

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: P653594

Luminaire Tested: **GLAN-SA9D-840-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P653594  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA9D-840-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34425.5 lumens  
Efficiency: N/A  
Efficacy: 62.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

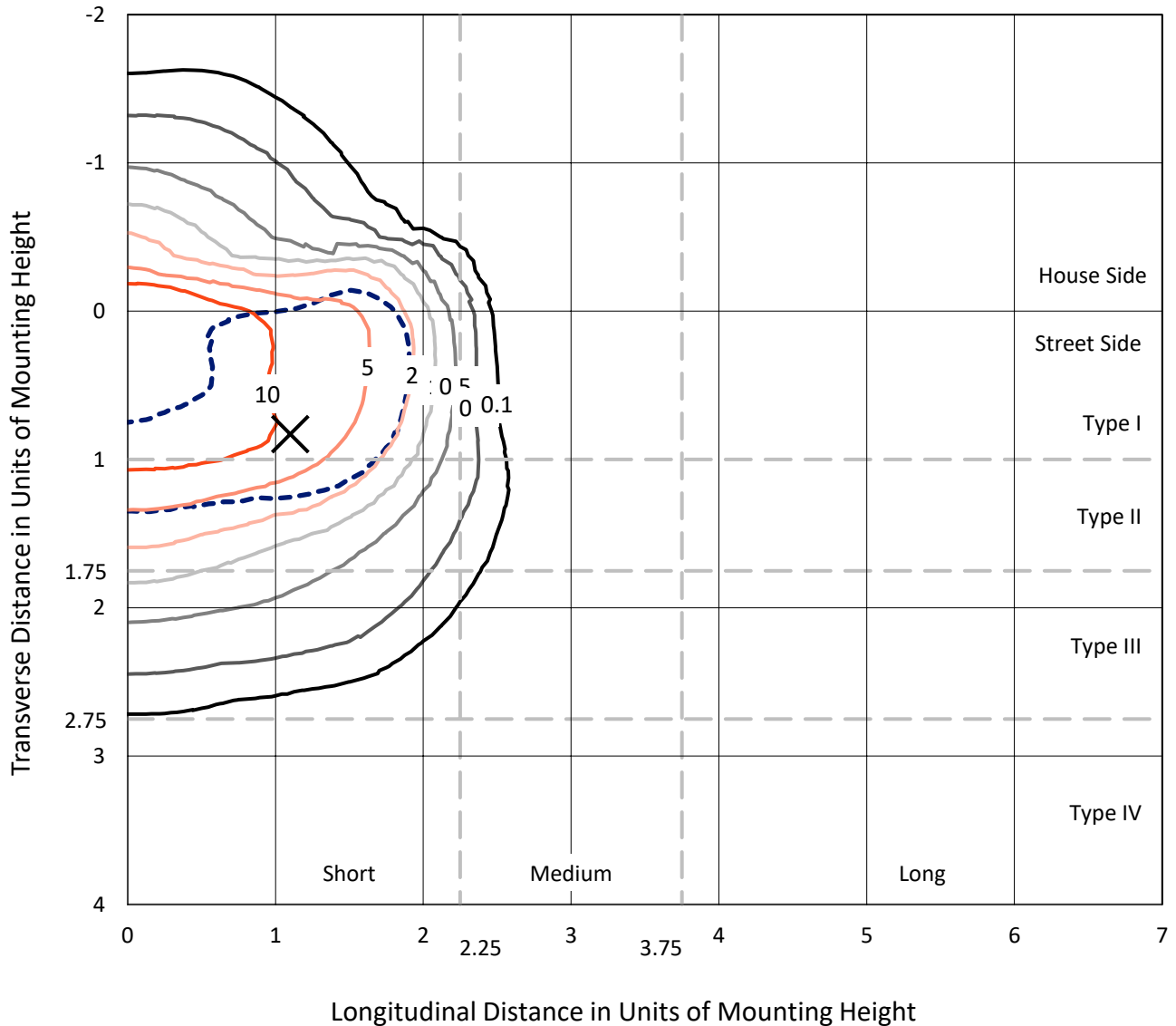
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

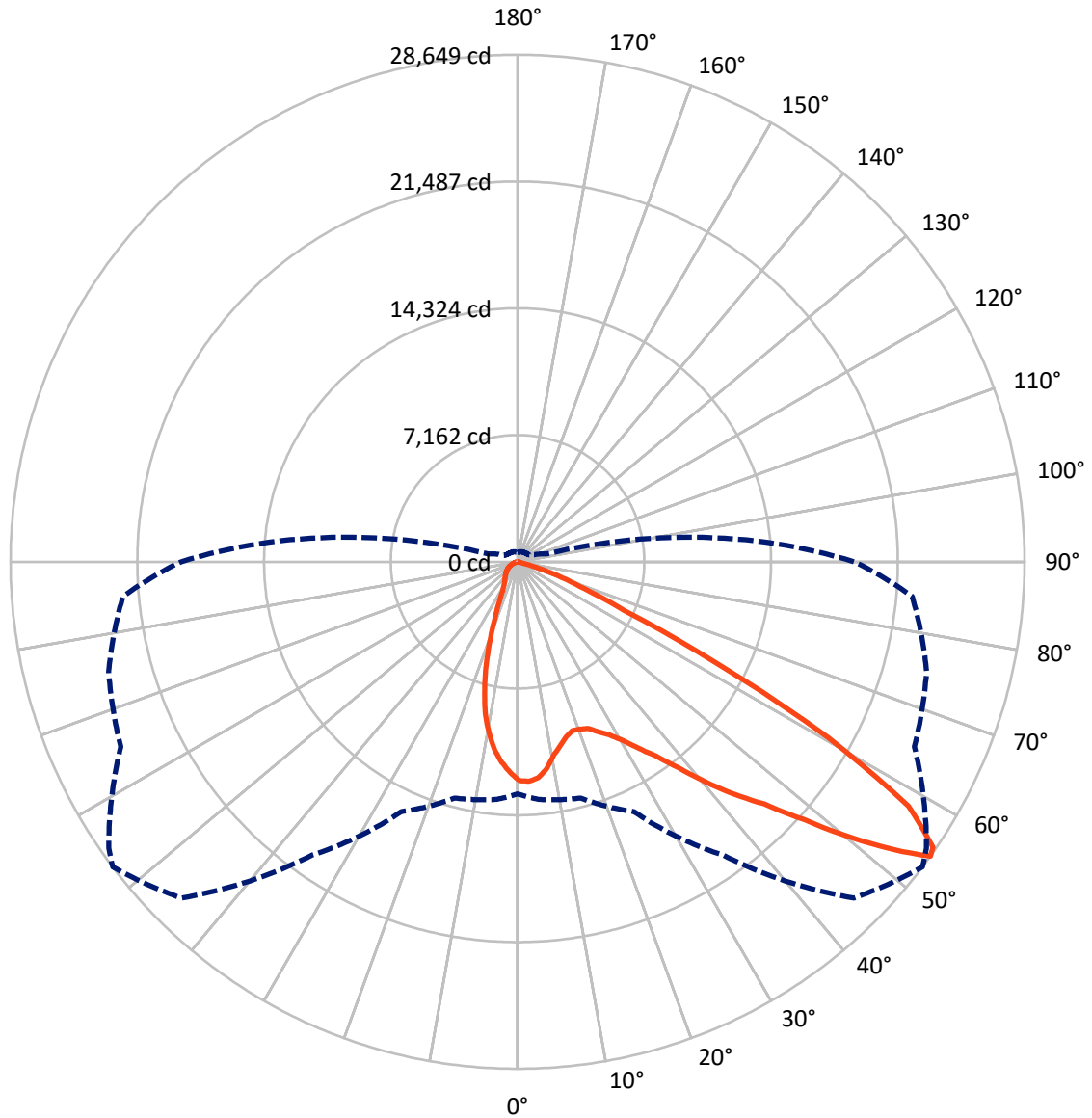
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

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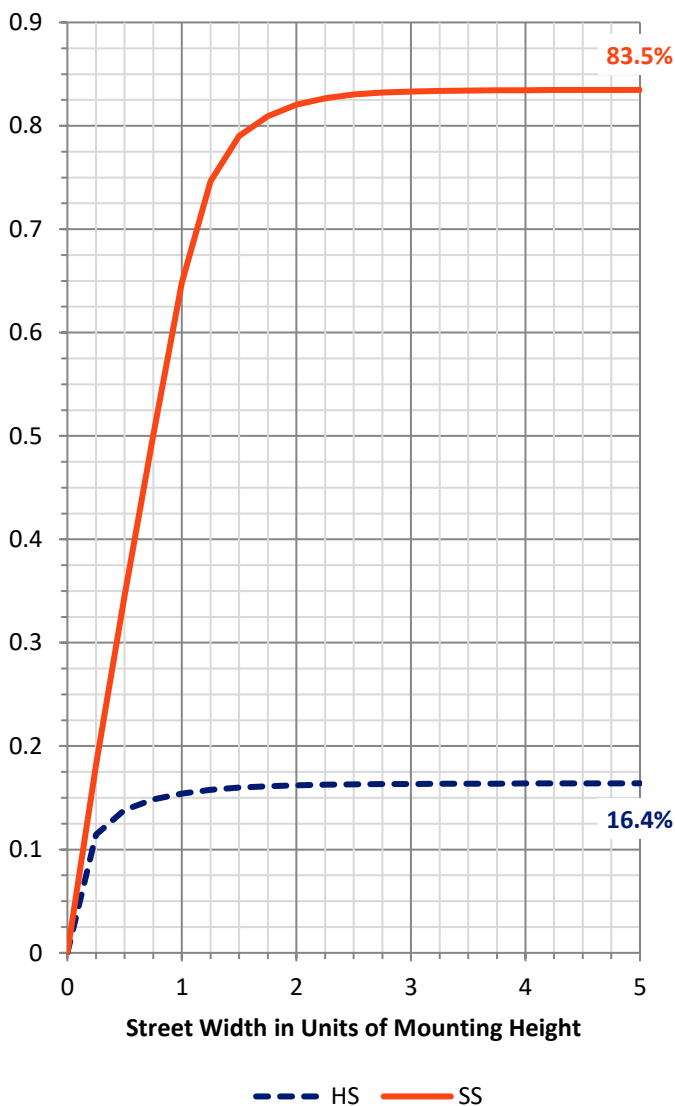
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5695.8	0.0	5695.8
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	28729.7	0.0	28729.7
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	34425.5	0.0	34425.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1060.9	3.1
10°-20°	2432.3	7.1
20°-30°	3456.8	10.0
30°-40°	5334.8	15.5
40°-50°	8364.4	24.3
50°-60°	9716.4	28.2
60°-70°	3671.5	10.7
70°-80°	349.1	1.0
80°-90°	39.3	0.1
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°	34425.5	100.0
0°-180°	34425.5	100.0

**Coefficient of Utilization**



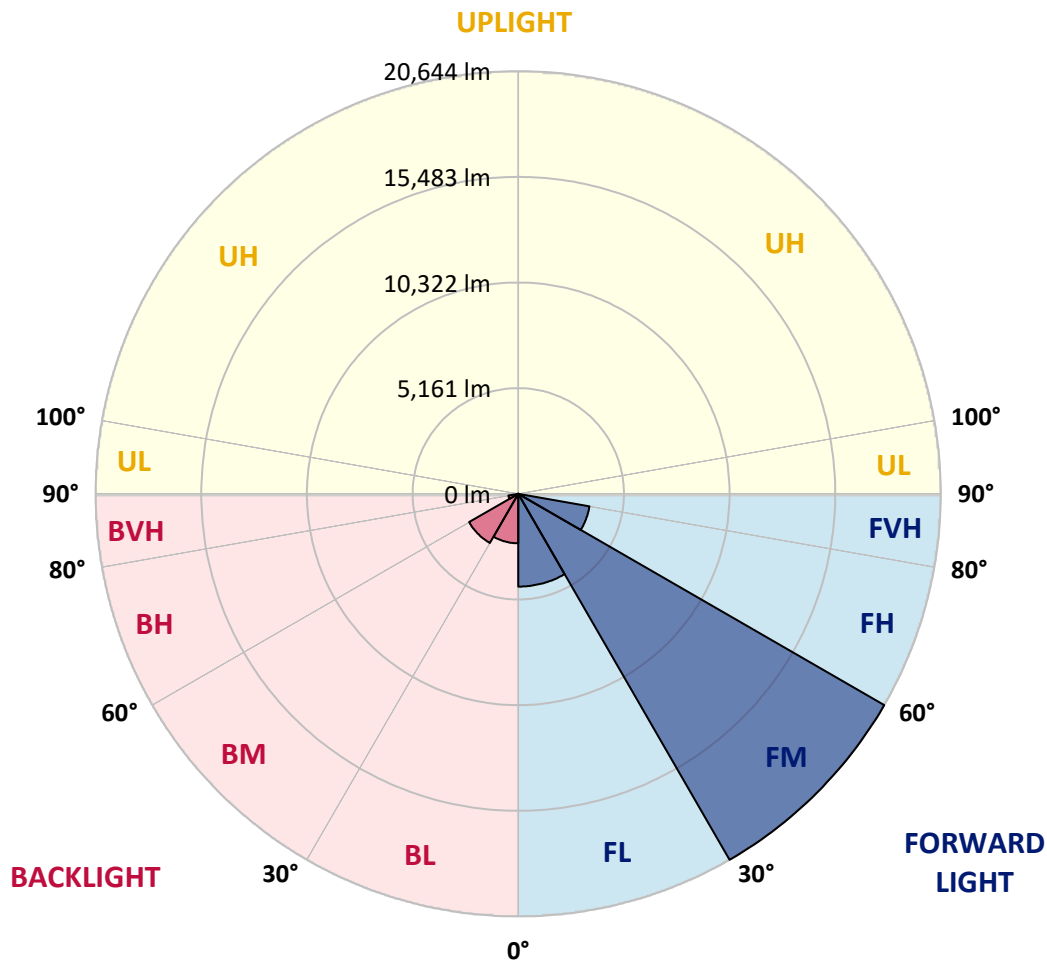
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 CATALOG NUMBER: GLAN-SA9D-840-U-SL2-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4532.9	13.2			
FM (30°-60°)	20643.9	60.0			
FH (60°-80°)	3532.6	10.3			G2/5000
FVH (80°-90°)	20.3	0.1			G1/100
BL (0°-30°)	2417.1	7.0	B3/2500		
BM (30°-60°)	2771.7	8.1	B3/5000		
BH (60°-80°)	488.0	1.4	B1/500		G1/500
BVH (80°-90°)	19.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





REPORT NUMBER: P653594

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	12365.1	12365.1	12365.1	12365.1	12365.1	12365.1	12365.1	12365.1	12365.1	12365.1	12365.1
2.5°	12300.9	12191.9	12300.9	12313.8	12390.7	12461.3	12416.4	12519.0	12461.3	12397.1	12377.9
5°	11306.8	11454.3	11460.7	11691.7	11640.4	12063.6	12249.6	12198.3	12512.6	12493.3	12448.4
7.5°	10415.4	10357.7	10434.6	10704.0	11043.9	11531.3	11800.7	11794.3	12243.2	12563.9	12531.8
10°	9588.1	9581.6	9742.0	9953.7	10242.2	10755.3	11127.3	11313.2	12012.3	12499.7	12570.3
12.5°	9030.1	9004.4	9177.6	9350.7	9806.1	10203.8	10678.3	10768.1	11569.8	12275.2	12390.7
15°	8664.5	8722.3	8735.0	9068.6	9357.1	9883.1	10255.1	10441.0	11364.6	12095.7	12538.2
17.5°	8600.4	8677.4	8683.7	8959.5	9267.4	9709.9	10037.0	10287.1	11191.4	12185.5	12544.6
20°	8728.7	8683.7	8722.3	8895.4	9196.8	9620.1	10094.7	10178.1	11133.7	12230.4	12615.2
22.5°	9094.2	9081.4	8985.2	9126.3	9338.0	9780.5	10229.4	10357.7	11300.4	12461.3	12672.9
25°	9498.3	9568.8	9479.0	9459.8	9607.3	10043.4	10639.8	10806.6	11858.4	12878.1	12852.5
27.5°	10255.1	10184.5	10184.5	10094.7	10056.3	10267.9	11082.4	11358.1	12480.5	13416.9	13057.7
30°	10979.8	11056.7	10999.0	11031.1	10774.6	10755.3	11710.9	12050.8	13583.6	14237.8	13493.8
32.5°	12127.7	12025.1	12121.3	12038.0	11698.1	11351.7	12563.9	12916.6	14917.6	15180.6	14148.0
35°	13083.4	13038.4	13448.9	13436.1	12884.5	12544.6	13468.2	13994.1	15847.6	16309.3	14917.6
37.5°	14443.0	14359.7	14827.8	15052.3	14558.5	14051.8	14763.7	15373.0	16713.4	17213.6	15706.4
40°	15841.2	16052.8	16681.3	17053.3	16527.3	15853.9	16347.8	16533.8	17290.5	17803.6	16245.2
42.5°	17611.2	17919.1	18560.4	18881.1	18836.2	18105.0	17957.5	17951.1	17707.4	17636.9	16642.8
45°	19310.8	19195.3	20183.0	20882.0	21446.4	21234.8	19509.6	19317.2	18368.0	17887.0	16745.4
47.5°	20054.7	20016.2	20689.7	21933.9	23857.9	24120.8	21767.1	21023.1	19484.0	18938.8	17303.4
50°	19092.7	19291.5	19958.5	21337.4	24287.6	26295.0	24537.7	23537.2	20785.9	20221.5	18624.5
52.5°	15950.2	16084.8	16719.8	18470.6	22825.3	27577.7	27192.9	26615.6	23178.0	22241.7	20926.9
54°	13115.4	13474.6	13820.9	15578.2	20221.5	26865.7	28648.7	28206.2	24736.5	23922.0	22376.4
55°	11422.3	11633.9	11884.1	13634.9	18419.3	25660.1	28482.0	28520.4	25781.9	24448.0	23351.2
57.5°	8343.8	8491.3	8234.8	9010.8	12647.2	20837.2	26051.2	27090.2	27192.9	25236.8	23947.6
60°	6374.9	6439.0	6150.5	6272.3	7862.8	14301.9	20150.9	21401.5	24531.3	22055.7	20285.6
62.5°	4944.7	4957.5	4951.1	5162.8	5419.3	8414.4	12602.4	13711.8	16912.2	15661.5	13776.0
65°	3642.8	3585.1	3687.7	4329.0	4624.1	5291.1	6637.8	7446.0	9190.4	7760.2	5547.6
67.5°	2360.1	2379.4	2482.0	3219.5	3963.5	4059.7	4085.3	4021.2	4027.6	2219.1	1391.7
70°	1417.3	1449.5	1417.3	1821.4	2834.8	2911.7	2661.6	2597.4	2026.6	525.9	519.5
72.5°	840.2	795.2	711.9	782.5	1180.1	1410.9	1269.8	1263.4	795.2	307.8	307.8
75°	352.7	320.7	263.0	237.3	314.3	301.4	301.4	269.4	211.7	205.2	192.4
77.5°	70.6	70.6	51.3	57.7	77.0	89.8	109.0	109.0	128.3	128.3	121.9
80°	0.0	6.4	19.3	38.5	57.7	83.3	96.2	96.2	109.0	109.0	89.8
82.5°	0.0	6.4	19.3	38.5	51.3	77.0	96.2	96.2	109.0	115.5	96.2
85°	0.0	6.4	19.3	32.0	51.3	64.2	64.2	57.7	44.9	38.5	25.7
87.5°	0.0	0.0	6.4	12.9	6.4	12.9	12.9	12.9	12.9	12.9	12.9
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: P653594

CATALOG NUMBER: GLAN-SA9D-840-U-SL2-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12365.1	12365.1	12365.1	12365.1	12365.1	12365.1	12365.1	12365.1	12365.1	12365.1	12365.1
2.5°	12422.7	12416.4	12262.5	12012.3	11954.6	11743.0	11717.3	11589.1	11659.5	11422.3	11396.6
5°	12320.1	12243.2	12057.2	11896.9	11428.7	11095.2	10832.2	10511.6	10325.6	10357.7	10235.8
7.5°	12467.7	12268.8	11941.8	11383.8	10813.0	10229.4	9915.1	9261.0	9023.7	8671.0	8619.7
10°	12313.8	12166.2	11659.5	10736.0	9947.2	9107.0	8369.5	7644.8	7093.2	6855.9	6804.6
12.5°	12300.9	12044.4	11197.8	10171.6	9030.1	7824.3	6753.3	5849.1	5303.9	4996.0	4925.5
15°	12102.1	11794.3	10678.3	9299.4	7721.7	6221.0	5053.7	4181.5	3764.7	3585.1	3636.4
17.5°	12121.3	11659.5	10158.9	8375.9	6432.6	4566.4	3450.5	3001.4	2892.5	2937.4	2937.4
20°	12102.1	11358.1	9530.3	7311.3	4925.5	3168.2	2533.3	2373.0	2443.5	2584.6	2552.5
22.5°	11999.5	11217.1	8953.1	6188.9	3623.6	2347.3	2033.0	2039.4	2148.5	2321.7	2360.1
25°	12076.4	10902.8	8222.0	5053.7	2642.3	1872.7	1763.7	1808.6	1924.0	2052.3	2077.9
27.5°	12018.7	10678.3	7458.8	3925.0	1930.4	1609.8	1603.4	1654.7	1706.0	1802.2	1802.2
30°	12082.9	10473.1	6708.4	2918.1	1590.5	1475.1	1449.5	1487.9	1539.2	1558.5	1552.1
32.5°	12320.1	10319.2	5842.6	2180.5	1404.6	1346.8	1346.8	1346.8	1340.4	1366.0	1372.5
35°	12839.6	10344.8	5079.4	1686.7	1282.7	1237.8	1218.5	1192.9	1180.1	1192.9	1199.3
37.5°	13404.0	10332.0	4290.6	1436.6	1192.9	1154.4	1109.5	1071.0	1064.6	1077.5	1058.2
40°	13654.1	10453.9	3559.4	1289.1	1109.5	1064.6	994.1	962.0	968.4	981.3	968.4
42.5°	13994.1	10492.3	3084.9	1173.6	1032.6	962.0	917.1	878.7	872.2	891.5	885.1
45°	13987.7	10274.2	2584.6	1109.5	962.0	885.1	827.3	795.2	795.2	808.1	814.5
47.5°	14398.1	10242.2	2219.1	1051.8	910.7	833.8	763.2	737.6	731.2	731.2	718.3
50°	15353.7	10691.1	1936.8	987.7	846.6	776.0	718.3	686.3	660.6	647.7	641.3
52.5°	17220.0	12089.3	1718.8	910.7	776.0	718.3	667.0	641.3	609.3	577.2	570.8
54°	19028.6	13532.3	1706.0	846.6	718.3	679.8	635.0	622.1	583.7	538.7	525.9
55°	19843.1	14372.4	1750.9	795.2	679.8	654.1	615.7	602.8	564.4	513.1	506.6
57.5°	20516.5	14699.5	1725.2	660.6	615.7	609.3	577.2	558.0	513.1	442.5	429.7
60°	16514.5	11114.4	1237.8	583.7	564.4	551.5	525.9	513.1	455.3	378.4	372.0
62.5°	10434.6	6394.2	788.9	513.1	493.8	474.6	442.5	429.7	378.4	301.4	282.2
65°	4444.5	2648.7	532.4	455.3	423.3	391.2	365.6	346.3	301.4	224.5	218.1
67.5°	1154.4	942.8	442.5	397.6	352.7	307.8	288.6	256.5	205.2	153.9	147.5
70°	519.5	474.6	372.0	333.5	282.2	237.3	211.7	179.6	134.6	102.6	96.2
72.5°	307.8	301.4	282.2	250.1	211.7	179.6	153.9	121.9	89.8	57.7	57.7
75°	192.4	186.0	192.4	173.2	147.5	134.6	115.5	83.3	51.3	25.7	25.7
77.5°	115.5	115.5	115.5	109.0	102.6	102.6	83.3	51.3	25.7	6.4	6.4
80°	89.8	89.8	96.2	89.8	89.8	89.8	70.6	38.5	12.9	0.0	0.0
82.5°	89.8	96.2	109.0	102.6	89.8	77.0	64.2	38.5	12.9	0.0	0.0
85°	25.7	19.3	32.0	44.9	64.2	57.7	44.9	32.0	12.9	0.0	0.0
87.5°	12.9	12.9	12.9	12.9	6.4	6.4	6.4	6.4	6.4	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)