

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: P530450

Luminaire Tested: **GLAN-SA5C-830-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530450  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA5C-830-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23467 lumens  
Efficiency: N/A  
Efficacy: 87.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

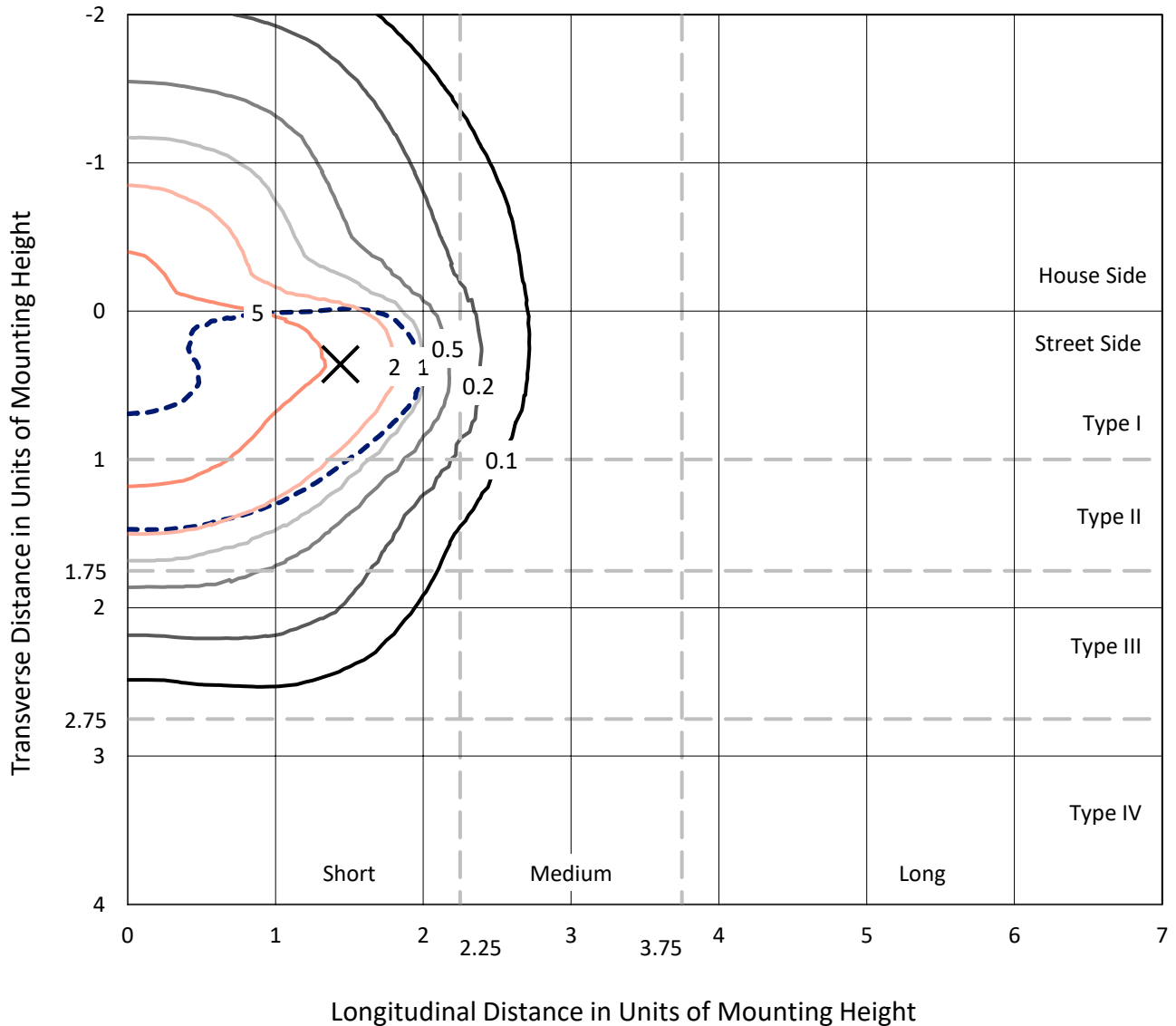
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P530450  
 CATALOG NUMBER: GLAN-SA5C-830-U-T2-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

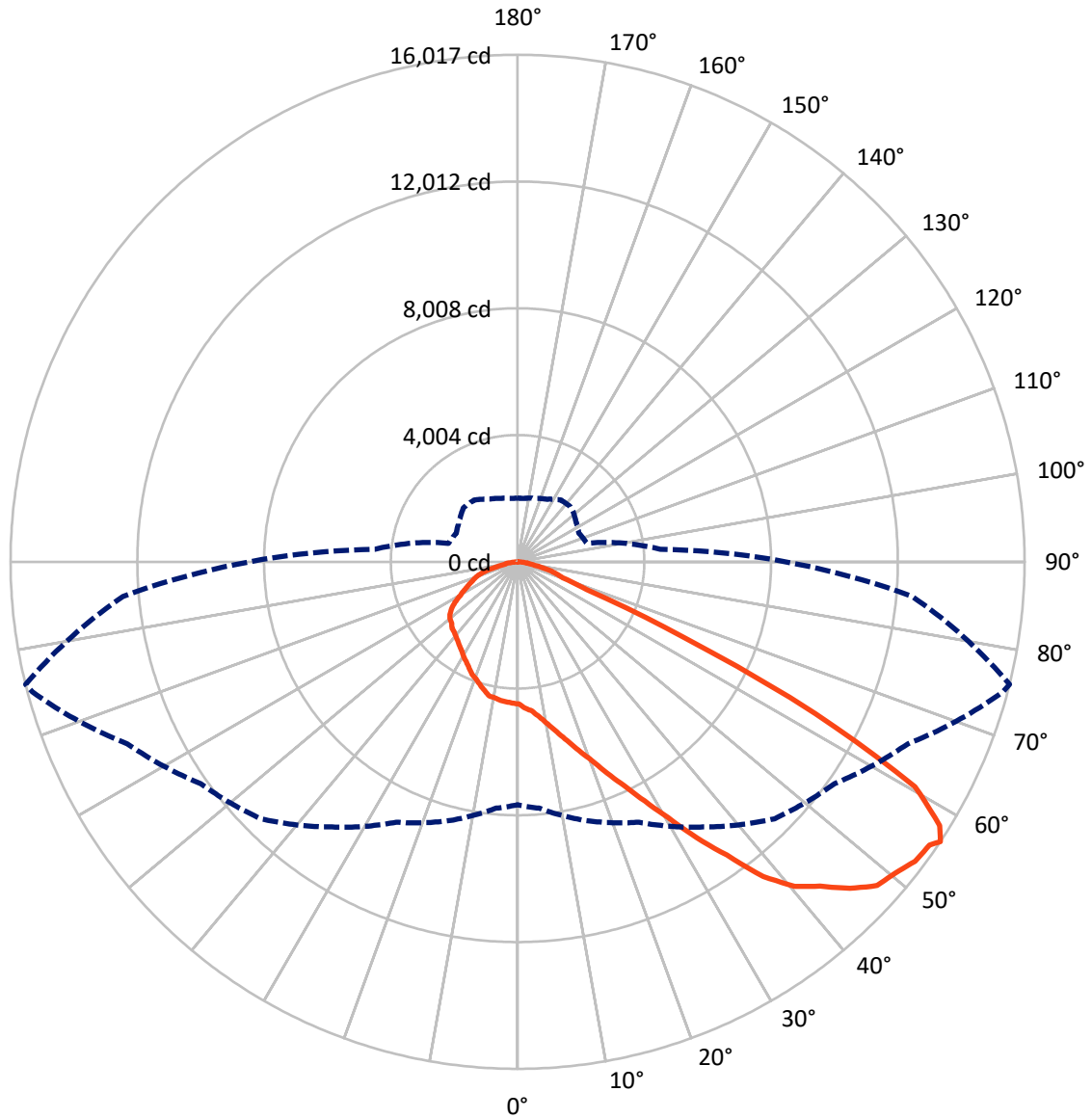
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc  
 Type II - Short - N/A

REPORT NUMBER: P530450  
CATALOG NUMBER: GLAN-SA5C-830-U-T2-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P530450  
 CATALOG NUMBER: GLAN-SA5C-830-U-T2-GRSWH

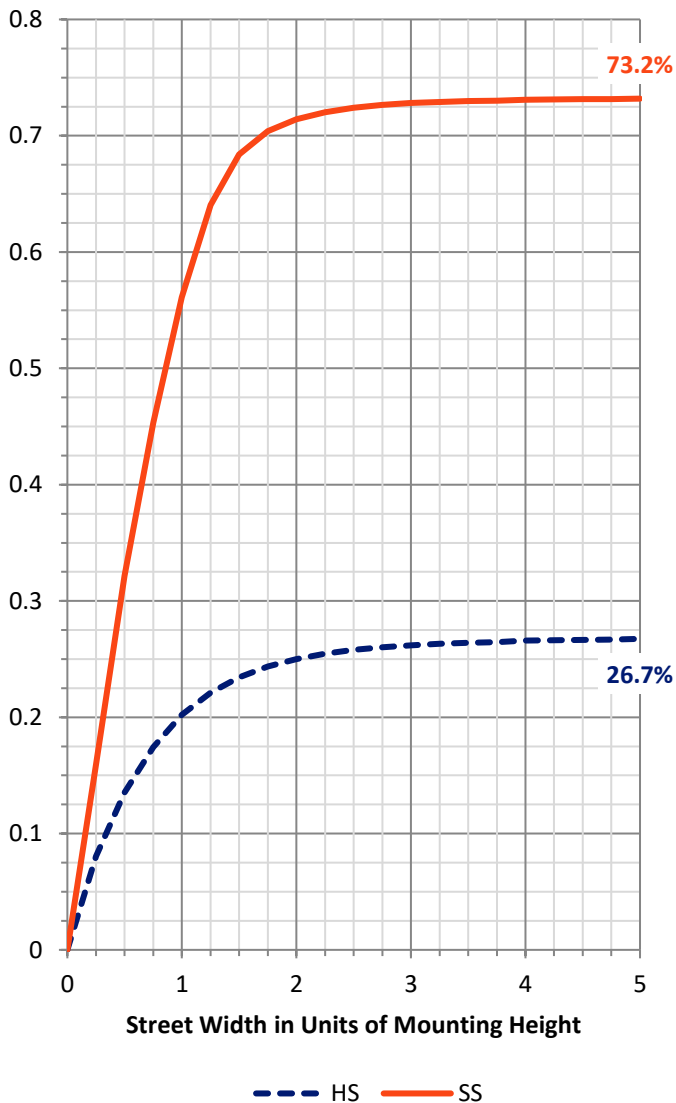
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6309.6	0.0	6309.6
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	17157.4	0.0	17157.4
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	23467.0	0.0	23467.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	445.3	1.9
10°-20°	1398.8	6.0
20°-30°	2446.3	10.4
30°-40°	3830.2	16.3
40°-50°	5571.8	23.7
50°-60°	6123.8	26.1
60°-70°	2733.4	11.6
70°-80°	789.5	3.4
80°-90°	128.1	0.5
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°	23467.0	100.0
0°-180°	23467.0	100.0

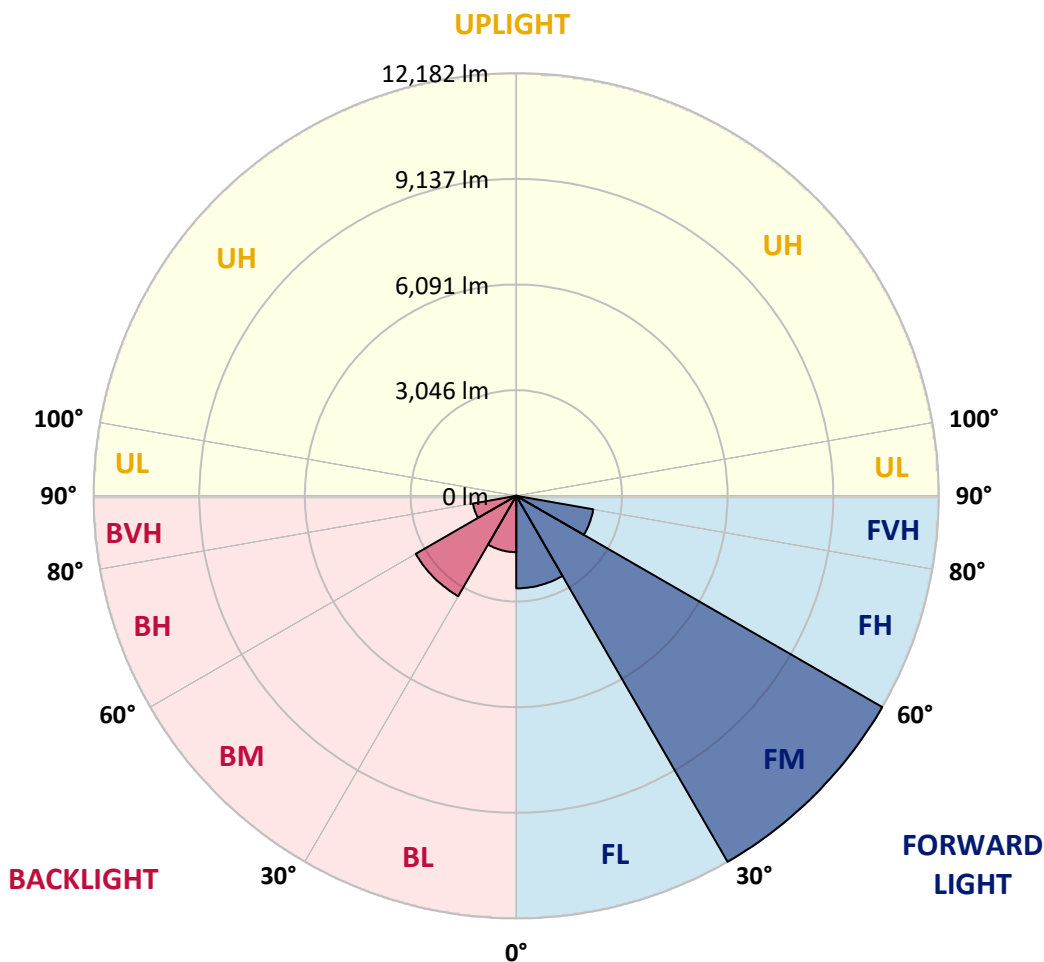


REPORT NUMBER: P530450  
 CATALOG NUMBER: GLAN-SA5C-830-U-T2-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2666.8	11.4			
FM (30°-60°)	12182.2	51.9			
FH (60°-80°)	2253.4	9.6			G2/5000
FVH (80°-90°)	55.1	0.2			G1/100
BL (0°-30°)	1623.6	6.9	B3/2500		
BM (30°-60°)	3343.6	14.2	B3/5000		
BH (60°-80°)	1269.5	5.4	B3/2500		G3/2500
BVH (80°-90°)	72.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**  
 Type II Short





REPORT NUMBER: P530450

CATALOG NUMBER: GLAN-SA5C-830-U-T2-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4490.1	4490.1	4490.1	4490.1	4490.1	4490.1	4490.1	4490.1	4490.1	4490.1	4490.1
2.5°	4946.4	4867.3	4861.2	4839.9	4852.1	4797.4	4739.6	4663.5	4584.4	4633.1	4517.5
5°	5293.2	5186.7	5229.3	5156.3	5165.5	5092.4	4973.8	4885.6	4788.2	4730.4	4648.3
7.5°	5414.9	5424.0	5454.4	5442.3	5381.4	5381.4	5302.3	5147.2	4976.8	4943.4	4806.5
10°	5579.2	5582.2	5548.8	5557.9	5643.1	5603.5	5533.5	5466.6	5247.6	5208.0	4964.7
12.5°	5637.0	5582.2	5637.0	5685.6	5786.0	5840.8	5825.6	5776.9	5542.7	5515.3	5159.4
15°	5646.1	5612.6	5658.3	5767.8	5856.0	6087.2	6202.8	6169.3	5859.0	5862.1	5378.4
17.5°	5603.5	5649.1	5667.4	5761.7	5965.5	6181.5	6516.1	6561.8	6306.2	6266.7	5655.2
20°	5661.3	5627.8	5652.2	5737.4	6008.1	6345.8	6783.8	7085.0	6726.0	6698.7	5941.2
22.5°	5883.4	5837.8	5831.7	5886.4	6081.1	6431.0	7066.8	7608.2	7237.1	7252.3	6297.1
25°	6056.8	6081.1	6059.8	6056.8	6178.5	6558.7	7440.9	8231.9	7930.7	7842.5	6716.9
27.5°	6354.9	6412.7	6370.1	6427.9	6400.5	6750.4	7708.6	8922.4	8679.1	8560.4	7097.2
30°	6768.6	6799.0	6759.5	6759.5	6677.4	7018.1	7952.0	9643.4	9543.0	9381.8	7544.4
32.5°	7313.2	7358.8	7279.7	7234.1	7221.9	7416.6	8390.1	10355.2	10525.6	10388.7	8137.6
35°	8034.1	8006.8	7912.4	7869.9	7705.6	8028.0	9041.1	11173.6	11620.7	11377.4	8855.5
37.5°	8669.9	8627.3	8621.3	8384.0	8423.5	8688.2	9594.7	11794.1	12682.4	12612.5	9613.0
40°	9263.1	9302.7	9366.6	9232.7	9171.9	9463.9	10239.6	12268.7	13506.8	13479.5	10197.0
42.5°	9898.9	9862.4	9975.0	9862.4	9771.2	10184.9	10939.3	12597.3	14230.8	14005.7	10808.5
45°	10820.7	10705.1	10744.6	10753.8	10686.8	10838.9	11228.3	12834.5	14738.9	14714.5	11255.7
47.5°	11590.3	11593.4	11526.4	11474.7	11270.9	11423.0	11550.8	12983.6	15323.0	15283.4	11429.1
50°	11876.3	11836.7	12031.4	12144.0	12156.1	11845.9	11803.3	13065.7	15630.2	15456.8	11602.5
52.5°	10848.1	10884.6	11191.8	11861.1	12247.4	12280.9	12098.3	13236.1	15754.9	15718.4	11742.4
55°	8730.8	8907.2	9412.2	10184.9	11100.5	12107.5	12417.8	13412.5	15821.9	15791.4	12363.0
56°	7675.2	7812.1	8469.1	9074.5	10224.4	11477.8	12217.0	13601.1	15873.6	16016.5	12509.0
57.5°	6178.5	6336.7	6808.2	7495.7	8852.5	10279.2	11663.3	13369.9	15672.8	15727.6	12615.5
60°	3863.4	3878.7	4444.5	4897.7	5853.0	7246.2	8901.1	11632.9	14504.6	14425.5	11331.7
62.5°	2534.1	2537.1	3051.2	3422.3	3857.4	4176.8	5238.5	7714.7	10702.0	10562.1	8067.6
65°	1779.6	1819.2	2217.7	2713.5	2890.0	2722.7	2689.2	4067.3	5977.7	5776.9	4335.0
67.5°	1302.0	1305.1	1657.9	2190.3	2445.8	2071.7	1682.3	1986.5	2366.7	2360.7	2007.8
70°	860.9	897.4	1168.2	1636.6	1928.7	1664.0	1375.0	1420.7	1505.8	1505.8	1493.7
72.5°	501.9	535.4	714.9	1037.3	1083.0	1040.4	1089.1	1216.8	1271.6	1268.5	1253.3
75°	286.0	301.2	340.7	432.0	538.4	635.8	800.1	921.8	976.5	1010.0	970.4
77.5°	167.3	176.4	200.8	246.4	279.9	343.8	435.0	520.2	593.2	584.1	590.2
80°	88.2	88.2	112.6	146.0	194.7	243.4	289.0	337.7	377.2	386.3	395.5
82.5°	51.7	54.8	73.0	106.5	139.9	173.4	222.1	255.5	292.0	295.1	301.2
85°	27.4	30.4	45.6	70.0	94.3	106.5	109.5	103.4	112.6	106.5	121.7
87.5°	9.1	9.1	15.2	12.2	12.2	15.2	18.3	18.3	24.3	24.3	24.3
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: P530450

CATALOG NUMBER: GLAN-SA5C-830-U-T2-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4490.1	4490.1	4490.1	4490.1	4490.1	4490.1	4490.1	4490.1	4490.1	4490.1	4490.1
2.5°	4514.4	4514.4	4462.7	4365.4	4350.2	4310.6	4274.1	4271.1	4243.7	4219.4	4207.2
5°	4599.6	4505.3	4429.3	4341.0	4237.6	4188.9	4134.2	4073.3	4049.0	4073.3	4070.3
7.5°	4697.0	4617.9	4389.7	4225.4	4106.8	4058.1	3997.3	3933.4	3939.5	3939.5	3896.9
10°	4791.3	4684.8	4319.8	4109.8	3936.5	3899.9	3866.5	3890.8	3921.2	3927.3	3899.9
12.5°	4949.5	4709.1	4286.3	3994.3	3884.7	3805.6	3826.9	3893.9	3957.7	3939.5	3960.8
15°	5068.1	4730.4	4134.2	3875.6	3738.7	3775.2	3851.3	3896.9	4003.4	3991.2	4012.5
17.5°	5183.7	4742.6	3985.1	3717.4	3659.6	3760.0	3817.8	3948.6	3982.1	4055.1	4082.5
20°	5421.0	4766.9	3833.0	3620.1	3601.8	3717.4	3817.8	3878.7	3951.7	4015.5	4015.5
22.5°	5542.7	4754.8	3732.6	3492.3	3550.1	3623.1	3714.4	3817.8	3817.8	3878.7	3881.7
25°	5694.8	4706.1	3574.4	3431.5	3474.1	3544.0	3647.5	3610.9	3650.5	3650.5	3699.2
27.5°	5868.2	4602.7	3437.5	3322.0	3407.1	3483.2	3498.4	3474.1	3428.4	3422.3	3404.1
30°	6008.1	4474.9	3337.2	3285.4	3355.4	3398.0	3349.3	3297.6	3218.5	3212.4	3169.8
32.5°	6199.8	4316.7	3212.4	3194.2	3273.3	3276.3	3261.1	3182.0	3066.4	3017.7	2969.1
35°	6522.2	4225.4	3118.1	3145.5	3169.8	3160.7	3133.3	3048.2	2932.6	2911.3	2893.0
37.5°	6759.5	4158.5	3020.8	3054.2	3075.5	3087.7	3005.6	2911.3	2914.3	2871.7	2859.6
40°	7027.2	4115.9	2941.7	2956.9	2959.9	2999.5	2899.1	2853.5	2874.8	2847.4	2865.6
42.5°	7371.0	4128.1	2859.6	2847.4	2905.2	2890.0	2841.3	2780.5	2792.6	2710.5	2722.7
45°	7553.5	4210.2	2810.9	2756.1	2820.0	2817.0	2753.1	2695.3	2622.3	2464.1	2470.2
47.5°	7675.2	4231.5	2695.3	2658.8	2725.7	2765.3	2692.2	2558.4	2455.0	2342.4	2315.0
50°	7799.9	4271.1	2640.5	2564.5	2591.9	2686.2	2594.9	2467.1	2366.7	2266.3	2281.6
52.5°	7909.4	4347.1	2534.1	2421.5	2470.2	2573.6	2524.9	2369.8	2260.3	2178.1	2153.8
55°	8396.1	4517.5	2354.6	2208.5	2324.1	2455.0	2427.6	2239.0	2120.3	2077.7	2071.7
56°	8472.2	4523.6	2260.3	2135.5	2242.0	2415.4	2381.9	2181.2	2074.7	2007.8	2010.8
57.5°	8484.4	4450.6	2126.4	2068.6	2159.9	2357.6	2315.0	2135.5	1989.5	1928.7	1910.4
60°	7465.3	3474.1	1959.1	1922.6	2029.1	2181.2	2166.0	2010.8	1846.5	1776.6	1810.0
62.5°	5089.4	2546.2	1828.3	1822.2	1877.0	2026.0	1986.5	1846.5	1709.6	1664.0	1642.7
65°	2963.0	1931.7	1700.5	1676.2	1721.8	1800.9	1828.3	1682.3	1539.3	1508.9	1499.7
67.5°	1749.2	1597.1	1536.3	1496.7	1481.5	1530.2	1551.5	1466.3	1323.3	1280.7	1317.2
70°	1463.2	1420.7	1423.7	1356.8	1320.3	1286.8	1268.5	1192.5	1073.9	1019.1	1003.9
72.5°	1262.5	1244.2	1232.0	1171.2	1137.7	1061.7	982.6	906.5	818.3	772.7	775.7
75°	964.3	958.3	964.3	933.9	876.1	815.3	742.3	644.9	578.0	520.2	532.4
77.5°	575.0	593.2	602.3	590.2	565.8	511.1	465.4	401.6	337.7	292.0	286.0
80°	395.5	410.7	425.9	410.7	386.3	346.8	298.1	249.5	203.8	179.5	173.4
82.5°	301.2	316.4	325.5	310.3	279.9	237.3	203.8	170.4	133.9	109.5	103.4
85°	109.5	124.7	121.7	146.0	158.2	152.1	130.8	100.4	76.1	54.8	51.7
87.5°	30.4	27.4	30.4	30.4	30.4	27.4	24.3	24.3	24.3	15.2	12.2
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)