

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: P457509

Luminaire Tested: **GALN-SA8D-760-U-SL4**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457509  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA8D-760-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 61146 lumens  
Efficiency: N/A  
Efficacy: 124.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

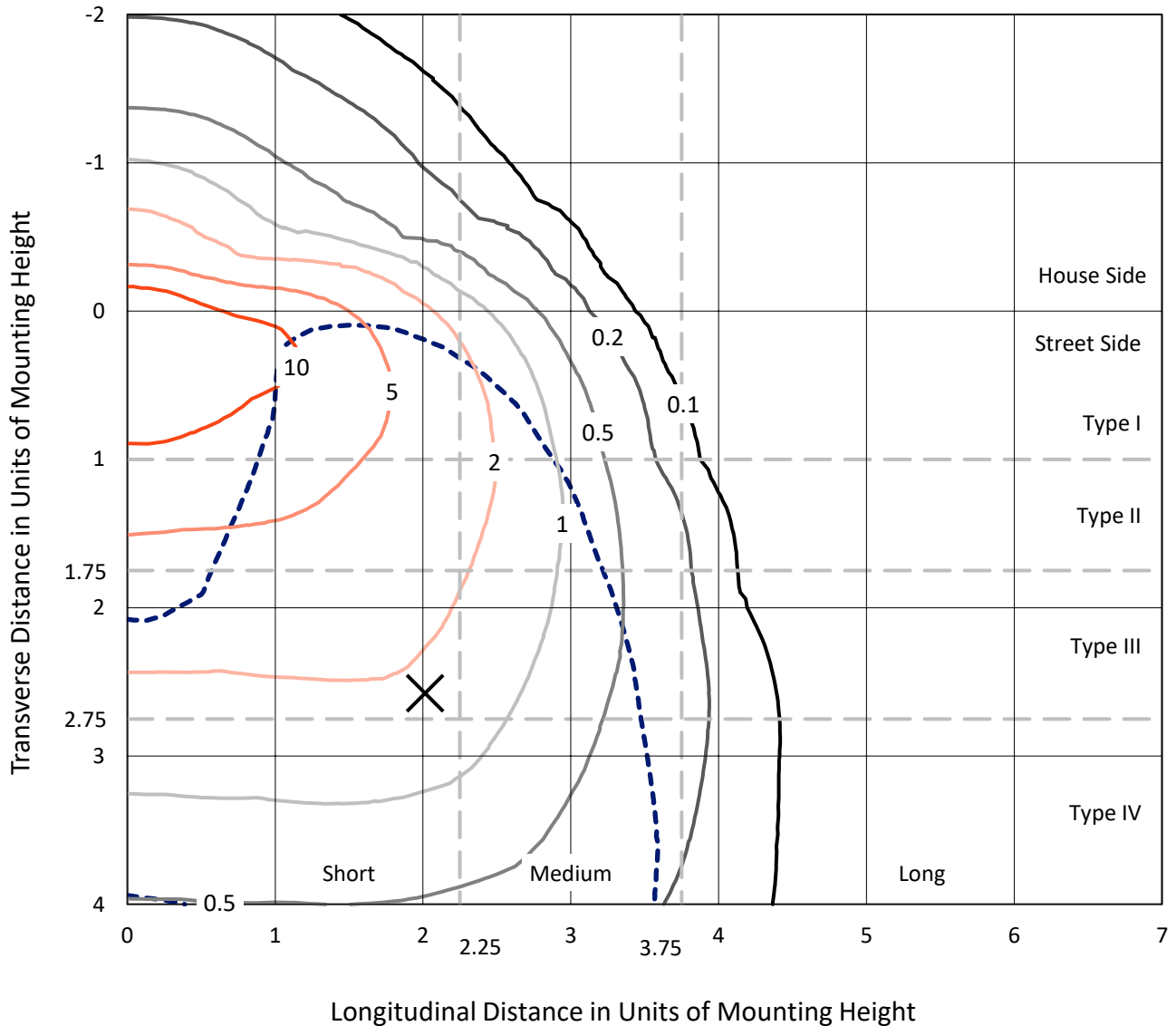
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P457509  
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### Iso-Footcandle Lines of Horizontal Illumination

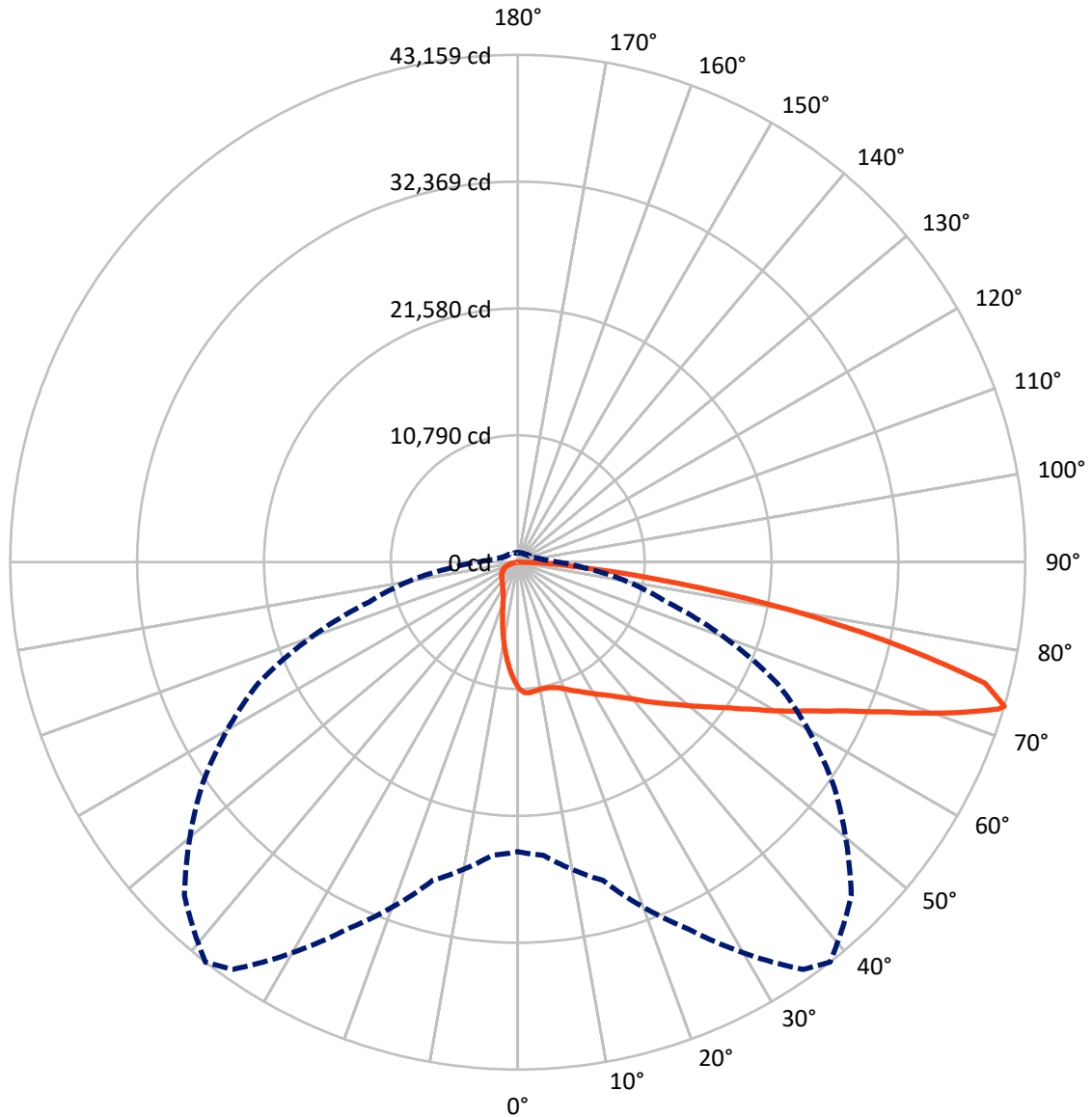
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.5 fc  
 Type IV - Short - N/A

REPORT NUMBER: P457509  
CATALOG NUMBER: GALN-SA8D-760-U-SL4

### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

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CATALOG NUMBER: GALN-SA8D-760-U-SL4

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8219.8   | 0.0    | 8219.8  |
|                    | % Fixture | 13.4     | 0.0    | 13.4    |
| <b>Street Side</b> | Lumens    | 52926.2  | 0.0    | 52926.2 |
|                    | % Fixture | 86.6     | 0.0    | 86.6    |
| <b>Total</b>       | Lumens    | 61146.0  | 0.0    | 61146.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 937.7   | 1.5       |
| 10°-20°   | 2404.5  | 3.9       |
| 20°-30°   | 3744.3  | 6.1       |
| 30°-40°   | 5492.1  | 9.0       |
| 40°-50°   | 8146.8  | 13.3      |
| 50°-60°   | 11542.5 | 18.9      |
| 60°-70°   | 14642.0 | 23.9      |
| 70°-80°   | 12188.3 | 19.9      |
| 80°-90°   | 2047.8  | 3.3       |
| 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°    | 61146.0 | 100.0     |
| 0°-180°   | 61146.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P457509

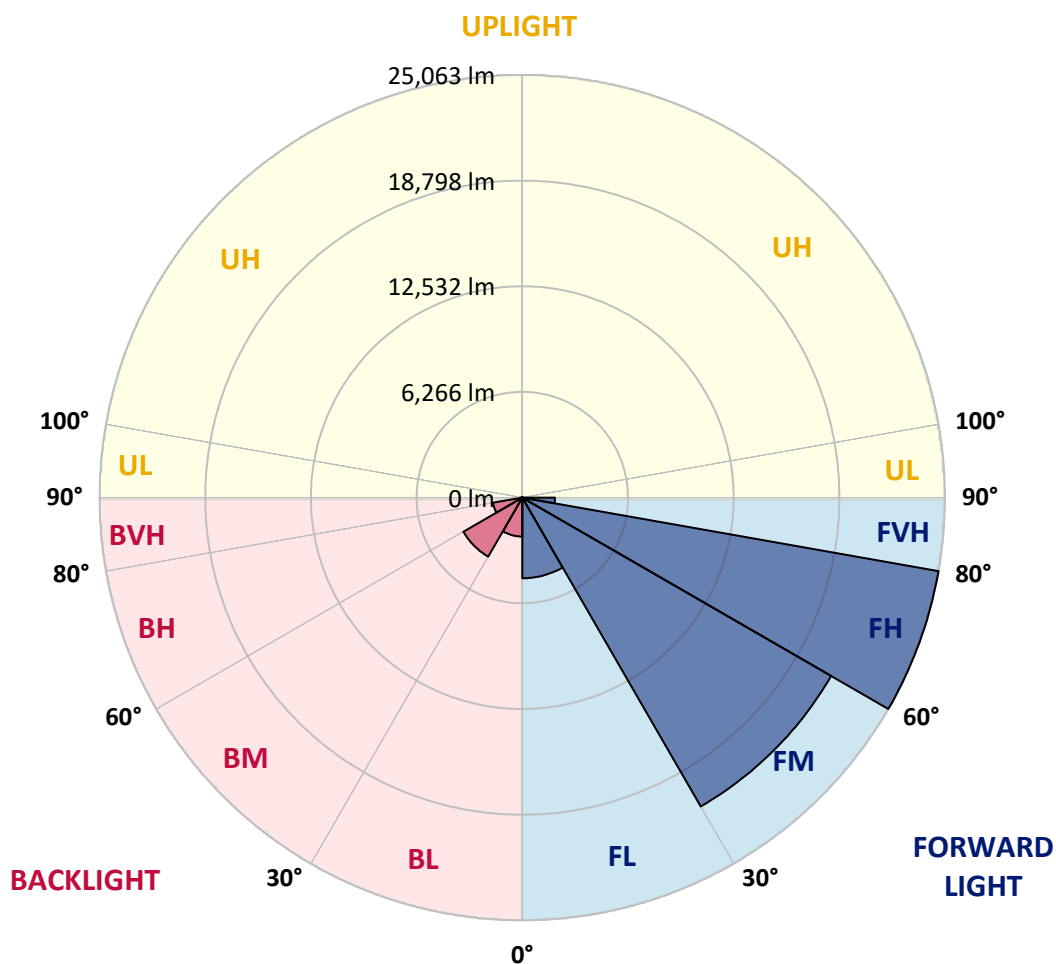
CATALOG NUMBER: GALN-SA8D-760-U-SL4

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

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 4780.0  | 7.8       |                         |      |         |
| FM (30°-60°)   | 21145.9 | 34.6      |                         |      |         |
| FH (60°-80°)   | 25063.5 | 41.0      |                         |      | G5      |
| FVH (80°-90°)  | 1936.8  | 3.2       |                         |      | G5      |
| BL (0°-30°)    | 2306.6  | 3.8       | B3/2500                 |      |         |
| BM (30°-60°)   | 4035.4  | 6.6       | B3/5000                 |      |         |
| BH (60°-80°)   | 1766.8  | 2.9       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 111.1   | 0.2       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**

Type IV Short





REPORT NUMBER: P457509

CATALOG NUMBER: GALN-SA8D-760-U-SL4

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 38°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 10742.3 | 10742.3 | 10742.3 | 10742.3 | 10742.3 | 10742.3 | 10742.3 | 10742.3 | 10742.3 | 10742.3 | 10742.3 |
| 2.5°  | 11173.9 | 11229.2 | 11201.6 | 11163.6 | 11139.4 | 11115.2 | 11080.7 | 10980.6 | 10901.2 | 10814.8 | 10680.2 |
| 5°    | 11256.8 | 11291.3 | 11267.2 | 11218.8 | 11163.6 | 11139.4 | 11073.8 | 10942.6 | 10814.8 | 10669.8 | 10469.5 |
| 7.5°  | 11208.5 | 11222.3 | 11194.7 | 11136.0 | 11087.6 | 11042.7 | 10966.8 | 10821.7 | 10666.3 | 10490.2 | 10227.8 |
| 10°   | 11035.8 | 11087.6 | 11087.6 | 11039.3 | 10990.9 | 10966.8 | 10890.8 | 10752.7 | 10611.1 | 10410.8 | 10100.1 |
| 12.5° | 10894.2 | 10949.5 | 10994.4 | 10980.6 | 10977.1 | 10977.1 | 10918.4 | 10814.8 | 10649.1 | 10459.2 | 10089.7 |
| 15°   | 10797.6 | 10863.2 | 10959.9 | 11015.1 | 11049.6 | 11060.0 | 11035.8 | 10946.0 | 10776.8 | 10555.9 | 10131.1 |
| 17.5° | 10776.8 | 10856.3 | 11032.4 | 11153.2 | 11243.0 | 11239.5 | 11232.6 | 11108.3 | 10921.9 | 10694.0 | 10182.9 |
| 20°   | 10870.1 | 10973.7 | 11218.8 | 11408.7 | 11540.0 | 11515.8 | 11477.8 | 11315.5 | 11098.0 | 10842.5 | 10231.3 |
| 22.5° | 11149.8 | 11256.8 | 11526.1 | 11733.3 | 11861.1 | 11861.1 | 11747.1 | 11533.1 | 11301.7 | 11015.1 | 10296.9 |
| 25°   | 11550.3 | 11667.7 | 11954.3 | 12165.0 | 12223.7 | 12178.8 | 12064.8 | 11805.8 | 11540.0 | 11263.7 | 10435.0 |
| 27.5° | 12040.6 | 12182.2 | 12448.1 | 12624.2 | 12606.9 | 12572.4 | 12455.0 | 12123.5 | 11857.6 | 11605.6 | 10669.8 |
| 30°   | 12651.8 | 12755.4 | 13031.7 | 13073.1 | 13010.9 | 13004.0 | 12838.3 | 12506.8 | 12258.2 | 12064.8 | 11004.7 |
| 32.5° | 13228.5 | 13321.7 | 13542.7 | 13560.0 | 13449.5 | 13463.3 | 13307.9 | 13004.0 | 12862.5 | 12793.4 | 11567.6 |
| 35°   | 13839.7 | 13888.0 | 14077.9 | 14057.2 | 13984.7 | 13974.3 | 13912.2 | 13622.1 | 13667.0 | 13791.3 | 12365.2 |
| 37.5° | 14350.7 | 14447.4 | 14554.4 | 14571.7 | 14568.3 | 14602.8 | 14644.2 | 14506.1 | 14765.1 | 15155.3 | 13411.5 |
| 40°   | 14820.3 | 14903.2 | 15062.0 | 15117.3 | 15251.9 | 15321.0 | 15462.6 | 15466.0 | 16063.4 | 16705.7 | 14699.5 |
| 42.5° | 15138.0 | 15279.6 | 15576.5 | 15676.7 | 16004.7 | 16211.9 | 16422.5 | 16647.0 | 17513.7 | 18338.9 | 16218.8 |
| 45°   | 15414.2 | 15600.7 | 16094.5 | 16405.3 | 16850.7 | 17102.8 | 17548.2 | 18017.8 | 19264.3 | 20345.1 | 17762.3 |
| 47.5° | 15832.1 | 15997.8 | 16564.1 | 17113.1 | 17786.5 | 18076.5 | 18742.9 | 19443.9 | 21073.7 | 22258.1 | 19240.2 |
| 50°   | 16412.2 | 16512.3 | 17088.9 | 17983.3 | 18843.1 | 19216.0 | 20096.5 | 21108.3 | 23007.4 | 24146.9 | 20538.5 |
| 52.5° | 17154.6 | 17196.0 | 17655.2 | 18846.5 | 19979.1 | 20441.8 | 21608.9 | 22789.9 | 24699.4 | 25787.1 | 21567.5 |
| 55°   | 18031.6 | 17962.6 | 18321.7 | 19761.6 | 21277.5 | 21881.7 | 23135.2 | 24492.2 | 26602.0 | 27113.0 | 22316.8 |
| 57.5° | 18898.3 | 18791.3 | 19077.9 | 20873.4 | 22879.6 | 23608.2 | 25068.9 | 26246.3 | 28300.9 | 28352.7 | 22841.7 |
| 60°   | 19816.8 | 19737.4 | 20079.3 | 22178.7 | 24844.4 | 25707.7 | 27057.8 | 28066.1 | 29944.5 | 29215.9 | 22924.5 |
| 62.5° | 20759.5 | 20631.7 | 21118.6 | 23646.2 | 27057.8 | 27841.6 | 29150.3 | 29999.8 | 31557.1 | 29537.1 | 22126.9 |
| 65°   | 21674.5 | 21615.8 | 22368.6 | 25390.0 | 29578.5 | 30469.4 | 31740.1 | 32316.7 | 32848.5 | 29053.6 | 20148.3 |
| 67.5° | 22648.3 | 22765.7 | 23967.3 | 27717.3 | 32865.8 | 33984.5 | 35355.4 | 34813.3 | 33218.0 | 26764.3 | 16968.1 |
| 70°   | 24133.1 | 24209.1 | 26066.8 | 30766.3 | 37102.6 | 38452.7 | 39115.7 | 35700.7 | 31436.2 | 22416.9 | 12755.4 |
| 72.5° | 24771.9 | 25106.8 | 27941.8 | 33967.3 | 41916.1 | 42741.4 | 40379.5 | 33722.1 | 26187.6 | 15227.8 | 6702.3  |
| 73°   | 24630.3 | 25030.9 | 28028.1 | 34454.1 | 42292.5 | 43159.2 | 40110.2 | 32703.5 | 24343.7 | 13114.5 | 5745.8  |
| 75°   | 22865.8 | 23359.6 | 26905.9 | 34046.7 | 41560.4 | 41042.5 | 35780.1 | 27872.7 | 16450.1 | 5963.3  | 2617.4  |
| 77.5° | 18042.0 | 18183.6 | 21318.9 | 27492.9 | 32727.6 | 31767.7 | 26778.1 | 17420.4 | 6719.6  | 2216.8  | 1484.8  |
| 80°   | 9050.3  | 9571.7  | 12016.5 | 15749.2 | 21885.2 | 21571.0 | 16902.5 | 8238.9  | 2800.4  | 1301.8  | 984.1   |
| 82.5° | 4354.2  | 4723.7  | 5852.9  | 7679.5  | 12092.4 | 11805.8 | 8370.1  | 4502.7  | 1778.3  | 759.7   | 580.1   |
| 85°   | 2803.8  | 3080.1  | 3725.8  | 3663.6  | 4972.3  | 4747.9  | 3760.3  | 3408.1  | 1053.2  | 397.1   | 404.0   |
| 87.5° | 1850.8  | 2026.9  | 2430.9  | 1944.0  | 1809.4  | 1636.7  | 1660.9  | 1919.9  | 207.2   | 151.9   | 55.2    |
| 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: P457509

CATALOG NUMBER: GALN-SA8D-760-U-SL4

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°    | 165°    | 175°    | 180°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 10742.3 | 10742.3 | 10742.3 | 10742.3 | 10742.3 | 10742.3 | 10742.3 | 10742.3 | 10742.3 | 10742.3 | 10742.3 |
| 2.5°  | 10624.9 | 10580.0 | 10431.5 | 10286.5 | 10148.4 | 10017.2 | 9930.9  | 9816.9  | 9740.9  | 9761.7  | 9792.7  |
| 5°    | 10359.0 | 10258.9 | 9996.5  | 9740.9  | 9499.2  | 9212.6  | 8981.3  | 8794.8  | 8653.2  | 8601.4  | 8591.1  |
| 7.5°  | 10079.3 | 9910.1  | 9533.8  | 9095.2  | 8684.3  | 8328.7  | 7917.8  | 7714.0  | 7475.8  | 7392.9  | 7365.3  |
| 10°   | 9910.1  | 9682.2  | 9153.9  | 8542.7  | 7924.7  | 7334.2  | 6888.8  | 6526.2  | 6198.2  | 6136.0  | 6104.9  |
| 12.5° | 9861.8  | 9561.4  | 8850.1  | 8062.8  | 7241.0  | 6515.8  | 5856.3  | 5379.8  | 5062.1  | 4989.6  | 4882.6  |
| 15°   | 9834.2  | 9461.2  | 8566.9  | 7579.4  | 6536.5  | 5652.6  | 4958.5  | 4402.6  | 4112.5  | 3919.2  | 3922.6  |
| 17.5° | 9810.0  | 9347.3  | 8249.2  | 7051.0  | 5928.8  | 4910.2  | 4143.6  | 3642.9  | 3377.0  | 3273.5  | 3263.1  |
| 20°   | 9775.5  | 9212.6  | 7883.2  | 6495.1  | 5234.8  | 4233.4  | 3539.3  | 3166.4  | 2986.9  | 2900.5  | 2897.1  |
| 22.5° | 9761.7  | 9081.4  | 7524.1  | 5928.8  | 4620.1  | 3712.0  | 3138.8  | 2876.4  | 2762.4  | 2703.7  | 2703.7  |
| 25°   | 9796.2  | 8988.2  | 7147.7  | 5390.1  | 4074.6  | 3266.5  | 2862.5  | 2683.0  | 2617.4  | 2586.3  | 2575.9  |
| 27.5° | 9903.2  | 8946.8  | 6774.8  | 4851.5  | 3573.9  | 2962.7  | 2676.1  | 2551.8  | 2503.4  | 2479.3  | 2482.7  |
| 30°   | 10107.0 | 8943.3  | 6408.8  | 4319.7  | 3200.9  | 2731.3  | 2527.6  | 2441.3  | 2403.3  | 2389.5  | 2386.0  |
| 32.5° | 10435.0 | 9019.3  | 6049.7  | 3881.2  | 2886.7  | 2538.0  | 2389.5  | 2327.3  | 2310.1  | 2299.7  | 2296.3  |
| 35°   | 10990.9 | 9233.4  | 5694.0  | 3480.6  | 2645.0  | 2365.3  | 2258.3  | 2227.2  | 2203.0  | 2213.4  | 2216.8  |
| 37.5° | 11740.2 | 9602.8  | 5355.6  | 3166.4  | 2462.0  | 2237.6  | 2147.8  | 2120.1  | 2106.3  | 2116.7  | 2127.1  |
| 40°   | 12745.1 | 10134.6 | 5072.5  | 2914.3  | 2330.8  | 2130.5  | 2051.1  | 2026.9  | 2013.1  | 2030.4  | 2033.8  |
| 42.5° | 13853.5 | 10749.2 | 4837.7  | 2717.5  | 2223.7  | 2040.7  | 1964.8  | 1937.1  | 1926.8  | 1937.1  | 1940.6  |
| 45°   | 14993.0 | 11464.0 | 4716.8  | 2575.9  | 2134.0  | 1975.1  | 1895.7  | 1864.6  | 1840.5  | 1833.5  | 1843.9  |
| 47.5° | 16115.2 | 12085.5 | 4713.4  | 2489.6  | 2061.4  | 1916.4  | 1830.1  | 1795.6  | 1764.5  | 1747.2  | 1743.8  |
| 50°   | 17030.2 | 12579.3 | 4796.2  | 2451.6  | 1999.3  | 1850.8  | 1764.5  | 1730.0  | 1688.5  | 1654.0  | 1660.9  |
| 52.5° | 17720.9 | 12900.4 | 4834.2  | 2434.4  | 1964.8  | 1781.8  | 1695.4  | 1664.4  | 1616.0  | 1571.1  | 1571.1  |
| 55°   | 18166.3 | 12976.4 | 4741.0  | 2417.1  | 1937.1  | 1709.2  | 1616.0  | 1588.4  | 1540.0  | 1495.2  | 1495.2  |
| 57.5° | 18318.2 | 12741.6 | 4406.0  | 2375.7  | 1909.5  | 1647.1  | 1536.6  | 1512.4  | 1474.4  | 1429.5  | 1422.6  |
| 60°   | 17966.0 | 11947.4 | 3819.0  | 2251.4  | 1854.3  | 1581.5  | 1450.3  | 1439.9  | 1426.1  | 1388.1  | 1384.7  |
| 62.5° | 16609.0 | 10262.3 | 3180.2  | 2089.1  | 1761.0  | 1512.4  | 1370.8  | 1388.1  | 1398.5  | 1377.8  | 1374.3  |
| 65°   | 14350.7 | 8332.1  | 2717.5  | 1864.6  | 1636.7  | 1415.7  | 1284.5  | 1329.4  | 1357.0  | 1357.0  | 1350.1  |
| 67.5° | 11640.1 | 6398.4  | 2289.3  | 1671.3  | 1481.3  | 1284.5  | 1187.8  | 1222.4  | 1243.1  | 1236.2  | 1253.4  |
| 70°   | 8273.4  | 4333.5  | 1864.6  | 1450.3  | 1284.5  | 1136.0  | 1063.5  | 1063.5  | 1049.7  | 1042.8  | 1042.8  |
| 72.5° | 4012.4  | 2475.8  | 1512.4  | 1212.0  | 1094.6  | 970.3   | 911.6   | 887.4   | 859.8   | 856.3   | 839.1   |
| 73°   | 3352.9  | 2220.3  | 1443.4  | 1167.1  | 1049.7  | 946.1   | 880.5   | 842.5   | 825.3   | 811.5   | 808.0   |
| 75°   | 2040.7  | 1685.1  | 1205.1  | 984.1   | 894.3   | 814.9   | 756.2   | 721.7   | 704.4   | 694.1   | 690.6   |
| 77.5° | 1343.2  | 1256.9  | 935.8   | 752.8   | 683.7   | 635.4   | 611.2   | 576.7   | 566.3   | 552.5   | 552.5   |
| 80°   | 1001.4  | 959.9   | 669.9   | 531.8   | 490.3   | 448.9   | 442.0   | 435.1   | 407.5   | 390.2   | 383.3   |
| 82.5° | 645.7   | 683.7   | 455.8   | 355.7   | 310.8   | 276.2   | 279.7   | 290.1   | 262.4   | 238.3   | 231.4   |
| 85°   | 459.3   | 493.8   | 276.2   | 162.3   | 131.2   | 113.9   | 127.8   | 113.9   | 117.4   | 93.2    | 76.0    |
| 87.5° | 76.0    | 131.2   | 48.3    | 20.7    | 10.4    | 6.9     | 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     | 0.0     |

(END OF REPORT)