

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: P526043

Luminaire Tested: **GLAN-SA1A-727-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526043
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA1A-727-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2887 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

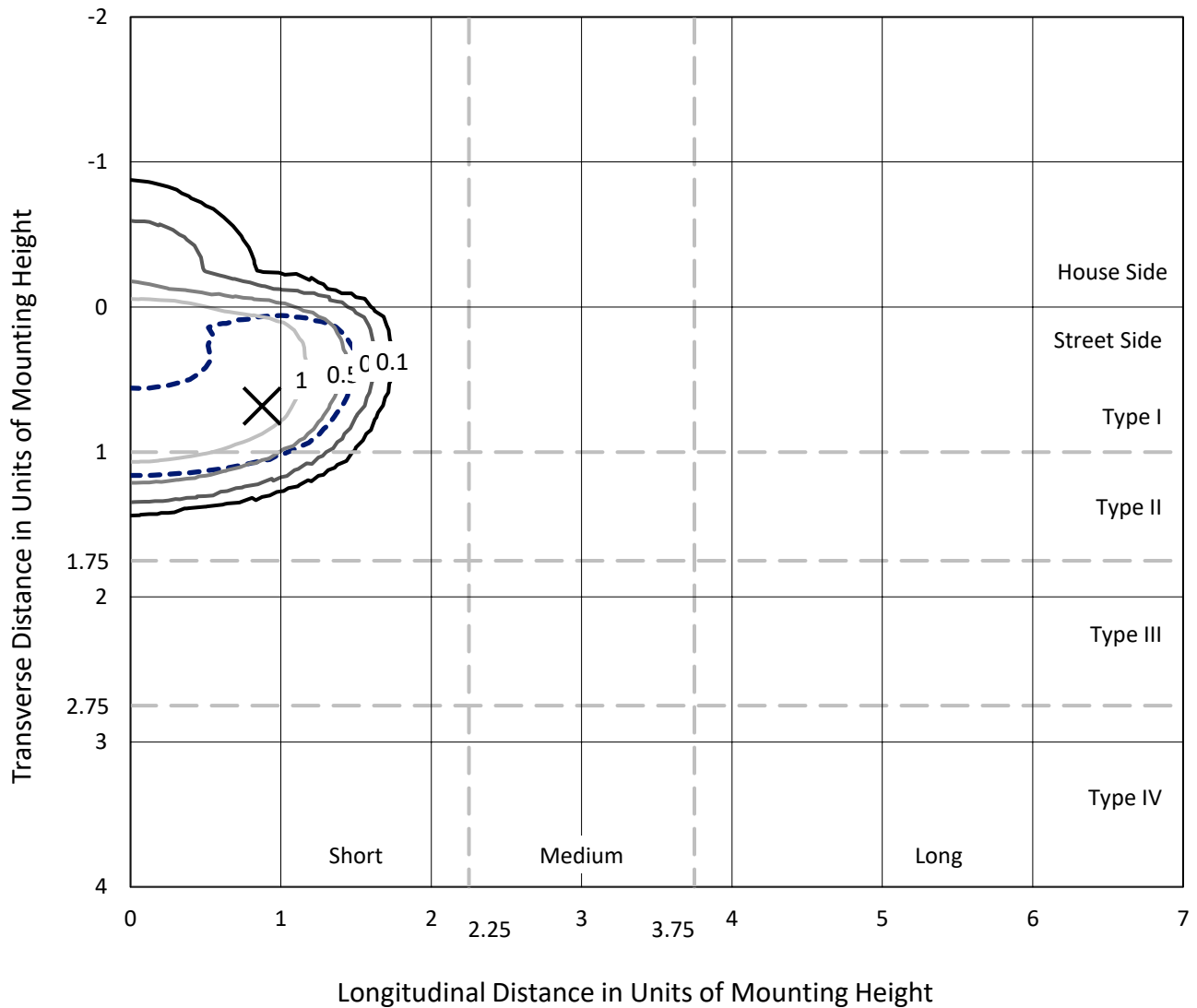
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P526043
 CATALOG NUMBER: GLAN-SA1A-727-U-AFL-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

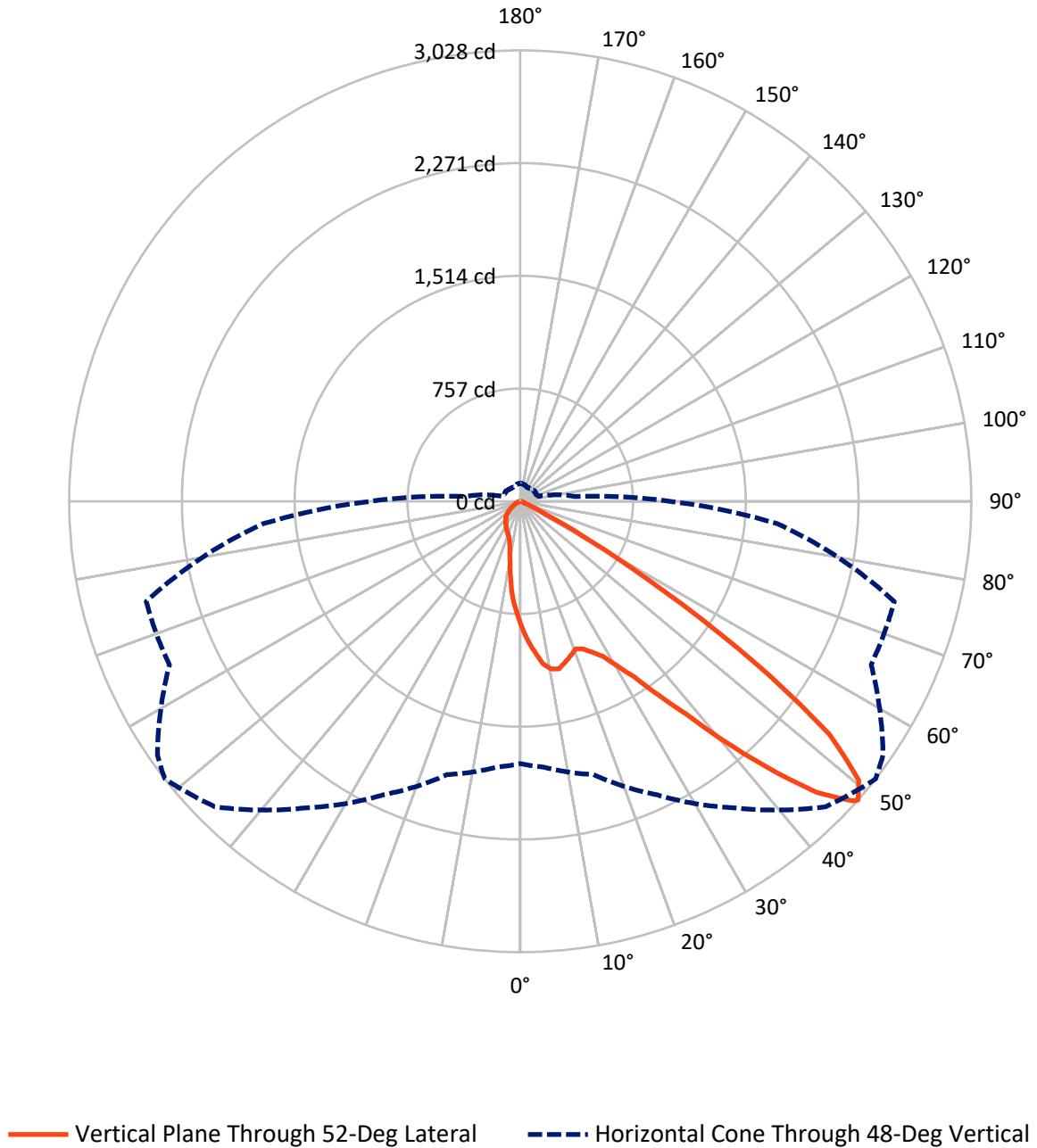
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P526043
CATALOG NUMBER: GLAN-SA1A-727-U-AFL-GRSBK

Luminous Intensity Polar Plot



REPORT NUMBER: P526043
 CATALOG NUMBER: GLAN-SA1A-727-U-AFL-GRSBK

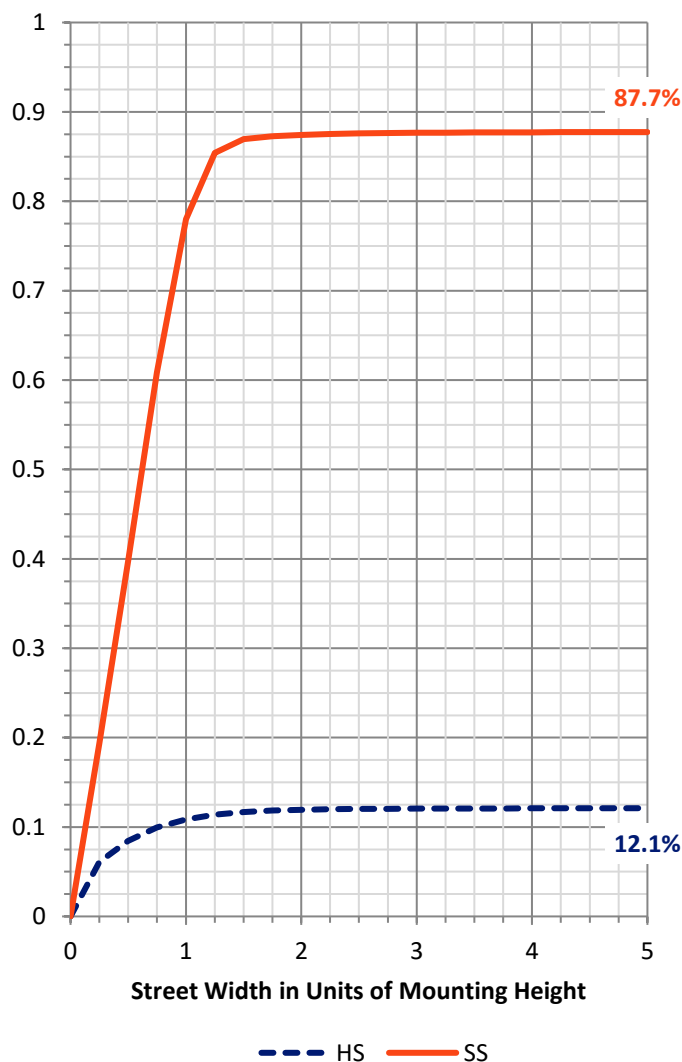
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 351.5 | 0.0 | 351.5 |
| | % Fixture | 12.2 | 0.0 | 12.2 |
| Street Side | Lumens | 2535.5 | 0.0 | 2535.5 |
| | % Fixture | 87.8 | 0.0 | 87.8 |
| Total | Lumens | 2887.0 | 0.0 | 2887.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 76.3 | 2.6 |
| 10°-20° | 199.4 | 6.9 |
| 20°-30° | 340.5 | 11.8 |
| 30°-40° | 627.0 | 21.7 |
| 40°-50° | 973.8 | 33.7 |
| 50°-60° | 586.0 | 20.3 |
| 60°-70° | 67.8 | 2.3 |
| 70°-80° | 13.1 | 0.5 |
| 80°-90° | 3.0 | 0.1 |
| 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° | 2887.0 | 100.0 |
| 0°-180° | 2887.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P526043

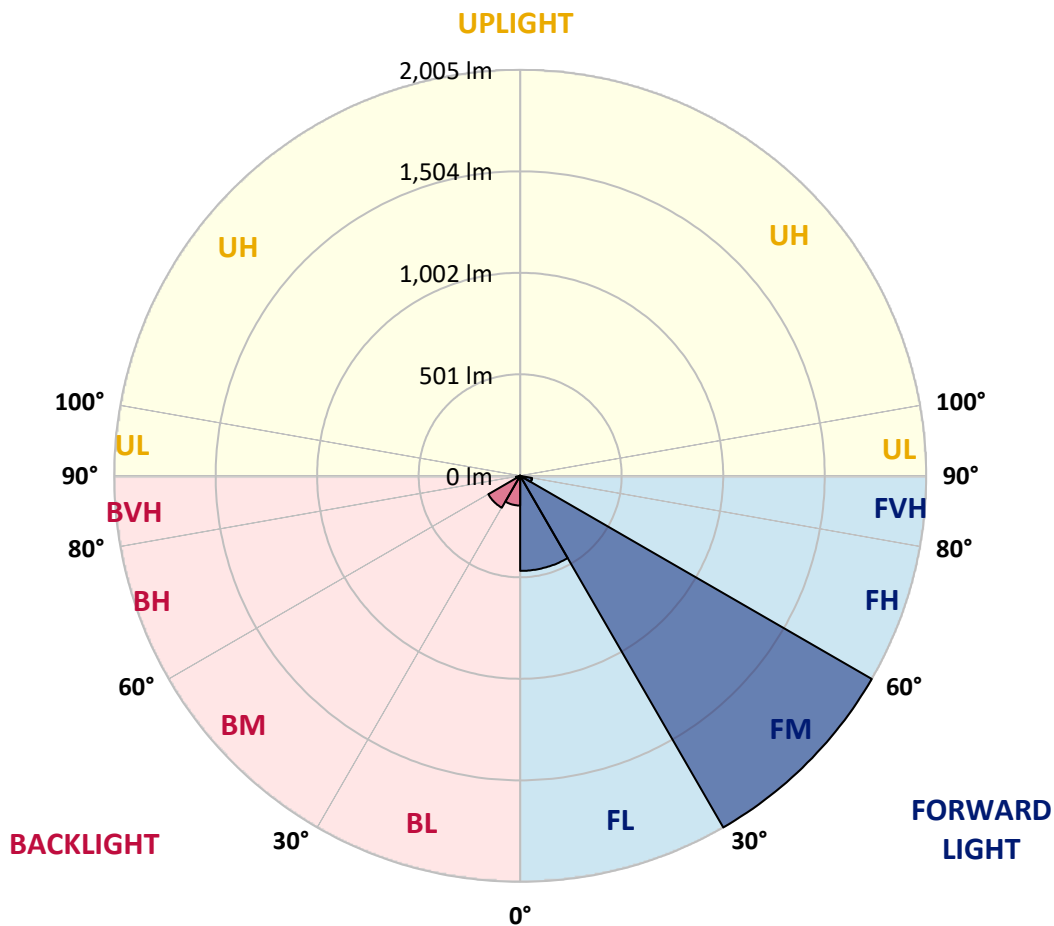
CATALOG NUMBER: GLAN-SA1A-727-U-AFL-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 469.4 | 16.3 | | | |
| FM (30°-60°) | 2005.0 | 69.4 | | | |
| FH (60°-80°) | 59.7 | 2.1 | | | G0/660 |
| FVH (80°-90°) | 1.4 | 0.0 | | | G0/10 |
| BL (0°-30°) | 146.8 | 5.1 | B1/500 | | |
| BM (30°-60°) | 181.9 | 6.3 | B0/220 | | |
| BH (60°-80°) | 21.2 | 0.7 | B0/110 | | G0/110 |
| BVH (80°-90°) | 1.6 | 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-G0

Type II Short





REPORT NUMBER: P526043

CATALOG NUMBER: GLAN-SA1A-727-U-AFL-GRSBK

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 52° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 833.7 | 833.7 | 833.7 | 833.7 | 833.7 | 833.7 | 833.7 | 833.7 | 833.7 | 833.7 | 833.7 |
| 2.5° | 1010.5 | 987.3 | 989.4 | 974.3 | 965.4 | 951.1 | 931.8 | 928.0 | 906.9 | 878.3 | 849.3 |
| 5° | 1101.4 | 1095.9 | 1103.1 | 1081.2 | 1082.0 | 1058.5 | 1013.0 | 1013.8 | 965.4 | 918.7 | 873.7 |
| 7.5° | 1107.3 | 1094.6 | 1101.8 | 1121.2 | 1132.5 | 1128.3 | 1102.6 | 1080.3 | 1034.5 | 965.9 | 900.2 |
| 10° | 991.5 | 1015.5 | 1023.1 | 1055.1 | 1100.5 | 1148.5 | 1145.6 | 1146.8 | 1108.5 | 1018.9 | 922.9 |
| 12.5° | 922.1 | 906.1 | 931.8 | 951.1 | 1019.7 | 1112.7 | 1155.3 | 1164.5 | 1167.5 | 1070.2 | 945.7 |
| 15° | 890.5 | 890.5 | 894.7 | 900.2 | 949.9 | 1035.7 | 1122.4 | 1149.4 | 1212.9 | 1137.6 | 981.4 |
| 17.5° | 910.3 | 909.5 | 915.4 | 904.0 | 922.5 | 988.6 | 1092.1 | 1122.8 | 1263.8 | 1203.7 | 1009.6 |
| 20° | 970.5 | 973.4 | 969.7 | 936.8 | 938.1 | 987.8 | 1058.5 | 1106.9 | 1298.3 | 1260.9 | 1047.1 |
| 22.5° | 1054.2 | 1055.9 | 1034.5 | 998.7 | 988.2 | 1012.6 | 1077.8 | 1114.9 | 1326.1 | 1329.5 | 1058.5 |
| 25° | 1151.0 | 1144.3 | 1140.1 | 1089.6 | 1057.6 | 1078.7 | 1121.6 | 1143.0 | 1343.4 | 1388.4 | 1090.9 |
| 27.5° | 1285.3 | 1271.8 | 1246.2 | 1201.1 | 1177.6 | 1147.7 | 1178.4 | 1213.8 | 1392.6 | 1470.9 | 1126.2 |
| 30° | 1483.5 | 1471.7 | 1421.7 | 1363.6 | 1301.7 | 1272.3 | 1281.9 | 1301.3 | 1481.4 | 1566.4 | 1172.9 |
| 32.5° | 1781.9 | 1757.1 | 1684.7 | 1574.0 | 1489.8 | 1408.6 | 1406.1 | 1426.7 | 1561.0 | 1698.6 | 1228.5 |
| 35° | 2110.6 | 2103.0 | 1996.5 | 1882.5 | 1719.6 | 1594.2 | 1596.3 | 1607.3 | 1713.3 | 1872.0 | 1301.3 |
| 37.5° | 2329.0 | 2370.7 | 2302.9 | 2180.5 | 2043.7 | 1864.4 | 1818.9 | 1822.7 | 1922.5 | 2077.3 | 1432.6 |
| 40° | 2497.8 | 2462.4 | 2470.4 | 2441.8 | 2348.4 | 2226.3 | 2125.7 | 2106.0 | 2164.5 | 2304.6 | 1563.1 |
| 42.5° | 2424.1 | 2425.8 | 2475.1 | 2542.8 | 2566.0 | 2557.1 | 2454.4 | 2417.0 | 2371.5 | 2490.6 | 1687.2 |
| 45° | 2216.2 | 2259.6 | 2323.6 | 2502.8 | 2660.2 | 2808.0 | 2787.8 | 2725.5 | 2514.6 | 2637.9 | 1758.8 |
| 47.5° | 1884.6 | 1882.9 | 1987.7 | 2220.9 | 2570.6 | 2916.5 | 3008.3 | 2964.5 | 2616.0 | 2621.5 | 1744.0 |
| 48° | 1762.1 | 1792.4 | 1900.6 | 2175.0 | 2513.8 | 2900.5 | 3028.1 | 2972.9 | 2598.8 | 2599.6 | 1731.4 |
| 50° | 1302.6 | 1297.1 | 1431.8 | 1768.4 | 2245.3 | 2725.5 | 2944.7 | 2987.7 | 2598.4 | 2488.9 | 1643.0 |
| 52.5° | 688.1 | 711.7 | 809.7 | 1111.9 | 1587.5 | 2230.5 | 2597.5 | 2664.4 | 2506.6 | 2308.0 | 1515.9 |
| 55° | 292.5 | 264.3 | 339.6 | 502.1 | 893.1 | 1490.3 | 1905.6 | 2054.6 | 2119.4 | 2042.4 | 1326.1 |
| 57.5° | 104.4 | 114.1 | 131.3 | 189.0 | 375.4 | 815.6 | 1136.3 | 1252.0 | 1468.4 | 1498.7 | 903.6 |
| 60° | 66.9 | 68.2 | 73.6 | 86.7 | 141.0 | 314.4 | 539.1 | 631.3 | 729.3 | 752.9 | 421.7 |
| 62.5° | 51.8 | 52.2 | 54.7 | 56.8 | 66.9 | 122.0 | 202.4 | 239.9 | 249.1 | 214.2 | 110.7 |
| 65° | 43.3 | 43.8 | 44.6 | 44.6 | 47.6 | 57.2 | 70.7 | 77.9 | 75.8 | 74.9 | 62.7 |
| 67.5° | 33.2 | 34.1 | 35.8 | 35.8 | 37.5 | 34.9 | 39.1 | 41.7 | 47.1 | 57.2 | 53.4 |
| 70° | 26.1 | 26.5 | 27.8 | 28.6 | 28.6 | 25.3 | 28.2 | 30.7 | 34.5 | 42.5 | 42.1 |
| 72.5° | 20.2 | 21.0 | 21.9 | 21.9 | 20.6 | 17.3 | 20.2 | 22.3 | 24.8 | 29.5 | 28.6 |
| 75° | 15.6 | 15.6 | 16.0 | 13.0 | 10.1 | 8.8 | 12.2 | 14.7 | 18.5 | 19.4 | 16.0 |
| 77.5° | 4.2 | 4.6 | 4.2 | 3.8 | 4.2 | 6.3 | 8.0 | 9.3 | 11.8 | 11.8 | 10.5 |
| 80° | 0.0 | 0.4 | 1.3 | 2.5 | 4.2 | 5.9 | 7.2 | 8.0 | 9.3 | 10.1 | 9.7 |
| 82.5° | 0.0 | 0.4 | 1.3 | 2.5 | 3.8 | 4.6 | 6.3 | 6.7 | 7.6 | 8.8 | 8.8 |
| 85° | 0.0 | 0.4 | 0.8 | 1.7 | 2.5 | 2.9 | 2.9 | 2.5 | 2.5 | 2.1 | 1.7 |
| 87.5° | 0.0 | 0.0 | 0.4 | 0.8 | 0.8 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| 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: P526043
 CATALOG NUMBER: GLAN-SA1A-727-U-AFL-GRSBK

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 833.7 | 833.7 | 833.7 | 833.7 | 833.7 | 833.7 | 833.7 | 833.7 | 833.7 | 833.7 | 833.7 |
| 2.5° | 837.9 | 824.9 | 805.1 | 774.0 | 744.1 | 724.7 | 706.2 | 685.6 | 674.2 | 673.4 | 667.1 |
| 5° | 848.0 | 818.6 | 771.4 | 718.0 | 660.7 | 611.5 | 561.8 | 529.4 | 500.4 | 484.4 | 481.5 |
| 7.5° | 853.5 | 815.2 | 739.0 | 649.4 | 551.7 | 471.4 | 415.8 | 375.0 | 359.0 | 347.2 | 346.8 |
| 10° | 864.9 | 809.3 | 690.6 | 558.5 | 437.7 | 356.5 | 318.2 | 299.7 | 290.8 | 287.4 | 282.4 |
| 12.5° | 873.3 | 798.4 | 641.0 | 465.0 | 345.9 | 295.4 | 278.6 | 274.4 | 274.8 | 276.5 | 274.4 |
| 15° | 885.1 | 788.7 | 574.0 | 381.7 | 290.4 | 266.0 | 266.0 | 266.8 | 272.7 | 273.6 | 273.1 |
| 17.5° | 884.2 | 769.7 | 505.0 | 314.4 | 256.7 | 253.4 | 254.6 | 262.6 | 266.4 | 267.7 | 264.7 |
| 20° | 894.3 | 752.1 | 433.9 | 268.5 | 237.8 | 242.8 | 251.3 | 253.4 | 258.0 | 258.8 | 255.5 |
| 22.5° | 891.4 | 707.9 | 367.8 | 232.3 | 223.5 | 233.2 | 241.6 | 244.1 | 242.8 | 240.3 | 239.9 |
| 25° | 885.9 | 670.0 | 307.2 | 208.3 | 213.0 | 223.5 | 231.5 | 226.8 | 224.3 | 224.7 | 225.2 |
| 27.5° | 876.2 | 622.0 | 257.1 | 191.5 | 198.6 | 214.2 | 213.8 | 212.1 | 214.6 | 212.5 | 214.6 |
| 30° | 874.5 | 574.0 | 215.9 | 176.3 | 188.1 | 199.5 | 200.3 | 203.3 | 206.2 | 202.4 | 206.2 |
| 32.5° | 877.1 | 521.4 | 186.4 | 167.1 | 181.8 | 182.2 | 191.5 | 194.4 | 192.3 | 183.9 | 184.8 |
| 35° | 896.4 | 481.0 | 165.0 | 162.0 | 171.7 | 172.1 | 181.0 | 177.2 | 167.9 | 162.9 | 165.8 |
| 37.5° | 937.2 | 447.4 | 154.9 | 157.4 | 158.2 | 163.7 | 164.1 | 156.6 | 157.4 | 157.0 | 158.7 |
| 40° | 989.4 | 421.7 | 147.7 | 153.2 | 152.4 | 156.1 | 141.0 | 145.2 | 149.0 | 150.2 | 151.1 |
| 42.5° | 1025.2 | 403.2 | 143.1 | 146.5 | 144.8 | 138.0 | 129.6 | 133.8 | 136.8 | 141.4 | 142.2 |
| 45° | 1041.2 | 388.5 | 137.6 | 134.7 | 134.7 | 122.5 | 119.1 | 119.9 | 126.7 | 131.7 | 130.9 |
| 47.5° | 1015.1 | 374.1 | 127.9 | 119.1 | 122.0 | 111.9 | 108.2 | 108.2 | 115.3 | 121.6 | 120.4 |
| 48° | 1005.0 | 368.2 | 128.4 | 115.7 | 117.8 | 110.3 | 106.5 | 105.6 | 113.6 | 119.5 | 119.5 |
| 50° | 954.9 | 346.4 | 117.4 | 106.5 | 102.3 | 101.4 | 98.9 | 99.7 | 104.8 | 110.3 | 110.3 |
| 52.5° | 857.3 | 299.2 | 99.3 | 91.3 | 83.8 | 88.8 | 90.1 | 88.4 | 90.9 | 96.0 | 95.5 |
| 55° | 715.5 | 229.8 | 79.5 | 75.8 | 69.9 | 75.3 | 77.9 | 75.8 | 73.2 | 77.0 | 77.0 |
| 57.5° | 458.3 | 123.7 | 63.5 | 64.4 | 58.5 | 64.0 | 66.1 | 61.0 | 56.4 | 59.3 | 58.9 |
| 60° | 206.6 | 74.1 | 52.2 | 50.9 | 47.1 | 53.4 | 56.8 | 50.9 | 44.6 | 46.7 | 48.8 |
| 62.5° | 77.4 | 52.6 | 39.6 | 38.7 | 37.9 | 43.8 | 45.5 | 40.8 | 34.5 | 35.8 | 36.2 |
| 65° | 56.8 | 46.3 | 31.6 | 28.6 | 30.3 | 34.5 | 33.7 | 29.0 | 24.8 | 24.8 | 25.7 |
| 67.5° | 48.4 | 40.4 | 25.7 | 22.3 | 22.3 | 22.7 | 21.0 | 18.5 | 17.3 | 18.1 | 18.9 |
| 70° | 37.9 | 32.0 | 20.2 | 17.3 | 15.6 | 13.9 | 12.2 | 11.8 | 10.5 | 11.8 | 11.4 |
| 72.5° | 24.4 | 21.5 | 15.6 | 13.0 | 11.8 | 9.7 | 8.0 | 7.6 | 6.3 | 5.9 | 5.9 |
| 75° | 13.0 | 13.0 | 12.2 | 10.5 | 9.3 | 7.6 | 6.3 | 5.1 | 3.4 | 2.5 | 2.5 |
| 77.5° | 9.3 | 10.1 | 10.9 | 10.1 | 8.4 | 6.3 | 5.1 | 3.4 | 1.7 | 0.8 | 0.8 |
| 80° | 8.8 | 10.1 | 10.9 | 9.7 | 8.4 | 6.3 | 4.6 | 2.5 | 1.3 | 0.4 | 0.4 |
| 82.5° | 8.0 | 9.3 | 10.1 | 8.8 | 7.6 | 5.5 | 4.2 | 2.5 | 1.3 | 0.4 | 0.4 |
| 85° | 1.7 | 2.1 | 2.5 | 2.5 | 2.9 | 3.8 | 2.9 | 2.1 | 0.8 | 0.4 | 0.4 |
| 87.5° | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 0.8 | 0.8 | 0.4 | 0.4 | 0.4 |
| 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)