

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: P649158

Luminaire Tested: **GLAN-SA9C-835-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P649158
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9C-835-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29438.5 lumens
Efficiency: N/A
Efficacy: 61.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

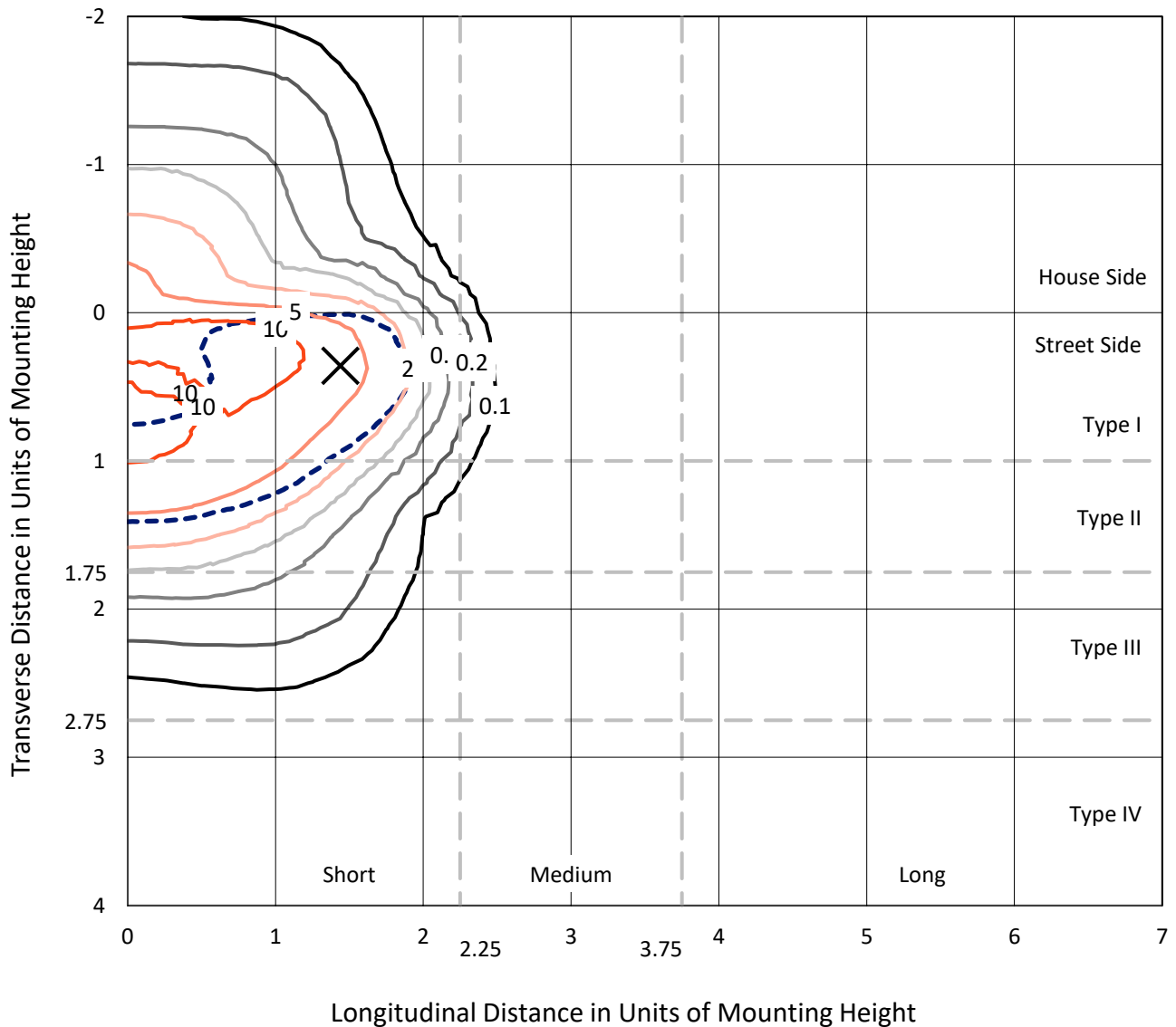
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P649158
 CATALOG NUMBER: GLAN-SA9C-835-U-T2-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

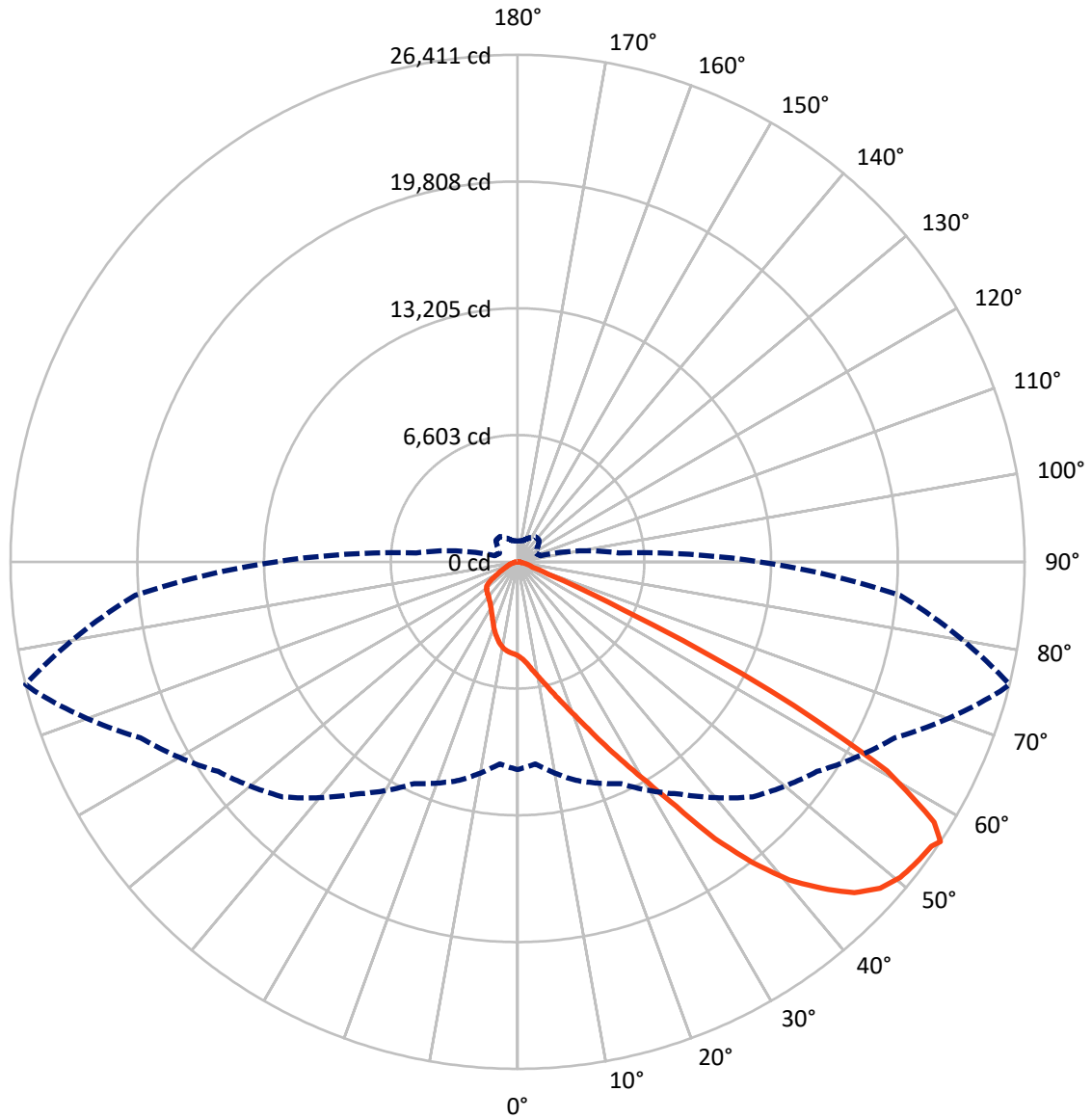
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.5 fc
 Type II - Short - N/A

REPORT NUMBER: P649158
CATALOG NUMBER: GLAN-SA9C-835-U-T2-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P649158
 CATALOG NUMBER: GLAN-SA9C-835-U-T2-GRSBK

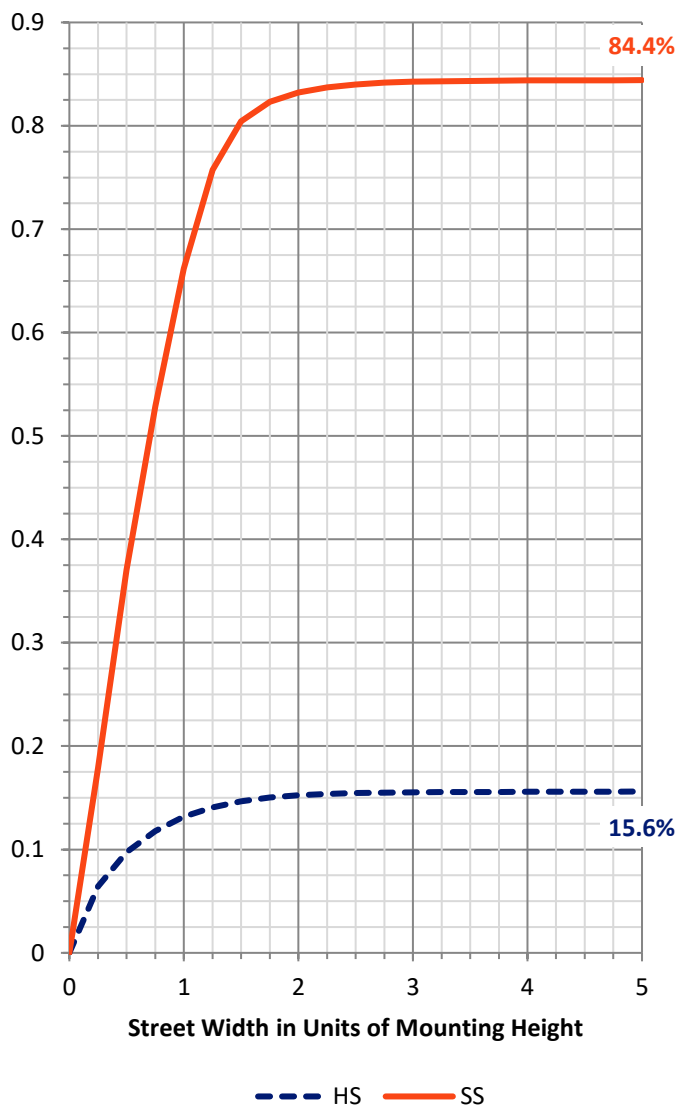
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4624.6 | 0.0 | 4624.6 |
| | % Fixture | 15.7 | 0.0 | 15.7 |
| Street Side | Lumens | 24813.8 | 0.0 | 24813.8 |
| | % Fixture | 84.3 | 0.0 | 84.3 |
| Total | Lumens | 29438.5 | 0.0 | 29438.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 493.6 | 1.7 |
| 10°-20° | 1585.8 | 5.4 |
| 20°-30° | 2875.5 | 9.8 |
| 30°-40° | 4958.9 | 16.8 |
| 40°-50° | 8055.9 | 27.4 |
| 50°-60° | 8491.2 | 28.8 |
| 60°-70° | 2594.4 | 8.8 |
| 70°-80° | 332.6 | 1.1 |
| 80°-90° | 50.6 | 0.2 |
| 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° | 29438.5 | 100.0 |
| 0°-180° | 29438.5 | 100.0 |

Coefficient of Utilization

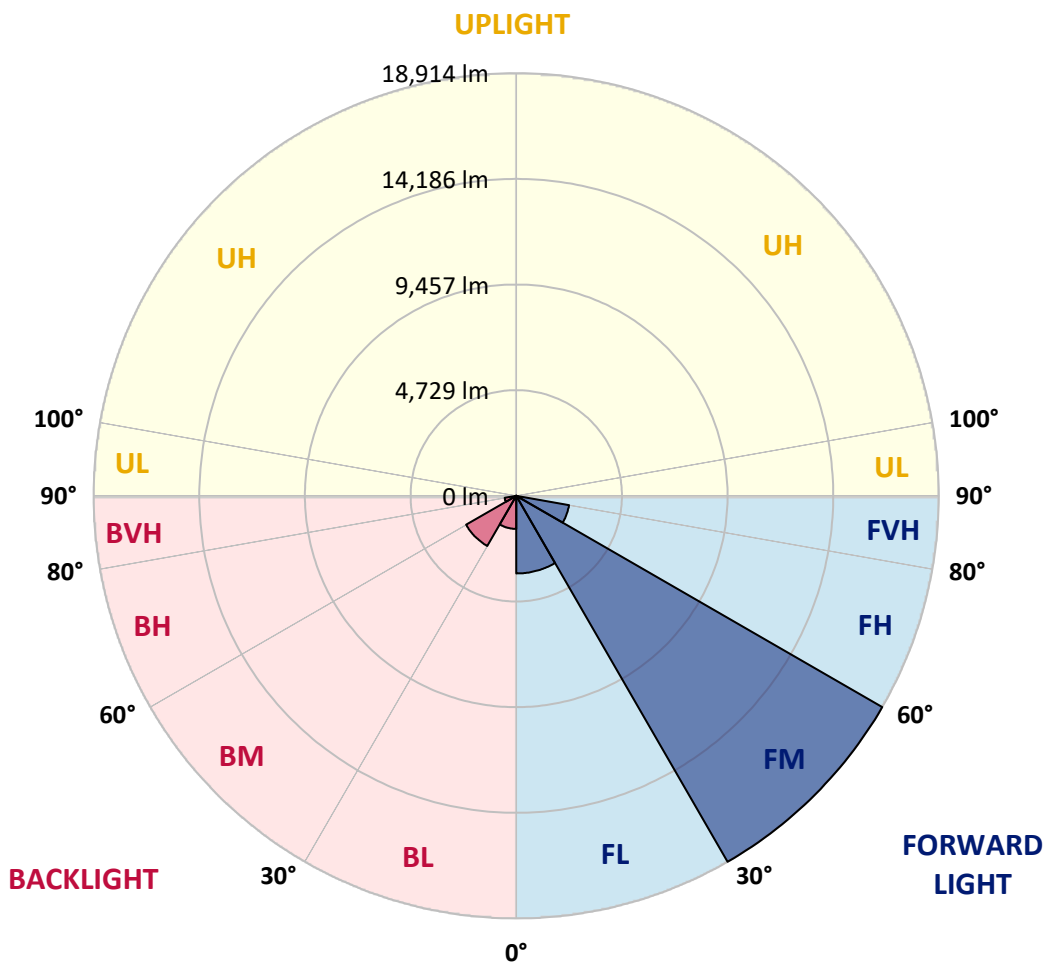


REPORT NUMBER: P649158
 CATALOG NUMBER: GLAN-SA9C-835-U-T2-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3475.5 | 11.8 | | | |
| FM (30°-60°) | 18914.2 | 64.2 | | | |
| FH (60°-80°) | 2399.4 | 8.2 | | | G2/5000 |
| FVH (80°-90°) | 24.8 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1479.4 | 5.0 | B3/2500 | | |
| BM (30°-60°) | 2591.8 | 8.8 | B3/5000 | | |
| BH (60°-80°) | 527.6 | 1.8 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 25.8 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2
 Type II Short





REPORT NUMBER: P649158

CATALOG NUMBER: GLAN-SA9C-835-U-T2-GRSBK

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4900.1 | 4900.1 | 4900.1 | 4900.1 | 4900.1 | 4900.1 | 4900.1 | 4900.1 | 4900.1 | 4900.1 | 4900.1 |
| 2.5° | 5643.5 | 5513.3 | 5518.7 | 5507.9 | 5491.6 | 5431.8 | 5252.8 | 5225.7 | 5106.3 | 5073.7 | 4965.2 |
| 5° | 6321.8 | 6207.9 | 6272.9 | 6175.3 | 6083.0 | 6028.8 | 5735.7 | 5600.1 | 5410.1 | 5339.6 | 5187.7 |
| 7.5° | 6745.1 | 6690.8 | 6669.1 | 6674.5 | 6587.7 | 6452.0 | 6321.8 | 6023.4 | 5768.3 | 5714.0 | 5393.9 |
| 10° | 6951.2 | 6918.7 | 6951.2 | 6935.0 | 6973.0 | 6989.2 | 6761.4 | 6582.3 | 6207.9 | 6115.6 | 5616.4 |
| 12.5° | 7000.1 | 7065.2 | 7092.3 | 7162.9 | 7255.1 | 7412.5 | 7396.2 | 7152.1 | 6652.8 | 6593.1 | 5958.2 |
| 15° | 7119.5 | 7173.8 | 7146.6 | 7260.6 | 7434.2 | 7700.1 | 7841.2 | 7803.2 | 7266.0 | 7157.5 | 6354.4 |
| 17.5° | 7228.0 | 7130.3 | 7222.6 | 7450.5 | 7624.1 | 8031.2 | 8373.0 | 8530.4 | 7933.4 | 7808.6 | 6717.9 |
| 20° | 7374.5 | 7347.4 | 7331.2 | 7445.1 | 7754.4 | 8297.1 | 8975.3 | 9263.0 | 8682.3 | 8552.1 | 7238.8 |
| 22.5° | 7819.5 | 7824.9 | 7814.1 | 7645.8 | 7868.4 | 8481.5 | 9501.7 | 10212.6 | 9577.7 | 9469.1 | 7830.3 |
| 25° | 8405.6 | 8335.0 | 8280.8 | 8145.1 | 8118.0 | 8649.7 | 10033.5 | 11373.8 | 10652.1 | 10576.1 | 8470.7 |
| 27.5° | 9024.2 | 9024.2 | 8861.4 | 8736.6 | 8562.9 | 9067.6 | 10521.9 | 12502.6 | 11949.0 | 11845.9 | 9029.6 |
| 30° | 9697.1 | 9735.0 | 9713.3 | 9447.4 | 9338.9 | 9523.4 | 11021.1 | 13945.9 | 13435.9 | 13305.6 | 9952.1 |
| 32.5° | 10690.1 | 10608.7 | 10700.9 | 10478.4 | 10158.3 | 10321.1 | 11808.0 | 15237.4 | 15367.7 | 15183.2 | 11162.2 |
| 35° | 12003.3 | 11954.5 | 11894.8 | 11531.2 | 11151.3 | 11281.5 | 12920.4 | 16827.4 | 17793.3 | 17701.0 | 12383.1 |
| 37.5° | 13180.8 | 13153.7 | 13104.8 | 12855.2 | 12415.7 | 12573.0 | 14184.7 | 18482.5 | 20159.2 | 19855.3 | 14108.7 |
| 40° | 14418.1 | 14564.6 | 14407.2 | 14184.7 | 13783.1 | 14130.4 | 15671.6 | 19464.7 | 22150.8 | 21781.7 | 15427.4 |
| 42.5° | 16094.8 | 15980.9 | 16051.4 | 15644.4 | 15427.4 | 15807.2 | 17163.8 | 20446.8 | 23697.3 | 23257.7 | 16827.4 |
| 45° | 17880.1 | 17885.5 | 17695.6 | 17565.4 | 17001.0 | 17413.5 | 18080.9 | 20989.5 | 24929.1 | 24587.2 | 17885.5 |
| 47.5° | 19025.1 | 19019.7 | 19225.9 | 19432.1 | 18851.4 | 18444.5 | 18704.9 | 21505.0 | 25563.9 | 25406.5 | 18270.8 |
| 50° | 18846.0 | 18900.3 | 19166.2 | 19936.7 | 20240.6 | 19692.5 | 19291.0 | 21353.0 | 25851.5 | 25835.2 | 18601.8 |
| 52.5° | 16393.3 | 16572.4 | 17017.3 | 18129.7 | 19660.0 | 20338.3 | 19904.2 | 21635.2 | 25992.6 | 26019.8 | 19095.6 |
| 55° | 12480.8 | 12578.5 | 13425.0 | 14776.2 | 16469.2 | 18791.8 | 19660.0 | 21857.7 | 26101.1 | 26150.0 | 19692.5 |
| 56° | 10825.8 | 10565.3 | 11786.3 | 12746.7 | 14770.7 | 17310.3 | 19041.4 | 21684.1 | 26036.1 | 26410.5 | 19991.0 |
| 57.5° | 8172.2 | 7998.6 | 8986.2 | 10185.4 | 12133.5 | 14814.2 | 17120.5 | 20864.7 | 25596.5 | 25591.1 | 19562.3 |
| 60° | 4970.6 | 4797.0 | 5556.6 | 6262.1 | 7352.8 | 9121.9 | 11569.1 | 16615.7 | 21640.6 | 22096.5 | 15839.8 |
| 62.5° | 2957.4 | 3065.9 | 3814.8 | 4243.5 | 4596.2 | 4780.7 | 5985.3 | 9876.1 | 14439.8 | 14765.3 | 9827.3 |
| 65° | 1969.8 | 2007.8 | 2572.2 | 3277.6 | 3434.9 | 2734.9 | 2436.5 | 3999.3 | 6262.1 | 6061.4 | 4053.5 |
| 67.5° | 1215.5 | 1302.4 | 1725.6 | 2463.6 | 2729.5 | 1997.0 | 1155.9 | 1492.2 | 1725.6 | 1725.6 | 1172.1 |
| 70° | 738.0 | 781.4 | 1150.4 | 1676.8 | 1872.2 | 1286.1 | 841.1 | 841.1 | 830.2 | 813.9 | 700.0 |
| 72.5° | 352.7 | 379.8 | 586.1 | 862.8 | 879.1 | 678.3 | 651.1 | 710.9 | 694.6 | 689.2 | 580.6 |
| 75° | 151.9 | 162.8 | 206.2 | 271.3 | 309.3 | 287.6 | 396.1 | 510.0 | 526.3 | 510.0 | 417.8 |
| 77.5° | 48.9 | 54.3 | 76.0 | 97.6 | 103.1 | 124.8 | 168.2 | 211.6 | 244.2 | 227.9 | 206.2 |
| 80° | 5.4 | 10.9 | 21.7 | 48.9 | 76.0 | 97.6 | 124.8 | 141.1 | 157.4 | 157.4 | 146.5 |
| 82.5° | 5.4 | 5.4 | 21.7 | 43.4 | 70.5 | 92.2 | 119.4 | 135.7 | 157.4 | 162.8 | 151.9 |
| 85° | 0.0 | 5.4 | 16.3 | 38.0 | 59.7 | 59.7 | 54.3 | 54.3 | 38.0 | 38.0 | 38.0 |
| 87.5° | 0.0 | 0.0 | 5.4 | 5.4 | 5.4 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 |
| 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: P649158

CATALOG NUMBER: GLAN-SA9C-835-U-T2-GRSBK

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4900.1 | 4900.1 | 4900.1 | 4900.1 | 4900.1 | 4900.1 | 4900.1 | 4900.1 | 4900.1 | 4900.1 | 4900.1 |
| 2.5° | 4943.5 | 4932.7 | 4786.1 | 4693.9 | 4645.1 | 4547.4 | 4487.7 | 4444.2 | 4411.7 | 4373.7 | 4379.2 |
| 5° | 5008.6 | 4970.6 | 4726.4 | 4558.2 | 4357.4 | 4248.9 | 4156.6 | 4080.7 | 4031.8 | 4021.0 | 3999.3 |
| 7.5° | 5193.1 | 4992.3 | 4623.3 | 4319.4 | 4064.4 | 3955.9 | 3874.4 | 3825.7 | 3847.3 | 3798.5 | 3836.5 |
| 10° | 5334.2 | 5035.7 | 4498.5 | 4059.0 | 3804.0 | 3722.5 | 3679.2 | 3717.1 | 3771.4 | 3749.6 | 3722.5 |
| 12.5° | 5507.9 | 5079.2 | 4297.7 | 3809.4 | 3570.6 | 3510.9 | 3586.8 | 3657.4 | 3765.9 | 3809.4 | 3755.1 |
| 15° | 5703.2 | 5128.0 | 4042.7 | 3521.8 | 3369.8 | 3418.7 | 3548.9 | 3673.7 | 3782.2 | 3836.5 | 3869.0 |
| 17.5° | 5942.0 | 5111.7 | 3793.1 | 3293.8 | 3179.9 | 3321.0 | 3478.3 | 3592.3 | 3755.1 | 3836.5 | 3814.8 |
| 20° | 6164.4 | 5057.5 | 3516.3 | 3065.9 | 3071.4 | 3201.6 | 3331.8 | 3516.3 | 3603.1 | 3711.7 | 3673.7 |
| 22.5° | 6376.0 | 4959.8 | 3228.7 | 2908.6 | 2908.6 | 3109.4 | 3174.4 | 3293.8 | 3369.8 | 3424.1 | 3418.7 |
| 25° | 6674.5 | 4775.3 | 2990.0 | 2756.6 | 2821.8 | 2952.0 | 3006.3 | 3044.2 | 3011.7 | 3055.1 | 3060.5 |
| 27.5° | 6886.2 | 4585.3 | 2794.6 | 2620.9 | 2740.3 | 2838.1 | 2821.8 | 2800.0 | 2724.1 | 2664.4 | 2702.4 |
| 30° | 7114.0 | 4362.9 | 2626.4 | 2528.7 | 2593.8 | 2680.7 | 2615.5 | 2550.4 | 2431.1 | 2333.3 | 2338.8 |
| 32.5° | 7439.7 | 4259.8 | 2479.9 | 2420.2 | 2507.0 | 2517.9 | 2447.3 | 2349.6 | 2230.3 | 2138.0 | 2132.6 |
| 35° | 8047.4 | 4194.6 | 2355.1 | 2349.6 | 2365.9 | 2371.3 | 2300.8 | 2181.4 | 2132.6 | 2056.6 | 2083.7 |
| 37.5° | 8655.2 | 4162.1 | 2268.3 | 2246.6 | 2241.1 | 2246.6 | 2165.2 | 2051.2 | 2143.5 | 2138.0 | 2148.9 |
| 40° | 9431.2 | 4308.6 | 2143.5 | 2116.3 | 2121.8 | 2121.8 | 2018.7 | 1986.1 | 2148.9 | 2165.2 | 2170.6 |
| 42.5° | 10218.0 | 4493.1 | 2062.0 | 1975.2 | 1997.0 | 1997.0 | 1942.7 | 1904.6 | 2018.7 | 1910.1 | 1893.8 |
| 45° | 10901.7 | 4764.4 | 1975.2 | 1834.1 | 1888.4 | 1915.5 | 1899.2 | 1834.1 | 1763.6 | 1579.1 | 1579.1 |
| 47.5° | 11124.2 | 5003.2 | 1872.2 | 1698.5 | 1741.9 | 1861.3 | 1812.4 | 1676.8 | 1552.0 | 1400.0 | 1389.2 |
| 50° | 11514.9 | 5263.6 | 1790.7 | 1541.1 | 1633.3 | 1779.8 | 1731.1 | 1595.4 | 1454.3 | 1345.7 | 1351.1 |
| 52.5° | 11916.5 | 5562.1 | 1638.8 | 1356.6 | 1470.6 | 1714.8 | 1714.8 | 1562.8 | 1345.7 | 1269.8 | 1258.9 |
| 55° | 12518.8 | 5551.2 | 1367.4 | 1112.4 | 1313.2 | 1617.1 | 1644.2 | 1400.0 | 1204.6 | 1145.0 | 1145.0 |
| 56° | 12605.6 | 5301.6 | 1231.8 | 1041.9 | 1242.6 | 1590.0 | 1595.4 | 1356.6 | 1150.4 | 1085.3 | 1085.3 |
| 57.5° | 11954.5 | 4786.1 | 1079.8 | 955.0 | 1155.9 | 1541.1 | 1546.5 | 1318.7 | 1107.0 | 1014.8 | 1003.9 |
| 60° | 9197.8 | 3239.6 | 900.8 | 852.0 | 1047.3 | 1389.2 | 1416.3 | 1199.2 | 971.3 | 900.8 | 895.4 |
| 62.5° | 5193.1 | 1796.1 | 792.2 | 770.6 | 900.8 | 1183.0 | 1264.4 | 1047.3 | 824.8 | 786.8 | 797.7 |
| 65° | 2371.3 | 987.6 | 667.4 | 624.1 | 727.2 | 911.6 | 1020.2 | 862.8 | 678.3 | 634.9 | 634.9 |
| 67.5° | 868.3 | 672.9 | 569.8 | 493.8 | 510.0 | 591.5 | 662.0 | 558.9 | 450.4 | 385.3 | 401.5 |
| 70° | 618.6 | 564.4 | 499.2 | 428.7 | 396.1 | 385.3 | 379.8 | 314.8 | 222.5 | 173.7 | 184.5 |
| 72.5° | 499.2 | 466.7 | 417.8 | 363.5 | 309.3 | 260.5 | 222.5 | 162.8 | 103.1 | 70.5 | 65.1 |
| 75° | 358.1 | 341.9 | 303.9 | 260.5 | 217.0 | 184.5 | 151.9 | 103.1 | 54.3 | 27.2 | 27.2 |
| 77.5° | 184.5 | 184.5 | 179.1 | 162.8 | 135.7 | 108.5 | 86.8 | 59.7 | 32.6 | 10.9 | 10.9 |
| 80° | 141.1 | 151.9 | 157.4 | 141.1 | 124.8 | 97.6 | 70.5 | 43.4 | 21.7 | 5.4 | 5.4 |
| 82.5° | 135.7 | 157.4 | 168.2 | 146.5 | 124.8 | 92.2 | 70.5 | 43.4 | 21.7 | 5.4 | 5.4 |
| 85° | 32.6 | 32.6 | 48.9 | 54.3 | 70.5 | 76.0 | 59.7 | 38.0 | 16.3 | 5.4 | 5.4 |
| 87.5° | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 | 5.4 | 5.4 | 5.4 | 5.4 | 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)