

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: P533393

Luminaire Tested: **GALN-SA8D-740-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533393  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8D-740-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37991 lumens  
Efficiency: N/A  
Efficacy: 77.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G2

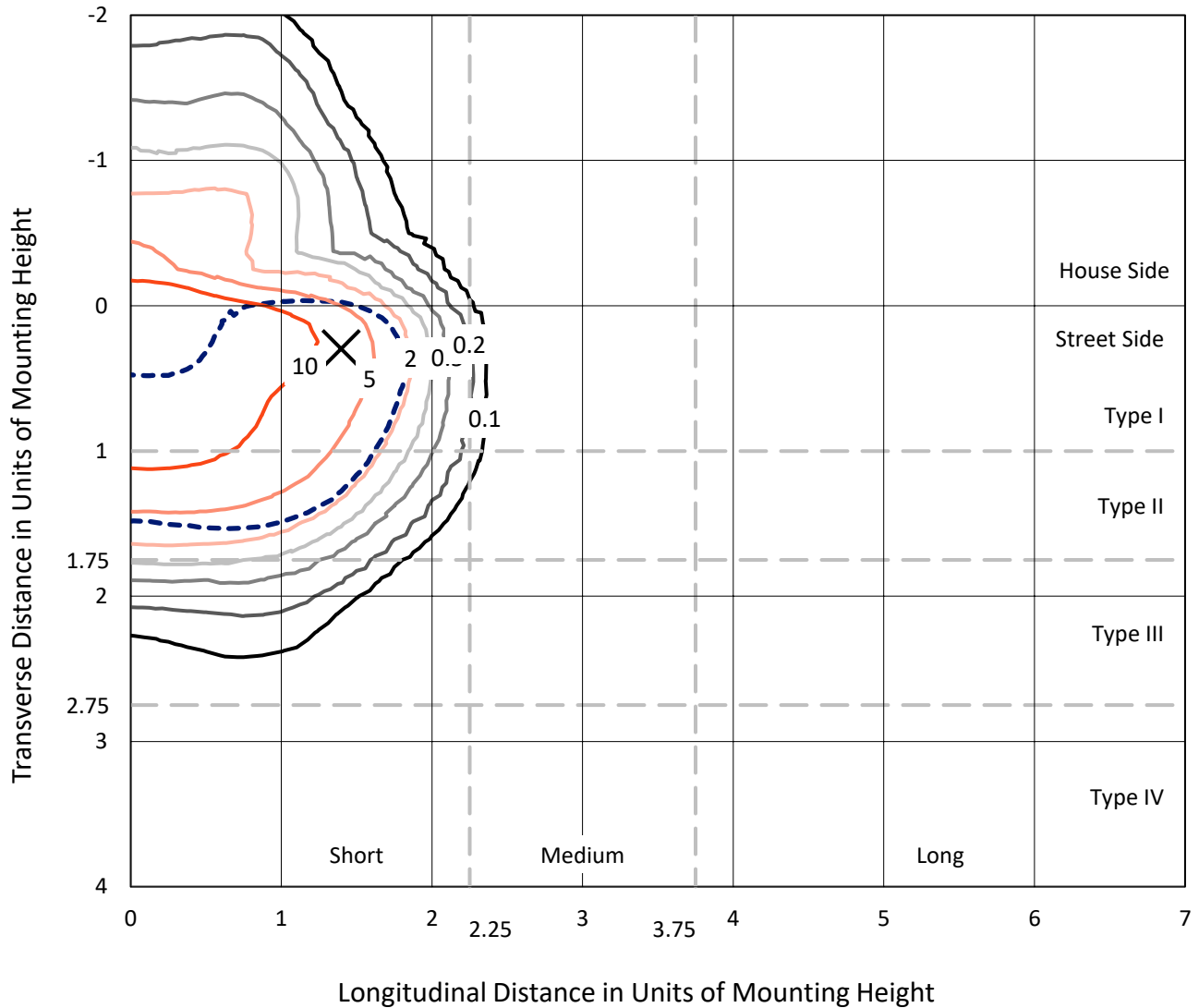
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P533393  
 CATALOG NUMBER: GALN-SA8D-740-U-T3R-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

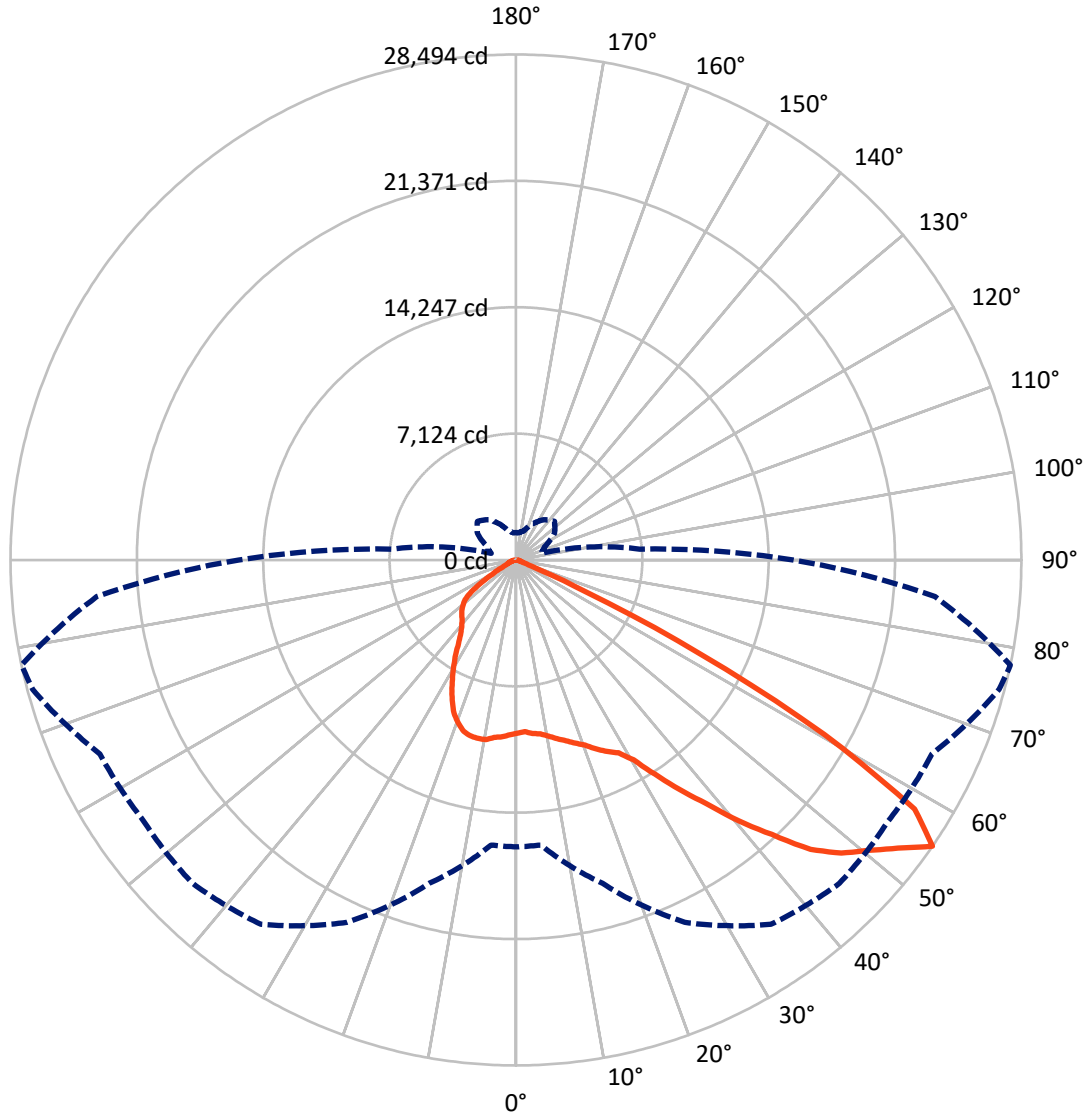
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 fc  
 Type II - Short - N/A

REPORT NUMBER: P533393  
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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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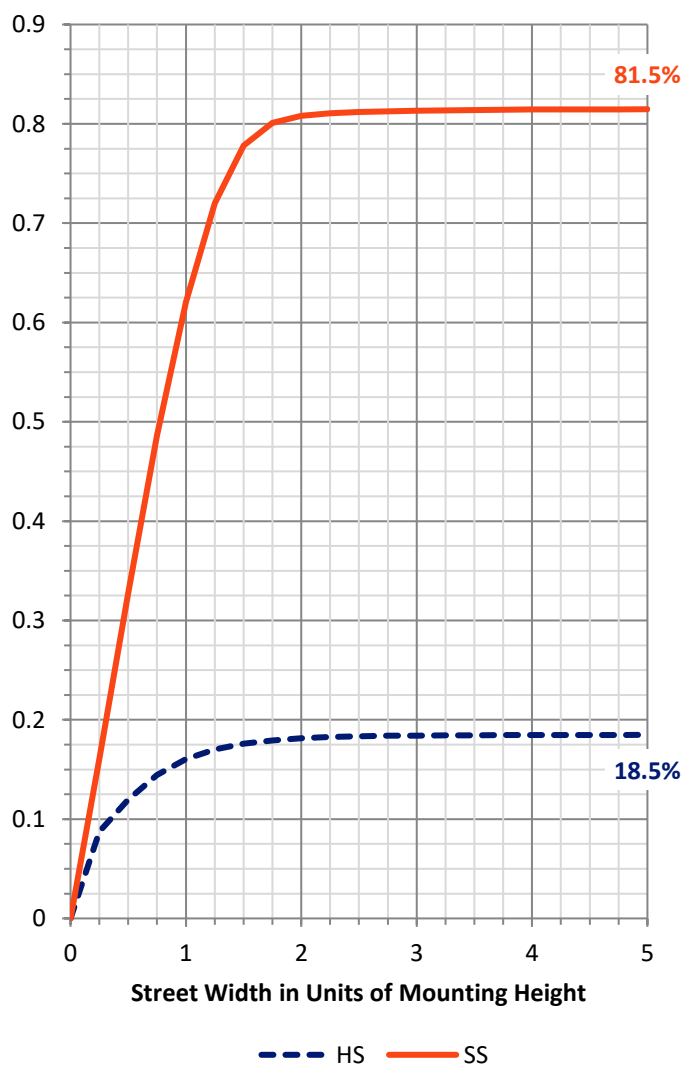
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7056.4   | 0.0    | 7056.4  |
|                    | % Fixture | 18.6     | 0.0    | 18.6    |
| <b>Street Side</b> | Lumens    | 30934.6  | 0.0    | 30934.6 |
|                    | % Fixture | 81.4     | 0.0    | 81.4    |
| <b>Total</b>       | Lumens    | 37991.0  | 0.0    | 37991.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 871.0   | 2.3       |
| 10°-20°   | 2305.0  | 6.1       |
| 20°-30°   | 4040.2  | 10.6      |
| 30°-40°   | 6661.8  | 17.5      |
| 40°-50°   | 9693.8  | 25.5      |
| 50°-60°   | 10984.1 | 28.9      |
| 60°-70°   | 3140.6  | 8.3       |
| 70°-80°   | 243.8   | 0.6       |
| 80°-90°   | 50.7    | 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°    | 37991.0 | 100.0     |
| 0°-180°   | 37991.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P533393

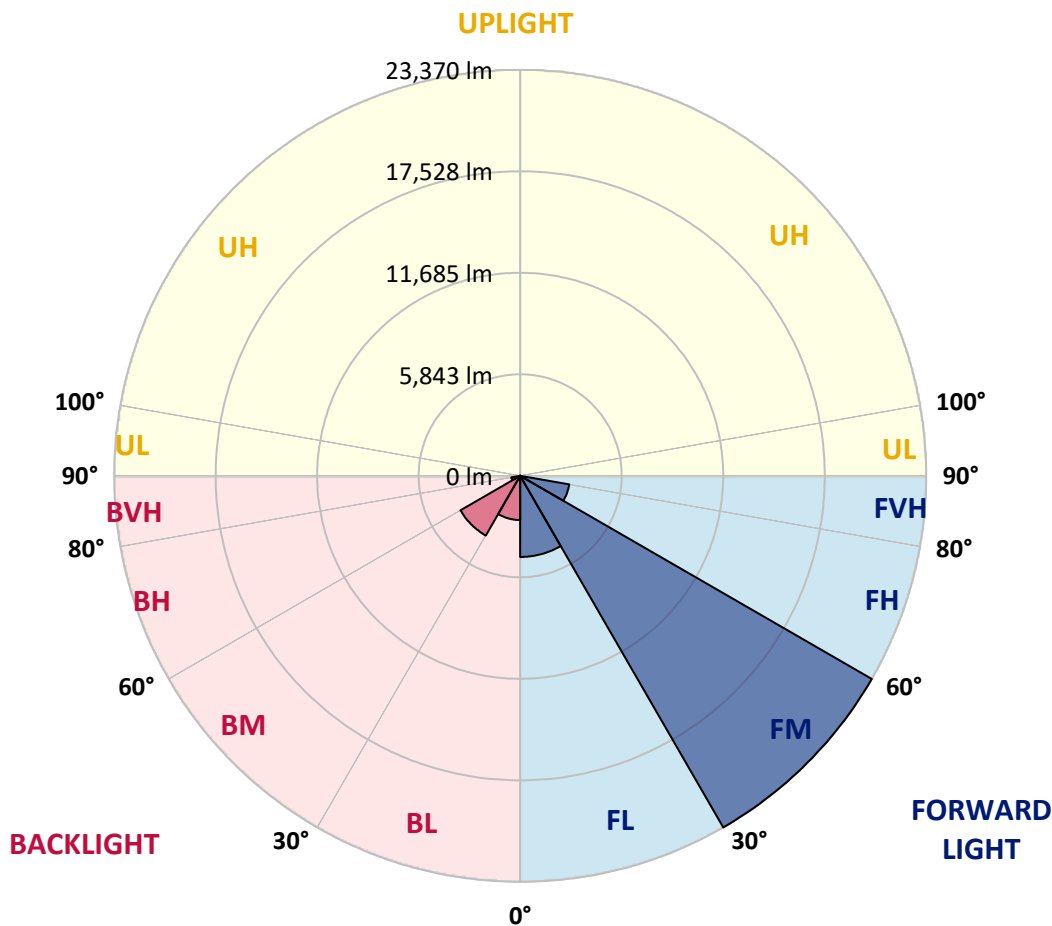
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 4670.2  | 12.3      |                         |      |         |
| FM (30°-60°)   | 23370.4 | 61.5      |                         |      |         |
| FH (60°-80°)   | 2869.3  | 7.6       |                         |      | G2/5000 |
| FVH (80°-90°)  | 24.7    | 0.1       |                         |      | G1/100  |
| BL (0°-30°)    | 2546.0  | 6.7       | B4/5000                 |      |         |
| BM (30°-60°)   | 3969.3  | 10.4      | B3/5000                 |      |         |
| BH (60°-80°)   | 515.1   | 1.4       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 26.0    | 0.1       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G2**

Type II Short





REPORT NUMBER: P533393

CATALOG NUMBER: GALN-SA8D-740-U-T3R-GRSBK

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 78°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 9767.5  | 9767.5  | 9767.5  | 9767.5  | 9767.5  | 9767.5  | 9767.5  | 9767.5  | 9767.5  | 9767.5  | 9767.5  |
| 2.5°  | 9183.4  | 9271.7  | 9285.2  | 9393.9  | 9387.1  | 9570.5  | 9624.9  | 9631.7  | 9753.9  | 9692.8  | 9849.0  |
| 5°    | 8925.2  | 8877.7  | 8857.3  | 9047.5  | 9101.9  | 9264.9  | 9400.7  | 9482.2  | 9733.5  | 9821.8  | 9984.9  |
| 7.5°  | 8694.3  | 8694.3  | 8707.9  | 8877.7  | 8857.3  | 9067.9  | 9210.5  | 9461.8  | 9828.6  | 9903.4  | 10100.3 |
| 10°   | 8470.2  | 8388.6  | 8490.5  | 8667.1  | 8816.6  | 8911.7  | 9210.5  | 9448.3  | 9876.2  | 10093.5 | 10365.2 |
| 12.5° | 8354.7  | 8395.4  | 8409.0  | 8538.1  | 8701.1  | 8986.4  | 9149.4  | 9543.4  | 10215.8 | 10344.9 | 10636.9 |
| 15°   | 9081.5  | 9000.0  | 8803.0  | 8687.5  | 8823.4  | 8959.2  | 9366.8  | 9767.5  | 10392.4 | 10575.8 | 10901.8 |
| 17.5° | 9923.7  | 9855.8  | 9692.8  | 9380.3  | 9074.7  | 9326.0  | 9645.2  | 10012.0 | 10582.6 | 10854.3 | 11336.6 |
| 20°   | 11024.1 | 10915.4 | 10752.4 | 10141.1 | 9876.2  | 9604.5  | 9944.1  | 10378.8 | 10895.1 | 11139.6 | 11635.4 |
| 22.5° | 12335.0 | 12335.0 | 11968.3 | 11227.9 | 10677.7 | 10419.6 | 10562.2 | 10813.5 | 11241.5 | 11574.3 | 12063.3 |
| 25°   | 13700.3 | 13659.6 | 13326.7 | 12559.2 | 11628.6 | 11323.0 | 11486.0 | 11662.6 | 11778.1 | 11961.5 | 12287.5 |
| 27.5° | 15262.6 | 15024.8 | 14603.7 | 13754.7 | 12932.8 | 12341.8 | 12518.4 | 12362.2 | 12219.6 | 12314.7 | 12783.3 |
| 30°   | 16322.2 | 16471.6 | 15935.0 | 15119.9 | 14345.6 | 13686.7 | 13720.7 | 13584.9 | 12932.8 | 13068.6 | 13347.1 |
| 32.5° | 17422.6 | 17517.7 | 17218.8 | 16770.5 | 15996.2 | 15228.6 | 14950.1 | 14834.7 | 14345.6 | 14406.7 | 14135.0 |
| 35°   | 18339.5 | 18522.9 | 18258.0 | 18061.1 | 17836.9 | 17218.8 | 16451.3 | 16824.8 | 16036.9 | 15887.5 | 15181.1 |
| 37.5° | 19181.8 | 19127.5 | 19439.9 | 19236.2 | 19188.6 | 18753.9 | 17911.6 | 17986.3 | 17456.5 | 17422.6 | 16607.5 |
| 40°   | 19935.8 | 19949.4 | 20377.3 | 20472.4 | 20282.2 | 19507.8 | 18285.2 | 18876.2 | 19304.1 | 19344.8 | 18298.8 |
| 42.5° | 20560.7 | 20744.1 | 21110.9 | 21878.4 | 21593.1 | 20302.6 | 18672.4 | 19317.7 | 20907.1 | 21158.4 | 19901.8 |
| 45°   | 21104.1 | 21477.7 | 21932.7 | 22618.8 | 22455.8 | 21430.1 | 19636.9 | 20227.8 | 22618.8 | 23277.6 | 21409.7 |
| 47.5° | 21138.0 | 21627.1 | 22122.9 | 23141.8 | 23345.6 | 22034.6 | 20635.4 | 21667.8 | 23977.3 | 24690.5 | 22510.1 |
| 50°   | 21002.2 | 21260.3 | 22252.0 | 23359.2 | 23821.0 | 23019.5 | 22034.6 | 22876.9 | 25295.0 | 25743.3 | 23067.1 |
| 52.5° | 19392.4 | 19589.4 | 21579.5 | 23562.9 | 24676.9 | 24133.5 | 23889.0 | 24561.4 | 26639.9 | 26972.7 | 23590.1 |
| 55°   | 16166.0 | 16132.0 | 18869.4 | 22537.3 | 25070.8 | 25784.0 | 25634.6 | 25872.4 | 28195.4 | 28494.2 | 23719.2 |
| 57.5° | 11058.1 | 11676.2 | 14039.9 | 18767.5 | 22659.5 | 25396.9 | 25553.1 | 25159.1 | 26381.8 | 26497.3 | 20676.1 |
| 60°   | 5963.7  | 6221.9  | 8123.7  | 12525.2 | 17252.8 | 20696.5 | 21104.1 | 20390.9 | 20295.8 | 19969.7 | 14759.9 |
| 62.5° | 2370.6  | 2499.6  | 3579.6  | 6201.5  | 9400.7  | 12579.6 | 13455.8 | 13163.7 | 12538.8 | 11683.0 | 7641.5  |
| 65°   | 1127.5  | 1209.1  | 1779.6  | 2900.4  | 4170.5  | 5243.8  | 6120.0  | 6391.7  | 4713.9  | 4245.3  | 2520.0  |
| 67.5° | 767.5   | 828.7   | 1297.4  | 1657.4  | 1487.5  | 1555.5  | 2024.1  | 1881.5  | 1107.2  | 944.1   | 699.6   |
| 70°   | 584.1   | 624.9   | 1039.2  | 1127.5  | 665.7   | 468.7   | 523.0   | 489.1   | 455.1   | 461.9   | 455.1   |
| 72.5° | 414.3   | 448.3   | 760.8   | 665.7   | 292.1   | 217.4   | 278.5   | 332.8   | 332.8   | 332.8   | 326.0   |
| 75°   | 251.3   | 285.3   | 441.5   | 258.1   | 115.5   | 115.5   | 176.6   | 224.2   | 237.7   | 244.5   | 230.9   |
| 77.5° | 129.1   | 163.0   | 149.4   | 74.7    | 74.7    | 88.3    | 129.1   | 156.2   | 169.8   | 169.8   | 163.0   |
| 80°   | 27.2    | 27.2    | 27.2    | 40.8    | 74.7    | 95.1    | 129.1   | 142.6   | 163.0   | 163.0   | 149.4   |
| 82.5° | 0.0     | 6.8     | 20.4    | 40.8    | 67.9    | 88.3    | 122.3   | 142.6   | 163.0   | 169.8   | 156.2   |
| 85°   | 0.0     | 6.8     | 13.6    | 27.2    | 47.5    | 54.3    | 47.5    | 40.8    | 40.8    | 40.8    | 40.8    |
| 87.5° | 0.0     | 0.0     | 6.8     | 6.8     | 6.8     | 13.6    | 13.6    | 13.6    | 13.6    | 13.6    | 13.6    |
| 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: P533393

CATALOG NUMBER: GALN-SA8D-740-U-T3R-GRSBK

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°    | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 9767.5  | 9767.5  | 9767.5  | 9767.5 | 9767.5 | 9767.5 | 9767.5 | 9767.5 | 9767.5 | 9767.5 | 9767.5 |
| 2.5°  | 9862.6  | 9883.0  | 9849.0  | 9842.2 | 9815.1 | 9896.6 | 9699.6 | 9652.0 | 9774.3 | 9658.8 | 9686.0 |
| 5°    | 9991.7  | 10039.2 | 9978.1  | 9876.2 | 9726.8 | 9495.8 | 9298.8 | 9040.7 | 8918.5 | 8830.2 | 8816.6 |
| 7.5°  | 10086.8 | 10120.7 | 10059.6 | 9733.5 | 9285.2 | 8701.1 | 8266.4 | 7947.1 | 7695.8 | 7621.1 | 7498.8 |
| 10°   | 10473.9 | 10480.7 | 10175.1 | 9455.1 | 8578.8 | 7811.3 | 7145.6 | 6656.6 | 6405.3 | 6249.0 | 6181.1 |
| 12.5° | 10732.0 | 10718.4 | 10100.3 | 8904.9 | 7736.6 | 6717.7 | 5957.0 | 5366.0 | 5135.1 | 5060.4 | 5012.8 |
| 15°   | 11058.1 | 10983.4 | 9923.7  | 8341.1 | 6649.8 | 5549.4 | 4863.4 | 4455.8 | 4435.5 | 4387.9 | 4435.5 |
| 17.5° | 11316.2 | 11105.6 | 9665.6  | 7315.4 | 5610.5 | 4571.3 | 4123.0 | 4150.2 | 4204.5 | 4252.1 | 4258.9 |
| 20°   | 11737.3 | 11302.6 | 9074.7  | 6418.8 | 4646.0 | 3919.2 | 3912.4 | 4034.7 | 4170.5 | 4224.9 | 4279.2 |
| 22.5° | 12056.6 | 11384.1 | 8443.0  | 5461.1 | 3858.1 | 3654.3 | 3769.8 | 3953.2 | 4055.1 | 4109.4 | 4190.9 |
| 25°   | 12172.0 | 11160.0 | 7600.7  | 4503.4 | 3477.7 | 3532.1 | 3708.7 | 3830.9 | 3960.0 | 4021.1 | 3987.2 |
| 27.5° | 12287.5 | 11044.5 | 6595.4  | 3708.7 | 3273.9 | 3450.6 | 3600.0 | 3722.2 | 3763.0 | 3844.5 | 3898.9 |
| 30°   | 12566.0 | 10643.7 | 5692.1  | 3206.0 | 3172.1 | 3396.2 | 3504.9 | 3545.6 | 3654.3 | 3701.9 | 3701.9 |
| 32.5° | 12790.1 | 10487.5 | 4734.3  | 2968.3 | 3158.5 | 3423.4 | 3437.0 | 3437.0 | 3450.6 | 3416.6 | 3403.0 |
| 35°   | 13252.0 | 9950.9  | 3878.5  | 2825.6 | 3151.7 | 3430.2 | 3464.1 | 3348.7 | 3036.2 | 2914.0 | 2880.0 |
| 37.5° | 13822.6 | 9604.5  | 3246.8  | 2791.7 | 3199.2 | 3511.7 | 3566.0 | 3131.3 | 2723.8 | 2526.8 | 2492.8 |
| 40°   | 14515.4 | 9360.0  | 2832.4  | 2778.1 | 3307.9 | 3701.9 | 3538.9 | 2961.5 | 2431.7 | 2146.4 | 2132.8 |
| 42.5° | 15323.7 | 9135.8  | 2554.0  | 2771.3 | 3443.8 | 3898.9 | 3511.7 | 2818.9 | 2132.8 | 1942.6 | 1969.8 |
| 45°   | 15969.0 | 9013.5  | 2363.8  | 2723.8 | 3491.3 | 4014.3 | 3532.1 | 2567.5 | 2010.6 | 1888.3 | 1901.9 |
| 47.5° | 16471.6 | 8755.4  | 2207.5  | 2642.3 | 3484.5 | 4055.1 | 3348.7 | 2465.7 | 1949.4 | 1983.4 | 2017.4 |
| 50°   | 16485.2 | 8409.0  | 2010.6  | 2465.7 | 3382.6 | 3980.4 | 3138.1 | 2370.6 | 1935.8 | 2078.5 | 2146.4 |
| 52.5° | 16301.8 | 7920.0  | 1800.0  | 2214.3 | 3144.9 | 3722.2 | 2947.9 | 2329.8 | 1874.7 | 1861.1 | 1942.6 |
| 55°   | 15649.7 | 7003.0  | 1446.8  | 1793.2 | 2655.8 | 3070.2 | 2778.1 | 2255.1 | 1691.3 | 1535.1 | 1548.7 |
| 57.5° | 12647.5 | 5019.6  | 1066.4  | 1283.8 | 1881.5 | 2248.3 | 2506.4 | 2221.1 | 1521.5 | 1304.1 | 1310.9 |
| 60°   | 7831.7  | 2846.0  | 781.1   | 876.2  | 1161.5 | 1365.3 | 2030.9 | 2064.9 | 1358.5 | 1100.4 | 1086.8 |
| 62.5° | 4021.1  | 1406.0  | 604.5   | 618.1  | 713.2  | 801.5  | 1392.4 | 1732.1 | 1229.4 | 1046.0 | 1046.0 |
| 65°   | 1344.9  | 692.8   | 529.8   | 475.5  | 475.5  | 495.8  | 842.3  | 1202.3 | 1039.2 | 876.2  | 876.2  |
| 67.5° | 577.4   | 516.2   | 461.9   | 414.3  | 380.4  | 360.0  | 475.5  | 699.6  | 774.3  | 665.7  | 638.5  |
| 70°   | 448.3   | 434.7   | 400.8   | 346.4  | 298.9  | 271.7  | 278.5  | 360.0  | 441.5  | 427.9  | 414.3  |
| 72.5° | 332.8   | 332.8   | 319.2   | 271.7  | 230.9  | 197.0  | 183.4  | 190.2  | 210.6  | 217.4  | 224.2  |
| 75°   | 230.9   | 237.7   | 237.7   | 210.6  | 169.8  | 142.6  | 122.3  | 101.9  | 81.5   | 67.9   | 61.1   |
| 77.5° | 156.2   | 163.0   | 176.6   | 156.2  | 129.1  | 95.1   | 74.7   | 54.3   | 34.0   | 13.6   | 13.6   |
| 80°   | 135.8   | 156.2   | 169.8   | 156.2  | 135.8  | 101.9  | 74.7   | 40.8   | 20.4   | 0.0    | 0.0    |
| 82.5° | 142.6   | 156.2   | 176.6   | 149.4  | 129.1  | 95.1   | 74.7   | 47.5   | 20.4   | 6.8    | 0.0    |
| 85°   | 34.0    | 34.0    | 40.8    | 47.5   | 61.1   | 67.9   | 54.3   | 34.0   | 20.4   | 6.8    | 0.0    |
| 87.5° | 13.6    | 13.6    | 13.6    | 13.6   | 13.6   | 6.8    | 6.8    | 6.8    | 6.8    | 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)