

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: P450976

Luminaire Tested: **GALN-SA1D-750-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450976
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1D-750-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6413 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

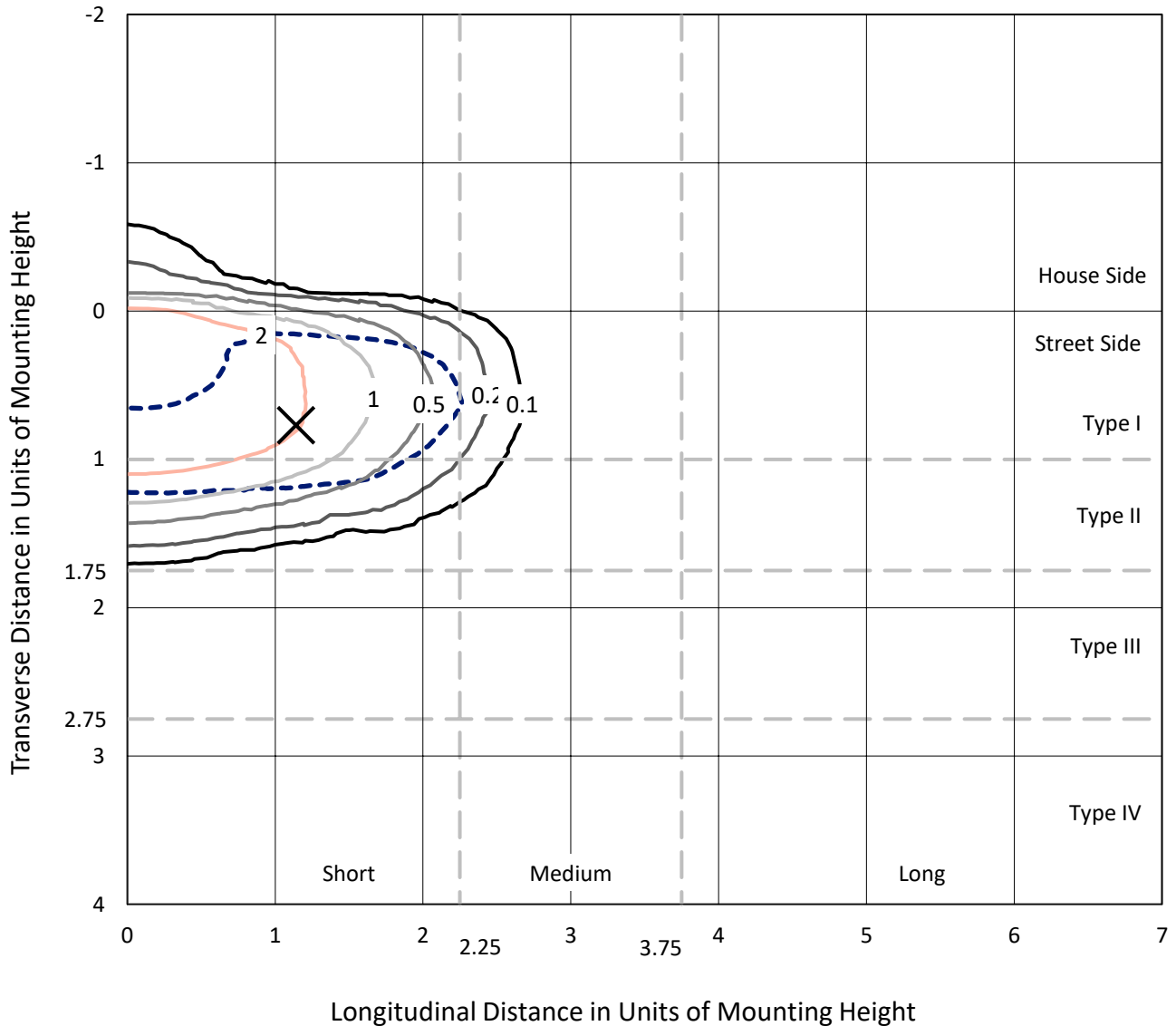
Input Watts (W): 65
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

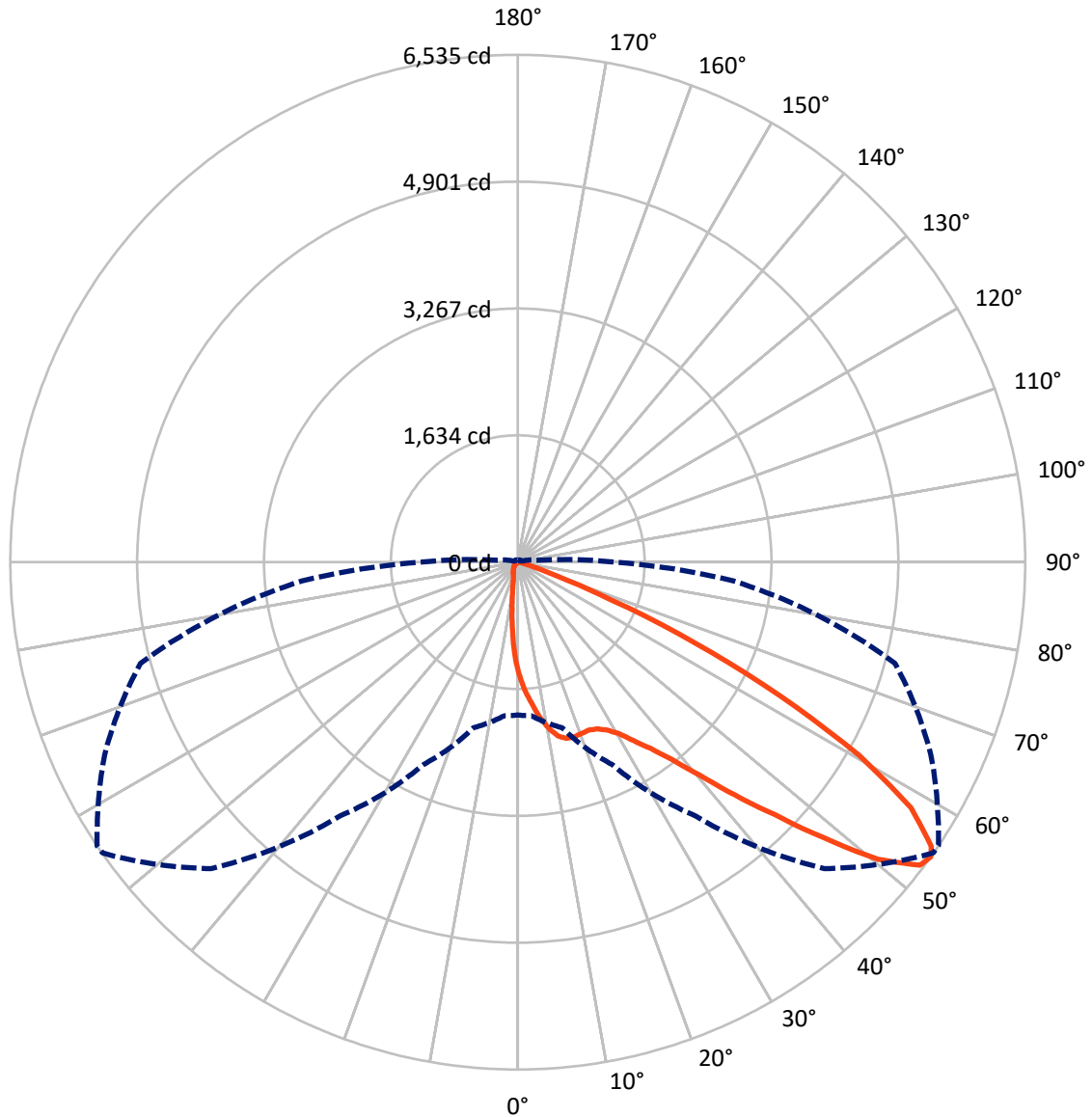
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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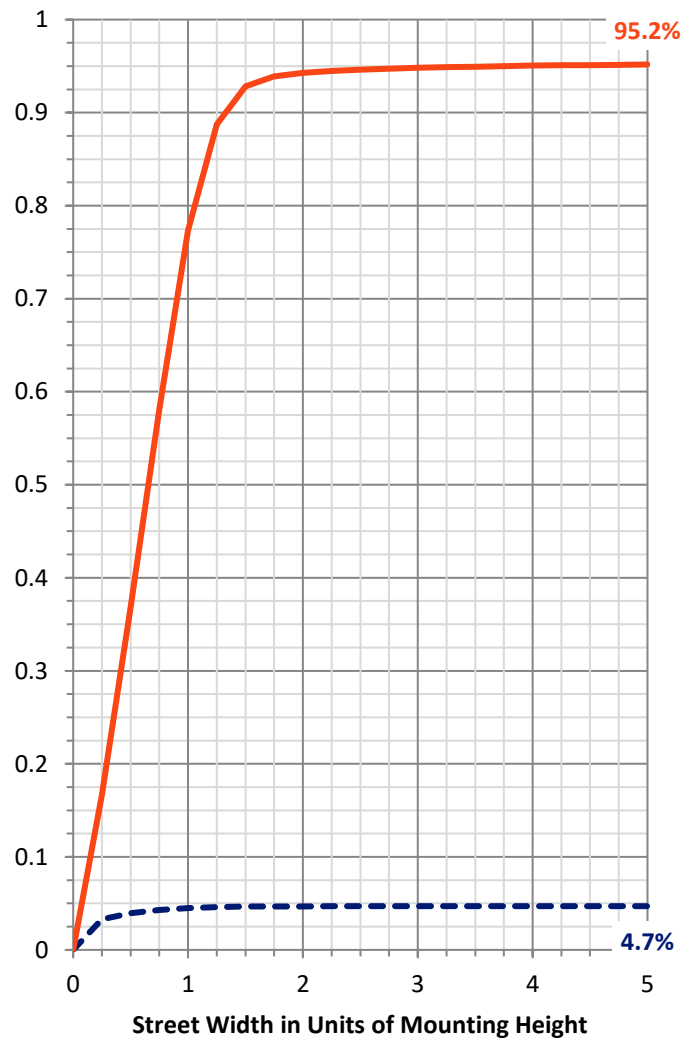
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 303.3 | 0.0 | 303.3 |
| | % Fixture | 4.7 | 0.0 | 4.7 |
| Street Side | Lumens | 6109.8 | 0.0 | 6109.8 |
| | % Fixture | 95.3 | 0.0 | 95.3 |
| Total | Lumens | 6413.0 | 0.0 | 6413.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 125.9 | 2.0 |
| 10°-20° | 340.4 | 5.3 |
| 20°-30° | 589.5 | 9.2 |
| 30°-40° | 1017.5 | 15.9 |
| 40°-50° | 1731.8 | 27.0 |
| 50°-60° | 1713.9 | 26.7 |
| 60°-70° | 782.3 | 12.2 |
| 70°-80° | 100.5 | 1.6 |
| 80°-90° | 11.3 | 0.2 |
| 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° | 6413.0 | 100.0 |
| 0°-180° | 6413.0 | 100.0 |



--- HS — SS

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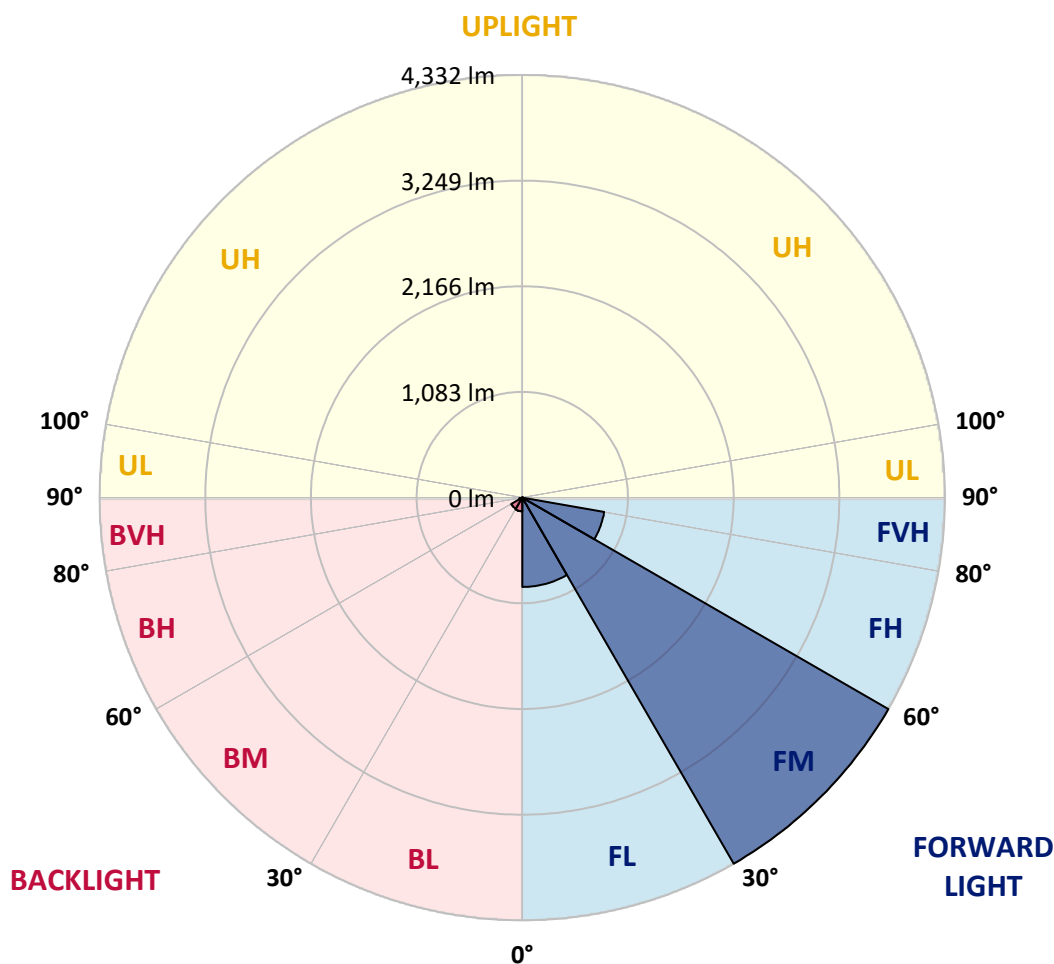
CATALOG NUMBER: GALN-SA1D-750-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 915.5 | 14.3 | | | |
| FM (30°-60°) | 4331.8 | 67.5 | | | |
| FH (60°-80°) | 852.3 | 13.3 | | | G1/1800 |
| FVH (80°-90°) | 10.1 | 0.2 | | | G1/100 |
| BL (0°-30°) | 140.2 | 2.2 | B1/500 | | |
| BM (30°-60°) | 131.4 | 2.0 | B0/220 | | |
| BH (60°-80°) | 30.4 | 0.5 | B0/110 | | G0/110 |
| BVH (80°-90°) | 1.2 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1424.8 | 1424.8 | 1424.8 | 1424.8 | 1424.8 | 1424.8 | 1424.8 | 1424.8 | 1424.8 | 1424.8 | 1424.8 |
| 2.5° | 1810.7 | 1798.2 | 1780.9 | 1767.5 | 1735.9 | 1690.4 | 1642.4 | 1642.4 | 1596.1 | 1531.7 | 1465.9 |
| 5° | 2088.5 | 2080.3 | 2063.4 | 2028.8 | 1993.3 | 1929.7 | 1833.2 | 1816.4 | 1733.7 | 1616.9 | 1494.0 |
| 7.5° | 2201.4 | 2205.3 | 2206.2 | 2197.1 | 2180.2 | 2117.5 | 2021.9 | 2010.2 | 1878.2 | 1721.6 | 1530.8 |
| 10° | 2093.3 | 2112.3 | 2130.9 | 2168.5 | 2221.8 | 2236.9 | 2182.8 | 2170.7 | 2040.9 | 1827.6 | 1570.6 |
| 12.5° | 1932.3 | 1942.7 | 1953.1 | 2012.4 | 2119.2 | 2241.7 | 2298.3 | 2297.9 | 2188.0 | 1933.2 | 1621.2 |
| 15° | 1857.5 | 1866.5 | 1867.4 | 1893.8 | 1986.4 | 2164.7 | 2347.7 | 2354.2 | 2331.7 | 2063.4 | 1675.7 |
| 17.5° | 1873.0 | 1880.4 | 1874.3 | 1880.8 | 1929.3 | 2079.8 | 2342.0 | 2363.7 | 2448.1 | 2188.4 | 1725.1 |
| 20° | 1974.7 | 1989.0 | 1965.6 | 1947.5 | 1962.2 | 2057.3 | 2323.0 | 2353.3 | 2530.3 | 2310.5 | 1770.1 |
| 22.5° | 2157.3 | 2165.1 | 2135.7 | 2085.9 | 2059.9 | 2104.5 | 2317.8 | 2347.7 | 2600.4 | 2410.4 | 1796.0 |
| 25° | 2360.2 | 2357.6 | 2325.2 | 2269.4 | 2214.8 | 2199.7 | 2352.0 | 2378.8 | 2658.3 | 2500.4 | 1803.8 |
| 27.5° | 2563.1 | 2570.9 | 2516.4 | 2447.2 | 2381.9 | 2342.5 | 2428.6 | 2448.5 | 2723.7 | 2602.9 | 1813.3 |
| 30° | 2798.9 | 2786.4 | 2732.7 | 2653.6 | 2578.7 | 2523.8 | 2551.9 | 2557.5 | 2813.7 | 2738.8 | 1838.4 |
| 32.5° | 3105.7 | 3071.1 | 3011.0 | 2872.5 | 2818.8 | 2725.8 | 2732.7 | 2739.7 | 2923.1 | 2873.4 | 1868.7 |
| 35° | 3521.9 | 3520.2 | 3402.5 | 3216.0 | 3085.4 | 2969.9 | 2939.6 | 2945.2 | 3088.8 | 3073.3 | 1935.8 |
| 37.5° | 4023.0 | 4029.9 | 3895.8 | 3708.0 | 3467.4 | 3284.0 | 3221.7 | 3222.5 | 3340.6 | 3349.3 | 2037.9 |
| 40° | 4431.0 | 4449.2 | 4369.1 | 4242.3 | 4004.8 | 3717.9 | 3613.2 | 3603.7 | 3694.6 | 3683.8 | 2183.7 |
| 42.5° | 4606.6 | 4623.5 | 4653.4 | 4697.5 | 4566.8 | 4330.2 | 4083.1 | 4096.1 | 4123.8 | 4048.1 | 2347.2 |
| 45° | 4520.5 | 4547.4 | 4664.6 | 4937.2 | 5060.1 | 4980.5 | 4685.8 | 4640.4 | 4523.1 | 4444.0 | 2511.7 |
| 47.5° | 4161.9 | 4227.2 | 4423.2 | 4877.1 | 5307.1 | 5576.3 | 5366.0 | 5305.8 | 4922.9 | 4733.0 | 2616.4 |
| 50° | 3572.1 | 3576.0 | 3849.0 | 4429.2 | 5179.1 | 5952.2 | 6060.4 | 6015.4 | 5295.5 | 4895.2 | 2669.1 |
| 52.5° | 2589.5 | 2674.8 | 2924.9 | 3596.8 | 4624.4 | 5895.1 | 6503.0 | 6484.4 | 5679.7 | 4978.3 | 2745.3 |
| 54° | 1968.7 | 1985.1 | 2207.5 | 2874.2 | 3987.1 | 5581.5 | 6530.3 | 6534.6 | 5870.5 | 5028.5 | 2790.3 |
| 55° | 1613.9 | 1574.5 | 1808.1 | 2448.5 | 3552.2 | 5304.1 | 6441.2 | 6461.9 | 5956.1 | 5054.5 | 2823.6 |
| 57.5° | 765.0 | 765.4 | 944.1 | 1291.5 | 2224.8 | 4118.6 | 5896.4 | 5970.0 | 5965.7 | 5099.0 | 2926.2 |
| 60° | 387.2 | 389.8 | 429.2 | 596.2 | 1099.0 | 2737.9 | 4875.3 | 5050.6 | 5506.6 | 5105.5 | 2959.9 |
| 62.5° | 270.9 | 267.8 | 261.3 | 286.9 | 462.5 | 1391.5 | 3629.7 | 3782.0 | 4678.5 | 4858.5 | 2852.6 |
| 65° | 231.9 | 225.4 | 207.2 | 203.4 | 233.6 | 554.3 | 2260.7 | 2509.1 | 3572.1 | 4206.9 | 2547.1 |
| 67.5° | 198.2 | 195.6 | 179.1 | 169.2 | 165.3 | 241.4 | 1166.5 | 1297.1 | 2441.6 | 3023.9 | 1929.3 |
| 70° | 168.3 | 167.0 | 157.1 | 144.5 | 133.7 | 144.5 | 432.7 | 536.1 | 1360.7 | 1628.1 | 910.3 |
| 72.5° | 136.7 | 138.0 | 139.8 | 123.7 | 112.5 | 102.5 | 184.8 | 215.0 | 569.4 | 581.9 | 318.4 |
| 75° | 119.8 | 118.6 | 118.6 | 107.7 | 93.9 | 76.2 | 101.7 | 109.5 | 174.4 | 161.8 | 74.0 |
| 77.5° | 84.4 | 81.3 | 95.2 | 88.7 | 78.3 | 54.1 | 58.0 | 61.4 | 72.3 | 61.9 | 34.6 |
| 80° | 58.4 | 58.4 | 61.0 | 79.6 | 70.5 | 39.4 | 35.5 | 38.1 | 42.8 | 36.8 | 19.9 |
| 82.5° | 32.9 | 33.7 | 39.8 | 42.4 | 41.1 | 26.4 | 23.4 | 23.8 | 28.6 | 25.1 | 12.5 |
| 85° | 3.9 | 6.5 | 22.9 | 22.5 | 16.9 | 11.7 | 13.0 | 13.4 | 17.7 | 15.6 | 7.4 |
| 87.5° | 0.4 | 0.9 | 4.8 | 6.1 | 4.3 | 4.8 | 4.8 | 4.8 | 6.1 | 6.9 | 5.2 |
| 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-SA1D-750-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1424.8 | 1424.8 | 1424.8 | 1424.8 | 1424.8 | 1424.8 | 1424.8 | 1424.8 | 1424.8 | 1424.8 | 1424.8 |
| 2.5° | 1430.4 | 1397.5 | 1319.2 | 1228.4 | 1170.4 | 1076.1 | 996.4 | 938.9 | 924.6 | 896.9 | 905.1 |
| 5° | 1428.7 | 1360.3 | 1200.7 | 1031.9 | 851.9 | 717.8 | 617.9 | 539.1 | 504.5 | 481.6 | 465.6 |
| 7.5° | 1429.5 | 1322.7 | 1066.5 | 797.8 | 582.8 | 451.3 | 358.7 | 310.7 | 278.6 | 265.2 | 267.0 |
| 10° | 1432.1 | 1280.3 | 910.8 | 591.0 | 393.3 | 291.6 | 234.9 | 212.0 | 201.2 | 199.5 | 199.0 |
| 12.5° | 1438.2 | 1234.0 | 761.9 | 438.7 | 275.2 | 212.0 | 190.4 | 182.6 | 179.1 | 179.1 | 177.8 |
| 15° | 1444.7 | 1182.9 | 638.2 | 326.2 | 212.0 | 182.2 | 172.2 | 168.3 | 166.1 | 166.1 | 165.7 |
| 17.5° | 1444.7 | 1124.1 | 522.7 | 253.1 | 182.6 | 167.4 | 159.7 | 154.5 | 152.7 | 152.7 | 152.3 |
| 20° | 1435.6 | 1055.7 | 420.1 | 203.8 | 165.7 | 153.6 | 145.8 | 140.2 | 138.0 | 137.2 | 136.7 |
| 22.5° | 1404.0 | 964.4 | 334.5 | 175.2 | 151.9 | 141.5 | 131.5 | 125.0 | 123.3 | 122.4 | 122.9 |
| 25° | 1347.8 | 861.4 | 264.8 | 154.0 | 139.3 | 126.8 | 118.1 | 113.4 | 111.6 | 111.6 | 112.1 |
| 27.5° | 1289.8 | 753.7 | 209.8 | 138.0 | 124.2 | 112.9 | 106.0 | 103.0 | 102.5 | 103.8 | 104.3 |
| 30° | 1236.1 | 645.5 | 170.0 | 125.0 | 110.8 | 101.2 | 96.5 | 95.6 | 95.6 | 96.1 | 96.5 |
| 32.5° | 1176.4 | 550.8 | 142.3 | 113.8 | 99.9 | 91.7 | 89.1 | 89.1 | 90.0 | 90.0 | 90.9 |
| 35° | 1138.8 | 469.4 | 125.0 | 103.0 | 91.7 | 84.8 | 83.1 | 83.5 | 84.8 | 86.5 | 87.4 |
| 37.5° | 1118.5 | 404.5 | 113.8 | 94.3 | 83.9 | 79.2 | 77.4 | 78.3 | 81.3 | 84.4 | 84.8 |
| 40° | 1120.2 | 355.7 | 104.7 | 87.0 | 77.9 | 72.7 | 71.4 | 74.0 | 77.0 | 80.0 | 80.5 |
| 42.5° | 1139.2 | 319.3 | 96.1 | 78.3 | 72.7 | 65.3 | 64.9 | 67.5 | 68.8 | 71.8 | 72.3 |
| 45° | 1161.7 | 292.9 | 87.0 | 69.2 | 63.2 | 56.7 | 57.1 | 59.3 | 61.0 | 65.8 | 66.6 |
| 47.5° | 1168.6 | 274.7 | 76.6 | 58.8 | 51.9 | 49.8 | 50.2 | 51.5 | 54.9 | 59.3 | 59.7 |
| 50° | 1176.4 | 263.5 | 66.6 | 49.8 | 44.1 | 43.7 | 44.1 | 45.0 | 47.2 | 48.9 | 48.5 |
| 52.5° | 1209.7 | 263.1 | 58.4 | 43.3 | 37.6 | 38.5 | 38.9 | 38.5 | 36.8 | 34.2 | 33.3 |
| 54° | 1240.9 | 264.4 | 54.5 | 40.2 | 34.6 | 35.9 | 35.5 | 33.3 | 29.0 | 26.4 | 25.1 |
| 55° | 1266.0 | 265.7 | 52.4 | 38.1 | 32.9 | 33.3 | 33.7 | 29.4 | 23.8 | 21.2 | 20.3 |
| 57.5° | 1315.3 | 262.6 | 47.2 | 33.3 | 29.0 | 27.3 | 26.8 | 19.5 | 13.0 | 11.2 | 10.4 |
| 60° | 1290.7 | 237.1 | 42.8 | 28.6 | 24.7 | 22.1 | 18.2 | 10.8 | 6.5 | 4.8 | 4.8 |
| 62.5° | 1193.7 | 201.2 | 38.1 | 23.4 | 20.3 | 16.9 | 9.5 | 6.1 | 3.0 | 1.7 | 1.3 |
| 65° | 1067.8 | 169.2 | 34.2 | 18.6 | 16.0 | 10.8 | 5.2 | 3.9 | 1.3 | 0.0 | 0.0 |
| 67.5° | 794.0 | 125.5 | 29.0 | 14.7 | 12.1 | 6.9 | 3.5 | 2.2 | 0.4 | 0.0 | 0.0 |
| 70° | 367.8 | 76.6 | 24.7 | 11.2 | 8.7 | 5.2 | 2.6 | 1.3 | 0.0 | 0.0 | 0.0 |
| 72.5° | 105.6 | 48.0 | 20.3 | 8.2 | 6.1 | 4.3 | 2.2 | 0.9 | 0.4 | 0.0 | 0.0 |
| 75° | 36.8 | 38.5 | 15.1 | 6.1 | 4.8 | 3.0 | 1.7 | 0.9 | 0.4 | 0.0 | 0.0 |
| 77.5° | 22.1 | 31.2 | 9.5 | 5.2 | 3.9 | 2.6 | 1.7 | 0.9 | 0.4 | 0.4 | 0.0 |
| 80° | 12.5 | 20.8 | 6.1 | 4.3 | 3.5 | 2.2 | 1.3 | 0.9 | 0.4 | 0.4 | 0.0 |
| 82.5° | 6.9 | 10.0 | 4.8 | 3.9 | 3.0 | 2.2 | 1.3 | 0.9 | 0.4 | 0.4 | 0.4 |
| 85° | 5.6 | 5.2 | 3.9 | 3.5 | 2.6 | 1.7 | 1.3 | 0.4 | 0.0 | 0.0 | 0.0 |
| 87.5° | 4.3 | 3.5 | 3.5 | 3.5 | 2.6 | 1.7 | 1.3 | 0.4 | 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)