

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: P522714

Luminaire Tested: **GALN-SA3D-730-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522714
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3D-730-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21047 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

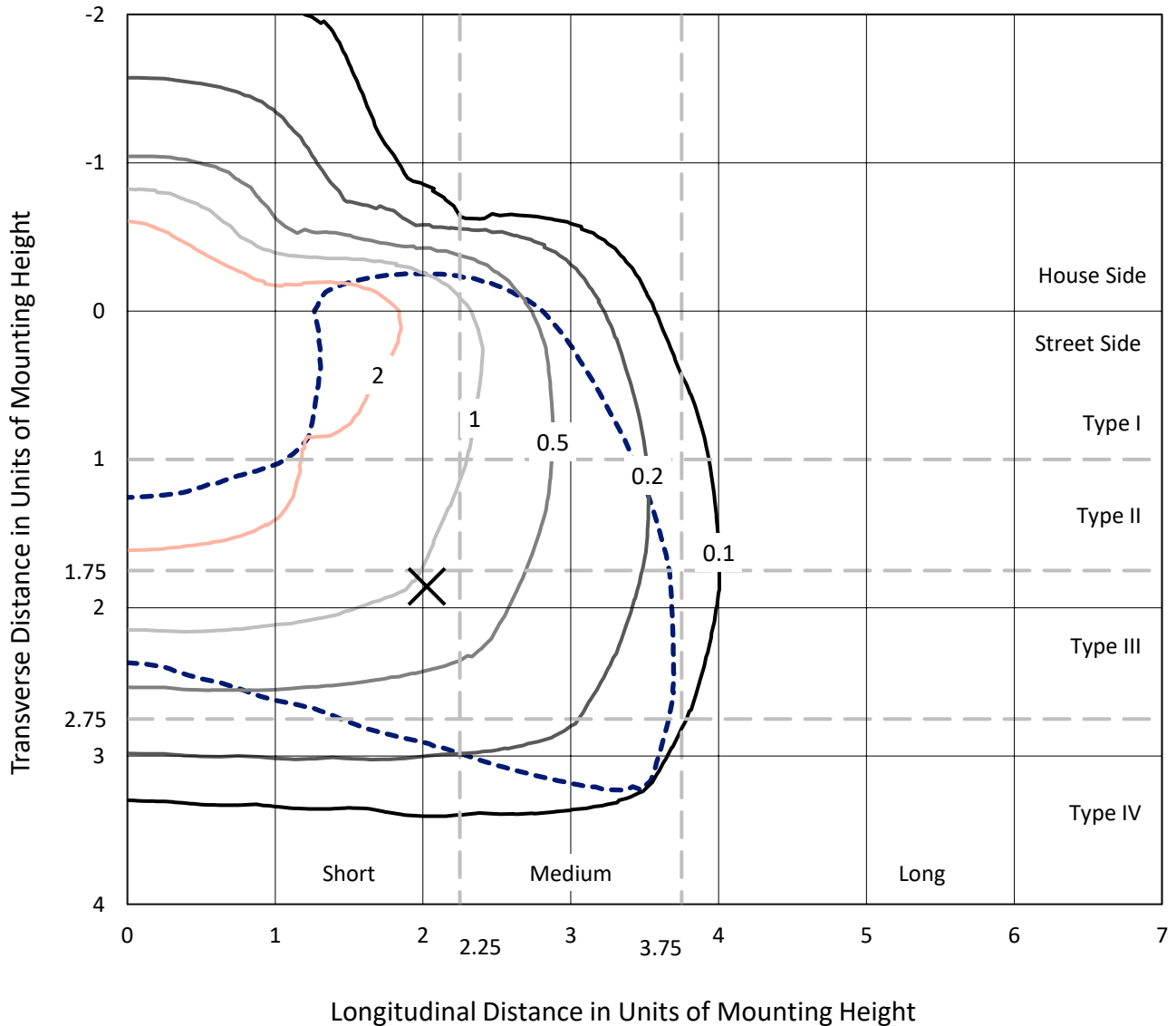
Input Watts (W): 184
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

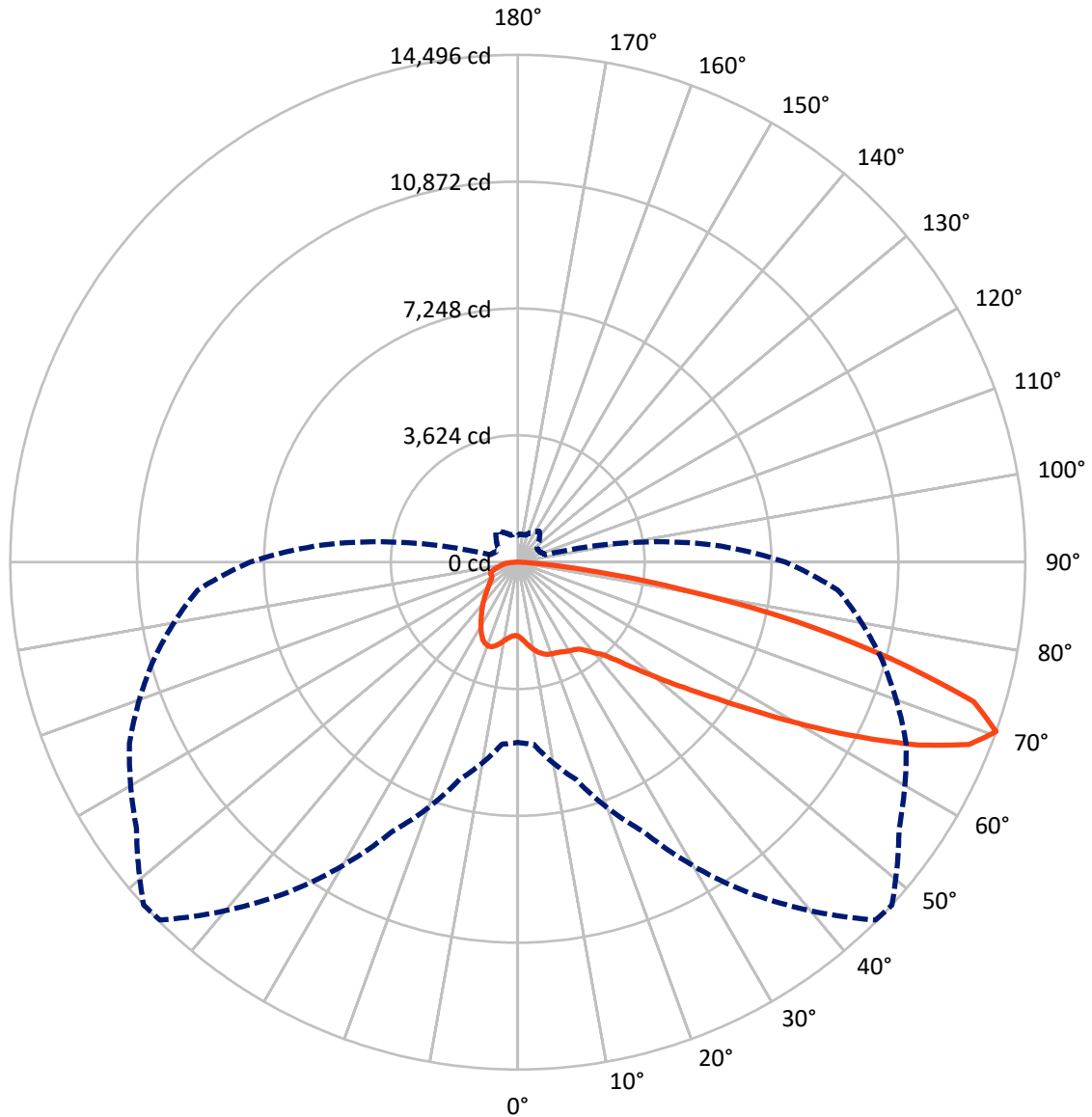
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4765.4 | 0.0 | 4765.4 |
| | % Fixture | 22.6 | 0.0 | 22.6 |
| Street Side | Lumens | 16281.6 | 0.0 | 16281.6 |
| | % Fixture | 77.4 | 0.0 | 77.4 |
| Total | Lumens | 21047.0 | 0.0 | 21047.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 217.8 | 1.0 |
| 10°-20° | 728.1 | 3.5 |
| 20°-30° | 1210.8 | 5.8 |
| 30°-40° | 1716.1 | 8.2 |
| 40°-50° | 2533.4 | 12.0 |
| 50°-60° | 4388.0 | 20.8 |
| 60°-70° | 6198.1 | 29.4 |
| 70°-80° | 3563.0 | 16.9 |
| 80°-90° | 491.6 | 2.3 |
| 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° | 21047.0 | 100.0 |
| 0°-180° | 21047.0 | 100.0 |

Coefficient of Utilization



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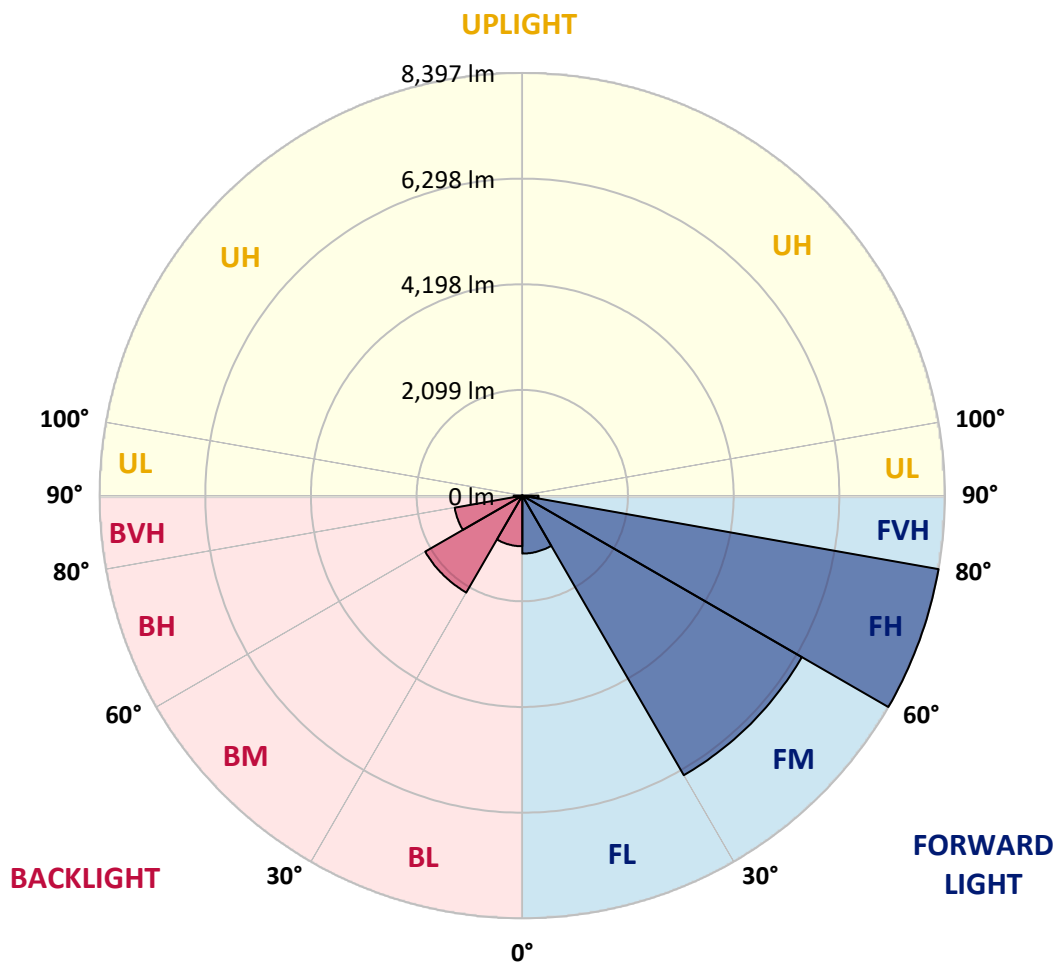
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 1150.9 | 5.5 | | | |
| FM | (30°-60°) | 6412.6 | 30.5 | | | |
| FH | (60°-80°) | 8396.9 | 39.9 | | | G4/12000 |
| FVH | (80°-90°) | 321.1 | 1.5 | | | G3/500 |
| BL | (0°-30°) | 1005.8 | 4.8 | B3/2500 | | |
| BM | (30°-60°) | 2224.9 | 10.6 | B2/2500 | | |
| BH | (60°-80°) | 1364.3 | 6.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 170.5 | 0.8 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 47.5° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2112.9 | 2112.9 | 2112.9 | 2112.9 | 2112.9 | 2112.9 | 2112.9 | 2112.9 | 2112.9 | 2112.9 | 2112.9 |
| 2.5° | 2249.1 | 2241.3 | 2240.1 | 2223.2 | 2214.2 | 2197.3 | 2190.6 | 2174.8 | 2155.7 | 2136.5 | 2118.5 |
| 5° | 2426.0 | 2426.0 | 2418.1 | 2394.4 | 2357.3 | 2319.0 | 2302.1 | 2271.7 | 2217.6 | 2173.7 | 2136.5 |
| 7.5° | 2607.3 | 2609.5 | 2593.8 | 2558.9 | 2505.9 | 2444.0 | 2428.2 | 2383.2 | 2306.6 | 2242.4 | 2187.2 |
| 10° | 2763.8 | 2763.8 | 2742.4 | 2695.1 | 2628.7 | 2561.1 | 2545.3 | 2494.7 | 2409.1 | 2329.1 | 2257.0 |
| 12.5° | 2883.2 | 2883.2 | 2855.1 | 2793.1 | 2721.0 | 2660.2 | 2642.2 | 2593.8 | 2513.8 | 2424.8 | 2333.6 |
| 15° | 2960.9 | 2955.3 | 2923.8 | 2853.9 | 2784.1 | 2731.2 | 2718.8 | 2678.2 | 2605.0 | 2514.9 | 2412.5 |
| 17.5° | 2964.3 | 2962.1 | 2931.7 | 2873.1 | 2812.3 | 2776.2 | 2768.3 | 2741.3 | 2683.9 | 2598.3 | 2490.2 |
| 20° | 2899.0 | 2903.5 | 2883.2 | 2841.6 | 2812.3 | 2796.5 | 2793.1 | 2784.1 | 2743.6 | 2663.6 | 2555.5 |
| 22.5° | 2829.2 | 2837.1 | 2817.9 | 2795.4 | 2793.1 | 2808.9 | 2811.1 | 2813.4 | 2787.5 | 2709.8 | 2610.7 |
| 25° | 2812.3 | 2817.9 | 2798.8 | 2778.5 | 2790.9 | 2832.5 | 2841.6 | 2850.6 | 2830.3 | 2765.0 | 2676.0 |
| 27.5° | 2897.9 | 2893.4 | 2856.2 | 2812.3 | 2820.2 | 2876.5 | 2888.9 | 2899.0 | 2888.9 | 2832.5 | 2757.1 |
| 30° | 3140.0 | 3125.4 | 3051.0 | 2922.6 | 2882.1 | 2921.5 | 2933.9 | 2962.1 | 2962.1 | 2920.4 | 2844.9 |
| 32.5° | 3545.5 | 3517.3 | 3381.0 | 3128.8 | 2988.0 | 2964.3 | 2976.7 | 3022.9 | 3046.5 | 3013.9 | 2931.7 |
| 35° | 4037.6 | 4008.4 | 3813.5 | 3474.5 | 3181.7 | 3049.9 | 3046.5 | 3098.3 | 3161.4 | 3088.2 | 2981.2 |
| 37.5° | 4532.1 | 4501.7 | 4267.4 | 3886.7 | 3464.4 | 3230.1 | 3209.8 | 3227.9 | 3254.9 | 3120.9 | 3049.9 |
| 40° | 5026.5 | 4990.5 | 4785.5 | 4347.4 | 3810.1 | 3468.9 | 3415.9 | 3334.9 | 3323.6 | 3227.9 | 3182.8 |
| 42.5° | 5516.4 | 5483.8 | 5380.1 | 4864.3 | 4224.6 | 3702.0 | 3620.9 | 3481.3 | 3524.1 | 3466.6 | 3427.2 |
| 45° | 6010.9 | 6013.1 | 5902.7 | 5444.3 | 4724.7 | 4132.3 | 4023.0 | 3804.5 | 3905.9 | 3884.5 | 3907.0 |
| 47.5° | 6449.0 | 6443.3 | 6403.9 | 6007.5 | 5345.2 | 4686.4 | 4545.6 | 4292.2 | 4465.6 | 4544.5 | 4716.8 |
| 50° | 6873.6 | 6870.2 | 6872.4 | 6646.1 | 6066.0 | 5345.2 | 5189.8 | 4924.0 | 5314.8 | 5588.5 | 5897.1 |
| 52.5° | 7481.8 | 7500.9 | 7364.6 | 7304.9 | 6942.3 | 6123.5 | 5952.3 | 5677.5 | 6318.3 | 6749.7 | 7352.2 |
| 55° | 8092.2 | 8076.4 | 7969.4 | 8031.4 | 7859.0 | 7044.8 | 6865.7 | 6647.2 | 7435.6 | 7907.5 | 8813.0 |
| 57.5° | 8451.5 | 8457.1 | 8566.3 | 8869.3 | 8990.9 | 8193.5 | 8031.4 | 7862.4 | 8691.4 | 9025.9 | 10112.7 |
| 60° | 8774.7 | 8800.6 | 9114.8 | 9687.0 | 10017.0 | 9604.8 | 9460.6 | 9296.2 | 9843.5 | 9976.4 | 11241.2 |
| 62.5° | 8876.1 | 8956.0 | 9504.5 | 10360.5 | 11017.1 | 11197.3 | 11018.2 | 10655.6 | 10940.5 | 10888.7 | 12005.9 |
| 65° | 8370.4 | 8479.6 | 9462.8 | 10612.8 | 11910.2 | 12708.7 | 12595.0 | 11921.5 | 11875.3 | 11563.3 | 12131.0 |
| 67.5° | 7039.1 | 7148.4 | 8410.9 | 10083.4 | 12279.6 | 14017.4 | 13903.7 | 12845.0 | 12442.9 | 11626.4 | 11184.9 |
| 70° | 5150.4 | 5219.1 | 6426.4 | 8489.8 | 11537.4 | 14456.7 | 14496.1 | 13295.5 | 12240.2 | 10769.3 | 9183.5 |
| 72.5° | 2967.7 | 3119.7 | 3965.6 | 5972.6 | 9425.7 | 13346.2 | 13619.9 | 12358.5 | 10958.5 | 8984.2 | 6420.8 |
| 75° | 1276.1 | 1279.4 | 1833.6 | 3294.3 | 6383.6 | 10727.6 | 10992.3 | 10244.5 | 8605.8 | 6212.5 | 3428.3 |
| 77.5° | 607.1 | 618.3 | 806.4 | 1470.9 | 3513.9 | 7411.9 | 8126.0 | 7237.4 | 5504.0 | 2984.6 | 1295.2 |
| 80° | 394.2 | 402.1 | 493.3 | 729.8 | 1723.2 | 4297.8 | 4795.6 | 4175.0 | 2428.2 | 1066.6 | 558.6 |
| 82.5° | 238.8 | 241.0 | 330.0 | 446.0 | 948.3 | 1946.2 | 2294.2 | 1812.2 | 1036.2 | 638.6 | 328.9 |
| 85° | 145.3 | 146.4 | 200.5 | 275.9 | 575.5 | 672.4 | 690.4 | 684.8 | 608.2 | 417.8 | 175.7 |
| 87.5° | 69.8 | 72.1 | 103.6 | 130.6 | 226.4 | 208.4 | 197.1 | 228.6 | 287.2 | 225.3 | 75.5 |
| 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° | 2112.9 | 2112.9 | 2112.9 | 2112.9 | 2112.9 | 2112.9 | 2112.9 | 2112.9 | 2112.9 | 2112.9 | 2112.9 |
| 2.5° | 2110.6 | 2107.2 | 2099.4 | 2096.0 | 2093.7 | 2094.8 | 2093.7 | 2093.7 | 2094.8 | 2094.8 | 2094.8 |
| 5° | 2120.7 | 2115.1 | 2102.7 | 2102.7 | 2109.5 | 2125.3 | 2139.9 | 2151.2 | 2163.5 | 2162.4 | 2162.4 |
| 7.5° | 2164.7 | 2154.5 | 2139.9 | 2144.4 | 2161.3 | 2186.1 | 2212.0 | 2236.8 | 2261.5 | 2263.8 | 2262.7 |
| 10° | 2228.9 | 2218.7 | 2203.0 | 2208.6 | 2235.6 | 2272.8 | 2305.5 | 2341.5 | 2368.5 | 2376.4 | 2374.2 |
| 12.5° | 2302.1 | 2281.8 | 2268.3 | 2284.1 | 2326.9 | 2376.4 | 2407.9 | 2435.0 | 2454.1 | 2465.4 | 2460.9 |
| 15° | 2376.4 | 2357.3 | 2341.5 | 2374.2 | 2426.0 | 2472.1 | 2487.9 | 2492.4 | 2495.8 | 2507.1 | 2504.8 |
| 17.5° | 2448.5 | 2422.6 | 2417.0 | 2459.8 | 2509.3 | 2529.6 | 2520.6 | 2501.4 | 2486.8 | 2495.8 | 2494.7 |
| 20° | 2512.7 | 2492.4 | 2490.2 | 2533.0 | 2552.1 | 2533.0 | 2494.7 | 2460.9 | 2435.0 | 2437.2 | 2436.1 |
| 22.5° | 2573.5 | 2557.7 | 2560.0 | 2578.0 | 2547.6 | 2482.3 | 2419.2 | 2373.0 | 2344.9 | 2350.5 | 2353.9 |
| 25° | 2641.1 | 2625.3 | 2630.9 | 2601.7 | 2501.4 | 2387.7 | 2296.4 | 2257.0 | 2245.8 | 2257.0 | 2264.9 |
| 27.5° | 2728.9 | 2718.8 | 2715.4 | 2602.8 | 2419.2 | 2248.0 | 2144.4 | 2129.8 | 2139.9 | 2164.7 | 2177.1 |
| 30° | 2823.5 | 2823.5 | 2805.5 | 2583.6 | 2306.6 | 2080.2 | 1990.1 | 1992.4 | 2027.3 | 2062.2 | 2074.6 |
| 32.5° | 2914.8 | 2933.9 | 2877.6 | 2531.8 | 2161.3 | 1916.9 | 1848.2 | 1850.4 | 1880.9 | 1923.7 | 1934.9 |
| 35° | 2990.2 | 3045.4 | 2939.5 | 2437.2 | 1990.1 | 1779.5 | 1727.7 | 1697.3 | 1698.4 | 1731.1 | 1740.1 |
| 37.5° | 3093.8 | 3196.3 | 2975.6 | 2296.4 | 1807.6 | 1662.4 | 1603.8 | 1550.9 | 1515.9 | 1502.4 | 1502.4 |
| 40° | 3274.0 | 3425.0 | 2984.6 | 2088.1 | 1635.3 | 1550.9 | 1467.5 | 1404.4 | 1336.9 | 1276.1 | 1264.8 |
| 42.5° | 3579.3 | 3769.6 | 2966.6 | 1848.2 | 1479.9 | 1428.1 | 1347.0 | 1269.3 | 1175.8 | 1090.2 | 1083.5 |
| 45° | 4119.9 | 4217.8 | 2918.1 | 1599.3 | 1341.4 | 1309.8 | 1231.0 | 1146.5 | 1047.4 | 970.8 | 965.2 |
| 47.5° | 4986.0 | 4847.4 | 2853.9 | 1378.5 | 1215.2 | 1206.2 | 1145.4 | 1047.4 | 948.3 | 895.4 | 889.7 |
| 50° | 6250.7 | 5838.5 | 2844.9 | 1218.6 | 1113.9 | 1118.4 | 1068.8 | 978.7 | 892.0 | 848.1 | 841.3 |
| 52.5° | 7773.5 | 7035.8 | 2904.6 | 1106.0 | 1024.9 | 1041.8 | 1017.0 | 933.7 | 857.1 | 819.9 | 813.2 |
| 55° | 9251.1 | 8112.5 | 2940.7 | 1018.1 | 941.6 | 973.1 | 976.5 | 906.6 | 836.8 | 799.6 | 795.1 |
| 57.5° | 10450.6 | 8923.4 | 2780.7 | 938.2 | 869.5 | 917.9 | 942.7 | 890.9 | 826.7 | 798.5 | 794.0 |
| 60° | 11285.1 | 9306.3 | 2325.7 | 867.2 | 816.5 | 874.0 | 930.3 | 892.0 | 851.5 | 854.8 | 857.1 |
| 62.5° | 11550.9 | 9136.2 | 1744.6 | 814.3 | 780.5 | 859.3 | 950.6 | 938.2 | 896.5 | 922.4 | 926.9 |
| 65° | 11110.6 | 8433.4 | 1264.8 | 772.6 | 749.0 | 869.5 | 1011.4 | 972.0 | 880.7 | 899.9 | 899.9 |
| 67.5° | 9636.3 | 7265.5 | 984.4 | 734.3 | 712.9 | 888.6 | 1072.2 | 968.6 | 843.6 | 866.1 | 845.8 |
| 70° | 7643.9 | 5620.0 | 819.9 | 691.5 | 674.6 | 860.5 | 1077.8 | 933.7 | 799.6 | 804.2 | 765.9 |
| 72.5° | 5072.7 | 3695.3 | 705.0 | 651.0 | 616.1 | 773.7 | 1031.7 | 888.6 | 756.8 | 730.9 | 692.7 |
| 75° | 2485.7 | 1842.6 | 614.9 | 600.3 | 539.5 | 673.5 | 968.6 | 845.8 | 710.7 | 670.1 | 648.7 |
| 77.5° | 963.0 | 783.9 | 524.8 | 536.1 | 469.7 | 593.5 | 885.2 | 785.0 | 649.9 | 594.7 | 577.8 |
| 80° | 467.4 | 444.9 | 430.2 | 447.1 | 386.3 | 505.7 | 808.7 | 732.1 | 593.5 | 532.7 | 507.9 |
| 82.5° | 290.6 | 274.8 | 330.0 | 348.0 | 297.3 | 461.8 | 767.0 | 687.0 | 522.6 | 441.5 | 421.2 |
| 85° | 147.5 | 157.7 | 220.7 | 237.6 | 212.9 | 367.2 | 631.8 | 515.8 | 377.3 | 313.1 | 315.4 |
| 87.5° | 56.3 | 75.5 | 116.0 | 125.0 | 113.8 | 193.7 | 348.0 | 300.7 | 242.1 | 164.4 | 152.0 |
| 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)