

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: P527789

Luminaire Tested: **GALN-SA2D-750-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527789
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-750-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9080 lumens
Efficiency: N/A
Efficacy: 72.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

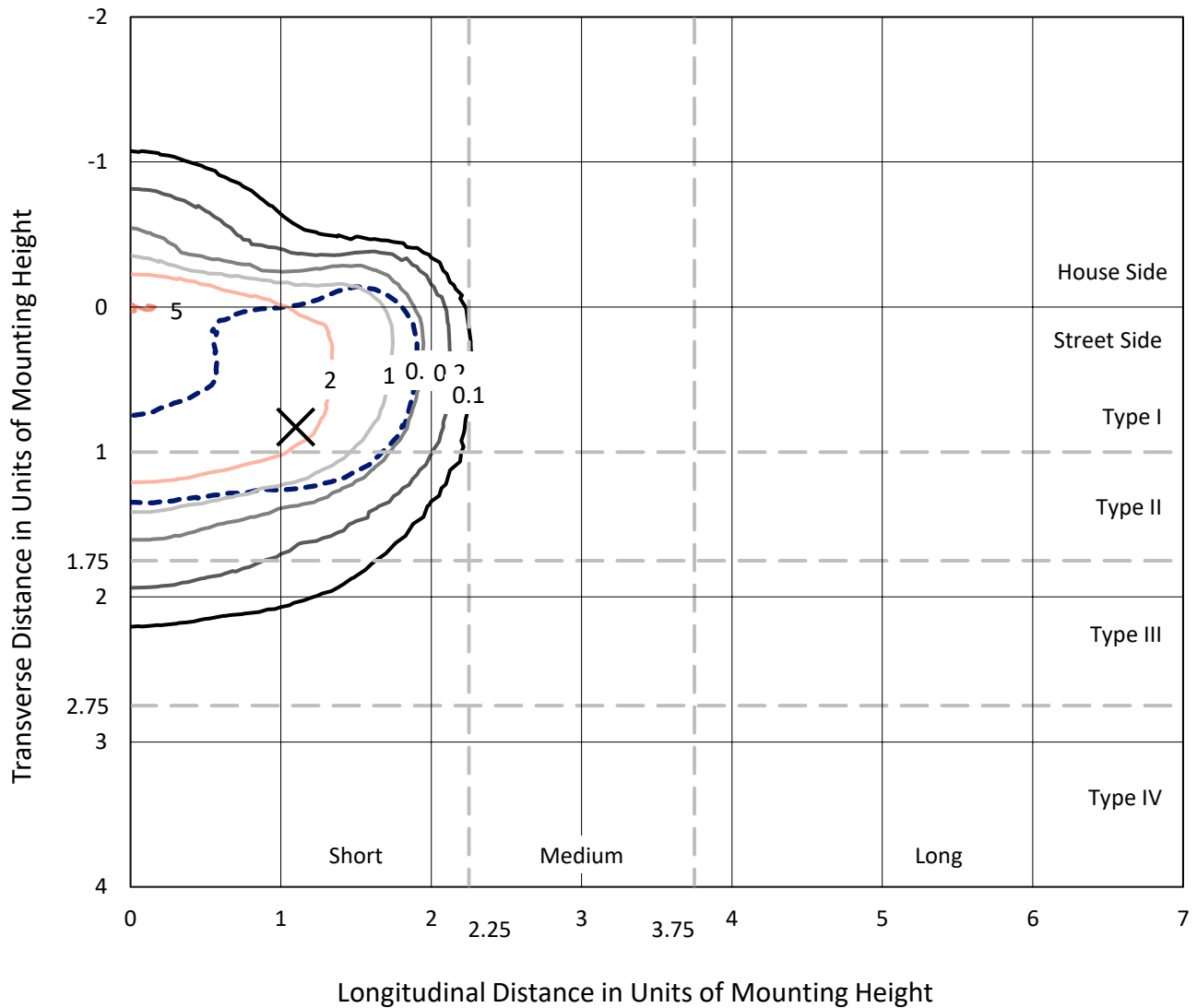
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

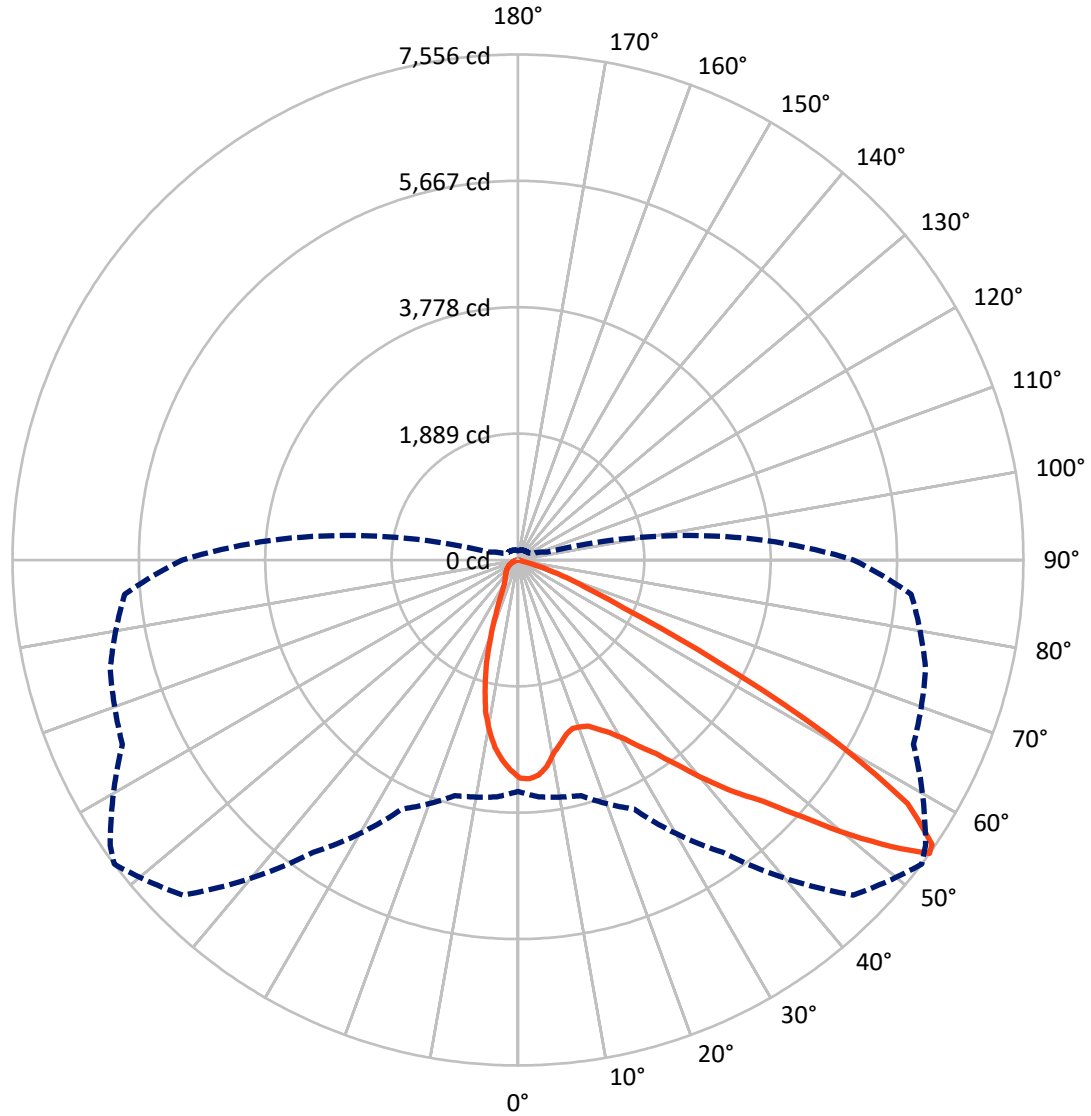
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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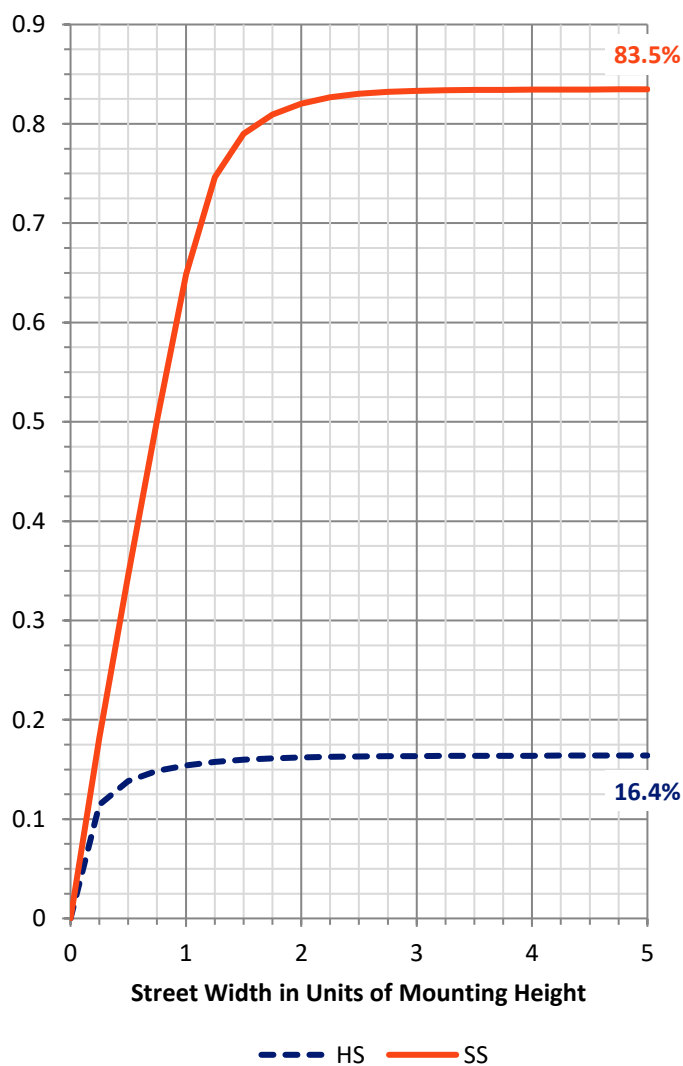
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1502.3 | 0.0 | 1502.3 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 7577.7 | 0.0 | 7577.7 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 9080.0 | 0.0 | 9080.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 279.8 | 3.1 |
| 10°-20° | 641.5 | 7.1 |
| 20°-30° | 911.8 | 10.0 |
| 30°-40° | 1407.1 | 15.5 |
| 40°-50° | 2206.2 | 24.3 |
| 50°-60° | 2562.8 | 28.2 |
| 60°-70° | 968.4 | 10.7 |
| 70°-80° | 92.1 | 1.0 |
| 80°-90° | 10.4 | 0.1 |
| 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° | 9080.0 | 100.0 |
| 0°-180° | 9080.0 | 100.0 |

Coefficient of Utilization



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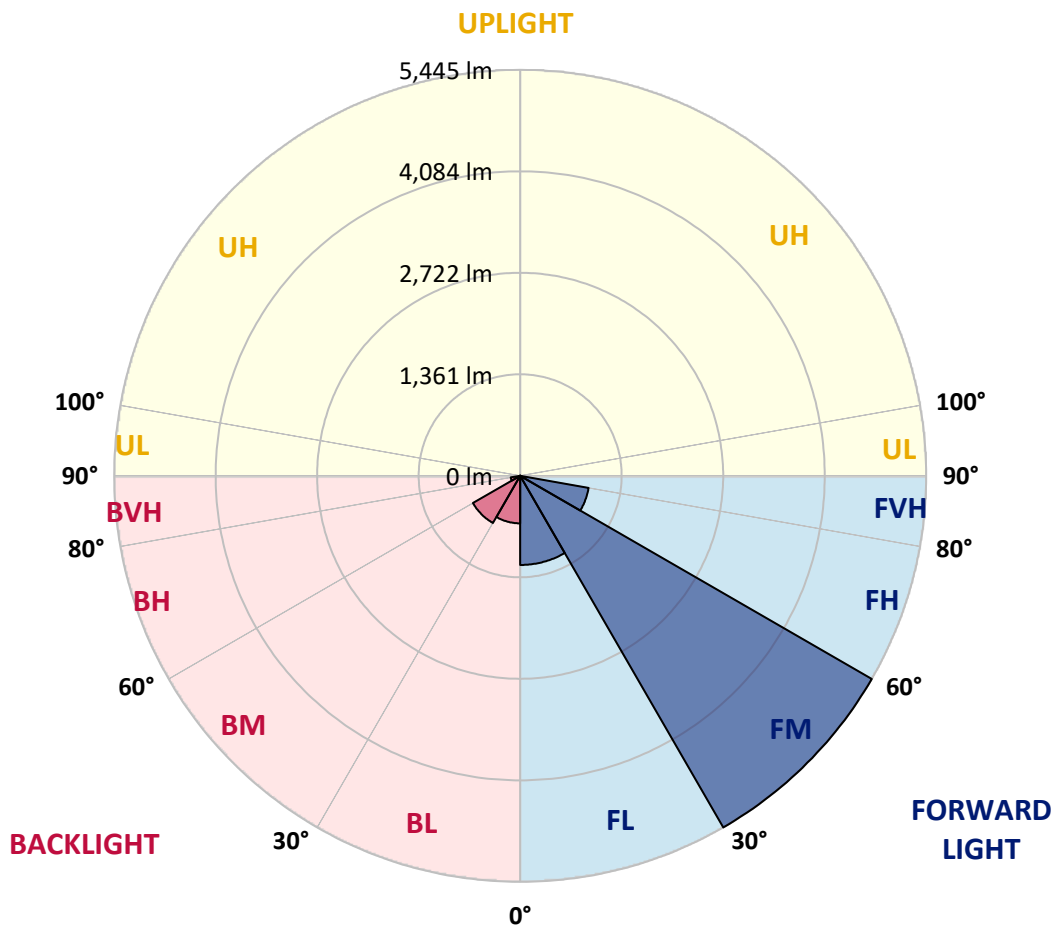
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1195.6 | 13.2 | | | |
| FM (30°-60°) | 5445.0 | 60.0 | | | |
| FH (60°-80°) | 931.7 | 10.3 | | | G1/1800 |
| FVH (80°-90°) | 5.4 | 0.1 | | | G0/10 |
| BL (0°-30°) | 637.5 | 7.0 | B2/1000 | | |
| BM (30°-60°) | 731.1 | 8.1 | B1/1000 | | |
| BH (60°-80°) | 128.7 | 1.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 5.0 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 53° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3261.4 | 3261.4 | 3261.4 | 3261.4 | 3261.4 | 3261.4 | 3261.4 | 3261.4 | 3261.4 | 3261.4 | 3261.4 |
| 2.5° | 3244.5 | 3215.7 | 3244.5 | 3247.9 | 3268.1 | 3286.8 | 3274.9 | 3302.0 | 3286.8 | 3269.8 | 3264.8 |
| 5° | 2982.3 | 3021.2 | 3022.9 | 3083.8 | 3070.2 | 3181.9 | 3230.9 | 3217.4 | 3300.3 | 3295.2 | 3283.4 |
| 7.5° | 2747.1 | 2731.9 | 2752.2 | 2823.3 | 2912.9 | 3041.5 | 3112.5 | 3110.8 | 3229.2 | 3313.8 | 3305.4 |
| 10° | 2528.9 | 2527.2 | 2569.5 | 2625.3 | 2701.5 | 2836.8 | 2934.9 | 2984.0 | 3168.3 | 3296.9 | 3315.5 |
| 12.5° | 2381.8 | 2375.0 | 2420.7 | 2466.3 | 2586.4 | 2691.3 | 2816.5 | 2840.2 | 3051.6 | 3237.7 | 3268.1 |
| 15° | 2285.3 | 2300.6 | 2303.9 | 2391.9 | 2468.0 | 2606.7 | 2704.9 | 2753.9 | 2997.5 | 3190.3 | 3307.1 |
| 17.5° | 2268.4 | 2288.7 | 2290.4 | 2363.1 | 2444.3 | 2561.1 | 2647.3 | 2713.3 | 2951.8 | 3214.0 | 3308.7 |
| 20° | 2302.3 | 2290.4 | 2300.6 | 2346.2 | 2425.7 | 2537.4 | 2662.6 | 2684.6 | 2936.6 | 3225.9 | 3327.4 |
| 22.5° | 2398.7 | 2395.3 | 2369.9 | 2407.1 | 2463.0 | 2579.7 | 2698.1 | 2731.9 | 2980.6 | 3286.8 | 3342.6 |
| 25° | 2505.2 | 2523.9 | 2500.2 | 2495.1 | 2534.0 | 2649.0 | 2806.3 | 2850.3 | 3127.7 | 3396.7 | 3389.9 |
| 27.5° | 2704.9 | 2686.2 | 2686.2 | 2662.6 | 2652.4 | 2708.2 | 2923.1 | 2995.8 | 3291.8 | 3538.8 | 3444.1 |
| 30° | 2896.0 | 2916.3 | 2901.1 | 2909.5 | 2841.9 | 2836.8 | 3088.8 | 3178.5 | 3582.8 | 3755.3 | 3559.1 |
| 32.5° | 3198.8 | 3171.7 | 3197.1 | 3175.1 | 3085.5 | 2994.1 | 3313.8 | 3406.9 | 3934.6 | 4004.0 | 3731.6 |
| 35° | 3450.8 | 3439.0 | 3547.3 | 3543.9 | 3398.4 | 3308.7 | 3552.3 | 3691.0 | 4179.9 | 4301.7 | 3934.6 |
| 37.5° | 3809.5 | 3787.5 | 3911.0 | 3970.2 | 3839.9 | 3706.3 | 3894.0 | 4054.7 | 4408.3 | 4540.2 | 4142.7 |
| 40° | 4178.2 | 4234.0 | 4399.8 | 4497.9 | 4359.2 | 4181.6 | 4311.9 | 4360.9 | 4560.5 | 4695.9 | 4284.8 |
| 42.5° | 4645.1 | 4726.3 | 4895.5 | 4980.0 | 4968.2 | 4775.4 | 4736.4 | 4734.8 | 4670.5 | 4651.9 | 4389.7 |
| 45° | 5093.4 | 5062.9 | 5323.4 | 5507.8 | 5656.7 | 5600.9 | 5145.8 | 5095.1 | 4844.7 | 4717.8 | 4416.7 |
| 47.5° | 5289.6 | 5279.4 | 5457.1 | 5785.2 | 6292.7 | 6362.1 | 5741.3 | 5545.0 | 5139.0 | 4995.3 | 4563.9 |
| 50° | 5035.9 | 5088.3 | 5264.2 | 5627.9 | 6406.0 | 6935.5 | 6472.0 | 6208.1 | 5482.4 | 5333.6 | 4912.4 |
| 52.5° | 4207.0 | 4242.5 | 4410.0 | 4871.8 | 6020.4 | 7273.8 | 7172.3 | 7020.1 | 6113.4 | 5866.4 | 5519.7 |
| 54° | 3459.3 | 3554.0 | 3645.4 | 4108.9 | 5333.6 | 7086.1 | 7556.3 | 7439.6 | 6524.5 | 6309.6 | 5902.0 |
| 55° | 3012.7 | 3068.5 | 3134.5 | 3596.3 | 4858.2 | 6768.0 | 7512.3 | 7522.5 | 6800.2 | 6448.3 | 6159.1 |
| 57.5° | 2200.8 | 2239.7 | 2172.0 | 2376.7 | 3335.8 | 5496.0 | 6871.2 | 7145.3 | 7172.3 | 6656.4 | 6316.4 |
| 60° | 1681.4 | 1698.4 | 1622.2 | 1654.4 | 2073.9 | 3772.2 | 5315.0 | 5644.8 | 6470.3 | 5817.4 | 5350.5 |
| 62.5° | 1304.2 | 1307.6 | 1305.9 | 1361.7 | 1429.4 | 2219.4 | 3324.0 | 3616.6 | 4460.7 | 4130.9 | 3633.5 |
| 65° | 960.8 | 945.6 | 972.7 | 1141.8 | 1219.6 | 1395.6 | 1750.8 | 1963.9 | 2424.0 | 2046.8 | 1463.2 |
| 67.5° | 622.5 | 627.6 | 654.6 | 849.2 | 1045.4 | 1070.8 | 1077.5 | 1060.6 | 1062.3 | 585.3 | 367.1 |
| 70° | 373.8 | 382.3 | 373.8 | 480.4 | 747.7 | 768.0 | 702.0 | 685.1 | 534.5 | 138.7 | 137.0 |
| 72.5° | 221.6 | 209.8 | 187.8 | 206.4 | 311.3 | 372.1 | 334.9 | 333.2 | 209.8 | 81.2 | 81.2 |
| 75° | 93.0 | 84.6 | 69.4 | 62.6 | 82.9 | 79.5 | 79.5 | 71.0 | 55.8 | 54.1 | 50.7 |
| 77.5° | 18.6 | 18.6 | 13.5 | 15.2 | 20.3 | 23.7 | 28.8 | 28.8 | 33.8 | 33.8 | 32.1 |
| 80° | 0.0 | 1.7 | 5.1 | 10.1 | 15.2 | 22.0 | 25.4 | 25.4 | 28.8 | 28.8 | 23.7 |
| 82.5° | 0.0 | 1.7 | 5.1 | 10.1 | 13.5 | 20.3 | 25.4 | 25.4 | 28.8 | 30.4 | 25.4 |
| 85° | 0.0 | 1.7 | 5.1 | 8.5 | 13.5 | 16.9 | 16.9 | 15.2 | 11.8 | 10.1 | 6.8 |
| 87.5° | 0.0 | 0.0 | 1.7 | 3.4 | 1.7 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 | 3.4 |
| 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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CATALOG NUMBER: GALN-SA2D-750-U-SL2-GRSBK

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3261.4 | 3261.4 | 3261.4 | 3261.4 | 3261.4 | 3261.4 | 3261.4 | 3261.4 | 3261.4 | 3261.4 | 3261.4 |
| 2.5° | 3276.6 | 3274.9 | 3234.3 | 3168.3 | 3153.1 | 3097.3 | 3090.5 | 3056.7 | 3075.3 | 3012.7 | 3006.0 |
| 5° | 3249.5 | 3229.2 | 3180.2 | 3137.9 | 3014.4 | 2926.4 | 2857.1 | 2772.5 | 2723.5 | 2731.9 | 2699.8 |
| 7.5° | 3288.4 | 3236.0 | 3149.7 | 3002.6 | 2852.0 | 2698.1 | 2615.2 | 2442.7 | 2380.1 | 2287.0 | 2273.5 |
| 10° | 3247.9 | 3208.9 | 3075.3 | 2831.7 | 2623.7 | 2402.1 | 2207.5 | 2016.4 | 1870.9 | 1808.3 | 1794.8 |
| 12.5° | 3244.5 | 3176.8 | 2953.5 | 2682.9 | 2381.8 | 2063.7 | 1781.2 | 1542.7 | 1398.9 | 1317.7 | 1299.1 |
| 15° | 3192.0 | 3110.8 | 2816.5 | 2452.8 | 2036.7 | 1640.8 | 1333.0 | 1102.9 | 993.0 | 945.6 | 959.1 |
| 17.5° | 3197.1 | 3075.3 | 2679.5 | 2209.2 | 1696.7 | 1204.4 | 910.1 | 791.7 | 762.9 | 774.7 | 774.7 |
| 20° | 3192.0 | 2995.8 | 2513.7 | 1928.4 | 1299.1 | 835.6 | 668.2 | 625.9 | 644.5 | 681.7 | 673.3 |
| 22.5° | 3165.0 | 2958.6 | 2361.5 | 1632.4 | 955.7 | 619.1 | 536.2 | 537.9 | 566.7 | 612.4 | 622.5 |
| 25° | 3185.3 | 2875.7 | 2168.6 | 1333.0 | 696.9 | 493.9 | 465.2 | 477.0 | 507.5 | 541.3 | 548.1 |
| 27.5° | 3170.0 | 2816.5 | 1967.3 | 1035.3 | 509.2 | 424.6 | 422.9 | 436.4 | 450.0 | 475.3 | 475.3 |
| 30° | 3187.0 | 2762.4 | 1769.4 | 769.7 | 419.5 | 389.1 | 382.3 | 392.4 | 406.0 | 411.1 | 409.4 |
| 32.5° | 3249.5 | 2721.8 | 1541.0 | 575.1 | 370.5 | 355.2 | 355.2 | 355.2 | 353.5 | 360.3 | 362.0 |
| 35° | 3386.6 | 2728.5 | 1339.7 | 444.9 | 338.3 | 326.5 | 321.4 | 314.6 | 311.3 | 314.6 | 316.3 |
| 37.5° | 3535.4 | 2725.1 | 1131.7 | 378.9 | 314.6 | 304.5 | 292.6 | 282.5 | 280.8 | 284.2 | 279.1 |
| 40° | 3601.4 | 2757.3 | 938.8 | 340.0 | 292.6 | 280.8 | 262.2 | 253.7 | 255.4 | 258.8 | 255.4 |
| 42.5° | 3691.0 | 2767.4 | 813.7 | 309.6 | 272.3 | 253.7 | 241.9 | 231.7 | 230.1 | 235.1 | 233.4 |
| 45° | 3689.4 | 2709.9 | 681.7 | 292.6 | 253.7 | 233.4 | 218.2 | 209.8 | 209.8 | 213.1 | 214.8 |
| 47.5° | 3797.6 | 2701.5 | 585.3 | 277.4 | 240.2 | 219.9 | 201.3 | 194.5 | 192.8 | 192.8 | 189.5 |
| 50° | 4049.7 | 2819.9 | 510.9 | 260.5 | 223.3 | 204.7 | 189.5 | 181.0 | 174.2 | 170.9 | 169.2 |
| 52.5° | 4541.9 | 3188.6 | 453.3 | 240.2 | 204.7 | 189.5 | 175.9 | 169.2 | 160.7 | 152.2 | 150.6 |
| 54° | 5018.9 | 3569.3 | 450.0 | 223.3 | 189.5 | 179.3 | 167.5 | 164.1 | 153.9 | 142.1 | 138.7 |
| 55° | 5233.8 | 3790.9 | 461.8 | 209.8 | 179.3 | 172.5 | 162.4 | 159.0 | 148.9 | 135.3 | 133.6 |
| 57.5° | 5411.4 | 3877.1 | 455.0 | 174.2 | 162.4 | 160.7 | 152.2 | 147.2 | 135.3 | 116.7 | 113.3 |
| 60° | 4355.8 | 2931.5 | 326.5 | 153.9 | 148.9 | 145.5 | 138.7 | 135.3 | 120.1 | 99.8 | 98.1 |
| 62.5° | 2752.2 | 1686.5 | 208.1 | 135.3 | 130.3 | 125.2 | 116.7 | 113.3 | 99.8 | 79.5 | 74.4 |
| 65° | 1172.3 | 698.6 | 140.4 | 120.1 | 111.6 | 103.2 | 96.4 | 91.3 | 79.5 | 59.2 | 57.5 |
| 67.5° | 304.5 | 248.7 | 116.7 | 104.9 | 93.0 | 81.2 | 76.1 | 67.7 | 54.1 | 40.6 | 38.9 |
| 70° | 137.0 | 125.2 | 98.1 | 88.0 | 74.4 | 62.6 | 55.8 | 47.4 | 35.5 | 27.1 | 25.4 |
| 72.5° | 81.2 | 79.5 | 74.4 | 66.0 | 55.8 | 47.4 | 40.6 | 32.1 | 23.7 | 15.2 | 15.2 |
| 75° | 50.7 | 49.1 | 50.7 | 45.7 | 38.9 | 35.5 | 30.4 | 22.0 | 13.5 | 6.8 | 6.8 |
| 77.5° | 30.4 | 30.4 | 30.4 | 28.8 | 27.1 | 27.1 | 22.0 | 13.5 | 6.8 | 1.7 | 1.7 |
| 80° | 23.7 | 23.7 | 25.4 | 23.7 | 23.7 | 23.7 | 18.6 | 10.1 | 3.4 | 0.0 | 0.0 |
| 82.5° | 23.7 | 25.4 | 28.8 | 27.1 | 23.7 | 20.3 | 16.9 | 10.1 | 3.4 | 0.0 | 0.0 |
| 85° | 6.8 | 5.1 | 8.5 | 11.8 | 16.9 | 15.2 | 11.8 | 8.5 | 3.4 | 0.0 | 0.0 |
| 87.5° | 3.4 | 3.4 | 3.4 | 3.4 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 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)