

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: P456587

Luminaire Tested: **GALN-SA7D-760-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456587  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA7D-760-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40280 lumens  
Efficiency: N/A  
Efficacy: 93.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G5

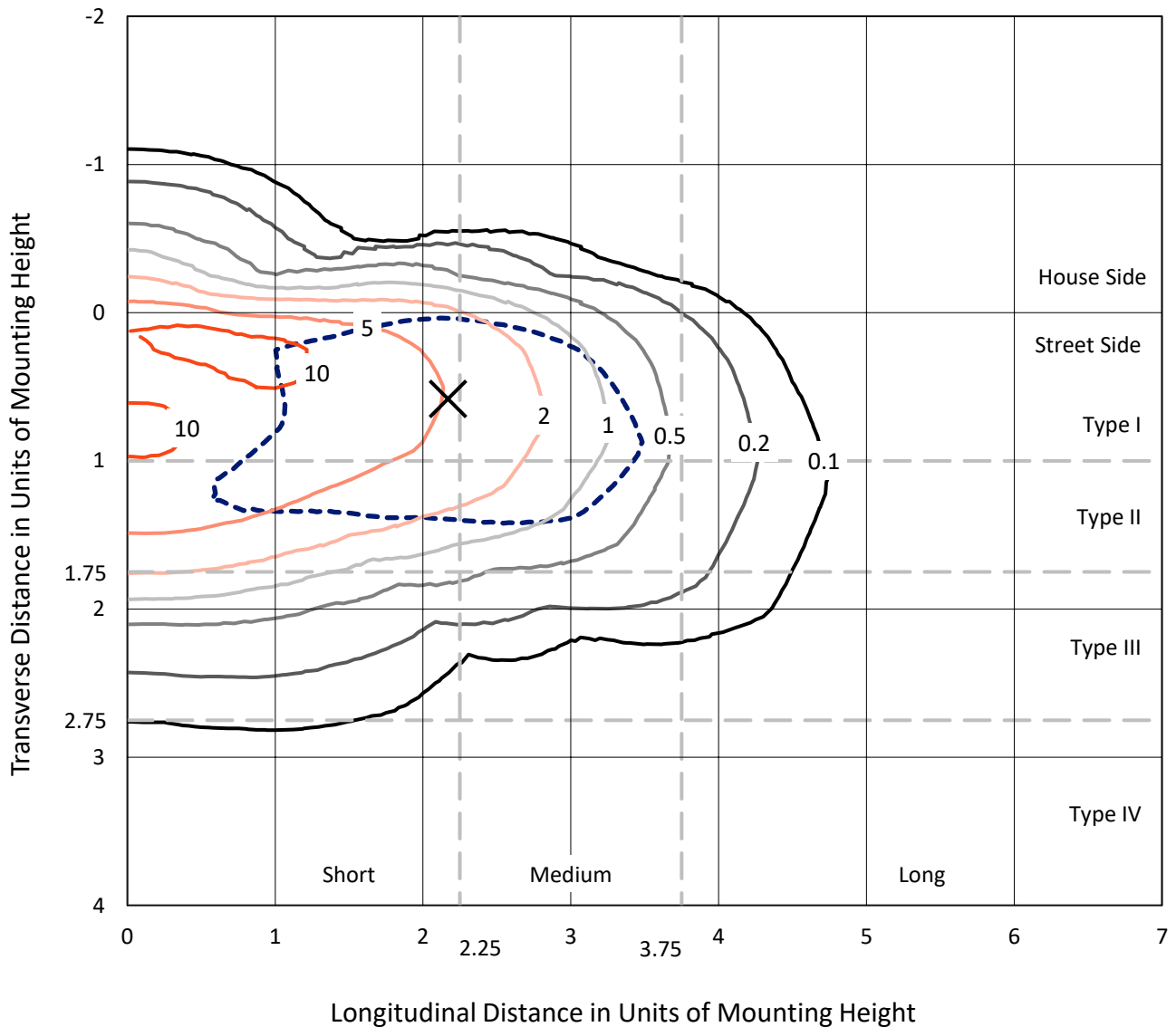
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P456587  
 CATALOG NUMBER: GALN-SA7D-760-U-T2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

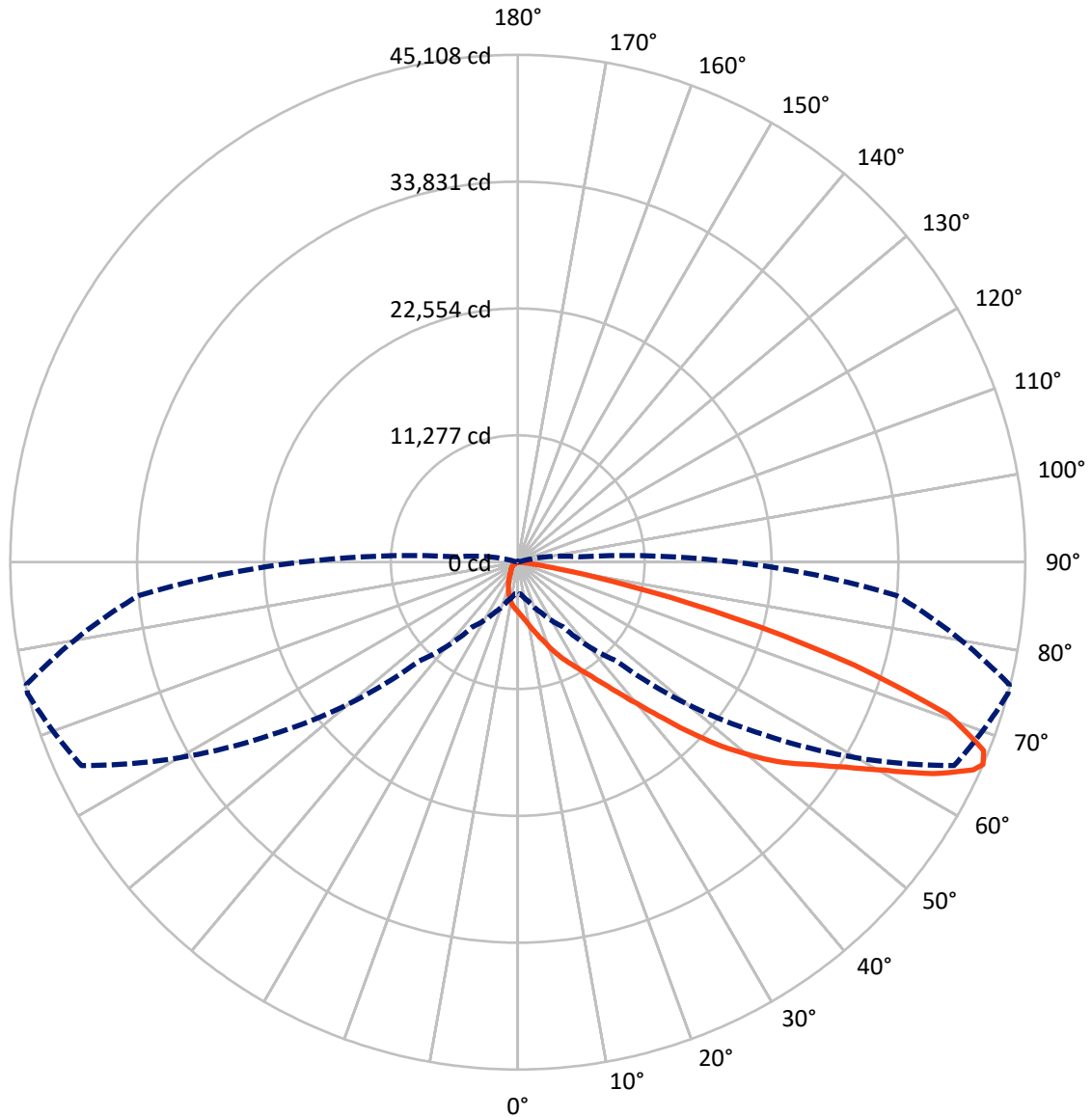
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc  
 Type II - Short - N/A

REPORT NUMBER: P456587  
CATALOG NUMBER: GALN-SA7D-760-U-T2-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P456587

CATALOG NUMBER: GALN-SA7D-760-U-T2-HSS

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2486.7   | 0.0    | 2486.7  |
|                    | % Fixture | 6.2      | 0.0    | 6.2     |
| <b>Street Side</b> | Lumens    | 37793.3  | 0.0    | 37793.3 |
|                    | % Fixture | 93.8     | 0.0    | 93.8    |
| <b>Total</b>       | Lumens    | 40280.0  | 0.0    | 40280.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 424.9   | 1.1       |
| 10°-20°   | 1250.4  | 3.1       |
| 20°-30°   | 2159.2  | 5.4       |
| 30°-40°   | 3894.7  | 9.7       |
| 40°-50°   | 7035.9  | 17.5      |
| 50°-60°   | 10969.1 | 27.2      |
| 60°-70°   | 10420.2 | 25.9      |
| 70°-80°   | 3905.2  | 9.7       |
| 80°-90°   | 220.3   | 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°    | 40280.0 | 100.0     |
| 0°-180°   | 40280.0 | 100.0     |



REPORT NUMBER: P456587

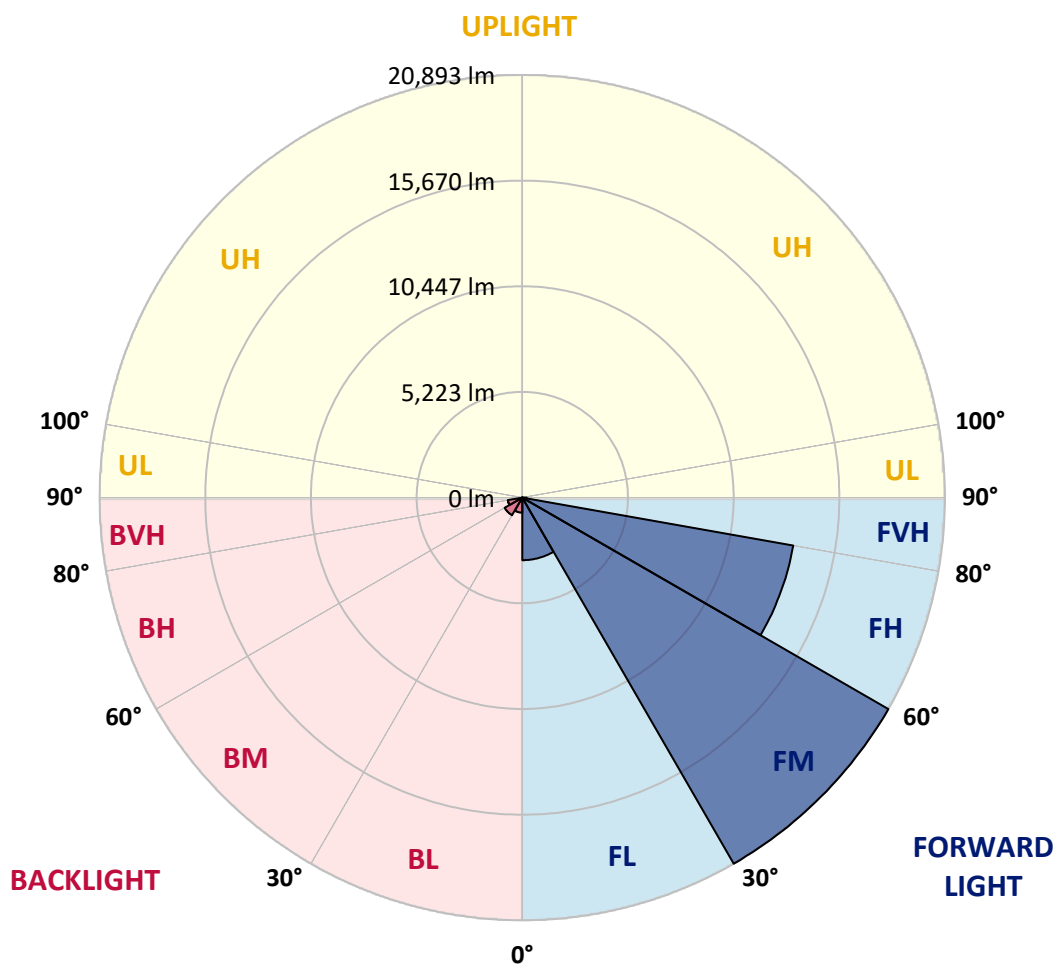
CATALOG NUMBER: GALN-SA7D-760-U-T2-HSS

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

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 3091.8  | 7.7       |                         |      |         |
| FM (30°-60°)   | 20893.2 | 51.9      |                         |      |         |
| FH (60°-80°)   | 13599.3 | 33.8      |                         |      | G5      |
| FVH (80°-90°)  | 209.0   | 0.5       |                         |      | G2/225  |
| BL (0°-30°)    | 742.6   | 1.8       | B2/1000                 |      |         |
| BM (30°-60°)   | 1006.6  | 2.5       | B2/2500                 |      |         |
| BH (60°-80°)   | 726.1   | 1.8       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 11.4    | 0.0       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G5**

Type II Short





REPORT NUMBER: P456587

CATALOG NUMBER: GALN-SA7D-760-U-T2-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 76°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4405.0  | 4405.0  | 4405.0  | 4405.0  | 4405.0  | 4405.0  | 4405.0  | 4405.0  | 4405.0  | 4405.0  | 4405.0  |
| 2.5°  | 5262.8  | 5197.3  | 5218.1  | 5188.3  | 5119.8  | 5018.6  | 4929.2  | 4801.1  | 4673.1  | 4652.2  | 4509.3  |
| 5°    | 5956.7  | 5938.9  | 5915.1  | 5828.7  | 5781.0  | 5626.1  | 5441.5  | 5221.1  | 4956.0  | 4908.4  | 4649.2  |
| 7.5°  | 6430.3  | 6421.4  | 6433.3  | 6388.6  | 6346.9  | 6206.9  | 6010.4  | 5709.5  | 5298.5  | 5271.7  | 4839.9  |
| 10°   | 6585.2  | 6609.0  | 6653.7  | 6725.2  | 6790.7  | 6746.0  | 6597.1  | 6221.8  | 5742.3  | 5664.9  | 5057.3  |
| 12.5° | 6495.8  | 6522.6  | 6629.9  | 6820.5  | 7031.9  | 7154.1  | 7094.5  | 6820.5  | 6212.9  | 6150.3  | 5301.5  |
| 15°   | 6266.5  | 6299.3  | 6451.2  | 6746.0  | 7124.3  | 7469.8  | 7618.7  | 7422.1  | 6760.9  | 6659.6  | 5596.4  |
| 17.5° | 5927.0  | 5974.6  | 6192.0  | 6582.2  | 7100.4  | 7696.1  | 8116.1  | 8050.5  | 7344.7  | 7249.4  | 5918.0  |
| 20°   | 5670.8  | 5706.6  | 5891.2  | 6338.0  | 6999.2  | 7821.2  | 8589.6  | 8774.3  | 8065.4  | 7901.6  | 6296.3  |
| 22.5° | 5840.6  | 5852.5  | 5915.1  | 6183.1  | 6817.5  | 7854.0  | 9006.6  | 9527.8  | 8830.9  | 8684.9  | 6689.4  |
| 25°   | 6671.6  | 6552.4  | 6489.9  | 6430.3  | 6778.8  | 7824.2  | 9384.9  | 10314.1 | 9593.3  | 9438.5  | 7079.6  |
| 27.5° | 7982.0  | 7928.4  | 7612.7  | 7189.8  | 7109.4  | 7862.9  | 9635.0  | 11058.7 | 10311.1 | 10144.3 | 7460.8  |
| 30°   | 9408.7  | 9316.4  | 9122.8  | 8503.3  | 7880.8  | 8136.9  | 9816.7  | 11782.5 | 11160.0 | 10939.6 | 7809.3  |
| 32.5° | 10719.2 | 10778.7 | 10489.8 | 9852.5  | 9131.7  | 8720.7  | 10052.0 | 12571.7 | 12133.9 | 11859.9 | 8214.4  |
| 35°   | 12247.1 | 12366.2 | 11922.4 | 11311.9 | 10469.0 | 9775.0  | 10510.7 | 13462.3 | 13369.9 | 13024.4 | 8839.8  |
| 37.5° | 13798.8 | 13870.3 | 13599.3 | 12741.5 | 11982.0 | 11115.3 | 11374.4 | 14561.3 | 14891.9 | 14597.0 | 9587.4  |
| 40°   | 15103.3 | 15201.6 | 15002.1 | 14239.6 | 13429.5 | 12667.0 | 12628.3 | 15758.6 | 16702.7 | 16398.9 | 10701.3 |
| 42.5° | 16101.1 | 16175.6 | 16181.5 | 15642.4 | 14912.7 | 14567.2 | 14227.7 | 17286.5 | 18972.2 | 18620.8 | 11993.9 |
| 45°   | 17360.9 | 17468.2 | 17405.6 | 17039.3 | 16494.2 | 16431.7 | 16256.0 | 19133.1 | 21688.5 | 21244.7 | 13670.7 |
| 47.5° | 19308.8 | 19380.3 | 19225.4 | 18793.5 | 18239.6 | 18337.9 | 18233.6 | 21203.0 | 24458.4 | 24077.2 | 15407.1 |
| 50°   | 20661.0 | 20780.1 | 21000.5 | 21173.3 | 20771.2 | 20407.8 | 20098.1 | 23136.0 | 27088.3 | 26745.8 | 17182.2 |
| 52.5° | 20646.1 | 20842.7 | 21539.6 | 22409.3 | 23287.9 | 23177.7 | 22287.2 | 25271.5 | 29599.1 | 29176.2 | 18850.1 |
| 55°   | 19255.2 | 19636.4 | 20661.0 | 22203.8 | 24637.1 | 25849.3 | 25444.3 | 27743.6 | 31767.3 | 31481.4 | 20783.1 |
| 57.5° | 16384.0 | 16616.4 | 18040.0 | 20196.4 | 23883.6 | 27106.2 | 29101.7 | 31094.2 | 34367.5 | 34233.4 | 23785.3 |
| 60°   | 11020.0 | 11124.2 | 12955.9 | 15621.6 | 20333.4 | 25852.3 | 31782.2 | 35147.8 | 37569.2 | 37503.7 | 27290.8 |
| 62.5° | 6314.2  | 6358.8  | 7687.2  | 9935.9  | 14468.9 | 21908.9 | 32008.6 | 40148.5 | 41408.3 | 41444.1 | 31347.4 |
| 65°   | 3398.3  | 3422.2  | 4494.4  | 5831.7  | 8804.1  | 15615.6 | 28783.0 | 42888.6 | 44511.8 | 44580.3 | 33861.1 |
| 66°   | 2933.7  | 2820.5  | 3577.0  | 4970.9  | 7005.1  | 12428.8 | 26742.8 | 42790.3 | 45107.5 | 45033.0 | 33771.8 |
| 67.5° | 2230.8  | 2332.1  | 2856.3  | 3821.3  | 5191.3  | 8836.8  | 22078.7 | 40887.1 | 44654.8 | 44422.5 | 32398.8 |
| 70°   | 1596.4  | 1638.1  | 2034.2  | 2725.2  | 3535.3  | 4848.8  | 14108.6 | 33959.4 | 40586.3 | 40273.6 | 28226.1 |
| 72.5° | 1030.5  | 1075.2  | 1441.5  | 1971.7  | 2555.4  | 2647.8  | 7898.6  | 24535.9 | 31290.8 | 31246.1 | 21256.7 |
| 75°   | 735.7   | 777.4   | 953.1   | 1411.7  | 1921.1  | 1638.1  | 3803.4  | 16535.9 | 19892.6 | 19758.5 | 13149.5 |
| 77.5° | 533.1   | 554.0   | 637.4   | 923.3   | 1373.0  | 1173.5  | 1763.2  | 8830.9  | 9903.1  | 10370.7 | 5810.8  |
| 80°   | 306.8   | 324.6   | 443.8   | 562.9   | 929.3   | 801.2   | 842.9   | 3544.3  | 3654.5  | 3478.7  | 1816.8  |
| 82.5° | 151.9   | 172.7   | 265.1   | 384.2   | 580.8   | 539.1   | 387.2   | 1066.3  | 1125.8  | 1096.0  | 458.7   |
| 85°   | 35.7    | 44.7    | 148.9   | 253.2   | 282.9   | 241.2   | 187.6   | 312.7   | 387.2   | 378.3   | 175.7   |
| 87.5° | 3.0     | 6.0     | 53.6    | 44.7    | 47.7    | 80.4    | 65.5    | 80.4    | 125.1   | 116.2   | 62.5    |
| 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: P456587  
 CATALOG NUMBER: GALN-SA7D-760-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 4405.0  | 4405.0 | 4405.0 | 4405.0 | 4405.0 | 4405.0 | 4405.0 | 4405.0 | 4405.0 | 4405.0 | 4405.0 |
| 2.5°  | 4443.7  | 4387.1 | 4223.3 | 4062.5 | 3928.5 | 3788.5 | 3660.4 | 3586.0 | 3556.2 | 3523.4 | 3538.3 |
| 5°    | 4506.3  | 4369.3 | 4038.7 | 3752.8 | 3472.8 | 3234.5 | 3043.9 | 2921.8 | 2862.2 | 2853.3 | 2838.4 |
| 7.5°  | 4589.7  | 4354.4 | 3842.1 | 3395.3 | 3029.0 | 2763.9 | 2546.5 | 2370.8 | 2317.2 | 2269.5 | 2230.8 |
| 10°   | 4690.9  | 4327.6 | 3597.9 | 3020.1 | 2629.9 | 2296.3 | 2010.4 | 1801.9 | 1694.7 | 1664.9 | 1685.8 |
| 12.5° | 4798.2  | 4276.9 | 3341.7 | 2674.6 | 2224.8 | 1798.9 | 1533.9 | 1429.6 | 1399.8 | 1387.9 | 1390.9 |
| 15°   | 4905.4  | 4214.4 | 3073.7 | 2341.0 | 1772.1 | 1435.6 | 1313.5 | 1286.7 | 1274.7 | 1268.8 | 1262.8 |
| 17.5° | 5003.7  | 4113.1 | 2772.9 | 2016.4 | 1435.6 | 1227.1 | 1182.4 | 1158.6 | 1134.8 | 1125.8 | 1110.9 |
| 20°   | 5119.8  | 3997.0 | 2501.8 | 1653.0 | 1215.2 | 1110.9 | 1057.3 | 1012.6 | 976.9  | 953.1  | 950.1  |
| 22.5° | 5230.0  | 3848.1 | 2218.9 | 1370.1 | 1108.0 | 997.8  | 911.4  | 863.7  | 822.0  | 792.2  | 801.2  |
| 25°   | 5289.6  | 3666.4 | 1965.7 | 1194.3 | 1009.7 | 884.6  | 789.3  | 729.7  | 685.0  | 670.1  | 667.2  |
| 27.5° | 5289.6  | 3443.0 | 1718.5 | 1093.1 | 920.3  | 783.3  | 685.0  | 628.4  | 598.7  | 577.8  | 580.8  |
| 30°   | 5247.9  | 3195.8 | 1489.2 | 1015.6 | 842.9  | 694.0  | 601.6  | 551.0  | 527.2  | 512.3  | 509.3  |
| 32.5° | 5215.1  | 2960.5 | 1292.6 | 941.2  | 762.5  | 616.5  | 536.1  | 497.4  | 473.6  | 458.7  | 458.7  |
| 35°   | 5265.8  | 2758.0 | 1140.7 | 866.7  | 688.0  | 557.0  | 485.5  | 449.7  | 425.9  | 414.0  | 411.0  |
| 37.5° | 5399.8  | 2573.3 | 1024.6 | 786.3  | 619.5  | 506.3  | 449.7  | 408.0  | 384.2  | 369.3  | 363.4  |
| 40°   | 5730.4  | 2469.1 | 938.2  | 711.8  | 554.0  | 464.6  | 408.0  | 369.3  | 339.5  | 324.6  | 321.7  |
| 42.5° | 6260.5  | 2472.1 | 854.8  | 643.3  | 503.3  | 428.9  | 372.3  | 327.6  | 294.9  | 280.0  | 277.0  |
| 45°   | 7058.7  | 2585.2 | 789.3  | 577.8  | 458.7  | 390.2  | 333.6  | 285.9  | 256.1  | 241.2  | 241.2  |
| 47.5° | 8014.8  | 2805.6 | 732.7  | 521.2  | 417.0  | 354.4  | 294.9  | 247.2  | 217.4  | 205.5  | 205.5  |
| 50°   | 9051.3  | 3091.6 | 676.1  | 461.6  | 381.2  | 315.7  | 253.2  | 214.4  | 190.6  | 181.7  | 181.7  |
| 52.5° | 10108.6 | 3437.0 | 619.5  | 414.0  | 342.5  | 274.0  | 217.4  | 190.6  | 169.8  | 163.8  | 160.8  |
| 55°   | 11496.5 | 3877.8 | 559.9  | 363.4  | 300.8  | 235.3  | 193.6  | 166.8  | 143.0  | 134.0  | 131.0  |
| 57.5° | 13632.0 | 4542.0 | 494.4  | 318.7  | 247.2  | 196.6  | 166.8  | 140.0  | 113.2  | 98.3   | 95.3   |
| 60°   | 16208.3 | 5352.1 | 425.9  | 280.0  | 199.6  | 160.8  | 134.0  | 107.2  | 83.4   | 65.5   | 62.5   |
| 62.5° | 18620.8 | 5867.4 | 360.4  | 235.3  | 157.9  | 122.1  | 95.3   | 80.4   | 59.6   | 41.7   | 38.7   |
| 65°   | 19687.1 | 5694.7 | 297.8  | 190.6  | 125.1  | 86.4   | 62.5   | 56.6   | 35.7   | 17.9   | 14.9   |
| 66°   | 19332.6 | 5438.5 | 274.0  | 172.7  | 113.2  | 74.5   | 53.6   | 47.7   | 26.8   | 8.9    | 8.9    |
| 67.5° | 18287.2 | 4833.9 | 238.3  | 148.9  | 98.3   | 59.6   | 41.7   | 35.7   | 14.9   | 3.0    | 0.0    |
| 70°   | 15669.2 | 3910.6 | 187.6  | 110.2  | 71.5   | 41.7   | 23.8   | 17.9   | 8.9    | 0.0    | 0.0    |
| 72.5° | 12035.6 | 2912.9 | 148.9  | 83.4   | 50.6   | 23.8   | 11.9   | 6.0    | 8.9    | 0.0    | 0.0    |
| 75°   | 7374.5  | 1664.9 | 116.2  | 62.5   | 32.8   | 14.9   | 8.9    | 0.0    | 8.9    | 3.0    | 0.0    |
| 77.5° | 3273.2  | 747.6  | 77.4   | 41.7   | 23.8   | 11.9   | 6.0    | 0.0    | 6.0    | 3.0    | 0.0    |
| 80°   | 828.0   | 244.2  | 44.7   | 29.8   | 17.9   | 8.9    | 3.0    | 0.0    | 6.0    | 6.0    | 3.0    |
| 82.5° | 226.4   | 89.4   | 32.8   | 23.8   | 14.9   | 8.9    | 3.0    | 0.0    | 6.0    | 6.0    | 6.0    |
| 85°   | 89.4    | 41.7   | 29.8   | 23.8   | 17.9   | 8.9    | 3.0    | 0.0    | 6.0    | 6.0    | 6.0    |
| 87.5° | 41.7    | 29.8   | 29.8   | 26.8   | 20.8   | 8.9    | 3.0    | 0.0    | 6.0    | 3.0    | 6.0    |
| 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)