

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: P941787

Luminaire Tested: **GALN-SB5C-727-U-T3**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P941787  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5C-727-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 35113 lumens  
Efficiency: N/A  
Efficacy: 140.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 249.5  
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

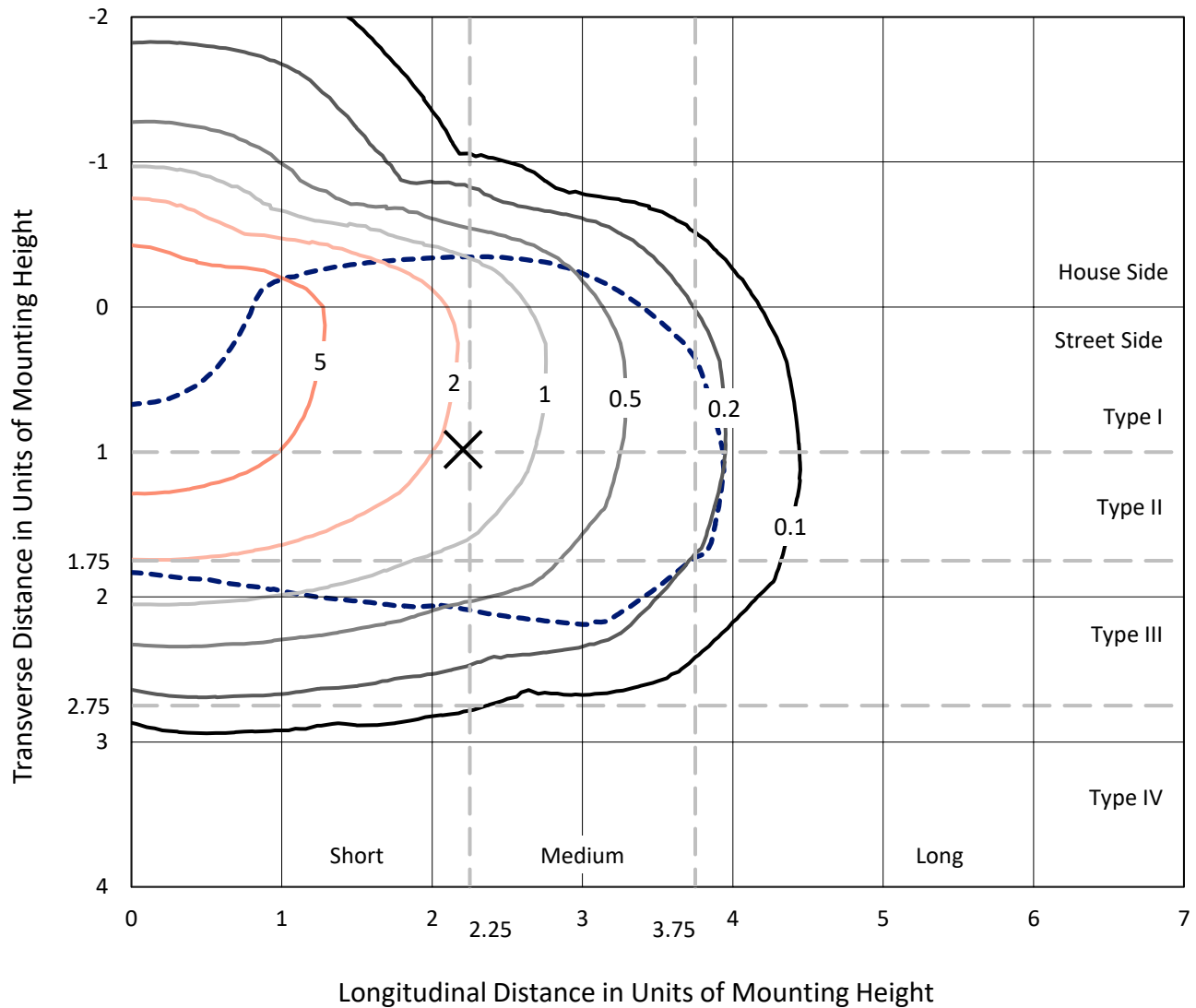


REPORT NUMBER: P941787

CATALOG NUMBER: GALN-SB5C-727-U-T3

## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd

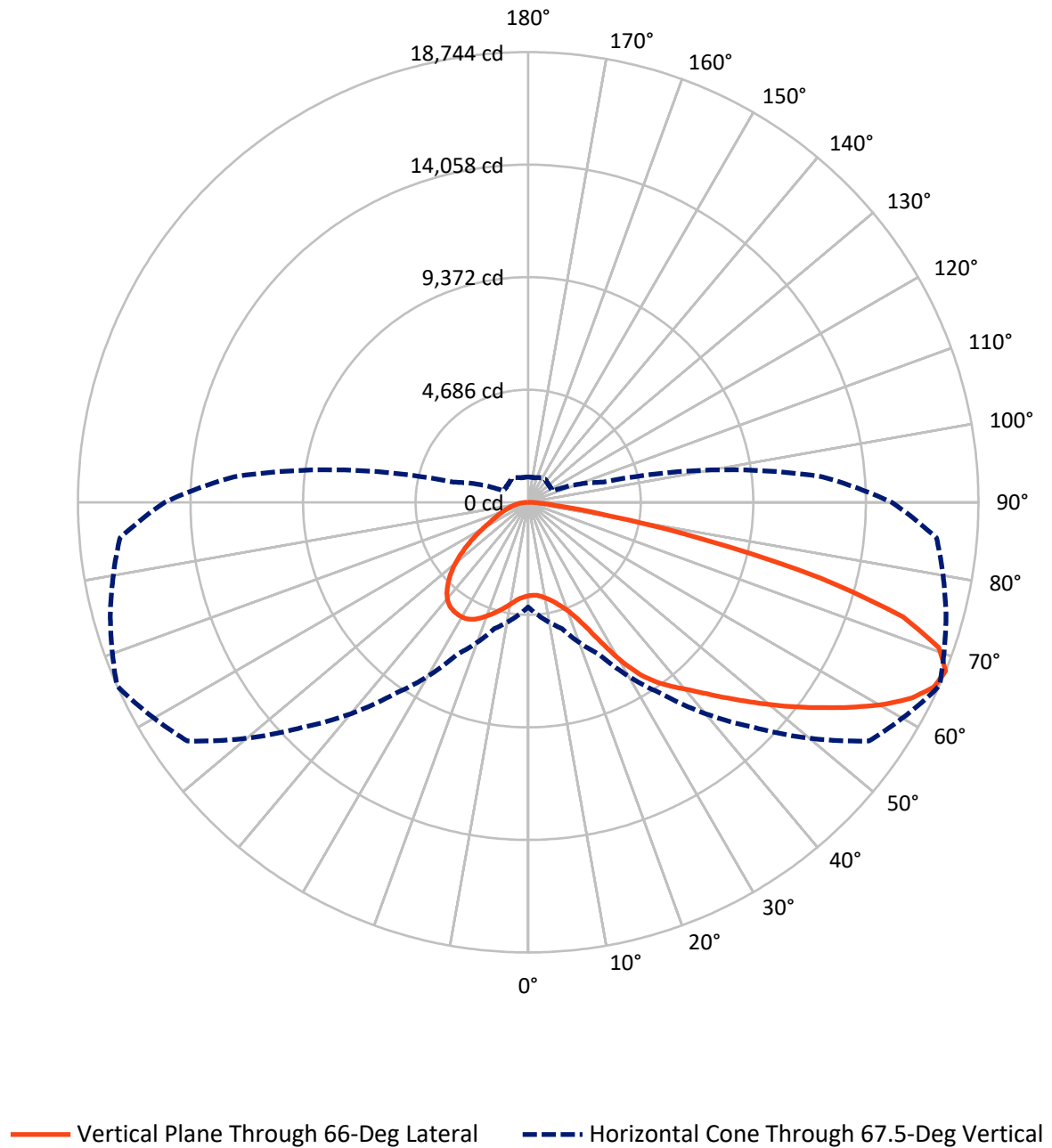


Based on 25 foot mounting height. Maximum calculated value = 8.8 fc  
Type III - Short - N/A

REPORT NUMBER: P941787

CATALOG NUMBER: GALN-SB5C-727-U-T3

## Luminous Intensity Polar Plot



REPORT NUMBER: P941787

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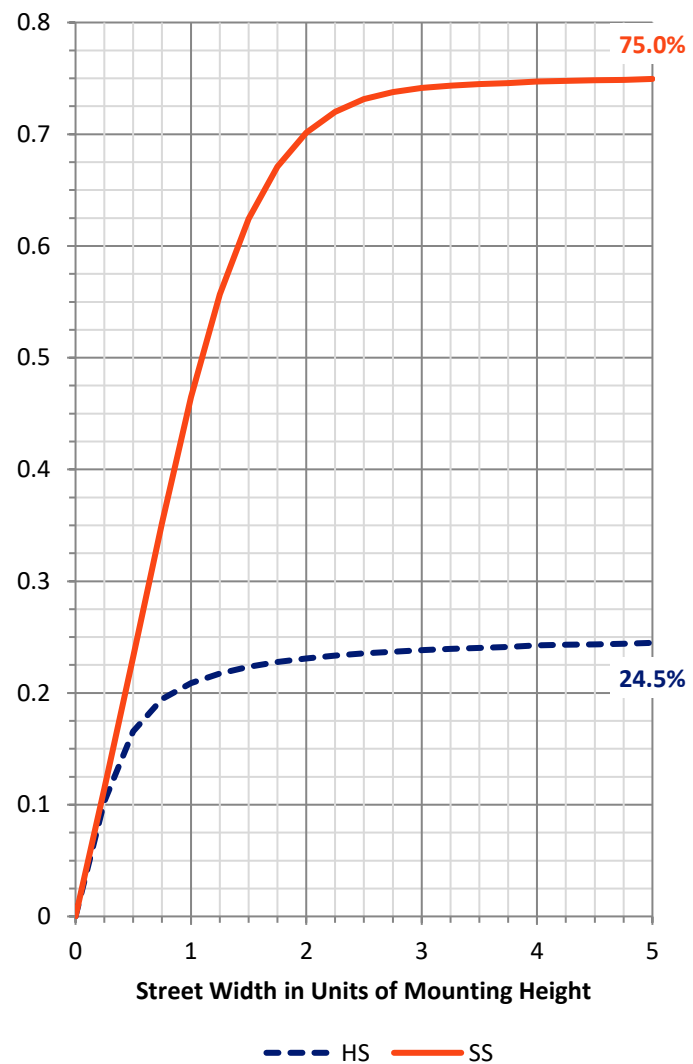
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8730.8   | 0.0    | 8730.8  |
|                    | % Fixture | 24.9     | 0.0    | 24.9    |
| <b>Street Side</b> | Lumens    | 26382.3  | 0.0    | 26382.3 |
|                    | % Fixture | 75.1     | 0.0    | 75.1    |
| <b>Total</b>       | Lumens    | 35113.0  | 0.0    | 35113.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 386.1   | 1.1       |
| 10°-20°   | 1275.7  | 3.6       |
| 20°-30°   | 2458.8  | 7.0       |
| 30°-40°   | 4311.3  | 12.3      |
| 40°-50°   | 6409.4  | 18.3      |
| 50°-60°   | 8124.6  | 23.1      |
| 60°-70°   | 7949.7  | 22.6      |
| 70°-80°   | 3792.1  | 10.8      |
| 80°-90°   | 405.3   | 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°    | 35113.0 | 100.0     |
| 0°-180°   | 35113.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P941787

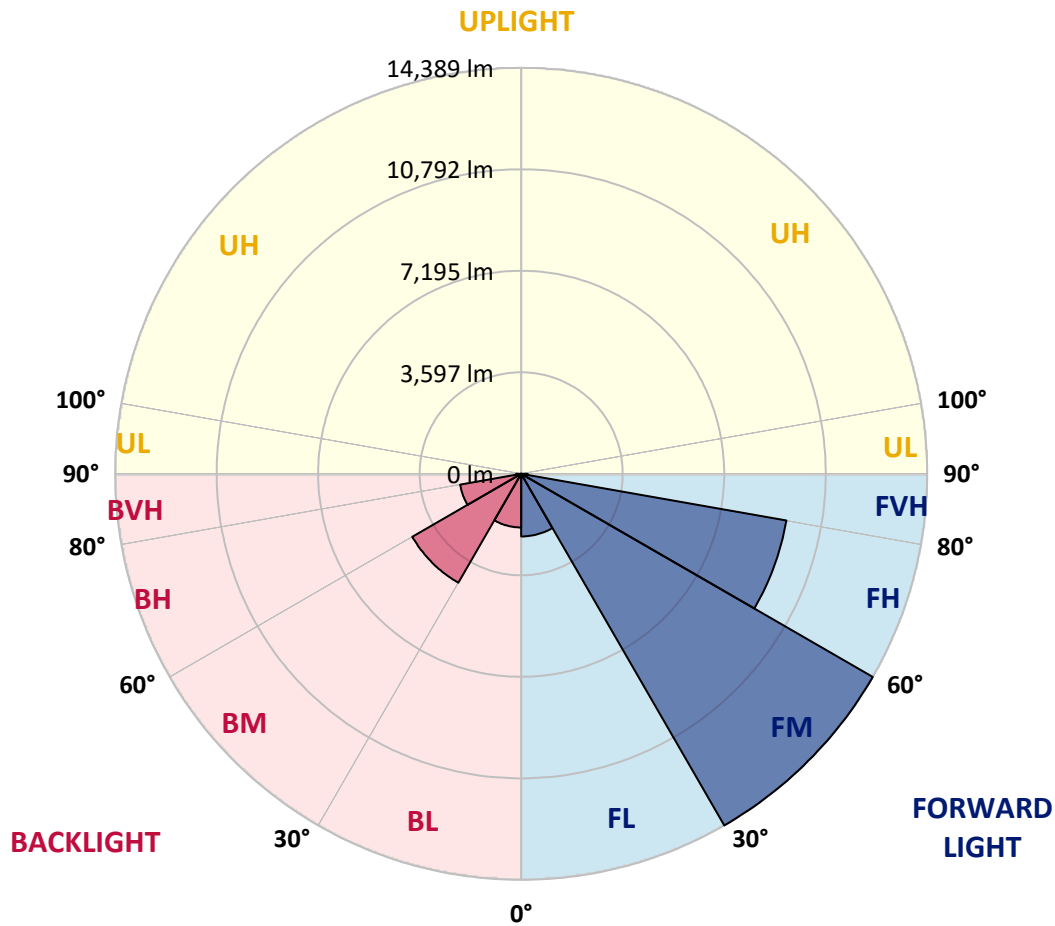
CATALOG NUMBER: GALN-SB5C-727-U-T3

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2218.8  | 6.3       |                         |      |          |
| FM   | (30°-60°)   | 14389.0 | 41.0      |                         |      |          |
| FH   | (60°-80°)   | 9544.7  | 27.2      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 229.8   | 0.7       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1901.9  | 5.4       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 4456.3  | 12.7      | B3/5000                 |      |          |
| BH   | (60°-80°)   | 2197.1  | 6.3       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 175.5   | 0.5       |                         |      | G2/225   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type III Short



REPORT NUMBER: P941787

CATALOG NUMBER: GALN-SB5C-727-U-T3

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 66°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3894.5  | 3894.5  | 3894.5  | 3894.5  | 3894.5  | 3894.5  | 3894.5  | 3894.5  | 3894.5  | 3894.5  | 3894.5  |
| 2.5°  | 3853.9  | 3876.0  | 3870.5  | 3861.3  | 3859.4  | 3863.1  | 3868.7  | 3874.2  | 3872.4  | 3881.6  | 3896.3  |
| 5°    | 3842.8  | 3865.0  | 3863.1  | 3863.1  | 3870.5  | 3885.3  | 3894.5  | 3903.7  | 3894.5  | 3905.6  | 3925.9  |
| 7.5°  | 3850.2  | 3866.8  | 3874.2  | 3881.6  | 3900.0  | 3927.7  | 3949.8  | 3970.1  | 3959.1  | 3972.0  | 3997.8  |
| 10°   | 3944.3  | 3957.2  | 3964.6  | 3964.6  | 3977.5  | 4008.9  | 4031.0  | 4067.9  | 4058.7  | 4079.0  | 4112.2  |
| 12.5° | 4115.9  | 4128.8  | 4128.8  | 4121.4  | 4130.6  | 4150.9  | 4158.3  | 4198.9  | 4182.3  | 4215.5  | 4248.7  |
| 15°   | 4326.2  | 4352.0  | 4331.7  | 4318.8  | 4322.5  | 4342.8  | 4341.0  | 4372.3  | 4355.7  | 4383.4  | 4412.9  |
| 17.5° | 4558.6  | 4591.9  | 4558.6  | 4556.8  | 4549.4  | 4571.6  | 4573.4  | 4601.1  | 4571.6  | 4591.9  | 4612.1  |
| 20°   | 4833.5  | 4879.7  | 4852.0  | 4861.2  | 4844.6  | 4853.8  | 4863.0  | 4903.6  | 4857.5  | 4872.3  | 4866.7  |
| 22.5° | 5220.9  | 5276.3  | 5246.8  | 5281.8  | 5270.8  | 5263.4  | 5261.5  | 5333.5  | 5261.5  | 5267.1  | 5213.6  |
| 25°   | 5785.5  | 5851.9  | 5800.2  | 5848.2  | 5848.2  | 5872.2  | 5899.9  | 5992.1  | 5872.2  | 5837.1  | 5698.8  |
| 27.5° | 6619.4  | 6685.8  | 6584.3  | 6613.8  | 6604.6  | 6663.6  | 6634.1  | 6862.9  | 6733.7  | 6676.5  | 6398.0  |
| 30°   | 7623.0  | 7741.0  | 7549.2  | 7541.8  | 7532.6  | 7626.6  | 7669.1  | 7820.4  | 7689.4  | 7632.2  | 7296.4  |
| 32.5° | 8707.7  | 8831.3  | 8602.6  | 8536.2  | 8501.1  | 8558.3  | 8523.2  | 8645.0  | 8554.6  | 8466.1  | 8051.0  |
| 35°   | 9855.2  | 9977.0  | 9759.3  | 9630.2  | 9490.0  | 9370.0  | 9244.6  | 9275.9  | 9191.1  | 9056.4  | 8626.6  |
| 37.5° | 10940.0 | 11163.2 | 10932.6 | 10794.3 | 10536.0 | 10301.7 | 9951.2  | 9805.4  | 9726.1  | 9602.5  | 9168.9  |
| 40°   | 12045.1 | 12172.4 | 11997.1 | 11879.0 | 11598.6 | 11231.5 | 10670.7 | 10362.6 | 10255.6 | 10135.7 | 9768.5  |
| 42.5° | 12858.7 | 12980.4 | 12886.3 | 12805.2 | 12585.6 | 12159.5 | 11434.4 | 11048.9 | 10893.9 | 10759.2 | 10447.4 |
| 45°   | 13504.4 | 13594.8 | 13535.7 | 13565.2 | 13471.2 | 13057.9 | 12225.9 | 11785.0 | 11624.5 | 11460.3 | 11214.9 |
| 47.5° | 13764.5 | 13860.4 | 13954.5 | 14129.8 | 14290.3 | 13985.9 | 13076.4 | 12581.9 | 12412.2 | 12244.3 | 12002.6 |
| 50°   | 13735.0 | 13832.7 | 14105.8 | 14478.4 | 14976.6 | 14875.1 | 13973.0 | 13430.6 | 13273.8 | 13081.9 | 12858.7 |
| 52.5° | 13498.8 | 13609.5 | 13960.0 | 14579.9 | 15373.2 | 15541.1 | 14886.2 | 14306.9 | 14159.3 | 13930.5 | 13707.3 |
| 55°   | 12879.0 | 12945.4 | 13471.2 | 14349.3 | 15467.3 | 16006.0 | 15780.9 | 15240.4 | 15092.8 | 14773.6 | 14530.1 |
| 57.5° | 11729.6 | 11825.5 | 12591.2 | 13727.6 | 15231.1 | 16321.5 | 16566.8 | 16221.8 | 16079.8 | 15620.4 | 15365.8 |
| 60°   | 10229.7 | 10382.9 | 11259.2 | 12683.4 | 14629.7 | 16319.6 | 17280.8 | 17186.7 | 17068.6 | 16454.3 | 16188.6 |
| 62.5° | 8532.5  | 8709.6  | 9552.7  | 11207.5 | 13578.2 | 15856.6 | 17727.2 | 17994.7 | 17933.9 | 17223.6 | 16884.1 |
| 65°   | 6552.9  | 6674.7  | 7514.1  | 9298.1  | 11941.8 | 14862.2 | 17778.9 | 18546.4 | 18557.4 | 17808.4 | 17247.6 |
| 67.5° | 4363.1  | 4713.6  | 5442.3  | 6977.3  | 9750.1  | 13236.9 | 17325.1 | 18636.8 | 18743.8 | 18009.5 | 17064.9 |
| 70°   | 2129.0  | 2590.2  | 3304.1  | 4534.7  | 6977.3  | 10744.5 | 16138.8 | 17895.1 | 18133.1 | 17422.8 | 15976.5 |
| 72.5° | 883.7   | 1033.1  | 1422.4  | 2237.8  | 4005.2  | 7250.3  | 13755.3 | 15884.2 | 16325.2 | 15437.8 | 13432.4 |
| 75°   | 595.9   | 645.7   | 813.6   | 1147.5  | 1824.6  | 3575.3  | 9919.8  | 11844.0 | 12554.3 | 11659.5 | 9530.5  |
| 77.5° | 459.4   | 490.7   | 592.2   | 802.5   | 1084.8  | 1352.3  | 5309.5  | 7137.8  | 7504.9  | 6947.7  | 4959.0  |
| 80°   | 361.6   | 385.6   | 442.8   | 584.8   | 769.3   | 723.2   | 1809.8  | 3234.0  | 3446.2  | 2890.9  | 1594.0  |
| 82.5° | 313.6   | 322.9   | 317.3   | 396.6   | 511.0   | 422.5   | 594.0   | 1193.6  | 1317.2  | 955.6   | 520.3   |
| 85°   | 226.9   | 252.7   | 263.8   | 245.4   | 271.2   | 214.0   | 243.5   | 422.5   | 464.9   | 415.1   | 293.3   |
| 87.5° | 92.2    | 136.5   | 167.9   | 158.7   | 99.6    | 60.9    | 75.6    | 123.6   | 142.1   | 155.0   | 95.9    |
| 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: P941787

CATALOG NUMBER: GALN-SB5C-727-U-T3

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3894.5  | 3894.5  | 3894.5 | 3894.5 | 3894.5 | 3894.5 | 3894.5 | 3894.5 | 3894.5 | 3894.5 | 3894.5 |
| 2.5°  | 3898.2  | 3911.1  | 3920.3 | 3931.4 | 3938.8 | 3949.8 | 3972.0 | 3984.9 | 3986.7 | 3996.0 | 3994.1 |
| 5°    | 3933.2  | 3951.7  | 3972.0 | 4001.5 | 4034.7 | 4062.4 | 4104.8 | 4134.3 | 4145.4 | 4154.6 | 4152.8 |
| 7.5°  | 4008.9  | 4034.7  | 4071.6 | 4123.3 | 4171.2 | 4208.1 | 4259.8 | 4294.8 | 4329.9 | 4342.8 | 4344.6 |
| 10°   | 4121.4  | 4158.3  | 4211.8 | 4281.9 | 4333.6 | 4381.5 | 4435.0 | 4464.6 | 4499.6 | 4514.4 | 4521.7 |
| 12.5° | 4261.6  | 4300.4  | 4370.5 | 4468.2 | 4516.2 | 4549.4 | 4567.9 | 4560.5 | 4567.9 | 4580.8 | 4584.5 |
| 15°   | 4422.1  | 4464.6  | 4543.9 | 4649.0 | 4682.3 | 4652.7 | 4612.1 | 4575.2 | 4569.7 | 4573.4 | 4586.3 |
| 17.5° | 4612.1  | 4643.5  | 4735.8 | 4824.3 | 4800.3 | 4678.6 | 4590.0 | 4531.0 | 4501.5 | 4492.2 | 4505.1 |
| 20°   | 4877.8  | 4877.8  | 4953.4 | 5008.8 | 4848.3 | 4641.7 | 4503.3 | 4407.4 | 4346.5 | 4320.7 | 4315.1 |
| 22.5° | 5200.7  | 5171.1  | 5219.1 | 5180.4 | 4839.1 | 4538.4 | 4346.5 | 4180.4 | 4088.2 | 4051.3 | 4045.8 |
| 25°   | 5610.2  | 5575.2  | 5562.2 | 5322.4 | 4772.6 | 4374.2 | 4062.4 | 3861.3 | 3780.1 | 3759.8 | 3763.5 |
| 27.5° | 6228.2  | 6139.7  | 5971.8 | 5399.9 | 4650.9 | 4115.9 | 3730.3 | 3544.0 | 3497.9 | 3499.7 | 3505.2 |
| 30°   | 7051.0  | 6873.9  | 6462.5 | 5412.8 | 4451.6 | 3750.6 | 3390.8 | 3258.0 | 3235.9 | 3245.1 | 3276.5 |
| 32.5° | 7813.0  | 7645.1  | 6964.3 | 5353.8 | 4145.4 | 3392.7 | 3086.4 | 2997.9 | 2964.7 | 2975.8 | 2990.5 |
| 35°   | 8410.7  | 8364.6  | 7429.2 | 5270.8 | 3769.0 | 3056.9 | 2813.4 | 2737.8 | 2673.2 | 2658.4 | 2669.5 |
| 37.5° | 8975.2  | 8956.8  | 7777.9 | 5154.5 | 3396.4 | 2818.9 | 2593.9 | 2494.2 | 2400.2 | 2348.5 | 2350.3 |
| 40°   | 9595.1  | 9576.7  | 8006.7 | 4975.6 | 3066.2 | 2612.3 | 2396.5 | 2265.5 | 2149.3 | 2055.2 | 2064.4 |
| 42.5° | 10292.5 | 10183.6 | 8115.5 | 4719.1 | 2785.7 | 2437.1 | 2236.0 | 2058.9 | 1905.7 | 1819.0 | 1824.6 |
| 45°   | 11054.4 | 10809.0 | 8113.7 | 4392.6 | 2549.6 | 2276.6 | 2064.4 | 1813.5 | 1671.4 | 1590.3 | 1586.6 |
| 47.5° | 11862.4 | 11406.8 | 8014.1 | 4031.0 | 2320.8 | 2099.4 | 1798.7 | 1606.9 | 1512.8 | 1463.0 | 1451.9 |
| 50°   | 12696.3 | 11965.8 | 7844.3 | 3615.9 | 2086.5 | 1898.4 | 1632.7 | 1501.7 | 1429.8 | 1383.6 | 1367.0 |
| 52.5° | 13480.4 | 12473.1 | 7639.6 | 3145.5 | 1848.5 | 1702.8 | 1558.9 | 1457.4 | 1381.8 | 1330.1 | 1308.0 |
| 55°   | 14209.1 | 12910.3 | 7349.9 | 2664.0 | 1654.8 | 1571.8 | 1523.9 | 1439.0 | 1352.3 | 1291.4 | 1267.4 |
| 57.5° | 14856.6 | 13194.4 | 6850.0 | 2212.0 | 1516.5 | 1481.4 | 1487.0 | 1407.6 | 1308.0 | 1256.3 | 1223.1 |
| 60°   | 15395.3 | 13402.9 | 6110.2 | 1793.2 | 1403.9 | 1392.9 | 1429.8 | 1348.6 | 1232.4 | 1173.3 | 1147.5 |
| 62.5° | 15718.2 | 13399.2 | 5202.5 | 1468.5 | 1308.0 | 1311.7 | 1354.1 | 1274.8 | 1156.7 | 1101.4 | 1084.8 |
| 65°   | 15690.5 | 13070.8 | 4206.3 | 1256.3 | 1215.8 | 1219.5 | 1274.8 | 1193.6 | 1094.0 | 1060.8 | 1058.9 |
| 67.5° | 15135.2 | 12270.2 | 3226.7 | 1118.0 | 1114.3 | 1130.9 | 1195.5 | 1138.3 | 1055.3 | 1051.6 | 1057.1 |
| 70°   | 13631.7 | 10607.9 | 2324.5 | 1007.3 | 1009.1 | 1033.1 | 1118.0 | 1103.2 | 1035.0 | 1042.3 | 1040.5 |
| 72.5° | 10930.8 | 8087.9  | 1560.8 | 891.1  | 892.9  | 931.7  | 1044.2 | 1075.6 | 1014.7 | 1112.4 | 1127.2 |
| 75°   | 7279.8  | 5043.8  | 1003.6 | 767.5  | 769.3  | 819.1  | 979.6  | 1022.1 | 959.3  | 1108.8 | 1118.0 |
| 77.5° | 3497.9  | 2267.3  | 726.9  | 645.7  | 645.7  | 691.8  | 846.8  | 915.0  | 817.3  | 861.5  | 789.6  |
| 80°   | 1208.4  | 852.3   | 571.9  | 520.3  | 509.2  | 540.5  | 714.0  | 793.3  | 704.7  | 649.4  | 608.8  |
| 82.5° | 476.0   | 442.8   | 459.4  | 404.0  | 367.1  | 387.4  | 555.3  | 654.9  | 518.4  | 468.6  | 466.7  |
| 85°   | 273.0   | 287.8   | 324.7  | 267.5  | 212.2  | 238.0  | 407.7  | 470.4  | 391.1  | 345.0  | 352.4  |
| 87.5° | 73.8    | 101.5   | 149.4  | 138.4  | 95.9   | 101.5  | 193.7  | 260.1  | 225.1  | 173.4  | 179.0  |
| 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)