

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: P653333

Luminaire Tested: **GLAN-SA4D-840-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P653333
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA4D-840-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14228.1 lumens
Efficiency: N/A
Efficacy: 58.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

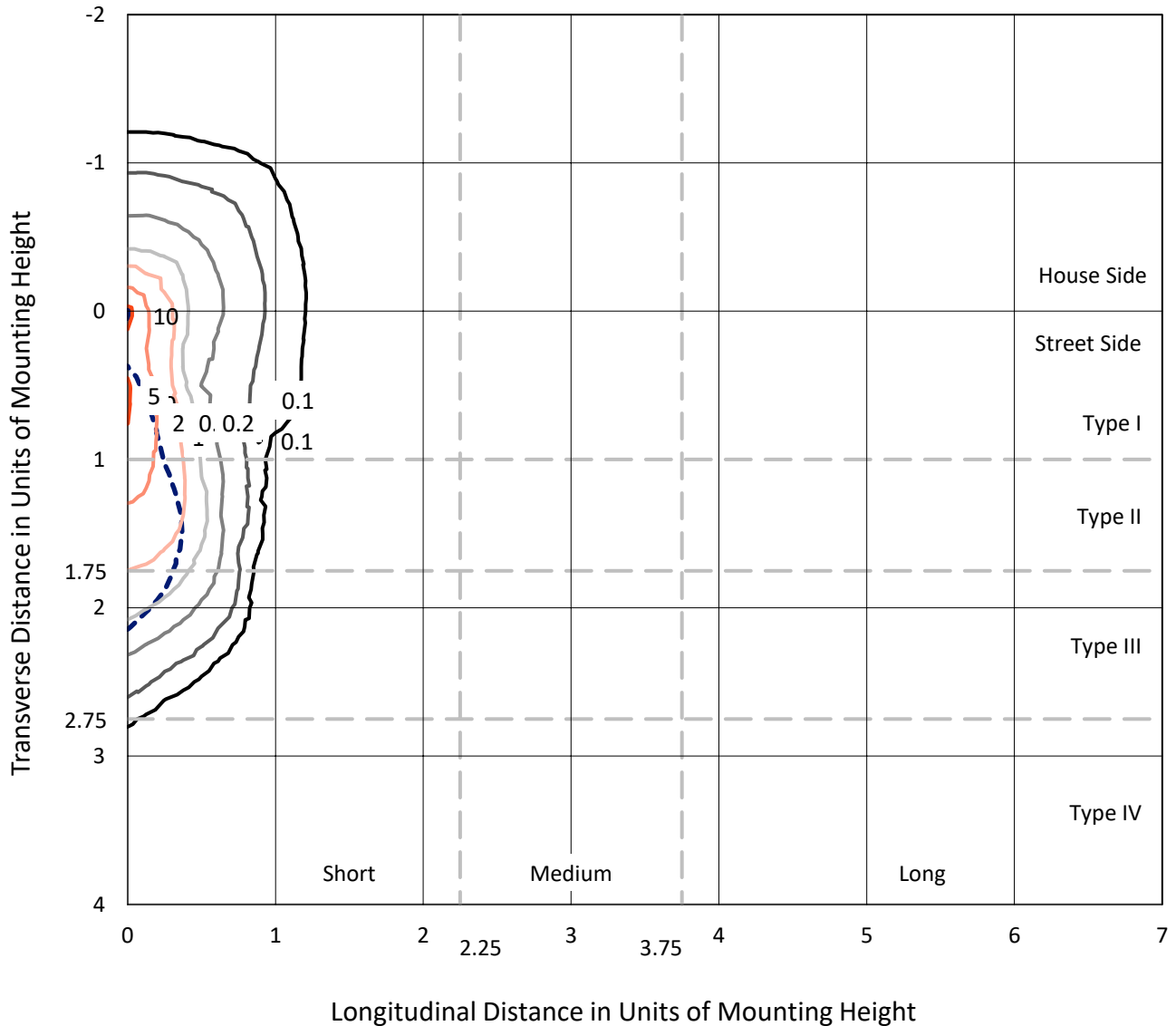
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

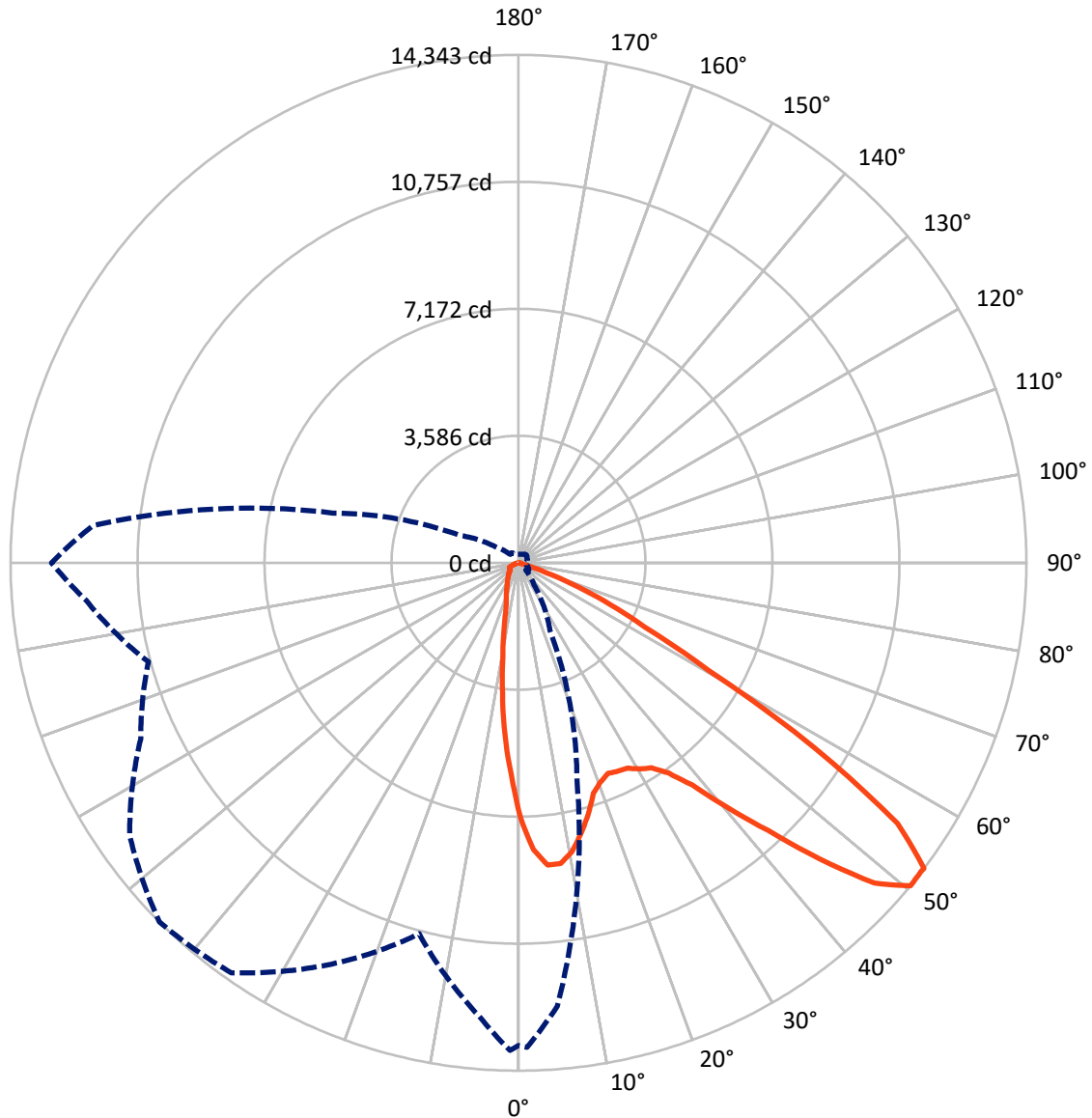
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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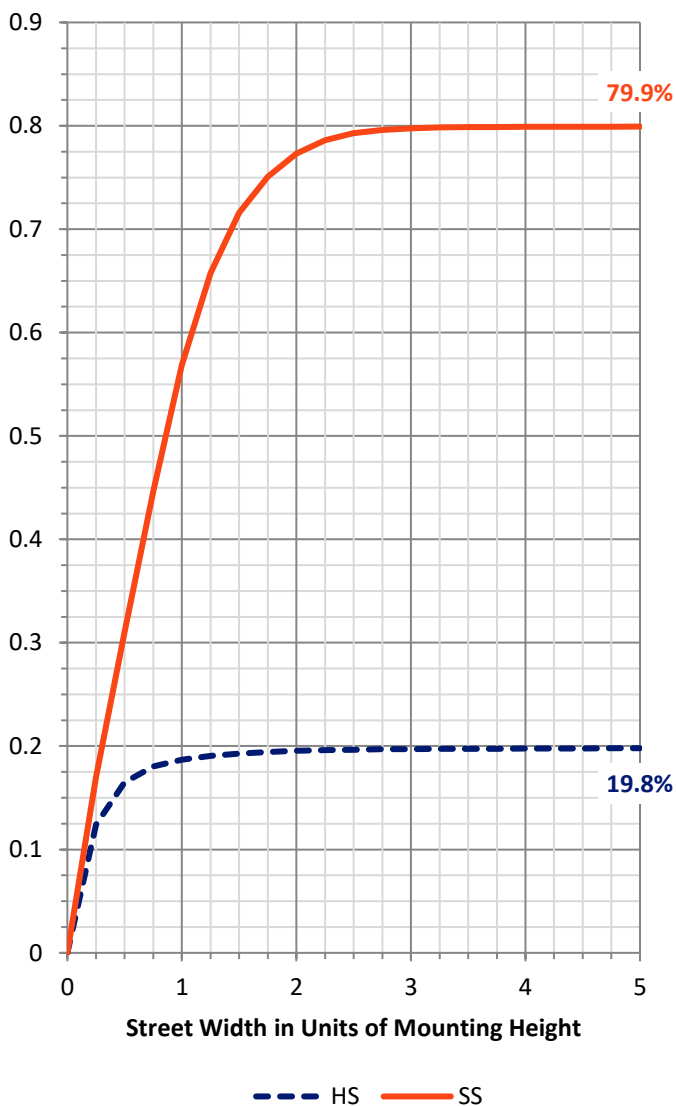
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2849.9	0.0	2849.9
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	11378.2	0.0	11378.2
	% Fixture	80.0	0.0	80.0
Total	Lumens	14228.1	0.0	14228.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	525.9	3.7
10°-20°	1045.3	7.3
20°-30°	1570.3	11.0
30°-40°	2357.0	16.6
40°-50°	3312.6	23.3
50°-60°	3573.2	25.1
60°-70°	1659.0	11.7
70°-80°	156.1	1.1
80°-90°	28.8	0.2
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°	14228.1	100.0
0°-180°	14228.1	100.0

Coefficient of Utilization



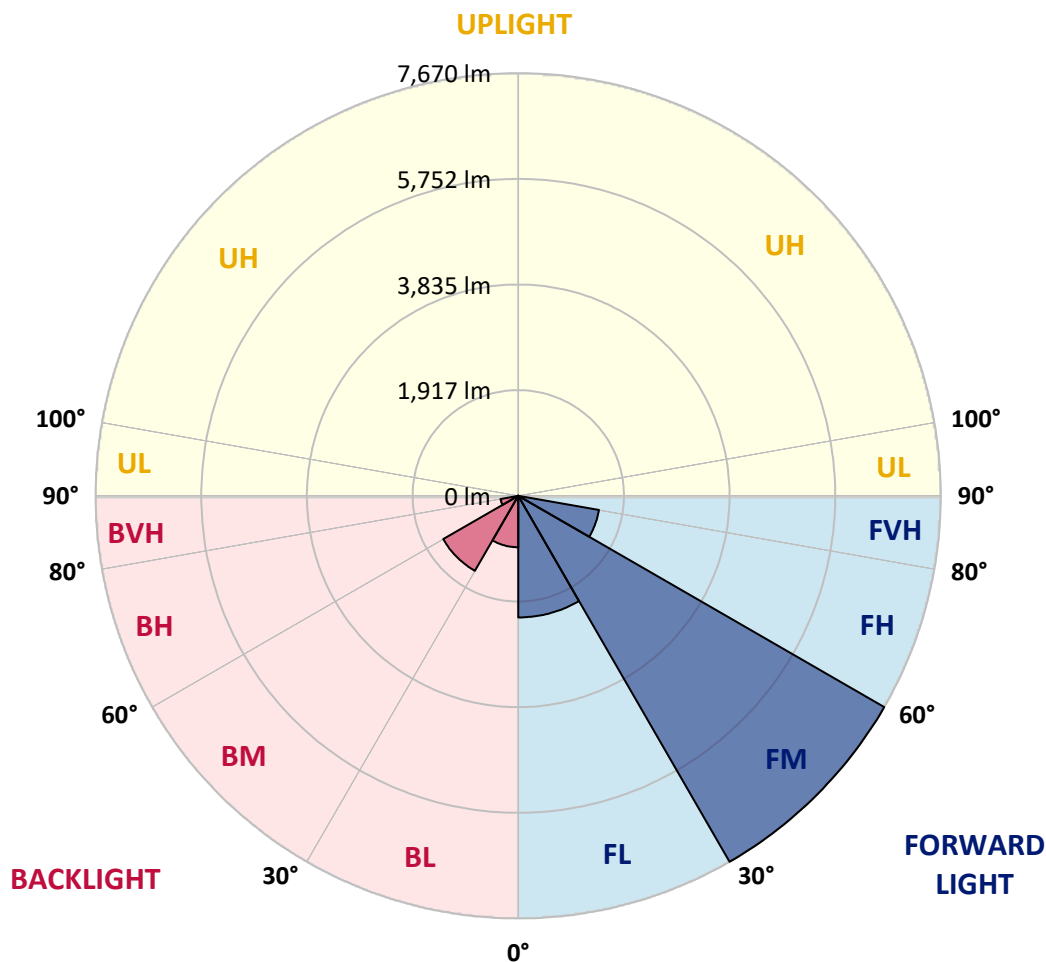
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2207.4	15.5			
FM	(30°-60°)	7670.0	53.9			
FH	(60°-80°)	1487.9	10.5			G1/1800
FVH	(80°-90°)	13.0	0.1			G1/100
BL	(0°-30°)	934.1	6.6	B2/1000		
BM	(30°-60°)	1572.7	11.1	B2/2500		
BH	(60°-80°)	327.2	2.3	B1/500		G1/500
BVH	(80°-90°)	15.8	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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7215.4	7215.4	7215.4	7215.4	7215.4	7215.4	7215.4	7215.4	7215.4	7215.4	7215.4
2.5°	7500.5	7384.8	7238.0	7116.6	6936.0	6571.7	6473.0	6354.4	6255.6	6122.9	5936.6
5°	6820.2	6783.5	6715.7	6258.5	5928.1	5487.8	5126.4	4974.0	4773.6	4609.9	4491.3
7.5°	6300.8	6154.0	5939.5	5479.3	4951.4	4480.0	4079.1	3844.8	3579.5	3489.1	3328.3
10°	5744.7	5778.5	5462.4	4815.9	4177.9	3796.9	3548.4	3322.6	3082.6	2924.6	2695.9
12.5°	5566.8	5456.7	5213.9	4415.1	3870.2	3514.5	3212.5	2933.0	2678.9	2424.9	2204.7
15°	5682.6	5513.2	5174.4	4330.4	3633.1	3189.9	2811.6	2433.3	2199.0	1874.4	1645.8
17.5°	6097.5	5962.0	5507.5	4420.7	3511.8	2879.4	2317.6	1928.1	1569.6	1276.0	1160.2
20°	6789.1	6597.2	6026.9	4536.4	3331.0	2503.9	1880.1	1400.2	1061.4	937.2	872.3
22.5°	7466.7	7362.2	6642.4	4759.5	3170.1	2170.9	1411.5	942.8	793.2	770.7	728.3
25°	8756.7	8443.4	7582.4	5163.2	3045.9	1857.5	1064.3	759.3	671.9	654.9	660.6
27.5°	9524.6	9262.0	8451.9	5431.3	2907.6	1617.6	900.5	697.3	638.0	601.3	587.2
30°	10261.4	9956.5	8883.7	5589.4	2611.2	1363.5	798.9	669.0	654.9	601.3	584.3
32.5°	10828.8	10529.5	9507.6	5826.5	2489.9	1199.8	657.7	522.3	485.5	479.9	530.7
35°	11698.2	11379.2	10041.2	5956.4	2396.7	1115.1	570.2	465.7	423.4	406.5	409.3
37.5°	12508.4	12291.0	10535.2	6007.2	2297.9	1089.7	511.0	417.8	381.1	369.8	367.0
40°	13185.9	12700.4	11003.8	6060.8	2255.6	1041.7	474.2	381.1	355.7	338.8	338.8
42.5°	13496.5	13002.4	11528.8	6029.8	2244.2	965.5	474.2	350.0	330.3	313.4	310.5
45°	13428.7	13228.3	11763.2	6015.7	2244.2	889.2	431.9	341.6	313.4	290.7	285.1
47.5°	13603.7	13341.2	12056.7	6075.0	2199.0	835.6	364.2	358.5	296.4	268.2	262.6
50°	13634.7	13685.6	12567.7	6382.7	2100.2	767.8	285.1	352.9	285.1	242.8	237.2
52°	13838.0	13521.9	12723.0	6546.3	1995.8	717.0	239.9	302.1	273.8	225.8	220.2
52.5°	13558.5	13764.6	12759.7	6605.6	2007.1	683.1	231.4	296.4	268.2	225.8	211.7
55°	13245.2	13442.8	12610.0	6732.7	1840.5	536.4	180.6	214.5	242.8	197.6	189.1
57.5°	11511.9	11712.4	10958.7	6165.3	1499.0	378.3	149.6	160.9	214.5	183.5	175.0
60°	10233.1	10089.1	9197.1	5143.4	1064.3	211.7	118.6	124.2	234.3	169.4	166.5
62.5°	9352.3	9044.7	7686.8	3971.9	649.3	141.1	93.2	96.0	180.6	158.1	158.1
65°	6919.0	6574.6	5106.7	2402.3	319.0	98.8	70.6	76.2	112.9	135.5	135.5
67.5°	3949.3	3816.6	2467.2	1084.0	132.7	62.1	53.7	59.3	87.5	110.1	104.5
70°	1815.1	1628.8	948.5	228.7	62.1	42.3	42.3	48.0	70.6	81.8	76.2
72.5°	530.7	502.5	231.4	36.7	25.4	25.4	28.3	36.7	53.7	62.1	56.4
75°	39.5	25.4	16.9	11.3	11.3	16.9	22.6	36.7	53.7	59.3	48.0
77.5°	2.9	5.6	2.9	2.9	8.5	16.9	25.4	45.2	70.6	73.4	53.7
80°	2.9	2.9	0.0	2.9	8.5	16.9	28.3	50.8	79.1	84.7	45.2
82.5°	0.0	0.0	0.0	2.9	11.3	22.6	33.9	53.7	73.4	90.3	48.0
85°	0.0	0.0	0.0	2.9	16.9	31.0	39.5	14.1	8.5	0.0	0.0
87.5°	0.0	0.0	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°	7215.4	7215.4	7215.4	7215.4	7215.4	7215.4	7215.4	7215.4	7215.4	7215.4	7215.4
2.5°	6069.3	5995.9	5967.7	5993.1	5984.6	5976.1	6131.4	6097.5	6091.9	6142.7	6131.4
5°	4556.2	4426.4	4782.0	4638.1	4787.7	4878.1	4895.0	4903.5	5007.9	4897.8	5041.7
7.5°	3246.3	3280.2	3277.5	3373.4	3545.6	3698.0	3788.4	3717.8	3712.2	3698.0	3635.9
10°	2594.2	2535.0	2523.7	2501.1	2554.8	2684.6	2794.7	2707.2	2645.1	2729.8	2704.4
12.5°	2120.0	2038.2	1993.0	1902.7	1905.5	1993.0	1993.0	1993.0	2055.1	2103.1	2139.8
15°	1626.0	1558.3	1558.3	1468.0	1448.2	1451.0	1496.1	1501.8	1600.6	1628.8	1643.0
17.5°	1137.6	1101.0	1143.3	1180.0	1157.4	1163.0	1180.0	1185.6	1199.8	1188.4	1216.7
20°	875.1	869.4	880.8	945.7	993.6	1021.9	1002.1	973.9	957.0	917.4	917.4
22.5°	742.4	753.7	773.5	827.1	889.2	906.2	883.6	818.6	767.8	762.2	765.0
25°	660.6	671.9	702.9	736.8	770.7	798.9	776.3	728.3	700.0	674.7	674.7
27.5°	609.7	615.4	632.3	657.7	686.0	708.5	700.0	674.7	643.6	632.3	606.9
30°	570.2	578.7	598.5	604.1	629.5	640.8	626.7	621.1	601.3	587.2	578.7
32.5°	550.4	547.7	561.8	567.4	570.2	578.7	561.8	570.2	567.4	544.8	536.4
35°	414.9	437.6	474.2	505.3	513.8	525.0	522.3	511.0	479.9	454.5	423.4
37.5°	372.6	386.8	406.5	431.9	465.7	479.9	474.2	446.0	409.3	392.4	386.8
40°	344.4	352.9	369.8	386.8	420.6	446.0	426.3	400.8	372.6	358.5	350.0
42.5°	319.0	321.9	330.3	347.2	372.6	412.2	378.3	344.4	333.1	324.6	319.0
45°	290.7	290.7	302.1	310.5	338.8	375.4	341.6	310.5	304.9	299.2	296.4
47.5°	268.2	271.0	276.7	288.0	310.5	335.9	313.4	288.0	273.8	271.0	265.3
50°	239.9	242.8	254.1	265.3	293.6	307.7	293.6	265.3	251.2	242.8	242.8
52°	217.4	225.8	237.2	259.7	279.5	302.1	285.1	254.1	237.2	228.7	223.0
52.5°	214.5	220.2	231.4	256.9	279.5	299.2	282.3	251.2	231.4	225.8	220.2
55°	192.0	200.4	220.2	251.2	276.7	299.2	276.7	248.4	220.2	206.0	200.4
57.5°	183.5	189.1	214.5	254.1	273.8	299.2	276.7	248.4	220.2	194.8	189.1
60°	175.0	186.3	214.5	245.6	271.0	302.1	279.5	245.6	214.5	183.5	183.5
62.5°	166.5	175.0	211.7	239.9	259.7	290.7	268.2	239.9	206.0	175.0	172.2
65°	144.0	158.1	186.3	200.4	223.0	251.2	228.7	208.9	180.6	155.2	152.5
67.5°	110.1	115.7	138.3	155.2	169.4	194.8	183.5	158.1	138.3	118.6	118.6
70°	76.2	81.8	98.8	107.3	121.4	135.5	127.0	107.3	93.2	81.8	79.1
72.5°	53.7	56.4	62.1	67.8	73.4	79.1	76.2	62.1	53.7	50.8	48.0
75°	42.3	48.0	50.8	48.0	45.2	42.3	42.3	36.7	31.0	28.3	28.3
77.5°	42.3	45.2	42.3	36.7	31.0	28.3	25.4	22.6	16.9	14.1	16.9
80°	36.7	36.7	36.7	31.0	28.3	25.4	22.6	19.8	16.9	14.1	14.1
82.5°	39.5	39.5	36.7	31.0	31.0	25.4	25.4	22.6	19.8	14.1	14.1
85°	0.0	0.0	0.0	5.6	14.1	25.4	25.4	22.6	19.8	16.9	16.9
87.5°	0.0	0.0	0.0	0.0	2.9	5.6	11.3	14.1	16.9	16.9	16.9
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°	7215.4	7215.4	7215.4	7215.4	7215.4	7215.4	7215.4	7215.4	7215.4	7215.4	7215.4
2.5°	6233.0	6340.3	6543.6	6746.8	6871.0	7017.8	7283.1	7424.3	7607.8	7698.1	7876.0
5°	5022.0	5276.1	5366.4	5597.9	5846.3	6094.7	6489.9	6924.6	7286.0	7534.4	7856.2
7.5°	3664.2	3723.4	4073.5	4228.7	4635.3	5087.0	5626.1	6173.8	6631.0	7037.6	7283.1
10°	2746.7	2964.1	3184.3	3480.6	3808.1	4273.9	4790.5	5394.6	5987.4	6394.0	6704.5
12.5°	2207.5	2379.7	2673.3	2992.3	3396.0	3703.7	4223.1	4821.5	5589.4	5987.4	6396.7
15°	1671.2	1891.3	2224.4	2554.8	2981.0	3305.6	3830.8	4584.5	5572.5	6120.1	6473.0
17.5°	1239.3	1388.9	1688.1	2057.9	2492.6	2950.0	3658.5	4559.1	5761.6	6413.7	6777.9
20°	948.5	999.3	1188.4	1518.8	1990.1	2588.6	3379.1	4669.1	6320.5	7127.9	7497.7
22.5°	767.8	790.5	863.8	1092.5	1549.8	2272.5	3246.3	4745.3	6950.0	7983.3	8477.3
25°	669.0	663.4	711.4	810.2	1211.0	1976.0	3077.0	5033.3	7720.7	8988.2	9431.4
27.5°	609.7	609.7	632.3	702.9	1005.0	1784.1	2969.7	5239.3	8497.0	9871.8	10111.8
30°	578.7	584.3	649.3	671.9	835.6	1555.4	2791.9	5448.3	9239.5	10436.4	10766.7
32.5°	536.4	513.8	499.6	556.2	702.9	1349.4	2614.0	5535.8	9840.7	11128.0	11410.3
35°	412.2	400.8	417.8	460.1	604.1	1174.4	2416.4	5634.5	10532.3	11929.7	11986.2
37.5°	372.6	369.8	381.1	417.8	508.1	1021.9	2275.2	5609.1	11060.2	12593.0	12440.7
40°	344.4	344.4	352.9	383.9	454.5	914.6	2128.5	5586.6	11571.2	13338.3	12892.4
42.5°	321.9	321.9	335.9	355.7	431.9	844.0	2018.4	5555.6	12000.3	13795.7	13157.7
45°	290.7	299.2	321.9	341.6	437.6	796.1	1936.6	5437.0	12147.1	13790.0	13030.6
47.5°	268.2	279.5	302.1	330.3	395.2	782.0	1880.1	5332.5	12096.3	13451.3	12632.6
50°	242.8	256.9	288.0	335.9	335.9	753.7	1820.8	5425.7	12059.5	13188.7	12251.5
52°	225.8	237.2	276.7	327.5	293.6	694.4	1784.1	5606.4	12209.1	13154.8	12082.1
52.5°	223.0	231.4	268.2	321.9	279.5	683.1	1758.7	5648.7	12257.2	13070.1	12197.9
55°	197.6	208.9	245.6	251.2	228.7	561.8	1676.8	5744.7	12020.1	12903.6	12087.8
57.5°	186.3	192.0	217.4	206.0	197.6	423.4	1442.5	5595.1	10676.3	11461.1	11246.5
60°	172.2	177.9	203.3	160.9	166.5	296.4	1084.0	4858.3	8573.2	9550.0	9936.8
62.5°	166.5	163.7	192.0	129.9	141.1	214.5	765.0	3949.3	6605.6	7861.8	8530.9
65°	146.8	144.0	138.3	110.1	121.4	166.5	457.3	2577.3	4655.0	5947.9	6314.9
67.5°	112.9	118.6	101.6	87.5	101.6	129.9	254.1	1154.6	2441.8	3568.2	3864.6
70°	79.1	84.7	81.8	76.2	90.3	107.3	146.8	395.2	1010.6	1874.4	2066.4
72.5°	48.0	59.3	62.1	64.9	79.1	93.2	104.5	127.0	268.2	663.4	824.3
75°	28.3	39.5	48.0	56.4	64.9	79.1	87.5	90.3	93.2	124.2	200.4
77.5°	19.8	28.3	42.3	53.7	64.9	79.1	93.2	98.8	93.2	87.5	93.2
80°	16.9	28.3	39.5	50.8	67.8	81.8	93.2	93.2	90.3	79.1	84.7
82.5°	16.9	28.3	42.3	53.7	64.9	79.1	90.3	93.2	84.7	79.1	81.8
85°	19.8	31.0	45.2	56.4	70.6	64.9	59.3	48.0	45.2	36.7	39.5
87.5°	19.8	28.3	28.3	31.0	33.9	33.9	33.9	31.0	25.4	22.6	22.6
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: P653333

CATALOG NUMBER: GLAN-SA4D-840-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7215.4	7215.4	7215.4	7215.4	7215.4	7215.4	7215.4	7215.4	7215.4	7215.4
2.5°	7884.5	8110.3	8101.8	8107.5	8073.6	7844.9	7734.8	7455.4	7534.4	7500.5
5°	8186.5	8409.5	8601.5	8578.9	8319.2	8008.7	7548.5	7113.8	6995.2	6820.2
7.5°	7884.5	8420.8	8598.6	8573.2	8189.3	7791.3	7057.3	6622.6	6416.5	6300.8
10°	7404.6	8025.6	8245.8	8290.9	8031.2	7427.1	6752.5	6055.2	5945.1	5744.7
12.5°	7130.8	7582.4	7717.9	7839.3	7749.0	7297.3	6520.9	5851.9	5699.5	5566.8
15°	6907.7	7175.9	7232.3	7370.7	7424.3	7181.6	6642.4	6072.1	5696.7	5682.6
17.5°	7113.8	7003.7	6797.6	6839.9	7009.3	7184.3	6955.7	6506.8	6142.7	6097.5
20°	7455.4	6969.8	6504.0	6608.5	6749.6	7286.0	7430.0	7113.8	6904.9	6789.1
22.5°	7847.7	7029.1	6410.9	6461.7	6729.9	7514.7	8197.8	8022.8	7633.2	7466.7
25°	8573.2	7192.8	6484.3	6518.2	6885.1	7833.7	8892.2	9022.1	8790.6	8756.7
27.5°	9281.8	7616.3	6645.2	6569.0	6964.2	8144.2	9312.8	10010.1	9603.6	9524.6
30°	9643.2	7960.7	6885.1	6755.2	7291.6	8333.3	9566.9	10653.7	10298.0	10261.4
32.5°	10196.5	8274.0	7071.5	6904.9	7475.1	8567.6	10041.2	11356.6	11012.2	10828.8
35°	10427.9	8615.5	7480.8	7286.0	8000.2	8895.1	10283.9	11983.3	11876.1	11698.2
37.5°	10874.0	8982.6	7963.5	7952.2	8635.3	9321.3	10721.5	12835.8	12816.1	12508.4
40°	10910.6	9383.5	8725.7	9081.4	9617.8	10063.7	11105.4	13073.0	13394.8	13185.9
42.5°	10967.1	10086.4	10044.0	10337.6	10797.7	10701.7	11119.5	13129.4	13620.7	13496.5
45°	10992.5	10789.3	11384.9	11926.9	12118.8	11537.3	10986.8	13022.2	13739.2	13428.7
47.5°	10789.3	11393.4	12468.9	13516.2	13572.6	12051.1	10930.4	12912.0	13809.8	13603.7
50°	10817.4	11771.6	13406.1	14343.3	14137.2	12505.6	10842.8	12844.3	13773.1	13634.7
52°	10749.7	11780.1	13538.8	14326.4	14182.4	12254.4	10693.2	12584.6	13739.2	13838.0
52.5°	10825.9	11729.3	13400.4	14337.6	14151.3	12378.5	10673.5	12728.6	13758.9	13558.5
55°	10563.4	11125.2	12590.3	12988.3	12960.1	11235.3	10066.6	12251.5	13242.4	13245.2
57.5°	9547.1	9643.2	9874.6	9866.1	9736.3	8832.9	8609.9	11266.3	11805.5	11511.9
60°	8412.4	7060.1	6436.3	6182.2	6038.2	5891.5	7616.3	10306.5	10357.3	10233.1
62.5°	7269.0	4895.0	4065.1	3994.4	4028.3	4564.7	7362.2	9925.4	9620.5	9352.3
65°	5866.1	3568.2	2952.8	2859.7	3189.9	3768.6	5959.2	7610.6	7142.0	6919.0
67.5°	3683.9	2602.7	1995.8	1820.8	2218.8	2594.2	3915.4	4782.0	4257.0	3949.3
70°	2184.9	1453.8	903.3	810.2	911.8	1383.3	2193.4	2385.4	1973.2	1815.1
72.5°	861.0	533.5	251.2	214.5	223.0	485.5	807.4	787.6	595.6	530.7
75°	231.4	160.9	87.5	70.6	59.3	90.3	129.9	84.7	31.0	39.5
77.5°	107.3	96.0	76.2	59.3	45.2	33.9	16.9	5.6	5.6	2.9
80°	93.2	81.8	70.6	59.3	45.2	28.3	14.1	2.9	2.9	2.9
82.5°	87.5	76.2	64.9	53.7	42.3	28.3	14.1	2.9	0.0	0.0
85°	36.7	48.0	53.7	50.8	45.2	28.3	14.1	2.9	0.0	0.0
87.5°	19.8	16.9	14.1	11.3	8.5	5.6	5.6	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

(END OF REPORT)