

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: P533003

Luminaire Tested: **GLAN-SA8B-827-U-T3R-GRSBK**

Issue Date: 5/27/2021

### Test Information

Test Method: LM-79-08  
Report Number: P533003  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA8B-827-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 20543 lumens  
Efficiency: N/A  
Efficacy: 63.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

Input Watts (W): 325  
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

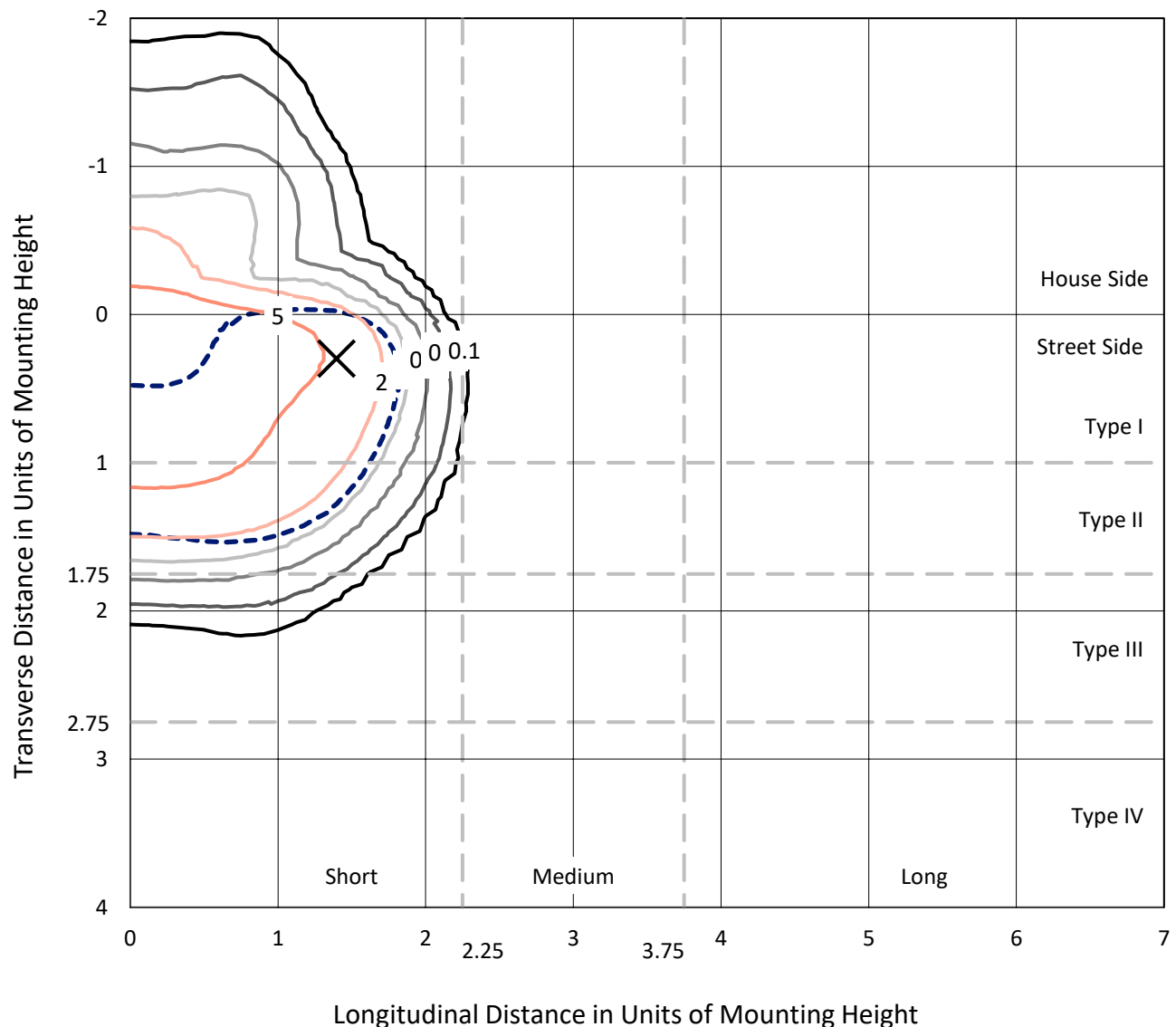


REPORT NUMBER: P533003

CATALOG NUMBER: GLAN-SA8B-827-U-T3R-GRSBK

## Iso-Footcandle Lines of Horizontal Illumination

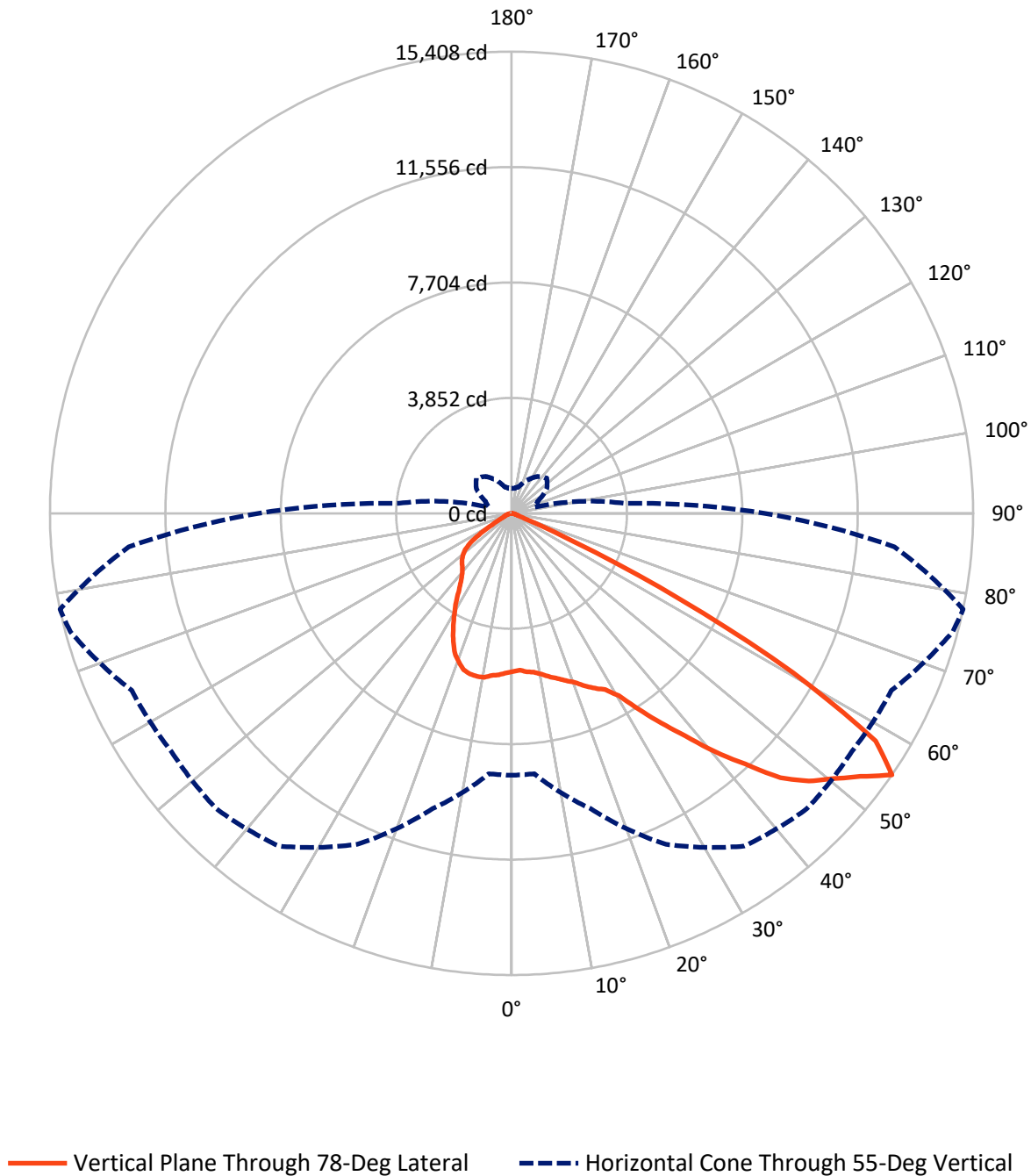
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc  
 Type II - Short - N/A

REPORT NUMBER: P533003  
CATALOG NUMBER: GLAN-SA8B-827-U-T3R-GRSBK

## Luminous Intensity Polar Plot



REPORT NUMBER: P533003

CATALOG NUMBER: GLAN-SA8B-827-U-T3R-GRSBK

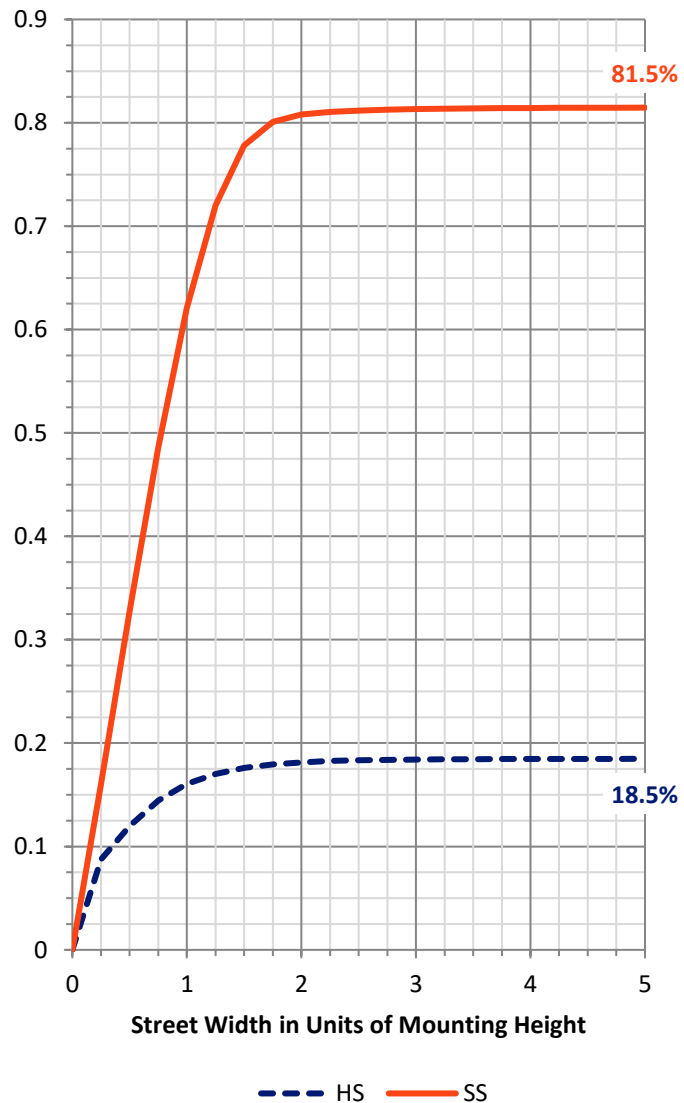
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3815.6   | 0.0    | 3815.6  |
|                    | % Fixture | 18.6     | 0.0    | 18.6    |
| <b>Street Side</b> | Lumens    | 16727.4  | 0.0    | 16727.4 |
|                    | % Fixture | 81.4     | 0.0    | 81.4    |
| <b>Total</b>       | Lumens    | 20543.0  | 0.0    | 20543.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 471.0   | 2.3       |
| 10°-20°   | 1246.4  | 6.1       |
| 20°-30°   | 2184.7  | 10.6      |
| 30°-40°   | 3602.3  | 17.5      |
| 40°-50°   | 5241.8  | 25.5      |
| 50°-60°   | 5939.5  | 28.9      |
| 60°-70°   | 1698.2  | 8.3       |
| 70°-80°   | 131.9   | 0.6       |
| 80°-90°   | 27.4    | 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°    | 20543.0 | 100.0     |
| 0°-180°   | 20543.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P533003

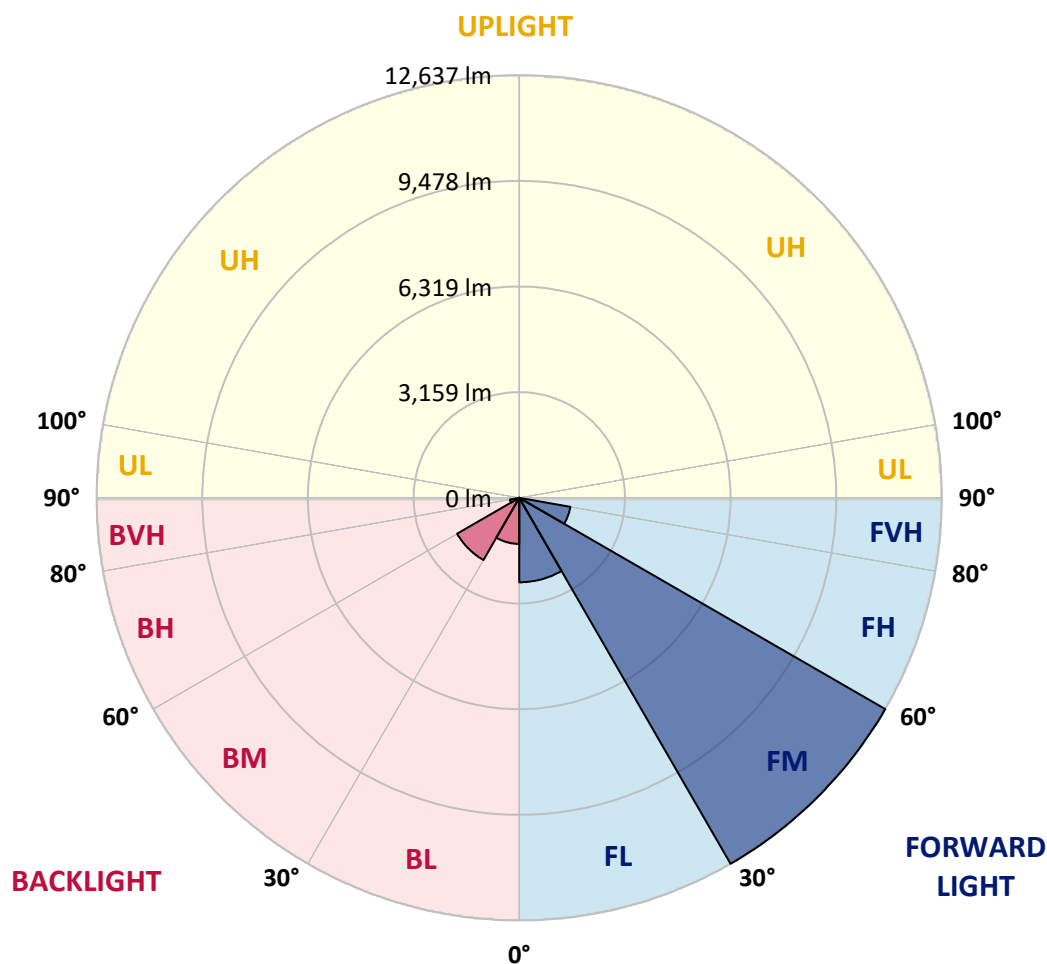
CATALOG NUMBER: GLAN-SA8B-827-U-T3R-GRSBK

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2525.3  | 12.3      |                         |      |         |
| FM   | (30°-60°)   | 12637.1 | 61.5      |                         |      |         |
| FH   | (60°-80°)   | 1551.5  | 7.6       |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 13.4    | 0.1       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1376.7  | 6.7       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2146.3  | 10.4      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 278.5   | 1.4       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 14.1    | 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-G1**

Type II Short



REPORT NUMBER: P533003

CATALOG NUMBER: GLAN-SA8B-827-U-T3R-GRSBK

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 78°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5281.6  | 5281.6  | 5281.6  | 5281.6  | 5281.6  | 5281.6  | 5281.6  | 5281.6  | 5281.6  | 5281.6  | 5281.6  |
| 2.5°  | 4965.7  | 5013.5  | 5020.8  | 5079.6  | 5075.9  | 5175.1  | 5204.5  | 5208.2  | 5274.3  | 5241.2  | 5325.7  |
| 5°    | 4826.2  | 4800.5  | 4789.4  | 4892.3  | 4921.7  | 5009.8  | 5083.3  | 5127.4  | 5263.3  | 5311.0  | 5399.1  |
| 7.5°  | 4701.3  | 4701.3  | 4708.6  | 4800.5  | 4789.4  | 4903.3  | 4980.4  | 5116.3  | 5314.7  | 5355.1  | 5461.6  |
| 10°   | 4580.1  | 4536.0  | 4591.1  | 4686.6  | 4767.4  | 4818.8  | 4980.4  | 5109.0  | 5340.4  | 5457.9  | 5604.8  |
| 12.5° | 4517.7  | 4539.7  | 4547.0  | 4616.8  | 4705.0  | 4859.2  | 4947.4  | 5160.4  | 5524.0  | 5593.8  | 5751.7  |
| 15°   | 4910.7  | 4866.6  | 4760.1  | 4697.6  | 4771.1  | 4844.5  | 5064.9  | 5281.6  | 5619.5  | 5718.7  | 5895.0  |
| 17.5° | 5366.1  | 5329.4  | 5241.2  | 5072.3  | 4907.0  | 5042.9  | 5215.5  | 5413.8  | 5722.4  | 5869.3  | 6130.1  |
| 20°   | 5961.1  | 5902.3  | 5814.2  | 5483.6  | 5340.4  | 5193.5  | 5377.1  | 5612.2  | 5891.3  | 6023.5  | 6291.7  |
| 22.5° | 6670.0  | 6670.0  | 6471.6  | 6071.3  | 5773.8  | 5634.2  | 5711.3  | 5847.2  | 6078.6  | 6258.6  | 6523.1  |
| 25°   | 7408.2  | 7386.2  | 7206.2  | 6791.2  | 6288.0  | 6122.7  | 6210.9  | 6306.4  | 6368.8  | 6468.0  | 6644.3  |
| 27.5° | 8253.0  | 8124.4  | 7896.7  | 7437.6  | 6993.2  | 6673.6  | 6769.1  | 6684.7  | 6607.5  | 6659.0  | 6912.4  |
| 30°   | 8826.0  | 8906.8  | 8616.6  | 8175.9  | 7757.1  | 7400.9  | 7419.2  | 7345.8  | 6993.2  | 7066.6  | 7217.2  |
| 32.5° | 9421.0  | 9472.4  | 9310.8  | 9068.4  | 8649.7  | 8234.6  | 8084.0  | 8021.6  | 7757.1  | 7790.2  | 7643.3  |
| 35°   | 9916.8  | 10016.0 | 9872.7  | 9766.2  | 9645.0  | 9310.8  | 8895.7  | 9097.8  | 8671.7  | 8590.9  | 8208.9  |
| 37.5° | 10372.2 | 10342.9 | 10511.8 | 10401.6 | 10375.9 | 10140.9 | 9685.4  | 9725.8  | 9439.3  | 9421.0  | 8980.2  |
| 40°   | 10779.9 | 10787.3 | 11018.7 | 11070.1 | 10967.3 | 10548.5 | 9887.4  | 10207.0 | 10438.4 | 10460.4 | 9894.8  |
| 42.5° | 11117.8 | 11217.0 | 11415.3 | 11830.4 | 11676.1 | 10978.3 | 10096.8 | 10445.7 | 11305.2 | 11441.1 | 10761.6 |
| 45°   | 11411.7 | 11613.7 | 11859.8 | 12230.7 | 12142.6 | 11588.0 | 10618.3 | 10937.9 | 12230.7 | 12587.0 | 11577.0 |
| 47.5° | 11430.0 | 11694.5 | 11962.6 | 12513.5 | 12623.7 | 11914.9 | 11158.2 | 11716.5 | 12965.3 | 13351.0 | 12172.0 |
| 50°   | 11356.6 | 11496.1 | 12032.4 | 12631.1 | 12880.8 | 12447.4 | 11914.9 | 12370.3 | 13677.8 | 13920.3 | 12473.1 |
| 52.5° | 10486.1 | 10592.6 | 11668.8 | 12741.3 | 13343.6 | 13049.8 | 12917.6 | 13281.2 | 14405.1 | 14585.1 | 12756.0 |
| 55°   | 8741.5  | 8723.1  | 10203.3 | 12186.7 | 13556.6 | 13942.3 | 13861.5 | 13990.0 | 15246.2 | 15407.8 | 12825.7 |
| 57.5° | 5979.5  | 6313.7  | 7591.9  | 10148.2 | 12252.8 | 13732.9 | 13817.4 | 13604.4 | 14265.5 | 14327.9 | 11180.3 |
| 60°   | 3224.8  | 3364.4  | 4392.8  | 6772.8  | 9329.1  | 11191.3 | 11411.7 | 11026.0 | 10974.6 | 10798.3 | 7981.2  |
| 62.5° | 1281.8  | 1351.6  | 1935.6  | 3353.3  | 5083.3  | 6802.2  | 7276.0  | 7118.1  | 6780.2  | 6317.4  | 4132.0  |
| 65°   | 609.7   | 653.8   | 962.3   | 1568.3  | 2255.2  | 2835.5  | 3309.3  | 3456.2  | 2549.0  | 2295.6  | 1362.6  |
| 67.5° | 415.0   | 448.1   | 701.5   | 896.2   | 804.4   | 841.1   | 1094.5  | 1017.4  | 598.7   | 510.5   | 378.3   |
| 70°   | 315.9   | 337.9   | 562.0   | 609.7   | 359.9   | 253.4   | 282.8   | 264.4   | 246.1   | 249.8   | 246.1   |
| 72.5° | 224.0   | 242.4   | 411.4   | 359.9   | 157.9   | 117.5   | 150.6   | 180.0   | 180.0   | 180.0   | 176.3   |
| 75°   | 135.9   | 154.3   | 238.7   | 139.6   | 62.4    | 62.4    | 95.5    | 121.2   | 128.6   | 132.2   | 124.9   |
| 77.5° | 69.8    | 88.1    | 80.8    | 40.4    | 40.4    | 47.7    | 69.8    | 84.5    | 91.8    | 91.8    | 88.1    |
| 80°   | 14.7    | 14.7    | 14.7    | 22.0    | 40.4    | 51.4    | 69.8    | 77.1    | 88.1    | 88.1    | 80.8    |
| 82.5° | 0.0     | 3.7     | 11.0    | 22.0    | 36.7    | 47.7    | 66.1    | 77.1    | 88.1    | 91.8    | 84.5    |
| 85°   | 0.0     | 3.7     | 7.3     | 14.7    | 25.7    | 29.4    | 25.7    | 22.0    | 22.0    | 22.0    | 22.0    |
| 87.5° | 0.0     | 0.0     | 3.7     | 3.7     | 3.7     | 7.3     | 7.3     | 7.3     | 7.3     | 7.3     | 7.3     |
| 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: P533003

CATALOG NUMBER: GLAN-SA8B-827-U-T3R-GRSBK

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 5281.6 | 5281.6 | 5281.6 | 5281.6 | 5281.6 | 5281.6 | 5281.6 | 5281.6 | 5281.6 | 5281.6 | 5281.6 |
| 2.5°  | 5333.0 | 5344.1 | 5325.7 | 5322.0 | 5307.3 | 5351.4 | 5244.9 | 5219.2 | 5285.3 | 5222.9 | 5237.5 |
| 5°    | 5402.8 | 5428.5 | 5395.5 | 5340.4 | 5259.6 | 5134.7 | 5028.2 | 4888.6 | 4822.5 | 4774.8 | 4767.4 |
| 7.5°  | 5454.2 | 5472.6 | 5439.6 | 5263.3 | 5020.8 | 4705.0 | 4469.9 | 4297.3 | 4161.4 | 4121.0 | 4054.9 |
| 10°   | 5663.6 | 5667.3 | 5502.0 | 5112.7 | 4638.9 | 4223.8 | 3863.9 | 3599.4 | 3463.5 | 3379.1 | 3342.3 |
| 12.5° | 5803.2 | 5795.8 | 5461.6 | 4815.2 | 4183.4 | 3632.5 | 3221.1 | 2901.6 | 2776.7 | 2736.3 | 2710.6 |
| 15°   | 5979.5 | 5939.1 | 5366.1 | 4510.3 | 3595.8 | 3000.8 | 2629.8 | 2409.4 | 2398.4 | 2372.7 | 2398.4 |
| 17.5° | 6119.0 | 6005.2 | 5226.5 | 3955.7 | 3033.8 | 2471.9 | 2229.4 | 2244.1 | 2273.5 | 2299.2 | 2302.9 |
| 20°   | 6346.8 | 6111.7 | 4907.0 | 3470.9 | 2512.3 | 2119.3 | 2115.6 | 2181.7 | 2255.2 | 2284.5 | 2313.9 |
| 22.5° | 6519.4 | 6155.8 | 4565.4 | 2953.0 | 2086.2 | 1976.0 | 2038.5 | 2137.6 | 2192.7 | 2222.1 | 2266.2 |
| 25°   | 6581.8 | 6034.6 | 4110.0 | 2435.1 | 1880.5 | 1909.9 | 2005.4 | 2071.5 | 2141.3 | 2174.4 | 2156.0 |
| 27.5° | 6644.3 | 5972.1 | 3566.4 | 2005.4 | 1770.3 | 1865.8 | 1946.6 | 2012.7 | 2034.8 | 2078.9 | 2108.2 |
| 30°   | 6794.8 | 5755.4 | 3077.9 | 1733.6 | 1715.2 | 1836.4 | 1895.2 | 1917.2 | 1976.0 | 2001.7 | 2001.7 |
| 32.5° | 6916.1 | 5670.9 | 2560.0 | 1605.1 | 1707.9 | 1851.1 | 1858.5 | 1858.5 | 1865.8 | 1847.5 | 1840.1 |
| 35°   | 7165.8 | 5380.8 | 2097.2 | 1527.9 | 1704.2 | 1854.8 | 1873.2 | 1810.7 | 1641.8 | 1575.7 | 1557.3 |
| 37.5° | 7474.3 | 5193.5 | 1755.6 | 1509.6 | 1729.9 | 1898.9 | 1928.3 | 1693.2 | 1472.8 | 1366.3 | 1348.0 |
| 40°   | 7849.0 | 5061.2 | 1531.6 | 1502.2 | 1788.7 | 2001.7 | 1913.6 | 1601.4 | 1314.9 | 1160.6 | 1153.3 |
| 42.5° | 8286.0 | 4940.0 | 1381.0 | 1498.5 | 1862.2 | 2108.2 | 1898.9 | 1524.2 | 1153.3 | 1050.4 | 1065.1 |
| 45°   | 8635.0 | 4873.9 | 1278.2 | 1472.8 | 1887.9 | 2170.7 | 1909.9 | 1388.4 | 1087.2 | 1021.1 | 1028.4 |
| 47.5° | 8906.8 | 4734.4 | 1193.7 | 1428.8 | 1884.2 | 2192.7 | 1810.7 | 1333.3 | 1054.1 | 1072.5 | 1090.8 |
| 50°   | 8914.1 | 4547.0 | 1087.2 | 1333.3 | 1829.1 | 2152.3 | 1696.9 | 1281.8 | 1046.8 | 1123.9 | 1160.6 |
| 52.5° | 8814.9 | 4282.6 | 973.3  | 1197.4 | 1700.5 | 2012.7 | 1594.0 | 1259.8 | 1013.7 | 1006.4 | 1050.4 |
| 55°   | 8462.3 | 3786.8 | 782.3  | 969.6  | 1436.1 | 1660.1 | 1502.2 | 1219.4 | 914.5  | 830.1  | 837.4  |
| 57.5° | 6838.9 | 2714.3 | 576.6  | 694.2  | 1017.4 | 1215.7 | 1355.3 | 1201.0 | 822.7  | 705.2  | 708.9  |
| 60°   | 4234.8 | 1538.9 | 422.4  | 473.8  | 628.1  | 738.3  | 1098.2 | 1116.6 | 734.6  | 595.0  | 587.7  |
| 62.5° | 2174.4 | 760.3  | 326.9  | 334.2  | 385.7  | 433.4  | 752.9  | 936.6  | 664.8  | 565.6  | 565.6  |
| 65°   | 727.2  | 374.6  | 286.5  | 257.1  | 257.1  | 268.1  | 455.4  | 650.1  | 562.0  | 473.8  | 473.8  |
| 67.5° | 312.2  | 279.1  | 249.8  | 224.0  | 205.7  | 194.7  | 257.1  | 378.3  | 418.7  | 359.9  | 345.3  |
| 70°   | 242.4  | 235.1  | 216.7  | 187.3  | 161.6  | 146.9  | 150.6  | 194.7  | 238.7  | 231.4  | 224.0  |
| 72.5° | 180.0  | 180.0  | 172.6  | 146.9  | 124.9  | 106.5  | 99.2   | 102.8  | 113.9  | 117.5  | 121.2  |
| 75°   | 124.9  | 128.6  | 128.6  | 113.9  | 91.8   | 77.1   | 66.1   | 55.1   | 44.1   | 36.7   | 33.1   |
| 77.5° | 84.5   | 88.1   | 95.5   | 84.5   | 69.8   | 51.4   | 40.4   | 29.4   | 18.4   | 7.3    | 7.3    |
| 80°   | 73.5   | 84.5   | 91.8   | 84.5   | 73.5   | 55.1   | 40.4   | 22.0   | 11.0   | 0.0    | 0.0    |
| 82.5° | 77.1   | 84.5   | 95.5   | 80.8   | 69.8   | 51.4   | 40.4   | 25.7   | 11.0   | 3.7    | 0.0    |
| 85°   | 18.4   | 18.4   | 22.0   | 25.7   | 33.1   | 36.7   | 29.4   | 18.4   | 11.0   | 3.7    | 0.0    |
| 87.5° | 7.3    | 7.3    | 7.3    | 7.3    | 7.3    | 3.7    | 3.7    | 3.7    | 3.7    | 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)