

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: P648707

Luminaire Tested: **GLAN-SA1C-835-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648707
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA1C-835-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4582.1 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G2

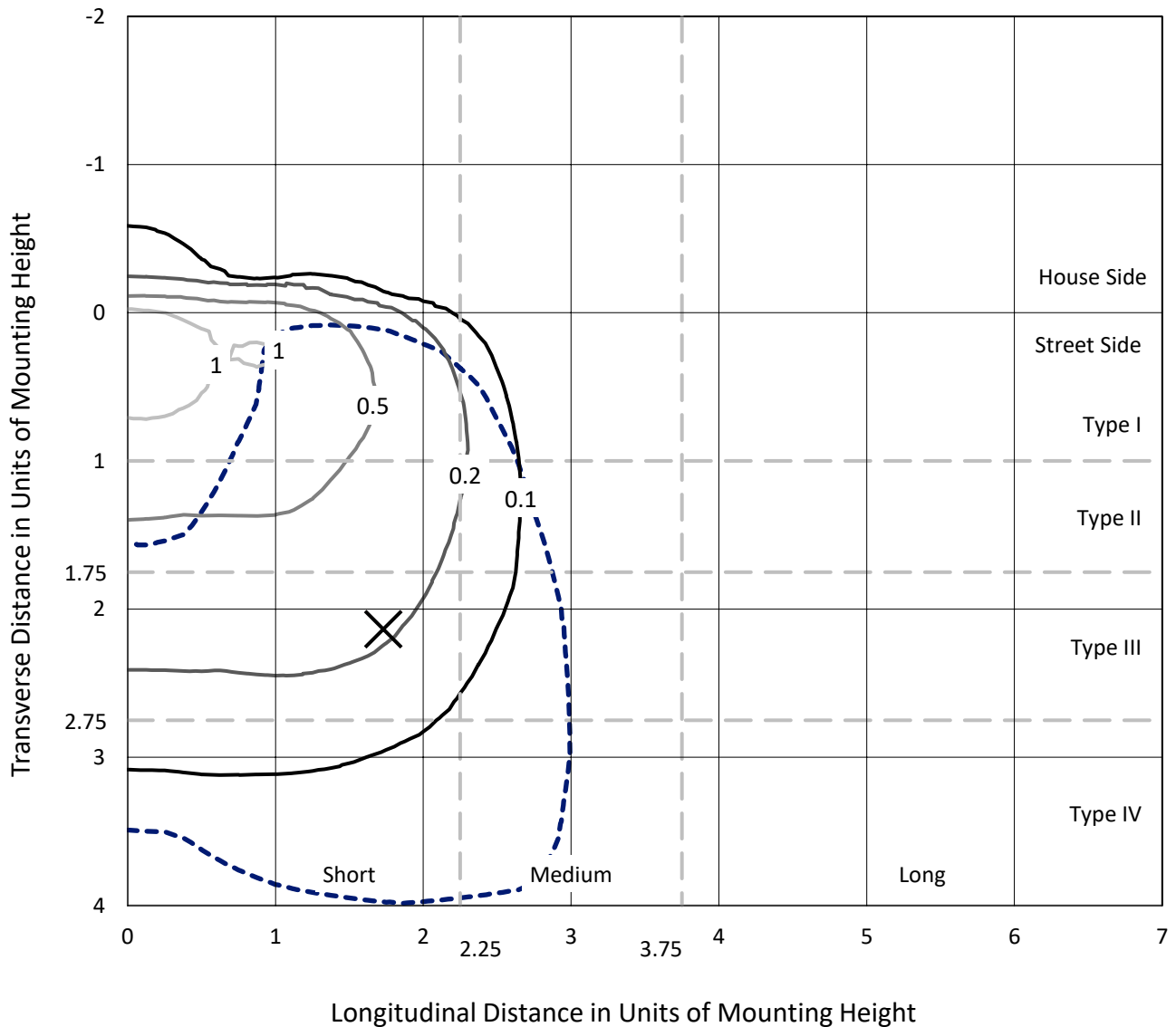
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P648707
 CATALOG NUMBER: GLAN-SA1C-835-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

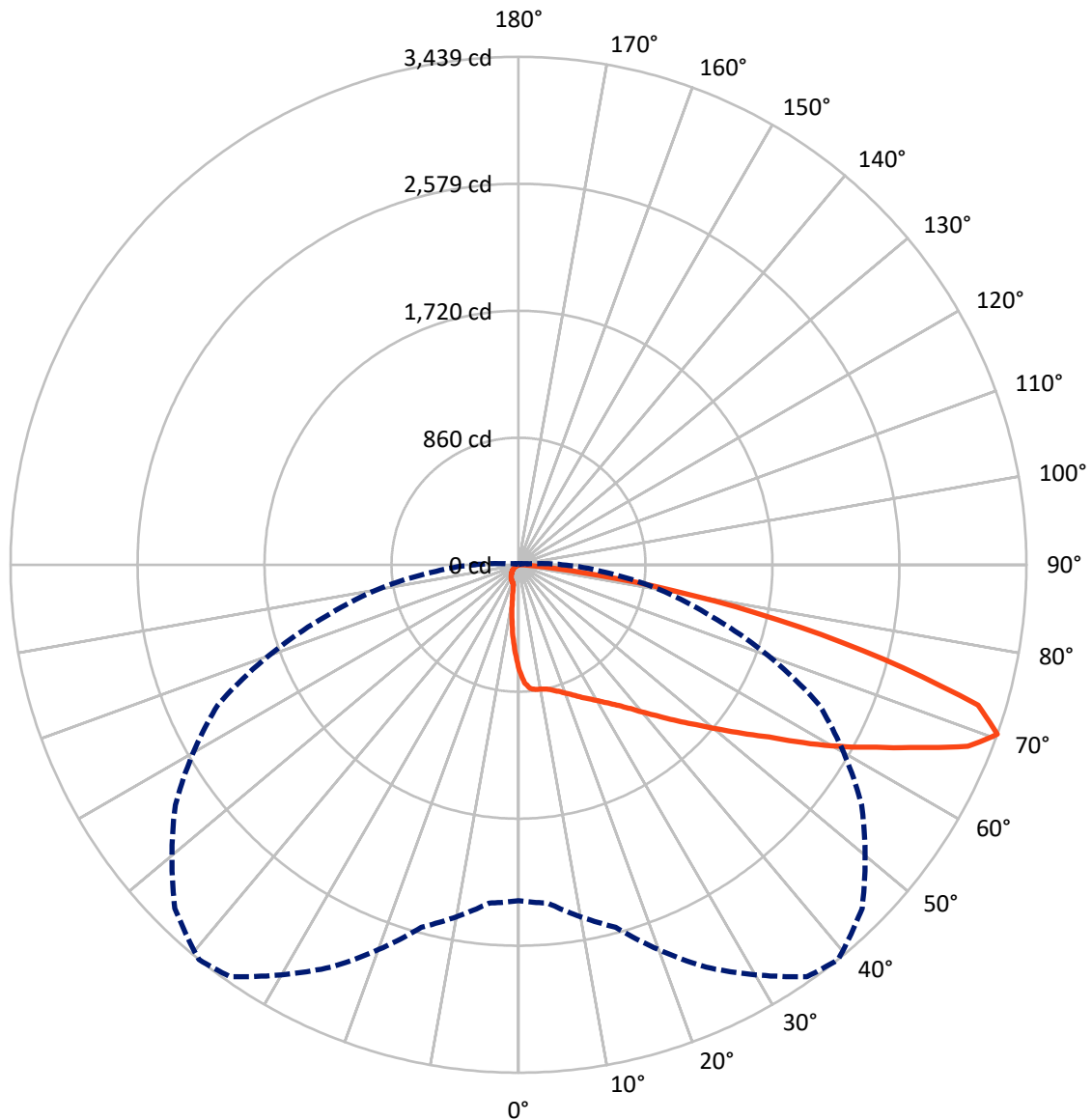
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type IV - Short - N/A

REPORT NUMBER: P648707
CATALOG NUMBER: GLAN-SA1C-835-U-SL4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



REPORT NUMBER: P648707
 CATALOG NUMBER: GLAN-SA1C-835-U-SL4-HSS

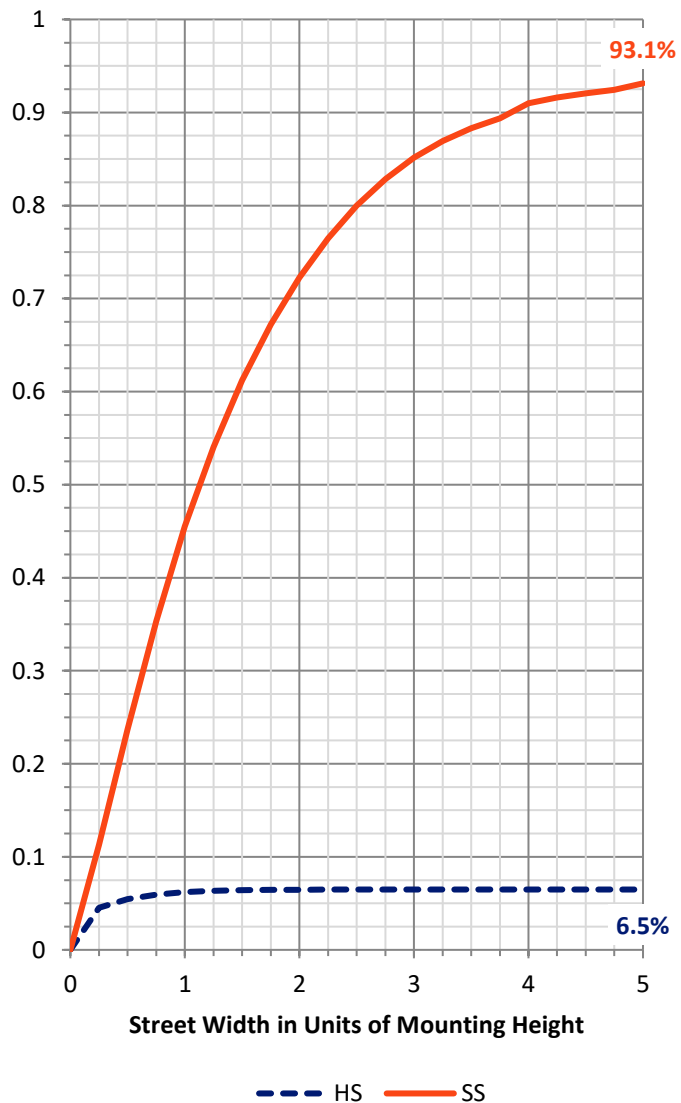
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 298.8 | 0.0 | 298.8 |
| | % Fixture | 6.5 | 0.0 | 6.5 |
| Street Side | Lumens | 4283.3 | 0.0 | 4283.3 |
| | % Fixture | 93.5 | 0.0 | 93.5 |
| Total | Lumens | 4582.1 | 0.0 | 4582.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 61.0 | 1.3 |
| 10°-20° | 158.5 | 3.5 |
| 20°-30° | 265.5 | 5.8 |
| 30°-40° | 411.7 | 9.0 |
| 40°-50° | 652.5 | 14.2 |
| 50°-60° | 956.4 | 20.9 |
| 60°-70° | 1225.9 | 26.8 |
| 70°-80° | 770.3 | 16.8 |
| 80°-90° | 80.3 | 1.8 |
| 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° | 4582.1 | 100.0 |
| 0°-180° | 4582.1 | 100.0 |

Coefficient of Utilization

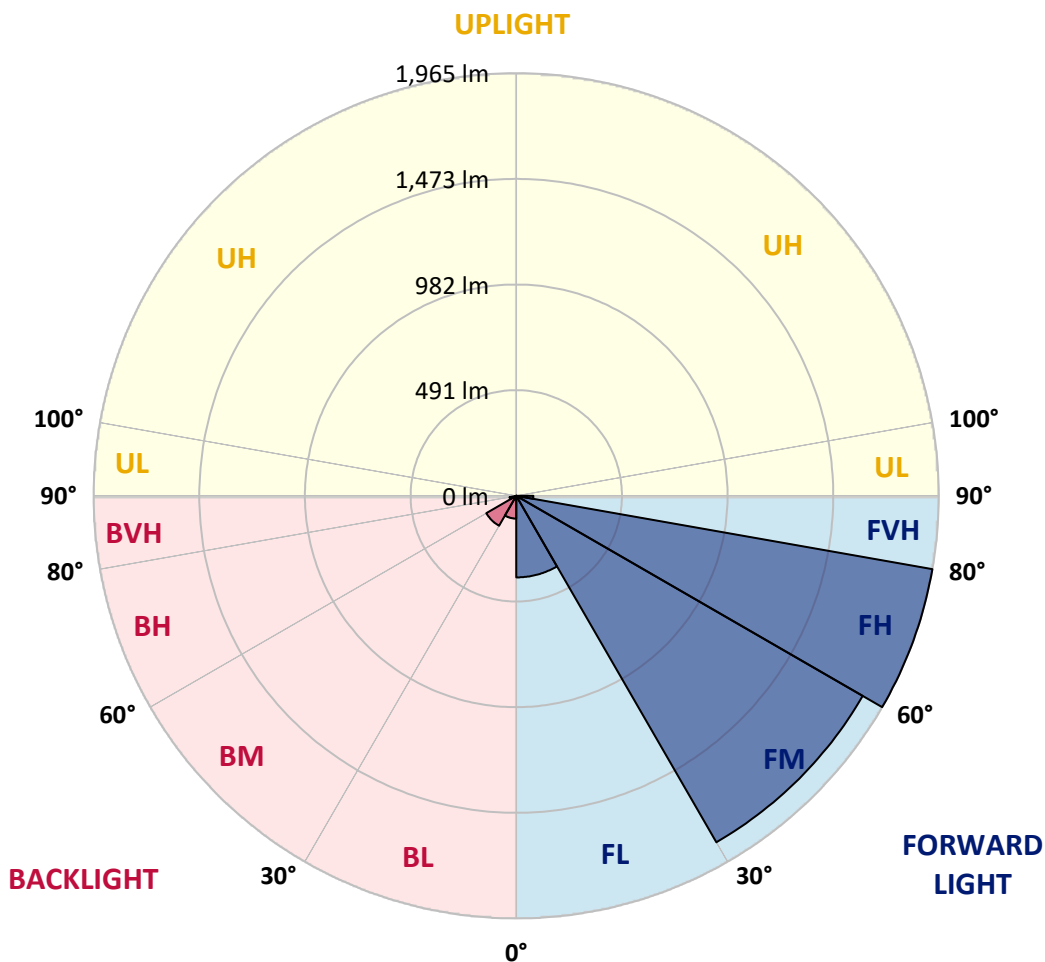


REPORT NUMBER: P648707
 CATALOG NUMBER: GLAN-SA1C-835-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 379.1 | 8.3 | | | |
| FM (30°-60°) | 1859.9 | 40.6 | | | |
| FH (60°-80°) | 1964.7 | 42.9 | | | G2/5000 |
| FVH (80°-90°) | 79.7 | 1.7 | | | G1/100 |
| BL (0°-30°) | 105.8 | 2.3 | B0/110 | | |
| BM (30°-60°) | 160.8 | 3.5 | B0/220 | | |
| BH (60°-80°) | 31.6 | 0.7 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.6 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B0-U0-G2
 Type IV Short





REPORT NUMBER: P648707

CATALOG NUMBER: GLAN-SA1C-835-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 39° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 715.0 | 715.0 | 715.0 | 715.0 | 715.0 | 715.0 | 715.0 | 715.0 | 715.0 | 715.0 | 715.0 |
| 2.5° | 826.1 | 823.3 | 819.6 | 815.3 | 803.0 | 800.9 | 793.5 | 777.8 | 759.0 | 743.6 | 722.4 |
| 5° | 865.2 | 866.8 | 864.0 | 856.3 | 847.4 | 842.1 | 832.9 | 808.6 | 784.3 | 753.2 | 718.3 |
| 7.5° | 874.1 | 877.3 | 873.8 | 866.5 | 857.9 | 852.3 | 844.9 | 824.0 | 795.6 | 760.2 | 712.5 |
| 10° | 873.2 | 877.0 | 874.8 | 868.0 | 860.9 | 855.7 | 847.7 | 831.1 | 808.3 | 771.0 | 714.3 |
| 12.5° | 871.7 | 876.6 | 876.3 | 872.9 | 867.1 | 863.1 | 858.2 | 843.4 | 822.2 | 786.7 | 724.5 |
| 15° | 867.4 | 873.5 | 879.1 | 881.9 | 882.1 | 882.1 | 876.0 | 860.3 | 840.0 | 807.4 | 737.7 |
| 17.5° | 869.2 | 876.3 | 890.2 | 898.2 | 903.7 | 903.1 | 896.6 | 879.7 | 857.2 | 828.6 | 751.6 |
| 20° | 880.6 | 890.2 | 909.5 | 925.6 | 931.1 | 929.3 | 920.7 | 900.9 | 875.4 | 846.7 | 765.1 |
| 22.5° | 908.7 | 917.3 | 941.6 | 960.3 | 964.3 | 959.4 | 947.1 | 920.3 | 897.2 | 866.5 | 781.5 |
| 25° | 950.5 | 960.7 | 983.1 | 997.3 | 997.3 | 994.6 | 977.3 | 945.9 | 921.9 | 893.9 | 802.7 |
| 27.5° | 1001.3 | 1009.9 | 1032.2 | 1044.8 | 1037.3 | 1029.3 | 1012.1 | 974.2 | 951.1 | 928.3 | 828.3 |
| 30° | 1052.7 | 1058.3 | 1081.7 | 1087.2 | 1079.5 | 1069.3 | 1050.9 | 1013.0 | 992.7 | 975.1 | 865.2 |
| 32.5° | 1101.4 | 1113.4 | 1132.8 | 1131.6 | 1121.1 | 1116.2 | 1099.3 | 1058.9 | 1047.5 | 1045.7 | 917.0 |
| 35° | 1150.1 | 1159.3 | 1176.5 | 1180.8 | 1171.6 | 1170.7 | 1158.4 | 1128.5 | 1128.8 | 1140.8 | 997.6 |
| 37.5° | 1191.9 | 1200.3 | 1220.5 | 1230.1 | 1232.0 | 1236.6 | 1231.7 | 1211.9 | 1240.0 | 1272.9 | 1104.5 |
| 40° | 1227.0 | 1238.7 | 1264.6 | 1281.2 | 1300.3 | 1317.2 | 1318.2 | 1322.5 | 1378.8 | 1435.5 | 1244.0 |
| 42.5° | 1254.4 | 1270.7 | 1308.3 | 1339.1 | 1382.9 | 1404.4 | 1421.6 | 1445.3 | 1540.2 | 1624.8 | 1408.4 |
| 45° | 1290.1 | 1308.9 | 1355.8 | 1404.1 | 1472.4 | 1507.8 | 1531.9 | 1595.3 | 1729.8 | 1845.3 | 1577.1 |
| 47.5° | 1349.3 | 1359.1 | 1406.8 | 1477.4 | 1567.3 | 1617.8 | 1664.6 | 1760.7 | 1933.4 | 2036.8 | 1717.5 |
| 50° | 1425.3 | 1431.8 | 1467.8 | 1565.7 | 1682.1 | 1748.6 | 1833.9 | 1946.9 | 2144.6 | 2195.7 | 1797.0 |
| 52.5° | 1509.4 | 1511.5 | 1538.6 | 1663.0 | 1810.8 | 1894.5 | 1990.0 | 2129.5 | 2316.7 | 2309.0 | 1849.6 |
| 55° | 1607.0 | 1603.9 | 1627.0 | 1768.6 | 1963.2 | 2059.0 | 2170.2 | 2316.4 | 2466.1 | 2389.4 | 1879.8 |
| 57.5° | 1718.8 | 1710.5 | 1732.9 | 1908.7 | 2158.4 | 2273.0 | 2386.0 | 2477.7 | 2581.9 | 2456.8 | 1894.2 |
| 60° | 1835.7 | 1819.1 | 1845.9 | 2066.1 | 2388.5 | 2497.1 | 2591.0 | 2615.7 | 2703.8 | 2510.4 | 1869.3 |
| 62.5° | 1929.1 | 1929.4 | 1979.3 | 2233.6 | 2624.9 | 2720.1 | 2769.9 | 2792.1 | 2808.8 | 2498.7 | 1738.2 |
| 65° | 2074.7 | 2079.6 | 2159.4 | 2466.1 | 2898.7 | 2981.2 | 3015.3 | 2943.3 | 2813.4 | 2353.4 | 1541.1 |
| 67.5° | 2225.0 | 2240.6 | 2386.6 | 2786.3 | 3214.9 | 3281.4 | 3237.4 | 2972.6 | 2687.7 | 2021.7 | 1168.5 |
| 70° | 2273.9 | 2299.7 | 2540.3 | 3006.7 | 3404.6 | 3439.0 | 3290.0 | 2836.2 | 2246.8 | 1351.7 | 588.1 |
| 72.5° | 2083.6 | 2125.5 | 2451.9 | 2926.4 | 3283.6 | 3253.7 | 2943.6 | 2378.6 | 1428.4 | 513.3 | 179.5 |
| 75° | 1469.4 | 1487.9 | 2037.8 | 2427.5 | 2641.0 | 2556.3 | 2239.1 | 1533.4 | 587.5 | 144.1 | 61.5 |
| 77.5° | 758.7 | 749.7 | 1211.9 | 1610.7 | 1883.5 | 1795.7 | 1466.2 | 793.8 | 222.6 | 60.1 | 38.2 |
| 80° | 392.3 | 398.8 | 524.4 | 844.0 | 1149.8 | 1058.0 | 781.7 | 367.9 | 118.5 | 33.3 | 29.3 |
| 82.5° | 219.9 | 206.3 | 301.5 | 368.6 | 537.6 | 421.6 | 299.9 | 260.5 | 51.8 | 20.0 | 27.7 |
| 85° | 40.0 | 41.9 | 165.4 | 199.2 | 186.6 | 118.5 | 96.7 | 174.0 | 15.1 | 11.1 | 19.4 |
| 87.5° | 0.6 | 0.6 | 32.0 | 57.2 | 36.3 | 16.6 | 30.5 | 25.0 | 3.1 | 4.3 | 3.4 |
| 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: P648707

CATALOG NUMBER: GLAN-SA1C-835-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 715.0 | 715.0 | 715.0 | 715.0 | 715.0 | 715.0 | 715.0 | 715.0 | 715.0 | 715.0 | 715.0 |
| 2.5° | 711.6 | 699.8 | 678.0 | 656.5 | 629.1 | 606.6 | 591.5 | 575.8 | 559.8 | 561.0 | 564.7 |
| 5° | 699.3 | 678.9 | 635.8 | 590.2 | 546.5 | 507.1 | 468.3 | 433.5 | 419.4 | 406.5 | 407.1 |
| 7.5° | 686.9 | 658.3 | 595.2 | 523.7 | 457.6 | 390.4 | 341.8 | 301.8 | 280.5 | 264.5 | 259.9 |
| 10° | 681.4 | 643.5 | 558.0 | 459.7 | 365.8 | 292.5 | 230.0 | 197.4 | 172.1 | 164.1 | 166.3 |
| 12.5° | 683.9 | 636.1 | 524.4 | 401.8 | 290.0 | 203.8 | 160.1 | 143.5 | 138.0 | 137.0 | 136.4 |
| 15° | 688.5 | 630.9 | 491.4 | 337.8 | 213.1 | 151.5 | 134.5 | 131.5 | 130.8 | 130.2 | 130.5 |
| 17.5° | 694.7 | 626.3 | 456.3 | 277.7 | 163.5 | 132.4 | 127.5 | 125.9 | 125.6 | 125.6 | 125.6 |
| 20° | 700.8 | 621.1 | 417.2 | 224.2 | 136.4 | 125.0 | 121.9 | 121.0 | 120.7 | 120.7 | 120.4 |
| 22.5° | 707.9 | 616.5 | 377.5 | 176.1 | 125.6 | 119.8 | 117.0 | 116.4 | 116.1 | 115.8 | 115.8 |
| 25° | 718.0 | 610.6 | 335.3 | 144.1 | 118.9 | 114.9 | 112.0 | 111.5 | 111.2 | 109.9 | 110.2 |
| 27.5° | 731.6 | 606.3 | 291.9 | 124.4 | 112.7 | 108.7 | 106.9 | 105.9 | 105.3 | 104.4 | 104.7 |
| 30° | 750.0 | 602.6 | 245.7 | 113.6 | 105.6 | 102.3 | 100.4 | 99.8 | 99.1 | 98.2 | 98.2 |
| 32.5° | 782.1 | 604.1 | 197.1 | 105.0 | 99.1 | 95.1 | 93.3 | 92.7 | 92.1 | 91.1 | 91.1 |
| 35° | 830.1 | 613.0 | 157.6 | 97.6 | 91.5 | 87.5 | 85.6 | 85.6 | 84.6 | 83.5 | 83.2 |
| 37.5° | 908.7 | 635.8 | 126.5 | 90.5 | 84.1 | 80.3 | 78.2 | 77.6 | 76.7 | 74.9 | 74.5 |
| 40° | 1001.3 | 671.3 | 106.6 | 83.5 | 77.3 | 73.6 | 71.7 | 69.9 | 67.4 | 65.6 | 65.3 |
| 42.5° | 1117.7 | 707.6 | 92.4 | 76.3 | 70.8 | 67.4 | 65.3 | 62.2 | 58.5 | 56.1 | 55.7 |
| 45° | 1239.0 | 740.8 | 82.8 | 69.9 | 64.7 | 61.9 | 59.4 | 54.5 | 49.9 | 46.8 | 46.5 |
| 47.5° | 1329.5 | 747.0 | 75.2 | 63.7 | 59.4 | 56.7 | 53.2 | 47.1 | 41.0 | 38.2 | 37.3 |
| 50° | 1372.4 | 717.1 | 67.1 | 57.6 | 54.2 | 51.1 | 46.8 | 39.7 | 33.0 | 29.6 | 29.0 |
| 52.5° | 1387.5 | 665.4 | 60.7 | 52.1 | 48.9 | 45.3 | 40.0 | 32.0 | 25.8 | 22.5 | 22.2 |
| 55° | 1381.3 | 600.1 | 54.8 | 46.8 | 42.8 | 38.5 | 33.3 | 25.5 | 19.1 | 16.3 | 15.7 |
| 57.5° | 1349.0 | 517.0 | 48.9 | 41.6 | 36.6 | 32.3 | 26.5 | 19.1 | 12.9 | 10.5 | 10.2 |
| 60° | 1261.8 | 403.6 | 43.1 | 35.7 | 31.1 | 26.5 | 20.9 | 13.5 | 8.0 | 5.9 | 5.9 |
| 62.5° | 1114.6 | 299.6 | 37.6 | 29.8 | 26.2 | 21.2 | 14.8 | 8.6 | 4.3 | 3.1 | 2.7 |
| 65° | 931.5 | 221.0 | 31.4 | 25.2 | 21.8 | 16.6 | 10.5 | 5.2 | 2.2 | 0.9 | 0.6 |
| 67.5° | 650.0 | 136.4 | 26.2 | 20.6 | 17.9 | 12.0 | 6.5 | 2.2 | 0.9 | 0.0 | 0.0 |
| 70° | 295.3 | 65.0 | 20.0 | 15.7 | 13.5 | 8.6 | 3.4 | 1.3 | 0.6 | 0.0 | 0.0 |
| 72.5° | 91.8 | 34.2 | 14.2 | 11.4 | 9.2 | 5.6 | 1.9 | 0.9 | 0.6 | 0.0 | 0.0 |
| 75° | 42.5 | 21.8 | 8.9 | 6.2 | 5.2 | 2.7 | 1.3 | 0.6 | 0.3 | 0.0 | 0.0 |
| 77.5° | 31.7 | 16.9 | 5.2 | 3.4 | 2.7 | 1.9 | 0.9 | 0.6 | 0.3 | 0.0 | 0.0 |
| 80° | 27.7 | 8.6 | 3.1 | 2.2 | 1.6 | 1.3 | 0.6 | 0.3 | 0.0 | 0.0 | 0.0 |
| 82.5° | 25.0 | 4.3 | 1.9 | 1.3 | 0.9 | 0.6 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 |
| 85° | 13.5 | 2.4 | 1.3 | 0.9 | 0.6 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 2.4 | 1.3 | 0.9 | 0.6 | 0.6 | 0.3 | 0.3 | 0.3 | 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)