

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: P950200

Luminaire Tested: **GALN-SB4D-722-U-T2U-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P950200  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4D-722-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 25748 lumens  
Efficiency: N/A  
Efficacy: 87.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 293.6  
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

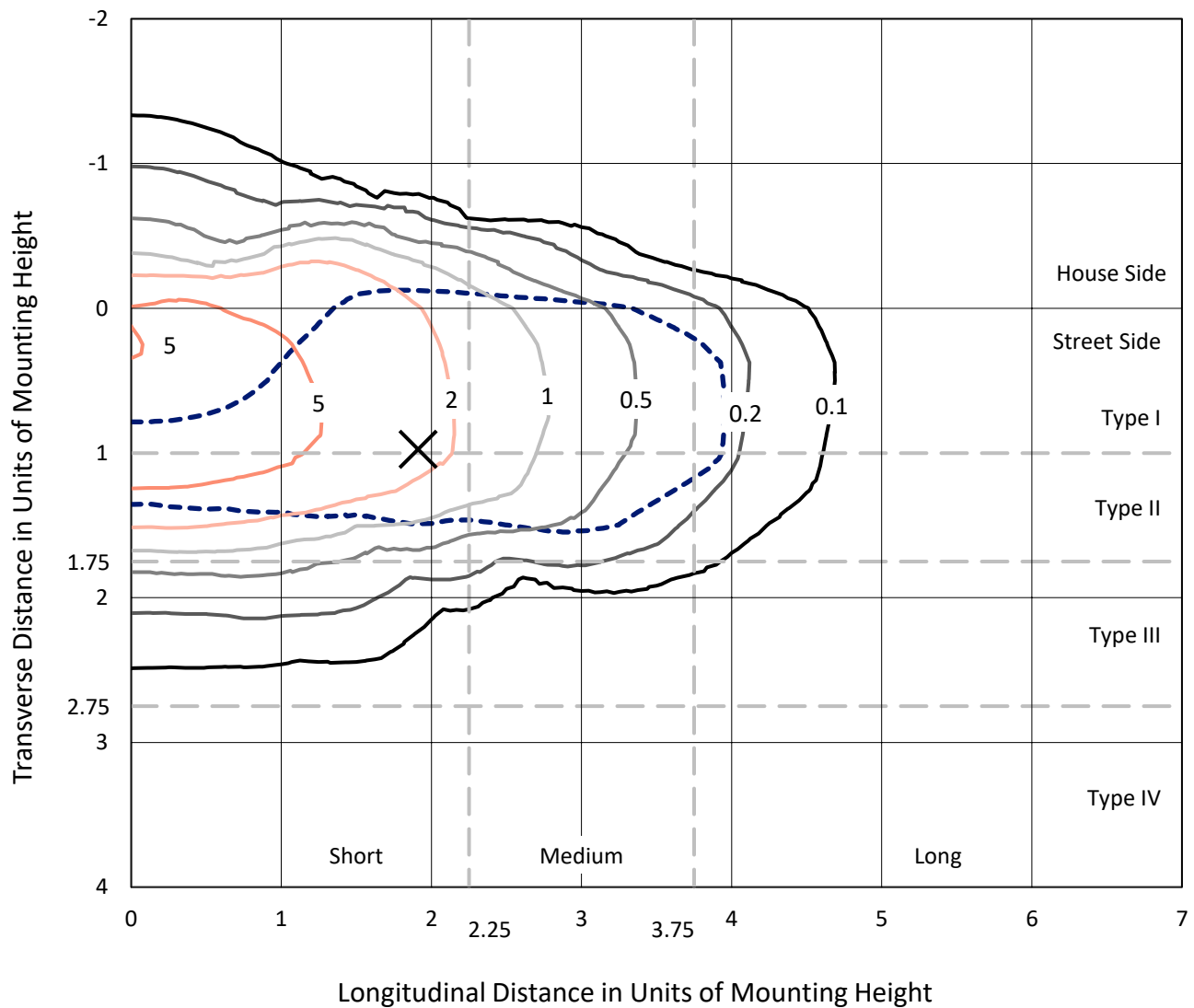


REPORT NUMBER: P950200

CATALOG NUMBER: GALN-SB4D-722-U-T2U-HSS

## Iso-Footcandle Lines of Horizontal Illumination

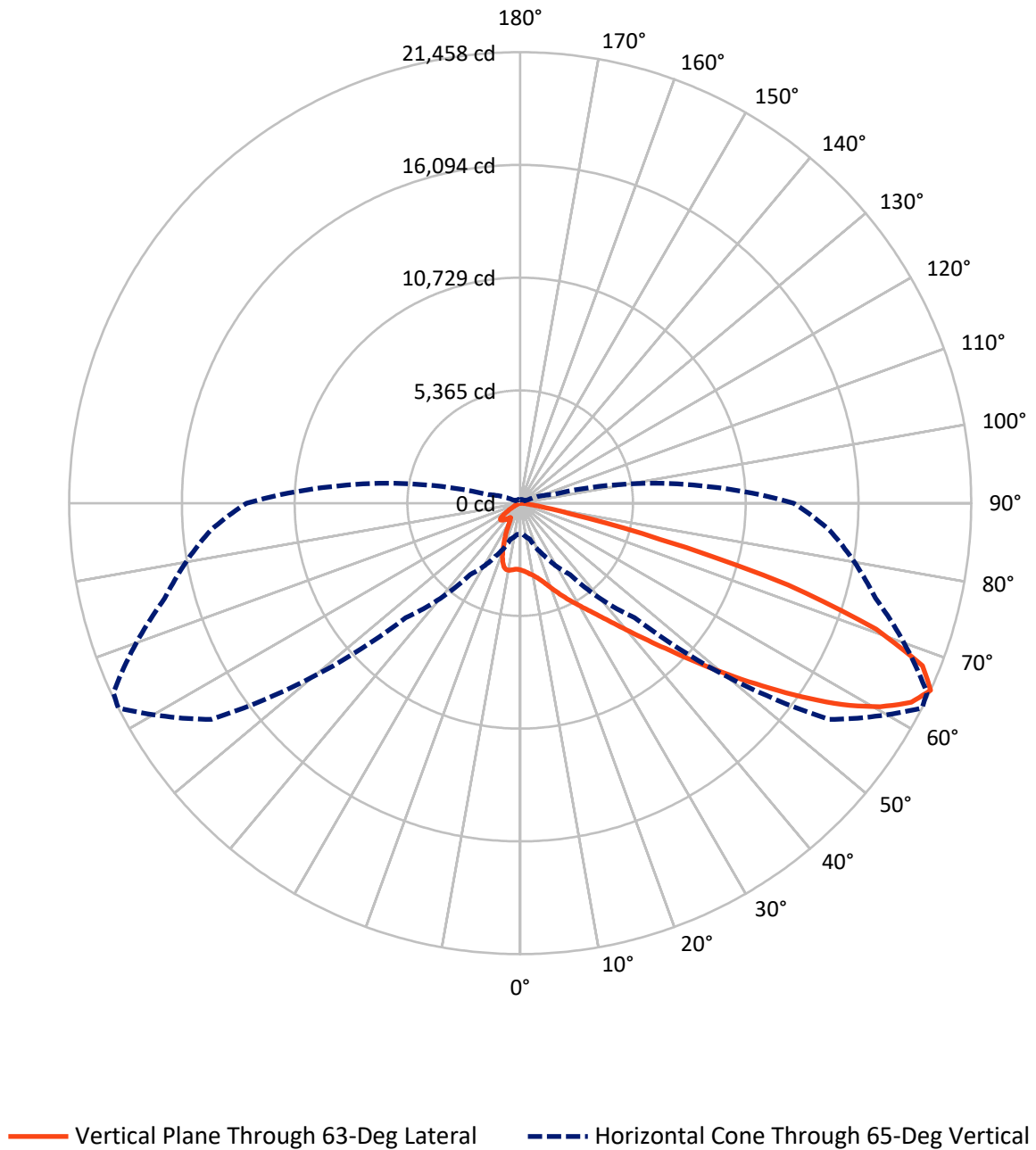
✕ Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc  
Type II - Short - N/A

REPORT NUMBER: P950200  
CATALOG NUMBER: GALN-SB4D-722-U-T2U-HSS

## Luminous Intensity Polar Plot



REPORT NUMBER: P950200

CATALOG NUMBER: GALN-SB4D-722-U-T2U-HSS

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3784.8   | 0.0    | 3784.8  |
|                    | % Fixture | 14.7     | 0.0    | 14.7    |
| <b>Street Side</b> | Lumens    | 21963.2  | 0.0    | 21963.2 |
|                    | % Fixture | 85.3     | 0.0    | 85.3    |
| <b>Total</b>       | Lumens    | 25748.0  | 0.0    | 25748.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 299.4   | 1.2       |
| 10°-20°   | 830.7   | 3.2       |
| 20°-30°   | 1446.5  | 5.6       |
| 30°-40°   | 2607.2  | 10.1      |
| 40°-50°   | 5171.0  | 20.1      |
| 50°-60°   | 7043.7  | 27.4      |
| 60°-70°   | 5622.3  | 21.8      |
| 70°-80°   | 2544.2  | 9.9       |
| 80°-90°   | 182.9   | 0.7       |
| 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°    | 25748.0 | 100.0     |
| 0°-180°   | 25748.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P950200

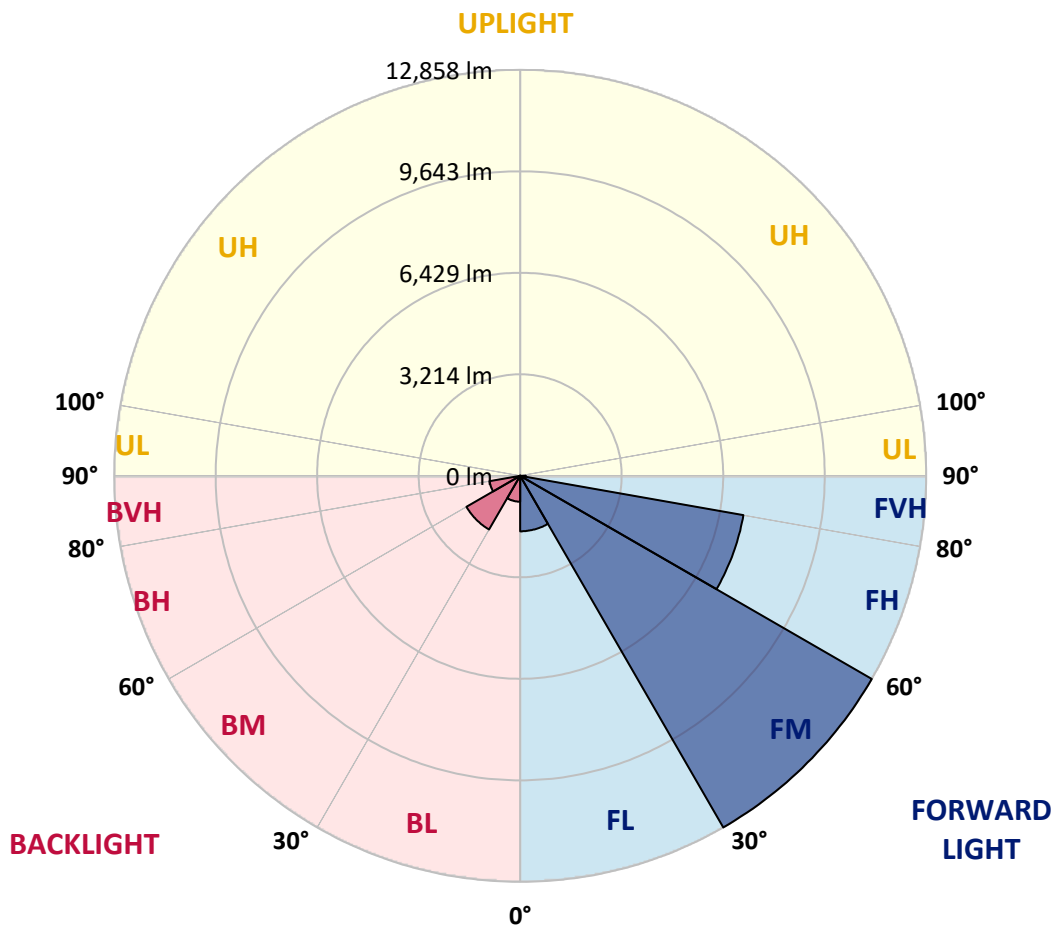
CATALOG NUMBER: GALN-SB4D-722-U-T2U-HSS

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1757.6  | 6.8       |                         |      |         |
| FM   | (30°-60°)   | 12857.9 | 49.9      |                         |      |         |
| FH   | (60°-80°)   | 7178.4  | 27.9      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 169.3   | 0.7       |                         |      | G2/225  |
| BL   | (0°-30°)    | 819.1   | 3.2       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1964.1  | 7.6       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 988.0   | 3.8       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 13.6    | 0.1       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**

Type II Short



REPORT NUMBER: P950200

CATALOG NUMBER: GALN-SB4D-722-U-T2U-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 63°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3177.8  | 3177.8  | 3177.8  | 3177.8  | 3177.8  | 3177.8  | 3177.8  | 3177.8  | 3177.8  | 3177.8  | 3177.8  |
| 2.5°  | 3252.2  | 3243.3  | 3255.7  | 3250.4  | 3246.9  | 3239.8  | 3236.2  | 3232.7  | 3225.6  | 3220.3  | 3199.0  |
| 5°    | 3261.0  | 3255.7  | 3268.1  | 3278.8  | 3289.4  | 3300.0  | 3305.3  | 3312.4  | 3305.3  | 3291.2  | 3269.9  |
| 7.5°  | 3186.6  | 3183.1  | 3209.7  | 3241.6  | 3289.4  | 3330.1  | 3374.4  | 3399.2  | 3401.0  | 3395.7  | 3372.6  |
| 10°   | 3181.3  | 3172.5  | 3199.0  | 3238.0  | 3300.0  | 3372.6  | 3450.6  | 3503.7  | 3510.8  | 3533.8  | 3509.0  |
| 12.5° | 3264.6  | 3255.7  | 3292.9  | 3335.4  | 3399.2  | 3475.4  | 3571.0  | 3645.4  | 3656.1  | 3687.9  | 3670.2  |
| 15°   | 3404.5  | 3392.1  | 3434.6  | 3489.5  | 3571.0  | 3657.8  | 3758.8  | 3826.1  | 3835.0  | 3873.9  | 3842.0  |
| 17.5° | 3567.5  | 3555.1  | 3604.7  | 3663.1  | 3751.7  | 3870.4  | 3987.3  | 4061.7  | 4072.3  | 4097.1  | 4038.7  |
| 20°   | 3776.5  | 3760.6  | 3799.5  | 3852.7  | 3946.6  | 4088.3  | 4228.2  | 4334.5  | 4332.7  | 4332.7  | 4237.1  |
| 22.5° | 4019.2  | 3994.4  | 4028.0  | 4070.5  | 4159.1  | 4330.9  | 4516.9  | 4642.7  | 4642.7  | 4593.1  | 4435.4  |
| 25°   | 4279.6  | 4254.8  | 4292.0  | 4330.9  | 4408.9  | 4603.7  | 4821.6  | 4977.5  | 4984.6  | 4899.5  | 4648.0  |
| 27.5° | 4605.5  | 4573.6  | 4601.9  | 4648.0  | 4694.1  | 4892.4  | 5151.1  | 5331.7  | 5335.3  | 5204.2  | 4849.9  |
| 30°   | 5232.5  | 5142.2  | 5053.6  | 5004.0  | 5025.3  | 5221.9  | 5498.2  | 5698.4  | 5716.1  | 5535.4  | 5069.6  |
| 32.5° | 6380.4  | 6362.7  | 6050.9  | 5643.5  | 5430.9  | 5576.2  | 5886.2  | 6127.1  | 6137.7  | 5905.7  | 5354.8  |
| 35°   | 8164.1  | 8142.9  | 7641.6  | 6865.7  | 6173.1  | 6050.9  | 6357.4  | 6642.5  | 6635.5  | 6373.3  | 5725.0  |
| 37.5° | 10293.3 | 10273.8 | 9613.1  | 8575.1  | 7453.8  | 6768.3  | 6964.9  | 7264.3  | 7308.6  | 6964.9  | 6203.2  |
| 40°   | 12112.4 | 12039.8 | 11621.8 | 10621.0 | 9154.3  | 7958.6  | 7829.3  | 8027.7  | 8073.8  | 7666.4  | 6810.8  |
| 42.5° | 13490.5 | 13428.6 | 13216.0 | 12590.7 | 11212.6 | 9719.4  | 8847.9  | 8924.0  | 8975.4  | 8486.5  | 7508.7  |
| 45°   | 14204.4 | 14190.2 | 14275.3 | 14216.8 | 13309.9 | 11880.4 | 10303.9 | 9986.8  | 10006.3 | 9395.2  | 8300.5  |
| 47.5° | 14305.4 | 14298.3 | 14686.2 | 15235.3 | 15113.1 | 14317.8 | 12172.7 | 11311.8 | 11242.7 | 10420.8 | 9161.4  |
| 50°   | 13710.2 | 13696.0 | 14440.0 | 15469.1 | 16317.6 | 16365.4 | 14294.7 | 12805.0 | 12652.7 | 11481.8 | 10059.5 |
| 52.5° | 11809.5 | 11806.0 | 13028.2 | 14741.1 | 16741.0 | 18158.0 | 16392.0 | 14445.3 | 14190.2 | 12604.9 | 11008.9 |
| 55°   | 9087.0  | 9152.5  | 10553.7 | 12578.3 | 15968.7 | 19020.7 | 18274.9 | 16266.2 | 15874.8 | 13735.0 | 11883.9 |
| 57.5° | 6437.1  | 6532.7  | 7917.9  | 9721.1  | 13573.8 | 18510.5 | 19548.5 | 18090.7 | 17669.1 | 14861.6 | 12771.4 |
| 60°   | 3457.7  | 3542.7  | 4929.6  | 7081.8  | 10098.4 | 16608.1 | 20219.9 | 19674.3 | 19275.8 | 15931.5 | 13572.0 |
| 62.5° | 2060.1  | 2088.4  | 2662.3  | 4571.8  | 6830.3  | 12688.1 | 19934.7 | 20880.6 | 20552.9 | 16829.5 | 14268.2 |
| 65°   | 1479.1  | 1484.4  | 1773.1  | 2791.6  | 4146.7  | 7708.9  | 17934.8 | 21458.1 | 21357.1 | 17506.2 | 14783.6 |
| 67.5° | 1245.3  | 1241.7  | 1362.2  | 1854.6  | 2825.3  | 3861.5  | 13745.6 | 20641.5 | 21070.1 | 17934.8 | 15075.9 |
| 70°   | 1068.1  | 1073.4  | 1215.1  | 1358.6  | 2123.8  | 2185.8  | 6833.8  | 17972.0 | 18886.1 | 18048.2 | 15058.2 |
| 72.5° | 795.3   | 813.0   | 944.1   | 1238.2  | 1603.1  | 1503.9  | 2359.4  | 13325.8 | 14978.5 | 17004.9 | 14277.0 |
| 75°   | 561.5   | 570.4   | 664.3   | 1041.5  | 1195.7  | 1094.7  | 1204.5  | 6888.8  | 9007.3  | 13037.1 | 11685.6 |
| 77.5° | 432.2   | 448.1   | 503.1   | 728.0   | 1177.9  | 768.8   | 736.9   | 2384.2  | 3663.1  | 7875.4  | 8011.8  |
| 80°   | 233.8   | 262.2   | 363.1   | 526.1   | 827.2   | 543.8   | 364.9   | 949.4   | 1241.7  | 3682.6  | 3089.2  |
| 82.5° | 120.5   | 134.6   | 253.3   | 379.1   | 471.2   | 474.7   | 180.7   | 395.0   | 511.9   | 1137.2  | 423.4   |
| 85°   | 47.8    | 58.5    | 170.0   | 209.0   | 242.7   | 233.8   | 81.5    | 159.4   | 184.2   | 315.3   | 129.3   |
| 87.5° | 10.6    | 17.7    | 62.0    | 47.8    | 46.1    | 49.6    | 19.5    | 37.2    | 35.4    | 37.2    | 23.0    |
| 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: P950200

CATALOG NUMBER: GALN-SB4D-722-U-T2U-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3177.8  | 3177.8  | 3177.8 | 3177.8 | 3177.8 | 3177.8 | 3177.8 | 3177.8 | 3177.8 | 3177.8 | 3177.8 |
| 2.5°  | 3197.3  | 3190.2  | 3170.7 | 3149.4 | 3124.6 | 3110.5 | 3101.6 | 3099.9 | 3087.5 | 3078.6 | 3087.5 |
| 5°    | 3250.4  | 3243.3  | 3206.1 | 3161.8 | 3114.0 | 3076.8 | 3041.4 | 3009.5 | 2963.5 | 2954.6 | 2951.1 |
| 7.5°  | 3356.7  | 3337.2  | 3277.0 | 3216.8 | 3126.4 | 3018.4 | 2887.3 | 2736.7 | 2602.1 | 2561.4 | 2541.9 |
| 10°   | 3487.8  | 3461.2  | 3385.0 | 3278.8 | 3078.6 | 2784.6 | 2467.5 | 2173.4 | 1939.6 | 1874.1 | 1849.3 |
| 12.5° | 3636.6  | 3613.5  | 3512.6 | 3316.0 | 2878.4 | 2345.3 | 1859.9 | 1495.0 | 1268.3 | 1211.6 | 1195.7 |
| 15°   | 3813.7  | 3780.0  | 3640.1 | 3259.3 | 2520.6 | 1782.0 | 1277.1 | 1061.0 | 979.6  | 968.9  | 958.3  |
| 17.5° | 4001.5  | 3946.6  | 3753.5 | 3055.6 | 2038.8 | 1266.5 | 986.6  | 924.6  | 889.2  | 878.6  | 873.3  |
| 20°   | 4173.3  | 4102.4  | 3820.8 | 2747.4 | 1523.4 | 986.6  | 883.9  | 843.2  | 811.3  | 798.9  | 791.8  |
| 22.5° | 4345.1  | 4244.1  | 3820.8 | 2327.5 | 1142.5 | 875.0  | 811.3  | 774.1  | 736.9  | 720.9  | 712.1  |
| 25°   | 4524.0  | 4389.4  | 3753.5 | 1859.9 | 919.3  | 802.4  | 742.2  | 701.5  | 669.6  | 650.1  | 643.0  |
| 27.5° | 4697.6  | 4511.6  | 3599.4 | 1417.1 | 818.4  | 738.7  | 678.4  | 639.5  | 609.3  | 595.2  | 595.2  |
| 30°   | 4862.3  | 4632.1  | 3383.3 | 1075.2 | 752.8  | 676.7  | 620.0  | 586.3  | 556.2  | 542.0  | 543.8  |
| 32.5° | 5085.5  | 4784.4  | 3153.0 | 882.1  | 696.1  | 618.2  | 566.8  | 534.9  | 508.4  | 497.7  | 497.7  |
| 35°   | 5395.5  | 5009.4  | 2954.6 | 866.2  | 648.3  | 570.4  | 519.0  | 488.9  | 462.3  | 453.5  | 453.5  |
| 37.5° | 5834.8  | 5372.5  | 2850.1 | 972.5  | 609.3  | 527.9  | 480.0  | 448.1  | 423.4  | 416.3  | 414.5  |
| 40°   | 6376.8  | 5864.9  | 2906.8 | 1078.7 | 582.8  | 490.7  | 444.6  | 412.7  | 391.5  | 382.6  | 380.8  |
| 42.5° | 7019.8  | 6472.5  | 3220.3 | 1160.2 | 565.1  | 458.8  | 411.0  | 375.5  | 361.4  | 357.8  | 357.8  |
| 45°   | 7758.5  | 7140.3  | 3700.3 | 1247.0 | 536.7  | 428.7  | 377.3  | 350.7  | 340.1  | 338.3  | 336.6  |
| 47.5° | 8598.1  | 7873.6  | 4256.5 | 1355.1 | 508.4  | 400.3  | 350.7  | 333.0  | 324.2  | 320.6  | 320.6  |
| 50°   | 9430.6  | 8612.3  | 4828.7 | 1415.3 | 485.3  | 373.8  | 329.5  | 315.3  | 308.2  | 306.4  | 306.4  |
| 52.5° | 10302.1 | 9372.2  | 5291.0 | 1358.6 | 465.9  | 352.5  | 311.8  | 301.1  | 294.0  | 292.3  | 292.3  |
| 55°   | 11132.9 | 9986.8  | 5370.7 | 1153.1 | 426.9  | 331.2  | 292.3  | 287.0  | 278.1  | 278.1  | 276.3  |
| 57.5° | 11848.5 | 10295.0 | 4807.4 | 846.7  | 387.9  | 299.4  | 272.8  | 267.5  | 260.4  | 258.6  | 256.8  |
| 60°   | 12505.7 | 10206.5 | 3711.0 | 570.4  | 345.4  | 267.5  | 248.0  | 244.4  | 237.4  | 228.5  | 226.7  |
| 62.5° | 12875.9 | 9816.8  | 2538.3 | 372.0  | 302.9  | 233.8  | 219.6  | 217.9  | 201.9  | 184.2  | 180.7  |
| 65°   | 13015.8 | 9016.1  | 1583.6 | 271.0  | 253.3  | 200.2  | 189.5  | 186.0  | 163.0  | 143.5  | 141.7  |
| 67.5° | 12893.6 | 7698.3  | 798.9  | 214.3  | 200.2  | 166.5  | 155.9  | 155.9  | 139.9  | 122.2  | 120.5  |
| 70°   | 12404.7 | 5771.0  | 336.6  | 171.8  | 154.1  | 127.5  | 127.5  | 134.6  | 118.7  | 99.2   | 97.4   |
| 72.5° | 11343.7 | 3882.8  | 178.9  | 131.1  | 115.1  | 90.3   | 104.5  | 109.8  | 93.9   | 74.4   | 74.4   |
| 75°   | 9017.9  | 2368.3  | 124.0  | 97.4   | 72.6   | 63.8   | 79.7   | 83.3   | 63.8   | 49.6   | 47.8   |
| 77.5° | 6167.8  | 1360.4  | 83.3   | 62.0   | 46.1   | 37.2   | 54.9   | 51.4   | 33.7   | 23.0   | 24.8   |
| 80°   | 2708.4  | 566.8   | 47.8   | 28.3   | 17.7   | 14.2   | 19.5   | 14.2   | 10.6   | 7.1    | 7.1    |
| 82.5° | 317.1   | 132.9   | 17.7   | 10.6   | 7.1    | 3.5    | 1.8    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 65.5    | 15.9    | 8.9    | 3.5    | 1.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 12.4    | 3.5     | 1.8    | 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)