

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: P951674

Luminaire Tested: **GALN-SB5D-730-U-T4W-HSS**

Issue Date: 1/21/2025

#### Test Information

Test Method: LM-79-08  
Report Number: P951674  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5D-730-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 39596 lumens  
Efficiency: N/A  
Efficacy: 108.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5  
  
Input Watts (W): 364.9  
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

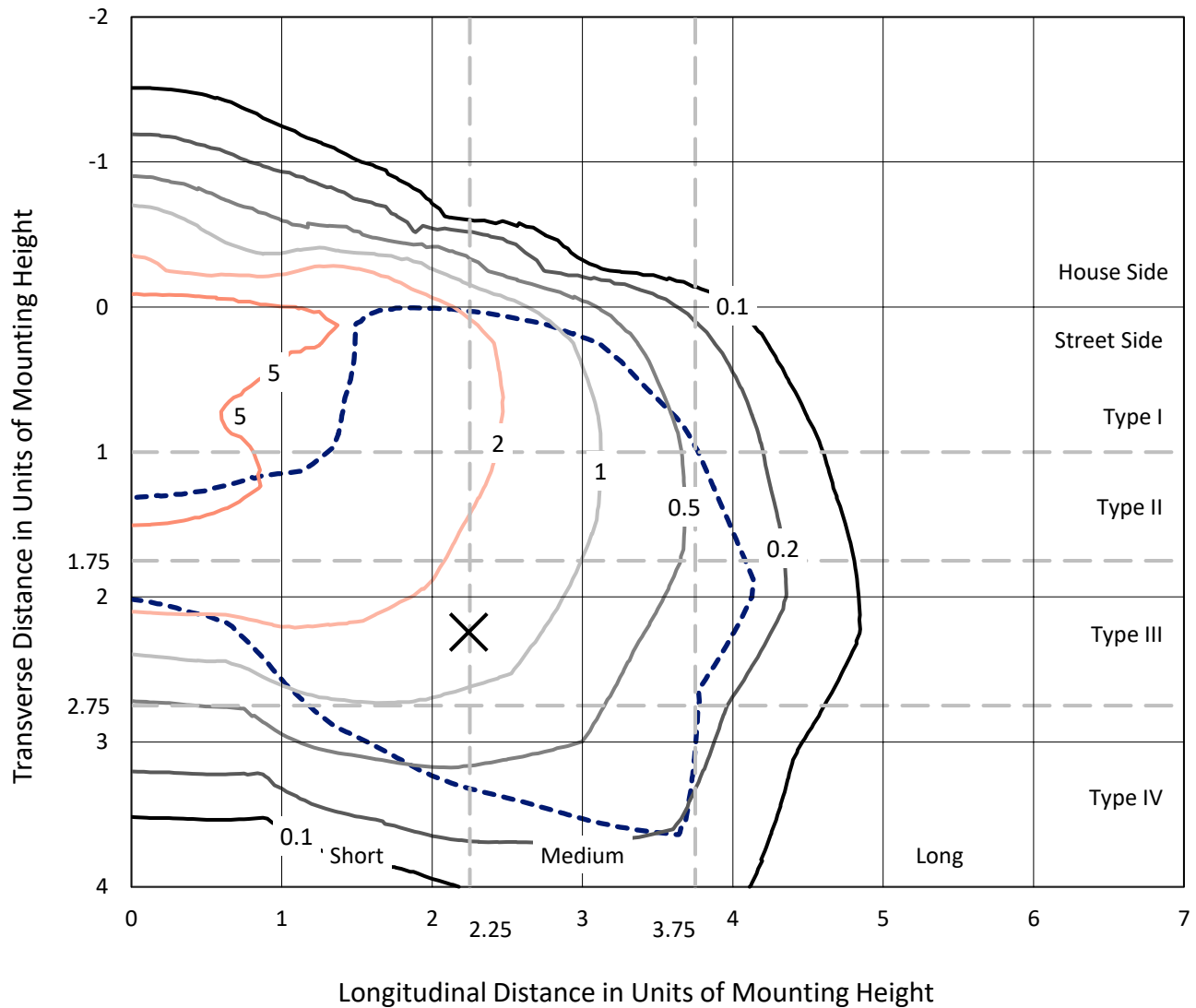


REPORT NUMBER: P951674

CATALOG NUMBER: GALN-SB5D-730-U-T4W-HSS

## Iso-Footcandle Lines of Horizontal Illumination

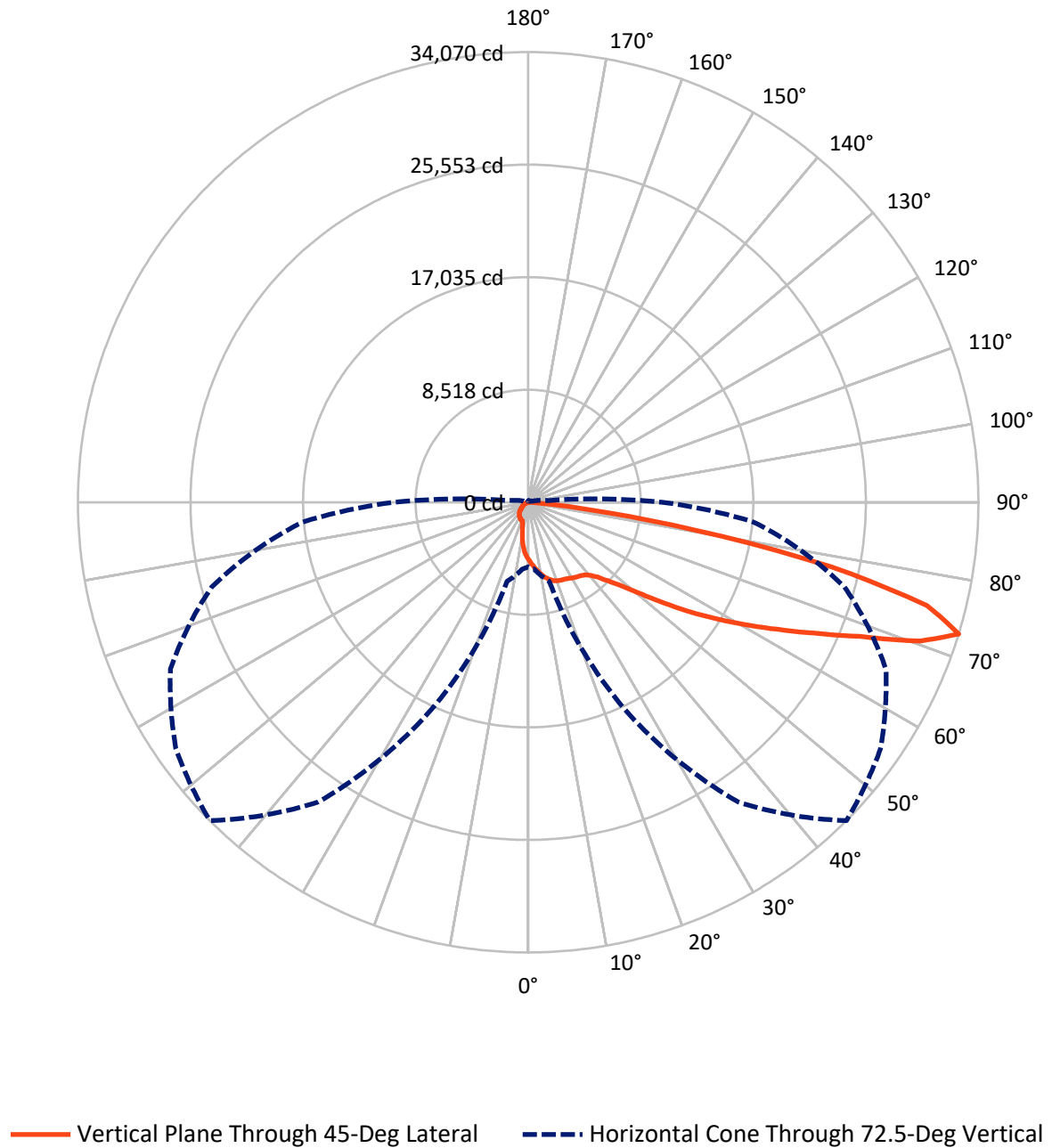
× Max cd  
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc  
Type IV - Short - N/A

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CATALOG NUMBER: GALN-SB5D-730-U-T4W-HSS

## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4160.4   | 0.0    | 4160.4  |
|                    | % Fixture | 10.5     | 0.0    | 10.5    |
| <b>Street Side</b> | Lumens    | 35435.6  | 0.0    | 35435.6 |
|                    | % Fixture | 89.5     | 0.0    | 89.5    |
| <b>Total</b>       | Lumens    | 39596.0  | 0.0    | 39596.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 408.7   | 1.0       |
| 10°-20°   | 1194.5  | 3.0       |
| 20°-30°   | 1961.5  | 5.0       |
| 30°-40°   | 2781.9  | 7.0       |
| 40°-50°   | 4598.2  | 11.6      |
| 50°-60°   | 8260.2  | 20.9      |
| 60°-70°   | 11469.7 | 29.0      |
| 70°-80°   | 8319.8  | 21.0      |
| 80°-90°   | 601.5   | 1.5       |
| 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°    | 39596.0 | 100.0     |
| 0°-180°   | 39596.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P951674

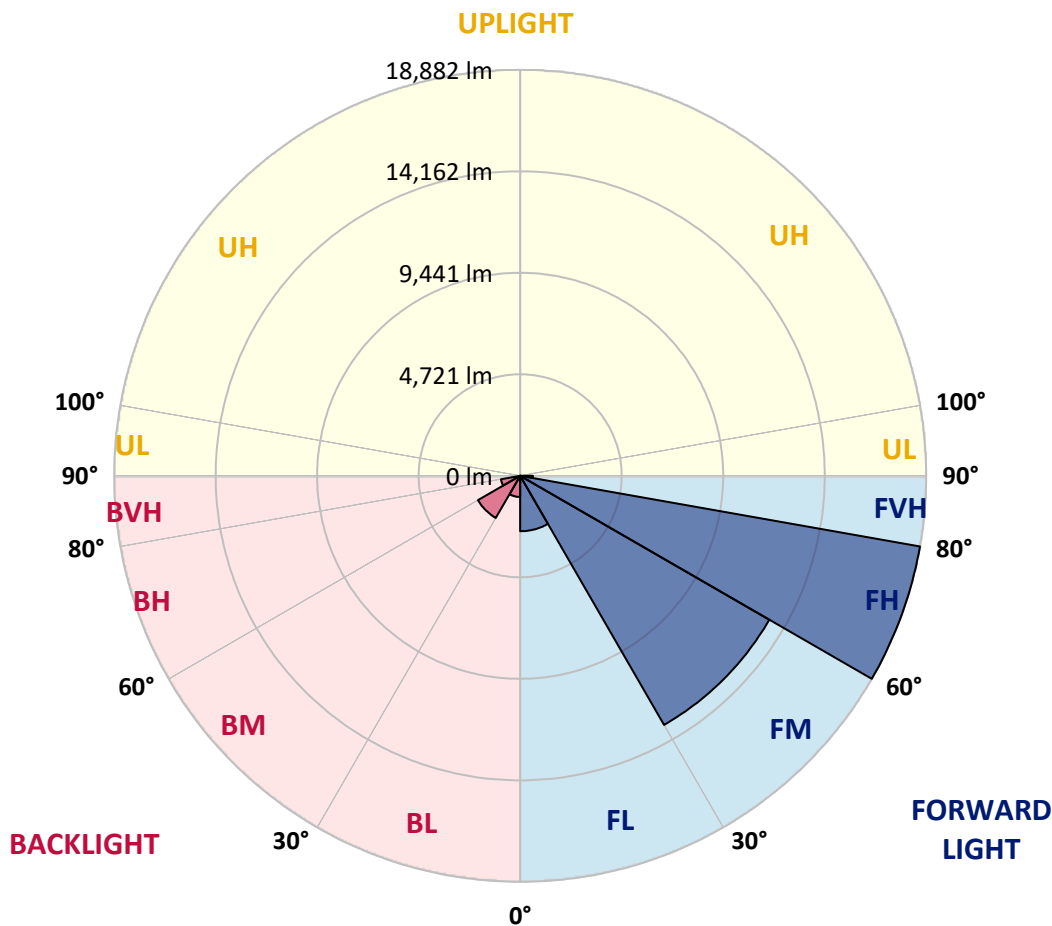
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2579.3  | 6.5       |                         |      |         |
| FM   | (30°-60°)   | 13377.6 | 33.8      |                         |      |         |
| FH   | (60°-80°)   | 18882.2 | 47.7      |                         |      | G5      |
| FVH  | (80°-90°)   | 596.4   | 1.5       |                         |      | G4/750  |
| BL   | (0°-30°)    | 985.4   | 2.5       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 2262.7  | 5.7       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 907.3   | 2.3       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 5.1     | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G5**

Type IV Short



REPORT NUMBER: P951674

CATALOG NUMBER: GALN-SB5D-730-U-T4W-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 46°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4337.8  | 4337.8  | 4337.8  | 4337.8  | 4337.8  | 4337.8  | 4337.8  | 4337.8  | 4337.8  | 4337.8  | 4337.8  |
| 2.5°  | 4737.8  | 4745.9  | 4740.5  | 4708.1  | 4654.0  | 4624.3  | 4608.1  | 4554.0  | 4518.9  | 4456.7  | 4391.9  |
| 5°    | 5173.0  | 5205.4  | 5186.5  | 5121.6  | 5018.9  | 4945.9  | 4924.3  | 4813.5  | 4713.5  | 4597.3  | 4462.2  |
| 7.5°  | 5635.1  | 5651.3  | 5616.2  | 5532.4  | 5394.6  | 5270.3  | 5251.3  | 5097.3  | 4937.8  | 4759.4  | 4575.7  |
| 10°   | 6035.1  | 6054.0  | 6000.0  | 5878.4  | 5721.6  | 5567.6  | 5540.5  | 5370.3  | 5181.1  | 4962.1  | 4727.0  |
| 12.5° | 6370.3  | 6389.2  | 6318.9  | 6173.0  | 6000.0  | 5840.5  | 5813.5  | 5635.1  | 5427.0  | 5183.8  | 4891.9  |
| 15°   | 6624.3  | 6659.4  | 6564.8  | 6408.1  | 6221.6  | 6062.1  | 6048.6  | 5873.0  | 5670.3  | 5400.0  | 5089.2  |
| 17.5° | 6773.0  | 6808.1  | 6718.9  | 6529.7  | 6370.3  | 6235.1  | 6218.9  | 6073.0  | 5883.8  | 5624.3  | 5281.1  |
| 20°   | 6797.3  | 6829.7  | 6735.1  | 6570.3  | 6437.8  | 6329.7  | 6321.6  | 6216.2  | 6078.4  | 5829.7  | 5489.2  |
| 22.5° | 6724.3  | 6764.8  | 6678.4  | 6545.9  | 6454.0  | 6397.3  | 6386.5  | 6327.0  | 6248.6  | 6037.8  | 5683.8  |
| 25°   | 6648.6  | 6681.1  | 6616.2  | 6500.0  | 6451.3  | 6445.9  | 6454.0  | 6443.2  | 6427.0  | 6248.6  | 5910.8  |
| 27.5° | 6643.2  | 6678.4  | 6605.4  | 6494.6  | 6467.5  | 6524.3  | 6532.4  | 6583.8  | 6597.3  | 6440.5  | 6129.7  |
| 30°   | 6689.2  | 6713.5  | 6643.2  | 6527.0  | 6513.5  | 6643.2  | 6645.9  | 6737.8  | 6759.4  | 6602.7  | 6345.9  |
| 32.5° | 6789.2  | 6816.2  | 6745.9  | 6575.7  | 6556.7  | 6737.8  | 6745.9  | 6867.5  | 6902.7  | 6775.7  | 6573.0  |
| 35°   | 7024.3  | 7056.7  | 6975.7  | 6710.8  | 6643.2  | 6827.0  | 6851.3  | 6994.6  | 7064.8  | 6959.4  | 6808.1  |
| 37.5° | 7610.8  | 7516.2  | 7405.4  | 6983.8  | 6840.5  | 6967.5  | 7008.1  | 7175.7  | 7300.0  | 7178.4  | 7089.2  |
| 40°   | 9067.5  | 8770.2  | 8424.3  | 7448.6  | 7186.5  | 7267.5  | 7300.0  | 7467.5  | 7637.8  | 7518.9  | 7475.7  |
| 42.5° | 11254.0 | 10902.7 | 10345.9 | 8518.9  | 7708.1  | 7748.6  | 7773.0  | 7918.9  | 8159.4  | 8064.8  | 8075.7  |
| 45°   | 13202.7 | 13075.6 | 12508.1 | 10345.9 | 8683.8  | 8483.8  | 8513.5  | 8589.2  | 8943.2  | 8908.1  | 8978.4  |
| 47.5° | 14700.0 | 14627.0 | 14189.2 | 12443.2 | 10332.4 | 9383.8  | 9467.5  | 9502.7  | 10013.5 | 10137.8 | 10327.0 |
| 50°   | 15851.3 | 15824.3 | 15432.4 | 14308.1 | 12486.5 | 10710.8 | 10740.5 | 10664.8 | 11429.7 | 11737.8 | 12097.3 |
| 52.5° | 16937.8 | 17029.7 | 16740.5 | 16040.5 | 14786.4 | 12448.6 | 12443.2 | 12086.5 | 13118.9 | 13583.7 | 14197.3 |
| 55°   | 17918.9 | 17951.3 | 17981.0 | 17808.1 | 17100.0 | 14427.0 | 14375.6 | 13791.9 | 15078.3 | 15559.4 | 16224.3 |
| 57.5° | 18840.5 | 18854.0 | 19118.9 | 19472.9 | 19508.1 | 16551.3 | 16456.7 | 15756.7 | 17218.9 | 17562.1 | 17970.2 |
| 60°   | 19459.4 | 19521.6 | 20081.0 | 21064.8 | 21494.5 | 18743.2 | 18691.8 | 17978.3 | 19397.2 | 19556.7 | 19481.0 |
| 62.5° | 18567.5 | 18945.9 | 20356.7 | 22308.0 | 23370.2 | 21172.9 | 21148.6 | 20478.3 | 21689.1 | 21559.4 | 20910.8 |
| 65°   | 15029.7 | 15670.2 | 18151.3 | 23148.6 | 25210.7 | 23886.4 | 23921.6 | 23208.0 | 24043.2 | 23621.6 | 22072.9 |
| 67.5° | 10513.5 | 11189.2 | 14124.3 | 23216.2 | 27267.5 | 27072.9 | 27275.6 | 26156.7 | 26543.2 | 25597.2 | 22348.6 |
| 70°   | 7270.3  | 7618.9  | 9529.7  | 21762.1 | 28870.2 | 31462.1 | 31456.7 | 29778.3 | 29029.7 | 26497.2 | 20943.2 |
| 72.5° | 4889.2  | 5070.3  | 6189.2  | 17264.8 | 27691.8 | 34070.2 | 33913.4 | 32545.9 | 29867.5 | 24781.0 | 17110.8 |
| 75°   | 2062.2  | 2194.6  | 2864.9  | 9702.7  | 21908.0 | 31170.2 | 30745.9 | 28762.1 | 26537.8 | 19513.5 | 10675.6 |
| 77.5° | 654.1   | 710.8   | 1129.7  | 3473.0  | 12067.5 | 23429.7 | 22981.0 | 17962.1 | 17786.4 | 9789.2  | 3902.7  |
| 80°   | 310.8   | 362.2   | 635.1   | 1394.6  | 4748.6  | 12743.2 | 12681.0 | 8148.6  | 7651.3  | 2643.2  | 783.8   |
| 82.5° | 135.1   | 159.5   | 351.4   | 745.9   | 2124.3  | 4545.9  | 4637.8  | 2773.0  | 2294.6  | 1002.7  | 240.5   |
| 85°   | 43.2    | 56.8    | 162.2   | 343.2   | 897.3   | 1129.7  | 1116.2  | 659.5   | 924.3   | 545.9   | 83.8    |
| 87.5° | 0.0     | 0.0     | 54.1    | 78.4    | 91.9    | 64.9    | 73.0    | 56.8    | 256.8   | 151.4   | 29.7    |
| 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: P951674

CATALOG NUMBER: GALN-SB5D-730-U-T4W-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 4337.8  | 4337.8  | 4337.8 | 4337.8 | 4337.8 | 4337.8 | 4337.8 | 4337.8 | 4337.8 | 4337.8 | 4337.8 |
| 2.5°  | 4359.4  | 4316.2  | 4240.5 | 4170.3 | 4108.1 | 4045.9 | 4008.1 | 3954.0 | 3948.6 | 3948.6 | 3962.2 |
| 5°    | 4389.2  | 4318.9  | 4183.8 | 4040.5 | 3875.7 | 3718.9 | 3562.2 | 3410.8 | 3362.2 | 3327.0 | 3343.2 |
| 7.5°  | 4475.7  | 4364.9  | 4151.3 | 3878.4 | 3564.9 | 3221.6 | 2981.1 | 2721.6 | 2621.6 | 2567.6 | 2575.7 |
| 10°   | 4600.0  | 4448.6  | 4124.3 | 3645.9 | 3137.8 | 2670.3 | 2327.0 | 2045.9 | 1937.8 | 1891.9 | 1891.9 |
| 12.5° | 4737.8  | 4551.3  | 4075.7 | 3356.7 | 2670.3 | 2110.8 | 1775.7 | 1645.9 | 1629.7 | 1629.7 | 1629.7 |
| 15°   | 4902.7  | 4675.7  | 3991.9 | 3016.2 | 2181.1 | 1670.3 | 1551.3 | 1556.8 | 1573.0 | 1583.8 | 1583.8 |
| 17.5° | 5073.0  | 4808.1  | 3859.4 | 2635.1 | 1748.6 | 1502.7 | 1505.4 | 1513.5 | 1527.0 | 1537.8 | 1537.8 |
| 20°   | 5256.7  | 4940.5  | 3683.8 | 2229.7 | 1500.0 | 1454.1 | 1462.2 | 1470.3 | 1481.1 | 1486.5 | 1489.2 |
| 22.5° | 5454.0  | 5064.9  | 3475.7 | 1832.4 | 1416.2 | 1413.5 | 1416.2 | 1424.3 | 1437.8 | 1437.8 | 1443.2 |
| 25°   | 5664.8  | 5202.7  | 3237.8 | 1543.2 | 1373.0 | 1373.0 | 1378.4 | 1383.8 | 1394.6 | 1394.6 | 1397.3 |
| 27.5° | 5881.1  | 5329.7  | 2986.5 | 1391.9 | 1335.1 | 1332.4 | 1332.4 | 1340.5 | 1345.9 | 1348.6 | 1351.3 |
| 30°   | 6118.9  | 5478.4  | 2735.1 | 1359.5 | 1305.4 | 1291.9 | 1283.8 | 1289.2 | 1294.6 | 1297.3 | 1302.7 |
| 32.5° | 6362.1  | 5621.6  | 2510.8 | 1373.0 | 1275.7 | 1251.3 | 1224.3 | 1218.9 | 1218.9 | 1229.7 | 1237.8 |
| 35°   | 6632.4  | 5778.4  | 2337.8 | 1418.9 | 1259.5 | 1191.9 | 1148.6 | 1124.3 | 1127.0 | 1143.2 | 1151.3 |
| 37.5° | 6956.7  | 5967.6  | 2210.8 | 1459.5 | 1248.6 | 1124.3 | 1054.1 | 1024.3 | 1005.4 | 1024.3 | 1018.9 |
| 40°   | 7381.1  | 6245.9  | 2118.9 | 1491.9 | 1235.1 | 1045.9 | 951.3  | 902.7  | 867.6  | 878.4  | 873.0  |
| 42.5° | 8005.4  | 6683.8  | 2083.8 | 1494.6 | 1205.4 | 954.1  | 845.9  | 781.1  | 729.7  | 732.4  | 721.6  |
| 45°   | 8881.1  | 7375.7  | 2264.9 | 1459.5 | 1140.5 | 854.1  | 735.1  | 648.6  | 616.2  | 608.1  | 597.3  |
| 47.5° | 10081.1 | 8383.8  | 2683.8 | 1386.5 | 1045.9 | 756.8  | 627.0  | 554.1  | 529.7  | 516.2  | 508.1  |
| 50°   | 11689.2 | 9678.4  | 3148.6 | 1305.4 | 951.3  | 664.9  | 537.8  | 491.9  | 475.7  | 462.2  | 459.5  |
| 52.5° | 13554.0 | 10991.9 | 3529.7 | 1224.3 | 856.8  | 583.8  | 481.1  | 454.1  | 440.5  | 429.7  | 427.0  |
| 55°   | 15264.8 | 11897.3 | 3508.1 | 1137.8 | 764.9  | 518.9  | 440.5  | 424.3  | 408.1  | 397.3  | 391.9  |
| 57.5° | 16329.7 | 12024.3 | 2891.9 | 1043.2 | 659.5  | 467.6  | 402.7  | 391.9  | 373.0  | 359.5  | 356.8  |
| 60°   | 16818.9 | 11300.0 | 2027.0 | 918.9  | 554.1  | 418.9  | 362.2  | 356.8  | 332.4  | 313.5  | 308.1  |
| 62.5° | 16908.1 | 9954.0  | 1351.3 | 764.9  | 462.2  | 373.0  | 321.6  | 313.5  | 281.1  | 248.6  | 232.4  |
| 65°   | 16545.9 | 8029.7  | 935.1  | 597.3  | 394.6  | 324.3  | 275.7  | 259.5  | 224.3  | 191.9  | 181.1  |
| 67.5° | 15400.0 | 5637.8  | 651.3  | 429.7  | 335.1  | 256.8  | 218.9  | 213.5  | 186.5  | 159.5  | 151.4  |
| 70°   | 13300.0 | 3213.5  | 435.1  | 321.6  | 264.9  | 175.7  | 173.0  | 178.4  | 151.4  | 129.7  | 118.9  |
| 72.5° | 10197.3 | 1470.3  | 270.3  | 235.1  | 181.1  | 118.9  | 137.8  | 140.5  | 116.2  | 97.3   | 86.5   |
| 75°   | 6002.7  | 629.7   | 170.3  | 151.4  | 91.9   | 78.4   | 100.0  | 102.7  | 78.4   | 62.2   | 54.1   |
| 77.5° | 2043.2  | 237.8   | 108.1  | 89.2   | 45.9   | 43.2   | 64.9   | 64.9   | 43.2   | 24.3   | 18.9   |
| 80°   | 464.9   | 89.2    | 54.1   | 35.1   | 21.6   | 18.9   | 21.6   | 18.9   | 10.8   | 2.7    | 0.0    |
| 82.5° | 132.4   | 35.1    | 21.6   | 13.5   | 8.1    | 8.1    | 2.7    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 37.8    | 16.2    | 5.4    | 5.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 16.2    | 2.7     | 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    | 0.0    |

(END OF REPORT)