

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: P455244

Luminaire Tested: **GALN-SA6B-830-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455244  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA6B-830-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22180 lumens  
Efficiency: N/A  
Efficacy: 91.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 243  
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

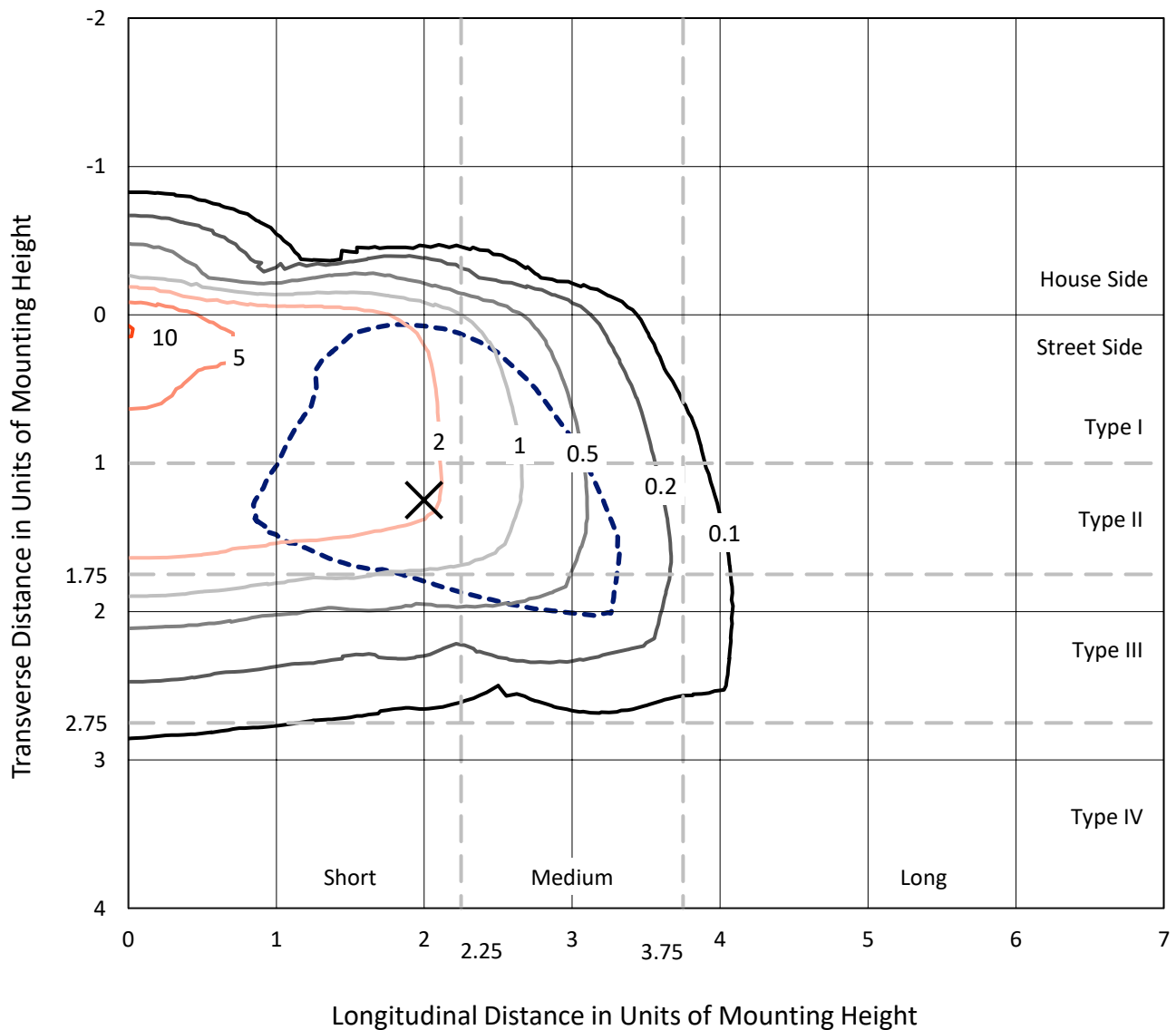


REPORT NUMBER: P455244

CATALOG NUMBER: GALN-SA6B-830-U-SL3-HSS

## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

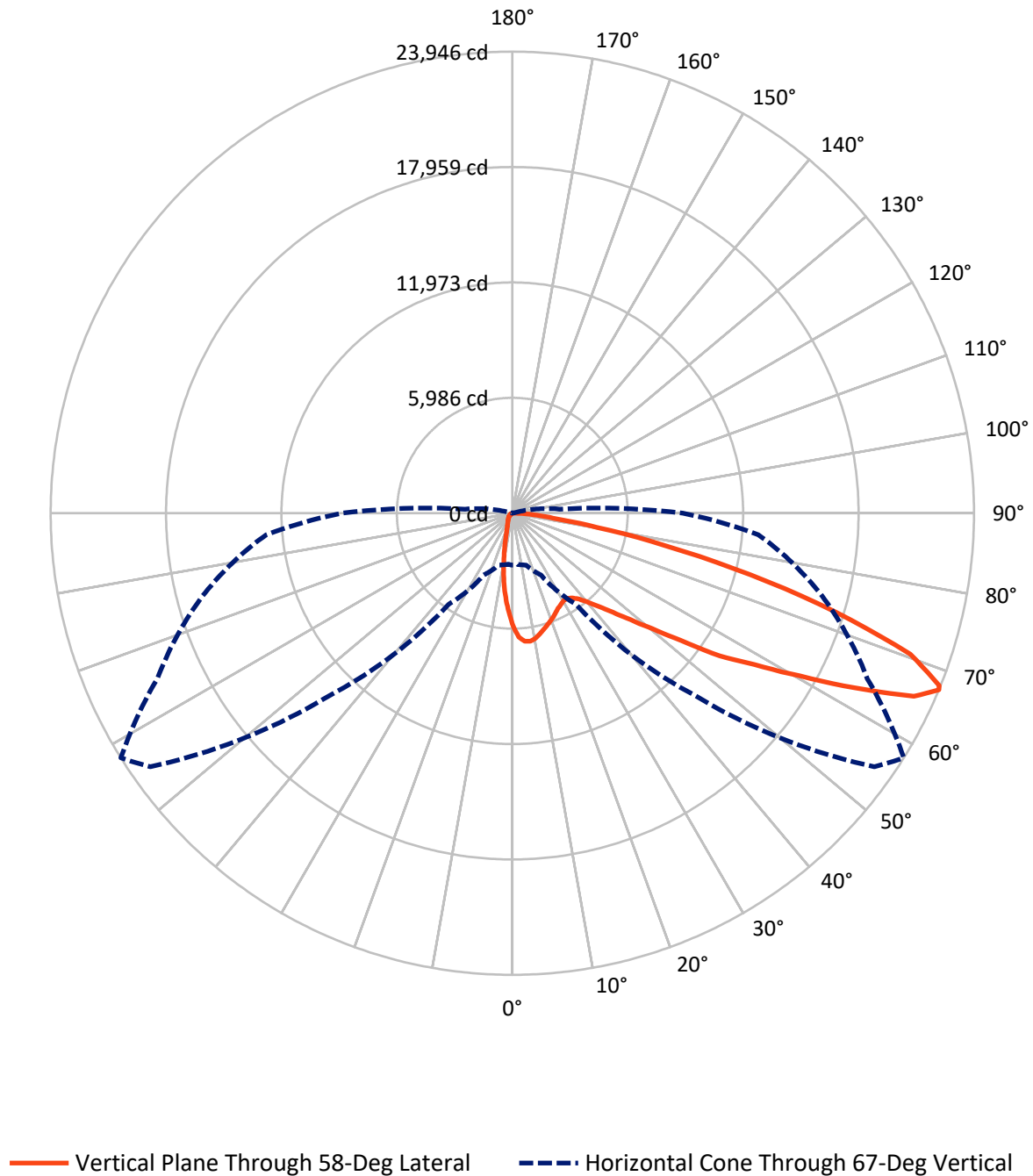


Based on 25 foot mounting height. Maximum calculated value = 10.4 fc  
 Type III - Short - N/A

REPORT NUMBER: P455244

CATALOG NUMBER: GALN-SA6B-830-U-SL3-HSS

## Luminous Intensity Polar Plot



REPORT NUMBER: P455244

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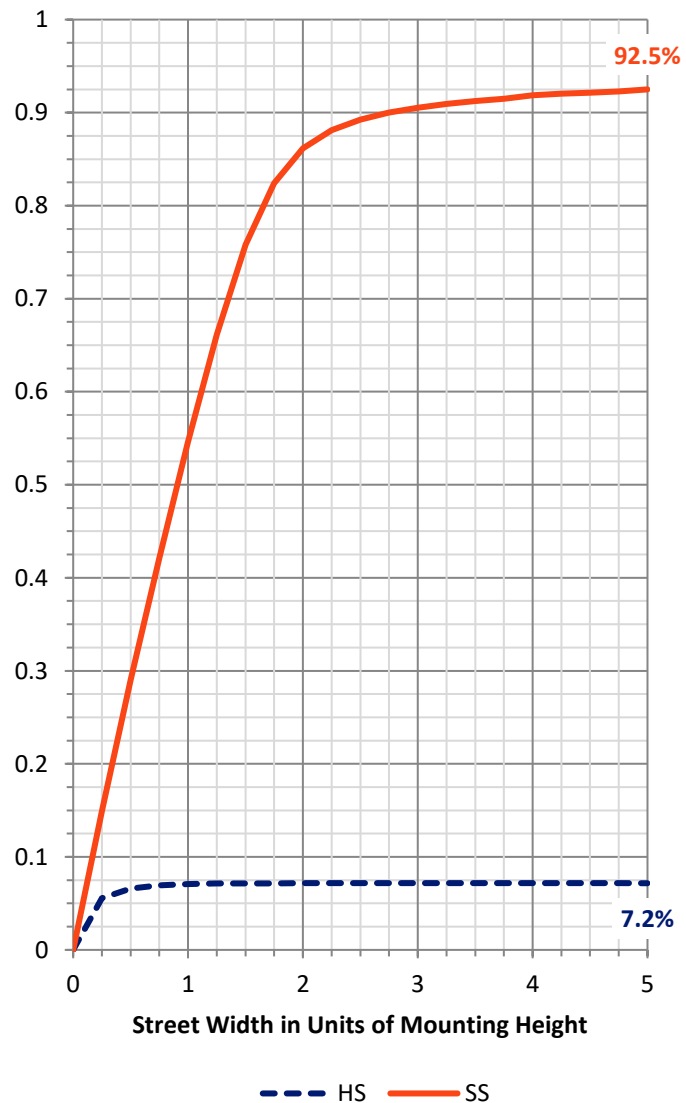
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1600.7   | 0.0    | 1600.7  |
|                    | % Fixture | 7.2      | 0.0    | 7.2     |
| <b>Street Side</b> | Lumens    | 20579.4  | 0.0    | 20579.4 |
|                    | % Fixture | 92.8     | 0.0    | 92.8    |
| <b>Total</b>       | Lumens    | 22180.0  | 0.0    | 22180.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 477.1   | 2.2       |
| 10°-20°   | 1030.5  | 4.6       |
| 20°-30°   | 1396.4  | 6.3       |
| 30°-40°   | 1936.7  | 8.7       |
| 40°-50°   | 3088.8  | 13.9      |
| 50°-60°   | 5339.2  | 24.1      |
| 60°-70°   | 6099.0  | 27.5      |
| 70°-80°   | 2542.7  | 11.5      |
| 80°-90°   | 269.6   | 1.2       |
| 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°    | 22180.0 | 100.0     |
| 0°-180°   | 22180.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P455244

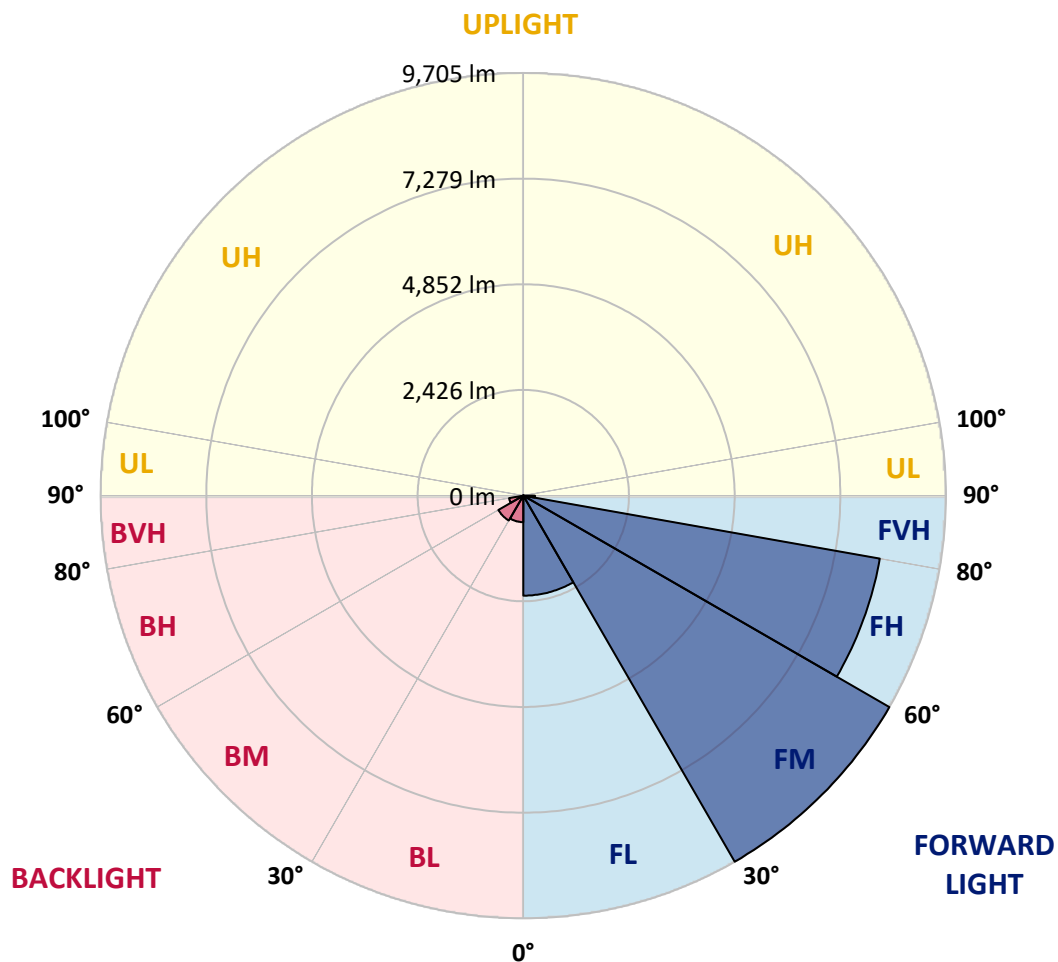
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|--------|-----------|-------------------------|------|----------|
|      |             |        |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2296.2 | 10.4      |                         |      |          |
| FM   | (30°-60°)   | 9704.7 | 43.8      |                         |      |          |
| FH   | (60°-80°)   | 8310.9 | 37.5      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 267.7  | 1.2       |                         |      | G3/500   |
| BL   | (0°-30°)    | 607.8  | 2.7       | B2/1000                 |      |          |
| BM   | (30°-60°)   | 660.0  | 3.0       | B1/1000                 |      |          |
| BH   | (60°-80°)   | 330.9  | 1.5       | B1/500                  |      | G1/500   |
| BVH  | (80°-90°)   | 2.0    | 0.0       |                         |      | G0/10    |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |          |

**BUG Rating: B2-U0-G4**

Type III Short



REPORT NUMBER: P455244

CATALOG NUMBER: GALN-SA6B-830-U-SL3-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°     | 35°     | 45°     | 55°     | 58°     | 65°     | 75°     | 85°     |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5879.7 | 5879.7 | 5879.7 | 5879.7  | 5879.7  | 5879.7  | 5879.7  | 5879.7  | 5879.7  | 5879.7  | 5879.7  |
| 2.5°  | 6823.8 | 6834.2 | 6795.7 | 6764.6  | 6684.5  | 6598.6  | 6484.4  | 6423.7  | 6319.9  | 6140.6  | 5942.0  |
| 5°    | 6983.9 | 6997.3 | 6991.3 | 6983.9  | 6952.8  | 6869.8  | 6724.5  | 6671.2  | 6518.5  | 6226.5  | 5867.9  |
| 7.5°  | 6628.2 | 6677.1 | 6683.0 | 6740.8  | 6795.7  | 6803.1  | 6748.3  | 6708.2  | 6567.4  | 6225.1  | 5735.9  |
| 10°   | 6156.9 | 6189.5 | 6236.9 | 6303.6  | 6435.5  | 6545.2  | 6598.6  | 6592.6  | 6511.1  | 6179.1  | 5581.8  |
| 12.5° | 5681.1 | 5698.9 | 5771.5 | 5885.6  | 6047.2  | 6233.9  | 6376.2  | 6404.4  | 6405.9  | 6124.3  | 5452.9  |
| 15°   | 5272.0 | 5264.6 | 5320.9 | 5452.9  | 5679.6  | 5913.8  | 6168.7  | 6213.2  | 6284.3  | 6070.9  | 5332.8  |
| 17.5° | 4922.2 | 4960.8 | 4969.7 | 5114.9  | 5323.9  | 5627.7  | 5952.3  | 6030.9  | 6173.2  | 6025.0  | 5233.5  |
| 20°   | 4705.8 | 4726.6 | 4745.9 | 4827.4  | 5015.6  | 5335.8  | 5749.3  | 5857.5  | 6069.4  | 5983.5  | 5122.3  |
| 22.5° | 4642.1 | 4655.5 | 4639.1 | 4664.3  | 4797.7  | 5082.3  | 5528.4  | 5672.2  | 5970.1  | 5944.9  | 5031.9  |
| 25°   | 4691.0 | 4704.4 | 4665.8 | 4636.2  | 4682.1  | 4876.3  | 5315.0  | 5489.9  | 5890.1  | 5937.5  | 4963.7  |
| 27.5° | 4809.6 | 4834.8 | 4781.4 | 4728.1  | 4701.4  | 4765.1  | 5147.5  | 5350.6  | 5835.2  | 5973.1  | 4932.6  |
| 30°   | 4994.9 | 5009.7 | 4969.7 | 4904.5  | 4843.7  | 4780.0  | 5060.1  | 5254.2  | 5820.4  | 6056.1  | 4929.7  |
| 32.5° | 5196.4 | 5227.6 | 5205.3 | 5162.4  | 5083.8  | 4932.6  | 5085.3  | 5257.2  | 5856.0  | 6176.1  | 4966.7  |
| 35°   | 5445.4 | 5481.0 | 5501.8 | 5492.9  | 5392.1  | 5203.9  | 5245.4  | 5390.6  | 5950.9  | 6397.0  | 5067.5  |
| 37.5° | 5690.0 | 5721.1 | 5838.2 | 5878.2  | 5789.3  | 5611.4  | 5556.6  | 5652.9  | 6159.8  | 6686.0  | 5249.8  |
| 40°   | 5970.1 | 6011.6 | 6176.1 | 6328.8  | 6285.8  | 6099.1  | 5998.3  | 6078.3  | 6480.0  | 7121.8  | 5595.1  |
| 42.5° | 6238.4 | 6312.5 | 6563.0 | 6832.7  | 6872.8  | 6663.8  | 6597.1  | 6623.8  | 6954.3  | 7748.7  | 6076.8  |
| 45°   | 6619.3 | 6689.0 | 7012.1 | 7378.2  | 7566.4  | 7403.4  | 7335.2  | 7330.7  | 7604.9  | 8630.6  | 6857.9  |
| 47.5° | 7169.2 | 7231.4 | 7612.4 | 7974.0  | 8309.0  | 8331.2  | 8202.3  | 8246.7  | 8423.1  | 9662.2  | 7815.4  |
| 50°   | 7843.6 | 7990.3 | 8240.8 | 8617.3  | 9064.9  | 9426.5  | 9466.5  | 9407.2  | 9558.4  | 10856.8 | 8965.6  |
| 52.5° | 8823.3 | 8879.6 | 9109.3 | 9419.1  | 9943.8  | 10557.4 | 11033.2 | 10951.7 | 10904.2 | 11995.1 | 10127.6 |
| 55°   | 9554.0 | 9629.6 | 9986.8 | 10412.1 | 11181.4 | 11990.6 | 13022.2 | 13050.4 | 12451.6 | 13088.9 | 11264.4 |
| 57.5° | 9333.1 | 9448.7 | 9989.7 | 10844.9 | 12536.1 | 14015.3 | 14783.0 | 14802.3 | 13883.4 | 14151.6 | 12547.9 |
| 60°   | 8199.3 | 8254.1 | 9029.3 | 10170.6 | 12651.7 | 16208.9 | 17280.5 | 17124.8 | 15340.3 | 15340.3 | 13681.8 |
| 62.5° | 5814.5 | 5900.5 | 6528.9 | 8208.2  | 11425.9 | 16970.7 | 20271.5 | 19949.8 | 17347.2 | 16477.1 | 14357.6 |
| 65°   | 3715.8 | 3632.8 | 4049.3 | 5181.6  | 8512.0  | 15845.7 | 22875.6 | 22894.9 | 19235.4 | 16932.2 | 13988.6 |
| 67°   | 2691.6 | 2659.0 | 2779.0 | 3542.4  | 5771.5  | 13320.1 | 22930.4 | 23945.7 | 20320.4 | 16644.6 | 12808.8 |
| 67.5° | 2461.9 | 2487.1 | 2574.5 | 3195.5  | 5243.9  | 12121.1 | 22681.4 | 23883.5 | 20564.9 | 16471.2 | 12381.9 |
| 70°   | 1866.0 | 1823.1 | 1917.9 | 2260.3  | 3143.7  | 7646.4  | 19511.1 | 21904.8 | 20261.1 | 14750.4 | 9893.4  |
| 72.5° | 1372.5 | 1368.0 | 1499.9 | 1848.2  | 2420.4  | 4073.0  | 14646.7 | 17563.6 | 16552.7 | 11231.8 | 6229.5  |
| 75°   | 926.3  | 967.8  | 1178.3 | 1544.4  | 2193.6  | 2641.2  | 9985.3  | 12742.1 | 11491.2 | 6377.7  | 2546.3  |
| 77.5° | 527.6  | 530.6  | 758.9  | 1240.6  | 1969.8  | 2125.4  | 5916.8  | 8117.8  | 6082.8  | 2121.0  | 755.9   |
| 80°   | 228.3  | 250.5  | 376.5  | 901.2   | 1633.3  | 1882.3  | 3392.7  | 4461.3  | 2460.4  | 449.1   | 244.6   |
| 82.5° | 84.5   | 99.3   | 166.0  | 554.3   | 1191.7  | 1550.3  | 2049.8  | 2129.9  | 834.5   | 158.6   | 152.7   |
| 85°   | 0.0    | 3.0    | 60.8   | 259.4   | 621.0   | 692.2   | 1369.5  | 1262.8  | 369.1   | 75.6    | 99.3    |
| 87.5° | 0.0    | 0.0    | 0.0    | 26.7    | 81.5    | 257.9   | 425.4   | 474.3   | 88.9    | 26.7    | 23.7    |
| 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: P455244

CATALOG NUMBER: GALN-SA6B-830-U-SL3-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 5879.7  | 5879.7 | 5879.7 | 5879.7 | 5879.7 | 5879.7 | 5879.7 | 5879.7 | 5879.7 | 5879.7 | 5879.7 |
| 2.5°  | 5835.2  | 5738.9 | 5497.3 | 5255.7 | 5076.4 | 4926.7 | 4701.4 | 4578.4 | 4513.2 | 4416.8 | 4422.8 |
| 5°    | 5688.5  | 5492.9 | 5067.5 | 4627.3 | 4271.6 | 3924.8 | 3509.7 | 3342.3 | 3201.5 | 3121.4 | 3068.1 |
| 7.5°  | 5470.6  | 5181.6 | 4551.7 | 3964.8 | 3417.9 | 2811.7 | 2356.6 | 2052.8 | 1848.2 | 1772.7 | 1700.0 |
| 10°   | 5232.0  | 4848.1 | 4028.5 | 3214.8 | 2455.9 | 1830.5 | 1445.1 | 1166.5 | 1067.2 | 975.3  | 984.2  |
| 12.5° | 5011.2  | 4544.3 | 3548.3 | 2537.5 | 1720.8 | 1163.5 | 907.1  | 793.0  | 760.3  | 750.0  | 750.0  |
| 15°   | 4830.3  | 4253.8 | 3032.5 | 1907.5 | 1179.8 | 835.9  | 726.3  | 695.1  | 683.3  | 680.3  | 680.3  |
| 17.5° | 4637.7  | 3978.1 | 2567.1 | 1409.5 | 858.2  | 699.6  | 662.5  | 641.8  | 637.3  | 634.4  | 634.4  |
| 20°   | 4465.7  | 3700.9 | 2125.4 | 1049.4 | 693.6  | 629.9  | 606.2  | 592.9  | 588.4  | 585.5  | 586.9  |
| 22.5° | 4302.7  | 3454.9 | 1710.4 | 793.0  | 610.6  | 573.6  | 549.9  | 536.5  | 527.6  | 520.2  | 521.7  |
| 25°   | 4157.4  | 3217.8 | 1375.4 | 649.2  | 549.9  | 517.3  | 493.6  | 474.3  | 455.0  | 446.1  | 444.6  |
| 27.5° | 4055.2  | 3010.3 | 1071.6 | 555.8  | 495.0  | 459.5  | 429.8  | 406.1  | 380.9  | 367.6  | 364.6  |
| 30°   | 3970.7  | 2799.8 | 847.8  | 490.6  | 440.2  | 406.1  | 369.1  | 335.0  | 308.3  | 294.9  | 289.0  |
| 32.5° | 3915.9  | 2599.7 | 668.5  | 437.2  | 394.3  | 352.8  | 311.3  | 277.2  | 247.5  | 234.2  | 231.2  |
| 35°   | 3907.0  | 2432.2 | 546.9  | 392.8  | 352.8  | 308.3  | 265.3  | 228.3  | 203.1  | 189.7  | 186.8  |
| 37.5° | 3970.7  | 2303.3 | 458.0  | 357.2  | 318.7  | 269.8  | 222.3  | 188.2  | 166.0  | 155.6  | 154.1  |
| 40°   | 4141.1  | 2221.8 | 397.2  | 327.6  | 287.5  | 234.2  | 189.7  | 160.1  | 137.8  | 127.5  | 127.5  |
| 42.5° | 4465.7  | 2224.7 | 357.2  | 299.4  | 256.4  | 200.1  | 161.6  | 133.4  | 114.1  | 105.2  | 102.3  |
| 45°   | 4972.6  | 2325.5 | 323.1  | 271.2  | 226.8  | 173.4  | 137.8  | 109.7  | 90.4   | 83.0   | 83.0   |
| 47.5° | 5651.5  | 2525.6 | 293.5  | 243.1  | 200.1  | 148.2  | 117.1  | 88.9   | 72.6   | 65.2   | 65.2   |
| 50°   | 6539.3  | 2847.2 | 268.3  | 219.4  | 177.9  | 127.5  | 94.9   | 72.6   | 56.3   | 50.4   | 48.9   |
| 52.5° | 7467.1  | 3244.4 | 238.6  | 198.6  | 152.7  | 108.2  | 77.1   | 56.3   | 43.0   | 38.5   | 37.1   |
| 55°   | 8491.3  | 3632.8 | 210.5  | 177.9  | 124.5  | 90.4   | 60.8   | 44.5   | 31.1   | 26.7   | 26.7   |
| 57.5° | 9524.3  | 4013.7 | 176.4  | 148.2  | 97.8   | 66.7   | 47.4   | 32.6   | 20.8   | 16.3   | 16.3   |
| 60°   | 10398.8 | 4136.7 | 149.7  | 120.1  | 74.1   | 47.4   | 34.1   | 20.8   | 11.9   | 7.4    | 7.4    |
| 62.5° | 10518.9 | 3721.7 | 126.0  | 91.9   | 53.4   | 32.6   | 17.8   | 11.9   | 4.4    | 3.0    | 3.0    |
| 65°   | 9866.7  | 3023.6 | 105.2  | 69.7   | 35.6   | 16.3   | 7.4    | 4.4    | 1.5    | 0.0    | 0.0    |
| 67°   | 8841.1  | 2451.5 | 86.0   | 51.9   | 25.2   | 10.4   | 4.4    | 1.5    | 0.0    | 0.0    | 0.0    |
| 67.5° | 8578.7  | 2337.4 | 83.0   | 48.9   | 22.2   | 8.9    | 3.0    | 1.5    | 0.0    | 0.0    | 0.0    |
| 70°   | 6732.0  | 1750.4 | 59.3   | 29.6   | 13.3   | 5.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 4184.1  | 990.1  | 43.0   | 17.8   | 8.9    | 3.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 1581.5  | 346.8  | 29.6   | 11.9   | 5.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 492.1   | 131.9  | 17.8   | 8.9    | 3.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 166.0   | 50.4   | 11.9   | 3.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 102.3   | 20.8   | 7.4    | 1.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 63.7    | 8.9    | 3.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 11.9    | 3.0    | 1.5    | 0.0    | 0.0    | 0.0    | 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)