

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: P951990

Luminaire Tested: **GALN-SB6A-722-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951990
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6A-722-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22427 lumens
Efficiency: N/A
Efficacy: 131.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

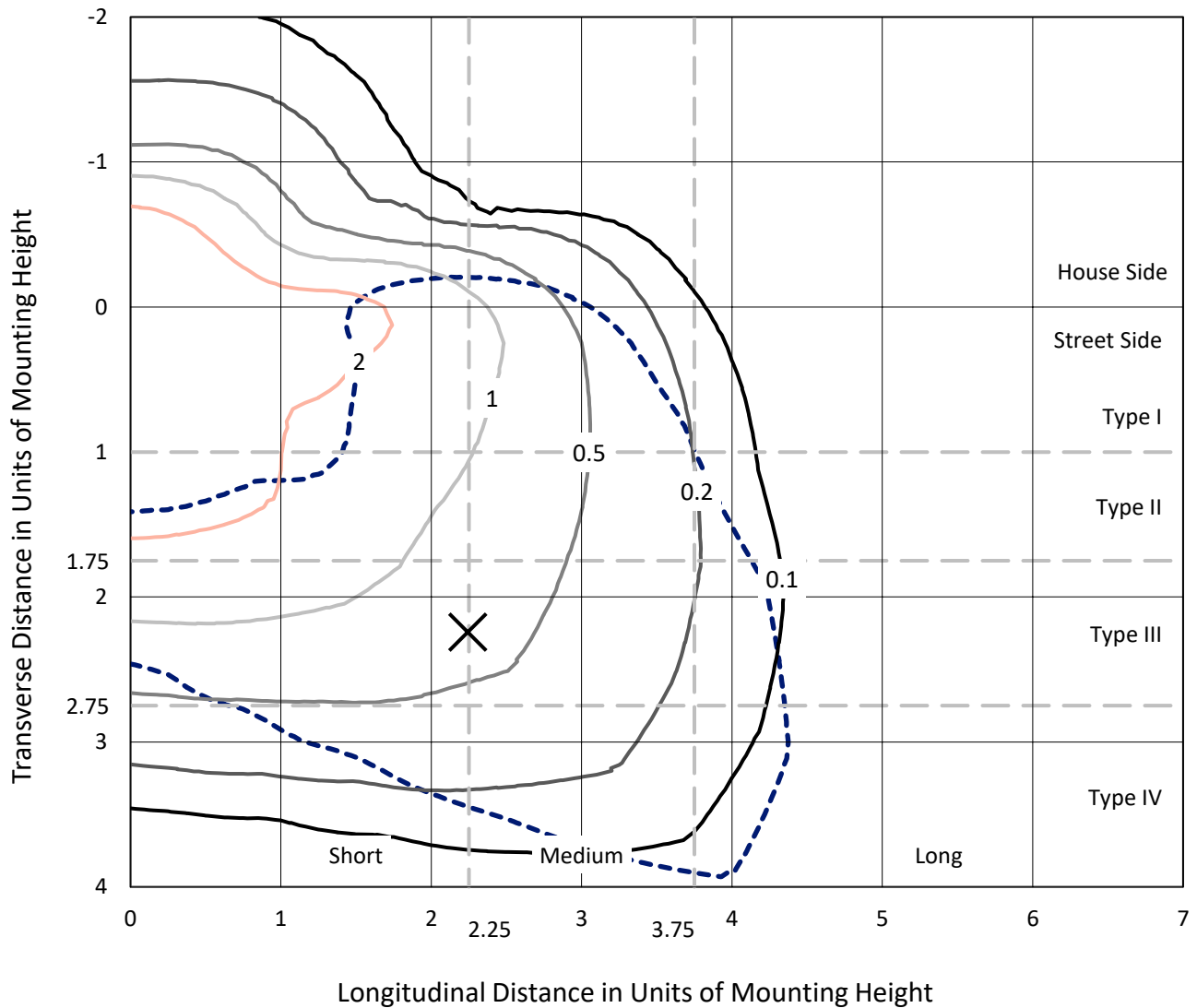
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

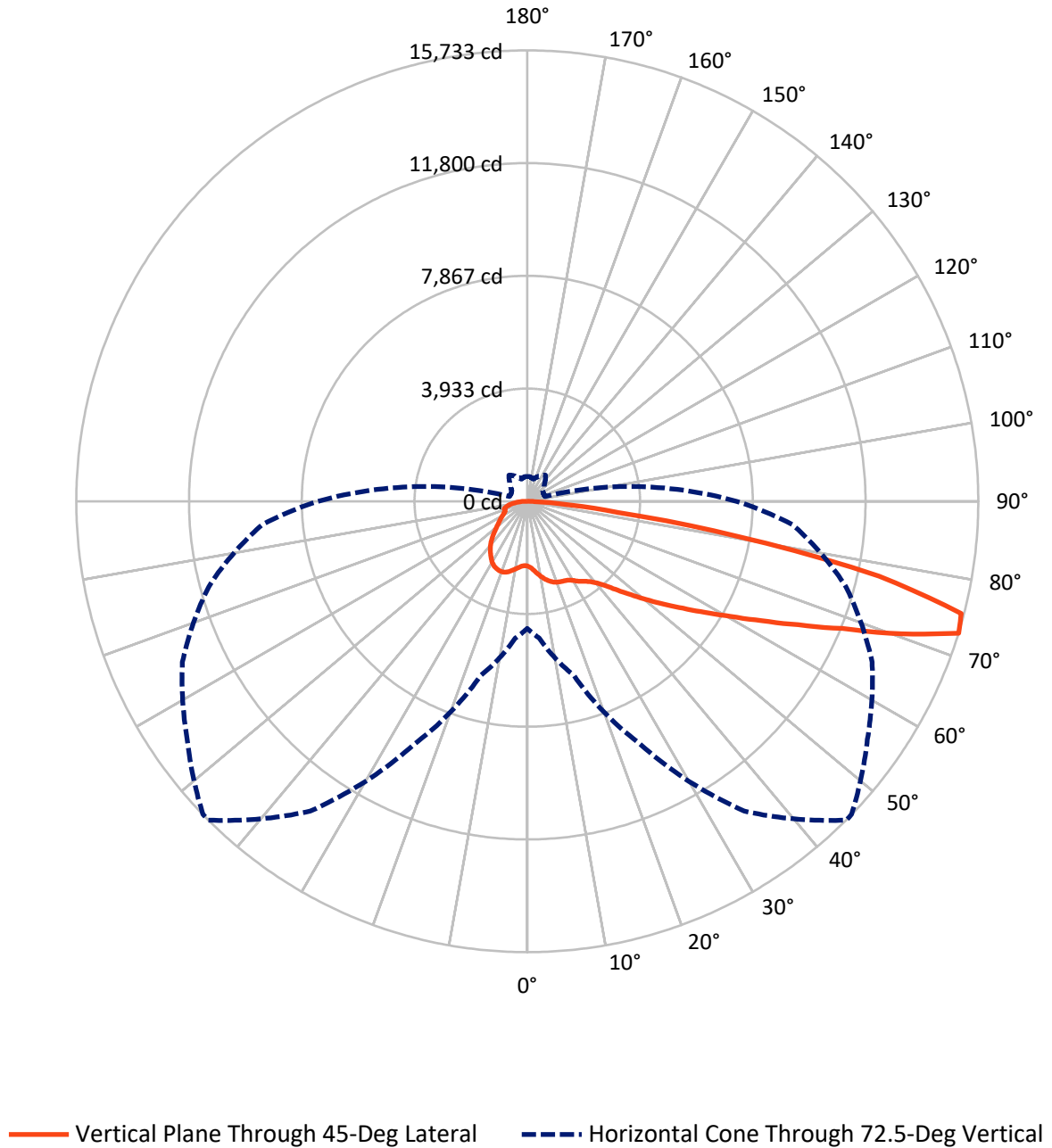
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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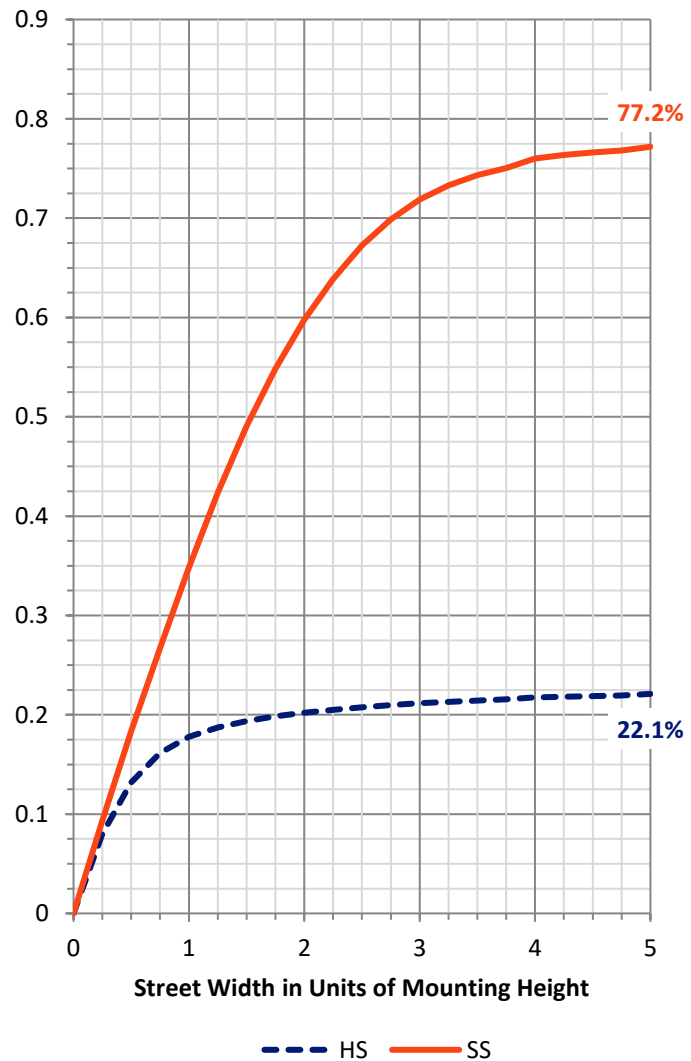
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5070.0 | 0.0 | 5070.0 |
| | % Fixture | 22.6 | 0.0 | 22.6 |
| Street Side | Lumens | 17357.0 | 0.0 | 17357.0 |
| | % Fixture | 77.4 | 0.0 | 77.4 |
| Total | Lumens | 22427.0 | 0.0 | 22427.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 230.3 | 1.0 |
| 10°-20° | 767.8 | 3.4 |
| 20°-30° | 1335.6 | 6.0 |
| 30°-40° | 1914.6 | 8.5 |
| 40°-50° | 2695.9 | 12.0 |
| 50°-60° | 4129.3 | 18.4 |
| 60°-70° | 5981.9 | 26.7 |
| 70°-80° | 4776.9 | 21.3 |
| 80°-90° | 594.9 | 2.7 |
| 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° | 22427.0 | 100.0 |
| 0°-180° | 22427.0 | 100.0 |



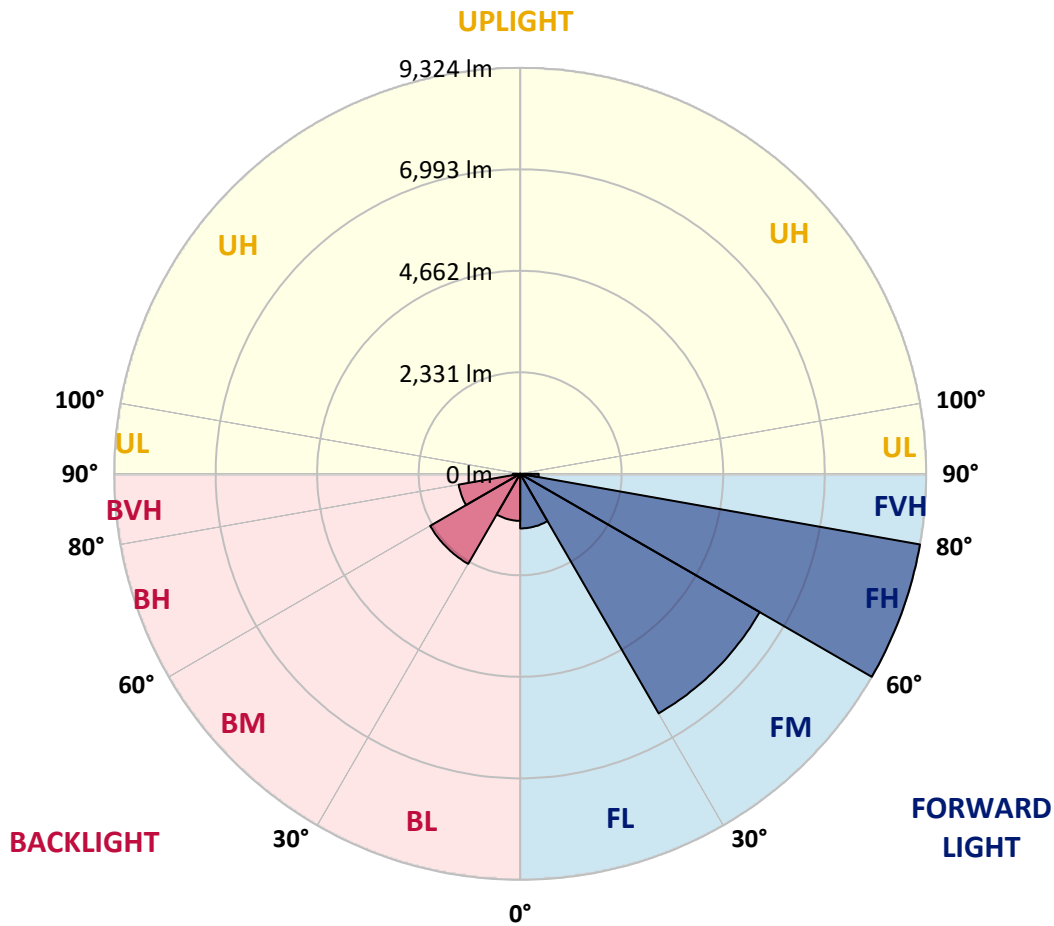
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1254.2 | 5.6 | | | |
| FM (30°-60°) | 6352.5 | 28.3 | | | |
| FH (60°-80°) | 9323.6 | 41.6 | | | G4/12000 |
| FVH (80°-90°) | 426.8 | 1.9 | | | G3/500 |
| BL (0°-30°) | 1079.4 | 4.8 | B3/2500 | | |
| BM (30°-60°) | 2387.2 | 10.6 | B2/2500 | | |
| BH (60°-80°) | 1435.2 | 6.4 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 168.1 | 0.7 | | | 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° | 46° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2262.4 | 2262.4 | 2262.4 | 2262.4 | 2262.4 | 2262.4 | 2262.4 | 2262.4 | 2262.4 | 2262.4 | 2262.4 |
| 2.5° | 2351.1 | 2366.4 | 2352.2 | 2339.2 | 2333.3 | 2318.0 | 2316.8 | 2307.3 | 2301.4 | 2284.9 | 2280.2 |
| 5° | 2515.3 | 2535.4 | 2511.7 | 2485.7 | 2462.1 | 2424.3 | 2419.6 | 2392.4 | 2361.7 | 2326.2 | 2306.2 |
| 7.5° | 2700.8 | 2718.5 | 2691.3 | 2652.3 | 2611.0 | 2548.4 | 2547.2 | 2497.6 | 2449.1 | 2388.9 | 2354.6 |
| 10° | 2862.6 | 2886.2 | 2849.6 | 2796.5 | 2744.5 | 2673.6 | 2665.3 | 2608.6 | 2547.2 | 2469.2 | 2417.2 |
| 12.5° | 3005.6 | 3022.1 | 2986.7 | 2921.7 | 2861.4 | 2790.5 | 2779.9 | 2717.3 | 2648.8 | 2560.2 | 2494.0 |
| 15° | 3119.0 | 3140.3 | 3093.0 | 3023.3 | 2959.5 | 2889.8 | 2880.3 | 2823.6 | 2755.1 | 2661.8 | 2576.7 |
| 17.5° | 3193.4 | 3211.1 | 3162.7 | 3084.7 | 3023.3 | 2965.4 | 2958.3 | 2911.1 | 2850.8 | 2756.3 | 2665.3 |
| 20° | 3221.8 | 3240.7 | 3189.9 | 3110.7 | 3054.0 | 3009.1 | 3005.6 | 2971.3 | 2930.0 | 2843.7 | 2751.6 |
| 22.5° | 3250.1 | 3267.8 | 3201.7 | 3119.0 | 3069.4 | 3041.0 | 3039.8 | 3017.4 | 3000.8 | 2930.0 | 2840.2 |
| 25° | 3364.7 | 3369.5 | 3280.8 | 3161.5 | 3090.6 | 3065.8 | 3064.6 | 3063.5 | 3070.5 | 3015.0 | 2935.9 |
| 27.5° | 3464.0 | 3462.8 | 3387.2 | 3274.9 | 3165.1 | 3113.1 | 3111.9 | 3123.7 | 3146.2 | 3100.1 | 3035.1 |
| 30° | 3609.3 | 3596.3 | 3506.5 | 3389.5 | 3289.1 | 3208.8 | 3201.7 | 3191.1 | 3208.8 | 3172.2 | 3134.3 |
| 32.5° | 3917.6 | 3876.3 | 3731.0 | 3523.0 | 3391.9 | 3330.5 | 3321.0 | 3254.9 | 3261.9 | 3239.5 | 3220.6 |
| 35° | 4359.5 | 4305.1 | 4111.4 | 3775.9 | 3519.5 | 3432.1 | 3427.3 | 3343.5 | 3329.3 | 3309.2 | 3316.3 |
| 37.5° | 4885.2 | 4817.9 | 4592.2 | 4142.1 | 3739.2 | 3550.2 | 3543.1 | 3467.5 | 3409.6 | 3388.4 | 3428.5 |
| 40° | 5413.3 | 5328.3 | 5141.6 | 4588.7 | 4063.0 | 3747.5 | 3725.1 | 3610.5 | 3544.3 | 3508.9 | 3593.9 |
| 42.5° | 5926.1 | 5855.2 | 5695.7 | 5089.6 | 4462.3 | 4035.8 | 3986.2 | 3790.0 | 3740.4 | 3707.3 | 3860.9 |
| 45° | 6379.7 | 6316.0 | 6199.0 | 5624.8 | 4930.1 | 4428.0 | 4379.6 | 4059.4 | 4044.1 | 4044.1 | 4266.2 |
| 47.5° | 6748.4 | 6734.2 | 6610.1 | 6170.6 | 5481.9 | 4874.6 | 4790.7 | 4433.9 | 4475.3 | 4539.1 | 4841.5 |
| 50° | 7157.1 | 7118.1 | 6985.8 | 6708.2 | 6130.5 | 5386.2 | 5317.6 | 4893.5 | 5048.3 | 5223.1 | 5673.3 |
| 52.5° | 7532.8 | 7554.1 | 7406.4 | 7268.2 | 6863.0 | 5956.8 | 5836.3 | 5435.8 | 5770.1 | 6059.6 | 6647.9 |
| 55° | 7919.2 | 7920.3 | 7879.0 | 7860.1 | 7630.9 | 6587.7 | 6455.4 | 6087.9 | 6619.6 | 6978.7 | 7784.5 |
| 57.5° | 8281.9 | 8284.2 | 8345.7 | 8512.2 | 8521.7 | 7315.4 | 7165.4 | 6888.9 | 7563.5 | 7929.8 | 8956.5 |
| 60° | 8605.6 | 8622.1 | 8789.9 | 9179.7 | 9305.0 | 8149.5 | 8007.8 | 7835.3 | 8539.4 | 8908.0 | 10188.7 |
| 62.5° | 8714.3 | 8774.5 | 9147.9 | 9701.9 | 10078.8 | 9172.7 | 9033.3 | 8930.5 | 9564.9 | 9907.5 | 11218.9 |
| 65° | 8530.0 | 8668.2 | 9390.0 | 10133.2 | 10875.1 | 10388.4 | 10250.1 | 10137.9 | 10630.6 | 10953.1 | 12064.8 |
| 67.5° | 8077.5 | 8255.9 | 9375.9 | 10585.7 | 11841.5 | 11851.0 | 11722.2 | 11458.7 | 11773.0 | 11897.0 | 12340.1 |
| 70° | 6885.4 | 7152.4 | 8550.0 | 10754.6 | 12950.9 | 13851.1 | 13727.1 | 13048.9 | 12913.1 | 12312.9 | 11565.1 |
| 72.5° | 4436.3 | 4795.4 | 6295.9 | 9364.1 | 13197.8 | 15733.2 | 15726.1 | 14484.4 | 13273.4 | 11504.8 | 9275.4 |
| 75° | 1618.6 | 1838.3 | 2925.2 | 5877.6 | 11078.3 | 15637.5 | 15683.5 | 14238.7 | 12116.8 | 8886.8 | 5778.4 |
| 77.5° | 589.5 | 645.1 | 954.6 | 2258.9 | 6813.3 | 12546.8 | 12642.5 | 11383.1 | 8624.5 | 4459.9 | 2289.6 |
| 80° | 309.5 | 340.3 | 489.1 | 876.6 | 2919.3 | 7451.3 | 7601.4 | 6764.9 | 4053.5 | 1343.3 | 686.4 |
| 82.5° | 171.3 | 185.5 | 274.1 | 476.1 | 1314.9 | 3186.3 | 3276.1 | 2672.4 | 1426.0 | 569.5 | 283.5 |
| 85° | 92.2 | 98.1 | 128.8 | 259.9 | 642.7 | 1104.6 | 1129.5 | 798.6 | 568.3 | 334.3 | 137.0 |
| 87.5° | 27.2 | 33.1 | 42.5 | 82.7 | 251.6 | 248.1 | 254.0 | 158.3 | 224.5 | 168.9 | 44.9 |
| 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° | 2262.4 | 2262.4 | 2262.4 | 2262.4 | 2262.4 | 2262.4 | 2262.4 | 2262.4 | 2262.4 | 2262.4 | 2262.4 |
| 2.5° | 2273.1 | 2269.5 | 2256.5 | 2250.6 | 2243.5 | 2242.4 | 2248.3 | 2249.5 | 2250.6 | 2251.8 | 2256.5 |
| 5° | 2294.3 | 2282.5 | 2270.7 | 2263.6 | 2266.0 | 2267.2 | 2279.0 | 2287.3 | 2293.2 | 2297.9 | 2300.3 |
| 7.5° | 2335.7 | 2326.2 | 2306.2 | 2305.0 | 2308.5 | 2319.2 | 2334.5 | 2353.4 | 2364.1 | 2372.3 | 2374.7 |
| 10° | 2397.1 | 2379.4 | 2355.8 | 2359.3 | 2366.4 | 2381.8 | 2413.7 | 2429.0 | 2446.8 | 2462.1 | 2458.6 |
| 12.5° | 2459.7 | 2444.4 | 2417.2 | 2419.6 | 2431.4 | 2458.6 | 2489.3 | 2508.2 | 2520.0 | 2531.8 | 2536.5 |
| 15° | 2541.3 | 2514.1 | 2484.6 | 2484.6 | 2505.8 | 2535.4 | 2549.5 | 2564.9 | 2572.0 | 2585.0 | 2589.7 |
| 17.5° | 2625.1 | 2589.7 | 2550.7 | 2548.4 | 2574.3 | 2588.5 | 2596.8 | 2599.2 | 2601.5 | 2615.7 | 2620.4 |
| 20° | 2709.0 | 2670.0 | 2614.5 | 2609.8 | 2615.7 | 2613.3 | 2612.2 | 2609.8 | 2613.3 | 2631.1 | 2638.1 |
| 22.5° | 2791.7 | 2746.8 | 2670.0 | 2648.8 | 2632.2 | 2609.8 | 2608.6 | 2607.4 | 2609.8 | 2627.5 | 2639.3 |
| 25° | 2888.6 | 2834.3 | 2731.5 | 2667.7 | 2612.2 | 2581.4 | 2585.0 | 2586.2 | 2588.5 | 2602.7 | 2621.6 |
| 27.5° | 2993.8 | 2933.5 | 2788.2 | 2661.8 | 2561.4 | 2540.1 | 2534.2 | 2537.7 | 2546.0 | 2568.4 | 2590.9 |
| 30° | 3098.9 | 3028.0 | 2840.2 | 2638.1 | 2497.6 | 2468.0 | 2449.1 | 2457.4 | 2483.4 | 2505.8 | 2530.6 |
| 32.5° | 3194.6 | 3123.7 | 2881.5 | 2586.2 | 2416.0 | 2370.0 | 2345.1 | 2355.8 | 2381.8 | 2390.0 | 2419.6 |
| 35° | 3306.8 | 3226.5 | 2899.2 | 2503.5 | 2327.4 | 2256.5 | 2223.5 | 2208.1 | 2221.1 | 2212.8 | 2238.8 |
| 37.5° | 3432.1 | 3348.2 | 2896.9 | 2394.8 | 2223.5 | 2141.9 | 2095.9 | 2038.0 | 2010.8 | 1982.4 | 2000.2 |
| 40° | 3617.6 | 3497.0 | 2868.5 | 2263.6 | 2094.7 | 2020.3 | 1937.6 | 1839.5 | 1778.1 | 1722.5 | 1726.1 |
| 42.5° | 3870.4 | 3703.8 | 2816.5 | 2119.5 | 1949.4 | 1879.7 | 1767.4 | 1652.8 | 1555.9 | 1463.8 | 1455.5 |
| 45° | 4247.3 | 3974.3 | 2751.6 | 1965.9 | 1792.2 | 1723.7 | 1602.0 | 1473.2 | 1363.4 | 1245.2 | 1231.1 |
| 47.5° | 4790.7 | 4338.2 | 2690.1 | 1791.1 | 1626.8 | 1564.2 | 1454.3 | 1335.0 | 1205.1 | 1090.5 | 1077.5 |
| 50° | 5537.4 | 4860.4 | 2633.4 | 1620.9 | 1463.8 | 1416.5 | 1329.1 | 1207.4 | 1076.3 | 984.1 | 978.2 |
| 52.5° | 6487.3 | 5570.5 | 2609.8 | 1456.7 | 1311.4 | 1293.7 | 1224.0 | 1110.5 | 986.5 | 908.5 | 902.6 |
| 55° | 7577.7 | 6419.9 | 2609.8 | 1299.6 | 1177.9 | 1183.8 | 1135.4 | 1030.2 | 922.7 | 853.0 | 845.9 |
| 57.5° | 8690.6 | 7280.0 | 2562.5 | 1154.3 | 1064.5 | 1089.3 | 1058.6 | 966.4 | 869.5 | 797.5 | 785.7 |
| 60° | 9716.1 | 8000.7 | 2371.1 | 1021.9 | 964.1 | 1003.0 | 983.0 | 903.8 | 785.7 | 725.4 | 715.9 |
| 62.5° | 10504.1 | 8407.1 | 2002.5 | 916.8 | 881.4 | 926.2 | 915.6 | 821.1 | 770.3 | 745.5 | 737.2 |
| 65° | 10898.7 | 8340.9 | 1531.1 | 823.5 | 811.6 | 881.4 | 858.9 | 855.4 | 815.2 | 786.8 | 777.4 |
| 67.5° | 10656.5 | 7771.5 | 1110.5 | 754.9 | 771.5 | 840.0 | 926.2 | 940.4 | 866.0 | 810.5 | 801.0 |
| 70° | 9594.4 | 6741.3 | 827.0 | 690.0 | 720.7 | 841.2 | 1056.2 | 984.1 | 849.5 | 784.5 | 773.8 |
| 72.5° | 7298.9 | 5027.0 | 641.5 | 621.4 | 654.5 | 847.1 | 1114.1 | 964.1 | 802.2 | 867.2 | 860.1 |
| 75° | 4174.0 | 2759.8 | 515.1 | 537.6 | 571.8 | 791.6 | 1084.6 | 912.1 | 765.6 | 796.3 | 796.3 |
| 77.5° | 1591.4 | 1060.9 | 425.3 | 454.9 | 459.6 | 691.1 | 1037.3 | 908.5 | 728.9 | 711.2 | 648.6 |
| 80° | 551.7 | 414.7 | 352.1 | 361.5 | 355.6 | 614.3 | 994.8 | 790.4 | 596.6 | 534.0 | 516.3 |
| 82.5° | 225.7 | 206.8 | 278.8 | 267.0 | 252.8 | 477.3 | 803.4 | 646.2 | 487.9 | 431.2 | 426.5 |
| 85° | 98.1 | 131.1 | 184.3 | 161.9 | 146.5 | 330.8 | 643.9 | 547.0 | 412.3 | 355.6 | 354.4 |
| 87.5° | 20.1 | 49.6 | 78.0 | 73.2 | 75.6 | 220.9 | 457.2 | 388.7 | 291.8 | 218.6 | 171.3 |
| 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)