

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: P522767

Luminaire Tested: **GALN-SA5B-727-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522767
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-SA5B-727-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23849 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

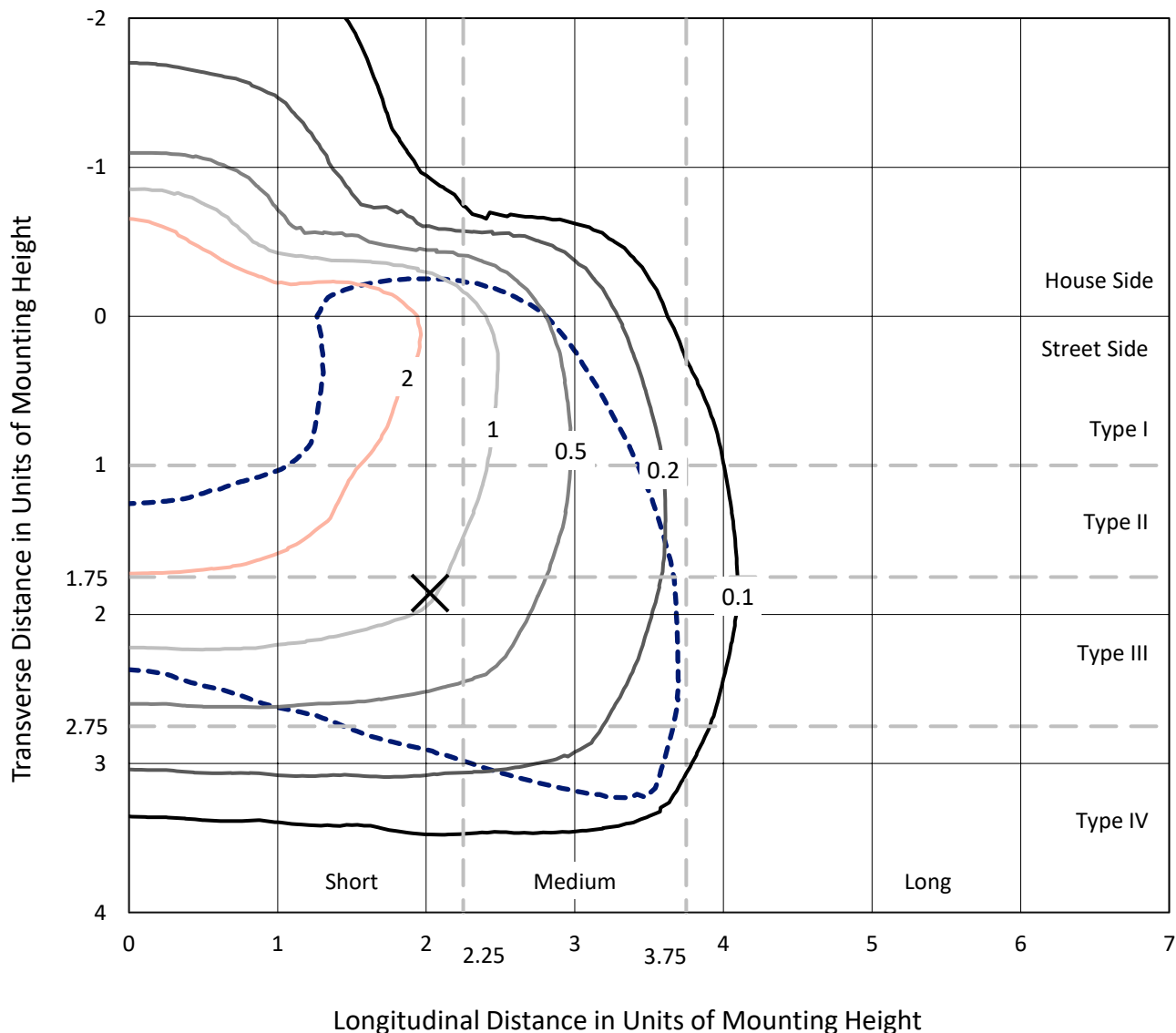
Input Watts (W): 204
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

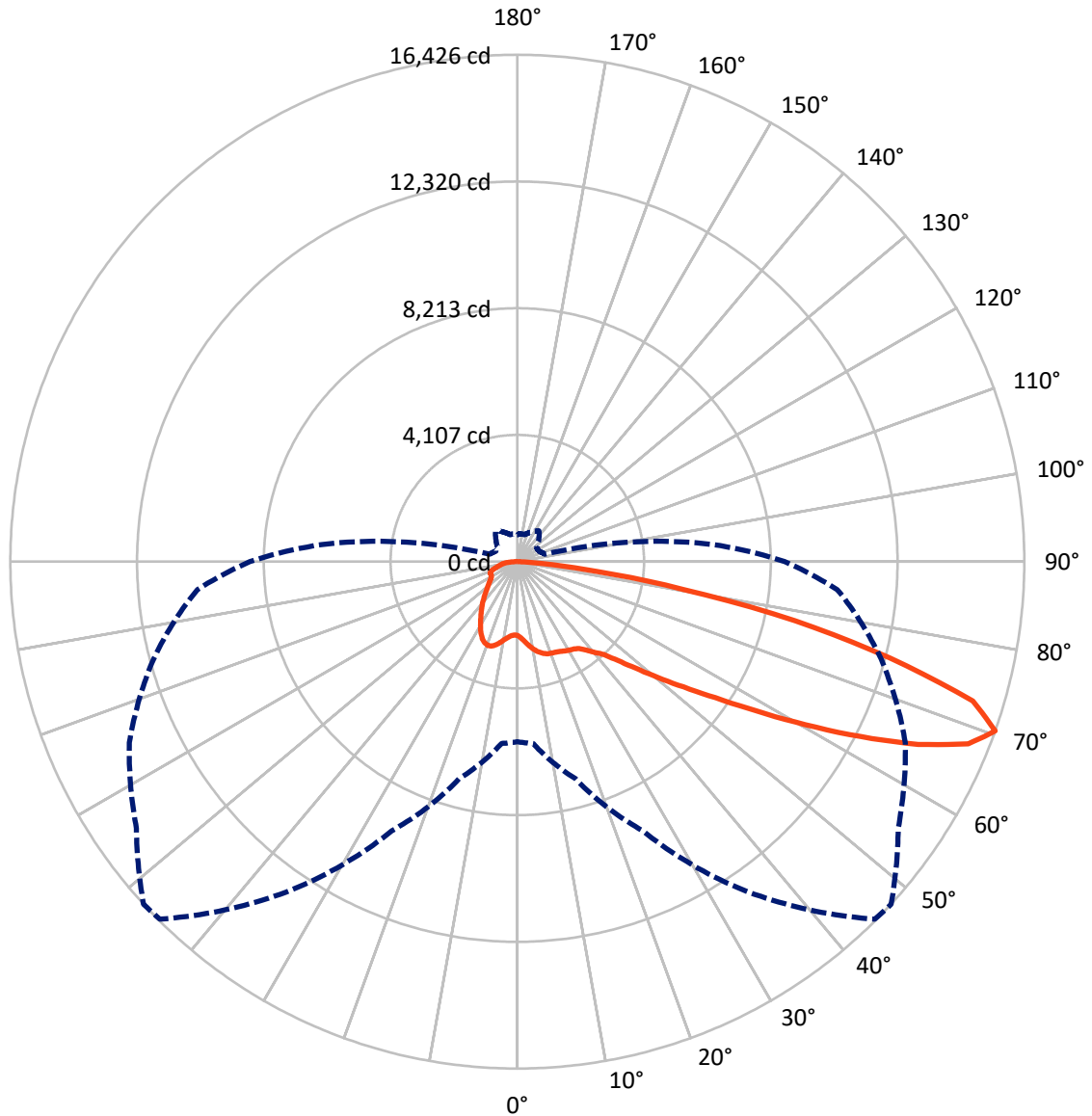
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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 | 5399.9 | 0.0 | 5399.9 |
| | % Fixture | 22.6 | 0.0 | 22.6 |
| Street Side | Lumens | 18449.1 | 0.0 | 18449.1 |
| | % Fixture | 77.4 | 0.0 | 77.4 |
| Total | Lumens | 23849.0 | 0.0 | 23849.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 246.8 | 1.0 |
| 10°-20° | 825.0 | 3.5 |
| 20°-30° | 1372.0 | 5.8 |
| 30°-40° | 1944.6 | 8.2 |
| 40°-50° | 2870.7 | 12.0 |
| 50°-60° | 4972.1 | 20.8 |
| 60°-70° | 7023.3 | 29.4 |
| 70°-80° | 4037.4 | 16.9 |
| 80°-90° | 557.1 | 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° | 23849.0 | 100.0 |
| 0°-180° | 23849.0 | 100.0 |

Coefficient of Utilization



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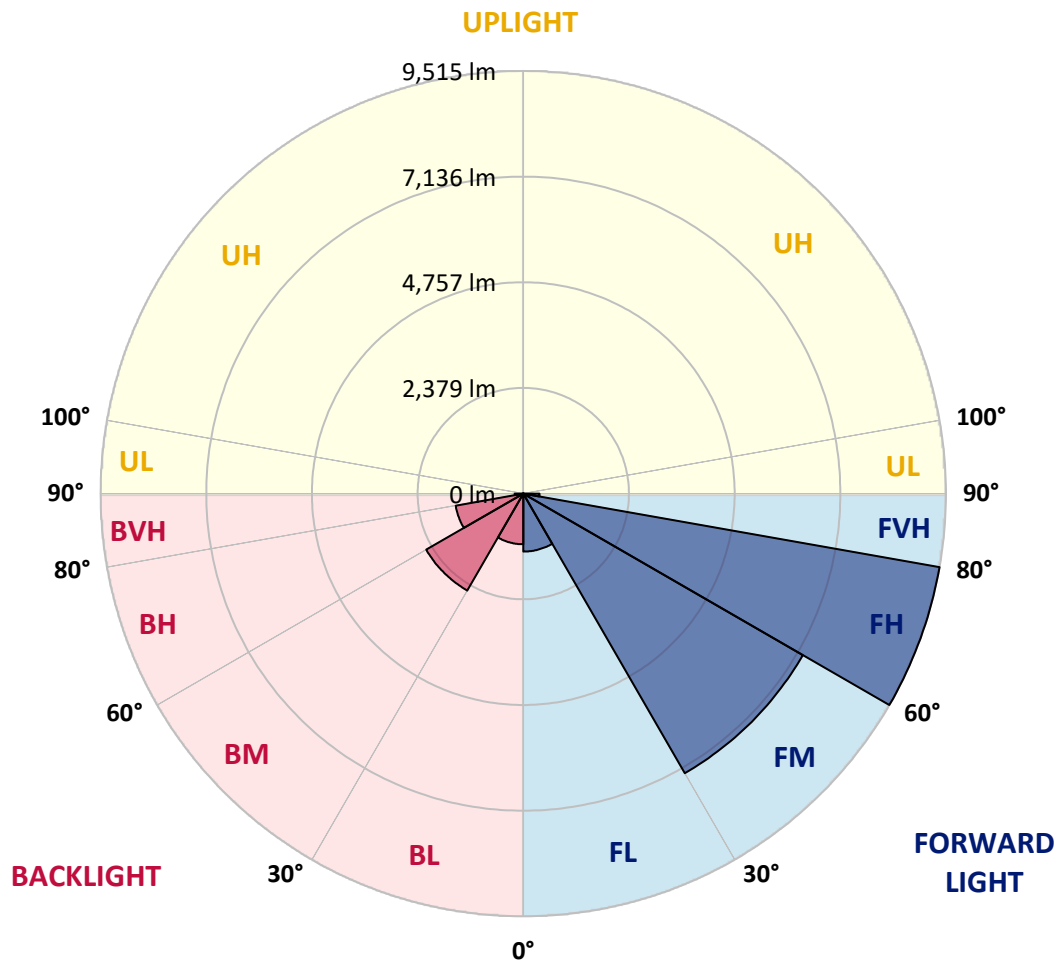
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 1304.2 | 5.5 | | | |
| FM | (30°-60°) | 7266.3 | 30.5 | | | |
| FH | (60°-80°) | 9514.8 | 39.9 | | | G4/12000 |
| FVH | (80°-90°) | 363.9 | 1.5 | | | G3/500 |
| BL | (0°-30°) | 1139.7 | 4.8 | B3/2500 | | |
| BM | (30°-60°) | 2521.1 | 10.6 | B3/5000 | | |
| BH | (60°-80°) | 1545.9 | 6.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 193.2 | 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° | 2394.2 | 2394.2 | 2394.2 | 2394.2 | 2394.2 | 2394.2 | 2394.2 | 2394.2 | 2394.2 | 2394.2 | 2394.2 |
| 2.5° | 2548.6 | 2539.6 | 2538.4 | 2519.2 | 2509.0 | 2489.9 | 2482.2 | 2464.3 | 2442.6 | 2421.0 | 2400.5 |
| 5° | 2748.9 | 2748.9 | 2740.0 | 2713.2 | 2671.1 | 2627.7 | 2608.6 | 2574.1 | 2512.8 | 2463.1 | 2421.0 |
| 7.5° | 2954.4 | 2957.0 | 2939.1 | 2899.5 | 2839.5 | 2769.4 | 2751.5 | 2700.4 | 2613.7 | 2540.9 | 2478.4 |
| 10° | 3131.8 | 3131.8 | 3107.5 | 3053.9 | 2978.7 | 2902.1 | 2884.2 | 2826.8 | 2729.8 | 2639.2 | 2557.5 |
| 12.5° | 3267.1 | 3267.1 | 3235.2 | 3165.0 | 3083.3 | 3014.4 | 2994.0 | 2939.1 | 2848.5 | 2747.7 | 2644.3 |
| 15° | 3355.1 | 3348.8 | 3313.0 | 3233.9 | 3154.8 | 3094.8 | 3080.7 | 3034.8 | 2951.9 | 2849.8 | 2733.6 |
| 17.5° | 3359.0 | 3356.4 | 3322.0 | 3255.6 | 3186.7 | 3145.8 | 3136.9 | 3106.3 | 3041.2 | 2944.2 | 2821.7 |
| 20° | 3284.9 | 3290.0 | 3267.1 | 3219.9 | 3186.7 | 3168.8 | 3165.0 | 3154.8 | 3108.8 | 3018.2 | 2895.7 |
| 22.5° | 3205.8 | 3214.7 | 3193.1 | 3167.5 | 3165.0 | 3182.8 | 3185.4 | 3187.9 | 3158.6 | 3070.5 | 2958.2 |
| 25° | 3186.7 | 3193.1 | 3171.4 | 3148.4 | 3162.4 | 3209.6 | 3219.9 | 3230.1 | 3207.1 | 3133.1 | 3032.3 |
| 27.5° | 3283.7 | 3278.6 | 3236.4 | 3186.7 | 3195.6 | 3259.4 | 3273.5 | 3284.9 | 3273.5 | 3209.6 | 3124.1 |
| 30° | 3558.0 | 3541.5 | 3457.2 | 3311.7 | 3265.8 | 3310.5 | 3324.5 | 3356.4 | 3356.4 | 3309.2 | 3223.7 |
| 32.5° | 4017.5 | 3985.6 | 3831.2 | 3545.3 | 3385.8 | 3359.0 | 3373.0 | 3425.3 | 3452.1 | 3415.1 | 3322.0 |
| 35° | 4575.2 | 4542.0 | 4321.2 | 3937.1 | 3605.3 | 3456.0 | 3452.1 | 3510.8 | 3582.3 | 3499.3 | 3378.1 |
| 37.5° | 5135.4 | 5101.0 | 4835.5 | 4404.2 | 3925.6 | 3660.1 | 3637.2 | 3657.6 | 3688.2 | 3536.4 | 3456.0 |
| 40° | 5695.7 | 5654.8 | 5422.6 | 4926.1 | 4317.4 | 3930.7 | 3870.7 | 3778.8 | 3766.1 | 3657.6 | 3606.5 |
| 42.5° | 6250.8 | 6213.8 | 6096.4 | 5511.9 | 4787.0 | 4194.9 | 4103.0 | 3944.7 | 3993.2 | 3928.1 | 3883.5 |
| 45° | 6811.1 | 6813.6 | 6688.6 | 6169.2 | 5353.7 | 4682.4 | 4558.6 | 4311.0 | 4425.9 | 4401.6 | 4427.1 |
| 47.5° | 7307.5 | 7301.1 | 7256.5 | 6807.3 | 6056.8 | 5310.3 | 5150.7 | 4863.6 | 5060.1 | 5149.5 | 5344.7 |
| 50° | 7788.7 | 7784.8 | 7787.4 | 7530.9 | 6873.6 | 6056.8 | 5880.7 | 5579.5 | 6022.4 | 6332.5 | 6682.2 |
| 52.5° | 8477.8 | 8499.5 | 8345.1 | 8277.4 | 7866.5 | 6938.7 | 6744.7 | 6433.3 | 7159.5 | 7648.3 | 8331.0 |
| 55° | 9169.5 | 9151.6 | 9030.4 | 9100.6 | 8905.3 | 7982.6 | 7779.7 | 7532.1 | 8425.5 | 8960.2 | 9986.3 |
| 57.5° | 9576.6 | 9583.0 | 9706.8 | 10050.1 | 10187.9 | 9284.4 | 9100.6 | 8909.2 | 9848.4 | 10227.5 | 11459.0 |
| 60° | 9942.9 | 9972.2 | 10328.3 | 10976.6 | 11350.5 | 10883.4 | 10720.1 | 10533.8 | 11154.0 | 11304.6 | 12737.8 |
| 62.5° | 10057.7 | 10148.3 | 10769.9 | 11739.8 | 12483.8 | 12688.0 | 12485.1 | 12074.1 | 12397.0 | 12338.3 | 13604.3 |
| 65° | 9484.7 | 9608.5 | 10722.6 | 12025.6 | 13495.8 | 14400.6 | 14271.8 | 13508.6 | 13456.3 | 13102.8 | 13746.0 |
| 67.5° | 7976.3 | 8100.0 | 9530.7 | 11425.8 | 13914.4 | 15883.6 | 15754.7 | 14555.1 | 14099.5 | 13174.2 | 12673.9 |
| 70° | 5836.1 | 5913.9 | 7282.0 | 9620.0 | 13073.4 | 16381.3 | 16426.0 | 15065.6 | 13869.7 | 12203.0 | 10406.1 |
| 72.5° | 3362.8 | 3535.1 | 4493.5 | 6767.7 | 10680.5 | 15123.0 | 15433.1 | 14003.8 | 12417.4 | 10180.3 | 7275.6 |
| 75° | 1445.9 | 1449.8 | 2077.7 | 3732.9 | 7233.5 | 12155.8 | 12455.7 | 11608.3 | 9751.5 | 7039.5 | 3884.8 |
| 77.5° | 687.9 | 700.6 | 913.8 | 1666.7 | 3981.7 | 8398.7 | 9207.8 | 8200.9 | 6236.8 | 3381.9 | 1467.6 |
| 80° | 446.7 | 455.6 | 559.0 | 827.0 | 1952.6 | 4870.0 | 5434.1 | 4730.9 | 2751.5 | 1208.6 | 633.0 |
| 82.5° | 270.6 | 273.1 | 373.9 | 505.4 | 1074.6 | 2205.3 | 2599.6 | 2053.4 | 1174.1 | 723.6 | 372.7 |
| 85° | 164.6 | 165.9 | 227.2 | 312.7 | 652.1 | 761.9 | 782.3 | 775.9 | 689.1 | 473.5 | 199.1 |
| 87.5° | 79.1 | 81.7 | 117.4 | 148.0 | 256.5 | 236.1 | 223.3 | 259.1 | 325.4 | 255.2 | 85.5 |
| 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° | 2394.2 | 2394.2 | 2394.2 | 2394.2 | 2394.2 | 2394.2 | 2394.2 | 2394.2 | 2394.2 | 2394.2 | 2394.2 |
| 2.5° | 2391.6 | 2387.8 | 2378.8 | 2375.0 | 2372.5 | 2373.7 | 2372.5 | 2372.5 | 2373.7 | 2373.7 | 2373.7 |
| 5° | 2403.1 | 2396.7 | 2382.7 | 2382.7 | 2390.3 | 2408.2 | 2424.8 | 2437.5 | 2451.6 | 2450.3 | 2450.3 |
| 7.5° | 2452.9 | 2441.4 | 2424.8 | 2429.9 | 2449.0 | 2477.1 | 2506.5 | 2534.5 | 2562.6 | 2565.2 | 2563.9 |
| 10° | 2525.6 | 2514.1 | 2496.2 | 2502.6 | 2533.3 | 2575.4 | 2612.4 | 2653.2 | 2683.9 | 2692.8 | 2690.2 |
| 12.5° | 2608.6 | 2585.6 | 2570.3 | 2588.1 | 2636.6 | 2692.8 | 2728.5 | 2759.1 | 2780.8 | 2793.6 | 2788.5 |
| 15° | 2692.8 | 2671.1 | 2653.2 | 2690.2 | 2748.9 | 2801.3 | 2819.1 | 2824.2 | 2828.1 | 2840.8 | 2838.3 |
| 17.5° | 2774.5 | 2745.1 | 2738.7 | 2787.2 | 2843.4 | 2866.3 | 2856.1 | 2834.4 | 2817.9 | 2828.1 | 2826.8 |
| 20° | 2847.2 | 2824.2 | 2821.7 | 2870.2 | 2891.9 | 2870.2 | 2826.8 | 2788.5 | 2759.1 | 2761.7 | 2760.4 |
| 22.5° | 2916.1 | 2898.3 | 2900.8 | 2921.2 | 2886.8 | 2812.7 | 2741.3 | 2689.0 | 2657.0 | 2663.4 | 2667.3 |
| 25° | 2992.7 | 2974.8 | 2981.2 | 2948.0 | 2834.4 | 2705.5 | 2602.2 | 2557.5 | 2544.7 | 2557.5 | 2566.4 |
| 27.5° | 3092.2 | 3080.7 | 3076.9 | 2949.3 | 2741.3 | 2547.3 | 2429.9 | 2413.3 | 2424.8 | 2452.9 | 2466.9 |
| 30° | 3199.4 | 3199.4 | 3179.0 | 2927.6 | 2613.7 | 2357.1 | 2255.0 | 2257.6 | 2297.2 | 2336.7 | 2350.8 |
| 32.5° | 3302.8 | 3324.5 | 3260.7 | 2868.9 | 2449.0 | 2172.1 | 2094.2 | 2096.8 | 2131.3 | 2179.8 | 2192.5 |
| 35° | 3388.3 | 3450.8 | 3330.9 | 2761.7 | 2255.0 | 2016.4 | 1957.7 | 1923.2 | 1924.5 | 1961.5 | 1971.7 |
| 37.5° | 3505.7 | 3621.9 | 3371.7 | 2602.2 | 2048.3 | 1883.7 | 1817.3 | 1757.3 | 1717.8 | 1702.5 | 1702.5 |
| 40° | 3709.9 | 3880.9 | 3381.9 | 2366.1 | 1853.0 | 1757.3 | 1662.9 | 1591.4 | 1514.9 | 1445.9 | 1433.2 |
| 42.5° | 4055.8 | 4271.4 | 3361.5 | 2094.2 | 1676.9 | 1618.2 | 1526.3 | 1438.3 | 1332.4 | 1235.4 | 1227.7 |
| 45° | 4668.3 | 4779.4 | 3306.6 | 1812.2 | 1520.0 | 1484.2 | 1394.9 | 1299.2 | 1186.9 | 1100.1 | 1093.7 |
| 47.5° | 5649.7 | 5492.8 | 3233.9 | 1562.1 | 1377.0 | 1366.8 | 1297.9 | 1186.9 | 1074.6 | 1014.6 | 1008.2 |
| 50° | 7082.9 | 6615.8 | 3223.7 | 1380.8 | 1262.2 | 1267.3 | 1211.1 | 1109.0 | 1010.8 | 961.0 | 953.3 |
| 52.5° | 8808.3 | 7972.4 | 3291.3 | 1253.2 | 1161.3 | 1180.5 | 1152.4 | 1058.0 | 971.2 | 929.1 | 921.4 |
| 55° | 10482.7 | 9192.5 | 3332.2 | 1153.7 | 1066.9 | 1102.6 | 1106.5 | 1027.3 | 948.2 | 906.1 | 901.0 |
| 57.5° | 11841.9 | 10111.3 | 3150.9 | 1063.1 | 985.2 | 1040.1 | 1068.2 | 1009.5 | 936.7 | 904.8 | 899.7 |
| 60° | 12787.5 | 10545.2 | 2635.4 | 982.7 | 925.2 | 990.3 | 1054.1 | 1010.8 | 964.8 | 968.6 | 971.2 |
| 62.5° | 13088.7 | 10352.5 | 1976.8 | 922.7 | 884.4 | 973.7 | 1077.1 | 1063.1 | 1015.9 | 1045.2 | 1050.3 |
| 65° | 12589.7 | 9556.2 | 1433.2 | 875.5 | 848.7 | 985.2 | 1146.0 | 1101.4 | 998.0 | 1019.7 | 1019.7 |
| 67.5° | 10919.2 | 8232.8 | 1115.4 | 832.1 | 807.8 | 1006.9 | 1214.9 | 1097.5 | 955.9 | 981.4 | 958.4 |
| 70° | 8661.6 | 6368.2 | 929.1 | 783.6 | 764.4 | 975.0 | 1221.3 | 1058.0 | 906.1 | 911.2 | 867.8 |
| 72.5° | 5748.0 | 4187.2 | 798.9 | 737.6 | 698.1 | 876.7 | 1169.0 | 1006.9 | 857.6 | 828.3 | 784.9 |
| 75° | 2816.6 | 2087.9 | 696.8 | 680.2 | 611.3 | 763.2 | 1097.5 | 958.4 | 805.3 | 759.3 | 735.1 |
| 77.5° | 1091.2 | 888.2 | 594.7 | 607.5 | 532.2 | 672.6 | 1003.1 | 889.5 | 736.4 | 673.8 | 654.7 |
| 80° | 529.6 | 504.1 | 487.5 | 506.7 | 437.7 | 573.0 | 916.3 | 829.5 | 672.6 | 603.6 | 575.6 |
| 82.5° | 329.3 | 311.4 | 373.9 | 394.3 | 336.9 | 523.2 | 869.1 | 778.5 | 592.2 | 500.3 | 477.3 |
| 85° | 167.2 | 178.7 | 250.1 | 269.3 | 241.2 | 416.0 | 715.9 | 584.5 | 427.5 | 354.8 | 357.3 |
| 87.5° | 63.8 | 85.5 | 131.4 | 141.7 | 128.9 | 219.5 | 394.3 | 340.7 | 274.4 | 186.3 | 172.3 |
| 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)