

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: P459078

Luminaire Tested: **GLAN-SA5D-735-U-SLR-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459078  
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-SA5D-735-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 1200mA 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: 25917 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 - G4

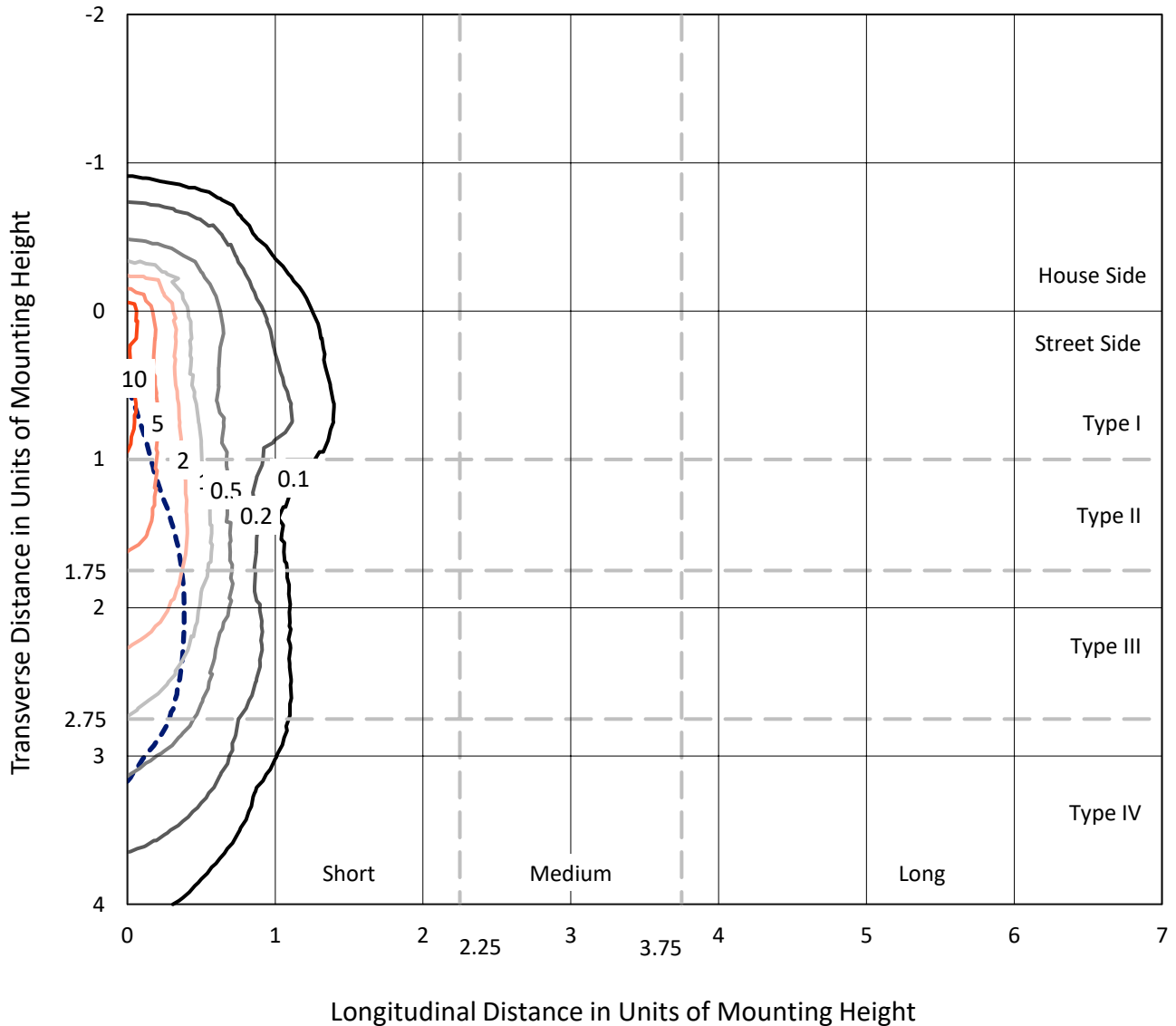
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

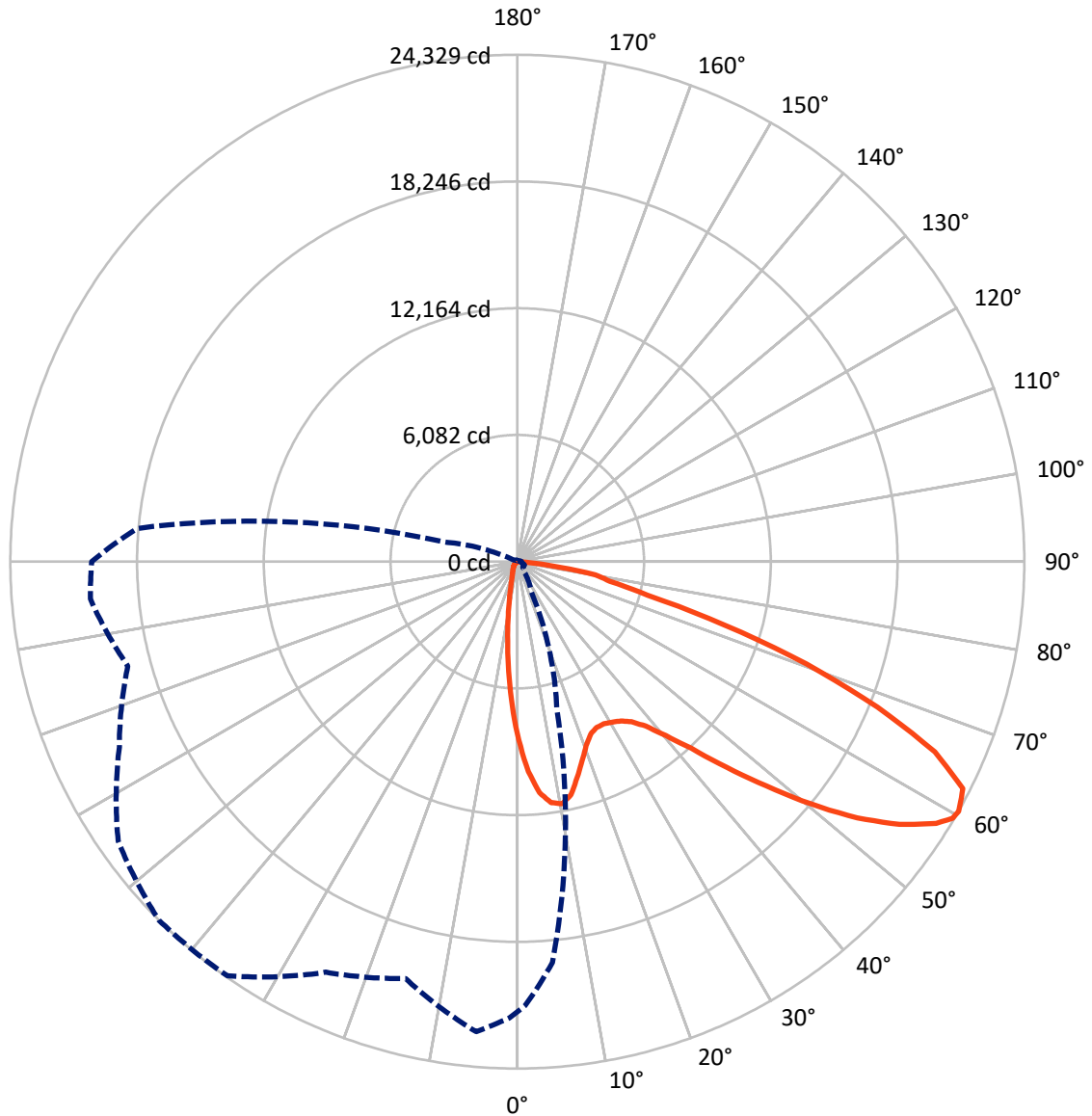
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 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
<b>House Side</b>	Lumens	3196.6	0.0	3196.6
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	22720.4	0.0	22720.4
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	25917.0	0.0	25917.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	637.1	2.5
10°-20°	1265.3	4.9
20°-30°	1855.3	7.2
30°-40°	2759.1	10.6
40°-50°	4015.4	15.5
50°-60°	5790.5	22.3
60°-70°	6368.9	24.6
70°-80°	2852.7	11.0
80°-90°	372.8	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°	25917.0	100.0
0°-180°	25917.0	100.0



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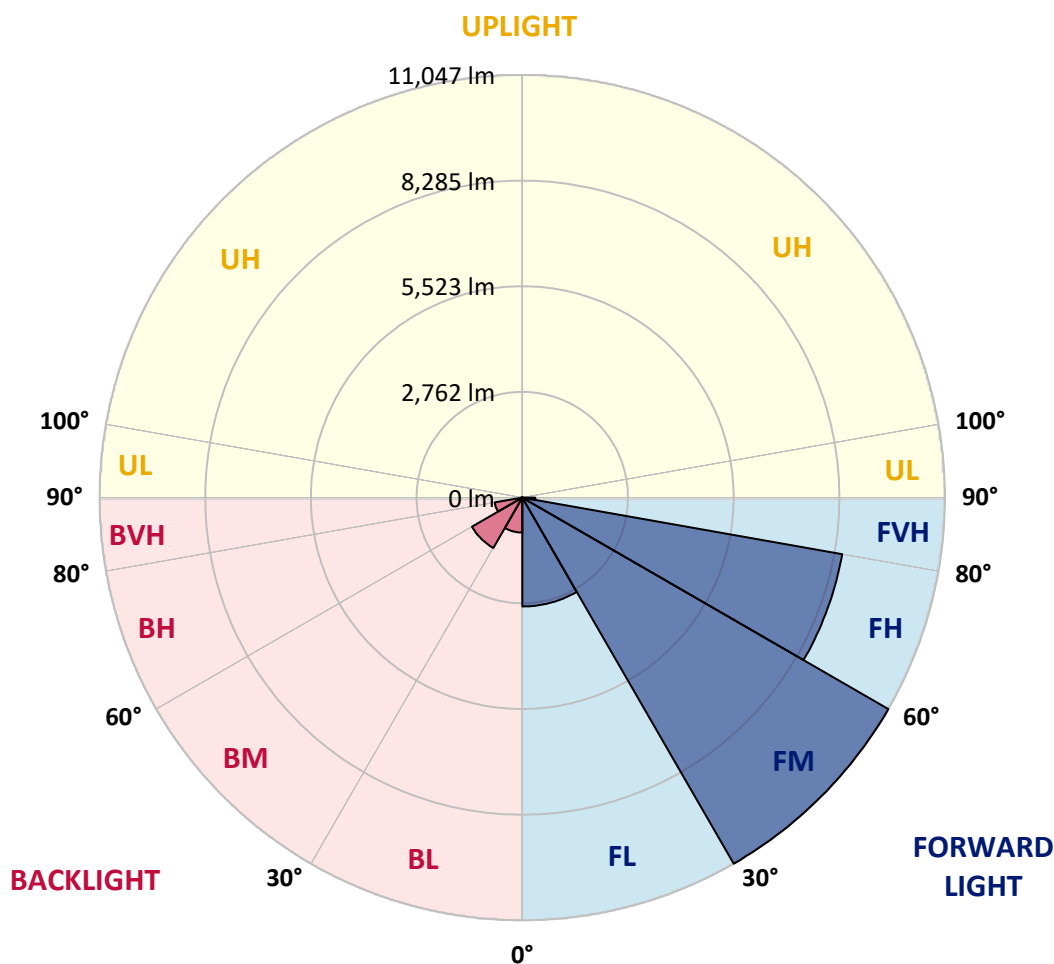
CATALOG NUMBER: GLAN-SA5D-735-U-SLR-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2844.3	11.0			
FM	(30°-60°)	11046.6	42.6			
FH	(60°-80°)	8488.6	32.8			G4/12000
FVH	(80°-90°)	340.9	1.3			G3/500
BL	(0°-30°)	913.4	3.5	B2/1000		
BM	(30°-60°)	1518.3	5.9	B2/2500		
BH	(60°-80°)	733.1	2.8	B2/1000		G2/1000
BVH	(80°-90°)	31.9	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-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8565.9	8565.9	8565.9	8565.9	8565.9	8565.9	8565.9	8565.9	8565.9	8565.9	8565.9
2.5°	9417.0	9375.6	9281.1	8993.4	8743.2	8416.2	8085.2	7825.2	7665.6	7372.1	7238.1
5°	9123.5	9143.2	8869.3	8278.3	7620.3	7171.1	6680.6	6290.5	5861.0	5589.1	5303.5
7.5°	8357.1	8317.7	8020.2	7196.7	6396.9	5746.7	5126.2	4621.8	4304.6	4050.5	3837.7
10°	7701.1	7671.5	7291.3	6231.4	5372.4	4885.8	4466.2	4024.9	3684.1	3311.7	3014.2
12.5°	7289.3	7222.3	6785.0	5677.8	4978.4	4525.3	4068.2	3609.2	3138.3	2762.1	2401.5
15°	7151.4	7054.9	6568.3	5486.7	4726.2	4151.0	3577.7	3049.7	2507.9	2092.2	1820.4
17.5°	7401.6	7242.0	6723.9	5453.2	4424.8	3662.4	2957.1	2269.5	1706.1	1388.9	1221.5
20°	7974.9	7791.7	7117.9	5419.7	4089.9	3114.7	2247.9	1603.7	1180.1	1006.7	914.1
22.5°	8826.0	8573.8	7701.1	5472.9	3780.6	2580.8	1623.4	1132.8	937.8	829.4	764.4
25°	9848.5	9637.7	8439.9	5662.0	3536.3	2161.2	1254.9	925.9	790.0	723.0	673.8
27.5°	10969.4	10632.6	9395.3	5888.6	3313.7	1836.1	1101.3	827.4	703.3	642.2	616.6
30°	11767.3	11505.3	10195.2	6046.2	3035.9	1591.8	1006.7	815.6	705.3	632.4	585.1
32.5°	12555.4	12220.5	10865.0	6119.1	2833.0	1422.4	870.8	711.2	618.6	581.2	533.9
35°	13398.6	13047.9	11532.9	6079.7	2681.3	1310.1	790.0	634.4	530.0	466.9	419.6
37.5°	14251.6	13881.2	12196.8	5937.8	2586.7	1264.8	727.0	602.8	500.4	435.4	384.2
40°	15264.2	14769.7	12819.4	5821.6	2488.2	1241.2	685.6	583.1	478.7	409.8	358.6
42.5°	16091.7	15620.8	13408.4	5760.5	2421.2	1186.0	685.6	567.4	464.9	388.1	334.9
45°	16875.8	16387.2	14044.8	5809.8	2393.7	1117.0	693.5	565.4	455.1	372.3	319.2
47.5°	17531.8	17108.2	14698.8	5995.0	2358.2	1042.2	652.1	593.0	449.2	358.6	303.4
50°	18306.0	17896.3	15563.7	6369.3	2295.2	967.3	600.9	638.3	447.2	346.7	289.6
52.5°	19397.5	18954.2	16757.6	6794.8	2194.7	853.0	553.6	632.4	439.3	327.0	275.8
55°	20731.2	20372.7	18140.6	7305.1	2056.8	725.0	478.7	561.5	415.7	293.5	252.2
57.5°	21586.2	21280.9	19176.8	7525.7	1846.0	593.0	421.6	470.9	380.2	262.0	224.6
59°	21686.7	21410.9	19393.5	7452.8	1708.1	541.8	394.0	403.9	370.4	244.3	208.8
60°	21602.0	21316.3	19306.9	7311.0	1580.0	506.3	370.4	358.6	372.3	234.4	197.0
62.5°	21058.3	20569.7	18465.6	6591.9	1381.0	464.9	329.0	293.5	329.0	210.8	175.3
65°	20008.2	19275.3	16800.9	5579.3	1302.2	441.3	279.8	246.3	250.2	185.2	151.7
67.5°	18174.1	17250.1	14584.6	4533.2	1268.7	443.3	236.4	220.6	193.1	157.6	134.0
70°	15274.1	14352.1	11702.3	3729.4	1253.0	443.3	200.9	189.1	161.5	132.0	116.2
72.5°	10823.7	9830.7	7894.1	2929.5	1128.9	441.3	171.4	171.4	132.0	110.3	94.6
75°	6115.2	6123.0	4962.6	2072.5	937.8	364.5	137.9	135.9	96.5	84.7	70.9
77.5°	3563.9	3500.8	3345.2	890.5	435.4	165.5	96.5	82.7	67.0	61.1	51.2
80°	1832.2	1507.1	1467.7	323.1	155.6	104.4	67.0	47.3	43.3	39.4	35.5
82.5°	541.8	543.7	484.6	130.0	86.7	69.0	33.5	25.6	23.6	21.7	21.7
85°	37.4	23.6	27.6	39.4	53.2	27.6	2.0	5.9	5.9	7.9	9.9
87.5°	3.9	2.0	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°	8565.9	8565.9	8565.9	8565.9	8565.9	8565.9	8565.9	8565.9	8565.9	8565.9	8565.9
2.5°	7090.3	7177.0	7015.5	7019.4	6885.5	6928.8	6771.2	6822.4	6729.8	6800.7	7009.6
5°	5335.0	5354.7	5224.7	5183.3	5203.0	5283.8	5315.3	5171.5	5232.6	5112.4	5104.5
7.5°	3758.9	3782.6	3707.7	3697.9	3839.7	3806.2	3867.3	3719.5	3579.6	3640.7	3528.4
10°	2919.7	2821.2	2667.5	2624.2	2596.6	2614.3	2614.3	2480.3	2460.6	2407.4	2488.2
12.5°	2305.0	2184.8	2039.0	1842.0	1792.8	1788.8	1715.9	1597.7	1560.3	1515.0	1582.0
15°	1674.6	1625.3	1503.2	1392.9	1280.6	1258.9	1140.7	1044.1	916.1	898.4	892.4
17.5°	1178.1	1105.2	1103.2	1040.2	975.2	931.9	821.5	711.2	661.9	656.0	656.0
20°	882.6	857.0	815.6	807.7	788.0	738.8	640.3	581.2	557.5	559.5	567.4
22.5°	742.7	725.0	687.6	669.8	661.9	618.6	545.7	506.3	494.5	494.5	496.5
25°	663.9	648.2	606.8	579.2	569.4	537.8	480.7	451.1	441.3	441.3	441.3
27.5°	604.8	585.1	541.8	518.1	500.4	464.9	429.5	399.9	390.1	390.1	392.0
30°	563.4	541.8	502.4	470.9	443.3	411.7	382.2	356.6	344.8	342.8	344.8
32.5°	508.3	488.6	449.2	429.5	398.0	360.5	336.9	313.2	301.4	303.4	301.4
35°	396.0	390.1	362.5	368.4	350.7	319.2	297.5	271.9	258.1	256.1	260.1
37.5°	360.5	336.9	305.4	307.3	301.4	289.6	254.1	226.6	216.7	216.7	218.7
40°	332.9	309.3	273.8	256.1	258.1	258.1	220.6	191.1	181.2	179.3	183.2
42.5°	309.3	285.7	246.3	216.7	208.8	218.7	187.2	157.6	147.8	143.8	147.8
45°	293.5	267.9	222.6	189.1	165.5	177.3	153.7	130.0	118.2	118.2	116.2
47.5°	277.8	254.1	204.9	163.5	137.9	132.0	126.1	104.4	92.6	90.6	92.6
50°	264.0	240.4	185.2	141.8	116.2	102.4	102.4	82.7	74.9	70.9	72.9
52.5°	250.2	224.6	167.5	126.1	100.5	82.7	72.9	67.0	61.1	59.1	61.1
55°	230.5	204.9	149.7	108.4	86.7	69.0	57.1	55.2	51.2	47.3	51.2
57.5°	206.9	183.2	132.0	92.6	69.0	53.2	47.3	45.3	41.4	39.4	39.4
59°	193.1	171.4	122.1	80.8	61.1	47.3	43.3	41.4	37.4	33.5	35.5
60°	185.2	167.5	116.2	74.9	55.2	43.3	39.4	37.4	33.5	31.5	33.5
62.5°	163.5	149.7	102.4	61.1	43.3	31.5	27.6	29.6	27.6	25.6	27.6
65°	143.8	132.0	86.7	47.3	33.5	21.7	19.7	25.6	23.6	21.7	23.6
67.5°	128.1	114.3	72.9	35.5	23.6	11.8	13.8	21.7	21.7	19.7	21.7
70°	110.3	98.5	59.1	25.6	11.8	5.9	9.9	15.8	19.7	17.7	19.7
72.5°	90.6	76.8	45.3	17.7	5.9	0.0	5.9	13.8	19.7	17.7	19.7
75°	70.9	57.1	33.5	9.9	0.0	0.0	2.0	11.8	19.7	17.7	19.7
77.5°	51.2	41.4	19.7	2.0	0.0	0.0	2.0	11.8	19.7	17.7	19.7
80°	33.5	29.6	7.9	0.0	0.0	0.0	2.0	11.8	19.7	19.7	21.7
82.5°	21.7	15.8	0.0	0.0	0.0	0.0	3.9	15.8	21.7	23.6	23.6
85°	9.9	0.0	0.0	0.0	0.0	0.0	7.9	19.7	25.6	25.6	25.6
87.5°	0.0	0.0	0.0	0.0	0.0	3.9	13.8	23.6	29.6	29.6	29.6
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°	8565.9	8565.9	8565.9	8565.9	8565.9	8565.9	8565.9	8565.9	8565.9	8565.9	8565.9
2.5°	7045.0	7169.1	7344.5	7614.4	7833.1	8177.8	8441.8	8802.3	9166.8	9277.1	9448.5
5°	5185.3	5344.8	5742.8	6105.3	6333.8	7062.8	7523.8	8250.7	8902.8	9216.1	9556.9
7.5°	3601.3	3790.4	4093.8	4600.2	5080.9	5673.9	6418.5	7249.9	8205.4	8652.6	9133.3
10°	2527.6	2764.0	3191.5	3607.2	4212.0	4775.5	5510.3	6428.4	7482.4	8010.4	8613.2
12.5°	1595.8	1806.6	2372.0	2838.9	3593.4	4247.5	4925.2	5756.6	6978.0	7519.8	8152.2
15°	912.2	1089.5	1353.4	1952.4	2789.6	3654.5	4499.7	5465.0	6720.0	7387.8	8071.4
17.5°	679.7	727.0	845.2	1184.0	1946.4	2957.1	4107.6	5376.4	6895.3	7679.4	8459.6
20°	571.3	602.8	658.0	792.0	1241.2	2277.4	3725.4	5392.1	7462.7	8447.7	9188.5
22.5°	512.2	531.9	577.2	663.9	847.1	1658.8	3278.2	5484.7	8150.3	9391.4	10246.4
25°	449.2	474.8	514.2	589.1	705.3	1150.5	2836.9	5691.6	9113.6	10589.2	11393.0
27.5°	399.9	423.6	463.0	531.9	618.6	878.7	2322.7	5868.9	10130.2	11794.9	12452.9
30°	350.7	374.3	413.7	468.9	547.7	711.2	1769.1	5973.3	11117.2	12699.2	13205.5
32.5°	309.3	329.0	366.4	415.7	480.7	602.8	1394.8	5864.9	11871.7	13520.7	13859.6
35°	267.9	291.6	323.1	368.4	425.5	514.2	1160.4	5490.6	12519.9	14365.9	14488.0
37.5°	224.6	252.2	285.7	327.0	372.3	472.8	931.9	5076.9	13213.4	15419.9	15218.9
40°	189.1	214.7	246.3	291.6	332.9	433.4	717.1	4635.6	13962.0	16408.9	16016.8
42.5°	153.7	181.2	218.7	260.1	329.0	378.3	555.6	4178.6	14633.8	17269.8	16737.9
45°	122.1	145.8	185.2	238.4	327.0	325.1	429.5	3727.4	15140.1	17884.5	17275.7
47.5°	96.5	116.2	155.6	232.5	301.4	275.8	344.8	3447.7	15672.0	18438.0	17687.4
50°	76.8	96.5	134.0	242.3	264.0	236.4	289.6	3493.0	16186.2	18719.8	17856.9
52.5°	65.0	84.7	116.2	191.1	202.9	206.9	254.1	3701.8	16850.2	19021.2	18193.8
55°	57.1	74.9	98.5	134.0	157.6	185.2	232.5	3853.5	17738.7	19667.4	18936.5
57.5°	45.3	65.0	88.7	114.3	130.0	161.5	214.7	3865.3	18542.5	20496.8	19923.5
59°	41.4	59.1	82.7	108.4	116.2	145.8	202.9	3764.8	18572.0	20620.9	20376.6
60°	37.4	57.1	78.8	100.5	110.3	137.9	193.1	3648.6	18304.1	20423.9	20563.8
62.5°	31.5	49.3	69.0	80.8	94.6	114.3	167.5	3227.0	17005.8	19531.4	20217.0
65°	27.6	43.3	59.1	67.0	78.8	98.5	147.8	2582.8	15571.6	18321.8	19224.1
67.5°	25.6	39.4	51.2	57.1	69.0	90.6	132.0	1824.3	13713.8	16787.1	17732.8
70°	23.6	37.4	45.3	53.2	61.1	76.8	112.3	1063.8	10563.6	14096.0	15094.8
72.5°	23.6	35.5	39.4	45.3	53.2	69.0	104.4	575.3	7222.3	10752.7	12043.1
75°	23.6	33.5	35.5	39.4	47.3	63.0	92.6	301.4	4669.1	7470.6	9220.0
77.5°	23.6	31.5	35.5	37.4	45.3	55.2	80.8	189.1	3110.8	5232.6	6231.4
80°	25.6	31.5	33.5	37.4	43.3	51.2	67.0	126.1	1828.2	3148.2	3792.4
82.5°	27.6	31.5	35.5	39.4	45.3	49.3	59.1	78.8	843.2	2082.4	2356.2
85°	29.6	33.5	37.4	41.4	47.3	49.3	55.2	57.1	137.9	939.7	1270.7
87.5°	31.5	35.5	39.4	43.3	51.2	51.2	51.2	51.2	47.3	100.5	256.1
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: P459078

CATALOG NUMBER: GLAN-SA5D-735-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8565.9	8565.9	8565.9	8565.9	8565.9	8565.9	8565.9	8565.9	8565.9	8565.9
2.5°	9665.2	9887.9	10043.5	10082.9	9970.6	9919.4	9777.5	9556.9	9422.9	9417.0
5°	10185.4	10707.4	11069.9	11131.0	10914.3	10547.8	10112.5	9551.0	9222.0	9123.5
7.5°	10096.7	11010.8	11594.0	11678.7	11314.2	10614.8	9771.6	8867.4	8508.8	8357.1
10°	9732.2	10847.3	11680.6	11814.6	11328.0	10343.0	9271.2	8262.5	7817.3	7701.1
12.5°	9421.0	10547.8	11288.6	11473.8	11105.4	10122.3	8971.8	7874.4	7397.7	7289.3
15°	9285.0	10193.2	10646.4	10740.9	10679.8	9984.4	8940.3	7815.3	7269.6	7151.4
17.5°	9421.0	9891.8	9948.9	10045.5	10181.4	9970.6	9243.6	8136.5	7547.4	7401.6
20°	9777.5	9629.8	9393.4	9434.7	9746.0	10027.7	9783.5	8847.7	8130.5	7974.9
22.5°	10384.3	9564.8	9028.9	8993.4	9387.5	10218.8	10575.4	9811.0	8979.7	8826.0
25°	11129.0	9728.3	8894.9	8818.1	9247.6	10498.6	11436.4	10991.1	10082.9	9848.5
27.5°	11940.7	10067.1	8894.9	8820.1	9235.8	10746.8	12173.2	12035.3	11225.6	10969.4
30°	12385.9	10346.9	9023.0	8938.3	9381.6	10890.6	12567.2	12963.2	12084.5	11767.3
32.5°	12783.9	10735.0	9273.2	9113.6	9686.9	11103.4	12919.8	13751.2	12768.1	12555.4
35°	13150.3	11150.7	9618.0	9432.8	10088.8	11395.0	13309.9	14578.6	13719.7	13398.6
37.5°	13554.2	11633.4	10155.8	9998.2	10760.6	11962.4	13772.9	15666.1	14655.5	14251.6
40°	13993.5	12192.9	11040.4	10973.4	11828.4	12604.6	14358.0	16826.5	15723.3	15264.2
42.5°	14440.7	12837.1	12123.9	12234.2	13038.0	13504.9	14958.9	17719.0	16598.0	16091.7
45°	14846.6	13660.6	13532.5	14078.2	14448.6	14383.6	15404.1	18347.4	17360.4	16875.8
47.5°	15358.8	14860.4	15236.7	16077.9	16087.7	15339.1	15741.0	18861.6	18016.4	17531.8
50°	15932.1	16276.9	17437.2	18294.2	18063.7	16278.8	16135.0	19470.4	18694.2	18306.0
52.5°	16596.0	17862.8	19470.4	20421.9	19884.1	17303.3	16791.1	20128.4	19769.8	19397.5
55°	17368.3	18944.4	21497.6	22256.1	21714.3	18576.0	17787.9	21020.8	20985.4	20731.2
57.5°	18241.0	20087.0	22671.8	23698.2	23215.5	20069.3	19180.8	21862.1	21728.1	21586.2
59°	18930.6	20674.1	23189.9	24253.7	23962.2	21115.4	20116.6	22386.1	21899.5	21686.7
60°	19348.2	21072.1	23381.0	24328.6	24261.6	21737.9	20709.6	22642.2	21897.5	21602.0
62.5°	20587.4	21767.5	23308.1	23995.7	24257.7	22931.8	22449.1	22923.9	21491.7	21058.3
65°	21028.7	21537.0	22100.4	22015.7	22240.3	22870.7	23560.3	22614.6	20624.8	20008.2
67.5°	20169.8	19009.4	19208.3	18642.9	18532.6	20333.3	23109.1	21101.6	18928.6	18174.1
70°	17001.9	14562.9	14462.4	14722.5	14009.3	16462.0	20750.9	18187.8	16129.1	15274.1
72.5°	13382.8	10291.7	9444.6	10402.1	10380.4	12559.3	17238.3	12906.0	10896.6	10823.7
75°	10524.2	7165.2	6288.5	6444.2	6743.6	9092.0	13729.5	8195.6	6710.1	6115.2
77.5°	7064.7	5076.9	4736.1	4545.0	4868.1	5837.4	8686.1	4444.5	3762.9	3563.9
80°	4072.2	3688.0	4188.4	3802.3	3975.6	3678.2	4320.4	2039.0	1692.3	1832.2
82.5°	2649.8	2100.1	2238.0	1662.8	2273.5	2293.2	1386.9	602.8	510.3	541.8
85°	1656.8	985.0	553.6	394.0	784.1	1442.1	433.4	37.4	43.3	37.4
87.5°	429.5	163.5	69.0	102.4	126.1	112.3	100.5	5.9	2.0	3.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)