

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: P945601

Luminaire Tested: **GALN-SB1C-730-U-T2U-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P945601  
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-SB1C-730-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 5725 lumens  
Efficiency: N/A  
Efficacy: 105.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 54.4  
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

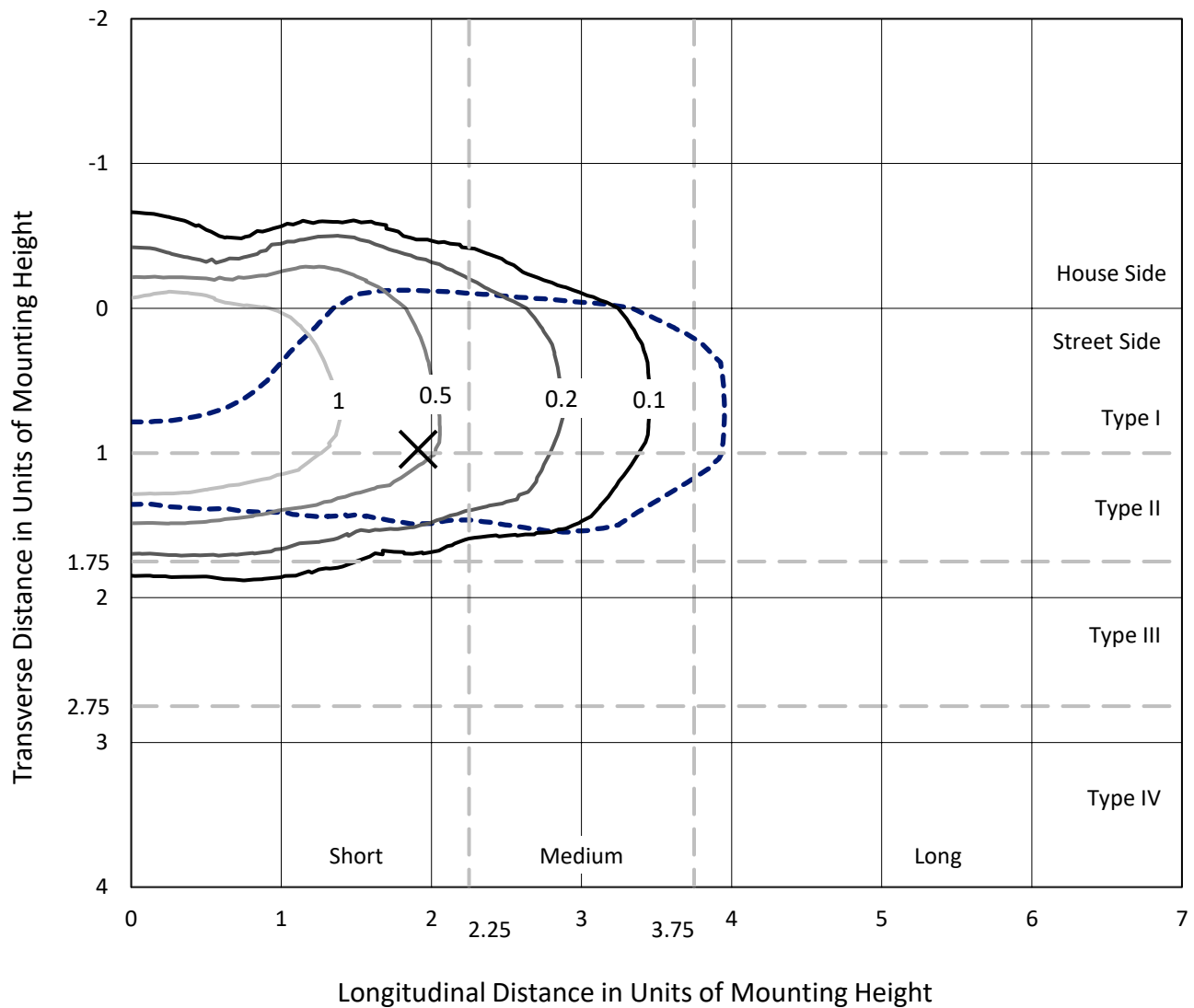


REPORT NUMBER: P945601

CATALOG NUMBER: GALN-SB1C-730-U-T2U-HSS

## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd

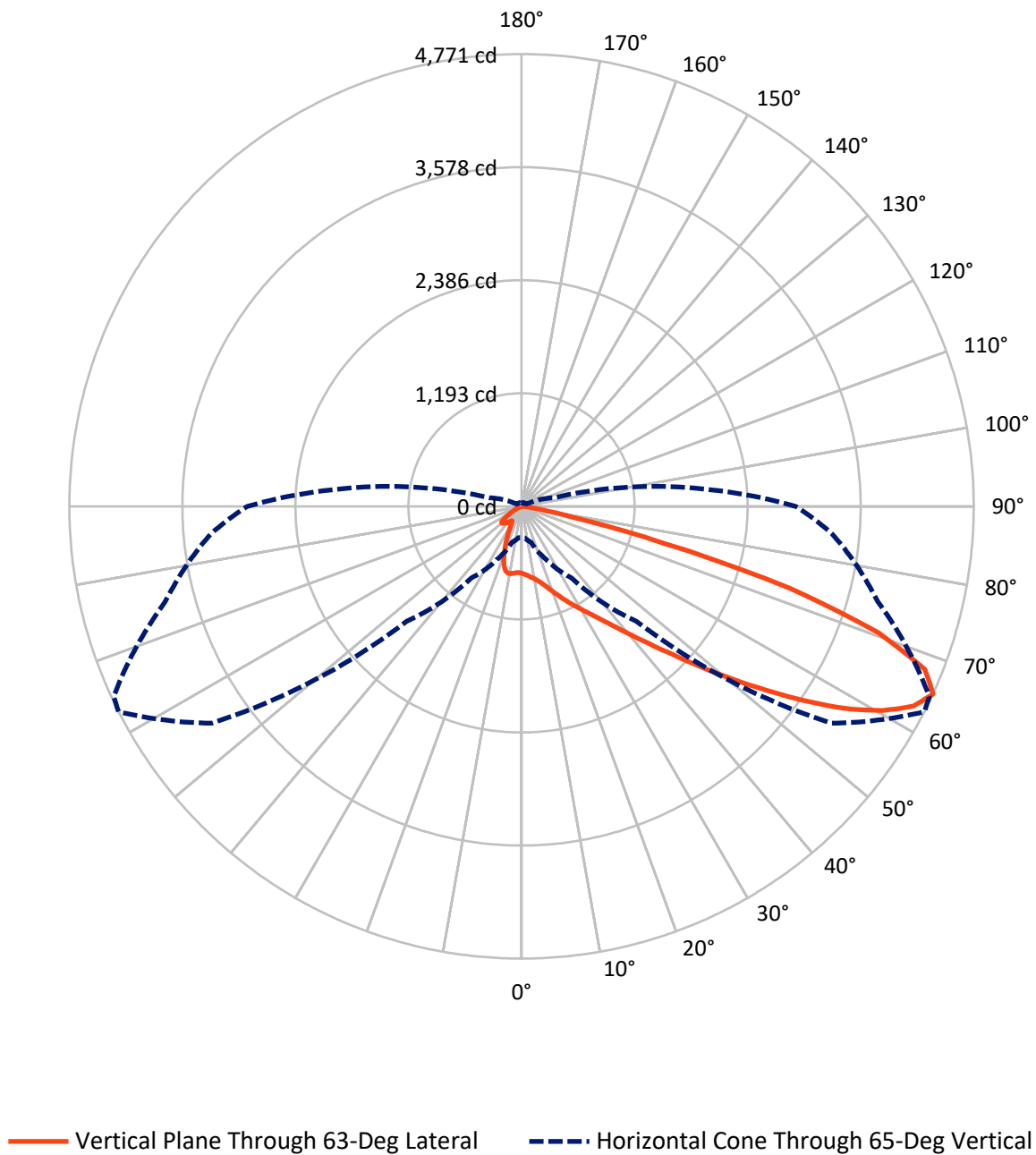


Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
Type II - Short - N/A

REPORT NUMBER: P945601

CATALOG NUMBER: GALN-SB1C-730-U-T2U-HSS

## Luminous Intensity Polar Plot



REPORT NUMBER: P945601

CATALOG NUMBER: GALN-SB1C-730-U-T2U-HSS

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 841.5    | 0.0    | 841.5  |
|                    | % Fixture | 14.7     | 0.0    | 14.7   |
| <b>Street Side</b> | Lumens    | 4883.5   | 0.0    | 4883.5 |
|                    | % Fixture | 85.3     | 0.0    | 85.3   |
| <b>Total</b>       | Lumens    | 5725.0   | 0.0    | 5725.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 66.6   | 1.2       |
| 10°-20°   | 184.7  | 3.2       |
| 20°-30°   | 321.6  | 5.6       |
| 30°-40°   | 579.7  | 10.1      |
| 40°-50°   | 1149.8 | 20.1      |
| 50°-60°   | 1566.2 | 27.4      |
| 60°-70°   | 1250.1 | 21.8      |
| 70°-80°   | 565.7  | 9.9       |
| 80°-90°   | 40.7   | 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°    | 5725.0 | 100.0     |
| 0°-180°   | 5725.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P945601

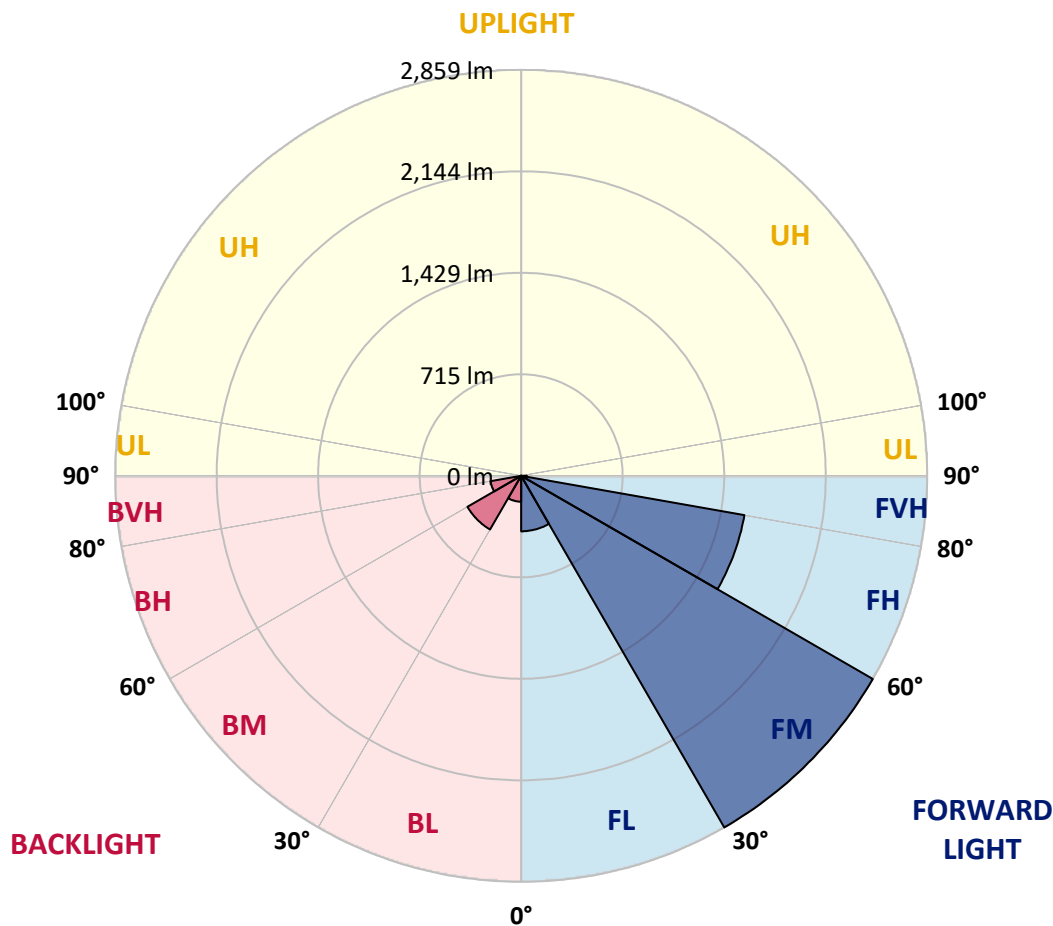
CATALOG NUMBER: GALN-SB1C-730-U-T2U-HSS

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 390.8  | 6.8       |                         |      |         |
| FM   | (30°-60°)   | 2858.9 | 49.9      |                         |      |         |
| FH   | (60°-80°)   | 1596.1 | 27.9      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 37.6   | 0.7       |                         |      | G1/100  |
| BL   | (0°-30°)    | 182.1  | 3.2       | B1/500                  |      |         |
| BM   | (30°-60°)   | 436.7  | 7.6       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 219.7  | 3.8       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 3.0    | 0.1       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G1**

Type II Short



REPORT NUMBER: P945601

CATALOG NUMBER: GALN-SB1C-730-U-T2U-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 63°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 706.6  | 706.6  | 706.6  | 706.6  | 706.6  | 706.6  | 706.6  | 706.6  | 706.6  | 706.6  | 706.6  |
| 2.5°  | 723.1  | 721.1  | 723.9  | 722.7  | 721.9  | 720.4  | 719.6  | 718.8  | 717.2  | 716.0  | 711.3  |
| 5°    | 725.1  | 723.9  | 726.7  | 729.0  | 731.4  | 733.7  | 734.9  | 736.5  | 734.9  | 731.8  | 727.1  |
| 7.5°  | 708.5  | 707.8  | 713.7  | 720.8  | 731.4  | 740.4  | 750.3  | 755.8  | 756.2  | 755.0  | 749.9  |
| 10°   | 707.4  | 705.4  | 711.3  | 720.0  | 733.7  | 749.9  | 767.2  | 779.0  | 780.6  | 785.7  | 780.2  |
| 12.5° | 725.9  | 723.9  | 732.2  | 741.6  | 755.8  | 772.7  | 794.0  | 810.6  | 812.9  | 820.0  | 816.1  |
| 15°   | 757.0  | 754.2  | 763.7  | 775.9  | 794.0  | 813.3  | 835.8  | 850.7  | 852.7  | 861.4  | 854.3  |
| 17.5° | 793.2  | 790.5  | 801.5  | 814.5  | 834.2  | 860.6  | 886.6  | 903.1  | 905.5  | 911.0  | 898.0  |
| 20°   | 839.7  | 836.2  | 844.8  | 856.6  | 877.5  | 909.0  | 940.1  | 963.8  | 963.4  | 963.4  | 942.1  |
| 22.5° | 893.7  | 888.1  | 895.6  | 905.1  | 924.8  | 963.0  | 1004.3 | 1032.3 | 1032.3 | 1021.3 | 986.2  |
| 25°   | 951.6  | 946.0  | 954.3  | 963.0  | 980.3  | 1023.6 | 1072.1 | 1106.7 | 1108.3 | 1089.4 | 1033.5 |
| 27.5° | 1024.0 | 1016.9 | 1023.2 | 1033.5 | 1043.7 | 1087.8 | 1145.3 | 1185.5 | 1186.3 | 1157.1 | 1078.4 |
| 30°   | 1163.4 | 1143.4 | 1123.7 | 1112.6 | 1117.4 | 1161.1 | 1222.5 | 1267.0 | 1271.0 | 1230.8 | 1127.2 |
| 32.5° | 1418.7 | 1414.7 | 1345.4 | 1254.8 | 1207.6 | 1239.9 | 1308.8 | 1362.3 | 1364.7 | 1313.1 | 1190.6 |
| 35°   | 1815.3 | 1810.5 | 1699.1 | 1526.6 | 1372.6 | 1345.4 | 1413.5 | 1477.0 | 1475.4 | 1417.1 | 1272.9 |
| 37.5° | 2288.7 | 2284.4 | 2137.4 | 1906.6 | 1657.3 | 1504.9 | 1548.6 | 1615.2 | 1625.0 | 1548.6 | 1379.3 |
| 40°   | 2693.2 | 2677.0 | 2584.1 | 2361.5 | 2035.4 | 1769.6 | 1740.8 | 1784.9 | 1795.2 | 1704.6 | 1514.4 |
| 42.5° | 2999.6 | 2985.8 | 2938.5 | 2799.5 | 2493.1 | 2161.1 | 1967.3 | 1984.2 | 1995.7 | 1887.0 | 1669.5 |
| 45°   | 3158.3 | 3155.2 | 3174.1 | 3161.1 | 2959.4 | 2641.6 | 2291.0 | 2220.5 | 2224.9 | 2089.0 | 1845.6 |
| 47.5° | 3180.8 | 3179.2 | 3265.4 | 3387.5 | 3360.4 | 3183.5 | 2706.6 | 2515.1 | 2499.8 | 2317.0 | 2037.0 |
| 50°   | 3048.4 | 3045.3 | 3210.7 | 3439.5 | 3628.2 | 3638.8 | 3178.4 | 2847.2 | 2813.3 | 2553.0 | 2236.7 |
| 52.5° | 2625.8 | 2625.0 | 2896.8 | 3277.6 | 3722.3 | 4037.4 | 3644.7 | 3211.9 | 3155.2 | 2802.7 | 2447.8 |
| 55°   | 2020.5 | 2035.0 | 2346.6 | 2796.8 | 3550.6 | 4229.2 | 4063.4 | 3616.8 | 3529.7 | 3053.9 | 2642.4 |
| 57.5° | 1431.3 | 1452.5 | 1760.5 | 2161.5 | 3018.1 | 4115.8 | 4346.6 | 4022.4 | 3928.7 | 3304.4 | 2839.7 |
| 60°   | 768.8  | 787.7  | 1096.1 | 1574.6 | 2245.4 | 3692.8 | 4495.8 | 4374.5 | 4285.9 | 3542.3 | 3017.7 |
| 62.5° | 458.1  | 464.4  | 592.0  | 1016.5 | 1518.7 | 2821.2 | 4432.4 | 4642.7 | 4569.9 | 3742.0 | 3172.5 |
| 65°   | 328.9  | 330.0  | 394.2  | 620.7  | 922.0  | 1714.1 | 3987.8 | 4771.1 | 4748.7 | 3892.5 | 3287.1 |
| 67.5° | 276.9  | 276.1  | 302.9  | 412.4  | 628.2  | 858.6  | 3056.3 | 4589.6 | 4684.9 | 3987.8 | 3352.1 |
| 70°   | 237.5  | 238.7  | 270.2  | 302.1  | 472.2  | 486.0  | 1519.5 | 3996.0 | 4199.3 | 4013.0 | 3348.1 |
| 72.5° | 176.8  | 180.8  | 209.9  | 275.3  | 356.4  | 334.4  | 524.6  | 2963.0 | 3330.4 | 3781.0 | 3174.5 |
| 75°   | 124.9  | 126.8  | 147.7  | 231.6  | 265.9  | 243.4  | 267.8  | 1531.7 | 2002.7 | 2898.8 | 2598.3 |
| 77.5° | 96.1   | 99.6   | 111.9  | 161.9  | 261.9  | 170.9  | 163.8  | 530.1  | 814.5  | 1751.1 | 1781.4 |
| 80°   | 52.0   | 58.3   | 80.7   | 117.0  | 183.9  | 120.9  | 81.1   | 211.1  | 276.1  | 818.8  | 686.9  |
| 82.5° | 26.8   | 29.9   | 56.3   | 84.3   | 104.8  | 105.6  | 40.2   | 87.8   | 113.8  | 252.9  | 94.1   |
| 85°   | 10.6   | 13.0   | 37.8   | 46.5   | 54.0   | 52.0   | 18.1   | 35.4   | 41.0   | 70.1   | 28.8   |
| 87.5° | 2.4    | 3.9    | 13.8   | 10.6   | 10.2   | 11.0   | 4.3    | 8.3    | 7.9    | 8.3    | 5.1    |
| 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: P945601

CATALOG NUMBER: GALN-SB1C-730-U-T2U-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 706.6  | 706.6  | 706.6  | 706.6 | 706.6 | 706.6 | 706.6 | 706.6 | 706.6 | 706.6 | 706.6 |
| 2.5°  | 710.9  | 709.3  | 705.0  | 700.3 | 694.8 | 691.6 | 689.6 | 689.2 | 686.5 | 684.5 | 686.5 |
| 5°    | 722.7  | 721.1  | 712.9  | 703.0 | 692.4 | 684.1 | 676.2 | 669.2 | 658.9 | 656.9 | 656.2 |
| 7.5°  | 746.4  | 742.0  | 728.6  | 715.2 | 695.2 | 671.1 | 642.0 | 608.5 | 578.6 | 569.5 | 565.2 |
| 10°   | 775.5  | 769.6  | 752.7  | 729.0 | 684.5 | 619.1 | 548.6 | 483.3 | 431.3 | 416.7 | 411.2 |
| 12.5° | 808.6  | 803.5  | 781.0  | 737.3 | 640.0 | 521.5 | 413.5 | 332.4 | 282.0 | 269.4 | 265.9 |
| 15°   | 848.0  | 840.5  | 809.4  | 724.7 | 560.5 | 396.2 | 284.0 | 235.9 | 217.8 | 215.4 | 213.1 |
| 17.5° | 889.7  | 877.5  | 834.6  | 679.4 | 453.3 | 281.6 | 219.4 | 205.6 | 197.7 | 195.4 | 194.2 |
| 20°   | 927.9  | 912.2  | 849.5  | 610.9 | 338.7 | 219.4 | 196.5 | 187.5 | 180.4 | 177.6 | 176.1 |
| 22.5° | 966.1  | 943.7  | 849.5  | 517.5 | 254.0 | 194.6 | 180.4 | 172.1 | 163.8 | 160.3 | 158.3 |
| 25°   | 1005.9 | 976.0  | 834.6  | 413.5 | 204.4 | 178.4 | 165.0 | 156.0 | 148.9 | 144.5 | 143.0 |
| 27.5° | 1044.5 | 1003.1 | 800.3  | 315.1 | 182.0 | 164.2 | 150.8 | 142.2 | 135.5 | 132.3 | 132.3 |
| 30°   | 1081.1 | 1029.9 | 752.3  | 239.1 | 167.4 | 150.5 | 137.8 | 130.4 | 123.7 | 120.5 | 120.9 |
| 32.5° | 1130.8 | 1063.8 | 701.1  | 196.1 | 154.8 | 137.5 | 126.0 | 118.9 | 113.0 | 110.7 | 110.7 |
| 35°   | 1199.7 | 1113.8 | 656.9  | 192.6 | 144.2 | 126.8 | 115.4 | 108.7 | 102.8 | 100.8 | 100.8 |
| 37.5° | 1297.4 | 1194.6 | 633.7  | 216.2 | 135.5 | 117.4 | 106.7 | 99.6  | 94.1  | 92.6  | 92.2  |
| 40°   | 1417.9 | 1304.0 | 646.3  | 239.9 | 129.6 | 109.1 | 98.9  | 91.8  | 87.0  | 85.1  | 84.7  |
| 42.5° | 1560.8 | 1439.1 | 716.0  | 258.0 | 125.6 | 102.0 | 91.4  | 83.5  | 80.3  | 79.6  | 79.6  |
| 45°   | 1725.1 | 1587.6 | 822.8  | 277.3 | 119.3 | 95.3  | 83.9  | 78.0  | 75.6  | 75.2  | 74.8  |
| 47.5° | 1911.8 | 1750.7 | 946.4  | 301.3 | 113.0 | 89.0  | 78.0  | 74.0  | 72.1  | 71.3  | 71.3  |
| 50°   | 2096.9 | 1914.9 | 1073.6 | 314.7 | 107.9 | 83.1  | 73.3  | 70.1  | 68.5  | 68.1  | 68.1  |
| 52.5° | 2290.7 | 2083.9 | 1176.4 | 302.1 | 103.6 | 78.4  | 69.3  | 67.0  | 65.4  | 65.0  | 65.0  |
| 55°   | 2475.4 | 2220.5 | 1194.2 | 256.4 | 94.9  | 73.7  | 65.0  | 63.8  | 61.8  | 61.8  | 61.4  |
| 57.5° | 2634.5 | 2289.1 | 1068.9 | 188.3 | 86.3  | 66.6  | 60.7  | 59.5  | 57.9  | 57.5  | 57.1  |
| 60°   | 2780.6 | 2269.4 | 825.1  | 126.8 | 76.8  | 59.5  | 55.1  | 54.4  | 52.8  | 50.8  | 50.4  |
| 62.5° | 2862.9 | 2182.7 | 564.4  | 82.7  | 67.3  | 52.0  | 48.8  | 48.4  | 44.9  | 41.0  | 40.2  |
| 65°   | 2894.0 | 2004.7 | 352.1  | 60.3  | 56.3  | 44.5  | 42.1  | 41.4  | 36.2  | 31.9  | 31.5  |
| 67.5° | 2866.9 | 1711.7 | 177.6  | 47.7  | 44.5  | 37.0  | 34.7  | 34.7  | 31.1  | 27.2  | 26.8  |
| 70°   | 2758.2 | 1283.2 | 74.8   | 38.2  | 34.3  | 28.4  | 28.4  | 29.9  | 26.4  | 22.1  | 21.7  |
| 72.5° | 2522.2 | 863.3  | 39.8   | 29.1  | 25.6  | 20.1  | 23.2  | 24.4  | 20.9  | 16.5  | 16.5  |
| 75°   | 2005.1 | 526.6  | 27.6   | 21.7  | 16.1  | 14.2  | 17.7  | 18.5  | 14.2  | 11.0  | 10.6  |
| 77.5° | 1371.4 | 302.5  | 18.5   | 13.8  | 10.2  | 8.3   | 12.2  | 11.4  | 7.5   | 5.1   | 5.5   |
| 80°   | 602.2  | 126.0  | 10.6   | 6.3   | 3.9   | 3.2   | 4.3   | 3.2   | 2.4   | 1.6   | 1.6   |
| 82.5° | 70.5   | 29.5   | 3.9    | 2.4   | 1.6   | 0.8   | 0.4   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 14.6   | 3.5    | 2.0    | 0.8   | 0.4   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 2.8    | 0.8    | 0.4    | 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)