

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: P457461

Luminaire Tested: **GLAN-SA8D-740-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457461  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA8D-740-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 45863 lumens  
Efficiency: N/A  
Efficacy: 93.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 493  
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



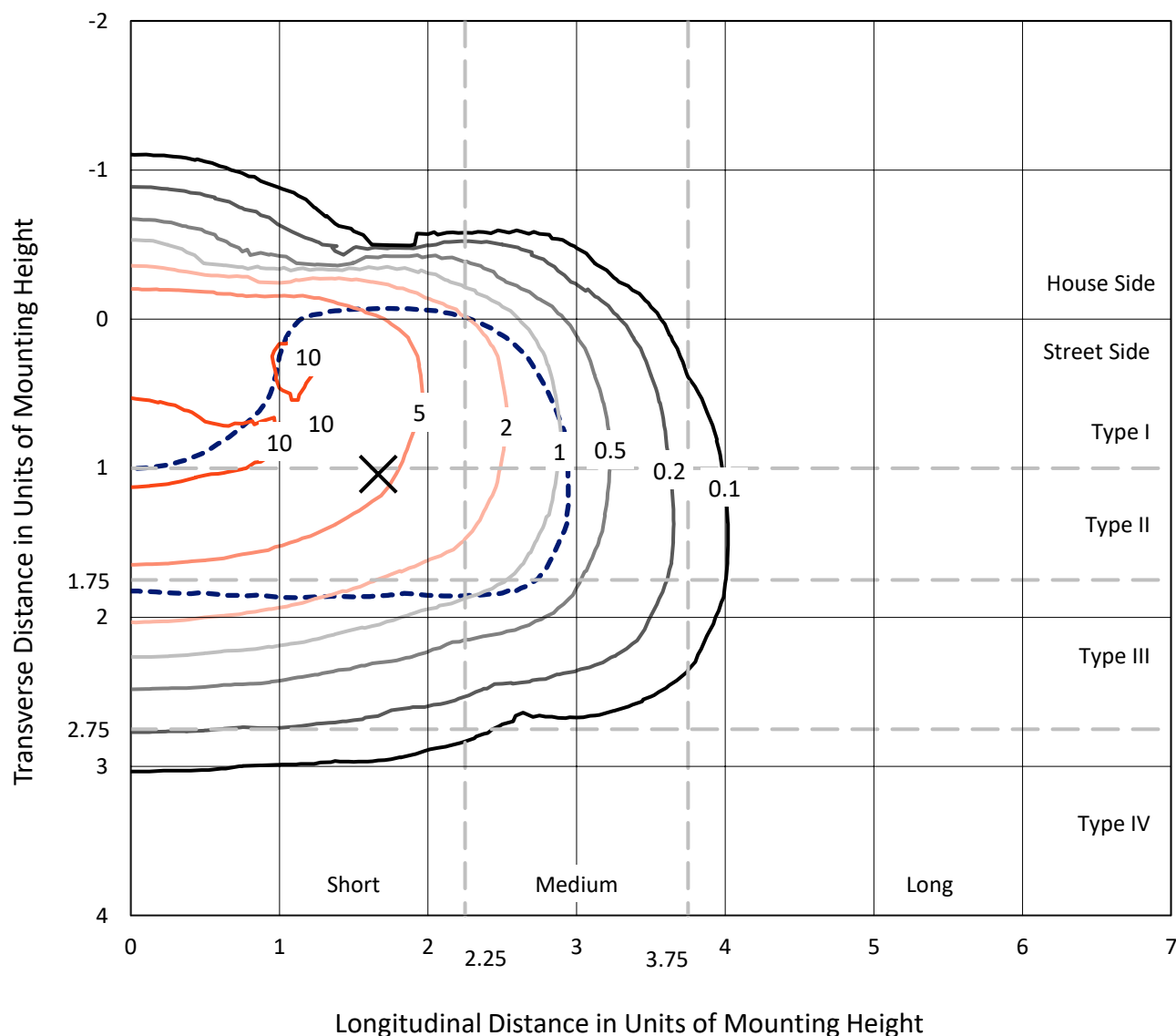
REPORT NUMBER: P457461

CATALOG NUMBER: GLAN-SA8D-740-U-T3-HSS

## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

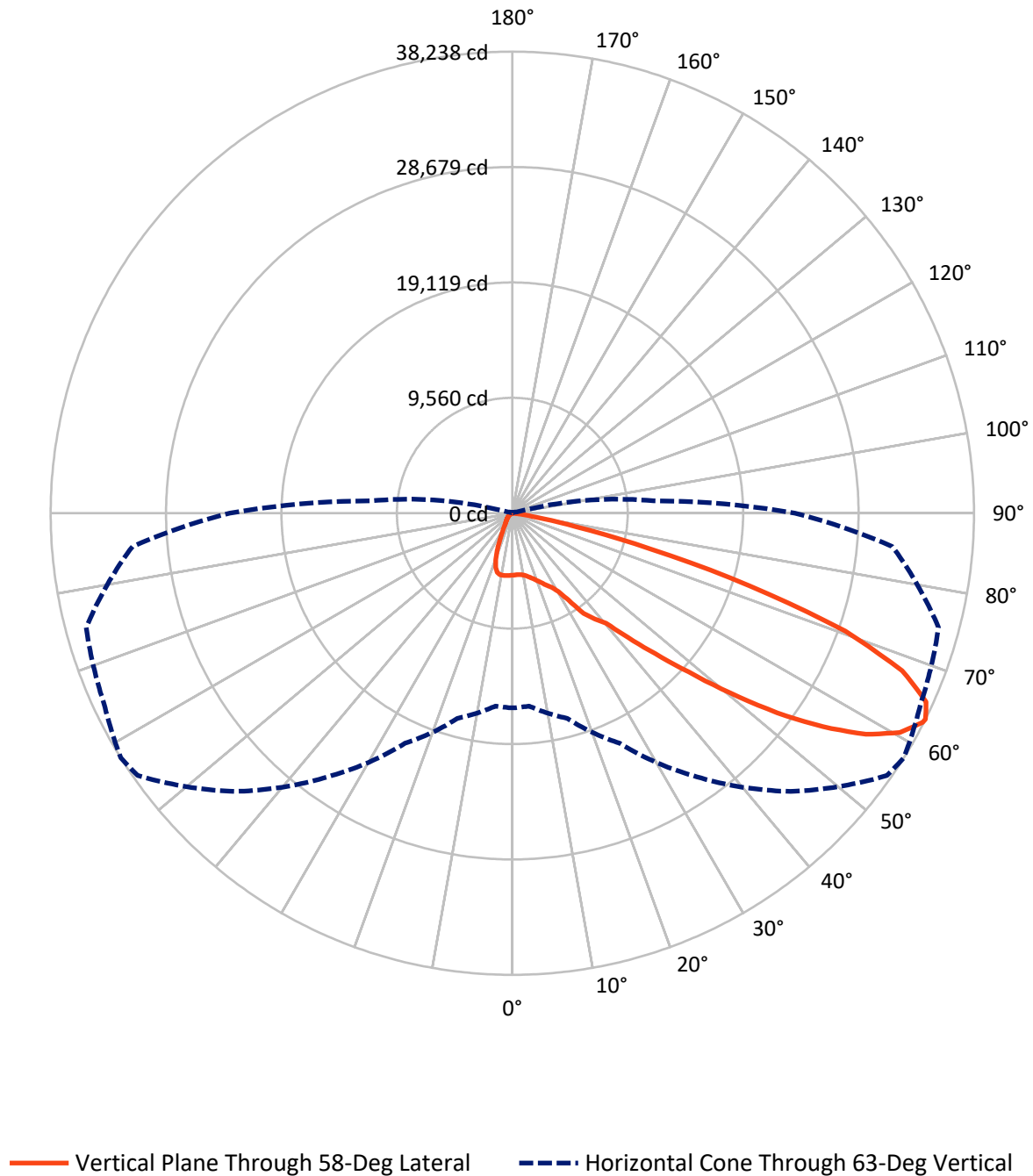


Based on 25 foot mounting height. Maximum calculated value = 11.2 fc  
 Type III - Short - N/A

REPORT NUMBER: P457461

CATALOG NUMBER: GLAN-SA8D-740-U-T3-HSS

## Luminous Intensity Polar Plot



REPORT NUMBER: P457461

CATALOG NUMBER: GLAN-SA8D-740-U-T3-HSS

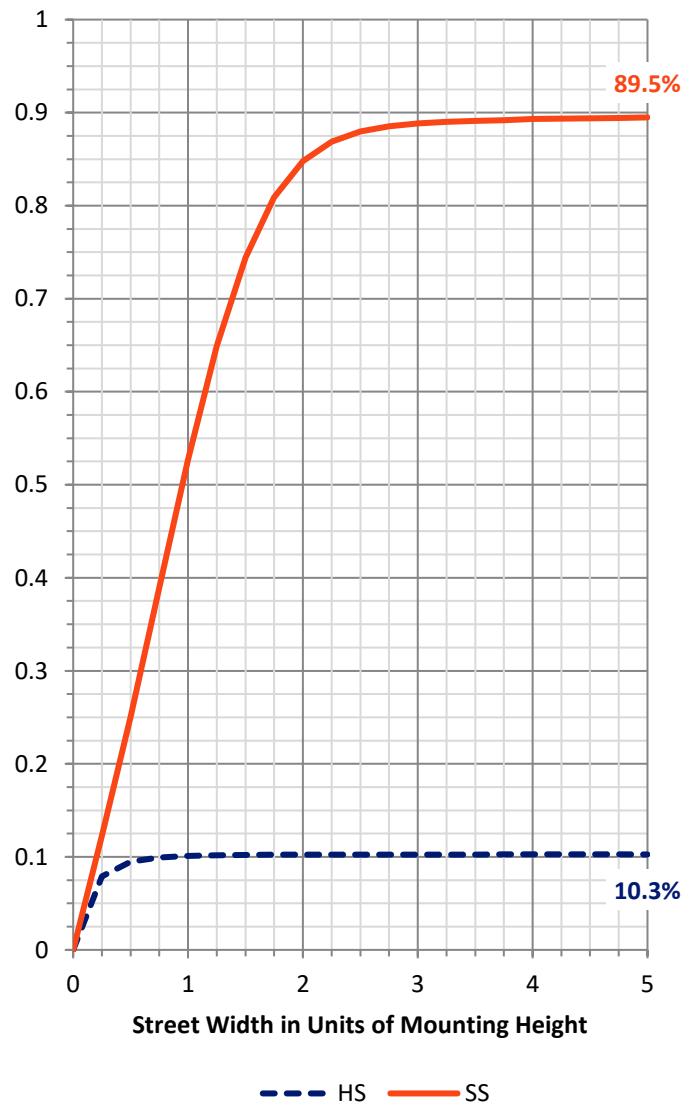
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4748.8   | 0.0    | 4748.8  |
|                    | % Fixture | 10.4     | 0.0    | 10.4    |
| <b>Street Side</b> | Lumens    | 41114.2  | 0.0    | 41114.2 |
|                    | % Fixture | 89.6     | 0.0    | 89.6    |
| <b>Total</b>       | Lumens    | 45863.0  | 0.0    | 45863.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 480.7   | 1.0       |
| 10°-20°   | 1309.2  | 2.9       |
| 20°-30°   | 2272.1  | 5.0       |
| 30°-40°   | 4175.2  | 9.1       |
| 40°-50°   | 7859.8  | 17.1      |
| 50°-60°   | 13443.6 | 29.3      |
| 60°-70°   | 12872.2 | 28.1      |
| 70°-80°   | 3282.5  | 7.2       |
| 80°-90°   | 167.8   | 0.4       |
| 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°    | 45863.0 | 100.0     |
| 0°-180°   | 45863.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P457461

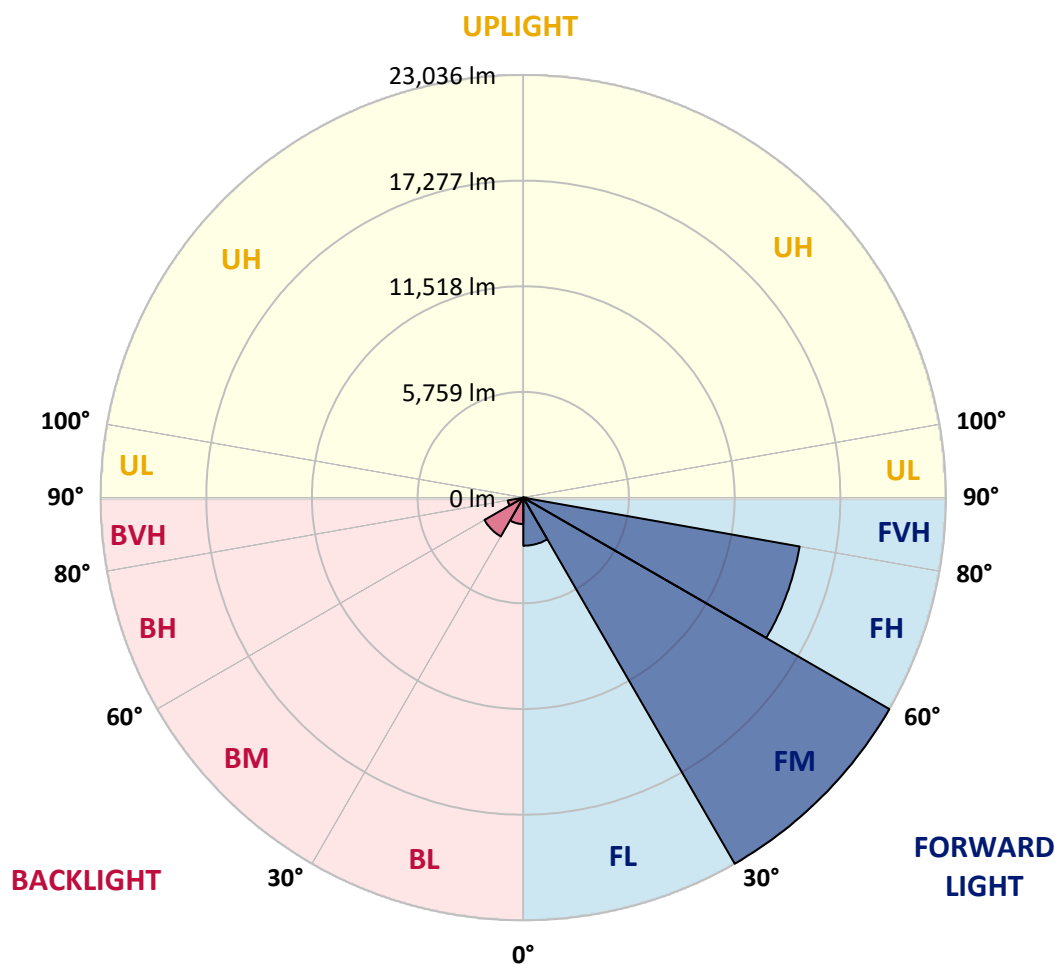
CATALOG NUMBER: GLAN-SA8D-740-U-T3-HSS

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2621.7  | 5.7       |                         |      |         |
| FM   | (30°-60°)   | 23036.1 | 50.2      |                         |      |         |
| FH   | (60°-80°)   | 15295.1 | 33.3      |                         |      | G5      |
| FVH  | (80°-90°)   | 161.3   | 0.4       |                         |      | G2/225  |
| BL   | (0°-30°)    | 1440.2  | 3.1       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2442.5  | 5.3       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 859.6   | 1.9       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 6.5     | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**

Type III Short



REPORT NUMBER: P457461

CATALOG NUMBER: GLAN-SA8D-740-U-T3-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 58°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5134.5  | 5134.5  | 5134.5  | 5134.5  | 5134.5  | 5134.5  | 5134.5  | 5134.5  | 5134.5  | 5134.5  | 5134.5  |
| 2.5°  | 5006.8  | 5024.0  | 5041.3  | 5048.2  | 5072.4  | 5096.6  | 5113.8  | 5110.4  | 5138.0  | 5151.8  | 5151.8  |
| 5°    | 4806.5  | 4806.5  | 4851.4  | 4892.8  | 4961.9  | 5031.0  | 5096.6  | 5110.4  | 5162.2  | 5210.5  | 5227.8  |
| 7.5°  | 4637.3  | 4647.7  | 4682.2  | 4758.2  | 4851.4  | 4972.3  | 5103.5  | 5134.5  | 5224.3  | 5331.4  | 5376.2  |
| 10°   | 4557.9  | 4564.8  | 4609.7  | 4689.1  | 4806.5  | 4972.3  | 5155.3  | 5214.0  | 5352.1  | 5521.3  | 5583.4  |
| 12.5° | 4540.6  | 4551.0  | 4595.9  | 4685.7  | 4820.3  | 5020.6  | 5269.2  | 5331.4  | 5531.6  | 5749.2  | 5842.4  |
| 15°   | 4571.7  | 4578.6  | 4623.5  | 4720.2  | 4868.7  | 5106.9  | 5421.1  | 5507.5  | 5745.7  | 5997.8  | 6118.6  |
| 17.5° | 4682.2  | 4675.3  | 4706.4  | 4785.8  | 4951.5  | 5214.0  | 5604.1  | 5707.7  | 5987.4  | 6332.7  | 6412.1  |
| 20°   | 5151.8  | 5106.9  | 5079.3  | 5010.2  | 5075.8  | 5365.9  | 5825.1  | 5977.1  | 6322.4  | 6674.6  | 6729.8  |
| 22.5° | 6163.5  | 6063.4  | 5866.6  | 5597.2  | 5390.1  | 5573.1  | 6091.0  | 6267.1  | 6712.5  | 7057.8  | 7057.8  |
| 25°   | 7451.5  | 7323.7  | 7126.9  | 6539.9  | 6032.3  | 5914.9  | 6391.4  | 6612.4  | 7137.3  | 7486.0  | 7372.1  |
| 27.5° | 9064.0  | 8963.9  | 8580.6  | 7896.9  | 7120.0  | 6512.3  | 6740.2  | 6943.9  | 7513.6  | 7934.9  | 7696.6  |
| 30°   | 10376.1 | 10327.8 | 10013.6 | 9402.4  | 8546.1  | 7658.6  | 7389.3  | 7524.0  | 8014.3  | 8501.2  | 8256.0  |
| 32.5° | 11484.5 | 11484.5 | 11163.4 | 10593.7 | 9792.6  | 9005.3  | 8490.8  | 8587.5  | 9057.1  | 9619.9  | 9164.1  |
| 35°   | 12703.4 | 12662.0 | 12403.0 | 11860.9 | 10963.1 | 10269.1 | 10058.5 | 10189.7 | 10614.4 | 11032.2 | 9910.0  |
| 37.5° | 13984.5 | 13970.6 | 13701.3 | 13176.5 | 12444.4 | 11570.8 | 11077.1 | 11111.6 | 11329.1 | 11584.7 | 10783.6 |
| 40°   | 15376.0 | 15396.7 | 15044.5 | 14719.9 | 14029.3 | 13135.0 | 12188.9 | 11971.4 | 12175.1 | 12896.8 | 12396.1 |
| 42.5° | 17019.6 | 16971.3 | 16819.3 | 16377.4 | 15821.4 | 15286.2 | 14150.2 | 14070.8 | 14250.3 | 15023.8 | 14481.7 |
| 45°   | 18929.1 | 18998.1 | 18735.7 | 18490.6 | 18117.6 | 17672.2 | 16722.6 | 16584.5 | 16781.3 | 17983.0 | 17213.0 |
| 47.5° | 20842.0 | 20776.4 | 20945.6 | 20900.7 | 21101.0 | 20769.5 | 19930.4 | 19647.3 | 20120.4 | 21259.8 | 20127.3 |
| 50°   | 22299.2 | 22371.7 | 22723.9 | 23238.4 | 24098.2 | 24284.6 | 23480.1 | 23383.4 | 23594.0 | 24326.0 | 22734.2 |
| 52.5° | 23245.3 | 23487.0 | 24039.5 | 25361.9 | 26912.3 | 28117.4 | 27506.2 | 27454.4 | 27368.1 | 27564.9 | 25227.3 |
| 55°   | 23863.4 | 24108.5 | 24830.2 | 26777.6 | 29446.8 | 31404.6 | 31435.7 | 31214.7 | 30645.0 | 30503.4 | 27558.0 |
| 57.5° | 23483.5 | 23531.9 | 24560.9 | 27164.4 | 30852.1 | 33749.2 | 34764.3 | 34543.3 | 33490.2 | 32955.0 | 29616.0 |
| 60°   | 21107.9 | 21208.0 | 22641.0 | 25700.3 | 30241.0 | 34515.7 | 36970.8 | 36870.6 | 35717.3 | 35113.1 | 31218.1 |
| 62.5° | 16898.7 | 17188.8 | 18663.2 | 22074.7 | 27399.2 | 33224.3 | 37865.1 | 38148.2 | 37250.5 | 36418.3 | 31722.3 |
| 63°   | 16125.3 | 16032.1 | 17589.3 | 21018.1 | 26646.4 | 32585.5 | 37878.9 | 38238.0 | 37319.5 | 36542.6 | 31584.2 |
| 65°   | 11936.9 | 12216.5 | 13228.3 | 16574.2 | 22174.9 | 29612.5 | 37026.0 | 37661.4 | 37064.0 | 35993.6 | 30054.5 |
| 67.5° | 6702.2  | 6688.4  | 7807.1  | 10845.7 | 15521.0 | 23228.0 | 33479.8 | 34823.0 | 34698.7 | 32298.9 | 24913.1 |
| 70°   | 3280.3  | 3332.1  | 3791.3  | 5621.4  | 9001.8  | 16025.2 | 27820.4 | 29270.7 | 29315.6 | 25368.8 | 17226.8 |
| 72.5° | 1484.8  | 1508.9  | 1837.0  | 2738.2  | 4627.0  | 8532.2  | 19170.8 | 20555.4 | 20299.9 | 16166.7 | 9512.9  |
| 75°   | 783.8   | 835.6   | 1011.7  | 1377.7  | 2230.6  | 3518.6  | 10427.9 | 11767.7 | 11232.5 | 7385.9  | 3501.3  |
| 77.5° | 580.1   | 597.4   | 687.1   | 877.0   | 1194.7  | 1370.8  | 4499.2  | 5352.1  | 5013.7  | 2672.6  | 1160.2  |
| 80°   | 424.7   | 438.5   | 511.0   | 621.5   | 752.7   | 697.5   | 1695.4  | 1944.0  | 1743.7  | 908.1   | 355.7   |
| 82.5° | 259.0   | 262.4   | 372.9   | 462.7   | 473.1   | 390.2   | 559.4   | 600.8   | 628.4   | 511.0   | 193.4   |
| 85°   | 93.2    | 117.4   | 252.1   | 334.9   | 279.7   | 196.8   | 234.8   | 259.0   | 283.1   | 324.6   | 113.9   |
| 87.5° | 10.4    | 13.8    | 120.9   | 162.3   | 79.4    | 72.5    | 86.3    | 96.7    | 103.6   | 120.9   | 55.2    |
| 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: P457461

CATALOG NUMBER: GLAN-SA8D-740-U-T3-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 5134.5  | 5134.5  | 5134.5 | 5134.5 | 5134.5 | 5134.5 | 5134.5 | 5134.5 | 5134.5 | 5134.5 | 5134.5 |
| 2.5°  | 5165.6  | 5179.4  | 5169.1 | 5151.8 | 5148.4 | 5138.0 | 5117.3 | 5117.3 | 5117.3 | 5124.2 | 5117.3 |
| 5°    | 5241.6  | 5251.9  | 5227.8 | 5193.2 | 5155.3 | 5106.9 | 5055.1 | 5024.0 | 5020.6 | 5013.7 | 4996.4 |
| 7.5°  | 5386.6  | 5400.4  | 5345.2 | 5262.3 | 5158.7 | 5041.3 | 4930.8 | 4827.2 | 4778.9 | 4740.9 | 4740.9 |
| 10°   | 5597.2  | 5611.0  | 5500.6 | 5352.1 | 5144.9 | 4906.6 | 4644.2 | 4406.0 | 4219.5 | 4133.2 | 4112.5 |
| 12.5° | 5849.3  | 5856.2  | 5673.2 | 5414.2 | 5072.4 | 4613.1 | 4053.8 | 3532.4 | 3169.8 | 3004.1 | 2986.8 |
| 15°   | 6125.5  | 6077.2  | 5835.5 | 5438.4 | 4865.2 | 4008.9 | 3042.1 | 2403.3 | 2026.9 | 1916.4 | 1957.8 |
| 17.5° | 6405.2  | 6315.4  | 5959.8 | 5400.4 | 4399.1 | 3042.1 | 2044.1 | 1640.2 | 1522.8 | 1491.7 | 1491.7 |
| 20°   | 6667.7  | 6543.3  | 6049.6 | 5234.7 | 3591.1 | 2095.9 | 1515.8 | 1419.2 | 1398.4 | 1377.7 | 1381.2 |
| 22.5° | 6930.1  | 6740.2  | 6129.0 | 4865.2 | 2676.0 | 1498.6 | 1357.0 | 1325.9 | 1298.3 | 1270.7 | 1267.2 |
| 25°   | 7185.6  | 6923.2  | 6160.1 | 4181.5 | 1823.2 | 1288.0 | 1239.6 | 1198.2 | 1142.9 | 1111.9 | 1104.9 |
| 27.5° | 7451.5  | 7144.2  | 6139.3 | 3318.3 | 1329.4 | 1153.3 | 1104.9 | 1046.2 | 980.6  | 925.4  | 925.4  |
| 30°   | 7962.5  | 7565.4  | 6066.8 | 2386.0 | 1118.8 | 1015.2 | 953.0  | 859.8  | 787.3  | 732.0  | 728.6  |
| 32.5° | 8660.0  | 8114.4  | 5818.2 | 1678.1 | 994.5  | 894.3  | 801.1  | 697.5  | 621.5  | 580.1  | 580.1  |
| 35°   | 9281.5  | 8666.9  | 5352.1 | 1236.2 | 894.3  | 776.9  | 663.0  | 562.8  | 504.1  | 476.5  | 466.1  |
| 37.5° | 10227.6 | 9474.9  | 4709.8 | 1004.8 | 797.6  | 673.3  | 555.9  | 462.7  | 414.4  | 393.6  | 393.6  |
| 40°   | 11646.8 | 10462.4 | 3922.6 | 880.5  | 704.4  | 573.2  | 462.7  | 390.2  | 352.2  | 328.0  | 328.0  |
| 42.5° | 13407.8 | 11671.0 | 3124.9 | 790.7  | 618.1  | 493.8  | 386.7  | 331.5  | 297.0  | 279.7  | 276.2  |
| 45°   | 15624.6 | 12945.1 | 2406.7 | 707.9  | 549.0  | 421.3  | 328.0  | 279.7  | 245.2  | 234.8  | 238.3  |
| 47.5° | 17938.1 | 14067.3 | 1864.6 | 635.3  | 476.5  | 355.7  | 279.7  | 241.7  | 217.5  | 203.7  | 203.7  |
| 50°   | 19913.2 | 14840.8 | 1415.7 | 552.5  | 421.3  | 300.4  | 245.2  | 217.5  | 196.8  | 189.9  | 186.5  |
| 52.5° | 21563.7 | 15065.2 | 1084.2 | 480.0  | 369.5  | 259.0  | 217.5  | 196.8  | 179.6  | 169.2  | 169.2  |
| 55°   | 22969.0 | 14868.4 | 849.4  | 404.0  | 310.8  | 224.4  | 193.4  | 176.1  | 155.4  | 145.0  | 141.6  |
| 57.5° | 23790.8 | 14236.5 | 649.2  | 334.9  | 252.1  | 186.5  | 169.2  | 148.5  | 124.3  | 107.0  | 107.0  |
| 60°   | 24205.2 | 13318.0 | 497.2  | 276.2  | 193.4  | 148.5  | 138.1  | 110.5  | 86.3   | 72.5   | 69.1   |
| 62.5° | 23708.0 | 12099.1 | 376.4  | 217.5  | 145.0  | 110.5  | 93.2   | 79.4   | 55.2   | 41.4   | 41.4   |
| 63°   | 23400.7 | 11746.9 | 362.6  | 207.2  | 134.7  | 103.6  | 86.3   | 72.5   | 48.3   | 38.0   | 34.5   |
| 65°   | 21332.3 | 10210.4 | 297.0  | 165.7  | 107.0  | 72.5   | 58.7   | 51.8   | 34.5   | 17.3   | 13.8   |
| 67.5° | 16940.2 | 7810.6  | 234.8  | 124.3  | 76.0   | 51.8   | 34.5   | 31.1   | 10.4   | 0.0    | 0.0    |
| 70°   | 11453.4 | 5044.8  | 183.0  | 89.8   | 51.8   | 31.1   | 17.3   | 13.8   | 3.5    | 0.0    | 0.0    |
| 72.5° | 5973.6  | 2586.3  | 141.6  | 65.6   | 31.1   | 20.7   | 10.4   | 3.5    | 0.0    | 0.0    | 0.0    |
| 75°   | 2113.2  | 880.5   | 103.6  | 41.4   | 20.7   | 10.4   | 3.5    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 638.8   | 328.0   | 65.6   | 31.1   | 13.8   | 6.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 224.4   | 120.9   | 38.0   | 20.7   | 10.4   | 3.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 110.5   | 58.7    | 24.2   | 17.3   | 10.4   | 3.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 62.2    | 38.0    | 20.7   | 17.3   | 10.4   | 6.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 44.9    | 27.6    | 20.7   | 17.3   | 13.8   | 6.9    | 3.5    | 0.0    | 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)