

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: STREETWORKS

Report Number: P939324

Luminaire Tested: **GLAN-SB1D-840-U-T2-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P939324  
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: STREETWORKS  
Catalog Number: GLAN-SB1D-840-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 4000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS WITH  
HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 7110 lumens  
Efficiency: N/A  
Efficacy: 89.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
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

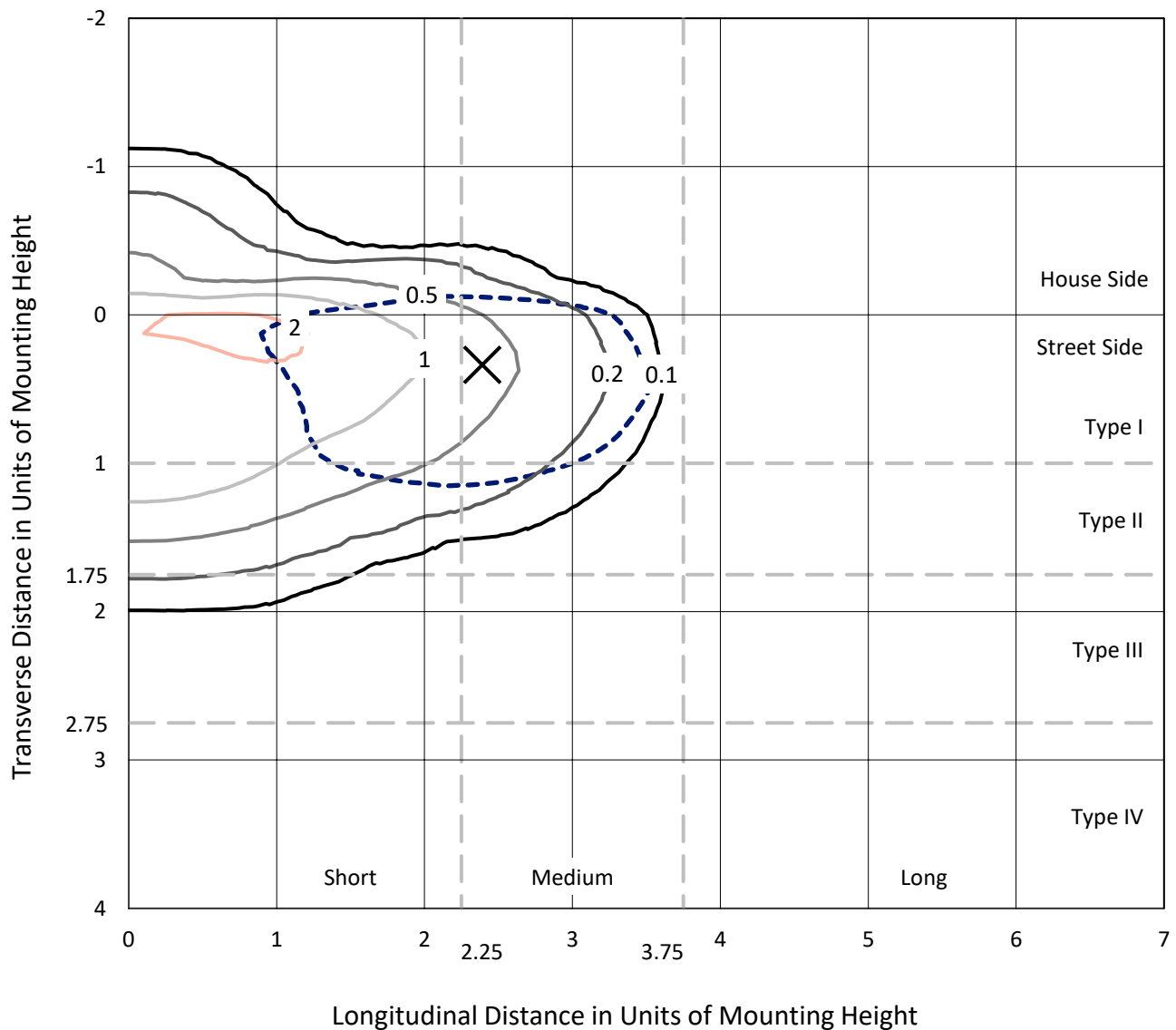


REPORT NUMBER: P939324

CATALOG NUMBER: GLAN-SB1D-840-U-T2-HSS

## Iso-Footcandle Lines of Horizontal Illumination

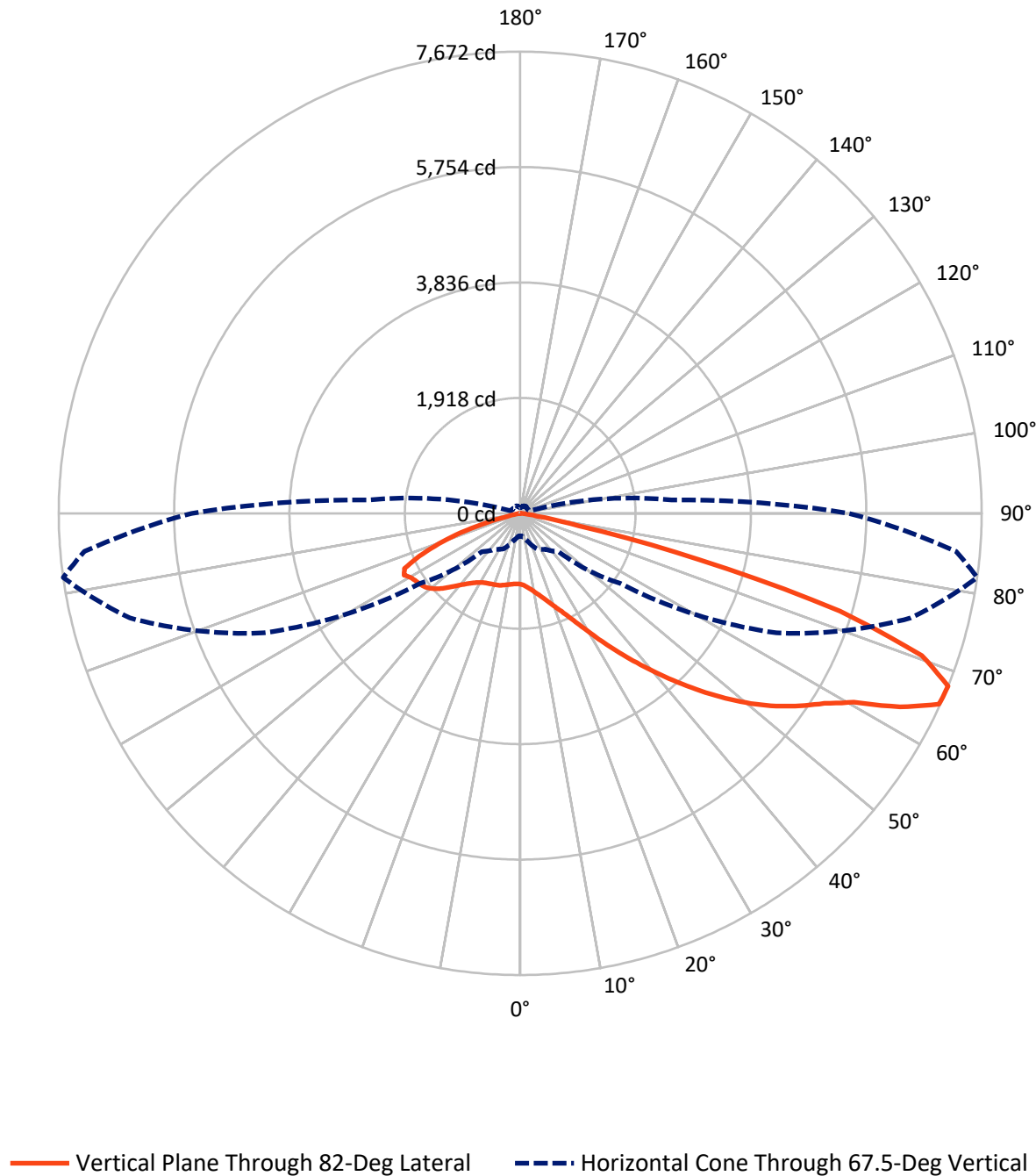
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc  
Type II - Medium - N/A

REPORT NUMBER: P939324  
CATALOG NUMBER: GLAN-SB1D-840-U-T2-HSS

## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1287.9   | 0.0    | 1287.9 |
|                    | % Fixture | 18.1     | 0.0    | 18.1   |
| <b>Street Side</b> | Lumens    | 5822.1   | 0.0    | 5822.1 |
|                    | % Fixture | 81.9     | 0.0    | 81.9   |
| <b>Total</b>       | Lumens    | 7110.0   | 0.0    | 7110.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 104.9  | 1.5       |
| 10°-20°   | 272.7  | 3.8       |
| 20°-30°   | 436.8  | 6.1       |
| 30°-40°   | 772.4  | 10.9      |
| 40°-50°   | 1353.2 | 19.0      |
| 50°-60°   | 1804.8 | 25.4      |
| 60°-70°   | 1680.2 | 23.6      |
| 70°-80°   | 644.9  | 9.1       |
| 80°-90°   | 40.0   | 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°    | 7110.0 | 100.0     |
| 0°-180°   | 7110.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P939324

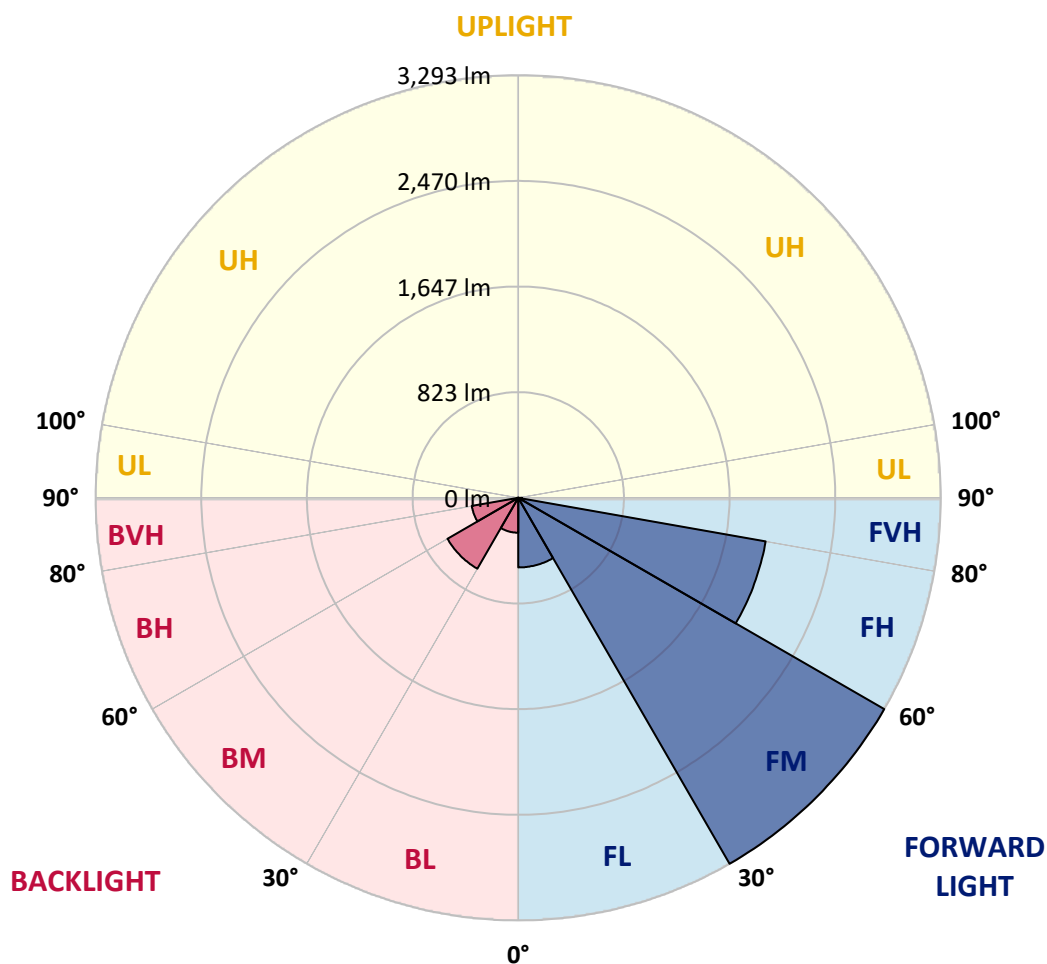
CATALOG NUMBER: GLAN-SB1D-840-U-T2-HSS

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 542.4  | 7.6       |                         |      |         |
| FM   | (30°-60°)   | 3293.1 | 46.3      |                         |      |         |
| FH   | (60°-80°)   | 1957.5 | 27.5      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 29.1   | 0.4       |                         |      | G1/100  |
| BL   | (0°-30°)    | 272.0  | 3.8       | B1/500                  |      |         |
| BM   | (30°-60°)   | 637.4  | 9.0       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 367.6  | 5.2       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 10.9   | 0.2       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

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

Type II Medium



REPORT NUMBER: P939324

CATALOG NUMBER: GLAN-SB1D-840-U-T2-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 82°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1177.9 | 1177.9 | 1177.9 | 1177.9 | 1177.9 | 1177.9 | 1177.9 | 1177.9 | 1177.9 | 1177.9 |
| 2.5°  | 1244.9 | 1252.1 | 1248.0 | 1246.0 | 1242.4 | 1237.3 | 1233.2 | 1220.4 | 1207.1 | 1198.4 |
| 5°    | 1270.0 | 1277.2 | 1276.7 | 1278.7 | 1281.3 | 1282.8 | 1281.8 | 1267.5 | 1248.5 | 1233.7 |
| 7.5°  | 1248.5 | 1256.7 | 1263.4 | 1273.6 | 1291.5 | 1310.5 | 1319.7 | 1316.6 | 1297.2 | 1276.7 |
| 10°   | 1187.6 | 1196.3 | 1212.2 | 1236.2 | 1274.1 | 1315.1 | 1349.4 | 1365.2 | 1353.0 | 1330.4 |
| 12.5° | 1076.0 | 1084.7 | 1115.9 | 1168.2 | 1231.6 | 1302.8 | 1368.3 | 1410.8 | 1413.9 | 1391.3 |
| 15°   | 950.6  | 959.3  | 992.6  | 1058.1 | 1154.9 | 1269.0 | 1378.6 | 1458.9 | 1486.1 | 1466.6 |
| 17.5° | 872.8  | 880.5  | 905.6  | 958.3  | 1059.1 | 1201.4 | 1375.0 | 1510.1 | 1572.1 | 1556.7 |
| 20°   | 849.2  | 855.9  | 867.7  | 904.5  | 988.5  | 1131.3 | 1351.4 | 1558.2 | 1664.7 | 1656.0 |
| 22.5° | 874.3  | 880.5  | 884.1  | 900.4  | 953.2  | 1085.2 | 1321.7 | 1607.4 | 1772.2 | 1773.2 |
| 25°   | 932.2  | 938.3  | 934.2  | 944.5  | 967.5  | 1070.9 | 1310.5 | 1665.2 | 1907.3 | 1918.6 |
| 27.5° | 1027.4 | 1027.9 | 1018.2 | 1017.7 | 1021.2 | 1092.4 | 1322.2 | 1727.2 | 2077.8 | 2098.8 |
| 30°   | 1218.3 | 1210.6 | 1173.3 | 1132.8 | 1114.4 | 1156.9 | 1355.0 | 1800.4 | 2279.0 | 2316.4 |
| 32.5° | 1512.7 | 1501.4 | 1432.8 | 1336.1 | 1238.8 | 1260.8 | 1413.9 | 1883.8 | 2498.1 | 2565.7 |
| 35°   | 1832.1 | 1829.0 | 1757.4 | 1613.5 | 1443.6 | 1408.8 | 1509.6 | 1993.3 | 2737.1 | 2844.6 |
| 37.5° | 2129.0 | 2127.5 | 2086.5 | 1917.1 | 1710.3 | 1615.1 | 1663.2 | 2136.7 | 2993.1 | 3148.7 |
| 40°   | 2400.3 | 2404.9 | 2364.0 | 2212.4 | 2004.1 | 1879.7 | 1872.0 | 2313.8 | 3277.7 | 3479.9 |
| 42.5° | 2634.8 | 2639.9 | 2598.4 | 2486.3 | 2294.3 | 2172.5 | 2128.5 | 2530.8 | 3555.7 | 3835.7 |
| 45°   | 2794.0 | 2825.7 | 2819.6 | 2730.0 | 2592.3 | 2465.8 | 2436.7 | 2803.2 | 3872.5 | 4213.0 |
| 47.5° | 2839.0 | 2868.2 | 2914.3 | 2926.5 | 2842.6 | 2718.2 | 2753.0 | 3131.3 | 4193.0 | 4590.7 |
| 50°   | 2727.9 | 2755.1 | 2850.8 | 2978.2 | 3036.6 | 2998.2 | 3060.7 | 3483.0 | 4521.1 | 4967.5 |
| 52.5° | 2508.8 | 2536.5 | 2657.3 | 2859.0 | 3097.0 | 3217.8 | 3369.3 | 3829.5 | 4839.0 | 5324.3 |
| 55°   | 2192.0 | 2221.1 | 2376.2 | 2604.6 | 2981.8 | 3308.4 | 3626.8 | 4175.6 | 5130.3 | 5645.3 |
| 57.5° | 1760.9 | 1782.4 | 1943.7 | 2263.1 | 2692.1 | 3218.3 | 3816.7 | 4553.4 | 5404.7 | 5960.6 |
| 60°   | 1147.7 | 1166.6 | 1354.0 | 1710.3 | 2211.9 | 2917.3 | 3854.6 | 4974.7 | 5769.1 | 6370.6 |
| 62.5° | 763.2  | 776.0  | 887.1  | 1148.7 | 1557.7 | 2339.4 | 3633.0 | 5311.0 | 6303.6 | 7084.2 |
| 65°   | 523.7  | 536.5  | 647.6  | 829.8  | 1006.4 | 1547.5 | 2995.7 | 5266.4 | 6787.8 | 7650.9 |
| 67.5° | 373.7  | 384.4  | 478.6  | 650.6  | 728.4  | 898.9  | 2030.7 | 4697.2 | 6718.2 | 7672.4 |
| 70°   | 267.7  | 273.9  | 351.7  | 506.8  | 579.0  | 540.1  | 1129.3 | 3592.5 | 5882.3 | 7084.7 |
| 72.5° | 187.4  | 189.4  | 244.2  | 386.0  | 466.3  | 394.2  | 537.5  | 2395.2 | 4448.9 | 5560.8 |
| 75°   | 127.0  | 129.5  | 164.3  | 283.1  | 374.2  | 301.0  | 284.6  | 1284.4 | 2611.7 | 3078.1 |
| 77.5° | 77.8   | 78.8   | 106.0  | 193.5  | 280.0  | 229.3  | 183.3  | 544.2  | 1010.5 | 992.1  |
| 80°   | 44.0   | 44.0   | 67.6   | 120.3  | 190.9  | 147.9  | 128.5  | 231.4  | 319.9  | 281.0  |
| 82.5° | 24.6   | 25.1   | 49.1   | 74.7   | 126.4  | 87.5   | 70.6   | 107.0  | 138.2  | 122.3  |
| 85°   | 10.2   | 11.3   | 30.2   | 35.3   | 60.4   | 43.5   | 28.7   | 45.0   | 51.2   | 45.6   |
| 87.5° | 1.0    | 1.5    | 9.2    | 6.7    | 7.2    | 8.7    | 4.1    | 8.7    | 7.2    | 7.2    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

REPORT NUMBER: P939324

CATALOG NUMBER: GLAN-SB1D-840-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

| 85°    |       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1177.9 | 0°    | 1177.9 | 1177.9 | 1177.9 | 1177.9 | 1177.9 | 1177.9 | 1177.9 | 1177.9 | 1177.9 | 1177.9 |
| 1195.3 | 2.5°  | 1185.6 | 1177.9 | 1158.4 | 1135.9 | 1106.2 | 1091.9 | 1072.4 | 1059.1 | 1047.9 | 1048.9 |
| 1225.0 | 5°    | 1208.6 | 1189.1 | 1145.6 | 1091.4 | 1023.8 | 975.7  | 924.5  | 889.2  | 860.5  | 854.4  |
| 1265.9 | 7.5°  | 1240.3 | 1209.6 | 1133.4 | 1035.6 | 921.4  | 834.9  | 757.6  | 708.0  | 672.6  | 661.4  |
| 1315.6 | 10°   | 1281.3 | 1236.8 | 1117.5 | 965.4  | 801.1  | 691.1  | 608.1  | 569.2  | 545.2  | 537.0  |
| 1373.9 | 12.5° | 1328.9 | 1268.0 | 1096.5 | 880.0  | 677.2  | 571.3  | 518.6  | 499.1  | 491.4  | 488.9  |
| 1445.6 | 15°   | 1388.8 | 1306.9 | 1064.8 | 778.6  | 572.3  | 498.1  | 475.6  | 473.0  | 474.0  | 473.0  |
| 1531.6 | 17.5° | 1459.9 | 1349.4 | 1013.1 | 674.2  | 501.7  | 460.7  | 452.5  | 454.6  | 457.1  | 456.6  |
| 1627.8 | 20°   | 1537.8 | 1391.3 | 947.0  | 581.5  | 453.5  | 434.1  | 429.5  | 431.5  | 433.6  | 432.6  |
| 1738.9 | 22.5° | 1626.3 | 1436.4 | 873.8  | 509.3  | 421.3  | 409.5  | 404.4  | 404.9  | 404.9  | 402.9  |
| 1879.7 | 25°   | 1732.3 | 1486.1 | 797.0  | 458.2  | 396.7  | 387.5  | 381.4  | 379.3  | 376.2  | 370.1  |
| 2050.7 | 27.5° | 1858.7 | 1538.8 | 723.3  | 422.3  | 377.3  | 368.6  | 361.4  | 356.3  | 348.6  | 338.4  |
| 2256.0 | 30°   | 2001.0 | 1602.8 | 660.9  | 399.8  | 361.9  | 353.2  | 345.0  | 337.3  | 326.1  | 313.3  |
| 2491.9 | 32.5° | 2168.4 | 1671.4 | 615.3  | 385.0  | 348.1  | 338.9  | 329.2  | 319.9  | 307.7  | 294.9  |
| 2757.1 | 35°   | 2368.1 | 1754.3 | 588.7  | 374.7  | 337.3  | 325.1  | 314.3  | 304.1  | 294.9  | 283.6  |
| 3045.3 | 37.5° | 2584.6 | 1842.3 | 580.5  | 369.6  | 330.2  | 311.2  | 299.0  | 291.8  | 290.8  | 284.1  |
| 3357.1 | 40°   | 2821.6 | 1946.8 | 586.6  | 366.5  | 322.5  | 297.9  | 284.6  | 283.1  | 285.6  | 273.9  |
| 3690.3 | 42.5° | 3072.4 | 2070.6 | 596.9  | 362.9  | 311.7  | 284.6  | 271.8  | 271.8  | 269.8  | 253.4  |
| 4042.5 | 45°   | 3343.7 | 2213.5 | 607.1  | 354.2  | 299.0  | 271.3  | 261.6  | 258.0  | 249.3  | 233.4  |
| 4396.7 | 47.5° | 3617.1 | 2358.8 | 614.8  | 338.4  | 283.6  | 260.0  | 251.3  | 243.2  | 230.4  | 216.0  |
| 4744.3 | 50°   | 3876.6 | 2489.4 | 606.6  | 314.8  | 266.2  | 249.3  | 240.1  | 228.8  | 215.0  | 205.3  |
| 5073.5 | 52.5° | 4108.5 | 2602.5 | 571.8  | 287.2  | 247.8  | 238.0  | 229.8  | 218.1  | 206.8  | 196.6  |
| 5370.4 | 55°   | 4310.2 | 2694.1 | 510.4  | 261.1  | 231.4  | 228.3  | 220.1  | 205.3  | 189.9  | 181.2  |
| 5664.7 | 57.5° | 4503.7 | 2763.8 | 433.6  | 239.6  | 216.5  | 217.6  | 205.3  | 192.0  | 177.6  | 168.4  |
| 6061.4 | 60°   | 4761.2 | 2856.9 | 355.8  | 219.6  | 200.7  | 203.7  | 190.4  | 180.7  | 162.8  | 151.0  |
| 6741.7 | 62.5° | 5172.8 | 3001.8 | 282.6  | 195.0  | 182.2  | 183.3  | 177.6  | 165.9  | 144.4  | 130.5  |
| 7246.0 | 65°   | 5499.4 | 2948.6 | 222.7  | 168.4  | 161.2  | 162.8  | 162.8  | 150.0  | 127.0  | 111.1  |
| 7273.1 | 67.5° | 5462.5 | 2524.7 | 177.6  | 142.3  | 141.3  | 142.3  | 145.9  | 135.1  | 112.6  | 99.8   |
| 6719.2 | 70°   | 5032.0 | 2008.2 | 142.3  | 118.2  | 122.9  | 120.3  | 130.5  | 123.4  | 101.4  | 88.6   |
| 5209.1 | 72.5° | 4106.0 | 1446.6 | 108.5  | 97.8   | 94.2   | 98.3   | 117.7  | 111.1  | 84.5   | 70.1   |
| 2759.2 | 75°   | 2399.3 | 771.9  | 80.9   | 77.3   | 68.1   | 81.9   | 104.4  | 94.7   | 64.5   | 51.7   |
| 845.7  | 77.5° | 781.2  | 269.3  | 59.4   | 56.8   | 50.7   | 66.0   | 89.1   | 79.9   | 52.7   | 41.0   |
| 247.8  | 80°   | 209.4  | 81.4   | 40.4   | 37.4   | 32.8   | 49.1   | 70.6   | 63.5   | 37.9   | 26.6   |
| 106.5  | 82.5° | 84.0   | 34.3   | 23.5   | 21.0   | 17.9   | 33.8   | 55.8   | 51.2   | 28.2   | 16.9   |
| 33.3   | 85°   | 27.1   | 11.3   | 8.7    | 6.7    | 8.2    | 21.0   | 33.3   | 34.8   | 20.0   | 8.7    |
| 5.1    | 87.5° | 3.6    | 1.5    | 1.5    | 2.0    | 1.5    | 3.6    | 10.2   | 9.7    | 5.6    | 1.0    |
| 0.0    | 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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| 180°   |
|--------|
| 1177.9 |
| 1038.6 |
| 840.5  |
| 650.1  |
| 530.8  |
| 487.3  |
| 472.5  |
| 455.6  |
| 432.0  |
| 401.8  |
| 369.1  |
| 337.3  |
| 312.3  |
| 295.4  |
| 282.6  |
| 283.6  |
| 274.4  |
| 253.4  |
| 232.9  |
| 215.5  |
| 203.7  |
| 195.5  |
| 180.2  |
| 167.4  |
| 149.5  |
| 129.5  |
| 109.5  |
| 97.8   |
| 87.0   |
| 68.6   |
| 50.2   |
| 39.4   |
| 26.1   |
| 16.9   |
| 6.7    |
| 0.0    |
| 0.0    |