

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: P457518

Luminaire Tested: **GLAN-SA8D-760-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457518  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA8D-760-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 63663 lumens  
Efficiency: N/A  
Efficacy: 129.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G5

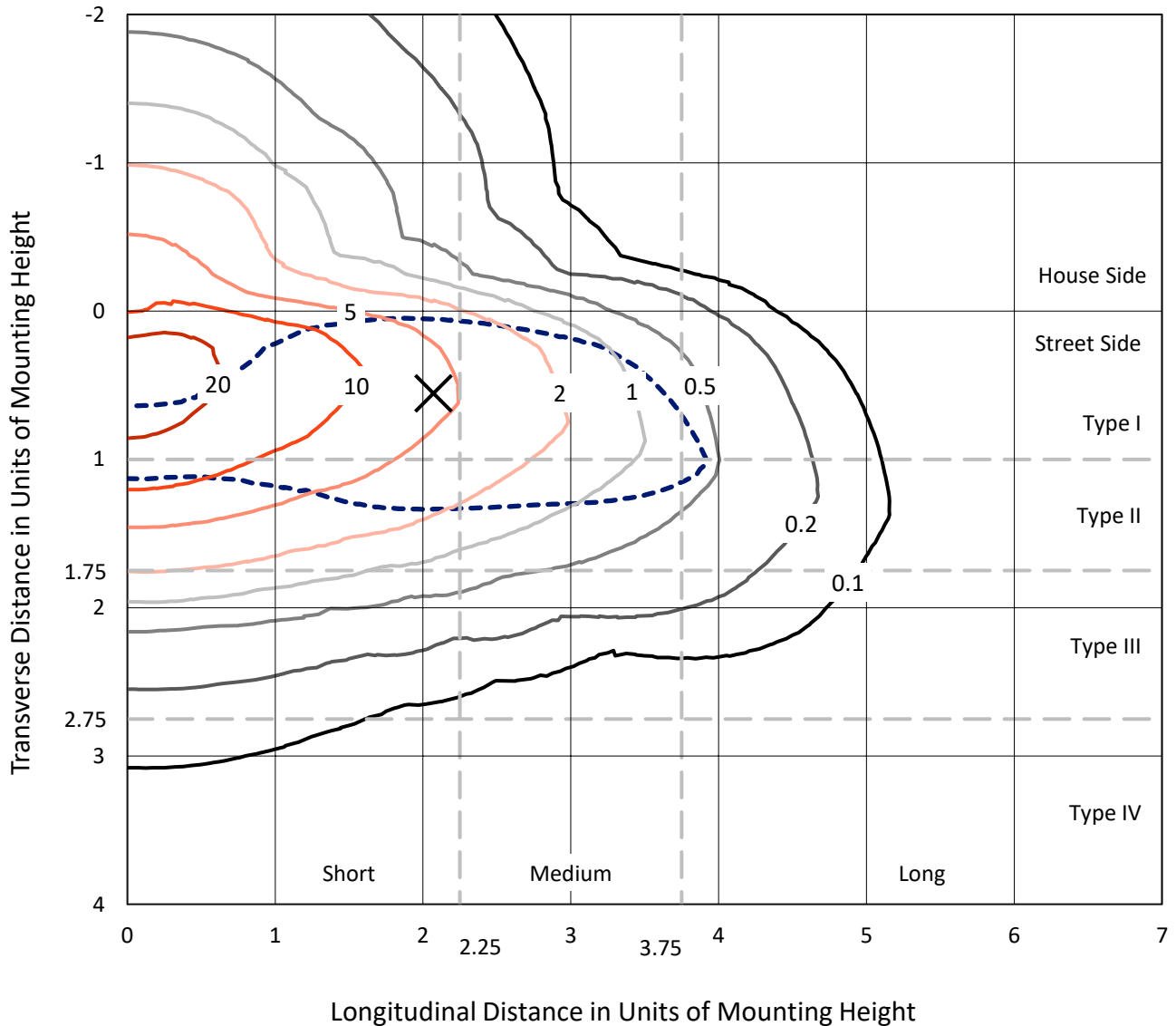
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P457518  
 CATALOG NUMBER: GLAN-SA8D-760-U-T2R

### Iso-Footcandle Lines of Horizontal Illumination

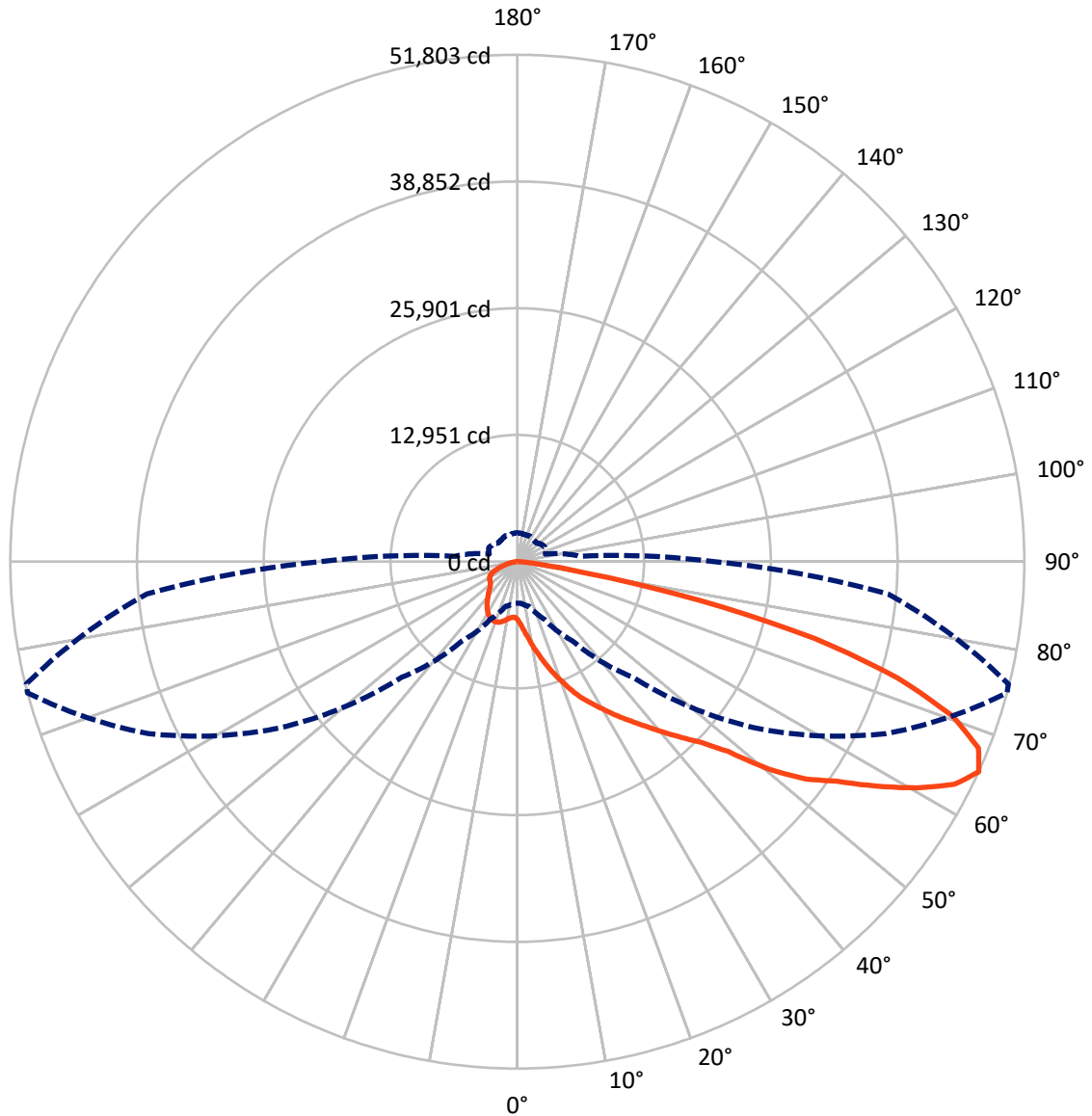
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.6 fc  
 Type II - Short - N/A

REPORT NUMBER: P457518  
CATALOG NUMBER: GLAN-SA8D-760-U-T2R

### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical



REPORT NUMBER: P457518

CATALOG NUMBER: GLAN-SA8D-760-U-T2R

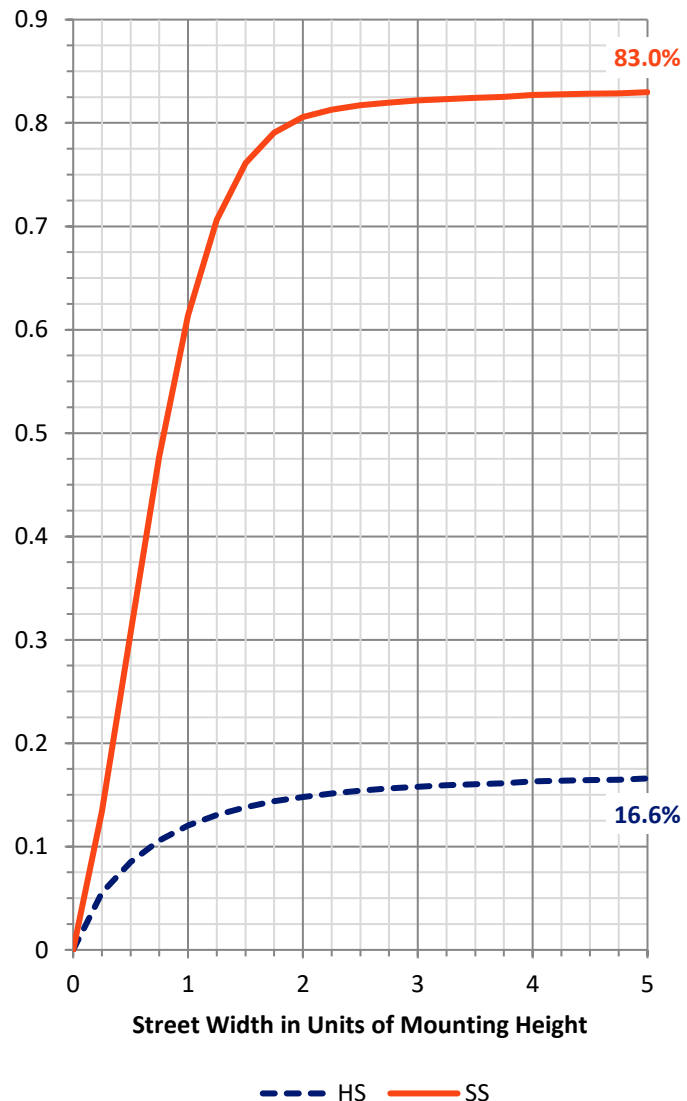
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 10702.6  | 0.0    | 10702.6 |
|                    | % Fixture | 16.8     | 0.0    | 16.8    |
| <b>Street Side</b> | Lumens    | 52960.4  | 0.0    | 52960.4 |
|                    | % Fixture | 83.2     | 0.0    | 83.2    |
| <b>Total</b>       | Lumens    | 63663.0  | 0.0    | 63663.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 718.7   | 1.1       |
| 10°-20°   | 2814.9  | 4.4       |
| 20°-30°   | 5437.5  | 8.5       |
| 30°-40°   | 8832.1  | 13.9      |
| 40°-50°   | 12149.3 | 19.1      |
| 50°-60°   | 14344.2 | 22.5      |
| 60°-70°   | 12567.9 | 19.7      |
| 70°-80°   | 6000.0  | 9.4       |
| 80°-90°   | 798.4   | 1.3       |
| 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°    | 63663.0 | 100.0     |
| 0°-180°   | 63663.0 | 100.0     |



REPORT NUMBER: P457518

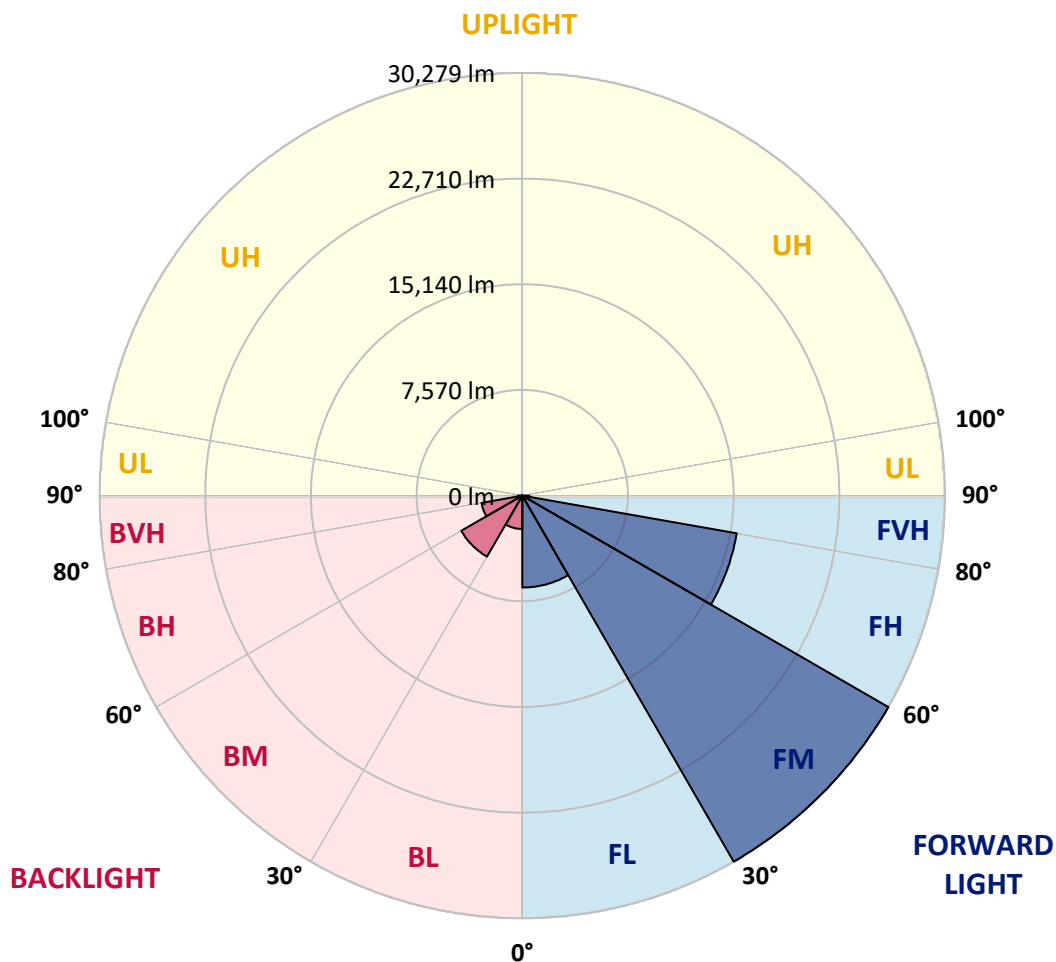
CATALOG NUMBER: GLAN-SA8D-760-U-T2R

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 6581.7  | 10.3      |                         |      |         |
| FM   | (30°-60°)   | 30279.5 | 47.6      |                         |      |         |
| FH   | (60°-80°)   | 15600.3 | 24.5      |                         |      | G5      |
| FVH  | (80°-90°)   | 498.9   | 0.8       |                         |      | G3/500  |
| BL   | (0°-30°)    | 2389.3  | 3.8       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 5046.2  | 7.9       | B4/8500                 |      |         |
| BH   | (60°-80°)   | 2967.6  | 4.7       | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 299.4   | 0.5       |                         |      | G3/500  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**

Type II Short





REPORT NUMBER: P457518  
 CATALOG NUMBER: GLAN-SA8D-760-U-T2R

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 76°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5915.1  | 5915.1  | 5915.1  | 5915.1  | 5915.1  | 5915.1  | 5915.1  | 5915.1  | 5915.1  | 5915.1  | 5915.1  |
| 2.5°  | 7859.2  | 7807.4  | 7752.1  | 7600.2  | 7437.9  | 7254.9  | 6992.5  | 6740.4  | 6405.4  | 6395.1  | 6146.5  |
| 5°    | 10038.1 | 10003.5 | 9758.4  | 9616.8  | 9240.4  | 8739.7  | 8315.0  | 7655.4  | 7044.2  | 6971.7  | 6488.3  |
| 7.5°  | 12040.8 | 11906.2 | 11812.9 | 11557.4 | 11184.5 | 10542.2 | 9720.4  | 8829.5  | 7807.4  | 7710.7  | 6909.6  |
| 10°   | 13549.8 | 13536.0 | 13487.7 | 13266.7 | 12987.0 | 12348.2 | 11436.5 | 10158.9 | 8774.2  | 8584.3  | 7420.6  |
| 12.5° | 14679.0 | 14689.3 | 14682.4 | 14679.0 | 14478.7 | 13936.6 | 12949.0 | 11602.3 | 9751.4  | 9616.8  | 8011.1  |
| 15°   | 15421.4 | 15525.0 | 15566.4 | 15739.1 | 15756.3 | 15393.8 | 14544.3 | 12997.3 | 10853.0 | 10652.7 | 8646.5  |
| 17.5° | 15911.7 | 15963.5 | 16156.9 | 16450.4 | 16688.7 | 16623.0 | 15866.8 | 14288.8 | 11978.7 | 11643.7 | 9306.0  |
| 20°   | 16381.3 | 16471.1 | 16619.6 | 17020.1 | 17441.4 | 17634.8 | 17103.0 | 15611.3 | 13094.0 | 12879.9 | 10034.6 |
| 22.5° | 17358.5 | 17486.3 | 17538.1 | 17741.8 | 18101.0 | 18442.8 | 18201.1 | 16878.6 | 14316.4 | 14026.3 | 10808.1 |
| 25°   | 19012.6 | 19147.2 | 19002.2 | 18953.9 | 19071.3 | 19240.5 | 19188.7 | 18073.3 | 15469.7 | 15055.4 | 11540.1 |
| 27.5° | 21167.3 | 21184.5 | 20901.4 | 20632.1 | 20342.0 | 20255.7 | 20096.8 | 19133.4 | 16471.1 | 16125.8 | 12275.6 |
| 30°   | 23480.8 | 23398.0 | 22928.3 | 22441.5 | 21951.1 | 21467.7 | 21011.9 | 20155.5 | 17586.4 | 17189.3 | 12997.3 |
| 32.5° | 25628.6 | 25583.7 | 25062.3 | 24306.1 | 23477.4 | 23021.6 | 22099.6 | 21188.0 | 18781.2 | 18397.9 | 13739.7 |
| 35°   | 27237.8 | 27303.4 | 26730.2 | 25904.9 | 25000.2 | 24596.2 | 23432.5 | 22272.3 | 20017.4 | 19599.6 | 14547.8 |
| 37.5° | 28380.7 | 28346.2 | 27838.6 | 27123.8 | 26329.6 | 25977.4 | 24989.8 | 23456.7 | 21346.8 | 20946.3 | 15431.7 |
| 40°   | 28788.2 | 28767.5 | 28391.1 | 27869.7 | 27365.5 | 27241.2 | 26619.7 | 24734.3 | 22869.6 | 22400.0 | 16495.3 |
| 42.5° | 28529.2 | 28574.1 | 28325.5 | 28183.9 | 28090.7 | 28180.4 | 28239.1 | 26409.0 | 24530.6 | 24098.9 | 17648.6 |
| 45°   | 27735.0 | 27710.8 | 27676.3 | 27907.7 | 28432.5 | 29023.0 | 29841.4 | 27990.5 | 26336.5 | 25991.2 | 19195.6 |
| 47.5° | 26315.8 | 26488.4 | 26574.8 | 27213.6 | 28360.0 | 29758.5 | 31685.3 | 30110.7 | 28957.4 | 28657.0 | 21554.0 |
| 50°   | 24330.3 | 24468.4 | 24979.5 | 26115.5 | 27824.8 | 30034.7 | 33487.8 | 33577.6 | 33329.0 | 32766.1 | 24116.2 |
| 52.5° | 21229.4 | 21443.5 | 22496.7 | 24578.9 | 26726.7 | 29920.8 | 34579.0 | 36550.7 | 36878.7 | 36457.4 | 26640.4 |
| 55°   | 17759.1 | 18059.5 | 19171.4 | 21902.8 | 25214.3 | 29299.2 | 35331.7 | 38273.7 | 39582.5 | 39192.3 | 29071.3 |
| 57.5° | 14361.3 | 14679.0 | 15821.9 | 18467.0 | 22576.1 | 27924.9 | 35825.5 | 40193.7 | 43263.4 | 42755.8 | 32096.2 |
| 60°   | 10763.2 | 11094.7 | 12075.4 | 14799.8 | 18819.2 | 25238.4 | 35490.6 | 41858.0 | 46940.9 | 46723.4 | 35124.6 |
| 62.5° | 6944.1  | 7310.1  | 8163.0  | 10417.9 | 14464.9 | 21567.8 | 33698.4 | 42776.5 | 50124.7 | 49862.2 | 37334.5 |
| 65°   | 4230.0  | 4271.4  | 4741.1  | 6467.6  | 9899.9  | 16699.0 | 29599.7 | 41557.6 | 51802.8 | 51723.4 | 38007.9 |
| 67.5° | 2734.8  | 2800.4  | 3014.5  | 3874.3  | 5935.8  | 11598.8 | 23667.3 | 37534.8 | 50822.2 | 50794.6 | 36616.3 |
| 70°   | 2310.1  | 2330.8  | 2427.5  | 2614.0  | 3449.6  | 7033.9  | 16619.6 | 31122.5 | 47096.3 | 47096.3 | 33270.3 |
| 72.5° | 2064.9  | 2092.6  | 2127.1  | 2185.8  | 2462.0  | 3984.8  | 9917.2  | 24226.7 | 40663.3 | 40932.6 | 28318.6 |
| 75°   | 1875.0  | 1868.1  | 1888.8  | 1899.2  | 2099.5  | 2603.6  | 5127.8  | 17917.9 | 31457.4 | 30918.7 | 20507.7 |
| 77.5° | 1605.7  | 1616.0  | 1605.7  | 1650.6  | 1854.3  | 1982.1  | 2603.6  | 12023.6 | 19064.4 | 18366.8 | 10293.6 |
| 80°   | 1319.1  | 1336.3  | 1353.6  | 1381.2  | 1585.0  | 1505.5  | 1564.2  | 5480.0  | 7051.2  | 6902.7  | 3180.3  |
| 82.5° | 991.0   | 1015.2  | 1042.8  | 1108.4  | 1246.6  | 994.5   | 987.6   | 2341.2  | 2544.9  | 2330.8  | 1170.6  |
| 85°   | 400.6   | 473.1   | 714.8   | 780.4   | 783.8   | 545.6   | 607.7   | 977.2   | 1039.4  | 1015.2  | 459.3   |
| 87.5° | 93.2    | 110.5   | 231.4   | 348.8   | 321.1   | 203.7   | 224.4   | 317.7   | 362.6   | 334.9   | 155.4   |
| 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: P457518

CATALOG NUMBER: GLAN-SA8D-760-U-T2R

**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 5915.1  | 5915.1 | 5915.1 | 5915.1 | 5915.1 | 5915.1 | 5915.1 | 5915.1 | 5915.1 | 5915.1 | 5915.1 |
| 2.5°  | 6032.5  | 5911.6 | 5704.5 | 5545.6 | 5431.7 | 5331.5 | 5269.4 | 5231.4 | 5217.6 | 5214.1 | 5217.6 |
| 5°    | 6236.2  | 6022.1 | 5694.1 | 5486.9 | 5373.0 | 5307.4 | 5269.4 | 5265.9 | 5269.4 | 5272.8 | 5262.5 |
| 7.5°  | 6515.9  | 6208.6 | 5780.4 | 5587.1 | 5500.7 | 5452.4 | 5435.1 | 5428.2 | 5431.7 | 5428.2 | 5428.2 |
| 10°   | 6888.9  | 6467.6 | 5949.6 | 5749.3 | 5676.8 | 5621.6 | 5594.0 | 5576.7 | 5562.9 | 5549.1 | 5542.2 |
| 12.5° | 7299.8  | 6754.2 | 6132.6 | 5939.3 | 5835.7 | 5749.3 | 5687.2 | 5642.3 | 5611.2 | 5580.1 | 5573.2 |
| 15°   | 7759.0  | 7058.1 | 6336.4 | 6067.0 | 5918.5 | 5790.8 | 5683.7 | 5611.2 | 5556.0 | 5511.1 | 5507.6 |
| 17.5° | 8197.6  | 7344.7 | 6474.5 | 6125.7 | 5908.2 | 5728.6 | 5587.1 | 5486.9 | 5417.9 | 5359.2 | 5352.2 |
| 20°   | 8667.2  | 7617.5 | 6536.6 | 6087.7 | 5804.6 | 5587.1 | 5400.6 | 5279.7 | 5200.3 | 5134.7 | 5124.3 |
| 22.5° | 9140.3  | 7848.8 | 6529.7 | 5966.9 | 5625.0 | 5369.5 | 5172.7 | 5044.9 | 4951.7 | 4886.1 | 4861.9 |
| 25°   | 9592.6  | 8035.3 | 6443.4 | 5773.5 | 5376.4 | 5110.5 | 4910.3 | 4792.9 | 4710.0 | 4630.6 | 4630.6 |
| 27.5° | 10000.1 | 8145.8 | 6281.1 | 5538.7 | 5120.9 | 4841.2 | 4682.4 | 4575.3 | 4499.3 | 4447.5 | 4416.5 |
| 30°   | 10400.6 | 8197.6 | 6060.1 | 5241.7 | 4851.6 | 4613.3 | 4485.5 | 4423.4 | 4354.3 | 4295.6 | 4288.7 |
| 32.5° | 10759.7 | 8187.2 | 5783.9 | 4951.7 | 4596.0 | 4426.8 | 4375.0 | 4326.7 | 4254.2 | 4171.3 | 4150.6 |
| 35°   | 11108.5 | 8118.2 | 5455.8 | 4634.0 | 4381.9 | 4316.3 | 4330.1 | 4261.1 | 4129.9 | 4026.3 | 4009.0 |
| 37.5° | 11488.3 | 7993.8 | 5096.7 | 4375.0 | 4202.4 | 4264.5 | 4299.1 | 4147.1 | 3933.0 | 3770.7 | 3732.8 |
| 40°   | 11926.9 | 7852.3 | 4723.8 | 4116.1 | 4060.8 | 4216.2 | 4216.2 | 3936.5 | 3643.0 | 3542.8 | 3515.2 |
| 42.5° | 12441.4 | 7734.9 | 4413.0 | 3898.5 | 3943.4 | 4098.8 | 4081.5 | 3656.8 | 3535.9 | 3484.1 | 3470.3 |
| 45°   | 13256.3 | 7693.4 | 4091.9 | 3708.6 | 3846.7 | 3960.7 | 3819.1 | 3560.1 | 3491.0 | 3449.6 | 3435.8 |
| 47.5° | 14544.3 | 7741.8 | 3808.7 | 3567.0 | 3736.2 | 3822.5 | 3525.6 | 3494.5 | 3446.2 | 3387.5 | 3380.5 |
| 50°   | 15739.1 | 7696.9 | 3608.5 | 3487.6 | 3639.5 | 3656.8 | 3404.7 | 3415.1 | 3387.5 | 3321.8 | 3308.0 |
| 52.5° | 16716.3 | 7555.3 | 3480.7 | 3446.2 | 3556.7 | 3366.7 | 3290.8 | 3328.8 | 3318.4 | 3235.5 | 3221.7 |
| 55°   | 17790.2 | 7469.0 | 3418.5 | 3446.2 | 3501.4 | 3114.7 | 3183.7 | 3239.0 | 3225.2 | 3166.5 | 3163.0 |
| 57.5° | 19092.0 | 7486.2 | 3373.6 | 3456.5 | 3446.2 | 2986.9 | 3076.7 | 3142.3 | 3138.8 | 3121.6 | 3121.6 |
| 60°   | 20424.9 | 7493.1 | 3304.6 | 3453.1 | 3380.5 | 2886.8 | 2966.2 | 3059.4 | 3066.3 | 3076.7 | 3076.7 |
| 62.5° | 20866.9 | 7192.7 | 3169.9 | 3390.9 | 3235.5 | 2790.1 | 2862.6 | 2990.4 | 2983.4 | 3011.1 | 3014.5 |
| 65°   | 20041.6 | 6360.5 | 2969.6 | 3249.3 | 3049.1 | 2721.0 | 2783.2 | 2900.6 | 2862.6 | 2935.1 | 2948.9 |
| 67.5° | 18242.5 | 5262.5 | 2658.9 | 2993.8 | 2841.9 | 2648.5 | 2731.4 | 2776.3 | 2707.2 | 2848.8 | 2852.2 |
| 70°   | 15766.7 | 4109.1 | 2265.2 | 2631.2 | 2607.1 | 2572.5 | 2689.9 | 2620.9 | 2524.2 | 2696.8 | 2662.3 |
| 72.5° | 13183.8 | 3138.8 | 1809.4 | 2151.3 | 2292.8 | 2458.6 | 2617.4 | 2420.6 | 2285.9 | 2337.7 | 2275.6 |
| 75°   | 9903.4  | 2320.5 | 1453.7 | 1685.1 | 1909.5 | 2296.3 | 2551.8 | 2178.9 | 1971.7 | 1923.4 | 1909.5 |
| 77.5° | 5048.4  | 1515.9 | 1087.7 | 1260.4 | 1433.0 | 2075.3 | 2462.0 | 1895.7 | 1633.3 | 1557.3 | 1522.8 |
| 80°   | 1802.5  | 942.7  | 766.6  | 870.2  | 966.9  | 1785.2 | 2151.3 | 1567.7 | 1267.3 | 1253.5 | 1267.3 |
| 82.5° | 835.6   | 607.7  | 514.5  | 569.8  | 573.2  | 1191.3 | 1640.2 | 1170.6 | 963.4  | 1464.1 | 1236.2 |
| 85°   | 359.1   | 303.9  | 290.1  | 283.2  | 262.4  | 531.8  | 922.0  | 628.5  | 980.7  | 438.5  | 404.0  |
| 87.5° | 107.0   | 120.9  | 107.0  | 79.4   | 58.7   | 58.7   | 93.2   | 34.5   | 24.2   | 17.3   | 17.3   |
| 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)