

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: P457397

Luminaire Tested: **GLAN-SA8D-727-U-SLR**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457397  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA8D-727-U-SLR  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 45032 lumens  
Efficiency: N/A  
Efficacy: 91.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

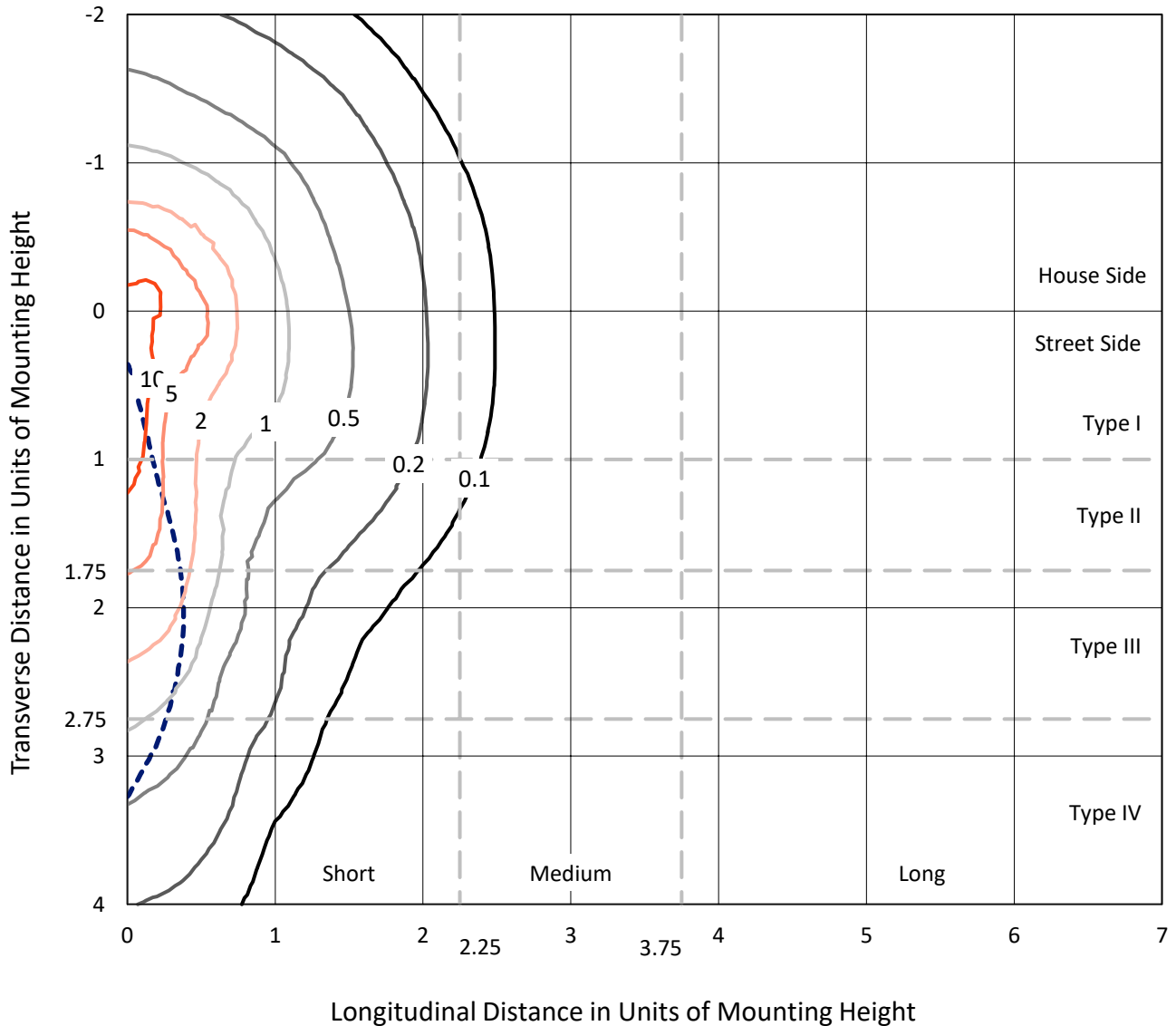
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P457397  
 CATALOG NUMBER: GLAN-SA8D-727-U-SLR

### Iso-Footcandle Lines of Horizontal Illumination

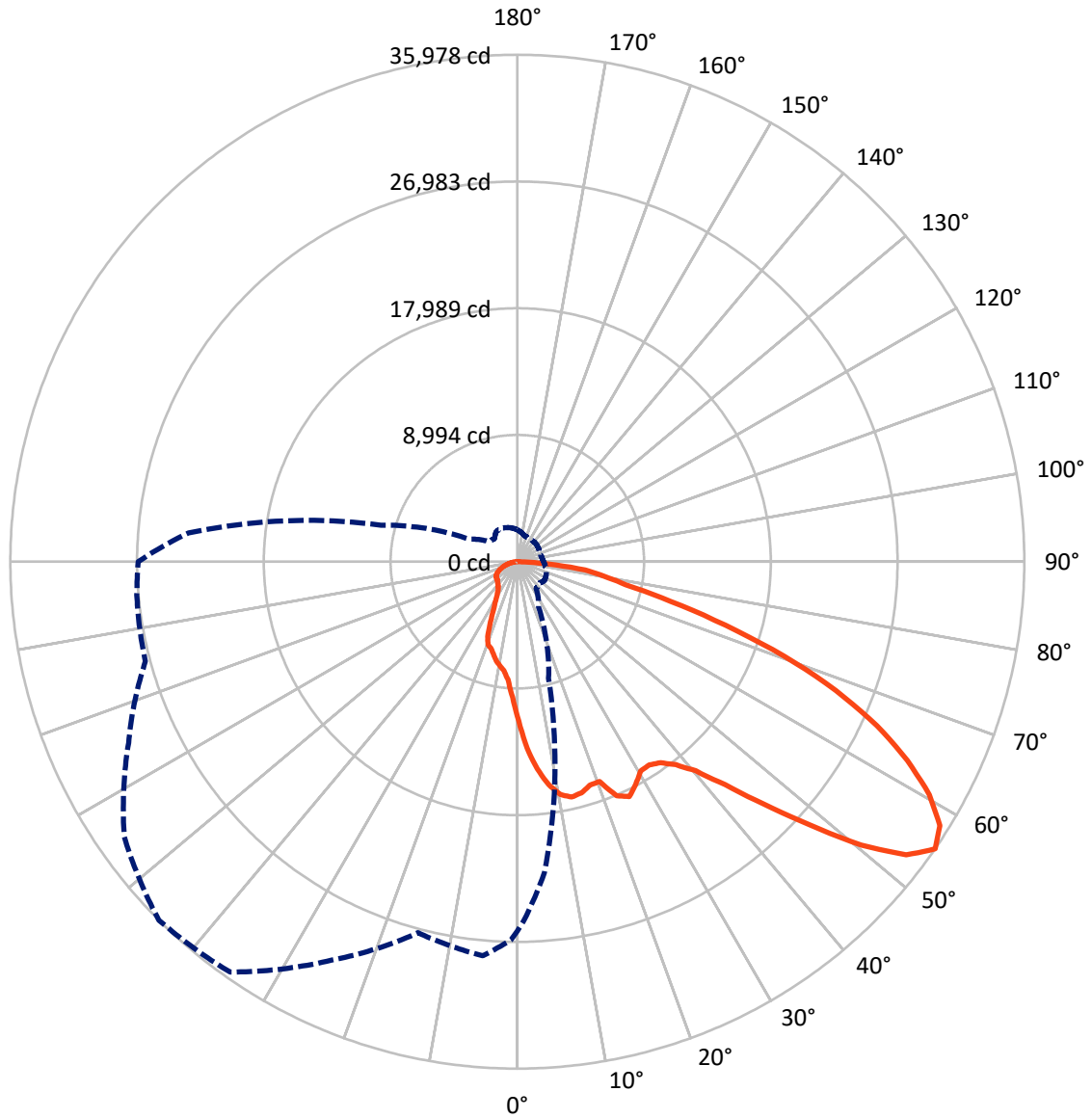
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.4 fc  
 Type IV - Short - N/A

REPORT NUMBER: P457397  
CATALOG NUMBER: GLAN-SA8D-727-U-SLR

### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P457397

CATALOG NUMBER: GLAN-SA8D-727-U-SLR

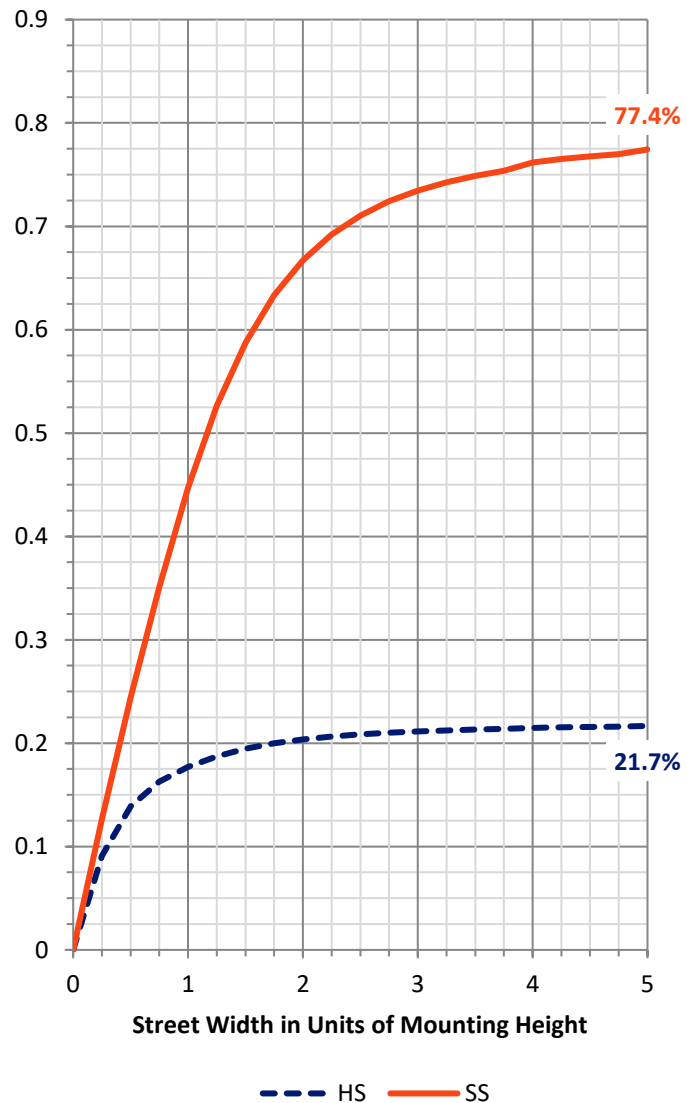
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9850.5	0.0	9850.5
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	35181.5	0.0	35181.5
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	45032.0	0.0	45032.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	957.8	2.1
10°-20°	2541.1	5.6
20°-30°	4389.9	9.7
30°-40°	5101.7	11.3
40°-50°	7117.9	15.8
50°-60°	9658.3	21.4
60°-70°	9188.7	20.4
70°-80°	4964.0	11.0
80°-90°	1112.5	2.5
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°	45032.0	100.0
0°-180°	45032.0	100.0



REPORT NUMBER: P457397

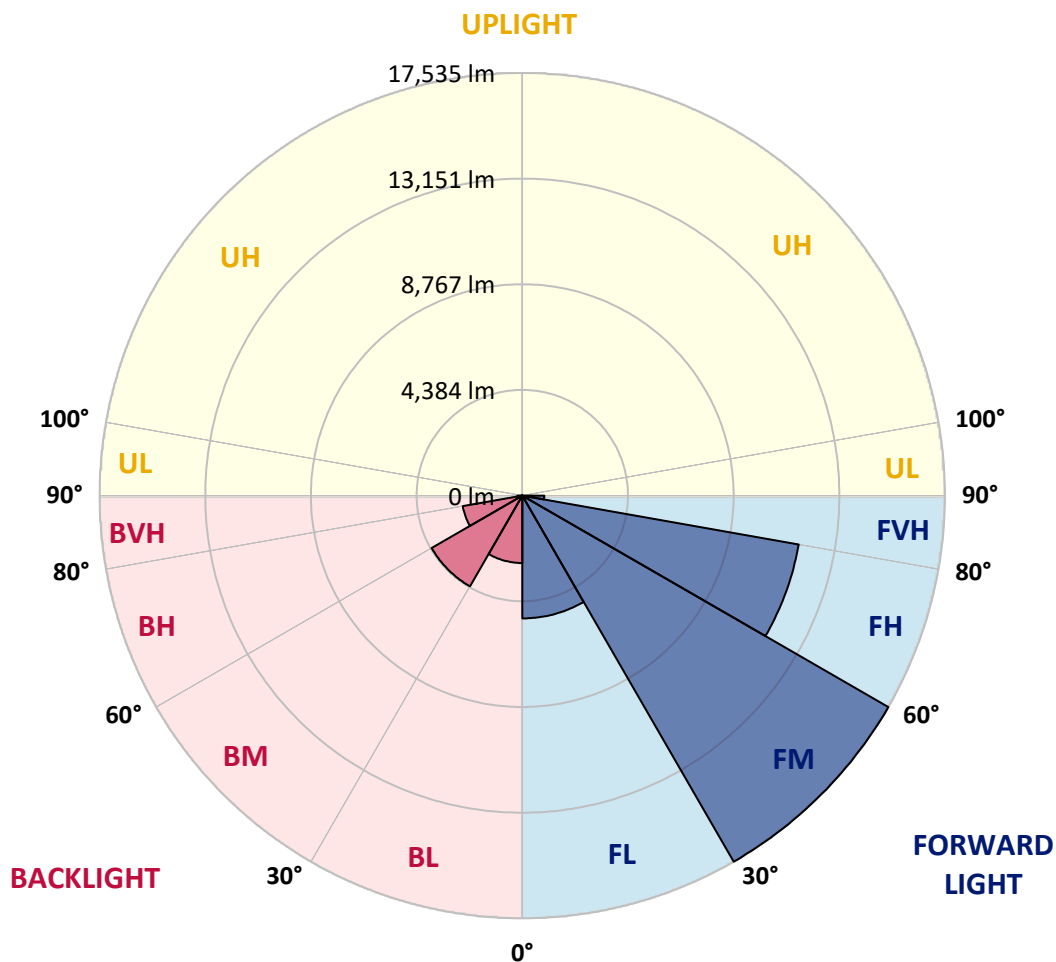
CATALOG NUMBER: GLAN-SA8D-727-U-SLR

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5093.2	11.3			
FM	(30°-60°)	17534.5	38.9			
FH	(60°-80°)	11644.5	25.9			G4/12000
FVH	(80°-90°)	909.2	2.0			G5
BL	(0°-30°)	2795.6	6.2	B4/5000		
BM	(30°-60°)	4343.5	9.6	B3/5000		
BH	(60°-80°)	2508.2	5.6	B4/5000		G4/5000
BVH	(80°-90°)	203.3	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

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

Type IV Short





REPORT NUMBER: P457397

CATALOG NUMBER: GLAN-SA8D-727-U-SLR

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11301.3	11301.3	11301.3	11301.3	11301.3	11301.3	11301.3	11301.3	11301.3	11301.3	11301.3
2.5°	12555.0	12507.5	12373.8	12023.2	11669.7	11310.2	11033.9	10689.3	10329.8	10136.7	9890.1
5°	12727.3	12673.8	12358.9	11568.7	10852.7	10101.0	9500.9	8975.1	8761.2	8446.2	8193.7
7.5°	12323.3	12299.5	11827.1	10692.2	9711.8	8728.5	8048.1	7626.3	7243.0	7100.4	7130.1
10°	11954.9	11859.8	11268.6	9786.1	8642.3	7843.2	7355.9	6943.0	6672.6	6601.3	6616.2
12.5°	11648.9	11521.1	10823.0	9177.1	8175.9	7537.2	6916.2	6485.5	6238.9	6307.2	6538.9
15°	11586.5	11414.2	10635.8	8969.1	7920.4	7097.5	6417.1	5921.0	5736.8	5885.3	6256.7
17.5°	11990.5	11773.6	10956.6	9037.5	7676.8	6648.9	5814.0	5246.6	5092.1	5329.8	5814.0
20°	13288.8	12967.9	11957.8	9432.6	7653.0	6426.0	5463.5	4893.1	4958.4	5410.0	5915.0
22.5°	15689.3	15208.0	13710.7	10008.9	7777.8	6369.6	5392.2	5095.1	5454.6	5837.8	6170.5
25°	16164.6	15787.3	14025.6	10139.7	7751.1	6331.0	5594.2	5742.7	6143.8	6333.9	6218.1
27.5°	16432.0	16001.2	14004.8	9492.0	6931.1	5742.7	5347.6	5594.2	5695.2	5511.0	5196.1
30°	17055.9	16607.3	14358.3	8811.7	5707.1	4260.3	3734.4	3633.4	3701.7	3737.4	3624.5
32.5°	17914.5	17471.8	15023.8	8366.0	4934.7	3523.5	3006.5	2863.9	2831.3	2792.6	2748.1
35°	19025.6	18345.3	15677.4	8080.8	4616.8	3259.1	2783.7	2673.8	2629.2	2575.8	2528.2
37.5°	20154.5	19441.5	16503.3	7780.8	4405.8	3074.9	2635.2	2584.7	2507.4	2451.0	2382.7
40°	21354.8	20555.6	17254.9	7519.3	4200.8	2956.0	2528.2	2522.3	2421.3	2355.9	2275.7
42.5°	22394.6	21571.6	17926.4	7358.9	4043.4	2831.3	2462.9	2480.7	2376.7	2278.7	2174.7
45°	23220.5	22412.4	18547.3	7358.9	3915.6	2706.5	2451.0	2439.1	2335.1	2213.3	2094.5
47.5°	23945.4	23110.6	19153.3	7546.1	3835.4	2602.5	2385.6	2406.4	2299.5	2145.0	2029.1
50°	24506.9	23770.1	19970.3	7837.2	3755.2	2519.3	2302.4	2415.3	2269.8	2109.3	1975.6
52.5°	25222.9	24563.3	20953.7	8235.3	3686.9	2427.2	2228.2	2415.3	2266.8	2112.3	1966.7
55°	26215.2	25520.0	22139.1	8565.1	3577.0	2341.1	2162.8	2347.0	2257.9	2097.4	1943.0
57.5°	26910.3	26390.4	22976.9	8784.9	3419.5	2231.1	2103.4	2281.6	2219.3	2041.0	1871.7
58°	26943.0	26435.0	23098.7	8835.4	3380.9	2210.3	2088.5	2251.9	2201.4	2017.2	1847.9
60°	26568.7	26132.0	23122.5	8764.1	3161.0	2106.4	2011.3	2130.1	2106.4	1877.6	1720.1
62.5°	25208.0	24741.6	22162.9	8184.8	2869.9	1978.6	1892.5	1966.7	1913.3	1681.5	1536.0
65°	23274.0	22415.4	20190.2	7275.7	2661.9	1842.0	1732.0	1738.0	1681.5	1515.2	1387.4
67.5°	20698.2	19738.6	17094.5	6131.9	2504.5	1690.4	1541.9	1527.0	1458.7	1351.8	1247.8
70°	17528.3	16871.7	13891.9	4988.1	2329.2	1524.1	1328.0	1319.1	1277.5	1197.3	1105.2
72.5°	14206.8	13372.0	11218.1	3992.9	2115.3	1363.6	1128.9	1146.8	1093.3	1036.8	953.7
75°	10484.3	9937.6	8672.0	3202.6	1827.1	1188.4	941.8	947.7	923.9	864.5	799.2
77.5°	6904.4	6741.0	6203.2	2103.4	1405.2	944.7	769.5	775.4	757.6	704.1	635.8
80°	4646.5	4536.6	4203.8	1354.7	938.8	683.3	594.2	600.1	597.1	540.7	448.6
82.5°	2863.9	2816.4	2709.5	915.0	650.6	490.2	392.2	410.0	442.7	380.3	306.0
85°	1351.8	1354.7	1637.0	499.1	383.2	314.9	213.9	228.8	228.8	228.8	172.3
87.5°	175.3	184.2	225.8	210.9	139.6	118.8	77.2	65.4	56.4	74.3	53.5
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: P457397

CATALOG NUMBER: GLAN-SA8D-727-U-SLR

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11301.3	11301.3	11301.3	11301.3	11301.3	11301.3	11301.3	11301.3	11301.3	11301.3	11301.3
2.5°	9803.9	9744.5	9616.8	9587.1	9569.2	9619.7	9486.1	9521.7	9462.3	9628.7	9601.9
5°	8208.6	8214.5	8318.5	8386.8	8410.6	8386.8	8297.7	8143.2	8024.4	7976.8	7988.7
7.5°	7073.7	7177.7	7355.9	7555.0	7736.2	7789.7	7739.2	7445.1	7124.2	6922.2	6856.8
10°	6696.4	6836.0	7041.0	7198.5	7358.9	7486.6	7513.4	7284.6	6904.4	6426.0	6238.9
12.5°	6717.2	6907.3	7103.4	7153.9	7139.1	7189.6	7165.8	7127.2	6877.6	6268.6	5956.6
15°	6521.1	6746.9	6883.6	6856.8	6809.3	6764.7	6702.3	6604.3	6515.2	6087.4	5742.7
17.5°	6069.5	6301.3	6414.2	6423.1	6423.1	6411.2	6259.7	6224.0	6212.1	6004.2	5793.2
20°	6152.7	6280.5	6230.0	6146.8	6170.5	6250.8	6161.6	6143.8	6212.1	6304.2	6265.6
22.5°	6200.3	6155.7	5775.4	5407.0	5323.8	5573.4	5623.9	5822.9	6099.2	6432.0	6648.9
25°	5906.1	5546.7	4866.3	4450.4	4215.7	4447.4	4750.5	5118.8	5531.8	5959.6	6212.1
27.5°	4937.6	4664.3	4177.1	3802.7	3597.8	3633.4	3891.9	4227.6	4610.8	4899.0	5083.2
30°	3719.6	3597.8	3345.2	3217.5	3092.7	3063.0	3172.9	3300.7	3470.0	3505.7	3553.2
32.5°	2739.2	2721.3	2736.2	2694.6	2670.8	2667.9	2635.2	2664.9	2682.7	2703.5	2661.9
35°	2477.7	2454.0	2412.4	2400.5	2385.6	2391.6	2376.7	2361.9	2373.7	2391.6	2403.5
37.5°	2344.0	2308.4	2249.0	2228.2	2228.2	2237.1	2213.3	2207.4	2228.2	2284.6	2314.3
40°	2240.1	2198.5	2130.1	2103.4	2121.2	2145.0	2112.3	2100.4	2150.9	2210.3	2257.9
42.5°	2142.0	2109.3	2044.0	2014.3	2029.1	2073.7	2026.1	2017.2	2082.6	2148.0	2204.4
45°	2058.8	2026.1	1966.7	1951.9	1957.8	1999.4	1966.7	1966.7	2029.1	2100.4	2150.9
47.5°	1993.5	1951.9	1913.3	1901.4	1907.3	1931.1	1925.1	1925.1	1984.6	2058.8	2109.3
50°	1928.1	1892.5	1842.0	1847.9	1862.7	1895.4	1892.5	1901.4	1960.8	2052.9	2106.4
52.5°	1898.4	1844.9	1788.5	1794.4	1839.0	1877.6	1865.7	1874.6	1943.0	2115.3	2192.5
55°	1865.7	1794.4	1729.1	1738.0	1788.5	1844.9	1830.1	1842.0	1922.2	2156.9	2263.8
57.5°	1803.3	1720.1	1648.8	1654.8	1729.1	1788.5	1764.7	1779.6	1874.6	2112.3	2225.2
58°	1776.6	1705.3	1637.0	1639.9	1711.2	1776.6	1749.9	1761.7	1859.8	2100.4	2207.4
60°	1663.7	1622.1	1562.7	1565.7	1634.0	1690.4	1675.6	1687.5	1782.5	2014.3	2094.5
62.5°	1509.2	1485.4	1470.6	1470.6	1512.2	1565.7	1580.5	1595.4	1681.5	1821.2	1892.5
65°	1342.8	1342.8	1345.8	1345.8	1372.6	1440.9	1449.8	1488.4	1568.6	1637.0	1690.4
67.5°	1229.9	1224.0	1229.9	1215.1	1227.0	1268.6	1313.1	1348.8	1432.0	1479.5	1497.3
70°	1084.4	1081.4	1084.4	1063.6	1078.4	1114.1	1143.8	1203.2	1289.4	1325.0	1333.9
72.5°	941.8	941.8	947.7	932.9	932.9	971.5	992.3	1057.6	1137.9	1158.6	1161.6
75°	793.2	802.1	802.1	781.3	787.3	811.1	837.8	891.3	965.5	980.4	980.4
77.5°	629.8	662.5	662.5	641.7	650.6	653.6	689.2	716.0	772.4	778.4	754.6
80°	457.5	490.2	516.9	499.1	514.0	496.1	516.9	534.8	591.2	564.5	525.8
82.5°	326.8	350.6	371.4	374.3	359.5	326.8	353.5	356.5	383.2	347.6	326.8
85°	181.2	202.0	228.8	216.9	193.1	172.3	181.2	187.2	184.2	175.3	163.4
87.5°	47.5	50.5	56.4	41.6	38.6	32.7	44.6	44.6	50.5	53.5	50.5
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: P457397

CATALOG NUMBER: GLAN-SA8D-727-U-SLR

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	11301.3	11301.3	11301.3	11301.3	11301.3	11301.3	11301.3	11301.3	11301.3	11301.3	11301.3
2.5°	9622.7	9753.4	10035.7	10249.6	10511.0	10828.9	11203.2	11580.5	11987.5	12115.3	12293.6
5°	7962.0	8288.8	8425.4	8814.6	9200.9	9780.2	10398.1	11114.1	11898.4	12275.7	12638.2
7.5°	6803.3	6978.6	7121.2	7406.4	7869.9	8574.0	9349.4	10243.6	11354.7	11904.4	12436.2
10°	6179.5	6197.3	6372.6	6726.1	7130.1	7751.1	8484.9	9486.1	10724.9	11393.4	12017.3
12.5°	5766.5	5689.3	5879.4	6247.8	6705.3	7278.7	7953.1	8906.7	10270.4	10956.6	11711.3
15°	5404.1	5282.2	5424.8	5802.2	6253.7	6928.1	7653.0	8663.1	10092.1	10891.3	11729.1
17.5°	5413.0	5077.3	5127.8	5445.6	5894.2	6580.5	7459.9	8654.2	10362.5	11283.4	12275.7
20°	6081.4	5543.7	5314.9	5374.3	5808.1	6556.8	7549.0	9070.1	11250.8	12593.6	13654.2
22.5°	6738.0	6414.2	6045.8	5924.0	6161.6	6945.9	8116.5	10053.5	13181.8	15205.0	17121.3
25°	6509.2	6785.5	6693.4	6521.1	6574.6	7225.2	8502.7	10861.6	14682.1	16960.8	18761.2
27.5°	5208.0	5710.1	5811.1	5808.1	5828.9	6363.7	7647.1	10317.9	14869.3	17296.5	19016.7
30°	3660.1	3704.7	3758.2	3862.2	3957.2	4435.5	5983.4	9058.2	14786.1	17448.0	19171.2
32.5°	2641.1	2700.5	2774.8	2917.4	3143.2	3752.2	5234.7	8657.2	15225.8	18074.9	19622.7
35°	2415.3	2483.7	2555.0	2718.4	2932.3	3496.7	4937.6	8490.8	15947.7	19091.0	20433.8
37.5°	2344.0	2421.3	2483.7	2602.5	2774.8	3312.5	4667.3	8377.9	16687.5	20166.4	21521.1
40°	2293.5	2382.7	2433.2	2528.2	2647.1	3143.2	4426.6	8288.8	17403.5	21149.8	22394.6
42.5°	2249.0	2341.1	2406.4	2474.8	2572.8	2991.7	4212.7	8199.7	18024.4	22103.4	23265.1
45°	2195.5	2311.4	2394.5	2448.0	2534.2	2863.9	4049.3	8128.4	18731.5	22950.1	24144.4
47.5°	2150.9	2278.7	2382.7	2445.0	2477.7	2774.8	3918.6	8226.4	19581.1	23835.5	24961.4
50°	2153.9	2275.7	2406.4	2504.5	2418.3	2700.5	3838.4	8615.6	20686.3	24887.2	25606.1
52.5°	2249.0	2397.5	2501.5	2525.3	2335.1	2611.4	3796.8	9295.9	21993.5	25817.1	26256.7
55°	2355.9	2510.4	2623.3	2608.4	2290.6	2498.5	3787.9	10020.8	23425.5	26901.4	27103.4
57.5°	2317.3	2543.1	2715.4	2638.2	2293.5	2388.6	3749.3	10606.1	24622.8	27712.5	27941.2
58°	2305.4	2531.2	2727.3	2632.2	2284.6	2355.9	3740.4	10656.6	24789.1	27768.9	28060.1
60°	2189.5	2427.2	2718.4	2587.6	2234.1	2266.8	3642.3	10820.0	24744.6	27477.8	28131.4
62.5°	1978.6	2174.7	2513.4	2370.8	2079.6	2148.0	3422.5	10618.0	23538.4	26075.5	27088.6
65°	1740.9	1886.5	2112.3	2085.6	1859.8	2026.1	3122.4	9818.8	21123.0	23799.8	24866.4
67.5°	1562.7	1681.5	1824.1	1785.5	1672.6	1862.7	2798.6	8467.0	18413.6	21066.6	22409.4
70°	1381.5	1473.6	1544.9	1518.1	1482.5	1702.3	2510.4	6871.7	15817.0	18470.0	19771.3
72.5°	1197.3	1283.4	1342.8	1304.2	1283.4	1533.0	2275.7	5332.8	12492.6	15237.7	16910.3
75°	1001.2	1087.3	1128.9	1084.4	1072.5	1351.8	1928.1	3984.0	9373.2	11746.9	13190.8
77.5°	775.4	867.5	921.0	906.1	912.1	1111.1	1556.7	2727.3	6702.3	8006.6	9527.7
80°	543.7	644.7	680.3	665.5	707.1	846.7	1099.2	1732.0	4622.7	5196.1	6268.6
82.5°	335.7	430.8	436.7	451.6	481.3	626.9	828.9	1054.7	2902.6	3000.6	3779.0
85°	169.3	205.0	219.8	243.6	270.4	383.2	472.4	653.6	1868.7	1414.1	2112.3
87.5°	56.4	59.4	71.3	89.1	109.9	157.5	202.0	267.4	463.5	255.5	653.6
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: P457397

CATALOG NUMBER: GLAN-SA8D-727-U-SLR

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	11301.3	11301.3	11301.3	11301.3	11301.3	11301.3	11301.3	11301.3	11301.3	11301.3
2.5°	12653.0	12905.6	13089.7	13259.1	13095.7	13080.8	12920.4	12661.9	12555.0	12555.0
5°	13398.7	13989.9	14468.2	14774.2	14643.5	14328.6	13808.7	13146.2	12789.7	12727.3
7.5°	13603.7	14771.3	15659.6	15974.5	15754.6	15059.5	14064.2	12947.1	12436.2	12323.3
10°	13478.9	14997.1	16301.3	16800.4	16494.4	15442.7	14085.0	12715.4	12085.6	11954.9
12.5°	13348.2	15026.8	16420.1	17142.0	16943.0	15751.7	14236.5	12563.9	11836.0	11648.9
15°	13443.3	15038.7	16274.5	17020.2	17148.0	16123.0	14486.1	12673.8	11785.5	11586.5
17.5°	14043.4	15264.4	16066.6	16669.7	17118.3	16628.1	15196.1	13199.7	12237.1	11990.5
20°	15297.1	15805.1	16185.4	16651.8	17373.8	17659.0	16648.9	14643.5	13505.7	13288.8
22.5°	18927.6	18835.5	18057.1	18048.2	19093.9	20237.7	20169.4	17578.8	15867.5	15689.3
25°	20288.2	19860.4	18734.4	18461.1	18921.6	20686.3	20430.8	18178.9	16598.4	16164.6
27.5°	19756.4	18695.8	17956.1	17893.7	17742.2	19408.8	20023.8	18422.5	16853.9	16432.0
30°	19723.8	18164.0	17106.4	17231.2	17376.7	18969.1	20249.6	19186.0	17507.5	17055.9
32.5°	19804.0	18238.3	17168.8	17192.6	17626.3	19034.5	20499.2	20017.9	18366.1	17914.5
35°	20127.8	18660.2	17566.9	17510.4	18187.8	19462.3	20924.0	21325.1	19539.6	19025.6
37.5°	20650.7	19500.9	18294.8	18279.9	19263.3	20234.7	21452.8	22644.1	20707.1	20154.5
40°	21420.1	20484.3	19590.1	19509.8	20724.9	21491.4	22139.1	24049.4	22064.8	21354.8
42.5°	22350.0	21663.7	21298.3	21616.2	22783.8	22902.6	23208.6	25347.7	23220.5	22394.6
45°	23211.6	23178.9	23686.9	24530.7	25211.0	24498.0	24325.7	26218.1	24117.7	23220.5
47.5°	24236.5	25121.9	26654.8	27890.7	28603.7	26354.8	25279.3	26785.6	24771.3	23945.4
50°	25276.3	27448.1	29896.1	31619.2	31770.7	28372.0	25935.9	27320.3	25365.5	24506.9
52.5°	26369.6	29304.9	32563.9	34566.3	34272.2	30127.8	26571.7	27682.8	25977.5	25222.9
55°	27320.3	30442.7	34055.3	35977.5	35546.7	31197.3	27257.9	28074.9	26850.9	26215.2
57.5°	27852.1	30537.8	33684.0	35362.5	34896.1	30989.4	27572.8	28366.1	27409.4	26910.3
58°	27929.4	30410.0	33354.2	35006.0	34530.7	30814.1	27569.9	28354.2	27445.1	26943.0
60°	27861.0	29581.2	32127.2	33597.8	33098.7	29714.9	27457.0	28131.4	26993.5	26568.7
62.5°	27228.2	28143.3	30009.0	31078.5	30935.9	27997.7	26993.5	27290.6	25618.0	25208.0
65°	26396.4	26182.5	27296.6	28054.1	28161.1	26711.3	26533.0	25472.4	23853.3	23274.0
67.5°	25386.3	23960.2	23957.3	24388.1	24566.3	24732.7	25573.4	23496.8	21310.2	20698.2
70°	23672.1	20534.8	19590.1	20098.1	19949.5	21354.8	23859.2	20722.0	18244.2	17528.3
72.5°	20528.9	16295.3	14783.2	15436.8	15062.4	16746.9	20876.5	17052.9	15086.2	14206.8
75°	16640.0	12189.6	10629.9	11230.0	10998.2	12703.5	17370.8	12385.6	10820.0	10484.3
77.5°	12920.4	8832.5	7926.3	7843.2	8015.5	9453.4	12742.2	8363.1	7133.1	6904.4
80°	8300.7	6322.1	6375.5	6268.6	6357.7	5959.6	7736.2	5335.7	4830.7	4646.5
82.5°	5463.5	4405.8	5252.5	4848.5	4604.9	4007.7	5074.3	3493.8	2965.0	2863.9
85°	3722.5	3244.2	2953.1	2257.9	2658.9	3086.8	3805.7	1880.6	1491.4	1351.8
87.5°	1681.5	1128.9	828.9	511.0	808.1	932.9	1847.9	219.8	169.3	175.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)