2 | 2506.1 | 2406.5 | 2339.5 | 2280.0 | 2250.2 | 2262.3 |
| 15° | 2732.2 | 2761.1 | 2734.1 | 2650.3 | 2536.8 | 2409.3 | 2286.5 | 2195.3 | 2128.3 | 2096.6 | 2098.5 |
| 17.5° | 2792.7 | 2817.8 | 2746.2 | 2614.0 | 2449.3 | 2285.5 | 2143.2 | 2056.6 | 2003.6 | 1980.3 | 1978.4 |
| 20° | 2868.1 | 2875.5 | 2746.2 | 2550.8 | 2336.7 | 2141.3 | 2005.4 | 1944.9 | 1915.2 | 1903.1 | 1906.8 |
| 22.5° | 2949.1 | 2934.2 | 2731.3 | 2461.4 | 2188.8 | 1990.5 | 1899.3 | 1872.4 | 1857.5 | 1855.6 | 1857.5 |
| 25° | 3040.3 | 2998.4 | 2700.6 | 2340.4 | 2034.3 | 1860.3 | 1807.2 | 1811.9 | 1814.7 | 1814.7 | 1821.2 |
| 27.5° | 3151.9 | 3068.2 | 2649.4 | 2187.8 | 1853.7 | 1739.3 | 1724.4 | 1757.0 | 1771.9 | 1774.6 | 1779.3 |
| 30° | 3299.0 | 3144.5 | 2564.7 | 1997.1 | 1700.2 | 1630.4 | 1656.5 | 1700.2 | 1716.9 | 1727.2 | 1725.3 |
| 32.5° | 3473.9 | 3228.2 | 2450.3 | 1806.3 | 1576.4 | 1554.1 | 1585.7 | 1630.4 | 1649.0 | 1654.6 | 1647.2 |
| 35° | 3679.6 | 3323.2 | 2299.5 | 1627.6 | 1468.5 | 1481.5 | 1518.7 | 1532.7 | 1549.4 | 1549.4 | 1553.2 |
| 37.5° | 3901.1 | 3399.5 | 2115.2 | 1463.8 | 1384.7 | 1432.2 | 1459.2 | 1446.1 | 1438.7 | 1429.4 | 1434.0 |
| 40° | 4126.3 | 3456.2 | 1876.1 | 1301.9 | 1301.0 | 1381.0 | 1388.4 | 1351.2 | 1321.4 | 1312.1 | 1307.5 |
| 42.5° | 4322.6 | 3491.6 | 1660.2 | 1176.3 | 1221.9 | 1330.8 | 1336.3 | 1276.8 | 1229.3 | 1201.4 | 1192.1 |
| 45° | 4554.3 | 3532.5 | 1448.9 | 1072.0 | 1148.4 | 1290.7 | 1304.7 | 1224.7 | 1154.9 | 1096.2 | 1081.4 |
| 47.5° | 4871.7 | 3625.6 | 1282.4 | 991.1 | 1095.3 | 1265.6 | 1285.2 | 1181.9 | 1089.7 | 1013.4 | 1001.3 |
| 50° | 5229.9 | 3753.1 | 1153.0 | 936.2 | 1054.4 | 1243.3 | 1267.5 | 1138.1 | 1029.2 | 944.6 | 935.2 |
| 52.5° | 5558.4 | 3822.0 | 1041.3 | 886.9 | 1014.3 | 1202.3 | 1244.2 | 1106.5 | 969.7 | 875.7 | 867.3 |
| 55° | 5738.1 | 3710.3 | 931.5 | 838.5 | 959.4 | 1149.3 | 1211.6 | 1062.7 | 912.0 | 839.4 | 827.3 |
| 57.5° | 5762.2 | 3479.5 | 832.0 | 786.4 | 901.7 | 1084.1 | 1151.1 | 1009.7 | 874.8 | 814.3 | 804.0 |
| 60° | 5575.2 | 3135.2 | 754.7 | 743.5 | 843.1 | 1010.6 | 1083.2 | 963.2 | 836.6 | 786.4 | 776.1 |
| 62.5° | 5109.9 | 2761.1 | 700.7 | 704.5 | 783.6 | 933.4 | 1033.0 | 918.5 | 800.3 | 755.6 | 746.3 |
| 65° | 4309.6 | 2279.0 | 648.6 | 664.4 | 730.5 | 872.9 | 987.4 | 881.3 | 764.0 | 732.4 | 724.0 |
| 67.5° | 2993.7 | 1645.3 | 605.8 | 622.6 | 680.3 | 811.5 | 934.3 | 841.3 | 723.1 | 706.3 | 693.3 |
| 70° | 1657.4 | 1012.5 | 555.6 | 575.1 | 628.2 | 742.6 | 874.8 | 780.8 | 663.5 | 656.1 | 637.5 |
| 72.5° | 871.0 | 644.9 | 498.8 | 520.2 | 557.4 | 654.2 | 783.6 | 714.7 | 604.9 | 573.2 | 549.1 |
| 74° | 680.3 | 528.6 | 460.6 | 483.0 | 508.1 | 602.1 | 729.6 | 667.2 | 563.0 | 525.8 | 507.2 |
| 75° | 592.8 | 470.9 | 428.1 | 456.9 | 479.3 | 566.7 | 687.7 | 633.7 | 539.7 | 504.4 | 487.6 |
| 77.5° | 418.8 | 352.7 | 349.9 | 384.3 | 396.4 | 496.9 | 619.8 | 577.0 | 481.1 | 443.9 | 428.1 |
| 80° | 294.1 | 264.3 | 277.3 | 298.7 | 315.5 | 439.2 | 575.1 | 498.8 | 394.6 | 350.8 | 345.3 |
| 82.5° | 191.7 | 173.1 | 198.2 | 217.8 | 223.3 | 323.8 | 464.4 | 378.8 | 287.6 | 233.6 | 216.8 |
| 85° | 88.4 | 86.5 | 113.5 | 110.7 | 109.8 | 158.2 | 275.5 | 221.5 | 165.6 | 123.8 | 116.3 |
| 87.5° | 22.3 | 21.4 | 27.9 | 23.3 | 27.9 | 24.2 | 25.1 | 6.5 | 0.9 | 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)