

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: P454148

Luminaire Tested: **GLAN-SA5B-727-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454148
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA5B-727-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17115 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 204
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

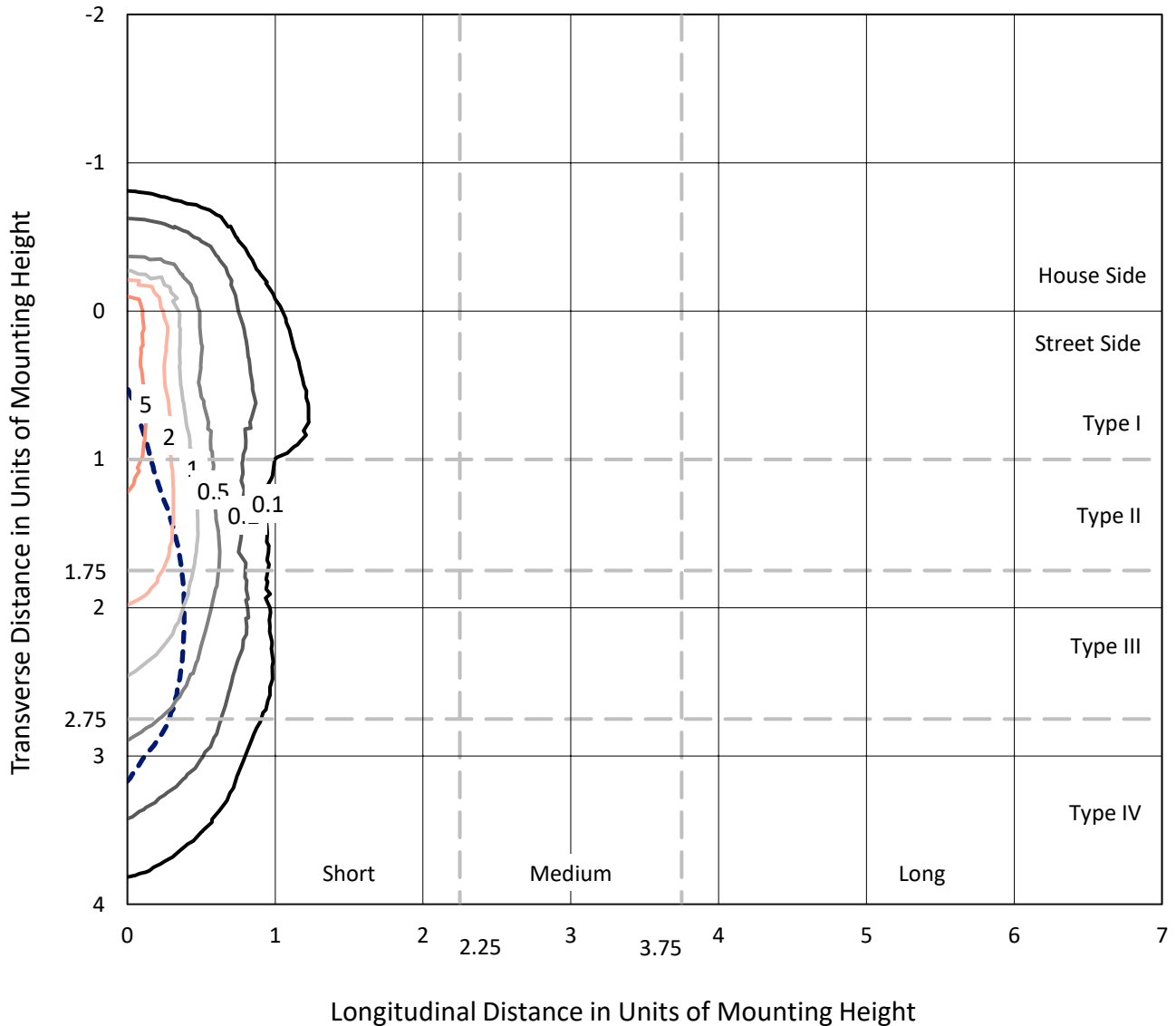




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Iso-Footcandle Lines of Horizontal Illumination

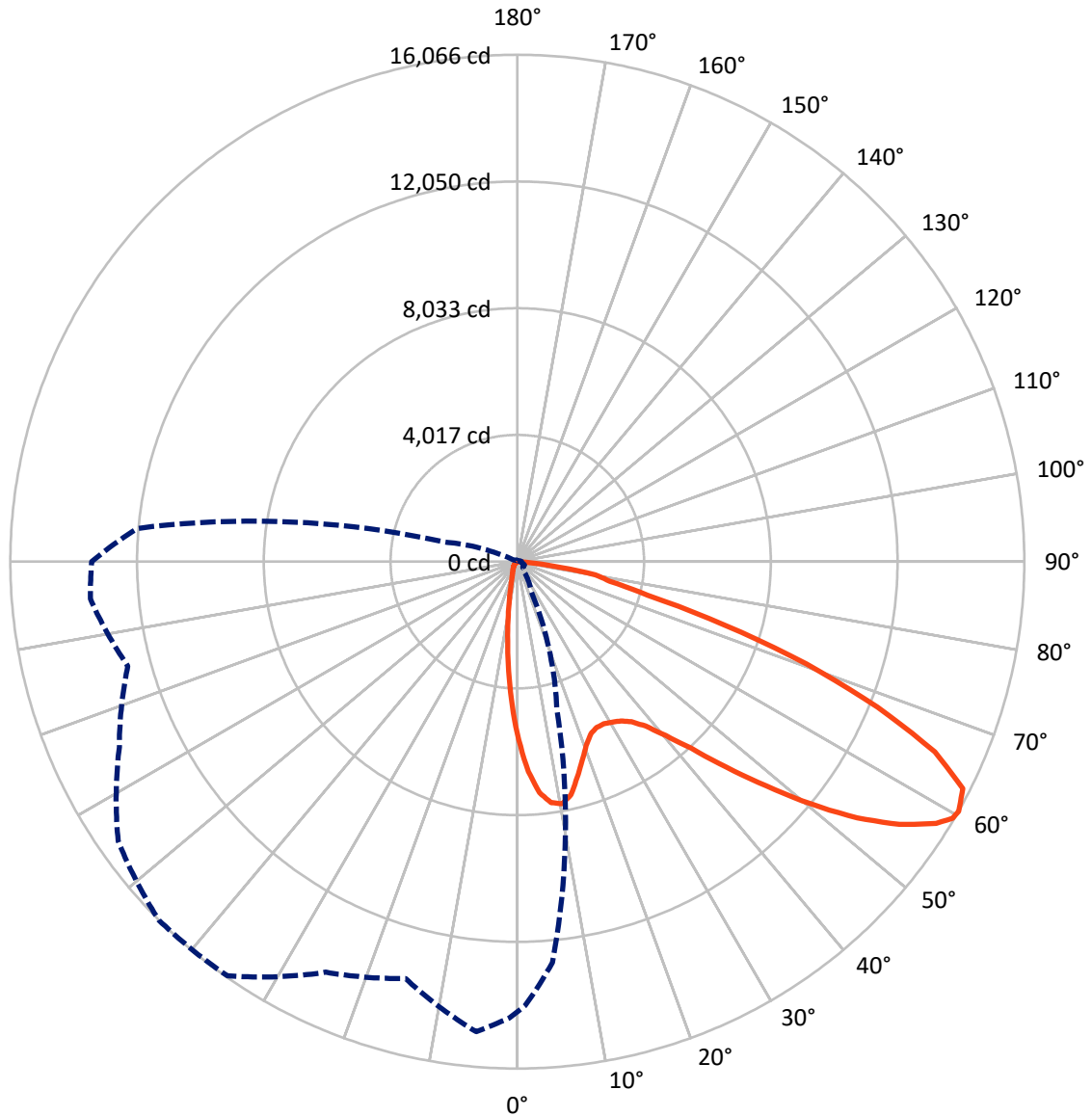
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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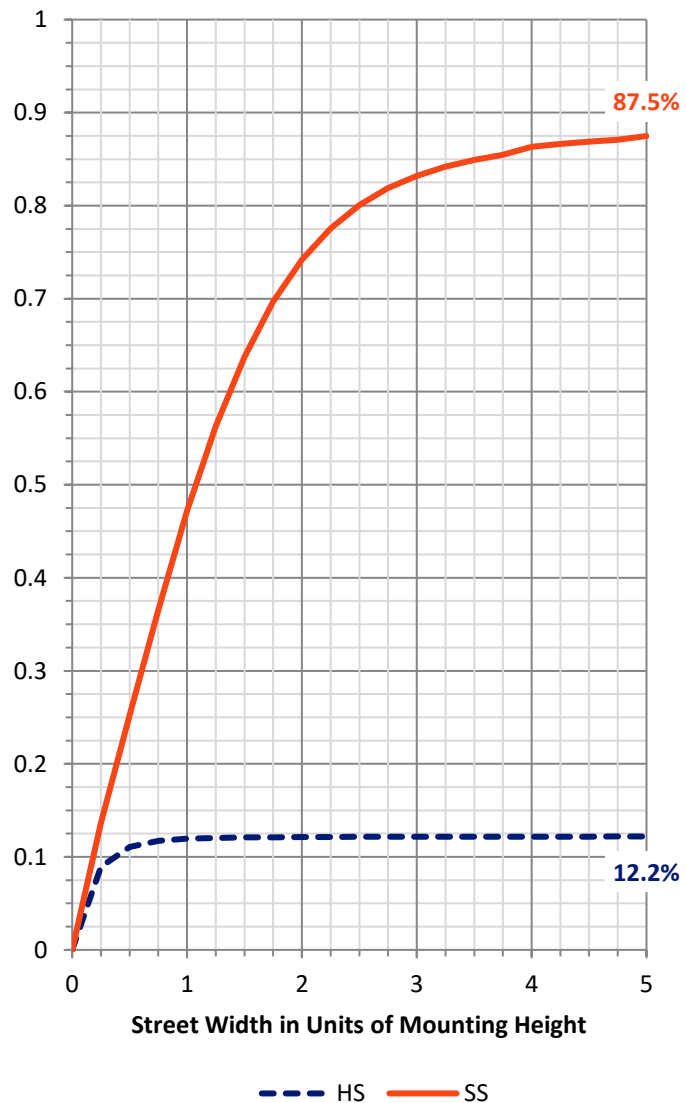
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2110.9	0.0	2110.9
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	15004.0	0.0	15004.0
	% Fixture	87.7	0.0	87.7
Total	Lumens	17115.0	0.0	17115.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	420.7	2.5
10°-20°	835.6	4.9
20°-30°	1225.2	7.2
30°-40°	1822.1	10.6
40°-50°	2651.7	15.5
50°-60°	3823.9	22.3
60°-70°	4205.9	24.6
70°-80°	1883.9	11.0
80°-90°	246.2	1.4
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°	17115.0	100.0
0°-180°	17115.0	100.0

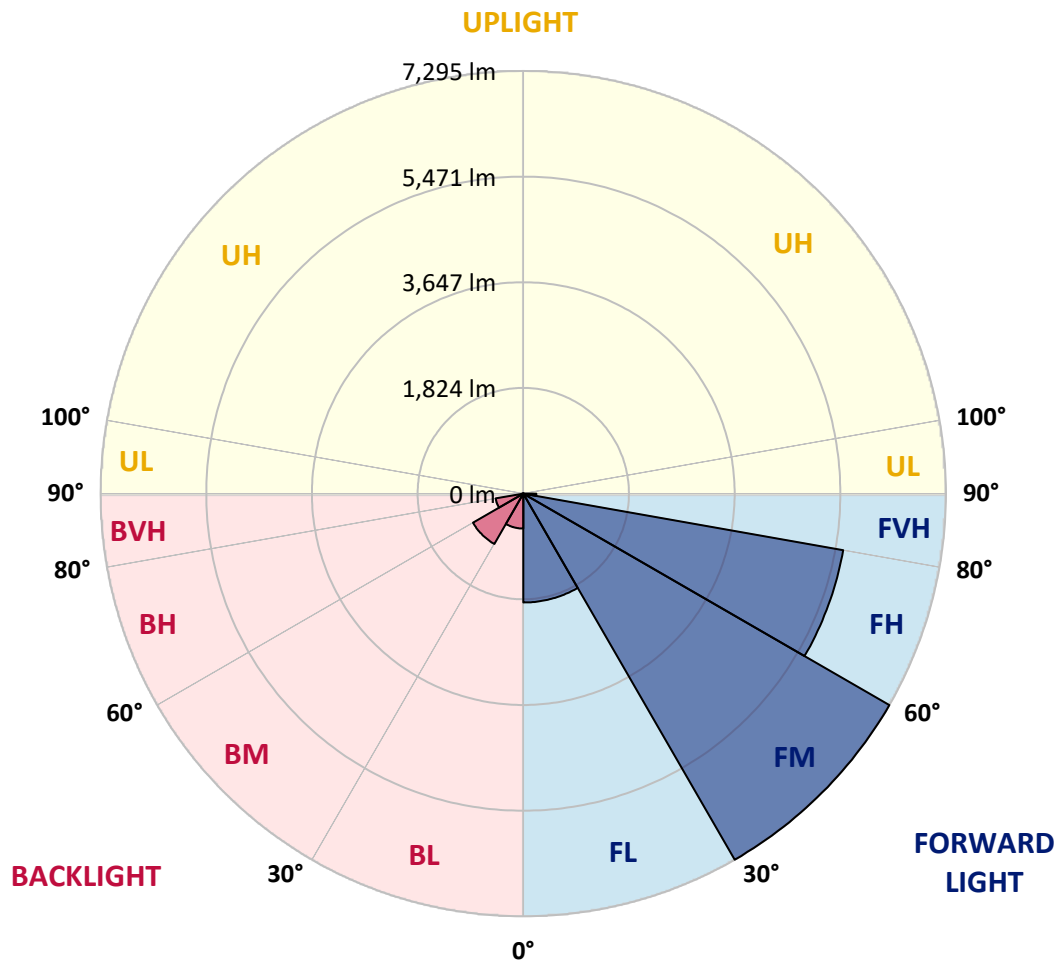


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1878.3	11.0			
FM (30°-60°)	7294.9	42.6			
FH (60°-80°)	5605.7	32.8			G3/7500
FVH (80°-90°)	225.1	1.3			G3/500
BL (0°-30°)	603.2	3.5	B2/1000		
BM (30°-60°)	1002.7	5.9	B2/2500		
BH (60°-80°)	484.1	2.8	B1/500		G1/500
BVH (80°-90°)	21.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5656.8	5656.8	5656.8	5656.8	5656.8	5656.8	5656.8	5656.8	5656.8	5656.8	5656.8
2.5°	6218.8	6191.5	6129.0	5939.1	5773.8	5557.9	5339.3	5167.6	5062.2	4868.3	4779.9
5°	6024.9	6037.9	5857.1	5466.8	5032.3	4735.6	4411.7	4154.1	3870.5	3690.9	3502.3
7.5°	5518.8	5492.8	5296.4	4752.6	4224.4	3795.0	3385.2	3052.1	2842.7	2674.9	2534.3
10°	5085.6	5066.1	4815.0	4115.1	3547.8	3226.5	2949.4	2657.9	2432.9	2187.0	1990.5
12.5°	4813.7	4769.5	4480.6	3749.5	3287.6	2988.4	2686.6	2383.4	2072.5	1824.0	1585.9
15°	4722.6	4658.9	4337.5	3623.3	3121.1	2741.2	2362.6	2013.9	1656.2	1381.7	1202.1
17.5°	4887.9	4782.5	4440.3	3601.2	2922.0	2418.6	1952.8	1498.8	1126.7	917.2	806.6
20°	5266.5	5145.5	4700.5	3579.1	2700.9	2056.9	1484.4	1059.0	779.3	664.8	603.7
22.5°	5828.5	5662.0	5085.6	3614.2	2496.6	1704.3	1072.0	748.1	619.3	547.7	504.8
25°	6503.7	6364.5	5573.5	3739.1	2335.3	1427.2	828.7	611.5	521.7	477.5	444.9
27.5°	7244.0	7021.5	6204.5	3888.7	2188.3	1212.5	727.3	546.4	464.5	424.1	407.2
30°	7770.9	7597.8	6732.7	3992.8	2004.8	1051.2	664.8	538.6	465.8	417.6	386.4
32.5°	8291.3	8070.1	7175.0	4040.9	1870.8	939.3	575.0	469.7	408.5	383.8	352.6
35°	8848.1	8616.5	7616.1	4014.9	1770.7	865.2	521.7	418.9	350.0	308.3	277.1
37.5°	9411.4	9166.9	8054.5	3921.2	1708.2	835.2	480.1	398.1	330.5	287.5	253.7
40°	10080.2	9753.6	8465.6	3844.5	1643.2	819.6	452.7	385.1	316.1	270.6	236.8
42.5°	10626.6	10315.6	8854.6	3804.1	1598.9	783.2	452.7	374.7	307.0	256.3	221.2
45°	11144.4	10821.7	9274.8	3836.7	1580.7	737.7	458.0	373.4	300.5	245.9	210.8
47.5°	11577.6	11297.9	9706.8	3958.9	1557.3	688.2	430.6	391.6	296.6	236.8	200.4
50°	12088.9	11818.3	10277.9	4206.1	1515.7	638.8	396.8	421.5	295.3	229.0	191.2
52.5°	12809.7	12516.9	11066.3	4487.2	1449.3	563.3	365.6	417.6	290.1	216.0	182.1
55°	13690.4	13453.7	11979.6	4824.1	1358.2	478.8	316.1	370.8	274.5	193.8	166.5
57.5°	14255.1	14053.4	12663.9	4969.8	1219.0	391.6	278.4	310.9	251.1	173.0	148.3
59°	14321.4	14139.3	12807.1	4921.7	1128.0	357.8	260.2	266.7	244.6	161.3	137.9
60°	14265.5	14076.8	12749.8	4828.0	1043.4	334.4	244.6	236.8	245.9	154.8	130.1
62.5°	13906.4	13583.8	12194.3	4353.1	912.0	307.0	217.3	193.8	217.3	139.2	115.8
65°	13213.0	12729.0	11094.9	3684.4	860.0	291.4	184.7	162.6	165.2	122.3	100.2
67.5°	12001.7	11391.6	9631.3	2993.6	837.8	292.7	156.1	145.7	127.5	104.1	88.5
70°	10086.7	9477.8	7727.9	2462.8	827.4	292.7	132.7	124.9	106.7	87.2	76.8
72.5°	7147.7	6492.0	5213.1	1934.6	745.5	291.4	113.2	113.2	87.2	72.9	62.4
75°	4038.3	4043.5	3277.2	1368.7	619.3	240.7	91.1	89.8	63.7	55.9	46.8
77.5°	2353.5	2311.9	2209.1	588.1	287.5	109.3	63.7	54.6	44.2	40.3	33.8
80°	1209.9	995.3	969.2	213.4	102.8	69.0	44.2	31.2	28.6	26.0	23.4
82.5°	357.8	359.1	320.0	85.9	57.2	45.5	22.1	16.9	15.6	14.3	14.3
85°	24.7	15.6	18.2	26.0	35.1	18.2	1.3	3.9	3.9	5.2	6.5
87.5°	2.6	1.3	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5656.8	5656.8	5656.8	5656.8	5656.8	5656.8	5656.8	5656.8	5656.8	5656.8	5656.8
2.5°	4682.3	4739.5	4632.9	4635.5	4547.0	4575.6	4471.5	4505.4	4444.2	4491.1	4629.0
5°	3523.1	3536.1	3450.3	3422.9	3435.9	3489.3	3510.1	3415.1	3455.5	3376.1	3370.9
7.5°	2482.3	2497.9	2448.5	2442.0	2535.7	2513.5	2553.9	2456.3	2363.9	2404.2	2330.1
10°	1928.1	1863.0	1761.6	1732.9	1714.7	1726.4	1726.4	1638.0	1625.0	1589.8	1643.2
12.5°	1522.2	1442.8	1346.5	1216.4	1183.9	1181.3	1133.2	1055.1	1030.4	1000.5	1044.7
15°	1105.9	1073.3	992.7	919.8	845.7	831.3	753.3	689.5	605.0	593.3	589.4
17.5°	778.0	729.9	728.6	686.9	644.0	615.4	542.5	469.7	437.1	433.2	433.2
20°	582.8	565.9	538.6	533.4	520.4	487.9	422.8	383.8	368.2	369.5	374.7
22.5°	490.5	478.8	454.0	442.3	437.1	408.5	360.4	334.4	326.6	326.6	327.9
25°	438.4	428.0	400.7	382.5	376.0	355.2	317.4	297.9	291.4	291.4	291.4
27.5°	399.4	386.4	357.8	342.2	330.5	307.0	283.6	264.1	257.6	257.6	258.9
30°	372.1	357.8	331.8	310.9	292.7	271.9	252.4	235.5	227.7	226.4	227.7
32.5°	335.7	322.6	296.6	283.6	262.8	238.1	222.5	206.9	199.1	200.4	199.1
35°	261.5	257.6	239.4	243.3	231.6	210.8	196.5	179.5	170.4	169.1	171.7
37.5°	238.1	222.5	201.7	203.0	199.1	191.2	167.8	149.6	143.1	143.1	144.4
40°	219.9	204.3	180.8	169.1	170.4	170.4	145.7	126.2	119.7	118.4	121.0
42.5°	204.3	188.6	162.6	143.1	137.9	144.4	123.6	104.1	97.6	95.0	97.6
45°	193.8	176.9	147.0	124.9	109.3	117.1	101.5	85.9	78.1	78.1	76.8
47.5°	183.4	167.8	135.3	108.0	91.1	87.2	83.3	69.0	61.1	59.8	61.1
50°	174.3	158.7	122.3	93.7	76.8	67.7	67.7	54.6	49.4	46.8	48.1
52.5°	165.2	148.3	110.6	83.3	66.4	54.6	48.1	44.2	40.3	39.0	40.3
55°	152.2	135.3	98.9	71.6	57.2	45.5	37.7	36.4	33.8	31.2	33.8
57.5°	136.6	121.0	87.2	61.1	45.5	35.1	31.2	29.9	27.3	26.0	26.0
59°	127.5	113.2	80.7	53.3	40.3	31.2	28.6	27.3	24.7	22.1	23.4
60°	122.3	110.6	76.8	49.4	36.4	28.6	26.0	24.7	22.1	20.8	22.1
62.5°	108.0	98.9	67.7	40.3	28.6	20.8	18.2	19.5	18.2	16.9	18.2
65°	95.0	87.2	57.2	31.2	22.1	14.3	13.0	16.9	15.6	14.3	15.6
67.5°	84.6	75.5	48.1	23.4	15.6	7.8	9.1	14.3	14.3	13.0	14.3
70°	72.9	65.1	39.0	16.9	7.8	3.9	6.5	10.4	13.0	11.7	13.0
72.5°	59.8	50.7	29.9	11.7	3.9	0.0	3.9	9.1	13.0	11.7	13.0
75°	46.8	37.7	22.1	6.5	0.0	0.0	1.3	7.8	13.0	11.7	13.0
77.5°	33.8	27.3	13.0	1.3	0.0	0.0	1.3	7.8	13.0	11.7	13.0
80°	22.1	19.5	5.2	0.0	0.0	0.0	1.3	7.8	13.0	13.0	14.3
82.5°	14.3	10.4	0.0	0.0	0.0	0.0	2.6	10.4	14.3	15.6	15.6
85°	6.5	0.0	0.0	0.0	0.0	0.0	5.2	13.0	16.9	16.9	16.9
87.5°	0.0	0.0	0.0	0.0	0.0	2.6	9.1	15.6	19.5	19.5	19.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	5656.8	5656.8	5656.8	5656.8	5656.8	5656.8	5656.8	5656.8	5656.8	5656.8	5656.8
2.5°	4652.4	4734.3	4850.1	5028.4	5172.8	5400.5	5574.8	5812.9	6053.6	6126.4	6239.6
5°	3424.2	3529.6	3792.4	4031.8	4182.7	4664.1	4968.5	5448.6	5879.2	6086.1	6311.2
7.5°	2378.2	2503.1	2703.5	3037.8	3355.3	3746.9	4238.7	4787.7	5418.7	5714.0	6031.4
10°	1669.2	1825.3	2107.6	2382.1	2781.5	3153.6	3638.9	4245.2	4941.2	5289.9	5688.0
12.5°	1053.8	1193.0	1566.4	1874.7	2373.0	2805.0	3252.5	3801.5	4608.1	4965.9	5383.5
15°	602.4	719.5	893.8	1289.3	1842.2	2413.4	2971.5	3609.0	4437.7	4878.8	5330.2
17.5°	448.8	480.1	558.1	781.9	1285.4	1952.8	2712.6	3550.4	4553.5	5071.3	5586.5
20°	377.3	398.1	434.5	523.0	819.6	1504.0	2460.2	3560.8	4928.2	5578.7	6067.9
22.5°	338.3	351.3	381.2	438.4	559.4	1095.4	2164.9	3622.0	5382.2	6201.9	6766.5
25°	296.6	313.5	339.6	389.0	465.8	759.8	1873.4	3758.6	6018.4	6992.9	7523.7
27.5°	264.1	279.7	305.7	351.3	408.5	580.2	1533.9	3875.7	6689.7	7789.1	8223.6
30°	231.6	247.2	273.2	309.6	361.7	469.7	1168.3	3944.6	7341.5	8386.3	8720.6
32.5°	204.3	217.3	242.0	274.5	317.4	398.1	921.1	3873.1	7839.8	8928.8	9152.5
35°	176.9	192.5	213.4	243.3	281.0	339.6	766.3	3625.9	8267.9	9486.9	9567.6
37.5°	148.3	166.5	188.6	216.0	245.9	312.2	615.4	3352.7	8725.8	10182.9	10050.2
40°	124.9	141.8	162.6	192.5	219.9	286.2	473.6	3061.3	9220.2	10836.0	10577.1
42.5°	101.5	119.7	144.4	171.7	217.3	249.8	366.9	2759.4	9663.8	11404.6	11053.3
45°	80.7	96.3	122.3	157.4	216.0	214.7	283.6	2461.5	9998.2	11810.5	11408.5
47.5°	63.7	76.8	102.8	153.5	199.1	182.1	227.7	2276.8	10349.5	12176.1	11680.4
50°	50.7	63.7	88.5	160.0	174.3	156.1	191.2	2306.7	10689.0	12362.1	11792.3
52.5°	42.9	55.9	76.8	126.2	134.0	136.6	167.8	2444.6	11127.5	12561.2	12014.7
55°	37.7	49.4	65.1	88.5	104.1	122.3	153.5	2544.8	11714.2	12987.9	12505.2
57.5°	29.9	42.9	58.5	75.5	85.9	106.7	141.8	2552.6	12245.0	13535.6	13157.0
59°	27.3	39.0	54.6	71.6	76.8	96.3	134.0	2486.2	12264.5	13617.6	13456.3
60°	24.7	37.7	52.0	66.4	72.9	91.1	127.5	2409.5	12087.6	13487.5	13579.8
62.5°	20.8	32.5	45.5	53.3	62.4	75.5	110.6	2131.0	11230.2	12898.1	13350.9
65°	18.2	28.6	39.0	44.2	52.0	65.1	97.6	1705.6	10283.1	12099.3	12695.2
67.5°	16.9	26.0	33.8	37.7	45.5	59.8	87.2	1204.7	9056.3	11085.8	11710.3
70°	15.6	24.7	29.9	35.1	40.3	50.7	74.2	702.5	6976.0	9308.7	9968.3
72.5°	15.6	23.4	26.0	29.9	35.1	45.5	69.0	379.9	4769.5	7100.9	7953.0
75°	15.6	22.1	23.4	26.0	31.2	41.6	61.1	199.1	3083.4	4933.4	6088.7
77.5°	15.6	20.8	23.4	24.7	29.9	36.4	53.3	124.9	2054.3	3455.5	4115.1
80°	16.9	20.8	22.1	24.7	28.6	33.8	44.2	83.3	1207.3	2079.0	2504.4
82.5°	18.2	20.8	23.4	26.0	29.9	32.5	39.0	52.0	556.8	1375.2	1556.0
85°	19.5	22.1	24.7	27.3	31.2	32.5	36.4	37.7	91.1	620.6	839.1
87.5°	20.8	23.4	26.0	28.6	33.8	33.8	33.8	33.8	31.2	66.4	169.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: GLAN-SA5B-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5656.8	5656.8	5656.8	5656.8	5656.8	5656.8	5656.8	5656.8	5656.8	5656.8
2.5°	6382.7	6529.7	6632.5	6658.5	6584.4	6550.5	6456.9	6311.2	6222.7	6218.8
5°	6726.2	7070.9	7310.3	7350.7	7207.5	6965.6	6678.0	6307.3	6090.0	6024.9
7.5°	6667.6	7271.3	7656.4	7712.3	7471.6	7009.8	6453.0	5855.8	5619.0	5518.8
10°	6426.9	7163.3	7713.6	7802.1	7480.8	6830.3	6122.5	5456.4	5162.4	5085.6
12.5°	6221.4	6965.6	7454.7	7577.0	7333.7	6684.5	5924.8	5200.1	4885.3	4813.7
15°	6131.6	6731.4	7030.6	7093.1	7052.7	6593.5	5903.9	5161.1	4800.7	4722.6
17.5°	6221.4	6532.3	6570.1	6633.8	6723.6	6584.4	6104.3	5373.1	4984.1	4887.9
20°	6456.9	6359.3	6203.2	6230.5	6436.1	6622.1	6460.8	5842.8	5369.2	5266.5
22.5°	6857.6	6316.4	5962.5	5939.1	6199.3	6748.3	6983.8	6479.0	5930.0	5828.5
25°	7349.4	6424.3	5874.0	5823.3	6106.9	6933.0	7552.3	7258.3	6658.5	6503.7
27.5°	7885.4	6648.1	5874.0	5824.6	6099.1	7097.0	8038.9	7947.8	7413.1	7244.0
30°	8179.4	6832.9	5958.6	5902.6	6195.4	7191.9	8299.1	8560.6	7980.3	7770.9
32.5°	8442.2	7089.2	6123.8	6018.4	6397.0	7332.4	8532.0	9081.0	8431.8	8291.3
35°	8684.2	7363.7	6351.5	6229.2	6662.4	7525.0	8789.6	9627.4	9060.2	8848.1
37.5°	8950.9	7682.4	6706.7	6602.6	7106.1	7899.7	9095.3	10345.6	9678.1	9411.4
40°	9241.0	8051.9	7290.8	7246.6	7811.2	8323.8	9481.7	11111.8	10383.3	10080.2
42.5°	9536.3	8477.3	8006.4	8079.2	8610.0	8918.4	9878.5	11701.2	10960.9	10626.6
45°	9804.3	9021.1	8936.6	9297.0	9541.5	9498.6	10172.5	12116.2	11464.4	11144.4
47.5°	10142.6	9813.5	10061.9	10617.5	10624.0	10129.6	10395.0	12455.8	11897.7	11577.6
50°	10521.2	10748.9	11515.2	12081.1	11928.9	10750.2	10655.2	12857.8	12345.2	12088.9
52.5°	10959.6	11796.2	12857.8	13486.2	13131.0	11426.7	11088.4	13292.3	13055.5	12809.7
55°	11469.6	12510.4	14196.5	14697.4	14339.6	12267.1	11746.7	13881.7	13858.3	13690.4
57.5°	12046.0	13265.0	14971.9	15649.7	15331.0	13253.3	12666.5	14437.2	14348.7	14255.1
59°	12501.3	13652.7	15314.1	16016.6	15824.1	13944.1	13284.5	14783.3	14461.9	14321.4
60°	12777.1	13915.5	15440.3	16066.1	16021.8	14355.2	13676.1	14952.4	14460.6	14265.5
62.5°	13595.5	14374.8	15392.1	15846.2	16019.2	15143.7	14824.9	15138.4	14192.6	13906.4
65°	13886.9	14222.5	14594.6	14538.7	14687.0	15103.3	15558.7	14934.2	13620.2	13213.0
67.5°	13319.6	12553.4	12684.8	12311.4	12238.5	13427.6	15260.7	13935.0	12500.0	12001.7
70°	11227.6	9617.0	9550.6	9722.4	9251.4	10871.2	13703.4	12010.8	10651.3	10086.7
72.5°	8837.7	6796.4	6237.0	6869.3	6855.0	8293.9	11383.8	8522.9	7195.8	7147.7
75°	6949.9	4731.7	4152.8	4255.6	4453.3	6004.1	9066.7	5412.2	4431.2	4038.3
77.5°	4665.4	3352.7	3127.6	3001.4	3214.8	3854.9	5736.1	2935.1	2484.9	2353.5
80°	2689.2	2435.5	2765.9	2510.9	2625.4	2429.0	2853.1	1346.5	1117.6	1209.9
82.5°	1749.8	1386.9	1477.9	1098.0	1501.4	1514.4	915.9	398.1	337.0	357.8
85°	1094.1	650.5	365.6	260.2	517.8	952.3	286.2	24.7	28.6	24.7
87.5°	283.6	108.0	45.5	67.7	83.3	74.2	66.4	3.9	1.3	2.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)