

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: P938734

Luminaire Tested: **GALN-SB1A-730-U-T2-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P938734  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB1A-730-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 3000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS WITH  
HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 3277 lumens  
Efficiency: N/A  
Efficacy: 106.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 30.9  
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



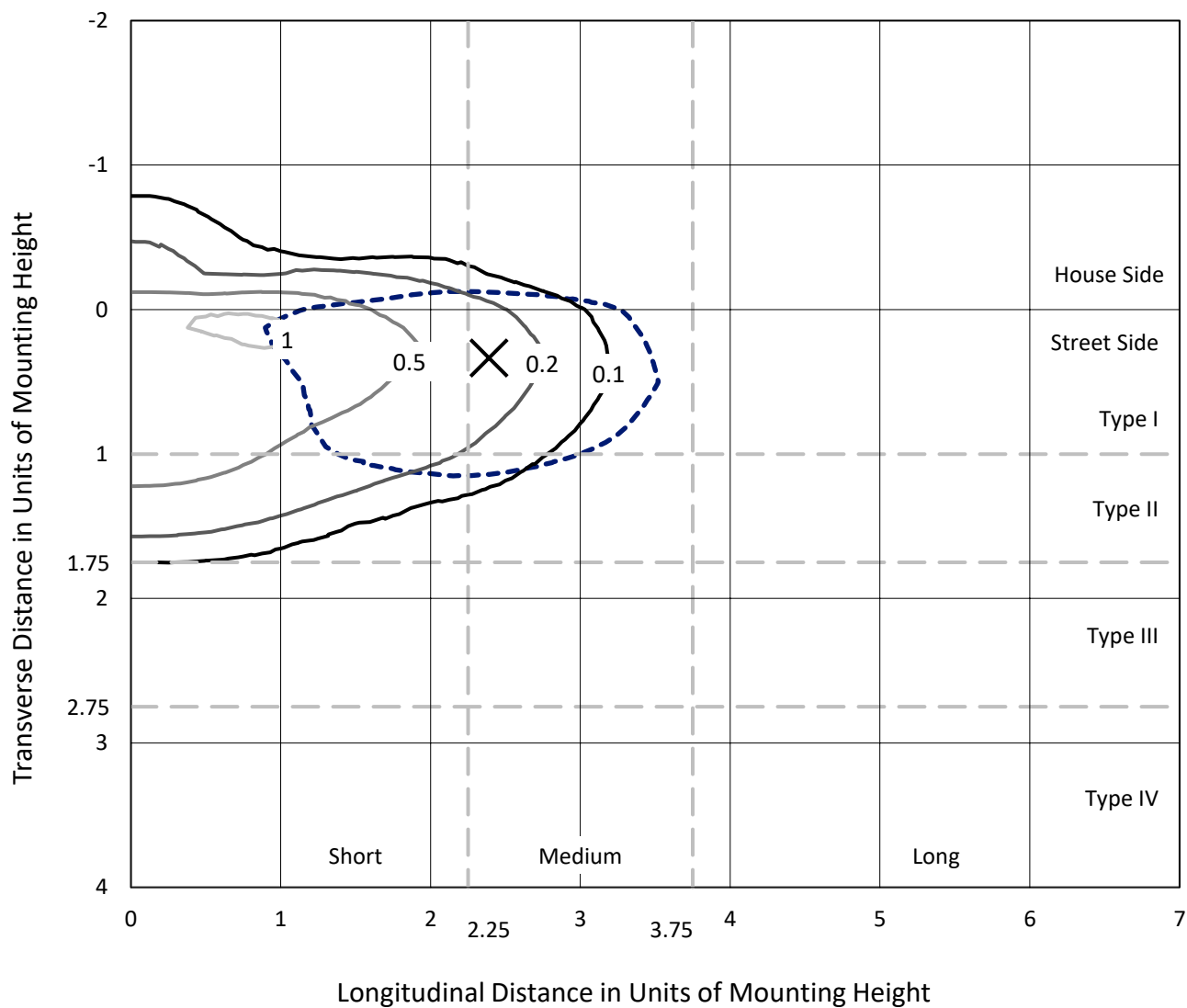
REPORT NUMBER: P938734

CATALOG NUMBER: GALN-SB1A-730-U-T2-HSS

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

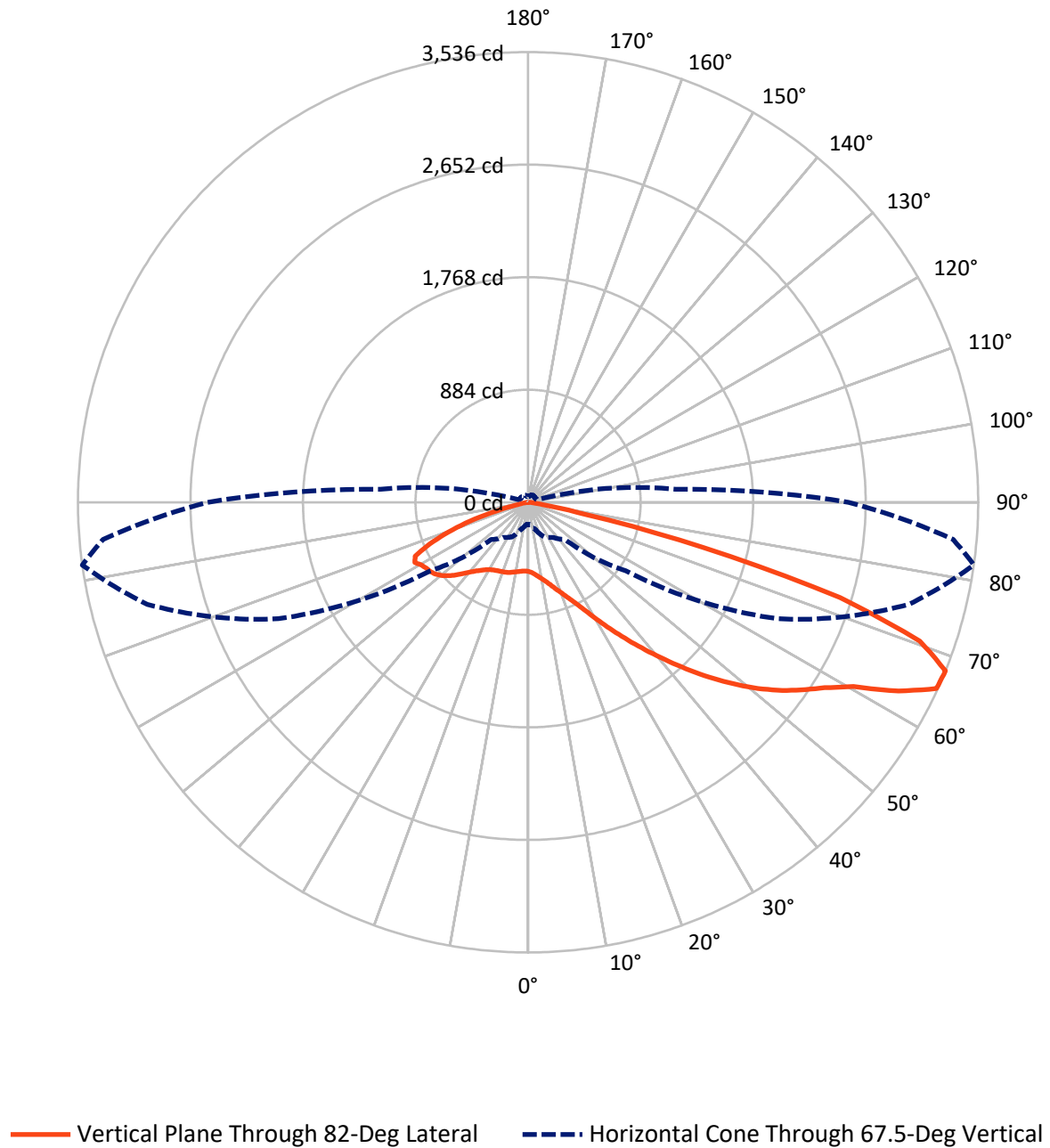


Based on 25 foot mounting height. Maximum calculated value = 1.1 fc  
Type II - Medium - N/A

REPORT NUMBER: P938734

CATALOG NUMBER: GALN-SB1A-730-U-T2-HSS

## Luminous Intensity Polar Plot



REPORT NUMBER: P938734

CATALOG NUMBER: GALN-SB1A-730-U-T2-HSS

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 593.6    | 0.0    | 593.6  |
|                    | % Fixture | 18.1     | 0.0    | 18.1   |
| <b>Street Side</b> | Lumens    | 2683.4   | 0.0    | 2683.4 |
|                    | % Fixture | 81.9     | 0.0    | 81.9   |
| <b>Total</b>       | Lumens    | 3277.0   | 0.0    | 3277.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 48.4   | 1.5       |
| 10°-20°   | 125.7  | 3.8       |
| 20°-30°   | 201.3  | 6.1       |
| 30°-40°   | 356.0  | 10.9      |
| 40°-50°   | 623.7  | 19.0      |
| 50°-60°   | 831.8  | 25.4      |
| 60°-70°   | 774.4  | 23.6      |
| 70°-80°   | 297.2  | 9.1       |
| 80°-90°   | 18.5   | 0.6       |
| 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°    | 3277.0 | 100.0     |
| 0°-180°   | 3277.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P938734

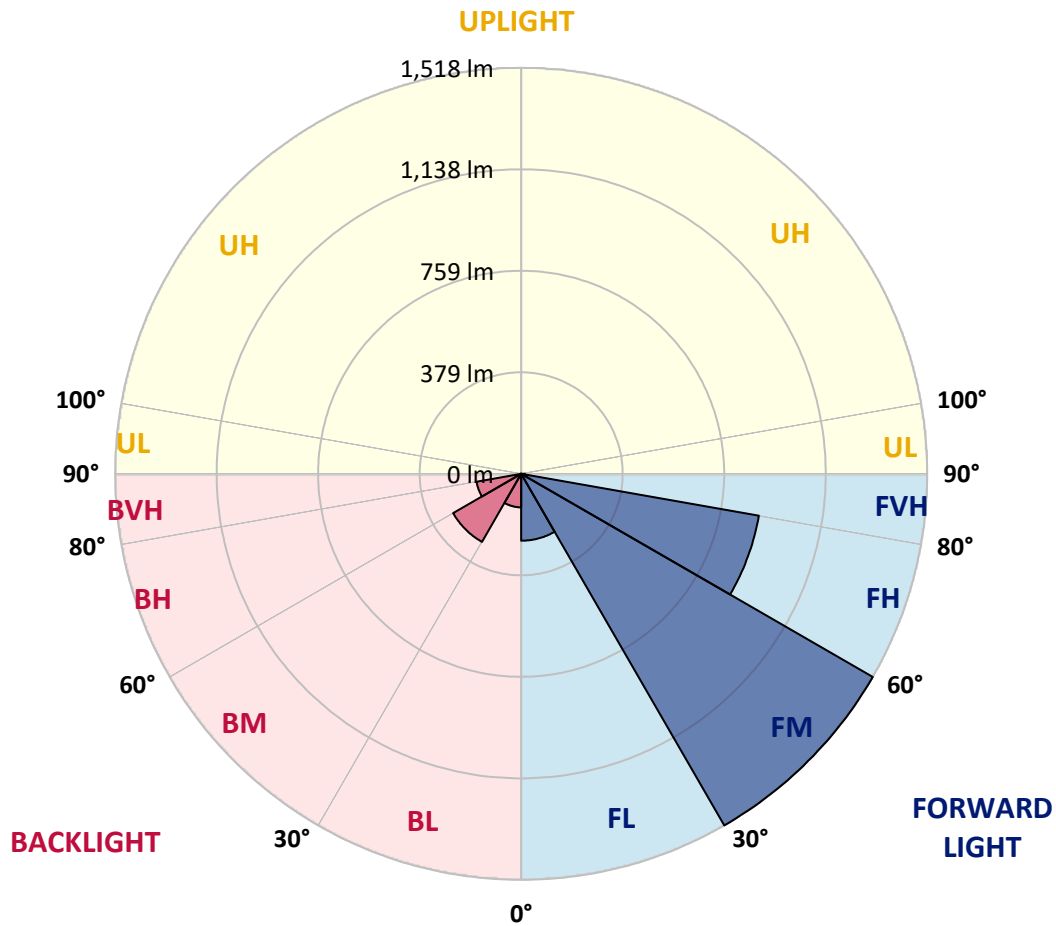
CATALOG NUMBER: GALN-SB1A-730-U-T2-HSS

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 250.0  | 7.6       |                         |      |         |
| FM   | (30°-60°)   | 1517.8 | 46.3      |                         |      |         |
| FH   | (60°-80°)   | 902.2  | 27.5      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 13.4   | 0.4       |                         |      | G1/100  |
| BL   | (0°-30°)    | 125.4  | 3.8       | B1/500                  |      |         |
| BM   | (30°-60°)   | 293.8  | 9.0       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 169.4  | 5.2       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 5.0    | 0.2       |                         |      | 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 Medium



REPORT NUMBER: P938734

CATALOG NUMBER: GALN-SB1A-730-U-T2-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 82°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 542.9  | 542.9  | 542.9  | 542.9  | 542.9  | 542.9  | 542.9  | 542.9  | 542.9  | 542.9  | 542.9  |
| 2.5°  | 573.8  | 577.1  | 575.2  | 574.3  | 572.6  | 570.3  | 568.4  | 562.5  | 556.3  | 552.3  | 550.9  |
| 5°    | 585.4  | 588.7  | 588.4  | 589.4  | 590.5  | 591.3  | 590.8  | 584.2  | 575.4  | 568.6  | 564.6  |
| 7.5°  | 575.4  | 579.2  | 582.3  | 587.0  | 595.3  | 604.0  | 608.2  | 606.8  | 597.9  | 588.4  | 583.5  |
| 10°   | 547.4  | 551.4  | 558.7  | 569.8  | 587.2  | 606.1  | 621.9  | 629.2  | 623.6  | 613.2  | 606.4  |
| 12.5° | 495.9  | 499.9  | 514.3  | 538.4  | 567.7  | 600.5  | 630.7  | 650.2  | 651.7  | 641.3  | 633.3  |
| 15°   | 438.1  | 442.1  | 457.5  | 487.7  | 532.3  | 584.9  | 635.4  | 672.4  | 684.9  | 676.0  | 666.3  |
| 17.5° | 402.3  | 405.8  | 417.4  | 441.7  | 488.2  | 553.7  | 633.7  | 696.0  | 724.6  | 717.5  | 705.9  |
| 20°   | 391.4  | 394.5  | 399.9  | 416.9  | 455.6  | 521.4  | 622.9  | 718.2  | 767.3  | 763.3  | 750.3  |
| 22.5° | 403.0  | 405.8  | 407.5  | 415.0  | 439.3  | 500.2  | 609.2  | 740.8  | 816.8  | 817.3  | 801.5  |
| 25°   | 429.6  | 432.5  | 430.6  | 435.3  | 445.9  | 493.6  | 604.0  | 767.5  | 879.1  | 884.3  | 866.4  |
| 27.5° | 473.5  | 473.8  | 469.3  | 469.0  | 470.7  | 503.5  | 609.4  | 796.0  | 957.7  | 967.3  | 945.2  |
| 30°   | 561.5  | 558.0  | 540.8  | 522.1  | 513.6  | 533.2  | 624.5  | 829.8  | 1050.4 | 1067.6 | 1039.8 |
| 32.5° | 697.2  | 692.0  | 660.4  | 615.8  | 571.0  | 581.1  | 651.7  | 868.2  | 1151.4 | 1182.5 | 1148.5 |
| 35°   | 844.4  | 843.0  | 810.0  | 743.7  | 665.3  | 649.3  | 695.8  | 918.7  | 1261.5 | 1311.1 | 1270.7 |
| 37.5° | 981.3  | 980.5  | 961.7  | 883.6  | 788.3  | 744.4  | 766.6  | 984.8  | 1379.5 | 1451.2 | 1403.6 |
| 40°   | 1106.3 | 1108.4 | 1089.6 | 1019.7 | 923.7  | 866.4  | 862.8  | 1066.4 | 1510.7 | 1603.9 | 1547.3 |
| 42.5° | 1214.4 | 1216.7 | 1197.6 | 1145.9 | 1057.5 | 1001.3 | 981.0  | 1166.5 | 1638.8 | 1767.9 | 1700.9 |
| 45°   | 1287.7 | 1302.4 | 1299.5 | 1258.2 | 1194.8 | 1136.5 | 1123.1 | 1292.0 | 1784.9 | 1941.8 | 1863.2 |
| 47.5° | 1308.5 | 1321.9 | 1343.2 | 1348.8 | 1310.2 | 1252.8 | 1268.9 | 1443.2 | 1932.5 | 2115.9 | 2026.5 |
| 50°   | 1257.3 | 1269.8 | 1313.9 | 1372.7 | 1399.6 | 1381.9 | 1410.7 | 1605.3 | 2083.8 | 2289.5 | 2186.7 |
| 52.5° | 1156.3 | 1169.1 | 1224.7 | 1317.7 | 1427.4 | 1483.1 | 1552.9 | 1765.0 | 2230.3 | 2454.0 | 2338.4 |
| 55°   | 1010.3 | 1023.7 | 1095.2 | 1200.4 | 1374.3 | 1524.9 | 1671.6 | 1924.5 | 2364.5 | 2601.9 | 2475.2 |
| 57.5° | 811.6  | 821.5  | 895.8  | 1043.1 | 1240.8 | 1483.3 | 1759.1 | 2098.6 | 2491.0 | 2747.2 | 2610.9 |
| 60°   | 529.0  | 537.7  | 624.0  | 788.3  | 1019.5 | 1344.6 | 1776.6 | 2292.8 | 2659.0 | 2936.2 | 2793.7 |
| 62.5° | 351.8  | 357.7  | 408.9  | 529.4  | 718.0  | 1078.2 | 1674.4 | 2447.8 | 2905.3 | 3265.1 | 3107.3 |
| 65°   | 241.4  | 247.3  | 298.5  | 382.5  | 463.8  | 713.2  | 1380.7 | 2427.3 | 3128.5 | 3526.3 | 3339.7 |
| 67.5° | 172.2  | 177.2  | 220.6  | 299.9  | 335.7  | 414.3  | 936.0  | 2164.9 | 3096.4 | 3536.2 | 3352.2 |
| 70°   | 123.4  | 126.2  | 162.1  | 233.6  | 266.8  | 248.9  | 520.5  | 1655.8 | 2711.1 | 3265.3 | 3096.9 |
| 72.5° | 86.4   | 87.3   | 112.5  | 177.9  | 214.9  | 181.7  | 247.7  | 1103.9 | 2050.5 | 2563.0 | 2400.9 |
| 75°   | 58.5   | 59.7   | 75.7   | 130.5  | 172.5  | 138.7  | 131.2  | 592.0  | 1203.7 | 1418.7 | 1271.7 |
| 77.5° | 35.9   | 36.3   | 48.8   | 89.2   | 129.1  | 105.7  | 84.5   | 250.8  | 465.7  | 457.2  | 389.8  |
| 80°   | 20.3   | 20.3   | 31.1   | 55.4   | 88.0   | 68.2   | 59.2   | 106.6  | 147.5  | 129.5  | 114.2  |
| 82.5° | 11.3   | 11.6   | 22.6   | 34.4   | 58.3   | 40.3   | 32.6   | 49.3   | 63.7   | 56.4   | 49.1   |
| 85°   | 4.7    | 5.2    | 13.9   | 16.3   | 27.8   | 20.1   | 13.2   | 20.8   | 23.6   | 21.0   | 15.3   |
| 87.5° | 0.5    | 0.7    | 4.2    | 3.1    | 3.3    | 4.0    | 1.9    | 4.0    | 3.3    | 3.3    | 2.4    |
| 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: P938734

CATALOG NUMBER: GALN-SB1A-730-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 542.9  | 542.9  | 542.9 | 542.9 | 542.9 | 542.9 | 542.9 | 542.9 | 542.9 | 542.9 | 542.9 |
| 2.5°  | 546.4  | 542.9  | 533.9 | 523.5 | 509.9 | 503.3 | 494.3 | 488.2 | 483.0 | 483.4 | 478.7 |
| 5°    | 557.0  | 548.1  | 528.0 | 503.0 | 471.9 | 449.7 | 426.1 | 409.8 | 396.6 | 393.8 | 387.4 |
| 7.5°  | 571.7  | 557.5  | 522.4 | 477.3 | 424.7 | 384.8 | 349.2 | 326.3 | 310.0 | 304.8 | 299.6 |
| 10°   | 590.5  | 570.0  | 515.0 | 445.0 | 369.2 | 318.5 | 280.3 | 262.4 | 251.3 | 247.5 | 244.7 |
| 12.5° | 612.5  | 584.4  | 505.4 | 405.6 | 312.1 | 263.3 | 239.0 | 230.0 | 226.5 | 225.3 | 224.6 |
| 15°   | 640.1  | 602.3  | 490.7 | 358.9 | 263.8 | 229.6 | 219.2 | 218.0 | 218.5 | 218.0 | 217.8 |
| 17.5° | 672.9  | 621.9  | 466.9 | 310.7 | 231.2 | 212.3 | 208.6 | 209.5 | 210.7 | 210.5 | 210.0 |
| 20°   | 708.8  | 641.3  | 436.5 | 268.0 | 209.0 | 200.1 | 198.0 | 198.9 | 199.8 | 199.4 | 199.1 |
| 22.5° | 749.6  | 662.0  | 402.7 | 234.8 | 194.2 | 188.7 | 186.4 | 186.6 | 186.6 | 185.7 | 185.2 |
| 25°   | 798.4  | 684.9  | 367.4 | 211.2 | 182.9 | 178.6 | 175.8 | 174.8 | 173.4 | 170.6 | 170.1 |
| 27.5° | 856.7  | 709.2  | 333.4 | 194.6 | 173.9 | 169.9 | 166.6 | 164.2 | 160.7 | 156.0 | 155.5 |
| 30°   | 922.3  | 738.7  | 304.6 | 184.3 | 166.8 | 162.8 | 159.0 | 155.5 | 150.3 | 144.4 | 143.9 |
| 32.5° | 999.4  | 770.3  | 283.6 | 177.4 | 160.4 | 156.2 | 151.7 | 147.5 | 141.8 | 135.9 | 136.1 |
| 35°   | 1091.4 | 808.6  | 271.3 | 172.7 | 155.5 | 149.8 | 144.9 | 140.1 | 135.9 | 130.7 | 130.2 |
| 37.5° | 1191.2 | 849.1  | 267.6 | 170.3 | 152.2 | 143.4 | 137.8 | 134.5 | 134.0 | 130.9 | 130.7 |
| 40°   | 1300.5 | 897.3  | 270.4 | 168.9 | 148.6 | 137.3 | 131.2 | 130.5 | 131.7 | 126.2 | 126.5 |
| 42.5° | 1416.1 | 954.4  | 275.1 | 167.3 | 143.7 | 131.2 | 125.3 | 125.3 | 124.3 | 116.8 | 116.8 |
| 45°   | 1541.1 | 1020.2 | 279.8 | 163.3 | 137.8 | 125.0 | 120.6 | 118.9 | 114.9 | 107.6 | 107.4 |
| 47.5° | 1667.1 | 1087.2 | 283.4 | 156.0 | 130.7 | 119.9 | 115.8 | 112.1 | 106.2 | 99.6  | 99.3  |
| 50°   | 1786.7 | 1147.4 | 279.6 | 145.1 | 122.7 | 114.9 | 110.7 | 105.5 | 99.1  | 94.6  | 93.9  |
| 52.5° | 1893.6 | 1199.5 | 263.5 | 132.4 | 114.2 | 109.7 | 105.9 | 100.5 | 95.3  | 90.6  | 90.1  |
| 55°   | 1986.6 | 1241.7 | 235.2 | 120.3 | 106.6 | 105.2 | 101.5 | 94.6  | 87.5  | 83.5  | 83.0  |
| 57.5° | 2075.8 | 1273.8 | 199.8 | 110.4 | 99.8  | 100.3 | 94.6  | 88.5  | 81.9  | 77.6  | 77.2  |
| 60°   | 2194.4 | 1316.8 | 164.0 | 101.2 | 92.5  | 93.9  | 87.8  | 83.3  | 75.0  | 69.6  | 68.9  |
| 62.5° | 2384.1 | 1383.5 | 130.2 | 89.9  | 84.0  | 84.5  | 81.9  | 76.4  | 66.5  | 60.2  | 59.7  |
| 65°   | 2534.7 | 1359.0 | 102.6 | 77.6  | 74.3  | 75.0  | 75.0  | 69.1  | 58.5  | 51.2  | 50.5  |
| 67.5° | 2517.7 | 1163.6 | 81.9  | 65.6  | 65.1  | 65.6  | 67.2  | 62.3  | 51.9  | 46.0  | 45.1  |
| 70°   | 2319.2 | 925.6  | 65.6  | 54.5  | 56.6  | 55.4  | 60.2  | 56.9  | 46.7  | 40.8  | 40.1  |
| 72.5° | 1892.4 | 666.8  | 50.0  | 45.1  | 43.4  | 45.3  | 54.3  | 51.2  | 38.9  | 32.3  | 31.6  |
| 75°   | 1105.8 | 355.8  | 37.3  | 35.6  | 31.4  | 37.7  | 48.1  | 43.6  | 29.7  | 23.8  | 23.1  |
| 77.5° | 360.0  | 124.1  | 27.4  | 26.2  | 23.4  | 30.4  | 41.1  | 36.8  | 24.3  | 18.9  | 18.2  |
| 80°   | 96.5   | 37.5   | 18.6  | 17.2  | 15.1  | 22.6  | 32.6  | 29.3  | 17.5  | 12.3  | 12.0  |
| 82.5° | 38.7   | 15.8   | 10.9  | 9.7   | 8.3   | 15.6  | 25.7  | 23.6  | 13.0  | 7.8   | 7.8   |
| 85°   | 12.5   | 5.2    | 4.0   | 3.1   | 3.8   | 9.7   | 15.3  | 16.0  | 9.2   | 4.0   | 3.1   |
| 87.5° | 1.7    | 0.7    | 0.7   | 0.9   | 0.7   | 1.7   | 4.7   | 4.5   | 2.6   | 0.5   | 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)