

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: P533302

Luminaire Tested: **GALN-SA8D-727-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533302  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8D-727-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 44280 lumens  
Efficiency: N/A  
Efficacy: 89.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

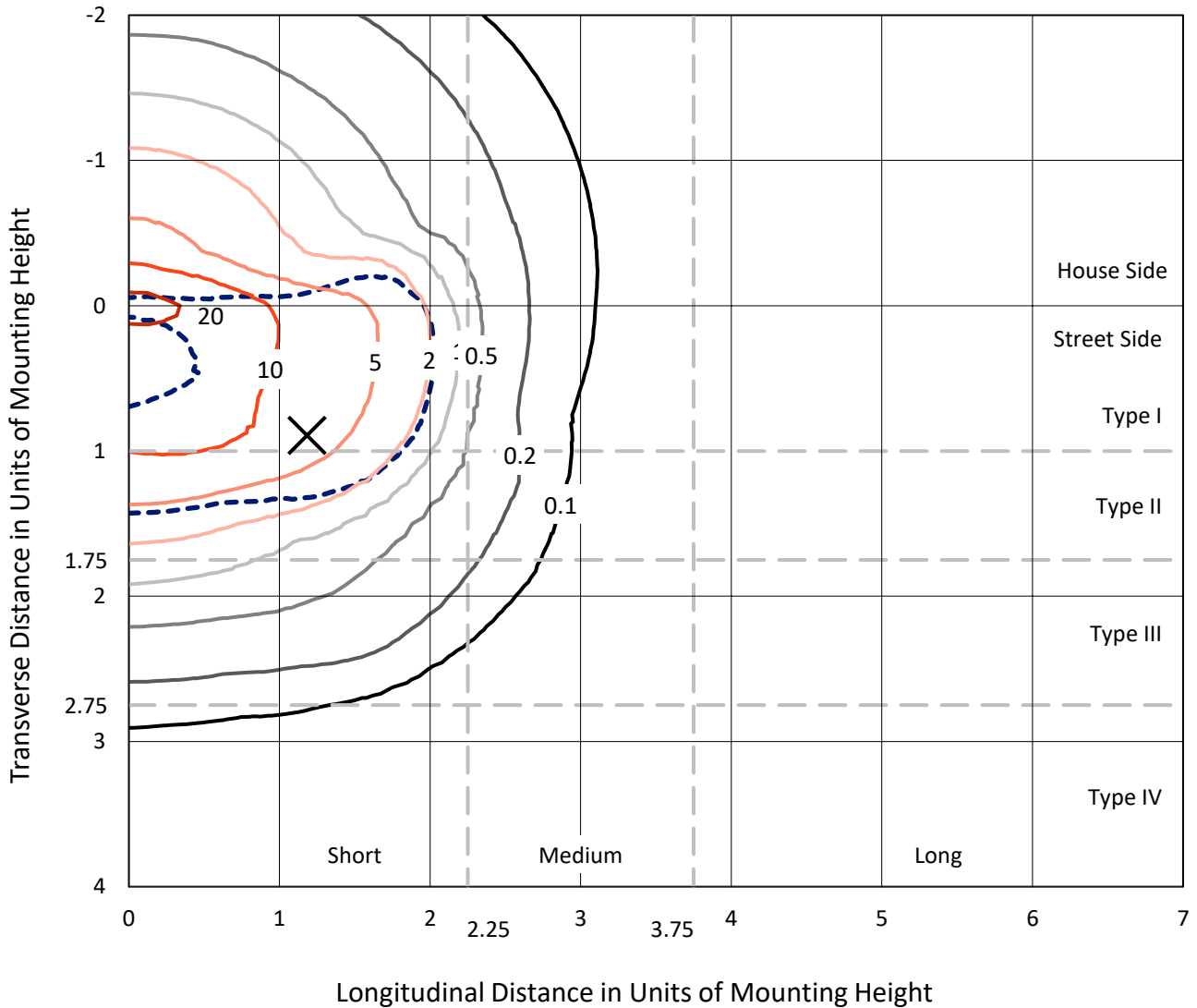
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

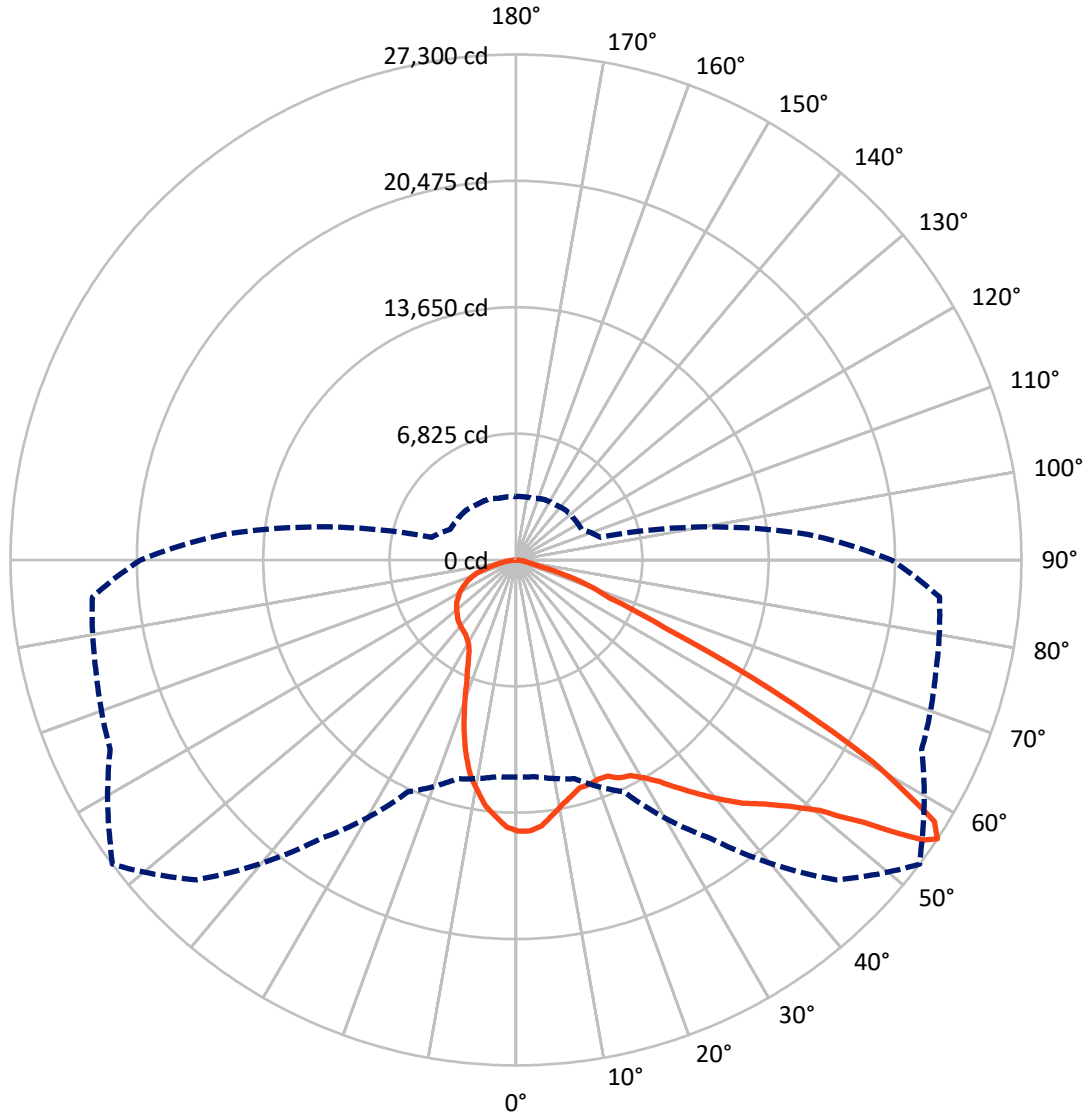
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.4 fc  
 Type II - Short - N/A

REPORT NUMBER: P533302  
CATALOG NUMBER: GALN-SA8D-727-U-SL2-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

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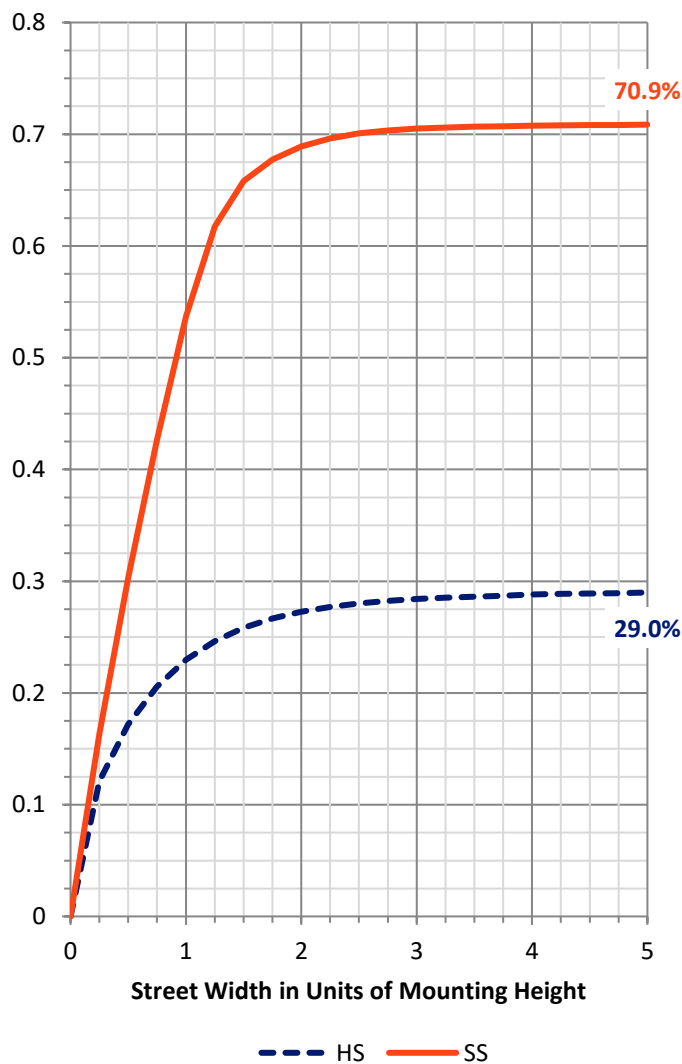
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 12921.9  | 0.0    | 12921.9 |
|                    | % Fixture | 29.2     | 0.0    | 29.2    |
| <b>Street Side</b> | Lumens    | 31358.1  | 0.0    | 31358.1 |
|                    | % Fixture | 70.8     | 0.0    | 70.8    |
| <b>Total</b>       | Lumens    | 44280.0  | 0.0    | 44280.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1296.9  | 2.9       |
| 10°-20°   | 3239.1  | 7.3       |
| 20°-30°   | 4776.3  | 10.8      |
| 30°-40°   | 6824.5  | 15.4      |
| 40°-50°   | 9393.0  | 21.2      |
| 50°-60°   | 11100.0 | 25.1      |
| 60°-70°   | 5915.5  | 13.4      |
| 70°-80°   | 1500.7  | 3.4       |
| 80°-90°   | 234.0   | 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°    | 44280.0 | 100.0     |
| 0°-180°   | 44280.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P533302

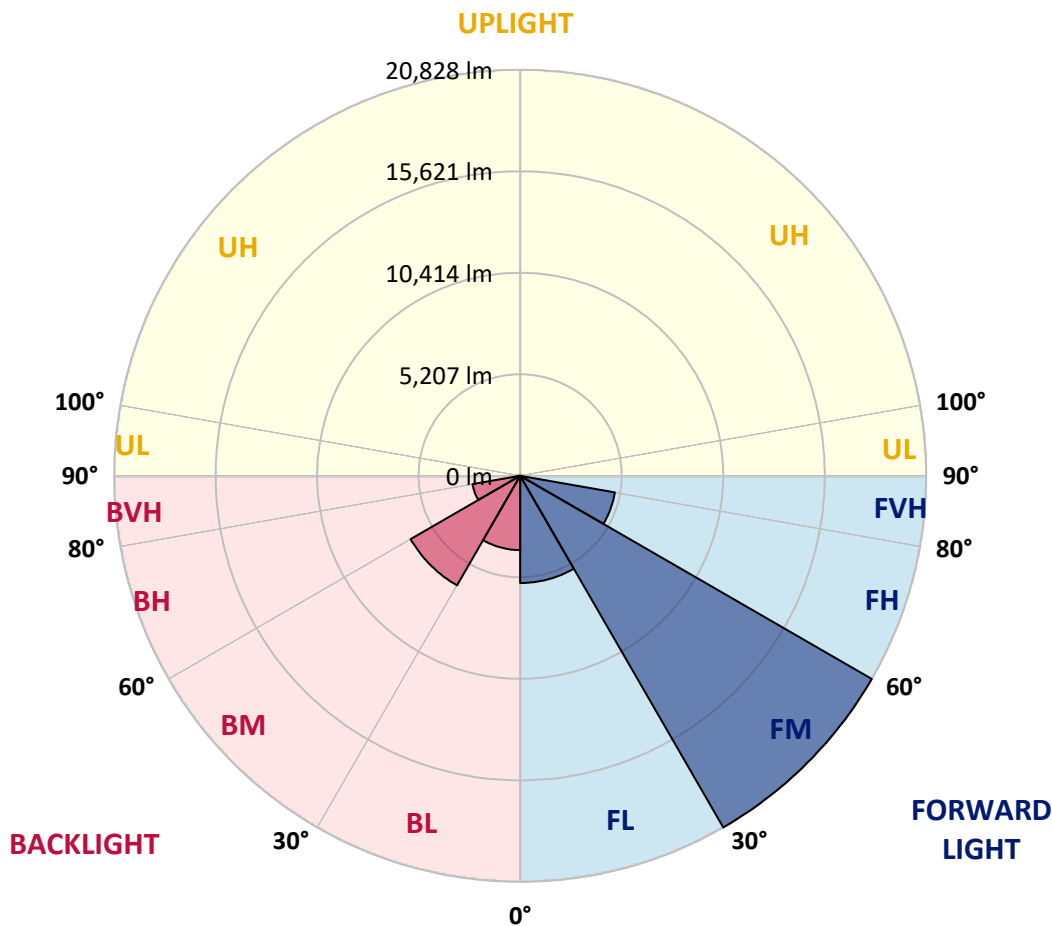
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 5501.2  | 12.4      |                         |      |         |
| FM (30°-60°)   | 20828.5 | 47.0      |                         |      |         |
| FH (60°-80°)   | 4934.5  | 11.1      |                         |      | G2/5000 |
| FVH (80°-90°)  | 94.1    | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 3811.2  | 8.6       | B4/5000                 |      |         |
| BM (30°-60°)   | 6488.9  | 14.7      | B4/8500                 |      |         |
| BH (60°-80°)   | 2481.8  | 5.6       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 139.9   | 0.3       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G3**

Type II Short





REPORT NUMBER: P533302

CATALOG NUMBER: GALN-SA8D-727-U-SL2-GRSWH

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 53°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 14649.6 | 14649.6 | 14649.6 | 14649.6 | 14649.6 | 14649.6 | 14649.6 | 14649.6 | 14649.6 | 14649.6 | 14649.6 |
| 2.5°  | 14467.8 | 14342.8 | 14416.7 | 14388.3 | 14621.2 | 14689.3 | 14655.2 | 14683.7 | 14814.3 | 14751.8 | 14621.2 |
| 5°    | 13519.2 | 13695.3 | 13729.4 | 13814.6 | 13950.9 | 14217.9 | 14428.0 | 14484.8 | 14547.3 | 14837.0 | 14808.6 |
| 7.5°  | 12655.8 | 12775.1 | 12712.6 | 12962.5 | 13257.9 | 13689.6 | 13945.2 | 13990.7 | 14564.4 | 14723.4 | 14842.7 |
| 10°   | 12110.5 | 11991.2 | 12275.2 | 12343.4 | 12678.5 | 13172.7 | 13479.4 | 13666.9 | 14189.5 | 14820.0 | 14893.8 |
| 12.5° | 11604.9 | 11565.2 | 11735.6 | 11928.7 | 12303.6 | 12814.8 | 13127.2 | 13201.1 | 14007.7 | 14672.3 | 15018.8 |
| 15°   | 11230.0 | 11184.6 | 11355.0 | 11497.0 | 11934.4 | 12388.8 | 12786.4 | 12996.6 | 13808.9 | 14587.1 | 14910.9 |
| 17.5° | 10934.6 | 10929.0 | 11025.5 | 11281.1 | 11729.9 | 12110.5 | 12752.3 | 12763.7 | 13706.6 | 14717.7 | 15001.7 |
| 20°   | 10917.6 | 10911.9 | 10929.0 | 11213.0 | 11622.0 | 12087.7 | 12644.4 | 12746.7 | 13706.6 | 14626.8 | 15007.4 |
| 22.5° | 11059.6 | 10968.7 | 11071.0 | 11252.7 | 11548.1 | 12127.5 | 12684.2 | 12911.4 | 14036.1 | 15075.6 | 15263.0 |
| 25°   | 11286.8 | 11309.5 | 11366.3 | 11428.8 | 11599.2 | 12218.4 | 13036.4 | 13223.8 | 14422.4 | 15461.9 | 15615.2 |
| 27.5° | 11701.5 | 11690.1 | 11712.8 | 11746.9 | 11894.6 | 12303.6 | 13178.4 | 13661.2 | 15229.0 | 16149.2 | 15995.8 |
| 30°   | 12309.3 | 12269.5 | 12360.4 | 12479.7 | 12343.4 | 12576.2 | 13649.8 | 14013.4 | 15978.8 | 16842.2 | 16421.8 |
| 32.5° | 12860.3 | 13008.0 | 13178.4 | 13229.5 | 13064.8 | 13110.2 | 14274.7 | 14643.9 | 16603.6 | 17694.2 | 16944.4 |
| 35°   | 13547.6 | 13666.9 | 13894.1 | 14053.1 | 14024.7 | 13888.4 | 15126.7 | 15615.2 | 17506.8 | 18319.1 | 17495.4 |
| 37.5° | 14217.9 | 14359.9 | 14734.8 | 15206.2 | 14944.9 | 14882.5 | 16035.6 | 16438.9 | 17785.1 | 18654.2 | 17898.7 |
| 40°   | 15297.1 | 15291.4 | 15939.0 | 16183.3 | 16416.2 | 16308.2 | 16978.5 | 17114.8 | 17932.8 | 18580.4 | 17910.1 |
| 42.5° | 16563.8 | 16484.3 | 17143.2 | 17523.8 | 17824.9 | 17836.2 | 17961.2 | 17915.8 | 18001.0 | 18205.5 | 17790.8 |
| 45°   | 17768.1 | 17938.5 | 18603.1 | 19284.7 | 19585.8 | 19619.9 | 18790.5 | 18705.3 | 18120.3 | 18097.5 | 17563.6 |
| 47.5° | 19239.3 | 19279.0 | 19824.3 | 20721.8 | 21420.5 | 21181.9 | 19864.1 | 19676.7 | 18642.8 | 18818.9 | 17944.2 |
| 50°   | 19324.5 | 19619.9 | 20108.4 | 21164.9 | 23312.1 | 23249.6 | 21255.8 | 20903.6 | 19483.5 | 19841.4 | 19006.4 |
| 52.5° | 17540.9 | 17472.7 | 18052.1 | 19778.9 | 23170.1 | 25305.9 | 23562.0 | 22721.3 | 21289.9 | 21017.2 | 20727.5 |
| 55°   | 13365.8 | 13524.9 | 14036.1 | 15780.0 | 20119.7 | 25334.3 | 26703.2 | 26015.9 | 23221.2 | 22755.4 | 22420.3 |
| 56°   | 11724.2 | 11746.9 | 12229.7 | 13820.2 | 18358.8 | 24431.1 | 27299.7 | 26743.0 | 24181.2 | 23471.1 | 22959.9 |
| 57.5° | 9719.0  | 9588.4  | 9838.3  | 10707.4 | 15495.9 | 22522.5 | 26646.4 | 27191.7 | 25305.9 | 24243.6 | 23533.6 |
| 60°   | 7651.4  | 7623.0  | 7520.8  | 7679.8  | 9792.9  | 16967.1 | 22181.7 | 23408.6 | 25192.3 | 23516.6 | 22539.5 |
| 62.5° | 6248.4  | 6106.4  | 6310.8  | 6538.1  | 6805.0  | 10525.7 | 15586.8 | 16308.2 | 20000.4 | 18773.5 | 16933.1 |
| 65°   | 4845.3  | 4777.2  | 5032.8  | 5771.2  | 5930.3  | 6685.7  | 8878.4  | 9435.0  | 11809.4 | 11599.2 | 10213.2 |
| 67.5° | 3334.4  | 3345.7  | 3567.2  | 4692.0  | 5498.6  | 5430.4  | 5436.1  | 5725.8  | 6163.2  | 4578.3  | 3987.6  |
| 70°   | 2113.1  | 2107.4  | 2226.7  | 3021.9  | 4425.0  | 4470.4  | 4243.2  | 4158.0  | 3942.1  | 2385.7  | 2527.7  |
| 72.5° | 1357.6  | 1317.8  | 1380.3  | 1670.0  | 2289.2  | 2647.0  | 2726.6  | 2777.7  | 2283.5  | 1874.5  | 2033.6  |
| 75°   | 766.8   | 727.1   | 704.4   | 778.2   | 903.2   | 1045.2  | 1147.4  | 1181.5  | 1323.5  | 1420.1  | 1505.3  |
| 77.5° | 232.9   | 210.2   | 255.6   | 340.8   | 448.7   | 602.1   | 732.8   | 755.5   | 891.8   | 1005.4  | 1090.6  |
| 80°   | 102.2   | 113.6   | 159.0   | 227.2   | 318.1   | 426.0   | 516.9   | 551.0   | 641.9   | 727.1   | 749.8   |
| 82.5° | 62.5    | 68.2    | 107.9   | 153.4   | 221.5   | 301.1   | 369.2   | 380.6   | 471.5   | 539.6   | 556.7   |
| 85°   | 22.7    | 28.4    | 56.8    | 90.9    | 142.0   | 193.1   | 193.1   | 210.2   | 193.1   | 193.1   | 210.2   |
| 87.5° | 0.0     | 0.0     | 5.7     | 11.4    | 11.4    | 17.0    | 22.7    | 22.7    | 28.4    | 34.1    | 39.8    |
| 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: P533302

CATALOG NUMBER: GALN-SA8D-727-U-SL2-GRSWH

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°    | 165°    | 175°    | 180°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 14649.6 | 14649.6 | 14649.6 | 14649.6 | 14649.6 | 14649.6 | 14649.6 | 14649.6 | 14649.6 | 14649.6 | 14649.6 |
| 2.5°  | 14689.3 | 14660.9 | 14615.5 | 14450.8 | 14433.7 | 14382.6 | 14098.6 | 14053.1 | 14098.6 | 13962.2 | 13973.6 |
| 5°    | 14660.9 | 14746.1 | 14405.3 | 14240.6 | 13933.8 | 13712.3 | 13456.7 | 13326.1 | 13093.2 | 12945.5 | 13110.2 |
| 7.5°  | 14785.9 | 14751.8 | 14325.8 | 13967.9 | 13507.8 | 12945.5 | 12496.7 | 12241.1 | 11832.1 | 11718.5 | 11803.7 |
| 10°   | 14740.5 | 14558.7 | 14058.8 | 13587.3 | 12718.3 | 12224.1 | 11497.0 | 10792.6 | 10406.4 | 10207.6 | 10179.2 |
| 12.5° | 14678.0 | 14626.8 | 13791.8 | 12979.6 | 12065.0 | 11025.5 | 10003.1 | 9338.5  | 8707.9  | 8435.3  | 8475.1  |
| 15°   | 14751.8 | 14320.1 | 13292.0 | 12263.8 | 11048.2 | 9685.0  | 8583.0  | 7725.2  | 7287.9  | 7111.8  | 7111.8  |
| 17.5° | 14717.7 | 14172.4 | 13053.4 | 11462.9 | 9923.5  | 8310.3  | 7100.4  | 6583.5  | 6401.7  | 6401.7  | 6452.9  |
| 20°   | 14734.8 | 14269.0 | 12570.6 | 10662.0 | 8594.3  | 6998.2  | 6117.7  | 5930.3  | 6009.8  | 6038.2  | 6066.6  |
| 22.5° | 14831.3 | 13950.9 | 12099.1 | 9781.5  | 7361.7  | 5987.1  | 5555.4  | 5561.0  | 5703.1  | 5856.4  | 5828.0  |
| 25°   | 14950.6 | 13825.9 | 11525.4 | 8906.8  | 6418.8  | 5492.9  | 5356.6  | 5339.5  | 5447.4  | 5527.0  | 5538.3  |
| 27.5° | 14848.4 | 13610.1 | 10940.3 | 7816.1  | 5646.2  | 5163.4  | 5135.0  | 5146.4  | 5180.5  | 5339.5  | 5288.4  |
| 30°   | 15183.5 | 13672.6 | 10207.6 | 6901.6  | 5220.2  | 5055.5  | 5021.4  | 5004.4  | 5055.5  | 5100.9  | 5061.2  |
| 32.5° | 15598.2 | 13451.0 | 9662.2  | 6021.1  | 5010.1  | 4976.0  | 4907.8  | 4885.1  | 4913.5  | 4868.0  | 4890.8  |
| 35°   | 15780.0 | 13411.3 | 8952.2  | 5390.6  | 4845.3  | 4816.9  | 4777.2  | 4771.5  | 4777.2  | 4737.4  | 4703.3  |
| 37.5° | 15882.2 | 13598.7 | 8139.9  | 5100.9  | 4743.1  | 4771.5  | 4680.6  | 4669.2  | 4567.0  | 4589.7  | 4606.7  |
| 40°   | 16058.3 | 13309.0 | 7481.0  | 4822.6  | 4680.6  | 4623.8  | 4544.3  | 4527.2  | 4459.1  | 4419.3  | 4459.1  |
| 42.5° | 15802.7 | 13223.8 | 6833.4  | 4703.3  | 4589.7  | 4527.2  | 4470.4  | 4373.9  | 4351.1  | 4317.1  | 4294.3  |
| 45°   | 15598.2 | 12735.3 | 6254.0  | 4555.6  | 4481.8  | 4447.7  | 4339.8  | 4237.5  | 4152.3  | 4186.4  | 4135.3  |
| 47.5° | 15751.6 | 12564.9 | 5680.3  | 4430.7  | 4334.1  | 4294.3  | 4186.4  | 4106.9  | 4021.7  | 3981.9  | 3970.6  |
| 50°   | 16365.0 | 12883.0 | 5197.5  | 4339.8  | 4209.1  | 4186.4  | 4044.4  | 3953.5  | 3874.0  | 3845.6  | 3856.9  |
| 52.5° | 17830.6 | 13752.1 | 4868.0  | 4152.3  | 4089.8  | 3987.6  | 3908.1  | 3794.5  | 3743.3  | 3652.5  | 3709.3  |
| 55°   | 19688.0 | 15166.5 | 4782.8  | 3976.2  | 3942.1  | 3851.3  | 3743.3  | 3658.1  | 3561.6  | 3487.7  | 3470.7  |
| 56°   | 20284.5 | 15842.4 | 4714.7  | 3908.1  | 3851.3  | 3800.1  | 3658.1  | 3607.0  | 3453.6  | 3436.6  | 3425.2  |
| 57.5° | 20767.3 | 16438.9 | 4726.0  | 3777.4  | 3720.6  | 3675.2  | 3590.0  | 3465.0  | 3362.8  | 3300.3  | 3328.7  |
| 60°   | 19676.7 | 15388.0 | 4510.2  | 3578.6  | 3567.2  | 3482.0  | 3362.8  | 3306.0  | 3181.0  | 3107.1  | 3090.1  |
| 62.5° | 14626.8 | 10446.1 | 3658.1  | 3323.0  | 3317.3  | 3226.4  | 3090.1  | 3027.6  | 3004.9  | 2902.6  | 2902.6  |
| 65°   | 8423.9  | 6549.4  | 3163.9  | 3112.8  | 3067.4  | 2976.5  | 2840.2  | 2789.0  | 2732.2  | 2698.2  | 2669.8  |
| 67.5° | 3595.6  | 3396.8  | 2874.2  | 2868.6  | 2817.4  | 2703.8  | 2567.5  | 2488.0  | 2414.1  | 2346.0  | 2380.1  |
| 70°   | 2607.3  | 2647.0  | 2595.9  | 2567.5  | 2505.0  | 2363.0  | 2243.7  | 2147.2  | 2033.6  | 1988.1  | 2022.2  |
| 72.5° | 2067.6  | 2152.8  | 2226.7  | 2232.4  | 2158.5  | 1993.8  | 1863.1  | 1732.5  | 1607.5  | 1545.0  | 1573.5  |
| 75°   | 1567.8  | 1624.6  | 1698.4  | 1715.5  | 1607.5  | 1493.9  | 1369.0  | 1232.6  | 1136.1  | 1062.2  | 1073.6  |
| 77.5° | 1130.4  | 1119.0  | 1187.2  | 1175.8  | 1124.7  | 1045.2  | 931.6   | 806.6   | 698.7   | 630.5   | 636.2   |
| 80°   | 772.5   | 789.6   | 829.3   | 823.6   | 761.2   | 710.0   | 624.8   | 522.6   | 443.1   | 386.3   | 374.9   |
| 82.5° | 539.6   | 568.0   | 602.1   | 573.7   | 522.6   | 471.5   | 409.0   | 335.1   | 272.7   | 227.2   | 215.9   |
| 85°   | 193.1   | 221.5   | 255.6   | 272.7   | 289.7   | 278.3   | 232.9   | 187.5   | 136.3   | 113.6   | 107.9   |
| 87.5° | 39.8    | 45.4    | 51.1    | 51.1    | 51.1    | 45.4    | 39.8    | 39.8    | 34.1    | 17.0    | 17.0    |
| 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)