

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: P455058

Luminaire Tested: **GALN-SA6B-722-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455058
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-722-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2200K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17861 lumens
Efficiency: N/A
Efficacy: 73.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

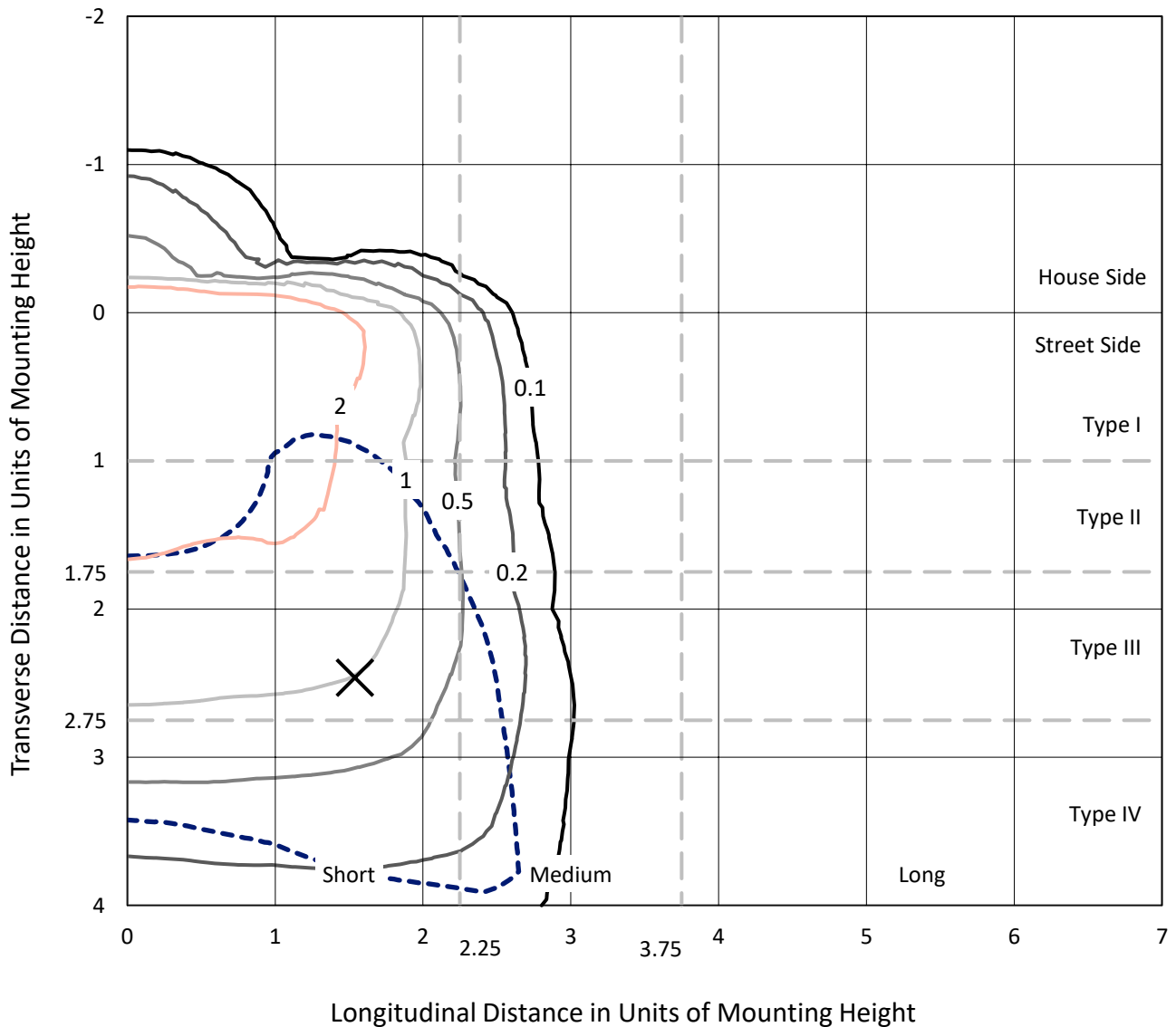
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

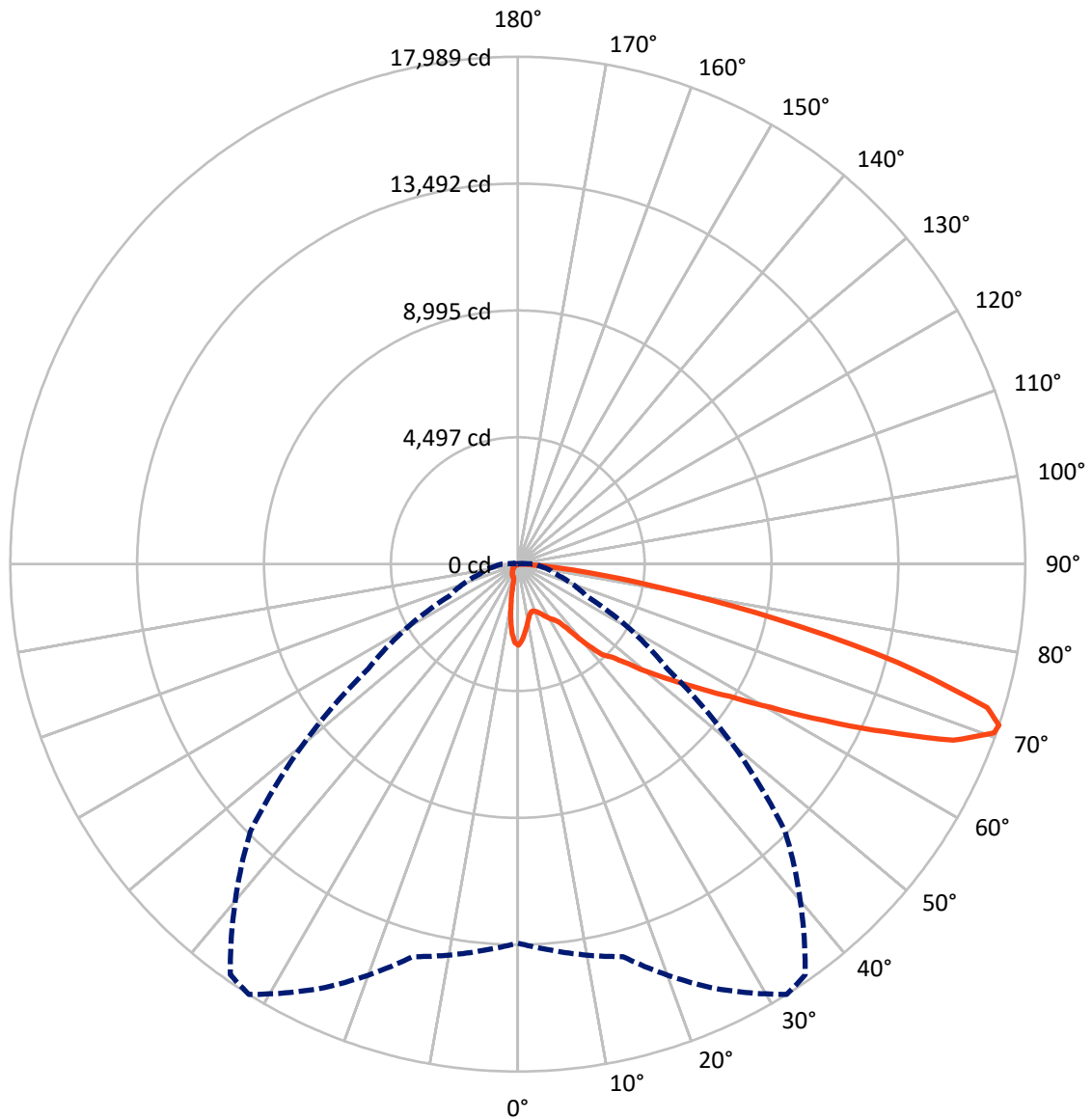
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1496.0 | 0.0 | 1496.0 |
| | % Fixture | 8.4 | 0.0 | 8.4 |
| Street Side | Lumens | 16364.9 | 0.0 | 16364.9 |
| | % Fixture | 91.6 | 0.0 | 91.6 |
| Total | Lumens | 17861.0 | 0.0 | 17861.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 233.6 | 1.3 |
| 10°-20° | 506.9 | 2.8 |
| 20°-30° | 788.6 | 4.4 |
| 30°-40° | 1313.8 | 7.4 |
| 40°-50° | 2443.8 | 13.7 |
| 50°-60° | 3923.6 | 22.0 |
| 60°-70° | 5277.5 | 29.5 |
| 70°-80° | 3131.2 | 17.5 |
| 80°-90° | 242.0 | 1.4 |
| 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° | 17861.0 | 100.0 |
| 0°-180° | 17861.0 | 100.0 |

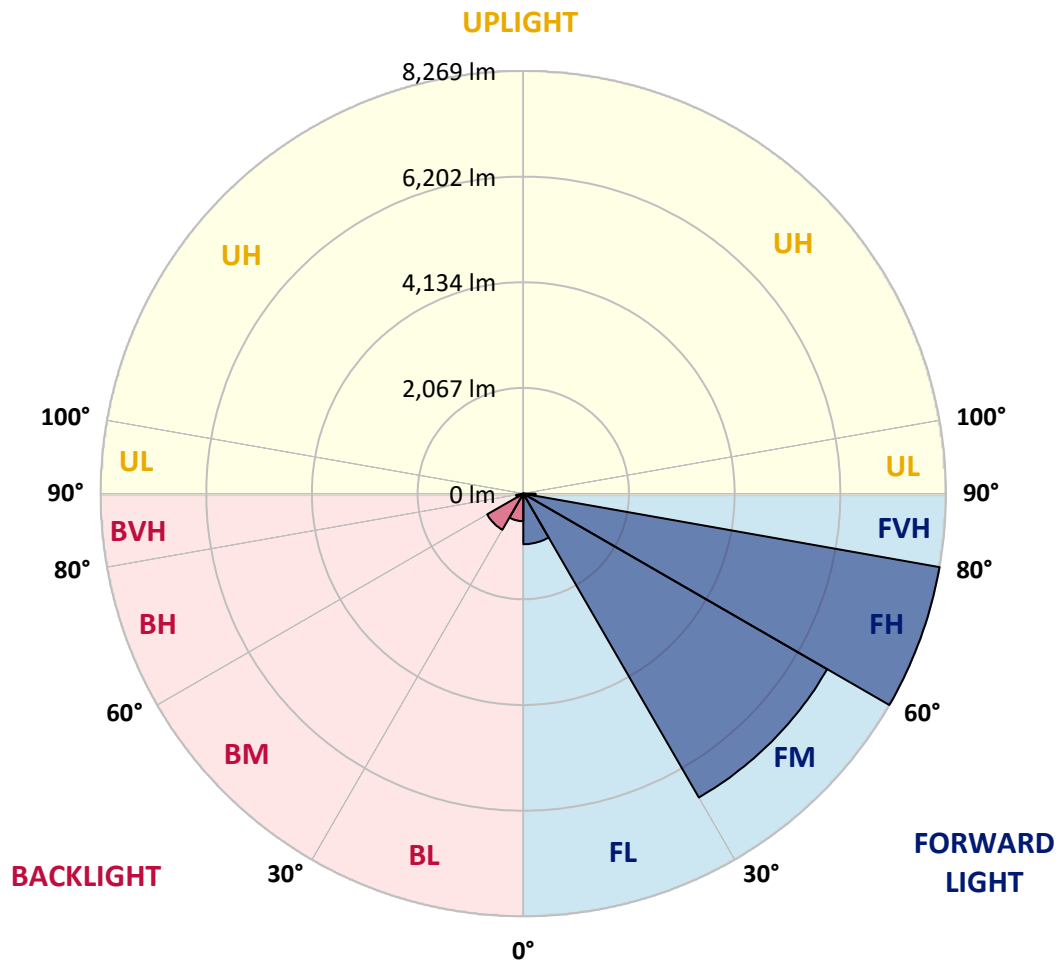


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 990.0 | 5.5 | | | |
| FM (30°-60°) | 6865.1 | 38.4 | | | |
| FH (60°-80°) | 8268.8 | 46.3 | | | G4/12000 |
| FVH (80°-90°) | 241.1 | 1.3 | | | G3/500 |
| BL (0°-30°) | 539.1 | 3.0 | B2/1000 | | |
| BM (30°-60°) | 816.1 | 4.6 | B1/1000 | | |
| BH (60°-80°) | 139.9 | 0.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 0.9 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 32° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|
| 0° | 2872.3 | 2872.3 | 2872.3 | 2872.3 | 2872.3 | 2872.3 | 2872.3 | 2872.3 | 2872.3 | 2872.3 | 2872.3 |
| 2.5° | 2663.9 | 2691.4 | 2687.2 | 2696.8 | 2720.1 | 2729.7 | 2755.8 | 2784.6 | 2824.3 | 2851.8 | 2869.6 |
| 5° | 2385.6 | 2406.2 | 2408.9 | 2456.9 | 2480.2 | 2506.3 | 2583.0 | 2666.7 | 2759.9 | 2833.9 | 2883.3 |
| 7.5° | 2088.1 | 2099.1 | 2121.0 | 2184.1 | 2243.0 | 2269.1 | 2385.6 | 2530.9 | 2677.6 | 2816.1 | 2905.2 |
| 10° | 1842.7 | 1855.0 | 1894.8 | 1962.0 | 2016.8 | 2051.1 | 2212.9 | 2395.2 | 2600.9 | 2806.5 | 2936.8 |
| 12.5° | 1702.8 | 1709.7 | 1724.8 | 1785.1 | 1855.0 | 1892.0 | 2066.2 | 2274.6 | 2539.2 | 2810.6 | 2990.2 |
| 15° | 1693.2 | 1690.5 | 1672.7 | 1697.3 | 1760.4 | 1798.8 | 1968.8 | 2192.3 | 2484.3 | 2824.3 | 3053.3 |
| 17.5° | 1744.0 | 1737.1 | 1694.6 | 1694.6 | 1746.7 | 1778.2 | 1927.7 | 2148.4 | 2456.9 | 2855.9 | 3142.4 |
| 20° | 1822.1 | 1811.1 | 1741.2 | 1735.7 | 1786.5 | 1819.4 | 1952.4 | 2151.2 | 2462.4 | 2914.8 | 3261.7 |
| 22.5° | 1920.8 | 1908.5 | 1802.9 | 1805.7 | 1860.5 | 1893.4 | 2023.7 | 2200.5 | 2496.7 | 2987.5 | 3389.2 |
| 25° | 2049.7 | 2036.0 | 1911.2 | 1905.7 | 1963.3 | 1992.1 | 2129.2 | 2288.3 | 2544.6 | 3078.0 | 3556.5 |
| 27.5° | 2221.1 | 2192.3 | 2042.8 | 2034.6 | 2096.3 | 2133.3 | 2256.7 | 2406.2 | 2629.7 | 3202.7 | 3781.3 |
| 30° | 2362.3 | 2330.8 | 2188.2 | 2166.2 | 2232.1 | 2260.8 | 2388.4 | 2565.2 | 2796.9 | 3420.7 | 4092.6 |
| 32.5° | 2547.4 | 2500.8 | 2333.5 | 2275.9 | 2345.8 | 2382.9 | 2578.9 | 2861.4 | 3045.1 | 3651.1 | 4462.7 |
| 35° | 2964.2 | 2935.4 | 2731.1 | 2529.6 | 2525.5 | 2572.1 | 2860.0 | 3160.2 | 3300.1 | 4010.3 | 4967.3 |
| 37.5° | 3560.6 | 3540.0 | 3323.4 | 3053.3 | 2975.2 | 2953.2 | 3201.4 | 3489.3 | 3707.3 | 4503.9 | 5554.1 |
| 40° | 4253.0 | 4205.0 | 4006.2 | 3777.2 | 3675.8 | 3611.3 | 3604.5 | 3978.8 | 4239.3 | 5174.3 | 6165.6 |
| 42.5° | 4749.3 | 4661.5 | 4420.2 | 4403.8 | 4381.8 | 4314.7 | 4120.0 | 4694.4 | 4926.1 | 5895.5 | 6819.6 |
| 45° | 5270.3 | 5137.3 | 4778.1 | 4716.4 | 4708.1 | 4704.0 | 4898.7 | 5541.7 | 5674.7 | 6677.0 | 7491.4 |
| 47.5° | 5674.7 | 5569.2 | 5274.4 | 5247.0 | 5281.2 | 5374.5 | 5928.4 | 6441.1 | 6413.7 | 7373.5 | 8054.9 |
| 50° | 6213.6 | 6134.0 | 5806.4 | 5858.5 | 6035.3 | 6187.5 | 7089.6 | 7421.4 | 7021.1 | 7921.9 | 8464.8 |
| 52.5° | 6849.7 | 6703.0 | 6398.6 | 6539.9 | 6811.3 | 7065.0 | 8322.2 | 8279.7 | 7447.5 | 8334.5 | 8770.5 |
| 55° | 7400.9 | 7296.7 | 7192.5 | 7339.2 | 7745.0 | 8061.7 | 9435.5 | 8922.7 | 7757.3 | 8666.3 | 8904.9 |
| 57.5° | 8333.2 | 8308.5 | 8201.6 | 8351.0 | 8843.2 | 9172.3 | 10432.2 | 9421.8 | 7956.1 | 8839.1 | 8747.2 |
| 60° | 9712.4 | 9672.7 | 9473.9 | 9664.5 | 10306.1 | 10823.0 | 11350.8 | 9870.1 | 8001.4 | 8771.9 | 8293.4 |
| 62.5° | 11371.4 | 11235.7 | 11065.7 | 11346.7 | 12226.9 | 12454.5 | 12216.0 | 10136.1 | 7832.7 | 8237.2 | 7199.3 |
| 65° | 12920.7 | 12780.8 | 12784.9 | 13377.2 | 14335.6 | 14490.5 | 13225.0 | 10096.3 | 7339.2 | 6897.7 | 5310.0 |
| 67.5° | 14106.6 | 14083.3 | 14250.6 | 15406.4 | 16659.5 | 16552.6 | 14127.2 | 9501.3 | 5876.3 | 4471.0 | 2821.6 |
| 70° | 14167.0 | 14212.2 | 14692.1 | 16643.0 | 17915.4 | 17745.4 | 14050.4 | 7723.1 | 3663.4 | 2056.6 | 1111.9 |
| 71° | 13437.6 | 13741.9 | 14405.5 | 16604.7 | 17989.4 | 17768.7 | 13403.3 | 6468.6 | 2687.2 | 1434.1 | 802.1 |
| 72.5° | 11450.9 | 11611.3 | 13045.4 | 15627.1 | 17404.0 | 16932.3 | 11762.1 | 4534.0 | 1720.7 | 877.5 | 460.7 |
| 75° | 6306.8 | 6701.6 | 8736.3 | 12259.8 | 13920.2 | 13506.1 | 7665.5 | 2153.9 | 858.3 | 479.9 | 190.6 |
| 77.5° | 3002.6 | 2925.8 | 4262.6 | 7291.2 | 9438.2 | 9416.3 | 3862.2 | 957.0 | 500.4 | 324.9 | 96.0 |
| 80° | 858.3 | 965.2 | 1631.5 | 3466.0 | 5240.1 | 5297.7 | 1483.5 | 462.0 | 346.9 | 253.6 | 49.4 |
| 82.5° | 259.1 | 264.6 | 599.1 | 1532.8 | 2606.3 | 2456.9 | 556.6 | 235.8 | 249.5 | 201.5 | 28.8 |
| 85° | 45.2 | 56.2 | 176.9 | 540.2 | 994.0 | 754.1 | 139.8 | 112.4 | 164.5 | 133.0 | 16.5 |
| 87.5° | 2.7 | 4.1 | 59.0 | 61.7 | 87.7 | 50.7 | 24.7 | 16.5 | 35.6 | 35.6 | 9.6 |
| 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° | 2872.3 | 2872.3 | 2872.3 | 2872.3 | 2872.3 | 2872.3 | 2872.3 | 2872.3 | 2872.3 | 2872.3 | 2872.3 |
| 2.5° | 2881.9 | 2890.2 | 2884.7 | 2872.3 | 2851.8 | 2827.1 | 2794.2 | 2766.8 | 2743.5 | 2731.1 | 2746.2 |
| 5° | 2899.7 | 2910.7 | 2883.3 | 2821.6 | 2728.4 | 2626.9 | 2511.7 | 2422.6 | 2352.7 | 2330.8 | 2322.5 |
| 7.5° | 2927.2 | 2934.0 | 2860.0 | 2722.9 | 2525.5 | 2285.5 | 2075.8 | 1898.9 | 1761.8 | 1720.7 | 1660.3 |
| 10° | 2962.8 | 2958.7 | 2818.9 | 2563.8 | 2217.0 | 1856.4 | 1531.5 | 1290.1 | 1107.8 | 1042.0 | 1036.5 |
| 12.5° | 3017.7 | 2995.7 | 2766.8 | 2347.2 | 1849.5 | 1377.9 | 976.2 | 763.7 | 648.5 | 610.1 | 601.9 |
| 15° | 3086.2 | 3034.1 | 2684.5 | 2093.6 | 1416.3 | 889.8 | 601.9 | 537.4 | 522.4 | 519.6 | 516.9 |
| 17.5° | 3167.1 | 3084.8 | 2576.2 | 1782.4 | 995.4 | 577.2 | 503.2 | 501.8 | 503.2 | 500.4 | 499.1 |
| 20° | 3276.8 | 3138.3 | 2447.3 | 1413.5 | 658.1 | 486.7 | 479.9 | 479.9 | 481.2 | 479.9 | 479.9 |
| 22.5° | 3393.3 | 3201.4 | 2288.3 | 1079.0 | 496.3 | 462.0 | 460.7 | 463.4 | 466.2 | 464.8 | 464.8 |
| 25° | 3537.3 | 3283.6 | 2078.5 | 739.0 | 444.2 | 441.5 | 442.8 | 448.3 | 453.8 | 455.2 | 453.8 |
| 27.5° | 3745.7 | 3385.1 | 1853.6 | 508.7 | 407.2 | 409.9 | 423.7 | 437.4 | 445.6 | 447.0 | 447.0 |
| 30° | 3980.1 | 3497.5 | 1560.2 | 412.7 | 377.0 | 377.0 | 393.5 | 419.5 | 437.4 | 440.1 | 441.5 |
| 32.5° | 4281.8 | 3627.8 | 1235.3 | 371.6 | 348.2 | 345.5 | 360.6 | 392.1 | 425.0 | 434.6 | 434.6 |
| 35° | 4654.7 | 3781.3 | 918.6 | 345.5 | 327.7 | 320.8 | 329.0 | 355.1 | 397.6 | 425.0 | 427.8 |
| 37.5° | 5092.0 | 3926.7 | 671.8 | 322.2 | 308.5 | 298.9 | 304.4 | 324.9 | 359.2 | 400.3 | 411.3 |
| 40° | 5496.5 | 4055.5 | 501.8 | 303.0 | 289.3 | 282.4 | 286.5 | 296.1 | 324.9 | 363.3 | 370.2 |
| 42.5° | 5938.0 | 4155.6 | 399.0 | 282.4 | 270.1 | 267.4 | 267.4 | 271.5 | 290.7 | 312.6 | 314.0 |
| 45° | 6378.1 | 4191.3 | 334.5 | 257.8 | 249.5 | 252.3 | 250.9 | 248.2 | 256.4 | 253.6 | 253.6 |
| 47.5° | 6692.0 | 4148.8 | 276.9 | 234.4 | 234.4 | 238.6 | 231.7 | 222.1 | 218.0 | 201.5 | 202.9 |
| 50° | 6907.3 | 3993.8 | 227.6 | 207.0 | 218.0 | 223.5 | 209.8 | 194.7 | 179.6 | 161.8 | 157.7 |
| 52.5° | 6996.4 | 3718.3 | 186.5 | 171.4 | 193.3 | 200.2 | 183.7 | 165.9 | 142.6 | 127.5 | 123.4 |
| 55° | 6938.8 | 3378.2 | 154.9 | 139.8 | 163.2 | 171.4 | 154.9 | 134.4 | 108.3 | 91.9 | 89.1 |
| 57.5° | 6685.2 | 2972.4 | 131.6 | 111.1 | 130.2 | 135.7 | 124.8 | 102.8 | 76.8 | 60.3 | 60.3 |
| 60° | 6246.5 | 2552.9 | 106.9 | 87.7 | 97.3 | 105.6 | 94.6 | 74.0 | 52.1 | 37.0 | 34.3 |
| 62.5° | 5356.7 | 2073.0 | 86.4 | 68.6 | 68.6 | 75.4 | 65.8 | 53.5 | 32.9 | 19.2 | 17.8 |
| 65° | 3867.7 | 1421.8 | 68.6 | 50.7 | 49.4 | 49.4 | 41.1 | 35.6 | 19.2 | 8.2 | 5.5 |
| 67.5° | 2101.8 | 802.1 | 54.8 | 38.4 | 34.3 | 32.9 | 26.0 | 20.6 | 8.2 | 1.4 | 0.0 |
| 70° | 826.7 | 308.5 | 42.5 | 26.0 | 21.9 | 20.6 | 13.7 | 9.6 | 5.5 | 0.0 | 0.0 |
| 71° | 560.8 | 212.5 | 37.0 | 21.9 | 17.8 | 15.1 | 11.0 | 8.2 | 4.1 | 0.0 | 0.0 |
| 72.5° | 320.8 | 131.6 | 28.8 | 16.5 | 13.7 | 11.0 | 8.2 | 5.5 | 4.1 | 0.0 | 0.0 |
| 75° | 139.8 | 67.2 | 17.8 | 12.3 | 9.6 | 6.9 | 5.5 | 4.1 | 1.4 | 0.0 | 0.0 |
| 77.5° | 71.3 | 37.0 | 12.3 | 9.6 | 5.5 | 4.1 | 2.7 | 1.4 | 0.0 | 0.0 | 0.0 |
| 80° | 39.8 | 19.2 | 8.2 | 5.5 | 4.1 | 2.7 | 1.4 | 1.4 | 0.0 | 0.0 | 0.0 |
| 82.5° | 21.9 | 11.0 | 4.1 | 2.7 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 13.7 | 6.9 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 6.9 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 1.4 | 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)