

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: P940599

Luminaire Tested: **GALN-SB3D-727-U-T4FT**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P940599  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB3D-727-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 27990 lumens  
Efficiency: N/A  
Efficacy: 128.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 218.1  
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

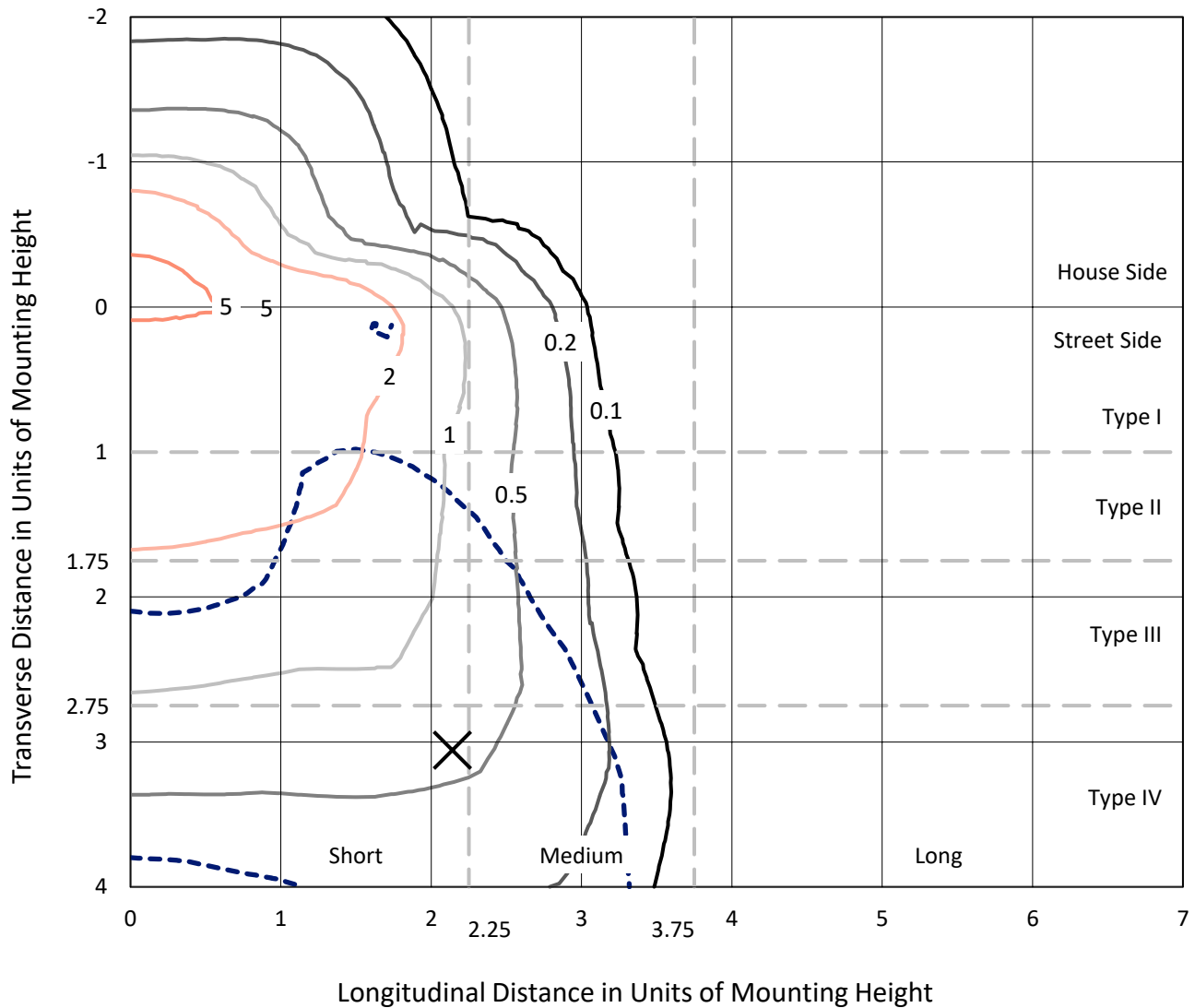


REPORT NUMBER: P940599

CATALOG NUMBER: GALN-SB3D-727-U-T4FT

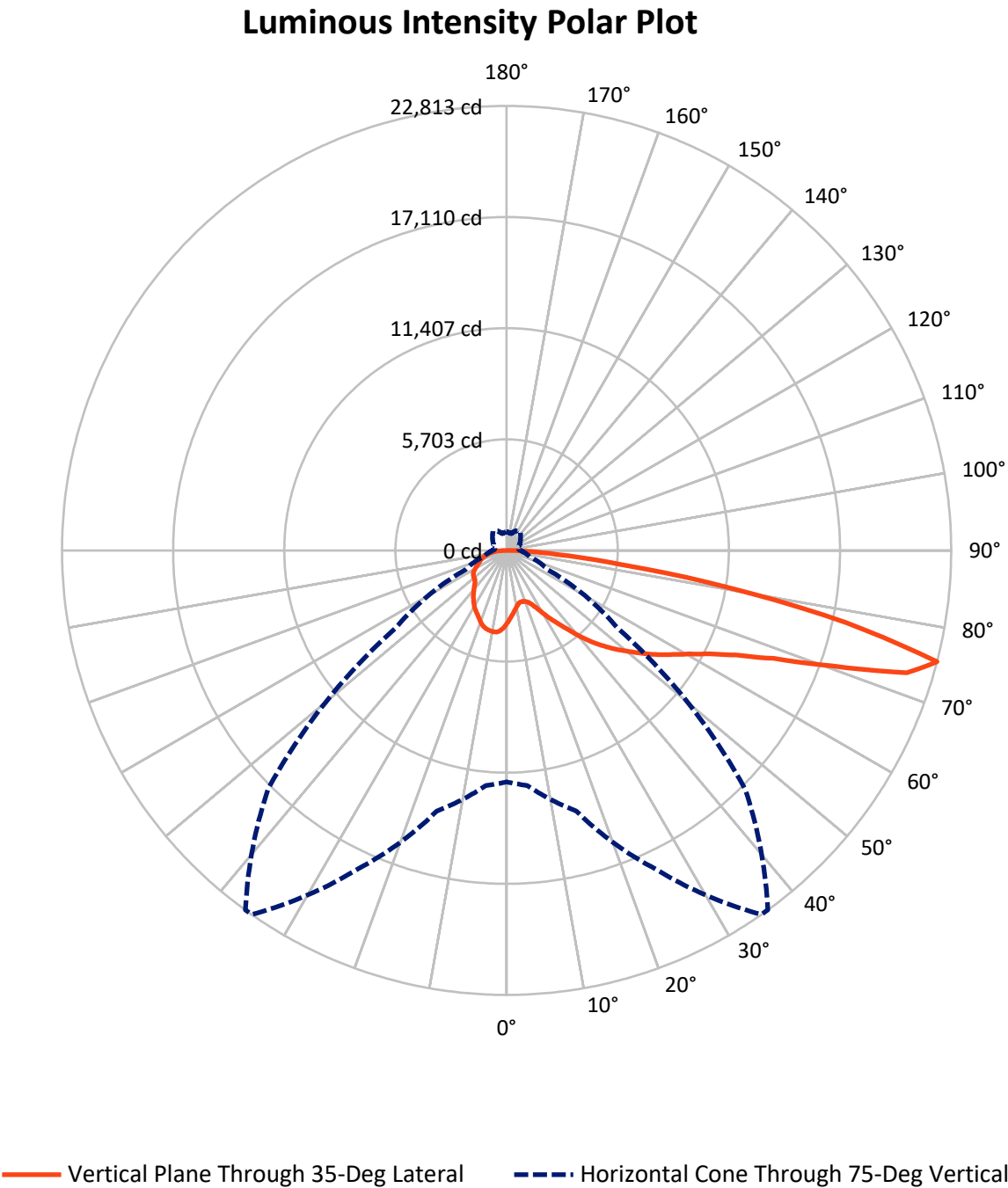
## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc  
 Type IV - Short - N/A

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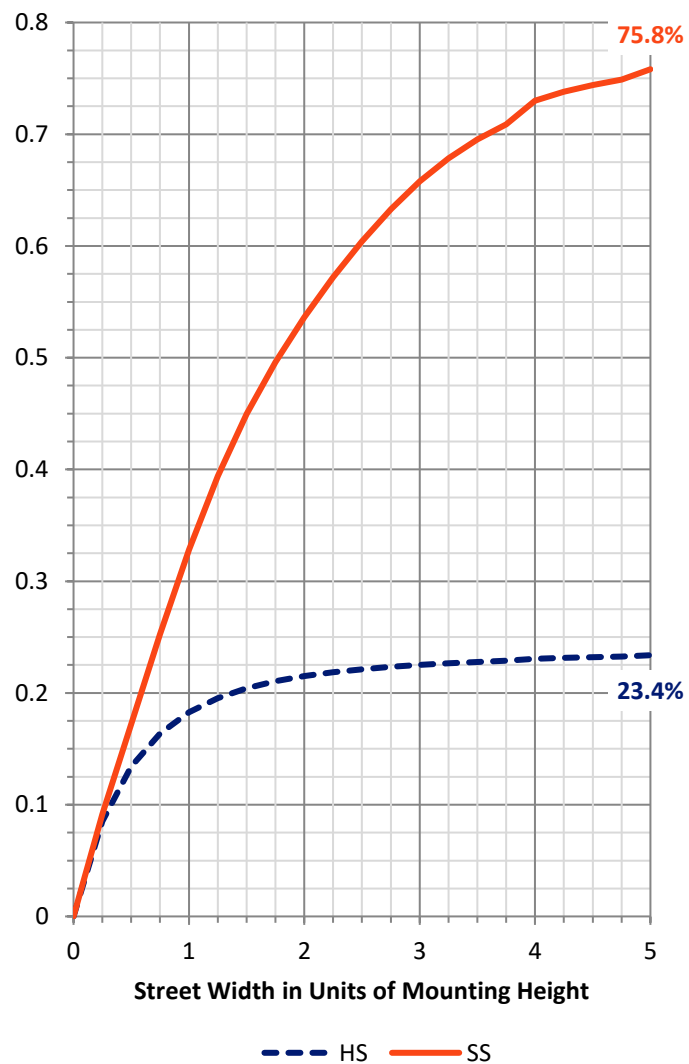
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6660.9   | 0.0    | 6660.9  |
|                    | % Fixture | 23.8     | 0.0    | 23.8    |
| <b>Street Side</b> | Lumens    | 21329.1  | 0.0    | 21329.1 |
|                    | % Fixture | 76.2     | 0.0    | 76.2    |
| <b>Total</b>       | Lumens    | 27990.0  | 0.0    | 27990.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 353.1   | 1.3       |
| 10°-20°   | 1018.6  | 3.6       |
| 20°-30°   | 1710.5  | 6.1       |
| 30°-40°   | 2658.4  | 9.5       |
| 40°-50°   | 3945.8  | 14.1      |
| 50°-60°   | 5447.4  | 19.5      |
| 60°-70°   | 6608.9  | 23.6      |
| 70°-80°   | 5461.7  | 19.5      |
| 80°-90°   | 785.6   | 2.8       |
| 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°    | 27990.0 | 100.0     |
| 0°-180°   | 27990.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P940599

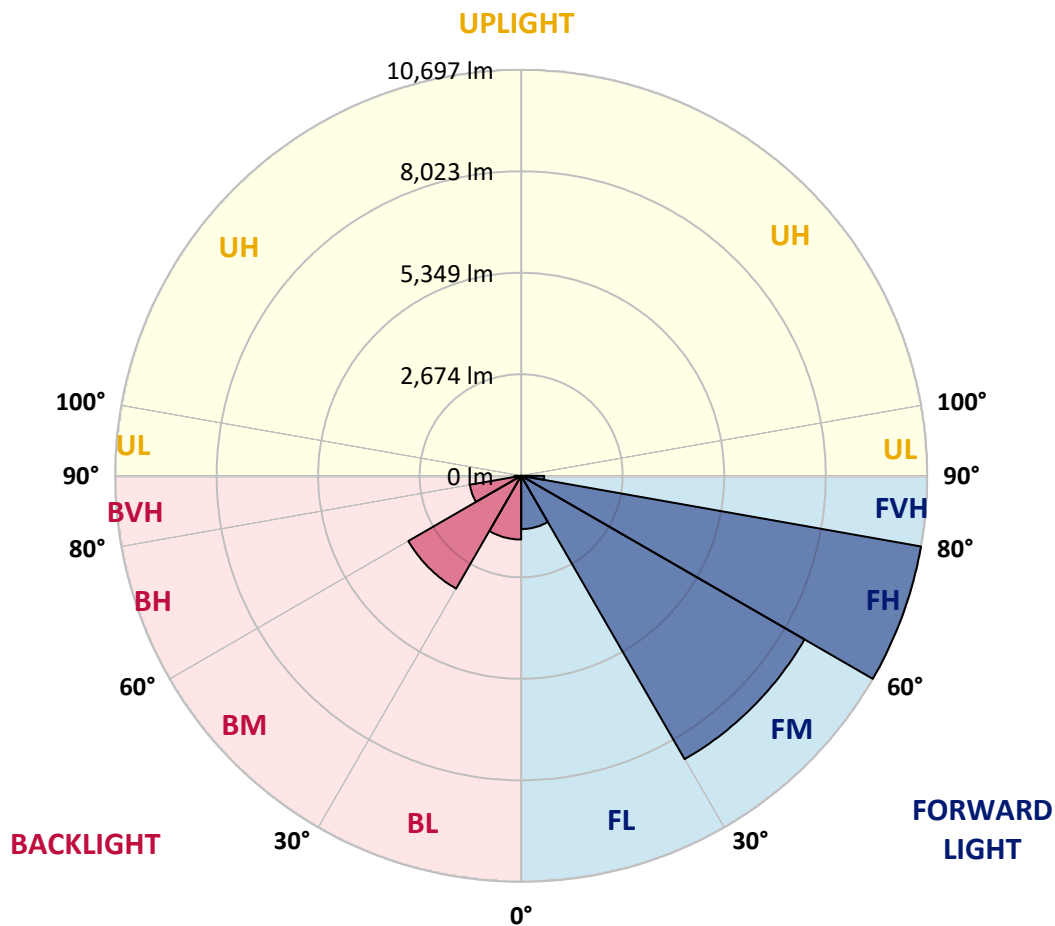
CATALOG NUMBER: GALN-SB3D-727-U-T4FT

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1403.6  | 5.0       |                         |      |          |
| FM   | (30°-60°)   | 8619.4  | 30.8      |                         |      |          |
| FH   | (60°-80°)   | 10697.4 | 38.2      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 608.7   | 2.2       |                         |      | G4/750   |
| BL   | (0°-30°)    | 1678.6  | 6.0       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 3432.1  | 12.3      | B3/5000                 |      |          |
| BH   | (60°-80°)   | 1373.3  | 4.9       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 176.9   | 0.6       |                         |      | 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 IV Short



REPORT NUMBER: P940599

CATALOG NUMBER: GALN-SB3D-727-U-T4FT

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 36°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3729.9  | 3729.9  | 3729.9  | 3729.9  | 3729.9  | 3729.9  | 3729.9  | 3729.9  | 3729.9  | 3729.9  | 3729.9  |
| 2.5°  | 3439.3  | 3460.5  | 3469.6  | 3465.1  | 3487.8  | 3484.7  | 3516.5  | 3555.8  | 3610.3  | 3663.3  | 3740.4  |
| 5°    | 3174.5  | 3197.2  | 3216.9  | 3235.1  | 3278.9  | 3292.6  | 3342.5  | 3418.2  | 3518.0  | 3619.4  | 3746.5  |
| 7.5°  | 2927.9  | 2947.6  | 2977.8  | 3011.1  | 3085.3  | 3098.9  | 3182.1  | 3300.1  | 3439.3  | 3587.6  | 3763.1  |
| 10°   | 2726.7  | 2746.3  | 2778.1  | 2815.9  | 2908.2  | 2924.9  | 3030.8  | 3188.2  | 3369.7  | 3557.4  | 3781.3  |
| 12.5° | 2640.4  | 2646.5  | 2664.6  | 2702.4  | 2782.6  | 2793.2  | 2909.7  | 3089.8  | 3301.6  | 3534.7  | 3808.5  |
| 15°   | 2635.9  | 2648.0  | 2649.5  | 2669.2  | 2735.7  | 2740.3  | 2847.7  | 3026.3  | 3259.3  | 3530.1  | 3849.4  |
| 17.5° | 2681.3  | 2690.3  | 2676.7  | 2688.8  | 2744.8  | 2752.4  | 2837.1  | 2996.0  | 3245.7  | 3549.8  | 3919.0  |
| 20°   | 2802.3  | 2809.9  | 2769.0  | 2752.4  | 2793.2  | 2799.3  | 2882.5  | 3015.7  | 3259.3  | 3590.6  | 4014.3  |
| 22.5° | 3059.5  | 3064.1  | 2964.2  | 2896.1  | 2899.2  | 2902.2  | 2974.8  | 3095.9  | 3312.2  | 3664.8  | 4135.4  |
| 25°   | 3460.5  | 3457.5  | 3298.6  | 3167.0  | 3091.3  | 3074.7  | 3123.1  | 3226.0  | 3401.5  | 3763.1  | 4291.2  |
| 27.5° | 3929.6  | 3906.9  | 3748.0  | 3551.3  | 3386.4  | 3362.2  | 3351.6  | 3395.5  | 3528.6  | 3893.3  | 4481.9  |
| 30°   | 4459.2  | 4438.0  | 4267.0  | 4009.8  | 3781.3  | 3742.0  | 3642.1  | 3619.4  | 3717.8  | 4070.3  | 4746.7  |
| 32.5° | 5040.2  | 5026.6  | 4822.3  | 4510.6  | 4205.0  | 4159.6  | 3991.6  | 3931.1  | 4008.3  | 4338.1  | 5115.9  |
| 35°   | 5527.5  | 5515.3  | 5345.9  | 5025.1  | 4651.4  | 4595.4  | 4424.4  | 4356.3  | 4395.6  | 4681.6  | 5598.6  |
| 37.5° | 5967.8  | 5961.7  | 5816.5  | 5563.8  | 5177.9  | 5109.8  | 4917.7  | 4895.0  | 4887.4  | 5134.0  | 6184.1  |
| 40°   | 6376.3  | 6361.2  | 6209.9  | 6076.7  | 5790.7  | 5728.7  | 5559.2  | 5539.6  | 5482.1  | 5690.9  | 6846.9  |
| 42.5° | 6828.7  | 6789.4  | 6570.0  | 6508.0  | 6430.8  | 6379.3  | 6278.0  | 6281.0  | 6153.9  | 6318.8  | 7549.0  |
| 45°   | 7197.9  | 7175.2  | 6949.8  | 6913.5  | 6996.7  | 6975.5  | 7063.3  | 7086.0  | 6839.3  | 6977.0  | 8278.3  |
| 47.5° | 7594.4  | 7573.2  | 7382.5  | 7356.8  | 7582.3  | 7588.3  | 7898.5  | 7906.1  | 7508.1  | 7661.0  | 9009.2  |
| 50°   | 8083.1  | 8052.9  | 7863.7  | 7895.5  | 8148.2  | 8170.9  | 8738.3  | 8686.9  | 8124.0  | 8355.5  | 9733.9  |
| 52.5° | 8405.4  | 8423.6  | 8382.7  | 8434.2  | 8779.2  | 8800.3  | 9564.5  | 9432.8  | 8733.8  | 9040.9  | 10445.1 |
| 55°   | 8643.0  | 8679.3  | 8806.4  | 8924.4  | 9444.9  | 9466.1  | 10343.7 | 10142.5 | 9239.2  | 9676.4  | 11113.9 |
| 57.5° | 8948.6  | 8897.2  | 9134.7  | 9364.7  | 10077.4 | 10133.4 | 11101.8 | 10826.4 | 9687.0  | 10224.2 | 11572.4 |
| 60°   | 9387.4  | 9351.1  | 9535.7  | 9876.2  | 10785.6 | 10874.8 | 11903.8 | 11442.3 | 10015.4 | 10658.5 | 11661.7 |
| 62.5° | 10277.2 | 10186.4 | 10215.1 | 10516.2 | 11678.3 | 11796.3 | 12808.6 | 11979.4 | 10178.8 | 10827.9 | 11183.5 |
| 65°   | 11607.2 | 11451.3 | 11306.1 | 11514.9 | 12935.7 | 13052.2 | 13830.0 | 12401.6 | 10118.3 | 10499.6 | 9914.0  |
| 67.5° | 13282.2 | 13127.9 | 12949.3 | 13146.0 | 14787.8 | 14880.1 | 15090.4 | 12639.1 | 9641.6  | 9234.6  | 7670.0  |
| 70°   | 14663.7 | 14606.2 | 14819.6 | 15629.1 | 17745.9 | 17749.0 | 16706.4 | 12442.4 | 8335.8  | 6547.3  | 4438.0  |
| 72.5° | 14480.6 | 14445.8 | 15570.1 | 18072.8 | 21474.3 | 21394.1 | 18236.2 | 10953.5 | 5615.2  | 2953.6  | 1662.9  |
| 75°   | 11879.6 | 12105.0 | 13846.6 | 18028.9 | 22813.4 | 22802.8 | 17299.6 | 6963.4  | 2322.6  | 1224.1  | 859.5   |
| 77.5° | 6370.3  | 6727.4  | 8989.5  | 13311.0 | 17809.5 | 18077.3 | 12162.5 | 2436.1  | 997.2   | 783.8   | 594.7   |
| 80°   | 2077.5  | 2389.2  | 3583.1  | 6777.3  | 11572.4 | 11522.5 | 5212.7  | 956.3   | 682.4   | 555.3   | 411.6   |
| 82.5° | 882.2   | 918.5   | 1600.9  | 3200.3  | 5939.0  | 5846.7  | 1659.9  | 549.3   | 479.7   | 379.8   | 254.2   |
| 85°   | 345.0   | 385.8   | 706.6   | 1479.8  | 2572.3  | 2516.3  | 599.2   | 272.4   | 307.2   | 248.2   | 151.3   |
| 87.5° | 113.5   | 137.7   | 252.7   | 506.9   | 800.4   | 771.7   | 146.8   | 93.8    | 133.2   | 113.5   | 54.5    |
| 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: P940599

CATALOG NUMBER: GALN-SB3D-727-U-T4FT

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3729.9  | 3729.9 | 3729.9 | 3729.9 | 3729.9 | 3729.9 | 3729.9 | 3729.9 | 3729.9 | 3729.9 | 3729.9 |
| 2.5°  | 3761.6  | 3785.8 | 3814.6 | 3857.0 | 3893.3 | 3923.5 | 3955.3 | 3975.0 | 3982.5 | 4005.2 | 4003.7 |
| 5°    | 3788.9  | 3841.8 | 3912.9 | 3982.5 | 4050.6 | 4091.5 | 4127.8 | 4146.0 | 4162.6 | 4174.7 | 4177.7 |
| 7.5°  | 3834.3  | 3902.4 | 4014.3 | 4105.1 | 4162.6 | 4195.9 | 4220.1 | 4214.1 | 4220.1 | 4223.1 | 4227.7 |
| 10°   | 3873.6  | 3968.9 | 4102.1 | 4188.3 | 4232.2 | 4233.7 | 4227.7 | 4206.5 | 4195.9 | 4197.4 | 4200.4 |
| 12.5° | 3920.5  | 4026.4 | 4170.2 | 4242.8 | 4254.9 | 4221.6 | 4195.9 | 4159.6 | 4146.0 | 4139.9 | 4136.9 |
| 15°   | 3984.1  | 4105.1 | 4244.3 | 4271.6 | 4241.3 | 4198.9 | 4155.0 | 4096.0 | 4065.8 | 4041.6 | 4049.1 |
| 17.5° | 4061.2  | 4194.4 | 4301.8 | 4282.1 | 4217.1 | 4147.5 | 4076.4 | 3987.1 | 3925.1 | 3899.3 | 3900.8 |
| 20°   | 4168.7  | 4288.2 | 4345.7 | 4259.5 | 4161.1 | 4055.2 | 3934.1 | 3825.2 | 3767.7 | 3742.0 | 3738.9 |
| 22.5° | 4298.8  | 4413.8 | 4388.1 | 4220.1 | 4080.9 | 3911.4 | 3760.1 | 3679.9 | 3651.2 | 3633.0 | 3636.0 |
| 25°   | 4454.6  | 4553.0 | 4418.3 | 4162.6 | 3949.3 | 3720.8 | 3604.3 | 3578.5 | 3564.9 | 3551.3 | 3551.3 |
| 27.5° | 4657.4  | 4710.4 | 4441.0 | 4077.9 | 3743.5 | 3518.0 | 3475.7 | 3480.2 | 3475.7 | 3453.0 | 3457.5 |
| 30°   | 4925.2  | 4914.6 | 4462.2 | 3940.2 | 3507.4 | 3334.9 | 3338.0 | 3357.6 | 3360.7 | 3345.5 | 3353.1 |
| 32.5° | 5277.8  | 5170.4 | 4472.8 | 3761.6 | 3282.0 | 3174.5 | 3177.6 | 3198.7 | 3213.9 | 3188.2 | 3200.3 |
| 35°   | 5704.5  | 5468.4 | 4456.2 | 3537.7 | 3108.0 | 3021.7 | 2999.0 | 3005.1 | 3009.6 | 2985.4 | 3002.0 |
| 37.5° | 6202.3  | 5802.8 | 4382.0 | 3289.5 | 2964.2 | 2871.9 | 2823.5 | 2782.6 | 2758.4 | 2735.7 | 2750.9 |
| 40°   | 6748.5  | 6167.5 | 4245.8 | 3047.4 | 2803.8 | 2713.0 | 2640.4 | 2563.2 | 2481.5 | 2451.3 | 2464.9 |
| 42.5° | 7320.5  | 6542.8 | 4080.9 | 2815.9 | 2619.2 | 2545.1 | 2467.9 | 2355.9 | 2233.4 | 2171.3 | 2178.9 |
| 45°   | 7913.7  | 6927.1 | 3919.0 | 2587.4 | 2430.1 | 2398.3 | 2309.0 | 2174.4 | 2041.2 | 1962.5 | 1956.5 |
| 47.5° | 8494.7  | 7290.2 | 3681.4 | 2357.5 | 2253.0 | 2287.8 | 2218.2 | 2094.2 | 1945.9 | 1821.8 | 1808.2 |
| 50°   | 9050.0  | 7630.7 | 3292.6 | 2124.4 | 2109.3 | 2254.6 | 2188.0 | 2009.4 | 1840.0 | 1681.1 | 1667.5 |
| 52.5° | 9600.8  | 7906.1 | 2794.7 | 1912.6 | 2032.1 | 2245.5 | 2148.6 | 1951.9 | 1744.6 | 1578.2 | 1560.0 |
| 55°   | 10068.3 | 8048.3 | 2315.1 | 1731.0 | 1920.2 | 2168.3 | 2101.7 | 1883.8 | 1610.0 | 1432.9 | 1417.8 |
| 57.5° | 10334.7 | 7933.3 | 1915.6 | 1552.5 | 1765.8 | 2041.2 | 2021.5 | 1738.6 | 1449.6 | 1313.4 | 1295.2 |
| 60°   | 10219.7 | 7467.3 | 1588.8 | 1396.6 | 1619.0 | 1903.5 | 1882.3 | 1594.8 | 1327.0 | 1198.4 | 1180.2 |
| 62.5° | 9585.7  | 6579.1 | 1330.0 | 1260.4 | 1485.9 | 1762.8 | 1743.1 | 1484.4 | 1233.2 | 1109.1 | 1089.5 |
| 65°   | 8308.6  | 5351.9 | 1128.8 | 1146.9 | 1351.2 | 1593.3 | 1622.1 | 1392.1 | 1159.1 | 1038.0 | 1018.3 |
| 67.5° | 6337.0  | 3876.6 | 971.4  | 1048.6 | 1219.6 | 1426.9 | 1510.1 | 1325.5 | 1097.0 | 982.0  | 963.9  |
| 70°   | 3611.8  | 2201.6 | 838.3  | 953.3  | 1103.1 | 1272.5 | 1423.9 | 1272.5 | 1030.4 | 935.1  | 923.0  |
| 72.5° | 1369.4  | 1010.8 | 724.8  | 857.9  | 991.1  | 1142.4 | 1328.5 | 1189.3 | 953.3  | 882.2  | 870.0  |
| 75°   | 730.8   | 615.8  | 609.8  | 746.0  | 862.5  | 1015.3 | 1209.0 | 1107.6 | 895.8  | 932.1  | 962.3  |
| 77.5° | 497.8   | 435.8  | 509.9  | 638.5  | 721.8  | 874.6  | 1081.9 | 983.5  | 776.2  | 773.2  | 712.7  |
| 80°   | 345.0   | 308.7  | 414.6  | 514.5  | 558.3  | 735.4  | 944.2  | 844.3  | 632.5  | 590.1  | 564.4  |
| 82.5° | 207.3   | 201.2  | 310.2  | 384.3  | 394.9  | 567.4  | 782.3  | 708.1  | 517.5  | 450.9  | 453.9  |
| 85°   | 113.5   | 119.5  | 198.2  | 225.5  | 230.0  | 396.4  | 612.8  | 547.8  | 398.0  | 334.4  | 337.4  |
| 87.5° | 31.8    | 40.9   | 72.6   | 89.3   | 110.5  | 205.8  | 364.7  | 325.3  | 199.7  | 139.2  | 139.2  |
| 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)