

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: P954481

Luminaire Tested: **GALN-SB7D-722-U-SLR**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P954481  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB7D-722-U-SLR  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 59569 lumens  
Efficiency: N/A  
Efficacy: 116.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 512.8  
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

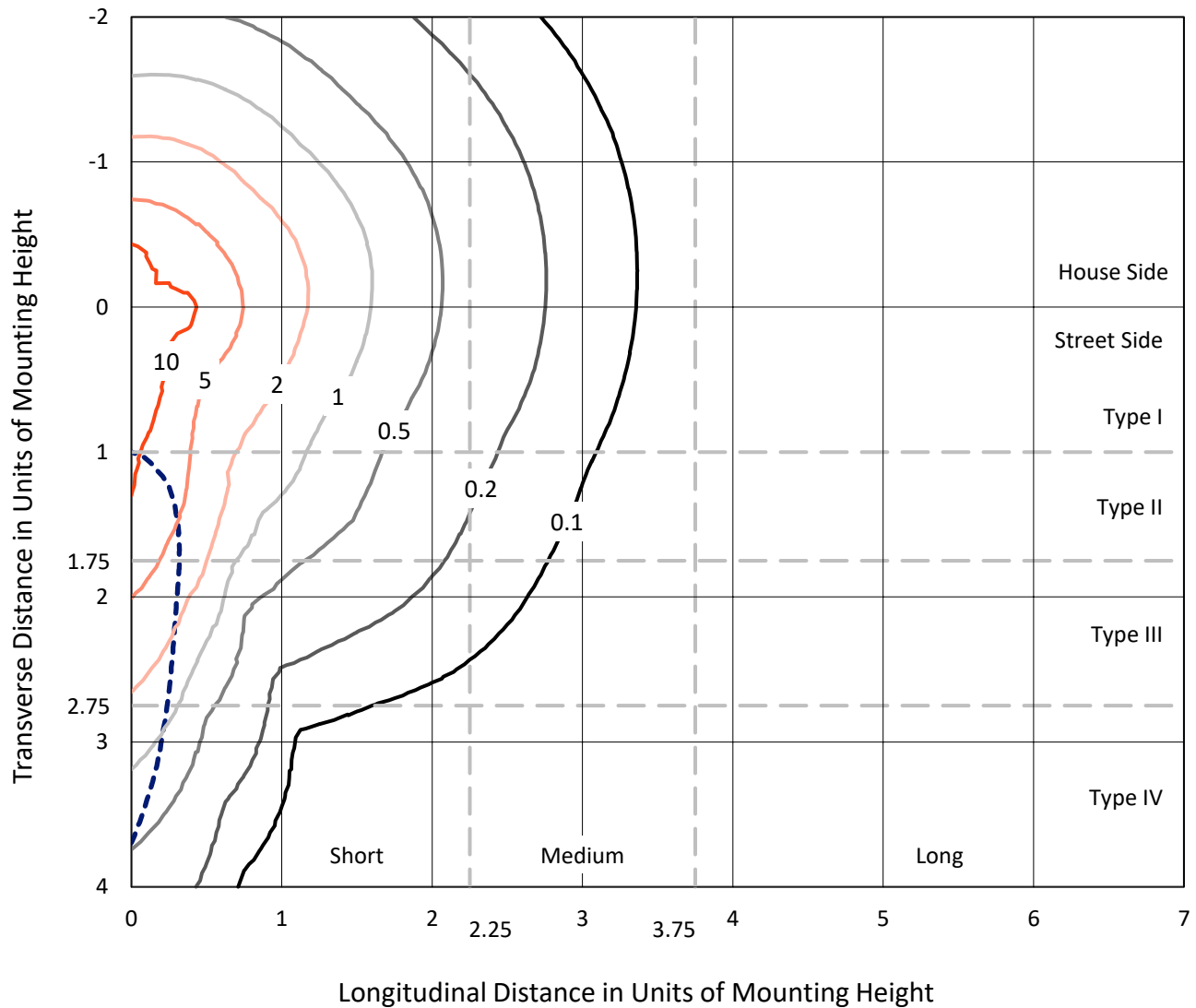


REPORT NUMBER: P954481

CATALOG NUMBER: GALN-SB7D-722-U-SLR

## Iso-Footcandle Lines of Horizontal Illumination

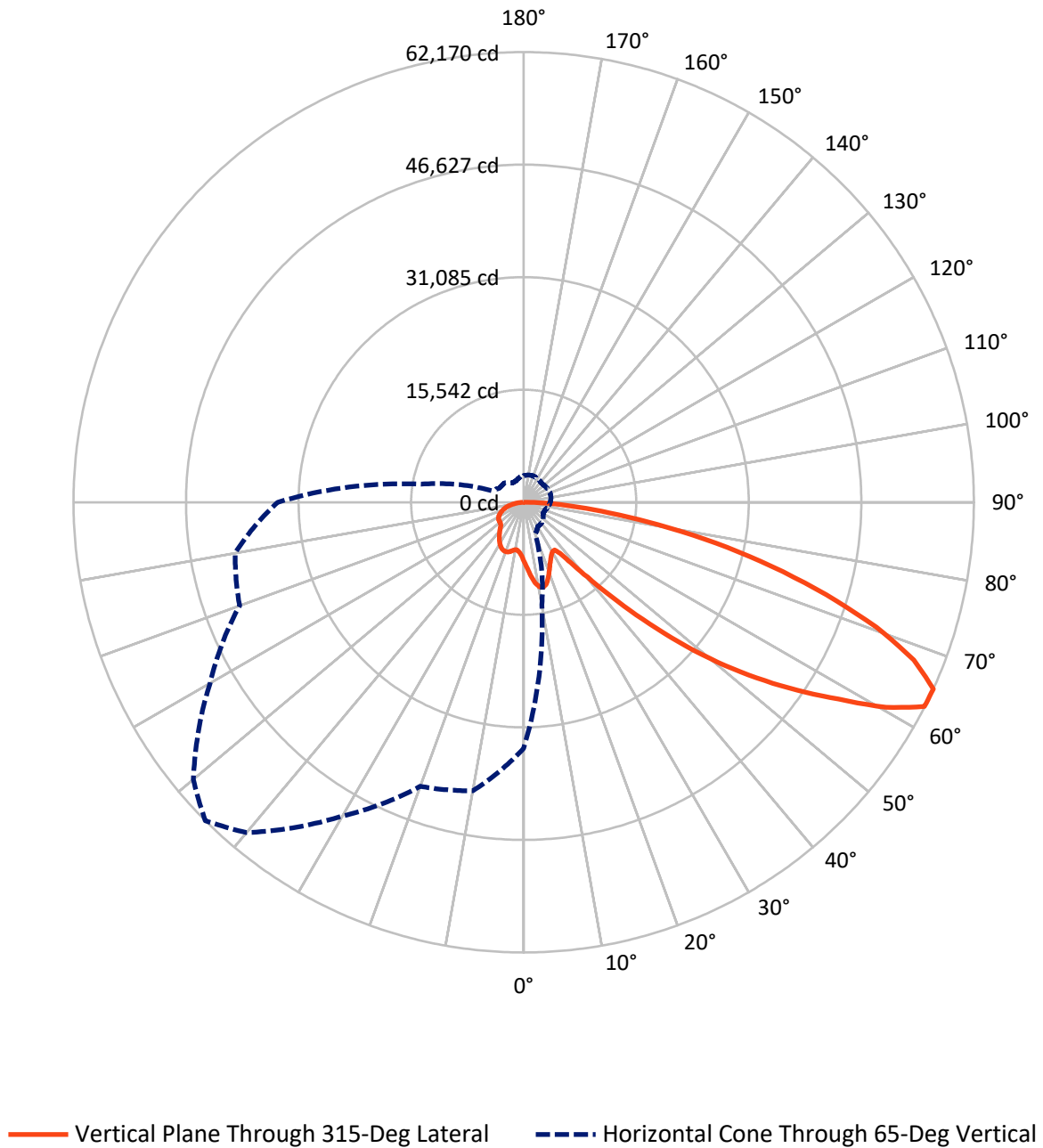
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.2 fc  
Type IV - Short - N/A

REPORT NUMBER: P954481  
CATALOG NUMBER: GALN-SB7D-722-U-SLR

## Luminous Intensity Polar Plot



REPORT NUMBER: P954481

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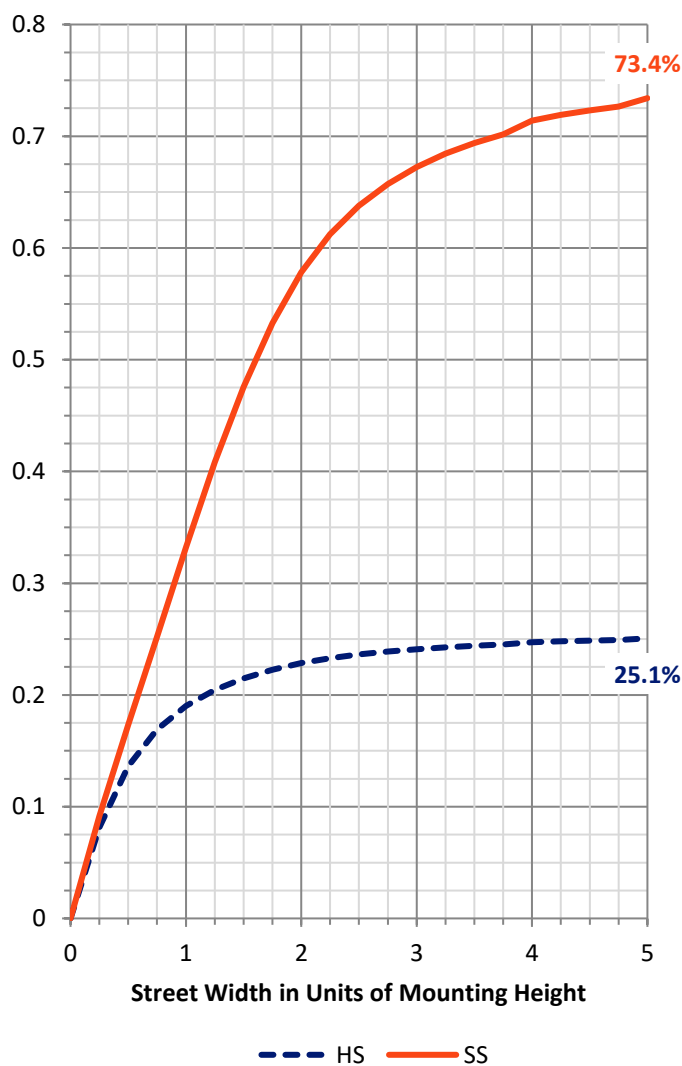
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 15139.4  | 0.0    | 15139.4 |
|                    | % Fixture | 25.4     | 0.0    | 25.4    |
| <b>Street Side</b> | Lumens    | 44429.6  | 0.0    | 44429.6 |
|                    | % Fixture | 74.6     | 0.0    | 74.6    |
| <b>Total</b>       | Lumens    | 59569.0  | 0.0    | 59569.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 812.6   | 1.4       |
| 10°-20°   | 2550.8  | 4.3       |
| 20°-30°   | 3940.1  | 6.6       |
| 30°-40°   | 4993.1  | 8.4       |
| 40°-50°   | 7530.9  | 12.6      |
| 50°-60°   | 12167.3 | 20.4      |
| 60°-70°   | 15168.4 | 25.5      |
| 70°-80°   | 9946.7  | 16.7      |
| 80°-90°   | 2459.1  | 4.1       |
| 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°    | 59569.0 | 100.0     |
| 0°-180°   | 59569.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P954481

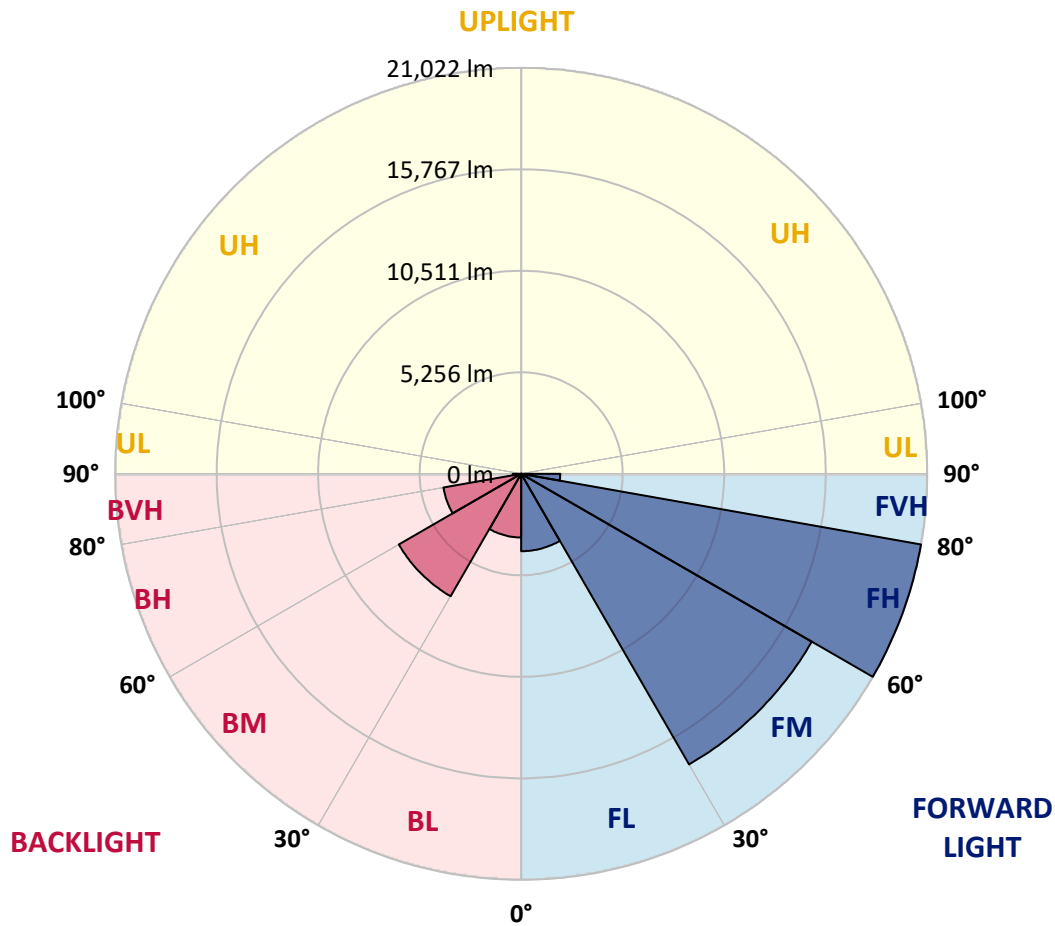
CATALOG NUMBER: GALN-SB7D-722-U-SLR

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 4006.7  | 6.7       |                         |      |         |
| FM   | (30°-60°)   | 17375.0 | 29.2      |                         |      |         |
| FH   | (60°-80°)   | 21022.1 | 35.3      |                         |      | G5      |
| FVH  | (80°-90°)   | 2025.7  | 3.4       |                         |      | G5      |
| BL   | (0°-30°)    | 3296.8  | 5.5       | B4/5000                 |      |         |
| BM   | (30°-60°)   | 7316.3  | 12.3      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 4093.0  | 6.9       | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 433.3   | 0.7       |                         |      | G3/500  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**

Type IV Short



REPORT NUMBER: P954481

CATALOG NUMBER: GALN-SB7D-722-U-SLR

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 10°     | 15°     | 20°     | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|
| 0°    | 8191.3  | 8191.3  | 8191.3  | 8191.3  | 8191.3  | 8191.3 | 8191.3 | 8191.3 | 8191.3 | 8191.3 | 8191.3 |
| 2.5°  | 8808.9  | 8741.3  | 8673.7  | 8601.8  | 8530.1  | 8457.8 | 8385.5 | 8316.4 | 8247.2 | 8180.2 | 8105.8 |
| 5°    | 9472.1  | 9322.8  | 9173.5  | 9024.5  | 8875.8  | 8725.9 | 8576.3 | 8436.4 | 8296.5 | 8164.5 | 8034.1 |
| 7.5°  | 10138.5 | 9892.1  | 9645.9  | 9418.4  | 9190.8  | 8969.2 | 8747.6 | 8552.4 | 8357.2 | 8177.1 | 8008.3 |
| 10°   | 10649.3 | 10337.8 | 10026.3 | 9725.5  | 9425.0  | 9155.9 | 8886.5 | 8655.8 | 8424.5 | 8202.3 | 8020.9 |
| 12.5° | 10962.0 | 10619.7 | 10277.7 | 9937.0  | 9596.3  | 9278.8 | 8961.3 | 8700.1 | 8438.9 | 8205.4 | 8036.6 |
| 15°   | 11152.2 | 10795.4 | 10438.7 | 10069.0 | 9699.4  | 9333.8 | 8968.3 | 8665.9 | 8363.5 | 8104.8 | 7969.7 |
| 17.5° | 11259.0 | 10897.3 | 10535.5 | 10132.2 | 9728.9  | 9304.6 | 8880.2 | 8516.6 | 8152.9 | 7848.6 | 7765.3 |
| 20°   | 11376.9 | 11001.0 | 10624.7 | 10181.5 | 9738.3  | 9224.1 | 8709.9 | 8259.1 | 7808.4 | 7454.2 | 7432.2 |
| 22.5° | 11513.6 | 11129.5 | 10745.1 | 10248.2 | 9750.9  | 9125.4 | 8499.9 | 7957.1 | 7414.2 | 7011.0 | 7054.0 |
| 25°   | 11689.7 | 11313.1 | 10936.9 | 10368.9 | 9800.6  | 9028.0 | 8255.7 | 7619.8 | 6984.3 | 6570.9 | 6687.2 |
| 27.5° | 11928.5 | 11569.6 | 11210.3 | 10557.5 | 9904.3  | 8962.9 | 8021.5 | 7311.5 | 6601.4 | 6225.2 | 6366.6 |
| 30°   | 12250.7 | 11903.7 | 11557.0 | 10801.7 | 10046.4 | 8932.4 | 7817.8 | 7053.7 | 6289.6 | 5973.7 | 6084.7 |
| 32.5° | 12631.1 | 12287.5 | 11944.3 | 11056.6 | 10169.0 | 8894.7 | 7619.8 | 6831.5 | 6042.9 | 5788.3 | 5837.6 |
| 35°   | 13093.1 | 12764.3 | 12435.2 | 11347.1 | 10258.9 | 8823.7 | 7389.1 | 6613.0 | 5837.0 | 5624.8 | 5604.4 |
| 37.5° | 13871.1 | 13451.8 | 13032.4 | 11672.4 | 10312.3 | 8702.0 | 7091.7 | 6355.9 | 5620.1 | 5434.6 | 5359.8 |
| 40°   | 15046.6 | 14435.6 | 13824.5 | 12085.4 | 10345.9 | 8534.5 | 6723.4 | 6049.1 | 5374.9 | 5206.8 | 5092.0 |
| 42.5° | 16605.7 | 15723.7 | 14841.7 | 12625.7 | 10409.7 | 8361.6 | 6314.1 | 5710.6 | 5107.1 | 4952.2 | 4807.6 |
| 45°   | 18530.9 | 17341.2 | 16151.5 | 13336.7 | 10522.0 | 8201.0 | 5880.3 | 5351.0 | 4821.7 | 4664.5 | 4524.7 |
| 47.5° | 20938.6 | 19264.2 | 17589.5 | 14094.2 | 10599.0 | 8068.4 | 5537.7 | 5066.6 | 4595.4 | 4392.7 | 4272.3 |
| 50°   | 24094.4 | 21570.1 | 19045.4 | 14797.1 | 10548.7 | 7923.8 | 5298.9 | 4877.7 | 4456.5 | 4189.9 | 4050.0 |
| 52.5° | 27717.0 | 23992.3 | 20267.5 | 15253.5 | 10239.1 | 7679.5 | 5120.3 | 4753.2 | 4386.4 | 4079.9 | 3884.4 |
| 55°   | 31573.7 | 26139.7 | 20706.0 | 15152.9 | 9599.4  | 7274.7 | 4950.0 | 4663.0 | 4376.0 | 4090.9 | 3796.4 |
| 57.5° | 35081.6 | 27661.7 | 20241.8 | 14445.0 | 8648.6  | 6703.9 | 4758.8 | 4556.1 | 4353.4 | 4101.9 | 3743.6 |
| 60°   | 37201.7 | 28042.0 | 18882.0 | 13127.7 | 7373.4  | 5962.7 | 4552.0 | 4392.7 | 4233.3 | 4067.3 | 3693.9 |
| 62.5° | 36125.1 | 26440.5 | 16755.9 | 11346.4 | 5936.9  | 5075.7 | 4214.4 | 4108.5 | 4002.9 | 3982.5 | 3636.1 |
| 65°   | 33970.4 | 24174.6 | 14378.7 | 9529.0  | 4679.6  | 4277.6 | 3875.6 | 3825.6 | 3775.6 | 3778.2 | 3514.1 |
| 67.5° | 31083.4 | 21478.0 | 11872.6 | 7748.7  | 3624.8  | 3510.7 | 3396.3 | 3424.2 | 3451.9 | 3445.0 | 3296.6 |
| 70°   | 27614.8 | 18535.6 | 9456.4  | 6101.0  | 2745.6  | 2778.3 | 2810.7 | 2940.2 | 3069.4 | 3069.4 | 3020.6 |
| 72.5° | 23481.5 | 15345.9 | 7210.6  | 4664.2  | 2117.9  | 2216.3 | 2315.0 | 2498.6 | 2681.8 | 2712.6 | 2713.2 |
| 75°   | 18252.7 | 11689.3 | 5126.0  | 3385.3  | 1644.5  | 1733.8 | 1823.1 | 2028.6 | 2234.2 | 2376.3 | 2364.3 |
| 77.5° | 13041.3 | 8181.5  | 3321.8  | 2293.9  | 1266.1  | 1326.8 | 1387.7 | 1587.3 | 1786.9 | 2021.1 | 2014.8 |
| 80°   | 8535.4  | 5271.2  | 2007.0  | 1477.9  | 949.3   | 974.4  | 999.5  | 1168.7 | 1337.4 | 1617.2 | 1616.2 |
| 82.5° | 4961.6  | 3050.8  | 1140.4  | 909.0   | 678.3   | 682.7  | 687.7  | 812.2  | 936.7  | 1175.6 | 1188.8 |
| 85°   | 2183.0  | 1372.3  | 562.0   | 485.9   | 410.2   | 408.0  | 405.5  | 496.6  | 587.8  | 765.4  | 782.7  |
| 87.5° | 675.8   | 449.5   | 223.2   | 201.5   | 179.8   | 177.6  | 175.4  | 212.5  | 249.9  | 323.8  | 345.8  |
| 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: P954481

CATALOG NUMBER: GALN-SB7D-722-U-SLR

**CANDELA DISTRIBUTION (continued):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   | 105°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 8191.3 | 8191.3 | 8191.3 | 8191.3 | 8191.3 | 8191.3 | 8191.3 | 8191.3 | 8191.3 | 8191.3 | 8191.3 |
| 2.5°  | 8045.4 | 7985.4 | 7931.0 | 7876.9 | 7829.5 | 7782.0 | 7734.2 | 7686.8 | 7650.0 | 7612.9 | 7583.0 |
| 5°    | 7920.3 | 7806.2 | 7710.7 | 7615.4 | 7531.2 | 7446.9 | 7370.6 | 7293.9 | 7235.1 | 7176.0 | 7134.8 |
| 7.5°  | 7856.8 | 7705.6 | 7579.9 | 7454.2 | 7348.2 | 7242.0 | 7148.3 | 7055.0 | 6984.9 | 6915.1 | 6866.1 |
| 10°   | 7861.2 | 7701.5 | 7575.8 | 7450.1 | 7336.0 | 7221.6 | 7116.3 | 7011.0 | 6927.4 | 6843.4 | 6788.7 |
| 12.5° | 7905.8 | 7775.7 | 7692.1 | 7609.1 | 7519.2 | 7430.0 | 7320.9 | 7212.1 | 7105.3 | 6998.4 | 6927.7 |
| 15°   | 7907.1 | 7844.9 | 7856.2 | 7867.5 | 7844.2 | 7821.0 | 7726.4 | 7631.8 | 7479.6 | 7327.5 | 7220.0 |
| 17.5° | 7788.3 | 7810.9 | 7948.0 | 8085.0 | 8157.9 | 8230.5 | 8154.2 | 8078.1 | 7876.6 | 7675.1 | 7516.7 |
| 20°   | 7539.0 | 7645.9 | 7883.8 | 8122.1 | 8274.5 | 8427.0 | 8391.8 | 8356.3 | 8125.9 | 7895.8 | 7701.5 |
| 22.5° | 7212.1 | 7370.2 | 7641.8 | 7914.0 | 8112.4 | 8310.7 | 8332.1 | 8353.1 | 8133.1 | 7913.1 | 7713.2 |
| 25°   | 6869.5 | 7051.8 | 7296.1 | 7540.6 | 7735.8 | 7931.0 | 8003.9 | 8076.5 | 7896.1 | 7716.0 | 7538.1 |
| 27.5° | 6542.6 | 6718.6 | 6919.5 | 7120.0 | 7276.6 | 7433.1 | 7514.2 | 7595.6 | 7467.1 | 7338.8 | 7200.8 |
| 30°   | 6224.2 | 6364.4 | 6531.0 | 6697.6 | 6827.4 | 6957.5 | 7023.5 | 7089.5 | 6991.8 | 6893.7 | 6795.0 |
| 32.5° | 5920.3 | 6002.9 | 6135.9 | 6269.2 | 6393.6 | 6518.4 | 6591.7 | 6665.2 | 6575.3 | 6485.1 | 6406.2 |
| 35°   | 5627.0 | 5650.0 | 5751.5 | 5852.7 | 5975.9 | 6099.4 | 6187.4 | 6275.5 | 6211.3 | 6147.5 | 6074.6 |
| 37.5° | 5334.7 | 5309.5 | 5382.5 | 5455.1 | 5578.0 | 5701.2 | 5809.9 | 5918.7 | 5889.2 | 5859.6 | 5792.7 |
| 40°   | 5035.1 | 4978.2 | 5030.7 | 5083.2 | 5202.0 | 5320.9 | 5446.0 | 5571.4 | 5578.6 | 5585.5 | 5528.6 |
| 42.5° | 4732.1 | 4656.7 | 4699.4 | 4742.5 | 4855.0 | 4967.9 | 5103.0 | 5238.2 | 5274.3 | 5310.5 | 5262.4 |
| 45°   | 4451.1 | 4377.9 | 4413.7 | 4450.2 | 4557.1 | 4663.9 | 4804.1 | 4944.3 | 4996.2 | 5048.0 | 5004.6 |
| 47.5° | 4210.7 | 4149.1 | 4183.0 | 4216.6 | 4321.3 | 4425.7 | 4564.0 | 4702.3 | 4762.0 | 4821.7 | 4791.5 |
| 50°   | 3995.4 | 3941.0 | 3993.8 | 4046.9 | 4145.6 | 4244.0 | 4367.8 | 4491.7 | 4568.4 | 4645.1 | 4643.2 |
| 52.5° | 3830.3 | 3776.6 | 3856.1 | 3935.3 | 4025.8 | 4116.1 | 4231.4 | 4347.1 | 4437.9 | 4528.8 | 4545.1 |
| 55°   | 3710.9 | 3625.7 | 3738.6 | 3851.1 | 3948.5 | 4046.0 | 4147.2 | 4248.1 | 4344.3 | 4440.8 | 4463.4 |
| 57.5° | 3619.1 | 3494.6 | 3616.0 | 3737.3 | 3851.7 | 3966.1 | 4066.1 | 4166.3 | 4263.5 | 4360.3 | 4383.2 |
| 60°   | 3532.7 | 3371.1 | 3477.7 | 3583.9 | 3715.3 | 3846.7 | 3948.2 | 4050.0 | 4147.5 | 4244.9 | 4270.1 |
| 62.5° | 3434.3 | 3232.8 | 3300.4 | 3368.0 | 3521.0 | 3674.4 | 3782.9 | 3891.3 | 3980.6 | 4069.9 | 4094.1 |
| 65°   | 3299.8 | 3085.1 | 3111.2 | 3136.9 | 3301.0 | 3465.4 | 3569.1 | 3672.9 | 3751.4 | 3830.0 | 3854.9 |
| 67.5° | 3118.1 | 2939.5 | 2931.4 | 2923.2 | 3074.7 | 3226.5 | 3324.9 | 3423.0 | 3490.9 | 3558.8 | 3583.0 |
| 70°   | 2893.7 | 2766.7 | 2738.4 | 2710.1 | 2843.4 | 2976.6 | 3061.5 | 3146.4 | 3207.7 | 3269.0 | 3292.2 |
| 72.5° | 2626.2 | 2539.1 | 2497.6 | 2456.4 | 2561.4 | 2666.1 | 2742.8 | 2819.5 | 2879.5 | 2939.5 | 2967.2 |
| 75°   | 2297.4 | 2230.1 | 2190.5 | 2150.6 | 2228.5 | 2306.5 | 2376.0 | 2445.4 | 2500.1 | 2554.8 | 2583.7 |
| 77.5° | 1961.1 | 1907.3 | 1867.1 | 1826.8 | 1890.3 | 1953.5 | 2013.2 | 2073.0 | 2130.5 | 2187.7 | 2214.7 |
| 80°   | 1571.3 | 1526.0 | 1492.4 | 1458.5 | 1511.3 | 1563.8 | 1614.0 | 1664.3 | 1708.0 | 1751.4 | 1787.2 |
| 82.5° | 1166.8 | 1144.8 | 1120.9 | 1097.0 | 1092.6 | 1088.2 | 1070.6 | 1053.0 | 1146.0 | 1239.1 | 1300.0 |
| 85°   | 759.1  | 735.5  | 708.8  | 682.1  | 659.4  | 636.5  | 587.8  | 539.1  | 626.1  | 713.5  | 789.0  |
| 87.5° | 336.3  | 326.9  | 321.9  | 316.8  | 315.9  | 315.0  | 277.9  | 240.5  | 276.9  | 313.7  | 344.2  |
| 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: P954481

CATALOG NUMBER: GALN-SB7D-722-U-SLR

**CANDELA DISTRIBUTION (continued):**

|       | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 8191.3 | 8191.3 | 8191.3 | 8191.3 | 8191.3 | 8191.3 | 8191.3 | 8191.3 | 8191.3 | 8191.3 | 8191.3 |
| 2.5°  | 7553.2 | 7529.9 | 7506.7 | 7485.3 | 7463.6 | 7436.9 | 7463.6 | 7485.3 | 7506.7 | 7529.9 | 7553.2 |
| 5°    | 7093.6 | 7064.4 | 7035.2 | 7012.9 | 6990.5 | 6968.5 | 6990.5 | 7012.9 | 7035.2 | 7064.4 | 7093.6 |
| 7.5°  | 6817.0 | 6783.4 | 6750.1 | 6730.0 | 6710.2 | 6695.1 | 6710.2 | 6730.0 | 6750.1 | 6783.4 | 6817.0 |
| 10°   | 6733.4 | 6701.7 | 6669.9 | 6653.0 | 6636.0 | 6629.1 | 6636.0 | 6653.0 | 6669.9 | 6701.7 | 6733.4 |
| 12.5° | 6857.0 | 6821.4 | 6786.2 | 6771.8 | 6757.3 | 6754.8 | 6757.3 | 6771.8 | 6786.2 | 6821.4 | 6857.0 |
| 15°   | 7112.5 | 7063.1 | 7014.1 | 6995.3 | 6976.4 | 6974.8 | 6976.4 | 6995.3 | 7014.1 | 7063.1 | 7112.5 |
| 17.5° | 7358.3 | 7285.4 | 7212.1 | 7188.2 | 7164.0 | 7160.3 | 7164.0 | 7188.2 | 7212.1 | 7285.4 | 7358.3 |
| 20°   | 7507.6 | 7414.2 | 7320.6 | 7290.7 | 7260.9 | 7251.4 | 7260.9 | 7290.7 | 7320.6 | 7414.2 | 7507.6 |
| 22.5° | 7512.9 | 7414.6 | 7315.9 | 7282.9 | 7249.9 | 7235.7 | 7249.9 | 7282.9 | 7315.9 | 7414.6 | 7512.9 |
| 25°   | 7360.8 | 7275.3 | 7190.1 | 7159.0 | 7128.2 | 7110.0 | 7128.2 | 7159.0 | 7190.1 | 7275.3 | 7360.8 |
| 27.5° | 7062.8 | 7005.6 | 6948.1 | 6934.0 | 6919.8 | 6915.1 | 6919.8 | 6934.0 | 6948.1 | 7005.6 | 7062.8 |
| 30°   | 6695.7 | 6666.5 | 6636.9 | 6636.9 | 6636.9 | 6641.6 | 6636.9 | 6636.9 | 6636.9 | 6666.5 | 6695.7 |
| 32.5° | 6327.3 | 6308.1 | 6289.0 | 6291.5 | 6294.3 | 6299.0 | 6294.3 | 6291.5 | 6289.0 | 6308.1 | 6327.3 |
| 35°   | 6002.0 | 5972.8 | 5943.8 | 5937.6 | 5931.3 | 5928.1 | 5931.3 | 5937.6 | 5943.8 | 5972.8 | 6002.0 |
| 37.5° | 5725.4 | 5672.3 | 5619.5 | 5591.5 | 5563.5 | 5547.8 | 5563.5 | 5591.5 | 5619.5 | 5672.3 | 5725.4 |
| 40°   | 5471.7 | 5394.4 | 5317.7 | 5265.5 | 5214.0 | 5183.2 | 5214.0 | 5265.5 | 5317.7 | 5394.4 | 5471.7 |
| 42.5° | 5214.6 | 5118.7 | 5022.9 | 4947.1 | 4871.4 | 4821.7 | 4871.4 | 4947.1 | 5022.9 | 5118.7 | 5214.6 |
| 45°   | 4961.6 | 4851.9 | 4742.5 | 4653.5 | 4564.6 | 4507.4 | 4564.6 | 4653.5 | 4742.5 | 4851.9 | 4961.6 |
| 47.5° | 4761.4 | 4663.9 | 4566.5 | 4484.1 | 4402.1 | 4347.1 | 4402.1 | 4484.1 | 4566.5 | 4663.9 | 4761.4 |
| 50°   | 4641.9 | 4564.0 | 4486.0 | 4409.9 | 4333.9 | 4281.1 | 4333.9 | 4409.9 | 4486.0 | 4564.0 | 4641.9 |
| 52.5° | 4561.5 | 4498.0 | 4434.5 | 4366.3 | 4298.4 | 4249.6 | 4298.4 | 4366.3 | 4434.5 | 4498.0 | 4561.5 |
| 55°   | 4486.0 | 4430.7 | 4375.4 | 4315.7 | 4255.9 | 4211.9 | 4255.9 | 4315.7 | 4375.4 | 4430.7 | 4486.0 |
| 57.5° | 4406.2 | 4350.2 | 4294.3 | 4235.2 | 4175.8 | 4130.2 | 4175.8 | 4235.2 | 4294.3 | 4350.2 | 4406.2 |
| 60°   | 4295.2 | 4240.5 | 4186.2 | 4125.2 | 4064.2 | 4017.0 | 4064.2 | 4125.2 | 4186.2 | 4240.5 | 4295.2 |
| 62.5° | 4118.3 | 4068.9 | 4019.6 | 3955.4 | 3891.3 | 3834.7 | 3891.3 | 3955.4 | 4019.6 | 4068.9 | 4118.3 |
| 65°   | 3879.4 | 3831.9 | 3784.4 | 3722.2 | 3660.3 | 3611.6 | 3660.3 | 3722.2 | 3784.4 | 3831.9 | 3879.4 |
| 67.5° | 3606.9 | 3563.2 | 3519.8 | 3462.0 | 3404.1 | 3360.1 | 3404.1 | 3462.0 | 3519.8 | 3563.2 | 3606.9 |
| 70°   | 3315.5 | 3280.0 | 3244.4 | 3189.1 | 3133.8 | 3083.5 | 3133.8 | 3189.1 | 3244.4 | 3280.0 | 3315.5 |
| 72.5° | 2994.9 | 2965.3 | 2935.8 | 2883.0 | 2830.5 | 2781.8 | 2830.5 | 2883.0 | 2935.8 | 2965.3 | 2994.9 |
| 75°   | 2612.7 | 2598.2 | 2583.7 | 2539.4 | 2495.1 | 2448.6 | 2495.1 | 2539.4 | 2583.7 | 2598.2 | 2612.7 |
| 77.5° | 2241.7 | 2221.6 | 2200.9 | 2156.3 | 2111.6 | 2074.5 | 2111.6 | 2156.3 | 2200.9 | 2221.6 | 2241.7 |
| 80°   | 1823.1 | 1814.3 | 1805.8 | 1745.7 | 1685.4 | 1615.6 | 1685.4 | 1745.7 | 1805.8 | 1814.3 | 1823.1 |
| 82.5° | 1361.0 | 1357.2 | 1353.2 | 1302.6 | 1251.6 | 1207.0 | 1251.6 | 1302.6 | 1353.2 | 1357.2 | 1361.0 |
| 85°   | 864.4  | 858.1  | 851.8  | 812.2  | 772.6  | 732.4  | 772.6  | 812.2  | 851.8  | 858.1  | 864.4  |
| 87.5° | 374.7  | 367.1  | 359.0  | 338.8  | 318.1  | 298.6  | 318.1  | 338.8  | 359.0  | 367.1  | 374.7  |
| 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: P954481

CATALOG NUMBER: GALN-SB7D-722-U-SLR

**CANDELA DISTRIBUTION (continued):**

|       | 165°   | 170°   | 175°   | 180°   | 185°   | 190°   | 195°   | 200°   | 205°   | 210°   | 215°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 8191.3 | 8191.3 | 8191.3 | 8191.3 | 8191.3 | 8191.3 | 8191.3 | 8191.3 | 8191.3 | 8191.3 | 8191.3 |
| 2.5°  | 7583.0 | 7612.9 | 7650.0 | 7686.8 | 7734.2 | 7782.0 | 7829.5 | 7876.9 | 7931.0 | 7985.4 | 8045.4 |
| 5°    | 7134.8 | 7176.0 | 7235.1 | 7293.9 | 7370.6 | 7446.9 | 7531.2 | 7615.4 | 7710.7 | 7806.2 | 7920.3 |
| 7.5°  | 6866.1 | 6915.1 | 6984.9 | 7055.0 | 7148.3 | 7242.0 | 7348.2 | 7454.2 | 7579.9 | 7705.6 | 7856.8 |
| 10°   | 6788.7 | 6843.4 | 6927.4 | 7011.0 | 7116.3 | 7221.6 | 7336.0 | 7450.1 | 7575.8 | 7701.5 | 7861.2 |
| 12.5° | 6927.7 | 6998.4 | 7105.3 | 7212.1 | 7320.9 | 7430.0 | 7519.2 | 7609.1 | 7692.1 | 7775.7 | 7905.8 |
| 15°   | 7220.0 | 7327.5 | 7479.6 | 7631.8 | 7726.4 | 7821.0 | 7844.2 | 7867.5 | 7856.2 | 7844.9 | 7907.1 |
| 17.5° | 7516.7 | 7675.1 | 7876.6 | 8078.1 | 8154.2 | 8230.5 | 8157.9 | 8085.0 | 7948.0 | 7810.9 | 7788.3 |
| 20°   | 7701.5 | 7895.8 | 8125.9 | 8356.3 | 8391.8 | 8427.0 | 8274.5 | 8122.1 | 7883.8 | 7645.9 | 7539.0 |
| 22.5° | 7713.2 | 7913.1 | 8133.1 | 8353.1 | 8332.1 | 8310.7 | 8112.4 | 7914.0 | 7641.8 | 7370.2 | 7212.1 |
| 25°   | 7538.1 | 7716.0 | 7896.1 | 8076.5 | 8003.9 | 7931.0 | 7735.8 | 7540.6 | 7296.1 | 7051.8 | 6869.5 |
| 27.5° | 7200.8 | 7338.8 | 7467.1 | 7595.6 | 7514.2 | 7433.1 | 7276.6 | 7120.0 | 6919.5 | 6718.6 | 6542.6 |
| 30°   | 6795.0 | 6893.7 | 6991.8 | 7089.5 | 7023.5 | 6957.5 | 6827.4 | 6697.6 | 6531.0 | 6364.4 | 6224.2 |
| 32.5° | 6406.2 | 6485.1 | 6575.3 | 6665.2 | 6591.7 | 6518.4 | 6393.6 | 6269.2 | 6135.9 | 6002.9 | 5920.3 |
| 35°   | 6074.6 | 6147.5 | 6211.3 | 6275.5 | 6187.4 | 6099.4 | 5975.9 | 5852.7 | 5751.5 | 5650.0 | 5627.0 |
| 37.5° | 5792.7 | 5859.6 | 5889.2 | 5918.7 | 5809.9 | 5701.2 | 5578.0 | 5455.1 | 5382.5 | 5309.5 | 5334.7 |
| 40°   | 5528.6 | 5585.5 | 5578.6 | 5571.4 | 5446.0 | 5320.9 | 5202.0 | 5083.2 | 5030.7 | 4978.2 | 5035.1 |
| 42.5° | 5262.4 | 5310.5 | 5274.3 | 5238.2 | 5103.0 | 4967.9 | 4855.0 | 4742.5 | 4699.4 | 4656.7 | 4732.1 |
| 45°   | 5004.6 | 5048.0 | 4996.2 | 4944.3 | 4804.1 | 4663.9 | 4557.1 | 4450.2 | 4413.7 | 4377.9 | 4451.1 |
| 47.5° | 4791.5 | 4821.7 | 4762.0 | 4702.3 | 4564.0 | 4425.7 | 4321.3 | 4216.6 | 4183.0 | 4149.1 | 4210.7 |
| 50°   | 4643.2 | 4645.1 | 4568.4 | 4491.7 | 4367.8 | 4244.0 | 4145.6 | 4046.9 | 3993.8 | 3941.0 | 3995.4 |
| 52.5° | 4545.1 | 4528.8 | 4437.9 | 4347.1 | 4231.4 | 4116.1 | 4025.8 | 3935.3 | 3856.1 | 3776.6 | 3830.3 |
| 55°   | 4463.4 | 4440.8 | 4344.3 | 4248.1 | 4147.2 | 4046.0 | 3948.5 | 3851.1 | 3738.6 | 3625.7 | 3710.9 |
| 57.5° | 4383.2 | 4360.3 | 4263.5 | 4166.3 | 4066.1 | 3966.1 | 3851.7 | 3737.3 | 3616.0 | 3494.6 | 3619.1 |
| 60°   | 4270.1 | 4244.9 | 4147.5 | 4050.0 | 3948.2 | 3846.7 | 3715.3 | 3583.9 | 3477.7 | 3371.1 | 3532.7 |
| 62.5° | 4094.1 | 4069.9 | 3980.6 | 3891.3 | 3782.9 | 3674.4 | 3521.0 | 3368.0 | 3300.4 | 3232.8 | 3434.3 |
| 65°   | 3854.9 | 3830.0 | 3751.4 | 3672.9 | 3569.1 | 3465.4 | 3301.0 | 3136.9 | 3111.2 | 3085.1 | 3299.8 |
| 67.5° | 3583.0 | 3558.8 | 3490.9 | 3423.0 | 3324.9 | 3226.5 | 3074.7 | 2923.2 | 2931.4 | 2939.5 | 3118.1 |
| 70°   | 3292.2 | 3269.0 | 3207.7 | 3146.4 | 3061.5 | 2976.6 | 2843.4 | 2710.1 | 2738.4 | 2766.7 | 2893.7 |
| 72.5° | 2967.2 | 2939.5 | 2879.5 | 2819.5 | 2742.8 | 2666.1 | 2561.4 | 2456.4 | 2497.6 | 2539.1 | 2626.2 |
| 75°   | 2583.7 | 2554.8 | 2500.1 | 2445.4 | 2376.0 | 2306.5 | 2228.5 | 2150.6 | 2190.5 | 2230.1 | 2297.4 |
| 77.5° | 2214.7 | 2187.7 | 2130.5 | 2073.0 | 2013.2 | 1953.5 | 1890.3 | 1826.8 | 1867.1 | 1907.3 | 1961.1 |
| 80°   | 1787.2 | 1751.4 | 1708.0 | 1664.3 | 1614.0 | 1563.8 | 1511.3 | 1458.5 | 1492.4 | 1526.0 | 1571.3 |
| 82.5° | 1300.0 | 1239.1 | 1146.0 | 1053.0 | 1070.6 | 1088.2 | 1092.6 | 1097.0 | 1120.9 | 1144.8 | 1166.8 |
| 85°   | 789.0  | 713.5  | 626.1  | 539.1  | 587.8  | 636.5  | 659.4  | 682.1  | 708.8  | 735.5  | 759.1  |
| 87.5° | 344.2  | 313.7  | 276.9  | 240.5  | 277.9  | 315.0  | 315.9  | 316.8  | 321.9  | 326.9  | 336.3  |
| 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: P954481

CATALOG NUMBER: GALN-SB7D-722-U-SLR

**CANDELA DISTRIBUTION (continued):**

|       | 220°   | 225°   | 230°   | 235°   | 240°   | 245°   | 250°    | 255°    | 260°    | 265°    | 270°    |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0°    | 8191.3 | 8191.3 | 8191.3 | 8191.3 | 8191.3 | 8191.3 | 8191.3  | 8191.3  | 8191.3  | 8191.3  | 8191.3  |
| 2.5°  | 8105.8 | 8180.2 | 8247.2 | 8316.4 | 8385.5 | 8457.8 | 8530.1  | 8601.8  | 8673.7  | 8741.3  | 8808.9  |
| 5°    | 8034.1 | 8164.5 | 8296.5 | 8436.4 | 8576.3 | 8725.9 | 8875.8  | 9024.5  | 9173.5  | 9322.8  | 9472.1  |
| 7.5°  | 8008.3 | 8177.1 | 8357.2 | 8552.4 | 8747.6 | 8969.2 | 9190.8  | 9418.4  | 9645.9  | 9892.1  | 10138.5 |
| 10°   | 8020.9 | 8202.3 | 8424.5 | 8655.8 | 8886.5 | 9155.9 | 9425.0  | 9725.5  | 10026.3 | 10337.8 | 10649.3 |
| 12.5° | 8036.6 | 8205.4 | 8438.9 | 8700.1 | 8961.3 | 9278.8 | 9596.3  | 9937.0  | 10277.7 | 10619.7 | 10962.0 |
| 15°   | 7969.7 | 8104.8 | 8363.5 | 8665.9 | 8968.3 | 9333.8 | 9699.4  | 10069.0 | 10438.7 | 10795.4 | 11152.2 |
| 17.5° | 7765.3 | 7848.6 | 8152.9 | 8516.6 | 8880.2 | 9304.6 | 9728.9  | 10132.2 | 10535.5 | 10897.3 | 11259.0 |
| 20°   | 7432.2 | 7454.2 | 7808.4 | 8259.1 | 8709.9 | 9224.1 | 9738.3  | 10181.5 | 10624.7 | 11001.0 | 11376.9 |
| 22.5° | 7054.0 | 7011.0 | 7414.2 | 7957.1 | 8499.9 | 9125.4 | 9750.9  | 10248.2 | 10745.1 | 11129.5 | 11513.6 |
| 25°   | 6687.2 | 6570.9 | 6984.3 | 7619.8 | 8255.7 | 9028.0 | 9800.6  | 10368.9 | 10936.9 | 11313.1 | 11689.7 |
| 27.5° | 6366.6 | 6225.2 | 6601.4 | 7311.5 | 8021.5 | 8962.9 | 9904.3  | 10557.5 | 11210.3 | 11569.6 | 11928.5 |
| 30°   | 6084.7 | 5973.7 | 6289.6 | 7053.7 | 7817.8 | 8932.4 | 10046.4 | 10801.7 | 11557.0 | 11903.7 | 12250.7 |
| 32.5° | 5837.6 | 5788.3 | 6042.9 | 6831.5 | 7619.8 | 8894.7 | 10169.0 | 11056.6 | 11944.3 | 12287.5 | 12631.1 |
| 35°   | 5604.4 | 5624.8 | 5837.0 | 6613.0 | 7389.1 | 8823.7 | 10258.9 | 11347.1 | 12435.2 | 12764.3 | 13093.1 |
| 37.5° | 5359.8 | 5434.6 | 5620.1 | 6355.9 | 7091.7 | 8702.0 | 10312.3 | 11672.4 | 13032.4 | 13451.8 | 13871.1 |
| 40°   | 5092.0 | 5206.8 | 5374.9 | 6049.1 | 6723.4 | 8534.5 | 10345.9 | 12085.4 | 13824.5 | 14435.6 | 15046.6 |
| 42.5° | 4807.6 | 4952.2 | 5107.1 | 5710.6 | 6314.1 | 8361.6 | 10409.7 | 12625.7 | 14841.7 | 15723.7 | 16605.7 |
| 45°   | 4524.7 | 4664.5 | 4821.7 | 5351.0 | 5880.3 | 8201.0 | 10522.0 | 13336.7 | 16151.5 | 17341.2 | 18530.9 |
| 47.5° | 4272.3 | 4392.7 | 4595.4 | 5066.6 | 5537.7 | 8068.4 | 10599.0 | 14094.2 | 17589.5 | 19264.2 | 20938.6 |
| 50°   | 4050.0 | 4189.9 | 4456.5 | 4877.7 | 5298.9 | 7923.8 | 10548.7 | 14797.1 | 19045.4 | 21570.1 | 24094.4 |
| 52.5° | 3884.4 | 4079.9 | 4386.4 | 4753.2 | 5120.3 | 7679.5 | 10239.1 | 15253.5 | 20267.5 | 23992.3 | 27717.0 |
| 55°   | 3796.4 | 4090.9 | 4376.0 | 4663.0 | 4950.0 | 7274.7 | 9599.4  | 15152.9 | 20706.0 | 26139.7 | 31573.7 |
| 57.5° | 3743.6 | 4101.9 | 4353.4 | 4556.1 | 4758.8 | 6703.9 | 8648.6  | 14445.0 | 20241.8 | 27661.7 | 35081.6 |
| 60°   | 3693.9 | 4067.3 | 4233.3 | 4392.7 | 4552.0 | 5962.7 | 7373.4  | 13127.7 | 18882.0 | 28042.0 | 37201.7 |
| 62.5° | 3636.1 | 3982.5 | 4002.9 | 4108.5 | 4214.4 | 5075.7 | 5936.9  | 11346.4 | 16755.9 | 26440.5 | 36125.1 |
| 65°   | 3514.1 | 3778.2 | 3775.6 | 3825.6 | 3875.6 | 4277.6 | 4679.6  | 9529.0  | 14378.7 | 24174.6 | 33970.4 |
| 67.5° | 3296.6 | 3445.0 | 3451.9 | 3424.2 | 3396.3 | 3510.7 | 3624.8  | 7748.7  | 11872.6 | 21478.0 | 31083.4 |
| 70°   | 3020.6 | 3069.4 | 3069.4 | 2940.2 | 2810.7 | 2778.3 | 2745.6  | 6101.0  | 9456.4  | 18535.6 | 27614.8 |
| 72.5° | 2713.2 | 2712.6 | 2681.8 | 2498.6 | 2315.0 | 2216.3 | 2117.9  | 4664.2  | 7210.6  | 15345.9 | 23481.5 |
| 75°   | 2364.3 | 2376.3 | 2234.2 | 2028.6 | 1823.1 | 1733.8 | 1644.5  | 3385.3  | 5126.0  | 11689.3 | 18252.7 |
| 77.5° | 2014.8 | 2021.1 | 1786.9 | 1587.3 | 1387.7 | 1326.8 | 1266.1  | 2293.9  | 3321.8  | 8181.5  | 13041.3 |
| 80°   | 1616.2 | 1617.2 | 1337.4 | 1168.7 | 999.5  | 974.4  | 949.3   | 1477.9  | 2007.0  | 5271.2  | 8535.4  |
| 82.5° | 1188.8 | 1175.6 | 936.7  | 812.2  | 687.7  | 682.7  | 678.3   | 909.0   | 1140.4  | 3050.8  | 4961.6  |
| 85°   | 782.7  | 765.4  | 587.8  | 496.6  | 405.5  | 408.0  | 410.2   | 485.9   | 562.0   | 1372.3  | 2183.0  |
| 87.5° | 345.8  | 323.8  | 249.9  | 212.5  | 175.4  | 177.6  | 179.8   | 201.5   | 223.2   | 449.5   | 675.8   |
| 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: P954481

CATALOG NUMBER: GALN-SB7D-722-U-SLR

**CANDELA DISTRIBUTION (continued):**

|       | 275°    | 280°    | 285°    | 290°    | 295°    | 300°    | 305°    | 310°    | 315°    | 320°    | 325°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 8191.3  | 8191.3  | 8191.3  | 8191.3  | 8191.3  | 8191.3  | 8191.3  | 8191.3  | 8191.3  | 8191.3  | 8191.3  |
| 2.5°  | 8842.2  | 8875.8  | 8923.3  | 8970.8  | 8999.1  | 9027.3  | 9041.5  | 9055.6  | 9049.4  | 9055.6  | 9041.5  |
| 5°    | 9588.7  | 9705.7  | 9821.3  | 9937.3  | 10000.2 | 10063.0 | 10101.1 | 10139.4 | 10168.3 | 10139.4 | 10101.1 |
| 7.5°  | 10328.3 | 10517.9 | 10688.5 | 10859.2 | 10962.0 | 11064.8 | 11120.4 | 11175.7 | 11202.5 | 11175.7 | 11120.4 |
| 10°   | 10873.7 | 11098.1 | 11298.3 | 11498.6 | 11619.9 | 11740.6 | 11794.6 | 11848.4 | 11868.8 | 11848.4 | 11794.6 |
| 12.5° | 11205.3 | 11448.3 | 11629.3 | 11809.7 | 11897.7 | 11985.8 | 12015.3 | 12044.8 | 12048.0 | 12044.8 | 12015.3 |
| 15°   | 11362.1 | 11571.8 | 11685.3 | 11799.0 | 11802.2 | 11805.3 | 11773.9 | 11742.5 | 11705.4 | 11742.5 | 11773.9 |
| 17.5° | 11400.8 | 11542.6 | 11544.8 | 11546.6 | 11419.3 | 11292.0 | 11175.4 | 11058.5 | 10976.1 | 11058.5 | 11175.4 |
| 20°   | 11426.3 | 11475.9 | 11326.6 | 11177.3 | 10896.3 | 10615.3 | 10410.7 | 10206.1 | 10080.3 | 10206.1 | 10410.7 |
| 22.5° | 11448.9 | 11384.1 | 11074.8 | 10765.6 | 10352.2 | 9938.9  | 9683.0  | 9427.2  | 9288.2  | 9427.2  | 9683.0  |
| 25°   | 11485.4 | 11281.0 | 10811.4 | 10341.8 | 9839.9  | 9337.9  | 9068.8  | 8800.4  | 8669.0  | 8800.4  | 9068.8  |
| 27.5° | 11563.3 | 11197.7 | 10575.7 | 9954.0  | 9397.6  | 8841.3  | 8576.6  | 8312.3  | 8188.1  | 8312.3  | 8576.6  |
| 30°   | 11706.0 | 11161.6 | 10395.9 | 9630.2  | 9050.6  | 8471.0  | 8225.5  | 7980.0  | 7864.4  | 7980.0  | 8225.5  |
| 32.5° | 11885.2 | 11139.6 | 10273.3 | 9407.1  | 8862.3  | 8317.6  | 8124.9  | 7931.9  | 7848.6  | 7931.9  | 8124.9  |
| 35°   | 12180.3 | 11267.8 | 10365.1 | 9462.7  | 9084.2  | 8706.1  | 8661.2  | 8616.2  | 8609.3  | 8616.2  | 8661.2  |
| 37.5° | 12797.3 | 11723.6 | 10903.2 | 10082.8 | 10058.3 | 10033.8 | 10239.4 | 10444.9 | 10551.8 | 10444.9 | 10239.4 |
| 40°   | 13878.9 | 12711.2 | 12101.1 | 11491.0 | 11921.6 | 12352.3 | 12852.0 | 13351.8 | 13600.7 | 13351.8 | 12852.0 |
| 42.5° | 15447.1 | 14288.5 | 13937.1 | 13585.7 | 14524.9 | 15464.1 | 16373.1 | 17282.1 | 17815.8 | 17282.1 | 16373.1 |
| 45°   | 17490.2 | 16449.1 | 16294.2 | 16138.9 | 17643.6 | 19148.5 | 20642.2 | 22136.2 | 23043.0 | 22136.2 | 20642.2 |
| 47.5° | 19926.2 | 18913.4 | 18882.0 | 18850.6 | 21021.3 | 23191.4 | 25378.1 | 27564.5 | 28848.5 | 27564.5 | 25378.1 |
| 50°   | 22843.7 | 21593.3 | 21598.7 | 21604.0 | 24401.5 | 27199.0 | 30085.4 | 32971.8 | 34716.9 | 32971.8 | 30085.4 |
| 52.5° | 26202.6 | 24688.5 | 24535.4 | 24382.0 | 27723.6 | 31065.1 | 34636.5 | 38207.5 | 40299.3 | 38207.5 | 34636.5 |
| 55°   | 30077.5 | 28581.4 | 27984.5 | 27387.6 | 31106.6 | 34825.4 | 39082.9 | 43340.4 | 45828.3 | 43340.4 | 39082.9 |
| 57.5° | 34266.8 | 33451.8 | 32254.5 | 31057.6 | 34812.8 | 38568.0 | 43390.4 | 48212.4 | 51297.5 | 48212.4 | 43390.4 |
| 60°   | 38467.1 | 39732.9 | 38246.2 | 36759.4 | 40313.1 | 43866.9 | 49029.9 | 54193.0 | 57527.3 | 54193.0 | 49029.9 |
| 62.5° | 39583.0 | 43040.8 | 42873.3 | 42705.5 | 45960.9 | 49216.7 | 54128.9 | 59040.8 | 62122.7 | 59040.8 | 54128.9 |
| 65°   | 37215.8 | 40461.2 | 41103.4 | 41745.2 | 45882.3 | 50019.7 | 54783.0 | 59545.9 | 62169.9 | 59545.9 | 54783.0 |
| 67.5° | 34170.0 | 37256.7 | 37557.8 | 37858.6 | 42169.2 | 46479.5 | 51263.2 | 56046.9 | 58102.6 | 56046.9 | 51263.2 |
| 70°   | 30972.1 | 34329.7 | 34464.2 | 34599.1 | 38453.9 | 42308.5 | 46425.2 | 50541.5 | 51684.1 | 50541.5 | 46425.2 |
| 72.5° | 27334.1 | 31187.1 | 31283.9 | 31380.4 | 34396.3 | 37412.3 | 40495.5 | 43578.3 | 43694.0 | 43578.3 | 40495.5 |
| 75°   | 22240.2 | 26227.7 | 26585.7 | 26943.7 | 29290.2 | 31636.6 | 33807.0 | 35977.4 | 35395.9 | 35977.4 | 33807.0 |
| 77.5° | 16763.5 | 20486.0 | 20998.3 | 21510.7 | 23294.5 | 25078.2 | 26617.5 | 28157.0 | 27157.5 | 28157.0 | 26617.5 |
| 80°   | 11667.0 | 14798.3 | 15435.1 | 16072.0 | 17419.1 | 18765.7 | 19574.1 | 20382.3 | 18774.5 | 20382.3 | 19574.1 |
| 82.5° | 7102.4  | 9243.6  | 9954.9  | 10666.5 | 11593.8 | 12521.0 | 12858.3 | 13195.3 | 11931.7 | 13195.3 | 12858.3 |
| 85°   | 3319.2  | 4455.5  | 5060.6  | 5665.7  | 6427.6  | 7189.2  | 7380.6  | 7572.0  | 6559.9  | 7572.0  | 7380.6  |
| 87.5° | 1057.7  | 1439.6  | 1777.2  | 2114.8  | 2495.7  | 2876.7  | 2893.0  | 2909.1  | 2442.3  | 2909.1  | 2893.0  |
| 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: P954481

CATALOG NUMBER: GALN-SB7D-722-U-SLR

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|-------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 8191.3  | 8191.3  | 8191.3  | 8191.3  | 8191.3  | 8191.3  | 8191.3  |
| 2.5°  | 9027.3  | 8999.1  | 8970.8  | 8923.3  | 8875.8  | 8842.2  | 8808.9  |
| 5°    | 10063.0 | 10000.2 | 9937.3  | 9821.3  | 9705.7  | 9588.7  | 9472.1  |
| 7.5°  | 11064.8 | 10962.0 | 10859.2 | 10688.5 | 10517.9 | 10328.3 | 10138.5 |
| 10°   | 11740.6 | 11619.9 | 11498.6 | 11298.3 | 11098.1 | 10873.7 | 10649.3 |
| 12.5° | 11985.8 | 11897.7 | 11809.7 | 11629.3 | 11448.3 | 11205.3 | 10962.0 |
| 15°   | 11805.3 | 11802.2 | 11799.0 | 11685.3 | 11571.8 | 11362.1 | 11152.2 |
| 17.5° | 11292.0 | 11419.3 | 11546.6 | 11544.8 | 11542.6 | 11400.8 | 11259.0 |
| 20°   | 10615.3 | 10896.3 | 11177.3 | 11326.6 | 11475.9 | 11426.3 | 11376.9 |
| 22.5° | 9938.9  | 10352.2 | 10765.6 | 11074.8 | 11384.1 | 11448.9 | 11513.6 |
| 25°   | 9337.9  | 9839.9  | 10341.8 | 10811.4 | 11281.0 | 11485.4 | 11689.7 |
| 27.5° | 8841.3  | 9397.6  | 9954.0  | 10575.7 | 11197.7 | 11563.3 | 11928.5 |
| 30°   | 8471.0  | 9050.6  | 9630.2  | 10395.9 | 11161.6 | 11706.0 | 12250.7 |
| 32.5° | 8317.6  | 8862.3  | 9407.1  | 10273.3 | 11139.6 | 11885.2 | 12631.1 |
| 35°   | 8706.1  | 9084.2  | 9462.7  | 10365.1 | 11267.8 | 12180.3 | 13093.1 |
| 37.5° | 10033.8 | 10058.3 | 10082.8 | 10903.2 | 11723.6 | 12797.3 | 13871.1 |
| 40°   | 12352.3 | 11921.6 | 11491.0 | 12101.1 | 12711.2 | 13878.9 | 15046.6 |
| 42.5° | 15464.1 | 14524.9 | 13585.7 | 13937.1 | 14288.5 | 15447.1 | 16605.7 |
| 45°   | 19148.5 | 17643.6 | 16138.9 | 16294.2 | 16449.1 | 17490.2 | 18530.9 |
| 47.5° | 23191.4 | 21021.3 | 18850.6 | 18882.0 | 18913.4 | 19926.2 | 20938.6 |
| 50°   | 27199.0 | 24401.5 | 21604.0 | 21598.7 | 21593.3 | 22843.7 | 24094.4 |
| 52.5° | 31065.1 | 27723.6 | 24382.0 | 24535.4 | 24688.5 | 26202.6 | 27717.0 |
| 55°   | 34825.4 | 31106.6 | 27387.6 | 27984.5 | 28581.4 | 30077.5 | 31573.7 |
| 57.5° | 38568.0 | 34812.8 | 31057.6 | 32254.5 | 33451.8 | 34266.8 | 35081.6 |
| 60°   | 43866.9 | 40313.1 | 36759.4 | 38246.2 | 39732.9 | 38467.1 | 37201.7 |
| 62.5° | 49216.7 | 45960.9 | 42705.5 | 42873.3 | 43040.8 | 39583.0 | 36125.1 |
| 65°   | 50019.7 | 45882.3 | 41745.2 | 41103.4 | 40461.2 | 37215.8 | 33970.4 |
| 67.5° | 46479.5 | 42169.2 | 37858.6 | 37557.8 | 37256.7 | 34170.0 | 31083.4 |
| 70°   | 42308.5 | 38453.9 | 34599.1 | 34464.2 | 34329.7 | 30972.1 | 27614.8 |
| 72.5° | 37412.3 | 34396.3 | 31380.4 | 31283.9 | 31187.1 | 27334.1 | 23481.5 |
| 75°   | 31636.6 | 29290.2 | 26943.7 | 26585.7 | 26227.7 | 22240.2 | 18252.7 |
| 77.5° | 25078.2 | 23294.5 | 21510.7 | 20998.3 | 20486.0 | 16763.5 | 13041.3 |
| 80°   | 18765.7 | 17419.1 | 16072.0 | 15435.1 | 14798.3 | 11667.0 | 8535.4  |
| 82.5° | 12521.0 | 11593.8 | 10666.5 | 9954.9  | 9243.6  | 7102.4  | 4961.6  |
| 85°   | 7189.2  | 6427.6  | 5665.7  | 5060.6  | 4455.5  | 3319.2  | 2183.0  |
| 87.5° | 2876.7  | 2495.7  | 2114.8  | 1777.2  | 1439.6  | 1057.7  | 675.8   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)