

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: P531386

Luminaire Tested: **GALN-SA6C-830-U-T2-GRSWH**

Issue Date: 5/27/2021

### Test Information

Test Method: LM-79-08  
Report Number: P531386  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6C-830-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 27788 lumens  
Efficiency: N/A  
Efficacy: 86.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 321  
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

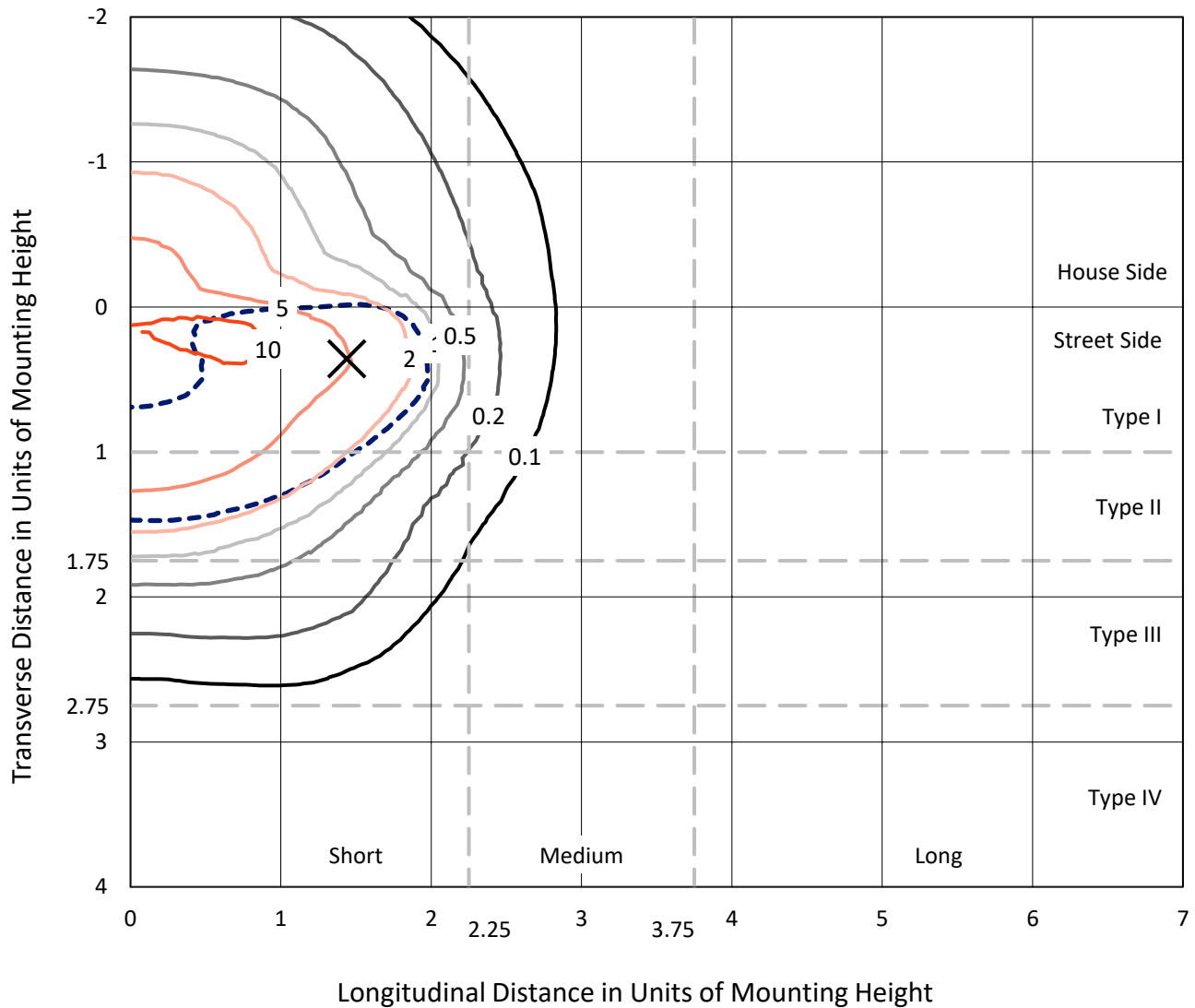


REPORT NUMBER: P531386

CATALOG NUMBER: GALN-SA6C-830-U-T2-GRSWH

## Iso-Footcandle Lines of Horizontal Illumination

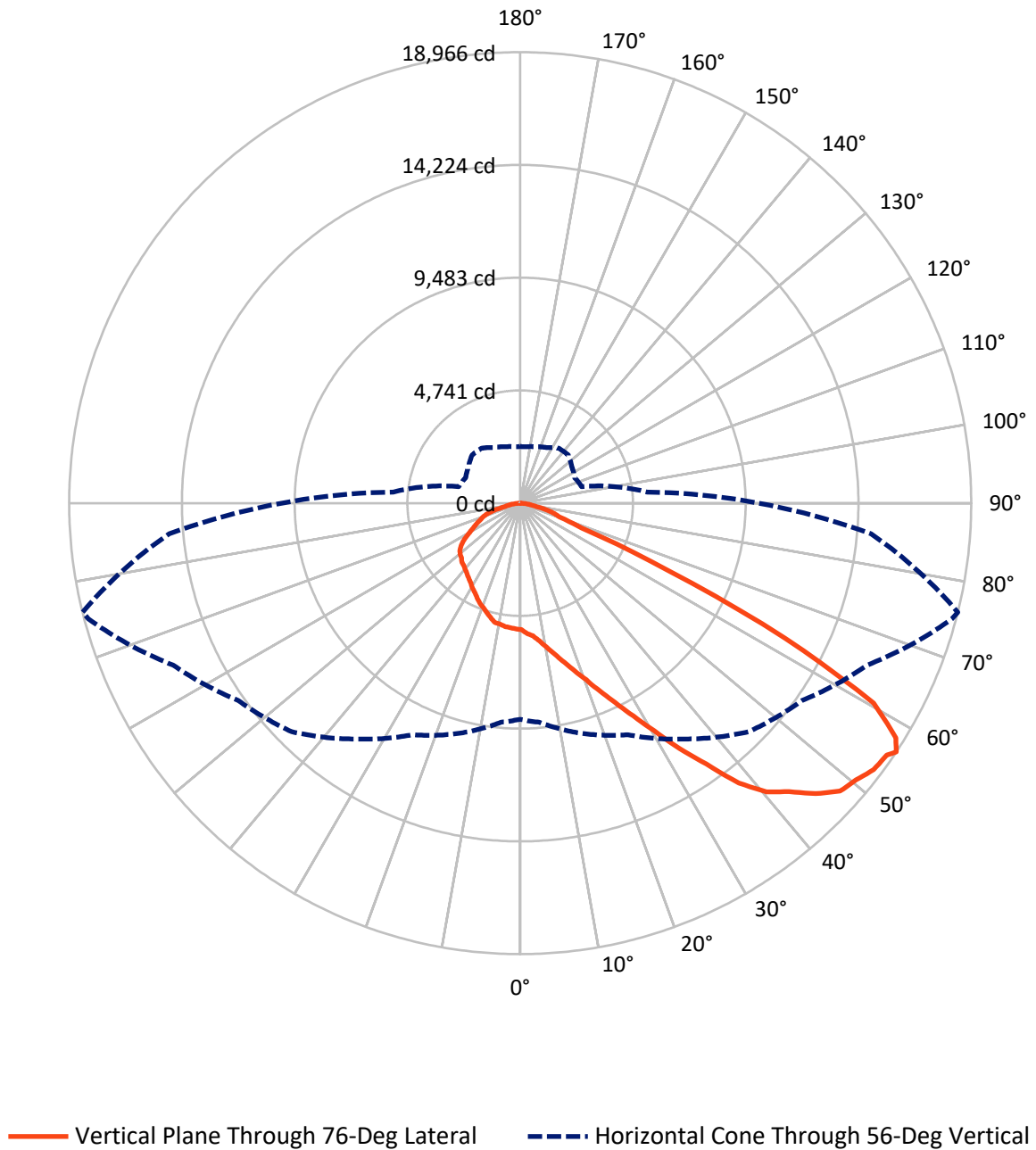
✕ Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc  
Type II - Short - N/A

REPORT NUMBER: P531386  
CATALOG NUMBER: GALN-SA6C-830-U-T2-GRSWH

## Luminous Intensity Polar Plot



REPORT NUMBER: P531386

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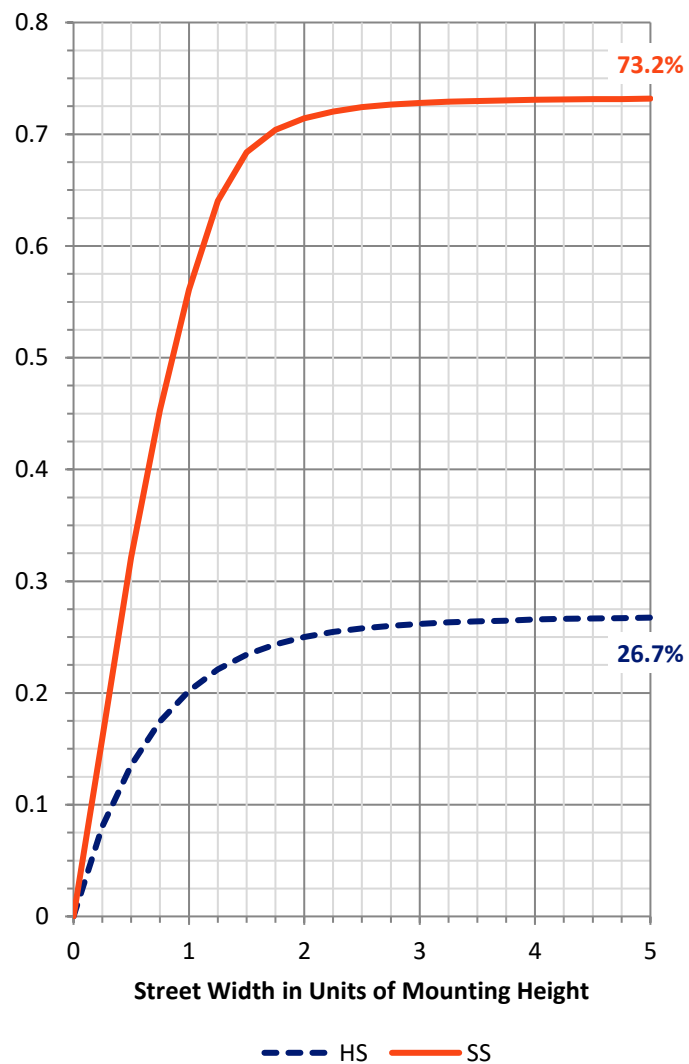
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7471.3   | 0.0    | 7471.3  |
|                    | % Fixture | 26.9     | 0.0    | 26.9    |
| <b>Street Side</b> | Lumens    | 20316.6  | 0.0    | 20316.6 |
|                    | % Fixture | 73.1     | 0.0    | 73.1    |
| <b>Total</b>       | Lumens    | 27788.0  | 0.0    | 27788.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 527.3   | 1.9       |
| 10°-20°   | 1656.3  | 6.0       |
| 20°-30°   | 2896.7  | 10.4      |
| 30°-40°   | 4535.4  | 16.3      |
| 40°-50°   | 6597.7  | 23.7      |
| 50°-60°   | 7251.3  | 26.1      |
| 60°-70°   | 3236.7  | 11.6      |
| 70°-80°   | 934.9   | 3.4       |
| 80°-90°   | 151.6   | 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°    | 27788.0 | 100.0     |
| 0°-180°   | 27788.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P531386

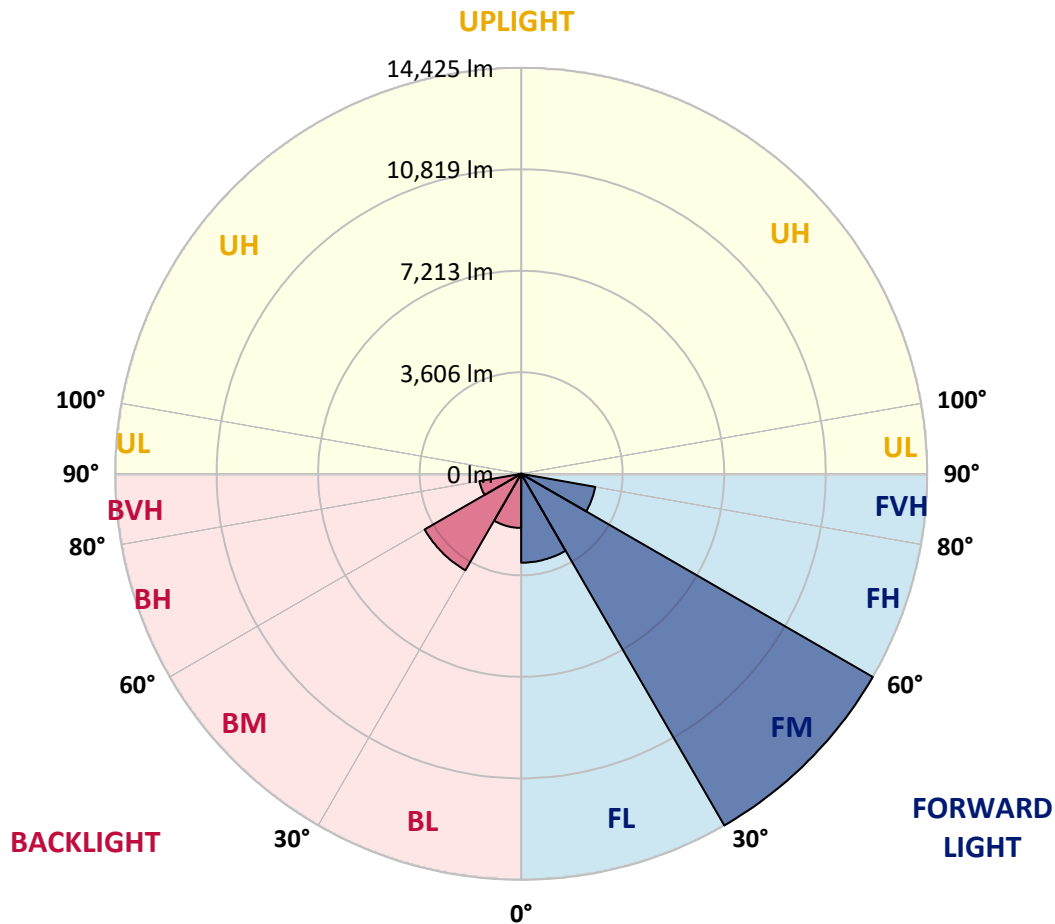
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3157.8  | 11.4      |                         |      |         |
| FM   | (30°-60°)   | 14425.3 | 51.9      |                         |      |         |
| FH   | (60°-80°)   | 2668.3  | 9.6       |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 65.3    | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1922.5  | 6.9       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 3959.2  | 14.2      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1503.2  | 5.4       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 86.4    | 0.3       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type II Short



REPORT NUMBER: P531386

CATALOG NUMBER: GALN-SA6C-830-U-T2-GRSWH

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 76°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5316.9  | 5316.9  | 5316.9  | 5316.9  | 5316.9  | 5316.9  | 5316.9  | 5316.9  | 5316.9  | 5316.9  | 5316.9  |
| 2.5°  | 5857.2  | 5763.6  | 5756.3  | 5731.1  | 5745.5  | 5680.7  | 5612.3  | 5522.2  | 5428.5  | 5486.2  | 5349.3  |
| 5°    | 6267.9  | 6141.8  | 6192.2  | 6105.8  | 6116.6  | 6030.1  | 5889.6  | 5785.2  | 5669.9  | 5601.5  | 5504.2  |
| 7.5°  | 6412.0  | 6422.8  | 6458.8  | 6444.4  | 6372.3  | 6372.3  | 6278.7  | 6095.0  | 5893.2  | 5853.6  | 5691.5  |
| 10°   | 6606.5  | 6610.1  | 6570.4  | 6581.3  | 6682.1  | 6635.3  | 6552.4  | 6473.2  | 6213.8  | 6167.0  | 5878.8  |
| 12.5° | 6674.9  | 6610.1  | 6674.9  | 6732.5  | 6851.4  | 6916.3  | 6898.3  | 6840.6  | 6563.2  | 6530.8  | 6109.4  |
| 15°   | 6685.7  | 6646.1  | 6700.1  | 6829.8  | 6934.3  | 7208.0  | 7344.9  | 7305.3  | 6937.9  | 6941.5  | 6368.7  |
| 17.5° | 6635.3  | 6689.3  | 6710.9  | 6822.6  | 7064.0  | 7319.7  | 7716.0  | 7770.0  | 7467.4  | 7420.6  | 6696.5  |
| 20°   | 6703.7  | 6664.1  | 6692.9  | 6793.8  | 7114.4  | 7514.2  | 8033.0  | 8389.6  | 7964.5  | 7932.1  | 7035.1  |
| 22.5° | 6966.7  | 6912.7  | 6905.5  | 6970.3  | 7200.8  | 7615.1  | 8368.0  | 9009.2  | 8569.7  | 8587.7  | 7456.6  |
| 25°   | 7172.0  | 7200.8  | 7175.6  | 7172.0  | 7316.1  | 7766.4  | 8811.0  | 9747.6  | 9391.0  | 9286.5  | 7953.7  |
| 27.5° | 7525.0  | 7593.5  | 7543.0  | 7611.5  | 7579.1  | 7993.3  | 9128.0  | 10565.3 | 10277.1 | 10136.6 | 8404.0  |
| 30°   | 8014.9  | 8051.0  | 8004.1  | 8004.1  | 7906.9  | 8310.3  | 9416.2  | 11419.0 | 11300.2 | 11109.2 | 8933.5  |
| 32.5° | 8659.7  | 8713.8  | 8620.1  | 8566.1  | 8551.7  | 8782.2  | 9934.9  | 12262.0 | 12463.7 | 12301.6 | 9635.9  |
| 35°   | 9513.5  | 9481.0  | 9369.4  | 9318.9  | 9124.4  | 9506.3  | 10705.8 | 13231.0 | 13760.5 | 13472.3 | 10486.1 |
| 37.5° | 10266.3 | 10215.9 | 10208.7 | 9927.7  | 9974.5  | 10287.9 | 11361.4 | 13965.8 | 15017.7 | 14934.8 | 11383.0 |
| 40°   | 10968.8 | 11015.6 | 11091.2 | 10932.7 | 10860.7 | 11206.5 | 12125.1 | 14527.8 | 15993.9 | 15961.4 | 12074.6 |
| 42.5° | 11721.6 | 11678.4 | 11811.7 | 11678.4 | 11570.3 | 12060.2 | 12953.6 | 14916.8 | 16851.2 | 16584.6 | 12798.7 |
| 45°   | 12813.1 | 12676.2 | 12723.0 | 12733.8 | 12654.6 | 12834.7 | 13295.8 | 15197.8 | 17452.8 | 17423.9 | 13328.2 |
| 47.5° | 13724.5 | 13728.1 | 13648.8 | 13587.6 | 13346.2 | 13526.3 | 13677.6 | 15374.3 | 18144.4 | 18097.6 | 13533.5 |
| 50°   | 14063.1 | 14016.2 | 14246.8 | 14380.1 | 14394.5 | 14027.0 | 13976.6 | 15471.5 | 18508.2 | 18302.9 | 13738.9 |
| 52.5° | 12845.5 | 12888.7 | 13252.6 | 14045.1 | 14502.5 | 14542.2 | 14326.0 | 15673.3 | 18655.9 | 18612.7 | 13904.6 |
| 55°   | 10338.4 | 10547.3 | 11145.3 | 12060.2 | 13144.5 | 14336.8 | 14704.3 | 15882.2 | 18735.1 | 18699.1 | 14639.4 |
| 56°   | 9088.4  | 9250.5  | 10028.6 | 10745.4 | 12107.1 | 13591.2 | 14466.5 | 16105.5 | 18796.4 | 18965.7 | 14812.3 |
| 57.5° | 7316.1  | 7503.4  | 8061.8  | 8875.9  | 10482.5 | 12171.9 | 13810.9 | 15831.8 | 18558.6 | 18623.5 | 14938.4 |
| 60°   | 4574.8  | 4592.8  | 5262.8  | 5799.6  | 6930.7  | 8580.5  | 10540.1 | 13774.9 | 17175.4 | 17081.7 | 13418.3 |
| 62.5° | 3000.6  | 3004.3  | 3613.0  | 4052.5  | 4567.6  | 4945.8  | 6203.0  | 9135.2  | 12672.6 | 12506.9 | 9553.1  |
| 65°   | 2107.3  | 2154.1  | 2626.0  | 3213.2  | 3422.1  | 3224.0  | 3184.4  | 4816.2  | 7078.4  | 6840.6  | 5133.2  |
| 67.5° | 1541.8  | 1545.4  | 1963.2  | 2593.6  | 2896.2  | 2453.1  | 1992.0  | 2352.2  | 2802.5  | 2795.3  | 2377.5  |
| 70°   | 1019.4  | 1062.7  | 1383.3  | 1938.0  | 2283.8  | 1970.4  | 1628.2  | 1682.2  | 1783.1  | 1783.1  | 1768.7  |
| 72.5° | 594.4   | 634.0   | 846.5   | 1228.4  | 1282.4  | 1232.0  | 1289.6  | 1440.9  | 1505.7  | 1502.1  | 1484.1  |
| 75°   | 338.6   | 356.6   | 403.4   | 511.5   | 637.6   | 752.9   | 947.4   | 1091.5  | 1156.3  | 1195.9  | 1149.1  |
| 77.5° | 198.1   | 208.9   | 237.7   | 291.8   | 331.4   | 407.1   | 515.1   | 616.0   | 702.4   | 691.6   | 698.8   |
| 80°   | 104.5   | 104.5   | 133.3   | 172.9   | 230.5   | 288.2   | 342.2   | 399.8   | 446.7   | 457.5   | 468.3   |
| 82.5° | 61.2    | 64.8    | 86.5    | 126.1   | 165.7   | 205.3   | 263.0   | 302.6   | 345.8   | 349.4   | 356.6   |
| 85°   | 32.4    | 36.0    | 54.0    | 82.9    | 111.7   | 126.1   | 129.7   | 122.5   | 133.3   | 126.1   | 144.1   |
| 87.5° | 10.8    | 10.8    | 18.0    | 14.4    | 14.4    | 18.0    | 21.6    | 21.6    | 28.8    | 28.8    | 28.8    |
| 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: P531386

CATALOG NUMBER: GALN-SA6C-830-U-T2-GRSWH

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 5316.9  | 5316.9 | 5316.9 | 5316.9 | 5316.9 | 5316.9 | 5316.9 | 5316.9 | 5316.9 | 5316.9 | 5316.9 |
| 2.5°  | 5345.7  | 5345.7 | 5284.5 | 5169.2 | 5151.2 | 5104.3 | 5061.1 | 5057.5 | 5025.1 | 4996.3 | 4981.9 |
| 5°    | 5446.6  | 5334.9 | 5244.8 | 5140.4 | 5017.9 | 4960.3 | 4895.4 | 4823.4 | 4794.6 | 4823.4 | 4819.8 |
| 7.5°  | 5561.8  | 5468.2 | 5198.0 | 5003.5 | 4863.0 | 4805.4 | 4733.3 | 4657.7 | 4664.9 | 4664.9 | 4614.4 |
| 10°   | 5673.5  | 5547.4 | 5115.2 | 4866.6 | 4661.3 | 4618.0 | 4578.4 | 4607.2 | 4643.3 | 4650.5 | 4618.0 |
| 12.5° | 5860.8  | 5576.2 | 5075.5 | 4729.7 | 4600.0 | 4506.4 | 4531.6 | 4610.8 | 4686.5 | 4664.9 | 4690.1 |
| 15°   | 6001.3  | 5601.5 | 4895.4 | 4589.2 | 4427.1 | 4470.4 | 4560.4 | 4614.4 | 4740.5 | 4726.1 | 4751.3 |
| 17.5° | 6138.2  | 5615.9 | 4718.9 | 4401.9 | 4333.5 | 4452.3 | 4520.8 | 4675.7 | 4715.3 | 4801.8 | 4834.2 |
| 20°   | 6419.2  | 5644.7 | 4538.8 | 4286.6 | 4265.0 | 4401.9 | 4520.8 | 4592.8 | 4679.3 | 4754.9 | 4754.9 |
| 22.5° | 6563.2  | 5630.3 | 4419.9 | 4135.3 | 4203.8 | 4290.2 | 4398.3 | 4520.8 | 4520.8 | 4592.8 | 4596.4 |
| 25°   | 6743.4  | 5572.6 | 4232.6 | 4063.3 | 4113.7 | 4196.6 | 4319.1 | 4275.8 | 4322.7 | 4322.7 | 4380.3 |
| 27.5° | 6948.7  | 5450.2 | 4070.5 | 3933.6 | 4034.5 | 4124.5 | 4142.6 | 4113.7 | 4059.7 | 4052.5 | 4030.9 |
| 30°   | 7114.4  | 5298.9 | 3951.6 | 3890.4 | 3973.2 | 4023.7 | 3966.0 | 3904.8 | 3811.1 | 3803.9 | 3753.5 |
| 32.5° | 7341.3  | 5111.6 | 3803.9 | 3782.3 | 3876.0 | 3879.6 | 3861.6 | 3767.9 | 3631.0 | 3573.4 | 3515.8 |
| 35°   | 7723.2  | 5003.5 | 3692.3 | 3724.7 | 3753.5 | 3742.7 | 3710.3 | 3609.4 | 3472.5 | 3447.3 | 3425.7 |
| 37.5° | 8004.1  | 4924.2 | 3577.0 | 3616.6 | 3641.8 | 3656.3 | 3559.0 | 3447.3 | 3450.9 | 3400.5 | 3386.1 |
| 40°   | 8321.1  | 4873.8 | 3483.3 | 3501.4 | 3505.0 | 3551.8 | 3432.9 | 3378.9 | 3404.1 | 3371.7 | 3393.3 |
| 42.5° | 8728.2  | 4888.2 | 3386.1 | 3371.7 | 3440.1 | 3422.1 | 3364.5 | 3292.4 | 3306.8 | 3209.6 | 3224.0 |
| 45°   | 8944.3  | 4985.5 | 3328.5 | 3263.6 | 3339.3 | 3335.7 | 3260.0 | 3191.6 | 3105.1 | 2917.8 | 2925.0 |
| 47.5° | 9088.4  | 5010.7 | 3191.6 | 3148.3 | 3227.6 | 3274.4 | 3188.0 | 3029.5 | 2907.0 | 2773.7 | 2741.3 |
| 50°   | 9236.1  | 5057.5 | 3126.7 | 3036.7 | 3069.1 | 3180.8 | 3072.7 | 2921.4 | 2802.5 | 2683.7 | 2701.7 |
| 52.5° | 9365.8  | 5147.6 | 3000.6 | 2867.4 | 2925.0 | 3047.5 | 2989.8 | 2806.1 | 2676.4 | 2579.2 | 2550.4 |
| 55°   | 9942.1  | 5349.3 | 2788.1 | 2615.2 | 2752.1 | 2907.0 | 2874.6 | 2651.2 | 2510.7 | 2460.3 | 2453.1 |
| 56°   | 10032.2 | 5356.5 | 2676.4 | 2528.8 | 2654.8 | 2860.2 | 2820.5 | 2582.8 | 2456.7 | 2377.5 | 2381.1 |
| 57.5° | 10046.6 | 5270.0 | 2518.0 | 2449.5 | 2557.6 | 2791.7 | 2741.3 | 2528.8 | 2355.9 | 2283.8 | 2262.2 |
| 60°   | 8839.8  | 4113.7 | 2319.8 | 2276.6 | 2402.7 | 2582.8 | 2564.8 | 2381.1 | 2186.5 | 2103.7 | 2143.3 |
| 62.5° | 6026.5  | 3015.1 | 2164.9 | 2157.7 | 2222.6 | 2399.1 | 2352.2 | 2186.5 | 2024.4 | 1970.4 | 1945.2 |
| 65°   | 3508.6  | 2287.4 | 2013.6 | 1984.8 | 2038.9 | 2132.5 | 2164.9 | 1992.0 | 1822.7 | 1786.7 | 1775.9 |
| 67.5° | 2071.3  | 1891.2 | 1819.1 | 1772.3 | 1754.3 | 1811.9 | 1837.1 | 1736.3 | 1567.0 | 1516.5 | 1559.8 |
| 70°   | 1732.7  | 1682.2 | 1685.8 | 1606.6 | 1563.4 | 1523.7 | 1502.1 | 1412.1 | 1271.6 | 1206.7 | 1188.7 |
| 72.5° | 1494.9  | 1473.3 | 1458.9 | 1386.9 | 1347.2 | 1257.2 | 1163.5 | 1073.5 | 969.0  | 915.0  | 918.6  |
| 75°   | 1141.9  | 1134.7 | 1141.9 | 1105.9 | 1037.4 | 965.4  | 878.9  | 763.7  | 684.4  | 616.0  | 630.4  |
| 77.5° | 680.8   | 702.4  | 713.2  | 698.8  | 670.0  | 605.2  | 551.1  | 475.5  | 399.8  | 345.8  | 338.6  |
| 80°   | 468.3   | 486.3  | 504.3  | 486.3  | 457.5  | 410.7  | 353.0  | 295.4  | 241.3  | 212.5  | 205.3  |
| 82.5° | 356.6   | 374.6  | 385.4  | 367.4  | 331.4  | 281.0  | 241.3  | 201.7  | 158.5  | 129.7  | 122.5  |
| 85°   | 129.7   | 147.7  | 144.1  | 172.9  | 187.3  | 180.1  | 154.9  | 118.9  | 90.1   | 64.8   | 61.2   |
| 87.5° | 36.0    | 32.4   | 36.0   | 36.0   | 36.0   | 32.4   | 28.8   | 28.8   | 28.8   | 18.0   | 14.4   |
| 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)