

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: P532923

Luminaire Tested: **GALN-SA8B-740-U-T3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532923  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8B-740-U-T3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27439 lumens  
Efficiency: N/A  
Efficacy: 84.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

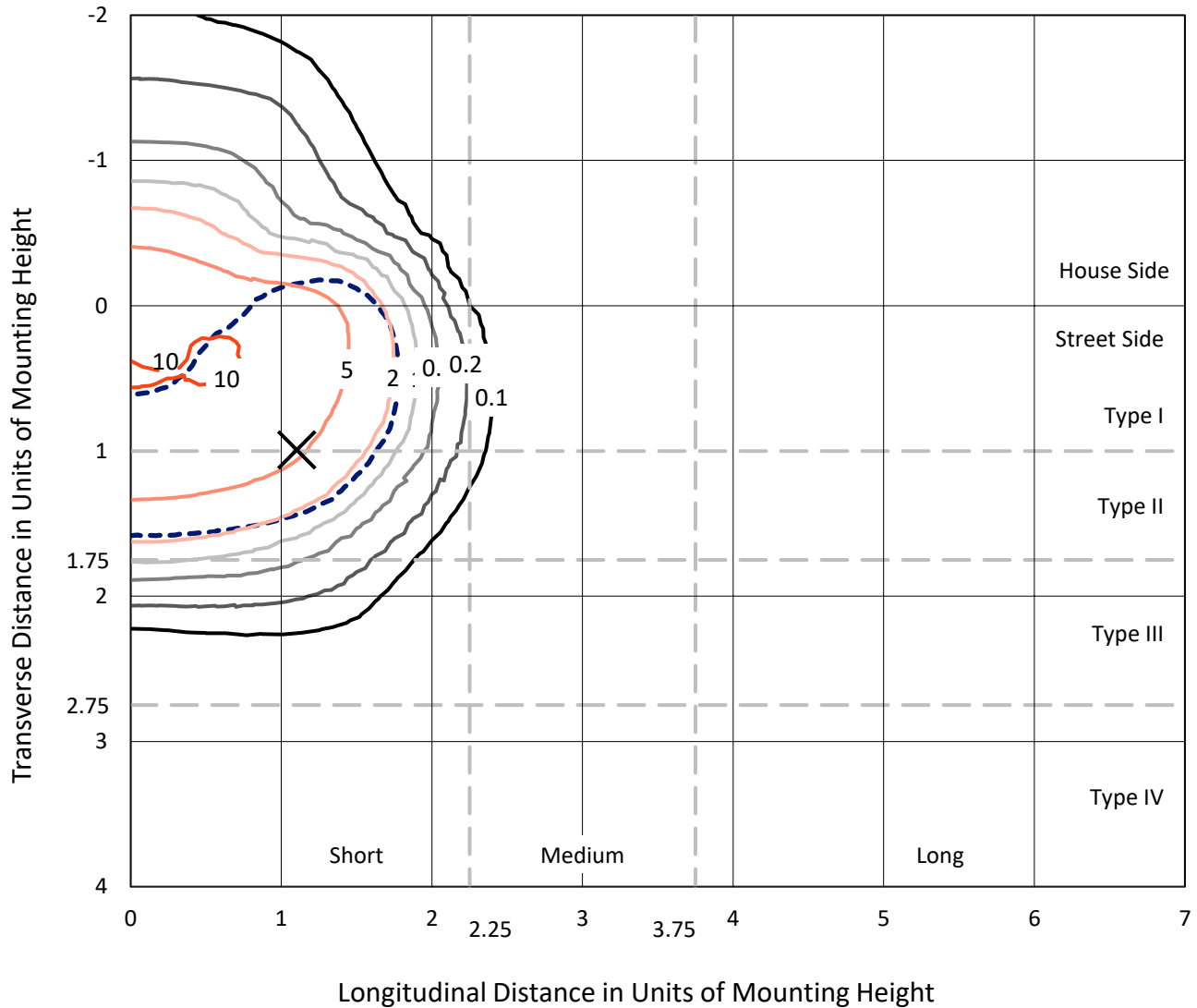
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P532923  
 CATALOG NUMBER: GALN-SA8B-740-U-T3-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

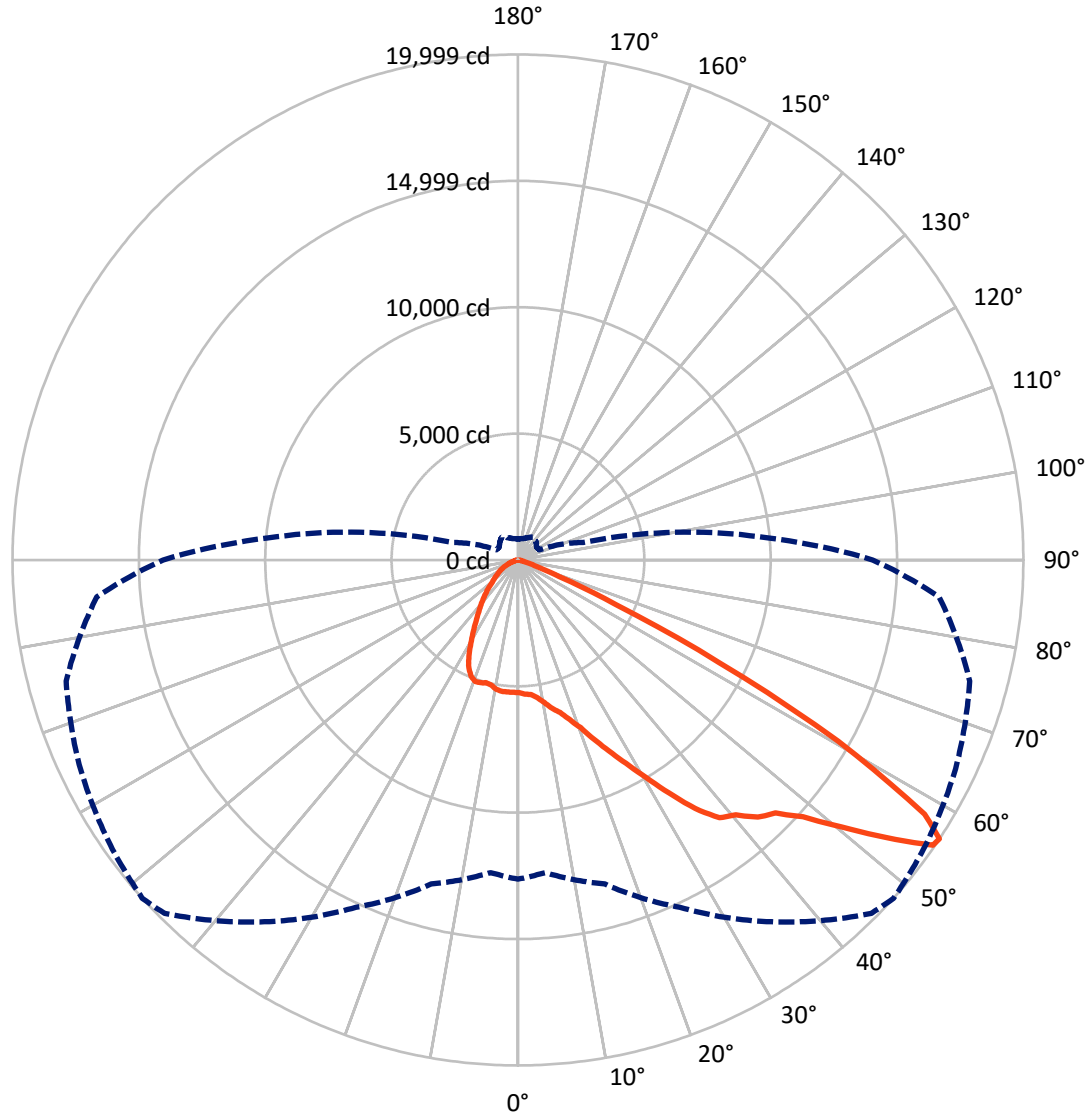
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc  
 Type II - Short - N/A

REPORT NUMBER: P532923  
CATALOG NUMBER: GALN-SA8B-740-U-T3-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P532923  
 CATALOG NUMBER: GALN-SA8B-740-U-T3-GRSBK

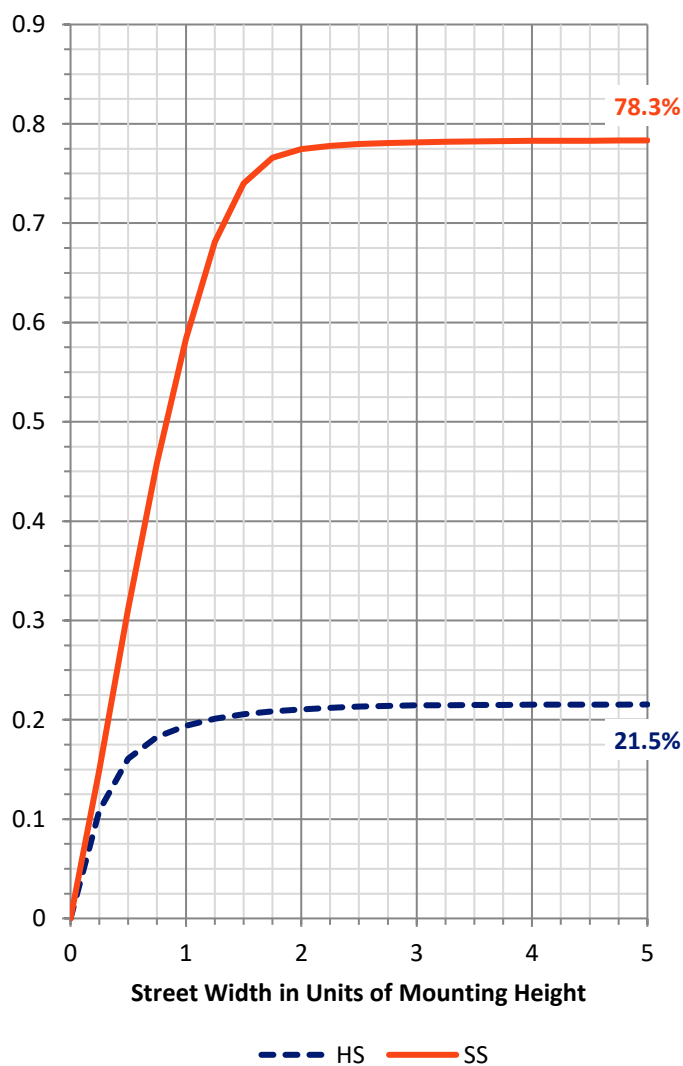
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5967.5   | 0.0    | 5967.5  |
|                    | % Fixture | 21.7     | 0.0    | 21.7    |
| <b>Street Side</b> | Lumens    | 21471.5  | 0.0    | 21471.5 |
|                    | % Fixture | 78.3     | 0.0    | 78.3    |
| <b>Total</b>       | Lumens    | 27439.0  | 0.0    | 27439.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 510.5   | 1.9       |
| 10°-20°   | 1631.5  | 5.9       |
| 20°-30°   | 2959.3  | 10.8      |
| 30°-40°   | 4648.4  | 16.9      |
| 40°-50°   | 6781.2  | 24.7      |
| 50°-60°   | 8170.0  | 29.8      |
| 60°-70°   | 2392.1  | 8.7       |
| 70°-80°   | 303.5   | 1.1       |
| 80°-90°   | 42.6    | 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°    | 27439.0 | 100.0     |
| 0°-180°   | 27439.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P532923

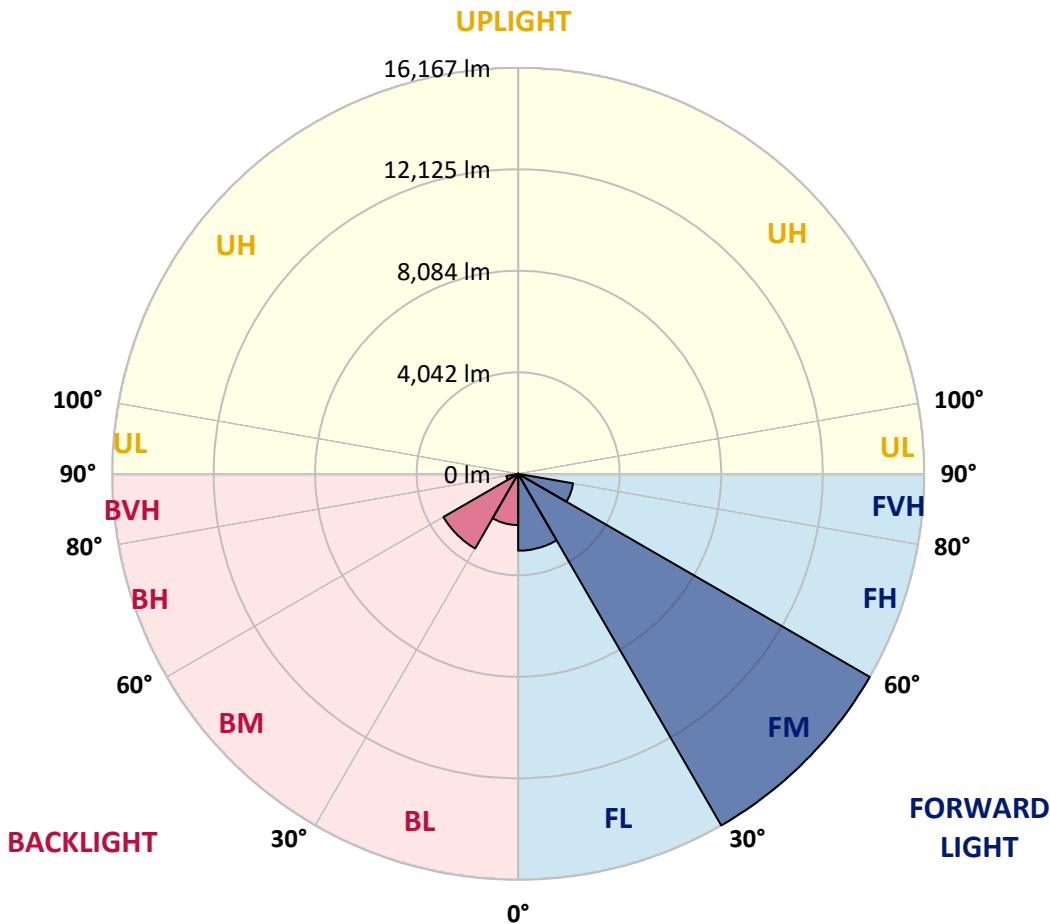
CATALOG NUMBER: GALN-SA8B-740-U-T3-GRSBK

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

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 3061.6  | 11.2      |                         |      |         |
| FM (30°-60°)   | 16167.1 | 58.9      |                         |      |         |
| FH (60°-80°)   | 2221.4  | 8.1       |                         |      | G2/5000 |
| FVH (80°-90°)  | 21.4    | 0.1       |                         |      | G1/100  |
| BL (0°-30°)    | 2039.7  | 7.4       | B3/2500                 |      |         |
| BM (30°-60°)   | 3432.5  | 12.5      | B3/5000                 |      |         |
| BH (60°-80°)   | 474.2   | 1.7       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 21.2    | 0.1       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G2**

Type II Short





REPORT NUMBER: P532923

CATALOG NUMBER: GALN-SA8B-740-U-T3-GRSBK

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 48°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5240.9  | 5240.9  | 5240.9  | 5240.9  | 5240.9  | 5240.9  | 5240.9  | 5240.9  | 5240.9  | 5240.9  | 5240.9  |
| 2.5°  | 5335.8  | 5310.8  | 5310.8  | 5270.8  | 5315.8  | 5295.8  | 5310.8  | 5260.8  | 5310.8  | 5235.9  | 5295.8  |
| 5°    | 5360.8  | 5365.8  | 5345.8  | 5370.8  | 5370.8  | 5400.7  | 5350.8  | 5395.7  | 5420.7  | 5365.8  | 5340.8  |
| 7.5°  | 5490.7  | 5500.7  | 5495.7  | 5475.7  | 5515.6  | 5510.6  | 5505.7  | 5470.7  | 5480.7  | 5460.7  | 5430.7  |
| 10°   | 5745.5  | 5740.5  | 5765.4  | 5715.5  | 5685.5  | 5720.5  | 5730.5  | 5675.5  | 5635.5  | 5620.6  | 5525.6  |
| 12.5° | 6115.2  | 6055.2  | 6020.2  | 5970.3  | 5985.3  | 5935.3  | 6025.2  | 5930.3  | 5910.3  | 5820.4  | 5725.5  |
| 15°   | 6414.9  | 6404.9  | 6409.9  | 6330.0  | 6240.1  | 6260.1  | 6260.1  | 6210.1  | 6180.1  | 6070.2  | 5935.3  |
| 17.5° | 7029.4  | 6819.6  | 6864.6  | 6764.7  | 6689.7  | 6684.7  | 6639.8  | 6649.7  | 6569.8  | 6340.0  | 6135.2  |
| 20°   | 7509.1  | 7419.1  | 7349.2  | 7179.3  | 7064.4  | 7099.4  | 7079.4  | 7029.4  | 7004.5  | 6704.7  | 6414.9  |
| 22.5° | 7938.7  | 7968.7  | 7853.8  | 7808.8  | 7649.0  | 7663.9  | 7703.9  | 7659.0  | 7469.1  | 7159.3  | 6729.7  |
| 25°   | 8543.3  | 8508.3  | 8353.4  | 8298.4  | 8148.6  | 8203.5  | 8358.4  | 8323.4  | 8203.5  | 7644.0  | 6974.5  |
| 27.5° | 9257.7  | 9137.8  | 9167.8  | 8918.0  | 8773.1  | 8927.9  | 9112.8  | 9287.7  | 8947.9  | 8213.5  | 7264.3  |
| 30°   | 9762.3  | 9637.4  | 9627.4  | 9617.4  | 9582.4  | 9762.3  | 9977.1  | 10137.0 | 9862.2  | 8783.1  | 7743.9  |
| 32.5° | 10012.1 | 10042.1 | 10127.0 | 10097.0 | 10401.8 | 10771.5 | 10996.3 | 11226.1 | 10881.4 | 9712.3  | 8378.4  |
| 35°   | 10676.6 | 10486.7 | 10676.6 | 10696.6 | 11011.3 | 11795.7 | 12080.5 | 12630.0 | 12545.1 | 11026.3 | 9152.8  |
| 37.5° | 11066.3 | 11051.3 | 11076.3 | 11266.1 | 11570.9 | 12540.1 | 12944.8 | 13369.4 | 13209.6 | 11815.7 | 10117.0 |
| 40°   | 11710.8 | 11750.7 | 11745.7 | 11890.6 | 12225.3 | 13099.7 | 13264.5 | 13609.3 | 13624.2 | 12909.8 | 11535.9 |
| 42.5° | 12744.9 | 12585.1 | 12480.1 | 12630.0 | 13099.7 | 13584.3 | 13914.0 | 13844.1 | 14338.7 | 14238.8 | 13359.4 |
| 45°   | 13674.2 | 13769.1 | 13614.2 | 13864.1 | 14033.9 | 14293.7 | 14283.7 | 14433.6 | 15063.1 | 15537.7 | 14733.4 |
| 47.5° | 14543.5 | 14603.5 | 14678.4 | 14848.3 | 15218.0 | 15257.9 | 15173.0 | 15108.1 | 15977.4 | 16467.0 | 15797.5 |
| 50°   | 15063.1 | 15118.1 | 15467.8 | 15772.5 | 16462.0 | 16551.9 | 16601.9 | 16437.0 | 17026.6 | 17081.5 | 16801.7 |
| 52.5° | 14923.2 | 14983.2 | 15472.8 | 16477.0 | 17576.1 | 18400.5 | 18250.6 | 17970.8 | 17935.8 | 18150.7 | 17731.0 |
| 55°   | 13684.2 | 13629.2 | 14303.7 | 15867.5 | 17925.8 | 19904.3 | 19924.3 | 19629.5 | 19064.9 | 18920.1 | 17591.1 |
| 56°   | 12630.0 | 12415.2 | 13274.5 | 15163.0 | 17476.2 | 19774.4 | 19999.2 | 19684.5 | 19154.9 | 18505.4 | 16726.8 |
| 57.5° | 10346.8 | 10551.7 | 11406.0 | 12969.8 | 15922.4 | 18840.1 | 18970.0 | 18895.1 | 18495.4 | 17406.3 | 14718.4 |
| 60°   | 5705.5  | 6065.2  | 6819.6  | 8733.1  | 11336.0 | 14458.6 | 14563.5 | 15173.0 | 15248.0 | 13329.5 | 10127.0 |
| 62.5° | 2423.1  | 2383.1  | 3167.5  | 4576.4  | 6454.9  | 8728.1  | 8923.0  | 9547.5  | 9662.4  | 7683.9  | 5081.0  |
| 65°   | 984.2   | 1039.2  | 1433.9  | 2303.2  | 3412.3  | 3976.9  | 4251.6  | 4456.5  | 4836.2  | 3172.5  | 1873.5  |
| 67.5° | 649.5   | 644.5   | 844.3   | 1314.0  | 1838.5  | 1773.6  | 1773.6  | 1873.5  | 1733.6  | 1294.0  | 809.4   |
| 70°   | 464.6   | 479.6   | 604.5   | 909.3   | 1144.1  | 849.3   | 814.4   | 779.4   | 884.3   | 854.3   | 654.5   |
| 72.5° | 304.8   | 324.7   | 404.7   | 544.6   | 594.5   | 464.6   | 464.6   | 559.6   | 729.4   | 689.5   | 534.6   |
| 75°   | 199.8   | 204.8   | 249.8   | 314.8   | 294.8   | 239.8   | 264.8   | 374.7   | 529.6   | 509.6   | 379.7   |
| 77.5° | 134.9   | 139.9   | 169.9   | 204.8   | 164.9   | 134.9   | 144.9   | 189.9   | 259.8   | 259.8   | 199.8   |
| 80°   | 50.0    | 55.0    | 69.9    | 64.9    | 74.9    | 94.9    | 104.9   | 129.9   | 154.9   | 154.9   | 134.9   |
| 82.5° | 0.0     | 5.0     | 15.0    | 35.0    | 55.0    | 74.9    | 84.9    | 99.9    | 114.9   | 129.9   | 124.9   |
| 85°   | 0.0     | 5.0     | 15.0    | 25.0    | 40.0    | 45.0    | 50.0    | 35.0    | 30.0    | 30.0    | 25.0    |
| 87.5° | 0.0     | 0.0     | 5.0     | 5.0     | 5.0     | 5.0     | 5.0     | 5.0     | 10.0    | 5.0     | 5.0     |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |



REPORT NUMBER: P532923

CATALOG NUMBER: GALN-SA8B-740-U-T3-GRSBK

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 5240.9  | 5240.9  | 5240.9 | 5240.9 | 5240.9 | 5240.9 | 5240.9 | 5240.9 | 5240.9 | 5240.9 | 5240.9 |
| 2.5°  | 5240.9  | 5235.9  | 5235.9 | 5220.9 | 5250.9 | 5235.9 | 5245.9 | 5240.9 | 5175.9 | 5225.9 | 5190.9 |
| 5°    | 5295.8  | 5330.8  | 5275.8 | 5265.8 | 5225.9 | 5240.9 | 5240.9 | 5190.9 | 5235.9 | 5230.9 | 5220.9 |
| 7.5°  | 5435.7  | 5375.8  | 5315.8 | 5255.8 | 5245.9 | 5230.9 | 5175.9 | 5155.9 | 5190.9 | 5150.9 | 5210.9 |
| 10°   | 5495.7  | 5505.7  | 5415.7 | 5335.8 | 5260.8 | 5155.9 | 5081.0 | 5036.0 | 4981.1 | 5041.0 | 5076.0 |
| 12.5° | 5770.4  | 5670.5  | 5515.6 | 5390.7 | 5135.9 | 5031.0 | 4956.1 | 4936.1 | 5031.0 | 5051.0 | 5016.0 |
| 15°   | 5865.4  | 5850.4  | 5650.5 | 5370.8 | 5106.0 | 4981.1 | 4996.1 | 4956.1 | 4966.1 | 4916.1 | 4926.1 |
| 17.5° | 6060.2  | 5890.3  | 5655.5 | 5305.8 | 5101.0 | 5071.0 | 4981.1 | 4821.2 | 4731.3 | 4691.3 | 4726.3 |
| 20°   | 6275.0  | 6110.2  | 5770.4 | 5330.8 | 5145.9 | 5066.0 | 4771.2 | 4576.4 | 4391.5 | 4291.6 | 4296.6 |
| 22.5° | 6464.9  | 6260.1  | 5720.5 | 5340.8 | 5185.9 | 4856.2 | 4501.4 | 4116.7 | 3886.9 | 3732.1 | 3737.0 |
| 25°   | 6694.7  | 6404.9  | 5740.5 | 5360.8 | 5081.0 | 4521.4 | 4011.8 | 3637.1 | 3362.3 | 3257.4 | 3292.4 |
| 27.5° | 6824.6  | 6494.9  | 5850.4 | 5405.7 | 4806.2 | 4046.8 | 3497.2 | 3147.5 | 2987.6 | 2937.7 | 2932.7 |
| 30°   | 7214.3  | 6694.7  | 5985.3 | 5315.8 | 4346.6 | 3537.2 | 3027.6 | 2812.8 | 2657.9 | 2612.9 | 2622.9 |
| 32.5° | 7793.8  | 7059.4  | 6160.1 | 5081.0 | 3876.9 | 3082.6 | 2722.8 | 2563.0 | 2418.1 | 2333.2 | 2323.2 |
| 35°   | 8278.5  | 7683.9  | 6345.0 | 4716.3 | 3332.4 | 2732.8 | 2508.0 | 2308.2 | 2088.4 | 1993.4 | 1968.4 |
| 37.5° | 9202.7  | 8388.4  | 6305.0 | 4166.7 | 2812.8 | 2473.0 | 2278.2 | 2033.4 | 1843.5 | 1713.6 | 1698.7 |
| 40°   | 10431.8 | 9212.7  | 6110.2 | 3497.2 | 2428.1 | 2243.2 | 2033.4 | 1798.6 | 1563.8 | 1453.9 | 1443.9 |
| 42.5° | 11925.6 | 10221.9 | 5755.5 | 2817.8 | 2043.4 | 2013.4 | 1823.6 | 1553.8 | 1343.9 | 1264.0 | 1269.0 |
| 45°   | 13139.6 | 11086.2 | 5395.7 | 2263.2 | 1758.6 | 1788.6 | 1623.7 | 1368.9 | 1224.0 | 1159.1 | 1159.1 |
| 47.5° | 14218.8 | 11670.8 | 5006.0 | 1868.5 | 1493.8 | 1563.8 | 1418.9 | 1269.0 | 1144.1 | 1094.1 | 1084.1 |
| 50°   | 15257.9 | 12265.3 | 4616.4 | 1513.8 | 1274.0 | 1343.9 | 1329.0 | 1209.0 | 1109.1 | 1049.2 | 1054.2 |
| 52.5° | 15907.4 | 12360.2 | 4121.7 | 1239.0 | 1114.1 | 1194.1 | 1244.0 | 1134.1 | 1024.2 | 989.2  | 979.2  |
| 55°   | 15113.1 | 11136.2 | 3197.5 | 1019.2 | 944.3  | 1049.2 | 1144.1 | 1019.2 | 934.3  | 874.3  | 869.3  |
| 56°   | 14043.9 | 9957.1  | 2672.9 | 939.3  | 894.3  | 1009.2 | 1109.1 | 974.2  | 879.3  | 844.3  | 819.4  |
| 57.5° | 11890.6 | 8148.6  | 1973.4 | 834.3  | 829.3  | 939.3  | 1054.2 | 929.3  | 819.4  | 789.4  | 789.4  |
| 60°   | 7414.1  | 4586.4  | 1194.1 | 699.4  | 719.4  | 834.3  | 949.3  | 829.3  | 729.4  | 729.4  | 744.4  |
| 62.5° | 3377.3  | 1908.5  | 724.4  | 594.5  | 619.5  | 719.4  | 844.3  | 749.4  | 694.5  | 749.4  | 759.4  |
| 65°   | 1149.1  | 824.3   | 524.6  | 474.6  | 489.6  | 594.5  | 724.4  | 759.4  | 754.4  | 789.4  | 809.4  |
| 67.5° | 644.5   | 529.6   | 439.7  | 394.7  | 384.7  | 439.7  | 594.5  | 759.4  | 729.4  | 714.4  | 724.4  |
| 70°   | 544.6   | 449.6   | 389.7  | 349.7  | 334.7  | 354.7  | 459.6  | 574.5  | 514.6  | 499.6  | 489.6  |
| 72.5° | 439.7   | 374.7   | 339.7  | 314.8  | 269.8  | 229.8  | 209.8  | 219.8  | 244.8  | 259.8  | 284.8  |
| 75°   | 309.8   | 284.8   | 284.8  | 254.8  | 194.8  | 144.9  | 114.9  | 94.9   | 64.9   | 45.0   | 50.0   |
| 77.5° | 174.9   | 174.9   | 179.9  | 154.9  | 124.9  | 94.9   | 69.9   | 50.0   | 25.0   | 10.0   | 5.0    |
| 80°   | 119.9   | 129.9   | 139.9  | 124.9  | 104.9  | 84.9   | 60.0   | 35.0   | 15.0   | 0.0    | 0.0    |
| 82.5° | 119.9   | 134.9   | 144.9  | 124.9  | 104.9  | 79.9   | 60.0   | 35.0   | 15.0   | 5.0    | 0.0    |
| 85°   | 25.0    | 30.0    | 35.0   | 40.0   | 60.0   | 60.0   | 45.0   | 30.0   | 15.0   | 5.0    | 0.0    |
| 87.5° | 5.0     | 5.0     | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 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)