

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: P939368

Luminaire Tested: **GALN-SB1D-935-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939368  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1D-935-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 3500K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD  
THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

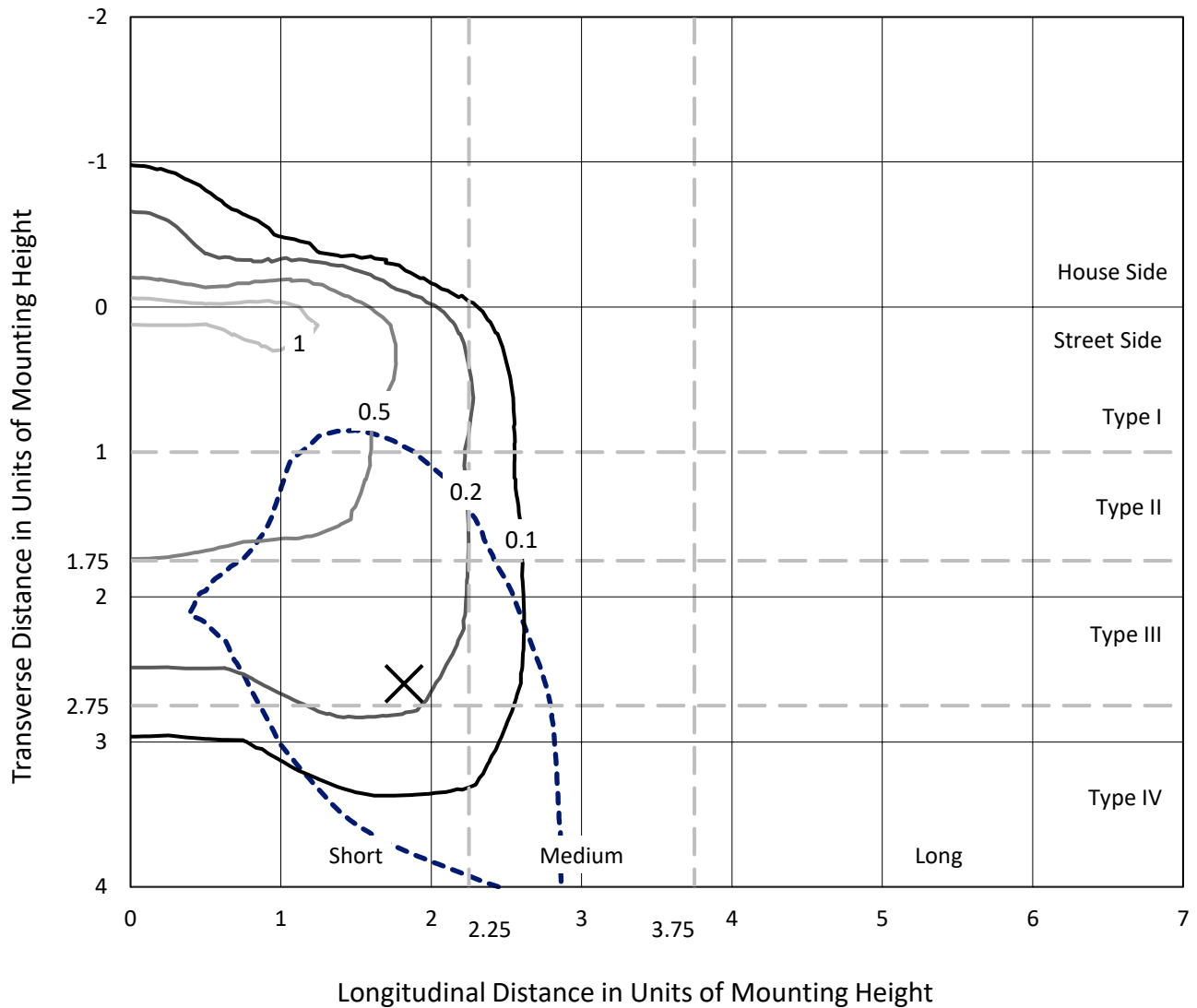
Lumens per Lamp: N/A  
Luminaire Lumens: 5362 lumens  
Efficiency: N/A  
Efficacy: 67.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P939368  
 CATALOG NUMBER: GALN-SB1D-935-U-T4FT-HSS

### Iso-Footcandle Lines of Horizontal Illumination

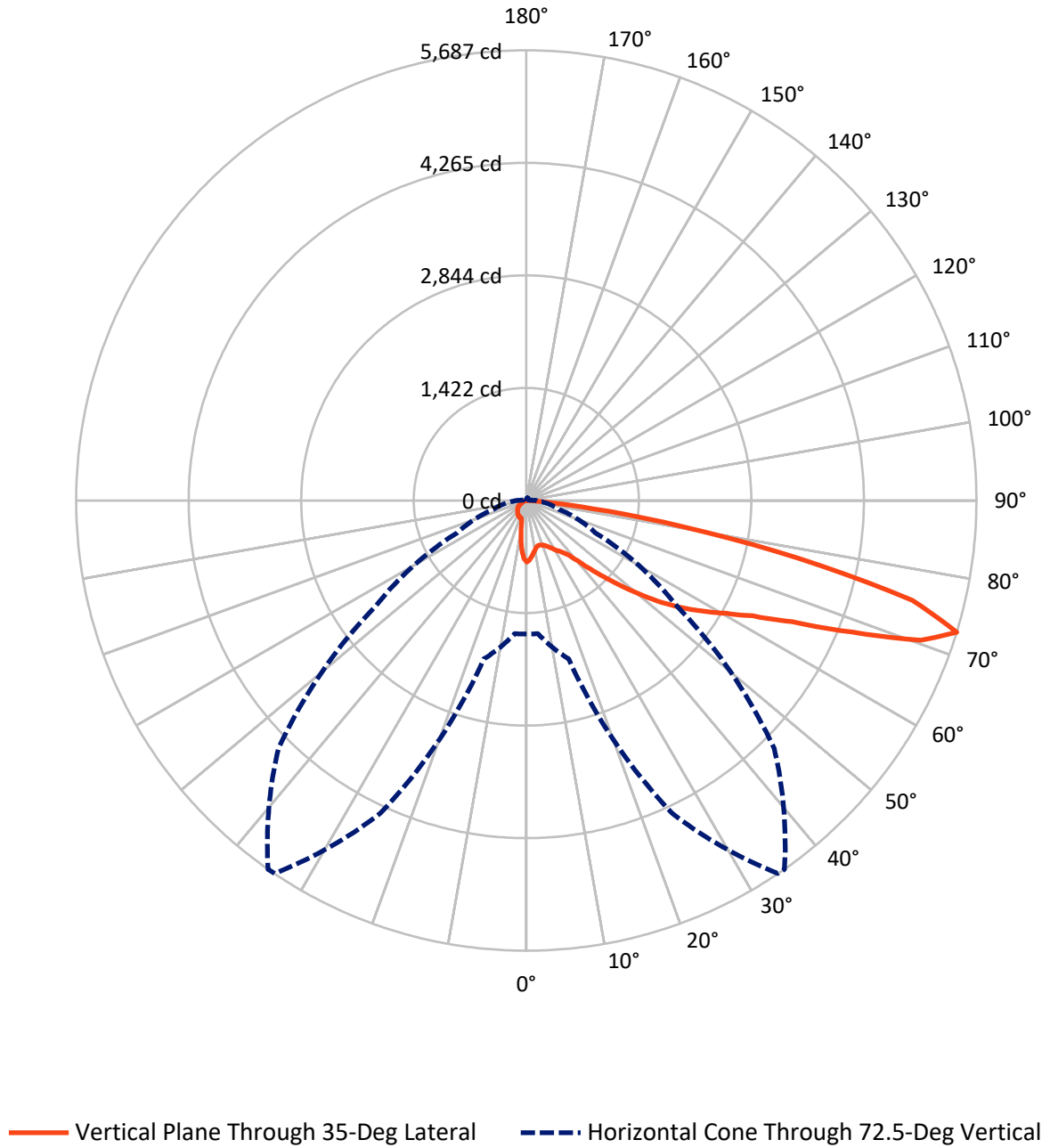
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc  
 Type IV - Short - N/A

REPORT NUMBER: P939368  
CATALOG NUMBER: GALN-SB1D-935-U-T4FT-HSS

### Luminous Intensity Polar Plot



REPORT NUMBER: P939368  
 CATALOG NUMBER: GALN-SB1D-935-U-T4FT-HSS

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 603.5    | 0.0    | 603.5  |
|                    | % Fixture | 11.3     | 0.0    | 11.3   |
| <b>Street Side</b> | Lumens    | 4758.5   | 0.0    | 4758.5 |
|                    | % Fixture | 88.7     | 0.0    | 88.7   |
| <b>Total</b>       | Lumens    | 5362.0   | 0.0    | 5362.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 63.9   | 1.2       |
| 10°-20°   | 149.4  | 2.8       |
| 20°-30°   | 242.7  | 4.5       |
| 30°-40°   | 404.9  | 7.6       |
| 40°-50°   | 766.1  | 14.3      |
| 50°-60°   | 1217.3 | 22.7      |
| 60°-70°   | 1505.9 | 28.1      |
| 70°-80°   | 936.1  | 17.5      |
| 80°-90°   | 75.7   | 1.4       |
| 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°    | 5362.0 | 100.0     |
| 0°-180°   | 5362.0 | 100.0     |

**Coefficient of Utilization**



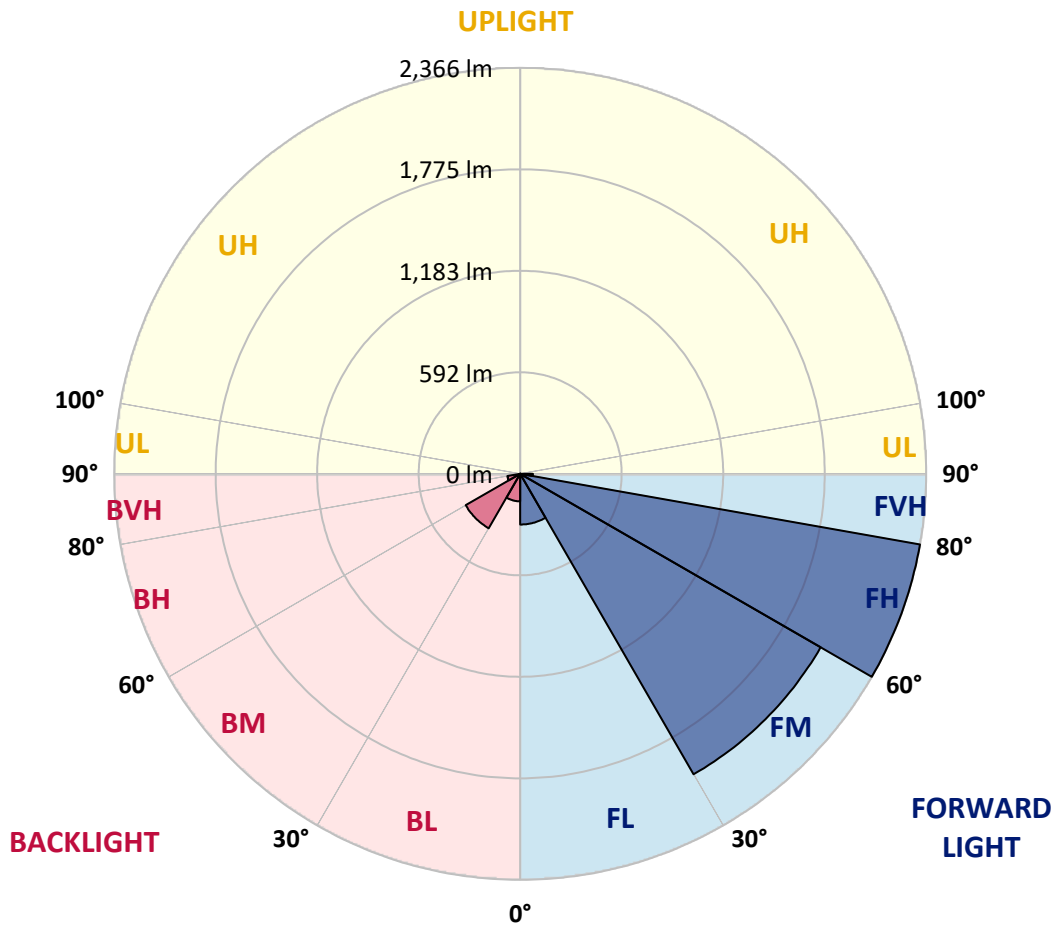
REPORT NUMBER: P939368  
 CATALOG NUMBER: GALN-SB1D-935-U-T4FT-HSS

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 295.6  | 5.5       |                         |      |         |
| FM (30°-60°)   | 2022.0 | 37.7      |                         |      |         |
| FH (60°-80°)   | 2366.3 | 44.1      |                         |      | G2/5000 |
| FVH (80°-90°)  | 74.6   | 1.4       |                         |      | G1/100  |
| BL (0°-30°)    | 160.4  | 3.0       | B1/500                  |      |         |
| BM (30°-60°)   | 366.4  | 6.8       | B1/1000                 |      |         |
| BH (60°-80°)   | 75.7   | 1.4       | B0/110                  |      | G0/110  |
| BVH (80°-90°)  | 1.0    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type IV Short



REPORT NUMBER: P939368  
 CATALOG NUMBER: GALN-SB1D-935-U-T4FT-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 34°    | 35°    | 45°    | 55°    | 65°    | 75°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 777.1  | 777.1  | 777.1  | 777.1  | 777.1  | 777.1  | 777.1  | 777.1  | 777.1  | 777.1  |
| 2.5°  | 742.6  | 748.8  | 750.0  | 752.0  | 752.0  | 754.3  | 758.3  | 763.8  | 772.8  | 777.5  |
| 5°    | 684.4  | 689.1  | 695.0  | 699.7  | 708.8  | 709.9  | 725.3  | 740.2  | 761.0  | 776.7  |
| 7.5°  | 625.9  | 631.4  | 639.2  | 650.6  | 662.4  | 665.9  | 689.1  | 714.3  | 747.3  | 776.7  |
| 10°   | 584.6  | 585.0  | 592.1  | 603.5  | 622.3  | 626.7  | 654.9  | 690.7  | 732.0  | 772.0  |
| 12.5° | 561.4  | 564.2  | 567.3  | 576.0  | 594.0  | 596.8  | 627.1  | 669.1  | 716.6  | 769.3  |
| 15°   | 561.4  | 563.4  | 565.4  | 569.7  | 584.2  | 586.6  | 613.3  | 655.3  | 708.8  | 770.5  |
| 17.5° | 567.3  | 570.5  | 568.9  | 574.0  | 589.3  | 590.9  | 614.5  | 651.4  | 708.4  | 777.9  |
| 20°   | 581.5  | 583.8  | 580.7  | 583.8  | 599.2  | 602.3  | 626.7  | 658.9  | 715.1  | 790.9  |
| 22.5° | 603.9  | 605.0  | 597.6  | 599.9  | 615.7  | 619.6  | 647.9  | 680.1  | 731.2  | 811.7  |
| 25°   | 632.2  | 634.5  | 623.1  | 625.9  | 640.8  | 645.5  | 678.1  | 711.9  | 756.7  | 840.4  |
| 27.5° | 664.8  | 665.9  | 656.1  | 655.7  | 675.0  | 681.7  | 714.7  | 751.2  | 790.9  | 876.5  |
| 30°   | 702.1  | 705.6  | 696.2  | 694.6  | 719.0  | 724.5  | 757.1  | 799.5  | 841.2  | 930.8  |
| 32.5° | 731.6  | 734.3  | 728.8  | 732.7  | 757.5  | 761.8  | 808.6  | 867.9  | 920.1  | 1007.8 |
| 35°   | 774.0  | 775.6  | 763.0  | 770.1  | 798.3  | 809.4  | 878.9  | 963.8  | 1019.5 | 1104.4 |
| 37.5° | 927.6  | 927.6  | 874.2  | 839.2  | 866.3  | 876.1  | 975.1  | 1084.4 | 1142.1 | 1234.1 |
| 40°   | 1140.2 | 1136.6 | 1058.4 | 986.9  | 983.4  | 1002.7 | 1112.3 | 1236.4 | 1300.5 | 1389.6 |
| 42.5° | 1366.9 | 1361.4 | 1254.9 | 1184.2 | 1172.4 | 1179.1 | 1270.6 | 1423.8 | 1489.0 | 1579.4 |
| 45°   | 1568.0 | 1566.4 | 1469.0 | 1373.9 | 1352.7 | 1373.9 | 1468.2 | 1643.1 | 1689.8 | 1784.9 |
| 47.5° | 1736.6 | 1736.6 | 1665.5 | 1603.4 | 1592.4 | 1604.9 | 1735.8 | 1886.3 | 1881.9 | 2003.7 |
| 50°   | 1930.7 | 1929.1 | 1861.5 | 1834.8 | 1846.2 | 1863.9 | 2043.8 | 2142.4 | 2080.7 | 2218.6 |
| 52.5° | 2066.6 | 2076.0 | 2052.8 | 2048.5 | 2106.7 | 2137.3 | 2356.5 | 2393.1 | 2258.7 | 2422.6 |
| 55°   | 2174.2 | 2185.2 | 2212.0 | 2242.2 | 2354.2 | 2394.3 | 2659.5 | 2630.8 | 2407.6 | 2599.4 |
| 57.5° | 2326.7 | 2311.0 | 2352.2 | 2411.9 | 2593.1 | 2641.4 | 2953.0 | 2855.1 | 2527.5 | 2742.8 |
| 60°   | 2511.7 | 2514.1 | 2521.2 | 2596.6 | 2831.5 | 2893.6 | 3242.1 | 3067.3 | 2604.5 | 2830.8 |
| 62.5° | 2734.1 | 2737.6 | 2752.2 | 2868.1 | 3151.8 | 3210.3 | 3550.1 | 3240.9 | 2639.8 | 2806.0 |
| 65°   | 2718.8 | 2733.7 | 2896.0 | 3292.4 | 3638.5 | 3696.3 | 3909.6 | 3362.7 | 2586.4 | 2579.7 |
| 67.5° | 2476.8 | 2501.1 | 2772.6 | 3799.2 | 4372.5 | 4436.9 | 4344.2 | 3386.7 | 2355.8 | 2006.1 |
| 70°   | 2159.3 | 2168.0 | 2494.4 | 4255.0 | 5222.3 | 5287.5 | 4733.1 | 3123.1 | 1787.6 | 1118.9 |
| 72.5° | 1686.3 | 1688.2 | 2071.3 | 4360.7 | 5683.5 | 5687.1 | 4427.9 | 2318.4 | 961.4  | 429.8  |
| 75°   | 1204.6 | 1192.8 | 1387.3 | 3536.4 | 5000.3 | 5040.4 | 3319.5 | 1087.5 | 367.4  | 203.1  |
| 77.5° | 645.9  | 658.9  | 785.0  | 2097.2 | 3454.3 | 3522.6 | 1811.2 | 313.5  | 187.0  | 138.3  |
| 80°   | 199.6  | 210.6  | 321.8  | 960.2  | 1956.6 | 1997.8 | 671.4  | 139.5  | 130.4  | 98.6   |
| 82.5° | 62.9   | 65.2   | 150.1  | 403.5  | 812.1  | 831.0  | 194.5  | 79.0   | 89.2   | 65.2   |
| 85°   | 18.1   | 18.5   | 66.8   | 150.5  | 200.8  | 204.7  | 54.6   | 30.6   | 51.1   | 40.5   |
| 87.5° | 2.0    | 6.3    | 25.1   | 25.1   | 17.7   | 17.3   | 5.9    | 6.7    | 14.5   | 5.1    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

REPORT NUMBER: P939368  
 CATALOG NUMBER: GALN-SB1D-935-U-T4FT-HSS

**CANDELA DISTRIBUTION (continued):**

| 85°    |       | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  |
|--------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 777.1  | 0°    | 777.1  | 777.1  | 777.1 | 777.1 | 777.1 | 777.1 | 777.1 | 777.1 | 777.1 | 777.1 |
| 780.7  | 2.5°  | 778.7  | 779.1  | 774.0 | 765.3 | 755.9 | 748.1 | 738.2 | 730.4 | 724.9 | 723.3 |
| 787.7  | 5°    | 784.2  | 781.5  | 766.9 | 740.6 | 709.2 | 682.1 | 651.8 | 627.8 | 612.1 | 605.4 |
| 795.2  | 7.5°  | 792.5  | 784.6  | 752.8 | 700.9 | 640.8 | 587.4 | 533.1 | 491.1 | 464.4 | 451.0 |
| 802.3  | 10°   | 799.5  | 783.8  | 729.2 | 643.6 | 551.6 | 470.7 | 397.6 | 346.9 | 318.6 | 305.3 |
| 810.5  | 12.5° | 806.2  | 783.4  | 698.6 | 575.6 | 451.0 | 352.0 | 284.1 | 258.9 | 251.1 | 248.3 |
| 823.9  | 15°   | 818.8  | 784.6  | 660.1 | 497.8 | 350.8 | 266.0 | 241.2 | 240.8 | 242.4 | 241.6 |
| 844.3  | 17.5° | 836.1  | 785.8  | 616.4 | 415.3 | 270.7 | 234.6 | 233.4 | 236.9 | 239.3 | 238.1 |
| 869.9  | 20°   | 858.5  | 790.5  | 570.1 | 333.6 | 232.6 | 226.7 | 229.4 | 232.6 | 234.6 | 232.6 |
| 904.0  | 22.5° | 889.9  | 798.7  | 519.4 | 267.9 | 220.4 | 222.0 | 224.3 | 227.9 | 229.8 | 227.1 |
| 947.6  | 25°   | 928.4  | 811.7  | 469.5 | 233.0 | 214.5 | 216.5 | 220.0 | 223.9 | 226.3 | 223.6 |
| 1002.7 | 27.5° | 978.3  | 832.5  | 423.5 | 225.1 | 208.6 | 209.8 | 214.9 | 220.8 | 223.9 | 220.4 |
| 1080.8 | 30°   | 1050.6 | 866.7  | 383.9 | 228.7 | 205.1 | 202.3 | 209.4 | 217.7 | 221.2 | 218.1 |
| 1187.3 | 32.5° | 1146.4 | 915.0  | 359.5 | 234.2 | 203.5 | 193.7 | 200.4 | 211.0 | 216.9 | 214.9 |
| 1326.4 | 35°   | 1272.2 | 988.5  | 350.1 | 240.4 | 202.3 | 184.7 | 189.4 | 200.8 | 211.0 | 212.9 |
| 1501.6 | 37.5° | 1424.6 | 1090.7 | 352.8 | 243.2 | 198.8 | 177.2 | 179.6 | 189.4 | 202.7 | 209.0 |
| 1698.9 | 40°   | 1597.9 | 1209.7 | 368.5 | 240.4 | 194.9 | 170.9 | 171.3 | 178.8 | 190.6 | 200.0 |
| 1911.0 | 42.5° | 1776.6 | 1348.8 | 397.6 | 230.2 | 191.3 | 165.4 | 164.2 | 169.3 | 177.2 | 183.9 |
| 2122.8 | 45°   | 1946.8 | 1491.8 | 426.3 | 216.1 | 187.0 | 159.9 | 157.2 | 159.1 | 160.7 | 163.4 |
| 2329.0 | 47.5° | 2095.3 | 1592.4 | 418.0 | 203.1 | 181.1 | 153.6 | 148.9 | 148.1 | 143.4 | 143.0 |
| 2513.3 | 50°   | 2197.8 | 1614.4 | 371.3 | 190.2 | 172.5 | 146.5 | 139.1 | 134.4 | 126.1 | 122.2 |
| 2651.2 | 52.5° | 2230.4 | 1527.6 | 303.3 | 177.2 | 158.3 | 137.1 | 126.5 | 119.0 | 108.8 | 105.3 |
| 2730.6 | 55°   | 2187.2 | 1357.4 | 242.4 | 161.5 | 138.7 | 124.5 | 112.8 | 102.9 | 94.7  | 90.4  |
| 2739.2 | 57.5° | 2081.5 | 1140.9 | 191.7 | 143.0 | 117.9 | 110.4 | 98.6  | 88.8  | 81.7  | 77.4  |
| 2643.4 | 60°   | 1906.3 | 906.0  | 151.7 | 121.0 | 100.6 | 95.1  | 82.9  | 76.6  | 70.3  | 65.2  |
| 2395.8 | 62.5° | 1640.3 | 646.7  | 119.0 | 95.9  | 84.1  | 77.8  | 70.7  | 66.0  | 58.5  | 51.5  |
| 1950.7 | 65°   | 1280.0 | 395.6  | 91.9  | 70.3  | 67.6  | 64.4  | 60.1  | 55.8  | 46.8  | 39.7  |
| 1272.6 | 67.5° | 807.4  | 187.4  | 65.6  | 53.0  | 53.4  | 51.9  | 49.9  | 46.4  | 39.7  | 33.4  |
| 570.1  | 70°   | 355.6  | 90.8   | 43.2  | 40.5  | 39.7  | 39.7  | 41.3  | 40.1  | 33.8  | 27.9  |
| 198.0  | 72.5° | 121.0  | 48.7   | 32.2  | 30.6  | 28.7  | 28.3  | 34.6  | 33.4  | 27.1  | 21.6  |
| 98.6   | 75°   | 63.3   | 32.6   | 23.6  | 22.0  | 17.3  | 20.8  | 27.5  | 25.9  | 19.3  | 14.1  |
| 65.2   | 77.5° | 41.3   | 23.2   | 16.1  | 14.1  | 9.8   | 13.8  | 20.4  | 18.1  | 11.4  | 7.1   |
| 42.8   | 80°   | 25.9   | 15.3   | 9.4   | 6.7   | 4.7   | 7.5   | 11.0  | 7.9   | 4.3   | 1.6   |
| 25.1   | 82.5° | 13.8   | 7.9    | 3.5   | 2.4   | 2.0   | 2.4   | 2.8   | 2.0   | 0.8   | 0.0   |
| 13.0   | 85°   | 5.5    | 2.8    | 1.2   | 0.8   | 0.4   | 0.0   | 0.8   | 0.4   | 0.0   | 0.0   |
| 2.4    | 87.5° | 2.0    | 0.4    | 0.0   | 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   |

(END O

|             |
|-------------|
| <u>180°</u> |
| 777.1       |
| 726.1       |
| 607.8       |
| 453.0       |
| 305.7       |
| 247.5       |
| 241.2       |
| 237.7       |
| 232.2       |
| 226.7       |
| 223.2       |
| 220.4       |
| 217.7       |
| 214.9       |
| 212.9       |
| 210.6       |
| 203.1       |
| 186.6       |
| 165.0       |
| 142.6       |
| 122.6       |
| 104.9       |
| 90.4        |
| 76.6        |
| 64.0        |
| 50.3        |
| 38.5        |
| 32.6        |
| 26.7        |
| 20.4        |
| 13.0        |
| 6.3         |
| 1.2         |
| 0.0         |
| 0.0         |
| 0.0         |
| 0.0         |

F REPORT)