

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: P947804

Luminaire Tested: **GALN-SB3A-750-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947804  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB3A-750-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

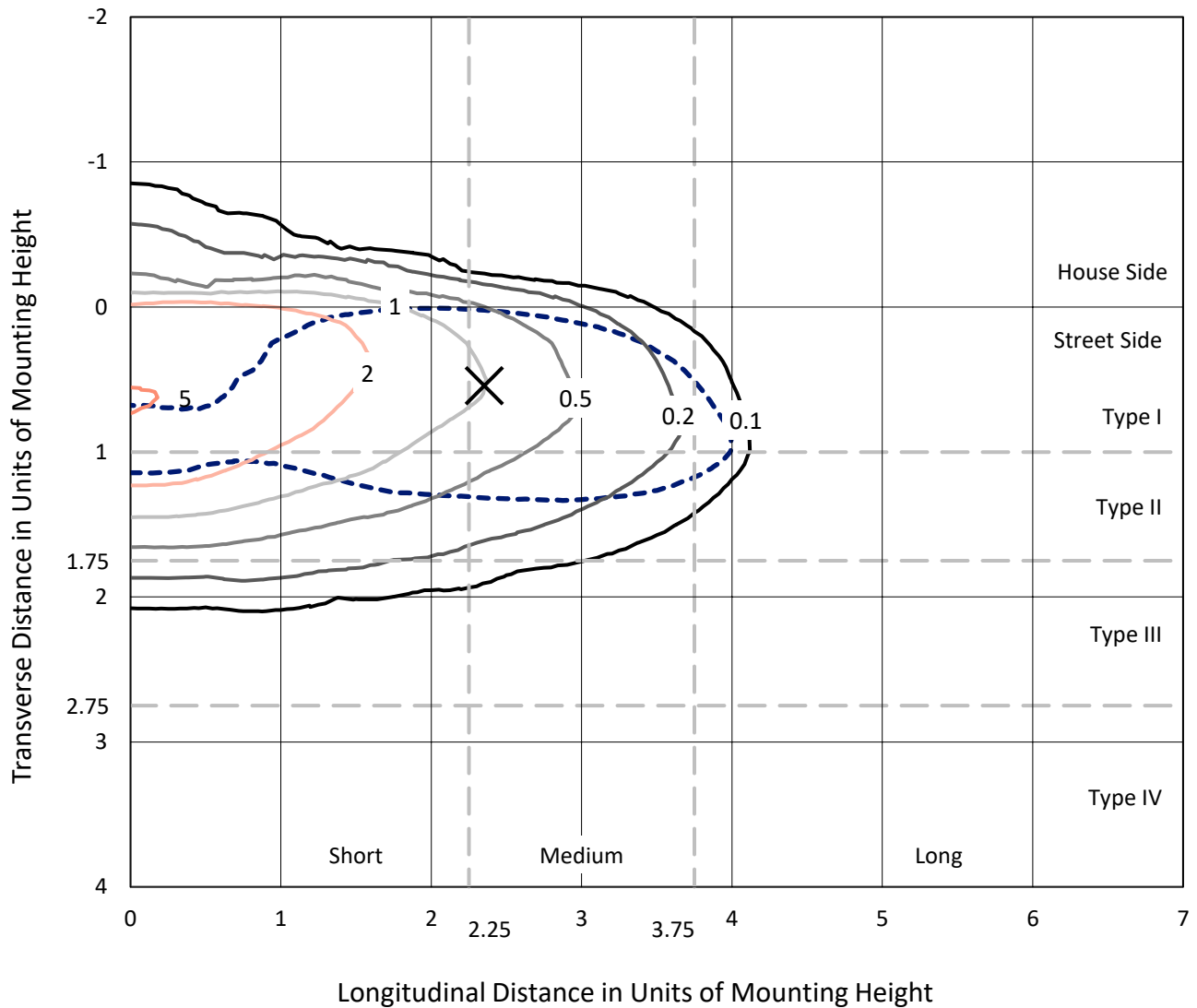
Lumens per Lamp: N/A  
Luminaire Lumens: 12056 lumens  
Efficiency: N/A  
Efficacy: 142.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 84.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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



REPORT NUMBER: P947804  
 CATALOG NUMBER: GALN-SB3A-750-U-T2R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

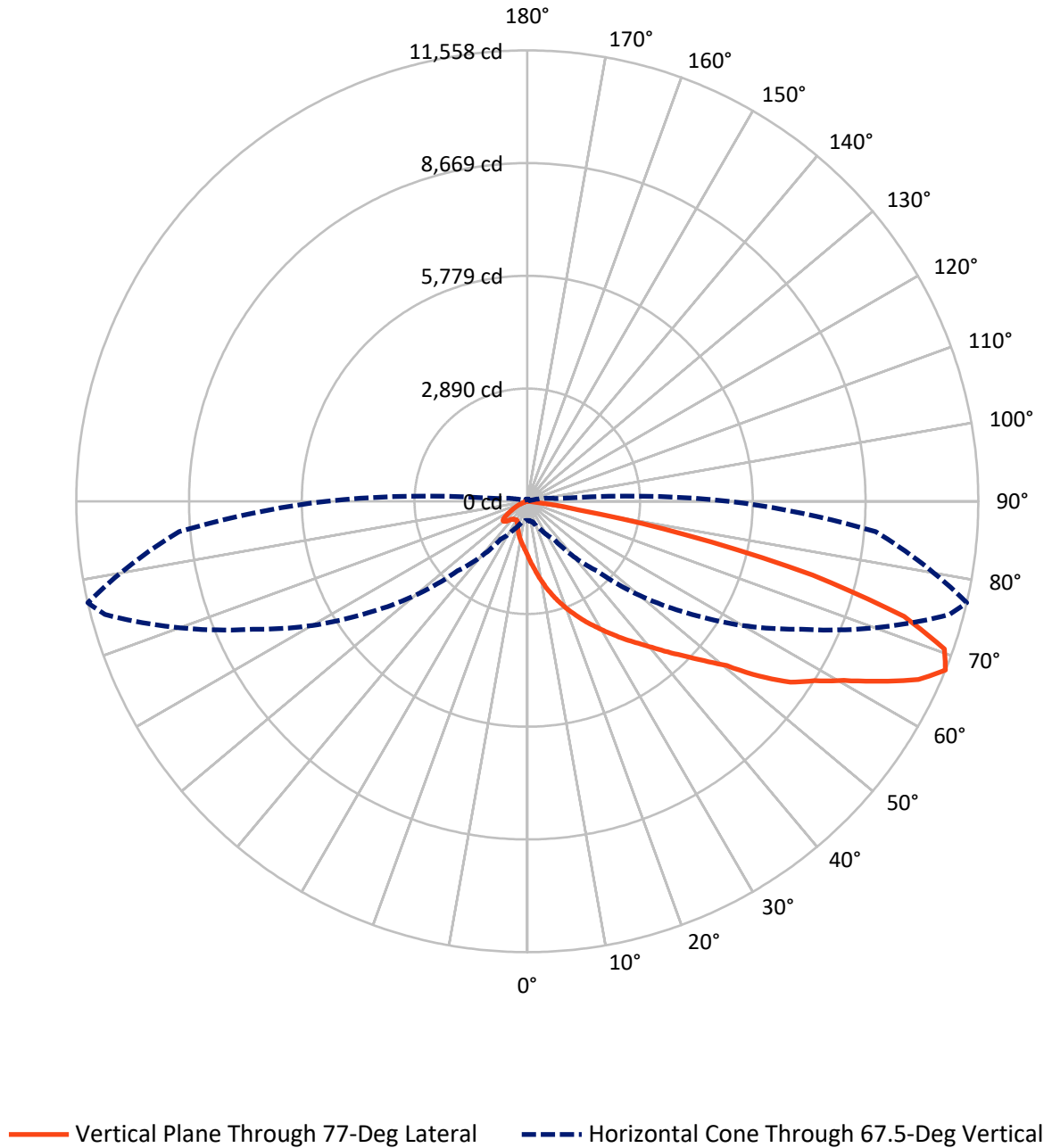
✕ Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P947804  
CATALOG NUMBER: GALN-SB3A-750-U-T2R-HSS

### Luminous Intensity Polar Plot



REPORT NUMBER: P947804  
 CATALOG NUMBER: GALN-SB3A-750-U-T2R-HSS

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 887.0    | 0.0    | 887.0   |
|                    | % Fixture | 7.4      | 0.0    | 7.4     |
| <b>Street Side</b> | Lumens    | 11169.0  | 0.0    | 11169.0 |
|                    | % Fixture | 92.6     | 0.0    | 92.6    |
| <b>Total</b>       | Lumens    | 12056.0  | 0.0    | 12056.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 141.9   | 1.2       |
| 10°-20°   | 496.9   | 4.1       |
| 20°-30°   | 958.9   | 8.0       |
| 30°-40°   | 1664.7  | 13.8      |
| 40°-50°   | 2417.0  | 20.0      |
| 50°-60°   | 2775.7  | 23.0      |
| 60°-70°   | 2409.8  | 20.0      |
| 70°-80°   | 1135.0  | 9.4       |
| 80°-90°   | 56.1    | 0.5       |
| 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°    | 12056.0 | 100.0     |
| 0°-180°   | 12056.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P947804

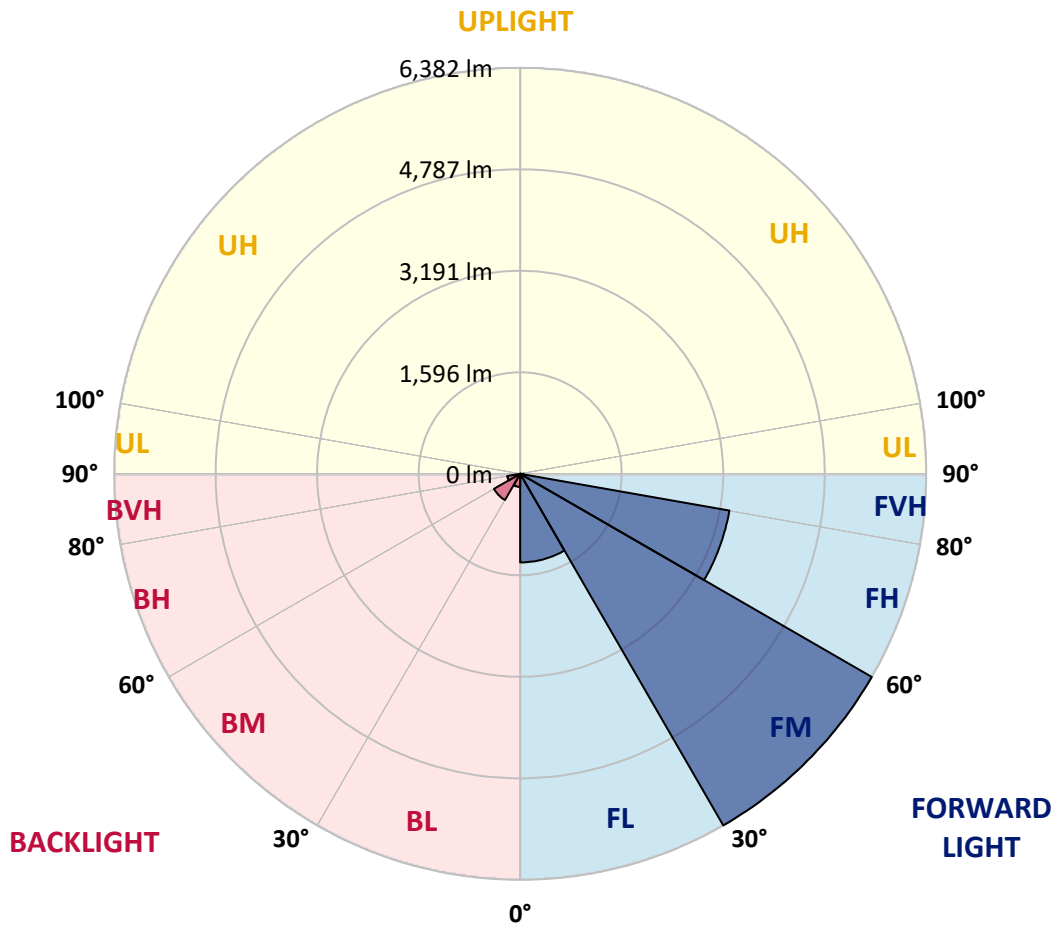
CATALOG NUMBER: GALN-SB3A-750-U-T2R-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1392.3 | 11.5      |                         |      |         |
| FM (30°-60°)   | 6382.1 | 52.9      |                         |      |         |
| FH (60°-80°)   | 3339.5 | 27.7      |                         |      | G2/5000 |
| FVH (80°-90°)  | 55.1   | 0.5       |                         |      | G1/100  |
| BL (0°-30°)    | 205.3  | 1.7       | B1/500                  |      |         |
| BM (30°-60°)   | 475.2  | 3.9       | B1/1000                 |      |         |
| BH (60°-80°)   | 205.3  | 1.7       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 1.0    | 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-G2**

Type II Medium



REPORT NUMBER: P947804

CATALOG NUMBER: GALN-SB3A-750-U-T2R-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°     | 77°     |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| 0°    | 1390.2 | 1390.2 | 1390.2 | 1390.2 | 1390.2 | 1390.2 | 1390.2 | 1390.2 | 1390.2  | 1390.2  |
| 2.5°  | 1924.8 | 1936.7 | 1919.5 | 1886.6 | 1837.2 | 1805.0 | 1726.4 | 1652.3 | 1569.9  | 1543.7  |
| 5°    | 2346.3 | 2356.7 | 2337.3 | 2301.3 | 2235.5 | 2172.6 | 2069.3 | 1914.3 | 1753.3  | 1701.7  |
| 7.5°  | 2658.4 | 2664.4 | 2656.9 | 2624.0 | 2561.1 | 2490.0 | 2374.7 | 2191.3 | 1952.5  | 1895.6  |
| 10°   | 2883.0 | 2902.5 | 2900.3 | 2887.5 | 2845.6 | 2788.0 | 2665.2 | 2456.3 | 2175.6  | 2102.2  |
| 12.5° | 3032.0 | 3053.7 | 3066.5 | 3094.9 | 3092.7 | 3056.0 | 2948.2 | 2727.3 | 2397.9  | 2311.8  |
| 15°   | 3075.4 | 3098.6 | 3147.3 | 3213.2 | 3271.6 | 3290.3 | 3214.7 | 2993.1 | 2642.7  | 2532.7  |
| 17.5° | 3050.7 | 3086.7 | 3145.1 | 3249.1 | 3377.1 | 3461.7 | 3453.5 | 3249.9 | 2865.1  | 2739.3  |
| 20°   | 3105.4 | 3139.8 | 3185.5 | 3273.1 | 3422.1 | 3575.5 | 3636.9 | 3495.4 | 3085.9  | 2954.2  |
| 22.5° | 3407.8 | 3401.8 | 3406.3 | 3420.6 | 3509.6 | 3661.6 | 3788.1 | 3718.5 | 3304.5  | 3169.8  |
| 25°   | 3887.0 | 3860.0 | 3814.3 | 3737.2 | 3714.8 | 3788.1 | 3919.9 | 3916.2 | 3535.1  | 3390.6  |
| 27.5° | 4436.5 | 4432.0 | 4324.9 | 4139.3 | 4034.4 | 4006.0 | 4068.9 | 4108.6 | 3763.4  | 3609.2  |
| 30°   | 4962.8 | 4974.7 | 4830.3 | 4623.6 | 4431.2 | 4319.7 | 4262.8 | 4291.2 | 3995.5  | 3845.0  |
| 32.5° | 5420.9 | 5433.7 | 5276.5 | 5034.6 | 4796.6 | 4661.8 | 4542.0 | 4471.7 | 4248.6  | 4084.6  |
| 35°   | 5808.0 | 5820.7 | 5640.3 | 5373.0 | 5119.2 | 4997.2 | 4861.7 | 4669.3 | 4503.1  | 4350.4  |
| 37.5° | 6153.9 | 6150.1 | 5908.3 | 5638.8 | 5389.5 | 5292.9 | 5221.8 | 4912.6 | 4765.1  | 4617.6  |
| 40°   | 6358.2 | 6374.0 | 6167.3 | 5870.1 | 5628.3 | 5557.9 | 5553.4 | 5214.3 | 5067.6  | 4924.6  |
| 42.5° | 6418.1 | 6445.8 | 6296.1 | 6052.0 | 5832.7 | 5756.3 | 5873.9 | 5540.7 | 5419.4  | 5280.2  |
| 45°   | 6310.3 | 6337.3 | 6269.2 | 6100.0 | 5971.9 | 5922.5 | 6149.4 | 5879.1 | 5795.3  | 5657.5  |
| 47.5° | 5995.9 | 6029.6 | 6046.1 | 6010.1 | 6008.6 | 6058.8 | 6396.4 | 6235.5 | 6241.5  | 6100.7  |
| 50°   | 5387.3 | 5444.1 | 5595.4 | 5722.6 | 5919.5 | 6166.6 | 6636.7 | 6621.8 | 6744.5  | 6623.3  |
| 52.5° | 4280.8 | 4361.6 | 4882.7 | 5230.8 | 5673.2 | 6146.4 | 6901.0 | 7241.6 | 7627.2  | 7449.8  |
| 55°   | 3440.0 | 3440.0 | 3863.8 | 4515.1 | 5192.6 | 6013.1 | 7016.3 | 7644.4 | 8228.4  | 8186.4  |
| 57.5° | 2804.4 | 2838.1 | 3108.4 | 3684.1 | 4497.1 | 5695.7 | 7087.4 | 7897.5 | 8712.7  | 8682.0  |
| 60°   | 1730.9 | 1803.5 | 2314.1 | 2882.3 | 3705.8 | 5130.5 | 7042.5 | 8153.5 | 9300.4  | 9325.1  |
| 62.5° | 974.7  | 1001.7 | 1229.3 | 2073.7 | 2881.5 | 4370.6 | 6698.9 | 8296.5 | 10052.1 | 10156.9 |
| 65°   | 673.0  | 686.5  | 774.1  | 1290.7 | 1997.4 | 3479.7 | 6027.3 | 8207.4 | 10805.2 | 11017.1 |
| 67.5° | 488.9  | 495.6  | 550.3  | 788.3  | 1185.1 | 2522.9 | 4974.7 | 7758.2 | 11204.2 | 11558.3 |
| 70°   | 375.8  | 380.3  | 420.0  | 518.1  | 700.0  | 1557.2 | 3613.0 | 6865.1 | 10915.2 | 11338.2 |
| 72.5° | 305.4  | 309.9  | 340.6  | 383.3  | 464.2  | 920.8  | 2189.8 | 5575.2 | 9639.6  | 10096.2 |
| 75°   | 257.5  | 263.5  | 291.2  | 318.9  | 363.8  | 591.4  | 1027.1 | 3882.5 | 7249.1  | 7548.6  |
| 77.5° | 143.0  | 131.8  | 236.6  | 264.3  | 306.9  | 374.3  | 480.6  | 2284.9 | 4059.9  | 4143.0  |
| 80°   | 89.1   | 92.1   | 187.9  | 212.6  | 235.8  | 188.7  | 220.1  | 879.7  | 1407.5  | 1337.1  |
| 82.5° | 5.2    | 12.0   | 144.5  | 153.5  | 161.7  | 80.9   | 83.1   | 298.7  | 339.1   | 311.4   |
| 85°   | 0.0    | 0.0    | 65.9   | 53.2   | 56.1   | 23.2   | 24.0   | 69.6   | 45.7    | 49.4    |
| 87.5° | 0.0    | 0.0    | 0.0    | 1.5    | 0.0    | 2.2    | 4.5    | 6.0    | 2.2     | 3.0     |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     |

REPORT NUMBER: P947804  
 CATALOG NUMBER: GALN-SB3A-750-U-T2R-HSS

**CANDELA DISTRIBUTION (continued):**

| 85°    |       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1390.2 | 0°    | 1390.2 | 1390.2 | 1390.2 | 1390.2 | 1390.2 | 1390.2 | 1390.2 | 1390.2 | 1390.2 | 1390.2 |
| 1461.4 | 2.5°  | 1409.0 | 1356.5 | 1250.2 | 1146.2 | 1061.6 | 983.0  | 926.8  | 873.7  | 846.7  | 845.2  |
| 1555.7 | 5°    | 1451.6 | 1341.6 | 1129.0 | 941.0  | 789.8  | 668.5  | 589.9  | 533.8  | 505.3  | 495.6  |
| 1671.7 | 7.5°  | 1511.5 | 1346.1 | 1022.6 | 761.4  | 583.2  | 479.1  | 434.2  | 416.2  | 410.3  | 403.5  |
| 1802.7 | 10°   | 1587.1 | 1356.5 | 927.6  | 613.1  | 459.7  | 407.3  | 389.3  | 381.8  | 377.3  | 372.8  |
| 1950.2 | 12.5° | 1671.7 | 1366.3 | 833.2  | 509.1  | 404.3  | 377.3  | 364.6  | 355.6  | 349.6  | 344.4  |
| 2101.4 | 15°   | 1754.1 | 1372.3 | 735.2  | 436.5  | 375.8  | 354.1  | 340.6  | 330.9  | 322.7  | 316.7  |
| 2249.7 | 17.5° | 1835.7 | 1380.5 | 643.1  | 393.0  | 352.6  | 330.9  | 317.4  | 305.4  | 298.7  | 292.0  |
| 2405.4 | 20°   | 1926.3 | 1379.0 | 556.2  | 362.3  | 329.4  | 307.7  | 293.5  | 282.2  | 275.5  | 268.0  |
| 2570.1 | 22.5° | 2010.1 | 1371.5 | 479.9  | 336.1  | 305.4  | 284.5  | 268.8  | 257.5  | 250.8  | 244.8  |
| 2738.5 | 25°   | 2106.7 | 1365.5 | 416.2  | 312.2  | 283.0  | 262.0  | 244.8  | 234.3  | 226.8  | 221.6  |
| 2907.7 | 27.5° | 2199.5 | 1356.5 | 369.8  | 290.5  | 261.3  | 241.1  | 224.6  | 212.6  | 205.9  | 202.1  |
| 3082.2 | 30°   | 2290.9 | 1354.3 | 352.6  | 269.5  | 241.8  | 221.6  | 205.1  | 193.9  | 188.7  | 187.2  |
| 3273.8 | 32.5° | 2400.9 | 1360.3 | 360.1  | 262.0  | 223.8  | 203.6  | 187.9  | 179.7  | 174.4  | 174.4  |
| 3487.2 | 35°   | 2518.4 | 1358.8 | 371.3  | 268.8  | 211.9  | 185.7  | 173.7  | 168.4  | 163.2  | 163.2  |
| 3723.8 | 37.5° | 2665.9 | 1361.0 | 380.3  | 280.0  | 207.4  | 170.7  | 164.0  | 157.2  | 154.2  | 154.2  |
| 3982.8 | 40°   | 2886.0 | 1435.2 | 375.8  | 289.7  | 205.9  | 160.2  | 146.7  | 144.5  | 142.2  | 142.2  |
| 4275.5 | 42.5° | 3155.5 | 1596.1 | 381.8  | 290.5  | 205.1  | 152.7  | 134.8  | 139.2  | 134.0  | 133.3  |
| 4605.7 | 45°   | 3450.5 | 1772.0 | 420.0  | 274.8  | 204.4  | 149.0  | 128.8  | 134.0  | 125.8  | 125.8  |
| 4988.2 | 47.5° | 3743.2 | 1946.5 | 458.9  | 252.3  | 202.1  | 148.2  | 123.5  | 120.5  | 118.3  | 119.0  |
| 5486.8 | 50°   | 4146.7 | 2088.7 | 473.9  | 221.6  | 196.9  | 146.7  | 113.8  | 114.5  | 113.0  | 114.5  |
| 6189.8 | 52.5° | 4586.2 | 2118.7 | 455.9  | 187.2  | 181.9  | 142.2  | 107.1  | 110.1  | 109.3  | 110.8  |
| 6684.7 | 55°   | 4860.2 | 2086.5 | 376.6  | 155.7  | 158.7  | 124.3  | 100.3  | 106.3  | 106.3  | 106.3  |
| 7168.3 | 57.5° | 5143.2 | 1949.5 | 267.3  | 126.5  | 131.8  | 101.8  | 94.3   | 102.6  | 101.8  | 101.1  |
| 7750.7 | 60°   | 5346.8 | 1727.9 | 175.9  | 104.1  | 104.8  | 83.8   | 87.6   | 96.6   | 95.8   | 92.1   |
| 8351.1 | 62.5° | 5498.8 | 1483.1 | 113.0  | 88.3   | 80.1   | 75.6   | 80.1   | 87.6   | 84.6   | 76.4   |
| 8860.2 | 65°   | 5481.6 | 1143.9 | 86.8   | 75.6   | 65.9   | 65.9   | 69.6   | 76.4   | 67.4   | 53.9   |
| 8957.5 | 67.5° | 5161.9 | 774.1  | 71.9   | 63.6   | 55.4   | 54.7   | 57.6   | 63.6   | 57.6   | 45.7   |
| 8458.9 | 70°   | 4590.7 | 506.1  | 57.6   | 49.4   | 44.2   | 40.4   | 46.4   | 54.7   | 48.7   | 36.7   |
| 7201.2 | 72.5° | 3726.0 | 308.4  | 43.4   | 35.9   | 32.2   | 26.2   | 36.7   | 44.9   | 38.9   | 27.0   |
| 5007.7 | 75°   | 2410.6 | 157.2  | 29.9   | 23.2   | 17.2   | 15.7   | 27.0   | 33.7   | 27.0   | 16.5   |
| 2222.0 | 77.5° | 922.3  | 65.9   | 16.5   | 10.5   | 9.0    | 7.5    | 15.0   | 20.2   | 11.2   | 3.7    |
| 430.5  | 80°   | 177.4  | 27.7   | 8.2    | 5.2    | 4.5    | 3.0    | 2.2    | 1.5    | 0.0    | 0.0    |
| 76.4   | 82.5° | 30.7   | 9.0    | 3.0    | 1.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 15.0   | 85°   | 10.5   | 1.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 5.2    | 87.5° | 3.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 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    |

(END O

|        |
|--------|
| 180°   |
| <hr/>  |
| 1390.2 |
| 843.7  |
| 494.1  |
| 402.0  |
| 371.3  |
| 342.9  |
| 315.9  |
| 291.2  |
| 267.3  |
| 244.1  |
| 220.9  |
| 202.1  |
| 186.4  |
| 174.4  |
| 163.2  |
| 154.2  |
| 142.2  |
| 132.5  |
| 125.8  |
| 119.0  |
| 114.5  |
| 110.8  |
| 106.3  |
| 101.1  |
| 92.1   |
| 74.9   |
| 52.4   |
| 44.2   |
| 35.2   |
| 25.5   |
| 14.2   |
| 3.0    |
| 0.0    |
| 0.0    |
| 0.0    |
| 0.0    |
| 0.0    |

F REPORT)