

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: P459244

Luminaire Tested: **GLAN-SA7B-735-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459244
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA7B-735-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30216 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

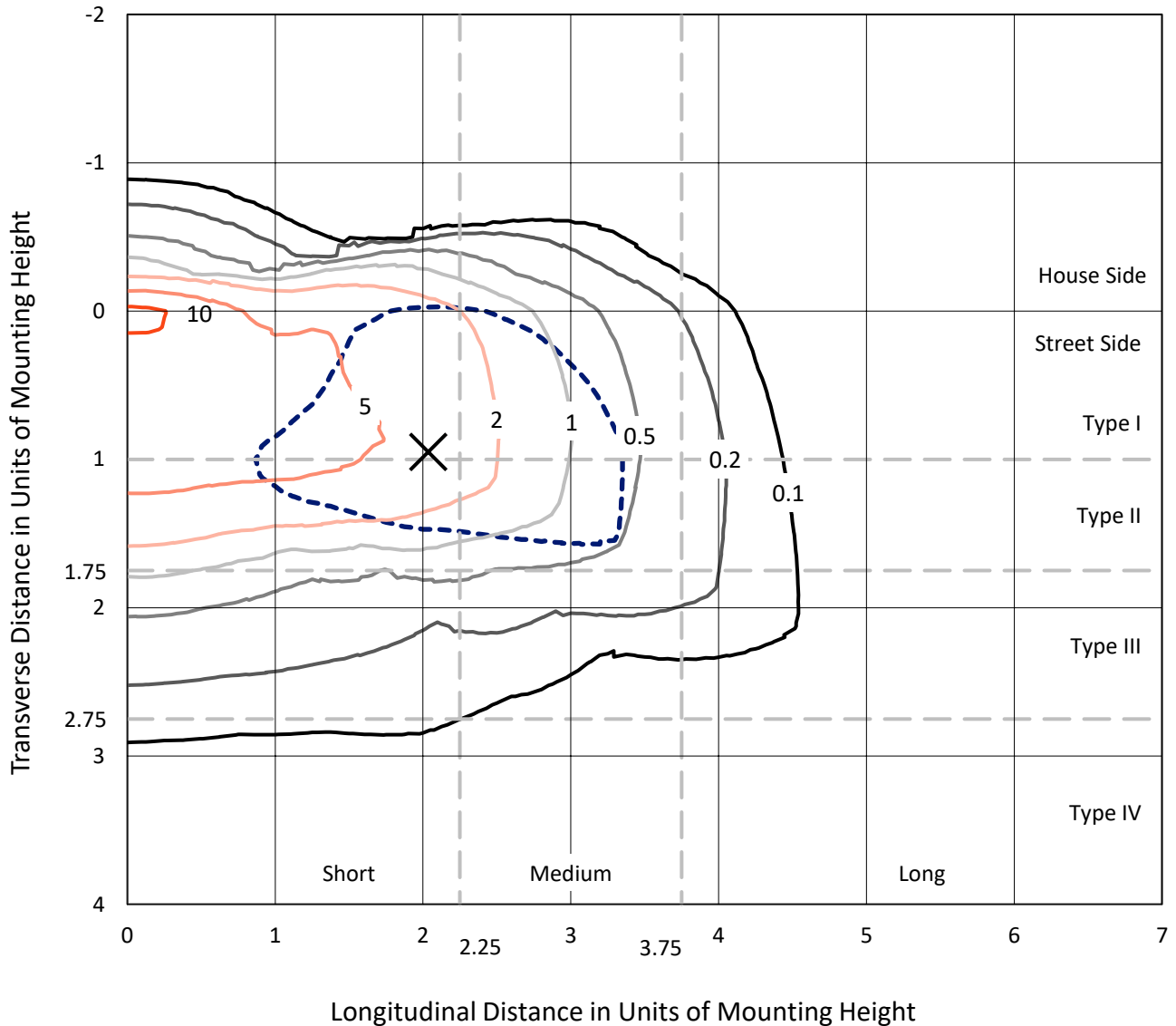
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P459244
 CATALOG NUMBER: GLAN-SA7B-735-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

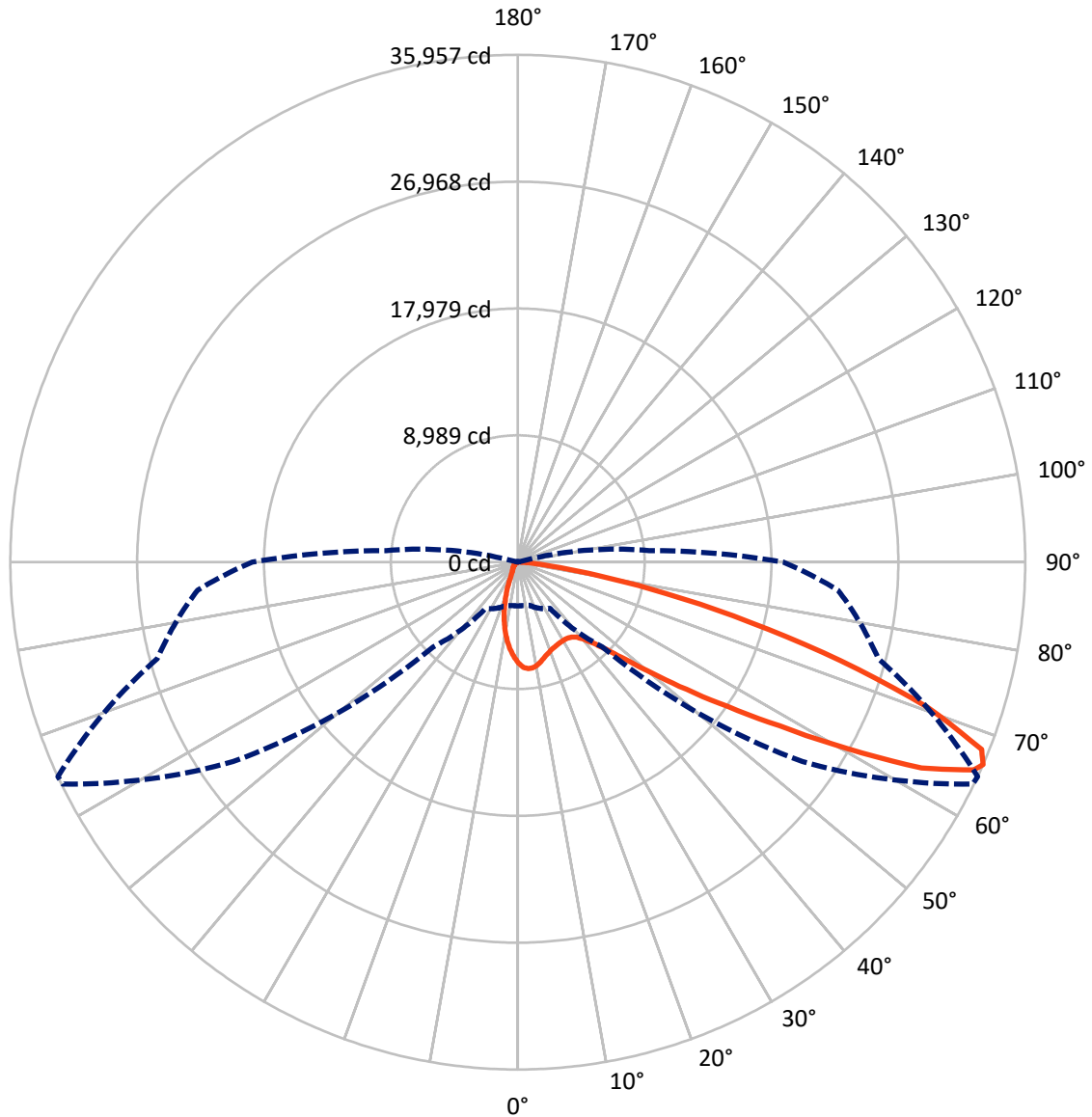
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
 Type II - Short - N/A

REPORT NUMBER: P459244
CATALOG NUMBER: GLAN-SA7B-735-U-SL2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P459244

CATALOG NUMBER: GLAN-SA7B-735-U-SL2-HSS

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3124.8 | 0.0 | 3124.8 |
| | % Fixture | 10.3 | 0.0 | 10.3 |
| Street Side | Lumens | 27091.2 | 0.0 | 27091.2 |
| | % Fixture | 89.7 | 0.0 | 89.7 |
| Total | Lumens | 30216.0 | 0.0 | 30216.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 586.0 | 1.9 |
| 10°-20° | 1276.8 | 4.2 |
| 20°-30° | 1829.1 | 6.1 |
| 30°-40° | 2671.5 | 8.8 |
| 40°-50° | 4479.7 | 14.8 |
| 50°-60° | 7475.9 | 24.7 |
| 60°-70° | 7935.4 | 26.3 |
| 70°-80° | 3593.9 | 11.9 |
| 80°-90° | 367.7 | 1.2 |
| 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° | 30216.0 | 100.0 |
| 0°-180° | 30216.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P459244

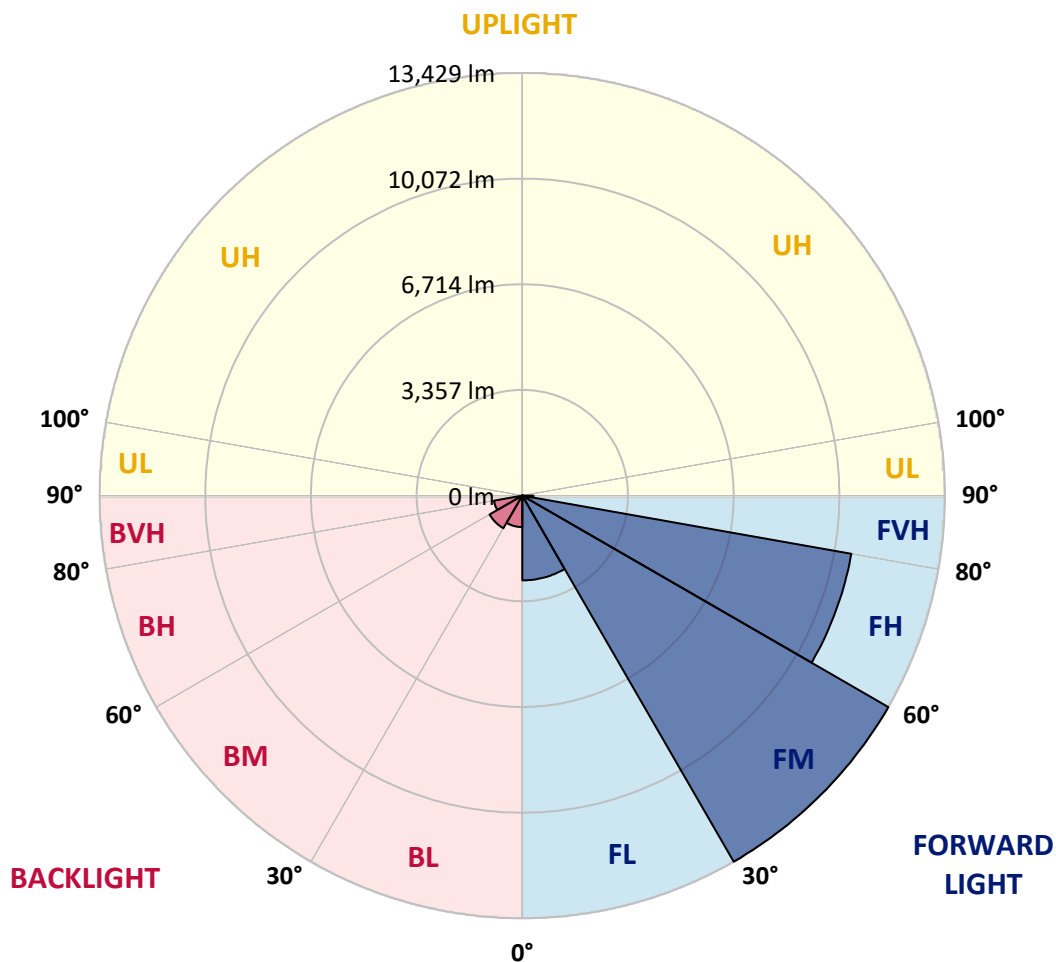
CATALOG NUMBER: GLAN-SA7B-735-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2692.4 | 8.9 | | | |
| FM (30°-60°) | 13428.7 | 44.4 | | | |
| FH (60°-80°) | 10614.2 | 35.1 | | | G4/12000 |
| FVH (80°-90°) | 356.0 | 1.2 | | | G3/500 |
| BL (0°-30°) | 999.6 | 3.3 | B2/1000 | | |
| BM (30°-60°) | 1198.4 | 4.0 | B2/2500 | | |
| BH (60°-80°) | 915.1 | 3.0 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 11.7 | 0.0 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4

Type II Short





REPORT NUMBER: P459244

CATALOG NUMBER: GLAN-SA7B-735-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 64° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7165.3 | 7165.3 | 7165.3 | 7165.3 | 7165.3 | 7165.3 | 7165.3 | 7165.3 | 7165.3 | 7165.3 | 7165.3 |
| 2.5° | 7551.0 | 7559.2 | 7569.4 | 7583.7 | 7593.9 | 7563.3 | 7520.4 | 7471.5 | 7461.2 | 7357.2 | 7230.6 |
| 5° | 7147.0 | 7159.2 | 7249.0 | 7298.0 | 7408.2 | 7508.2 | 7571.5 | 7579.6 | 7575.5 | 7477.6 | 7275.5 |
| 7.5° | 6571.4 | 6606.1 | 6693.9 | 6779.6 | 6985.7 | 7175.5 | 7400.0 | 7557.2 | 7567.4 | 7540.8 | 7289.8 |
| 10° | 6104.1 | 6126.5 | 6171.4 | 6340.8 | 6512.3 | 6802.1 | 7116.3 | 7412.3 | 7436.8 | 7542.9 | 7277.6 |
| 12.5° | 5738.8 | 5771.4 | 5826.5 | 5957.2 | 6163.3 | 6436.8 | 6793.9 | 7191.9 | 7242.9 | 7504.1 | 7242.9 |
| 15° | 5483.7 | 5500.0 | 5555.1 | 5683.7 | 5883.7 | 6136.8 | 6498.0 | 6961.2 | 7006.1 | 7453.1 | 7236.8 |
| 17.5° | 5363.3 | 5381.6 | 5420.4 | 5522.5 | 5687.8 | 5922.5 | 6275.5 | 6775.5 | 6832.7 | 7420.4 | 7259.2 |
| 20° | 5395.9 | 5412.3 | 5414.3 | 5467.4 | 5579.6 | 5777.6 | 6112.3 | 6602.1 | 6675.5 | 7400.0 | 7295.9 |
| 22.5° | 5581.6 | 5583.7 | 5559.2 | 5534.7 | 5573.5 | 5716.3 | 6012.3 | 6491.9 | 6567.4 | 7395.9 | 7338.8 |
| 25° | 5859.2 | 5865.3 | 5824.5 | 5738.8 | 5661.2 | 5734.7 | 5989.8 | 6420.4 | 6487.8 | 7385.7 | 7365.3 |
| 27.5° | 6242.9 | 6240.8 | 6228.6 | 6085.7 | 5865.3 | 5816.3 | 6008.2 | 6381.7 | 6438.8 | 7357.2 | 7375.5 |
| 30° | 6779.6 | 6763.3 | 6736.8 | 6575.5 | 6238.8 | 6014.3 | 6085.7 | 6357.2 | 6410.2 | 7316.3 | 7349.0 |
| 32.5° | 7308.2 | 7369.4 | 7365.3 | 7212.3 | 6791.9 | 6367.4 | 6247.0 | 6389.8 | 6428.6 | 7289.8 | 7310.2 |
| 35° | 7924.5 | 7922.5 | 8079.6 | 8022.5 | 7530.6 | 6818.4 | 6522.5 | 6498.0 | 6528.6 | 7308.2 | 7291.9 |
| 37.5° | 8495.9 | 8549.0 | 8793.9 | 8853.1 | 8404.1 | 7455.1 | 6912.3 | 6730.6 | 6740.8 | 7432.7 | 7336.8 |
| 40° | 9208.2 | 9310.2 | 9675.5 | 9873.5 | 9477.6 | 8400.0 | 7487.8 | 7157.2 | 7159.2 | 7738.8 | 7506.1 |
| 42.5° | 10126.6 | 10287.8 | 10628.6 | 10959.2 | 10747.0 | 9518.4 | 8351.0 | 7832.7 | 7828.6 | 8277.6 | 7893.9 |
| 45° | 11242.9 | 11355.1 | 11742.9 | 12267.4 | 12132.7 | 11079.6 | 9608.2 | 8879.6 | 8826.6 | 9161.3 | 8581.7 |
| 47.5° | 12206.2 | 12359.2 | 12753.1 | 13351.1 | 13963.3 | 12985.8 | 11110.2 | 10318.4 | 10283.7 | 10567.4 | 9761.3 |
| 50° | 12626.6 | 12761.3 | 13175.6 | 14014.3 | 15498.0 | 15487.8 | 13347.0 | 12418.4 | 12359.2 | 12512.3 | 11585.7 |
| 52.5° | 12165.3 | 12291.9 | 12710.2 | 13755.1 | 16220.5 | 18536.8 | 16587.8 | 15053.1 | 14981.7 | 14785.8 | 13765.3 |
| 55° | 10585.7 | 10689.8 | 11308.2 | 12508.2 | 15942.9 | 20569.5 | 21053.1 | 18308.2 | 18030.7 | 17269.4 | 16232.7 |
| 57.5° | 8428.6 | 8375.5 | 8759.2 | 10153.1 | 14314.3 | 21251.1 | 25636.8 | 22363.3 | 21867.4 | 19416.4 | 18320.5 |
| 60° | 5840.8 | 6004.1 | 6159.2 | 7077.6 | 10763.3 | 20069.4 | 28487.8 | 27461.3 | 26808.2 | 21528.6 | 20320.5 |
| 62.5° | 4293.9 | 4402.1 | 4504.1 | 4928.6 | 6767.4 | 16024.5 | 28991.9 | 32698.1 | 32118.5 | 23771.5 | 22228.6 |
| 65° | 3395.9 | 3404.1 | 3444.9 | 3863.3 | 4459.2 | 10420.4 | 26569.5 | 35651.1 | 35502.1 | 25930.7 | 23002.1 |
| 66° | 3093.9 | 3095.9 | 3159.2 | 3608.2 | 4002.1 | 8485.7 | 24628.6 | 35875.6 | 35957.3 | 26449.1 | 22775.6 |
| 67.5° | 2704.1 | 2695.9 | 2787.8 | 3242.9 | 3644.9 | 6118.4 | 21155.2 | 34965.4 | 35449.1 | 26847.0 | 21961.3 |
| 70° | 2095.9 | 2085.7 | 2198.0 | 2720.4 | 3357.2 | 4081.6 | 14061.3 | 30022.5 | 30802.1 | 26032.7 | 19430.7 |
| 72.5° | 1395.9 | 1404.1 | 1595.9 | 2146.9 | 3204.1 | 3593.9 | 8459.2 | 22838.8 | 23940.9 | 21498.0 | 15285.8 |
| 75° | 814.3 | 828.6 | 1046.9 | 1595.9 | 2781.6 | 3426.5 | 4787.8 | 16285.8 | 16989.8 | 14844.9 | 9522.5 |
| 77.5° | 426.5 | 432.7 | 585.7 | 1053.1 | 2132.7 | 3181.6 | 3189.8 | 10404.1 | 10734.7 | 7214.3 | 3769.4 |
| 80° | 226.5 | 220.4 | 314.3 | 634.7 | 1467.4 | 2793.9 | 2587.8 | 5508.2 | 5726.5 | 2142.9 | 953.1 |
| 82.5° | 85.7 | 93.9 | 167.3 | 416.3 | 867.3 | 2006.1 | 2228.6 | 2434.7 | 2359.2 | 471.4 | 400.0 |
| 85° | 16.3 | 20.4 | 71.4 | 246.9 | 436.7 | 838.8 | 1642.9 | 1193.9 | 1106.1 | 177.6 | 230.6 |
| 87.5° | 2.0 | 4.1 | 20.4 | 59.2 | 63.3 | 283.7 | 485.7 | 330.6 | 285.7 | 65.3 | 95.9 |
| 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: P459244

CATALOG NUMBER: GLAN-SA7B-735-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7165.3 | 7165.3 | 7165.3 | 7165.3 | 7165.3 | 7165.3 | 7165.3 | 7165.3 | 7165.3 | 7165.3 | 7165.3 |
| 2.5° | 7169.4 | 7114.3 | 6930.6 | 6749.0 | 6563.3 | 6395.9 | 6281.7 | 6095.9 | 6049.0 | 5981.7 | 5942.9 |
| 5° | 7155.1 | 7026.6 | 6673.5 | 6287.8 | 5928.6 | 5540.8 | 5244.9 | 4959.2 | 4806.1 | 4728.6 | 4700.0 |
| 7.5° | 7114.3 | 6910.2 | 6359.2 | 5755.1 | 5179.6 | 4600.0 | 4095.9 | 3712.3 | 3465.3 | 3295.9 | 3181.6 |
| 10° | 7032.7 | 6751.0 | 5993.9 | 5163.3 | 4293.9 | 3528.6 | 2889.8 | 2404.1 | 2028.6 | 1910.2 | 1914.3 |
| 12.5° | 6949.0 | 6573.5 | 5585.7 | 4506.1 | 3428.6 | 2463.3 | 1785.7 | 1402.0 | 1222.5 | 1163.3 | 1151.0 |
| 15° | 6871.4 | 6404.1 | 5185.7 | 3869.4 | 2553.1 | 1595.9 | 1151.0 | 1016.3 | 967.3 | 957.1 | 955.1 |
| 17.5° | 6830.6 | 6247.0 | 4759.2 | 3140.8 | 1781.6 | 1083.7 | 922.5 | 885.7 | 871.4 | 861.2 | 857.1 |
| 20° | 6795.9 | 6110.2 | 4351.0 | 2459.2 | 1218.4 | 887.8 | 826.5 | 791.8 | 767.3 | 757.1 | 751.0 |
| 22.5° | 6771.4 | 5969.4 | 3928.6 | 1904.1 | 932.7 | 787.8 | 732.7 | 687.8 | 653.1 | 640.8 | 632.7 |
| 25° | 6734.7 | 5814.3 | 3502.1 | 1391.8 | 785.7 | 700.0 | 636.7 | 583.7 | 538.8 | 516.3 | 512.2 |
| 27.5° | 6681.7 | 5638.8 | 3034.7 | 1030.6 | 702.0 | 622.5 | 544.9 | 479.6 | 434.7 | 410.2 | 412.2 |
| 30° | 6595.9 | 5455.1 | 2567.4 | 818.4 | 634.7 | 542.9 | 459.2 | 395.9 | 353.1 | 334.7 | 332.7 |
| 32.5° | 6493.9 | 5232.7 | 2138.8 | 702.0 | 573.5 | 471.4 | 383.7 | 328.6 | 295.9 | 281.6 | 279.6 |
| 35° | 6398.0 | 5008.2 | 1702.0 | 630.6 | 510.2 | 406.1 | 322.4 | 275.5 | 251.0 | 238.8 | 240.8 |
| 37.5° | 6344.9 | 4808.2 | 1326.5 | 573.5 | 459.2 | 349.0 | 277.6 | 236.7 | 214.3 | 204.1 | 202.0 |
| 40° | 6379.6 | 4644.9 | 1055.1 | 522.5 | 402.0 | 300.0 | 238.8 | 204.1 | 181.6 | 167.3 | 167.3 |
| 42.5° | 6542.9 | 4573.5 | 851.0 | 473.5 | 349.0 | 259.2 | 208.2 | 175.5 | 151.0 | 136.7 | 138.8 |
| 45° | 7040.8 | 4649.0 | 712.2 | 428.6 | 300.0 | 224.5 | 179.6 | 144.9 | 122.4 | 112.2 | 110.2 |
| 47.5° | 7867.4 | 4932.7 | 616.3 | 381.6 | 257.1 | 191.8 | 151.0 | 120.4 | 98.0 | 89.8 | 87.8 |
| 50° | 9312.3 | 5518.4 | 544.9 | 334.7 | 218.4 | 163.3 | 124.5 | 95.9 | 77.6 | 69.4 | 69.4 |
| 52.5° | 11300.0 | 6795.9 | 493.9 | 281.6 | 183.7 | 138.8 | 102.0 | 77.6 | 61.2 | 55.1 | 53.1 |
| 55° | 13377.6 | 8142.9 | 467.3 | 236.7 | 153.1 | 114.3 | 81.6 | 61.2 | 46.9 | 40.8 | 38.8 |
| 57.5° | 15375.6 | 9200.0 | 436.7 | 191.8 | 122.4 | 87.8 | 63.3 | 46.9 | 32.7 | 28.6 | 26.5 |
| 60° | 17291.9 | 10055.1 | 371.4 | 153.1 | 95.9 | 63.3 | 46.9 | 32.7 | 22.4 | 18.4 | 18.4 |
| 62.5° | 19006.2 | 10553.1 | 291.8 | 122.4 | 73.5 | 44.9 | 30.6 | 24.5 | 16.3 | 12.2 | 12.2 |
| 65° | 19206.2 | 9906.2 | 220.4 | 93.9 | 53.1 | 28.6 | 18.4 | 18.4 | 12.2 | 8.2 | 8.2 |
| 66° | 18804.1 | 9357.2 | 193.9 | 85.7 | 46.9 | 24.5 | 16.3 | 14.3 | 10.2 | 6.1 | 6.1 |
| 67.5° | 17906.2 | 8420.4 | 167.3 | 73.5 | 38.8 | 18.4 | 12.2 | 12.2 | 8.2 | 4.1 | 4.1 |
| 70° | 15471.5 | 6877.6 | 132.7 | 55.1 | 28.6 | 14.3 | 8.2 | 8.2 | 6.1 | 4.1 | 4.1 |
| 72.5° | 11791.9 | 5134.7 | 108.2 | 40.8 | 20.4 | 10.2 | 6.1 | 6.1 | 6.1 | 4.1 | 4.1 |
| 75° | 7112.3 | 2765.3 | 83.7 | 30.6 | 18.4 | 8.2 | 4.1 | 6.1 | 8.2 | 6.1 | 4.1 |
| 77.5° | 2620.4 | 940.8 | 65.3 | 24.5 | 14.3 | 8.2 | 4.1 | 4.1 | 8.2 | 6.1 | 6.1 |
| 80° | 642.9 | 244.9 | 46.9 | 20.4 | 14.3 | 8.2 | 4.1 | 4.1 | 8.2 | 8.2 | 8.2 |
| 82.5° | 298.0 | 104.1 | 32.7 | 18.4 | 14.3 | 8.2 | 4.1 | 4.1 | 6.1 | 8.2 | 8.2 |
| 85° | 171.4 | 49.0 | 26.5 | 20.4 | 14.3 | 8.2 | 4.1 | 4.1 | 6.1 | 8.2 | 8.2 |
| 87.5° | 69.4 | 24.5 | 24.5 | 20.4 | 16.3 | 10.2 | 4.1 | 4.1 | 4.1 | 6.1 | 6.1 |
| 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)