

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: McGRAW-EDISON

Report Number: P457976

Luminaire Tested: **GALN-SA9B-760-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457976
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: MCGRAW-EDISON
Catalog Number: GALN-SA9B-760-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 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: 37046 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

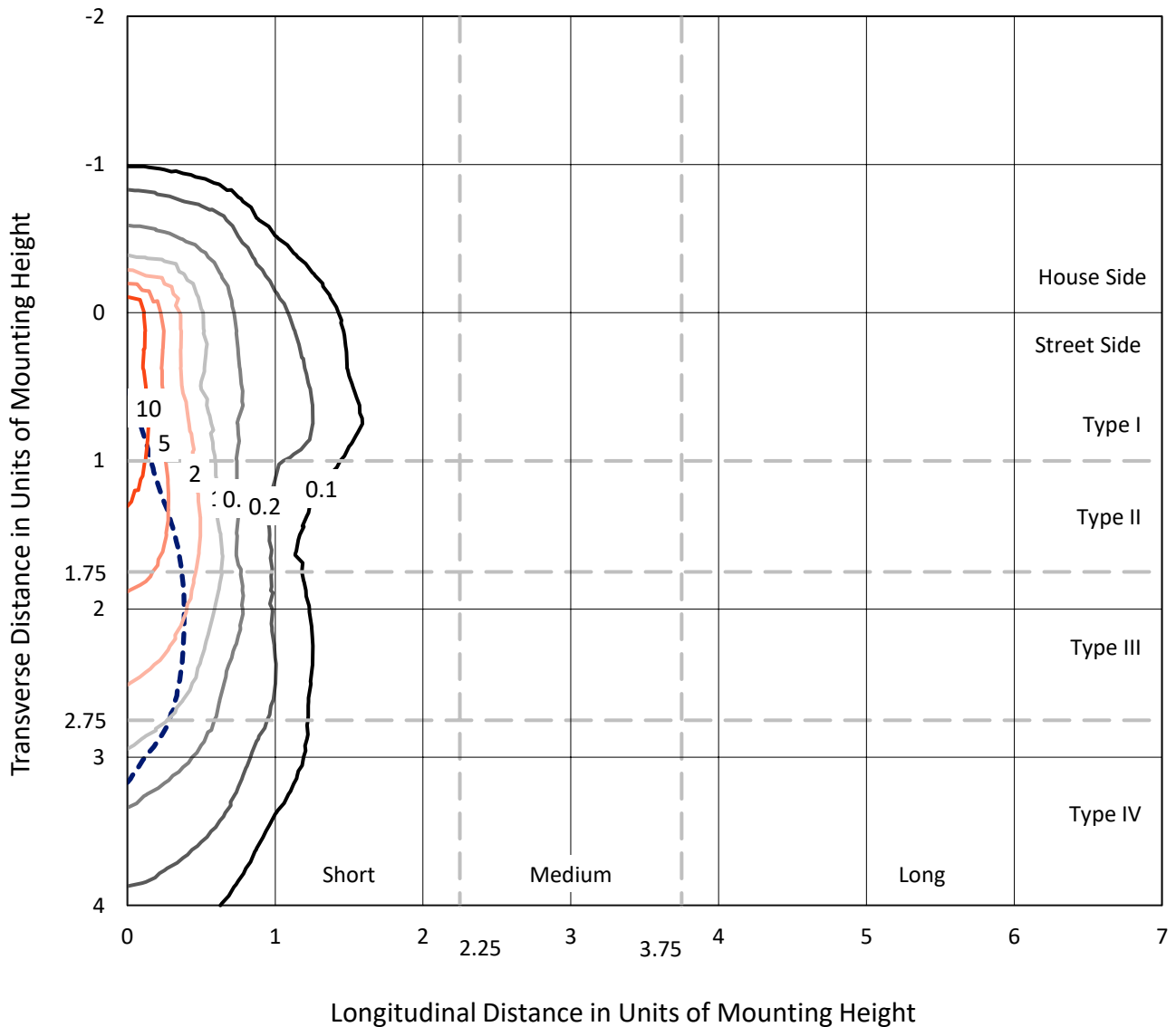
Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

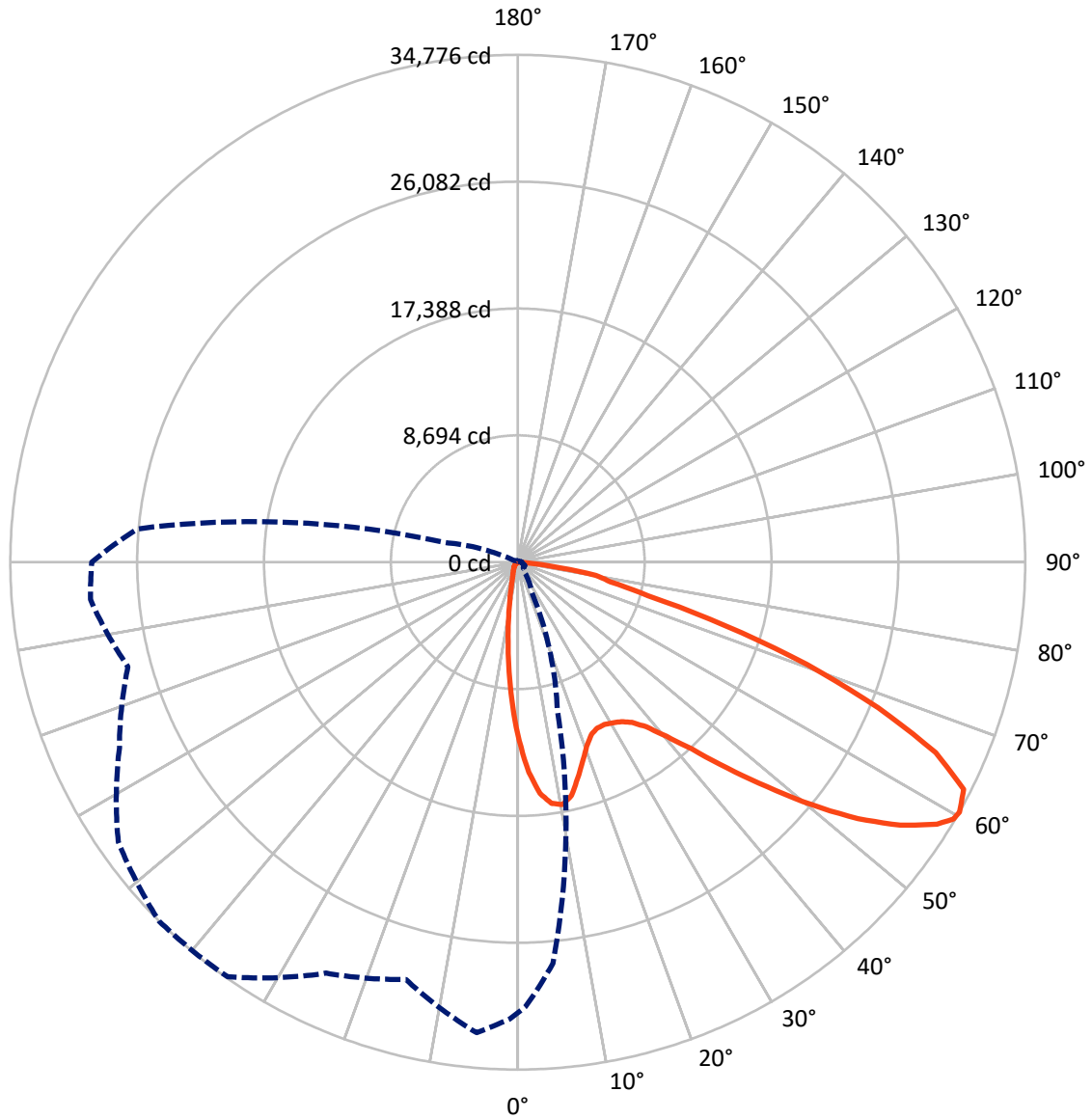
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.6 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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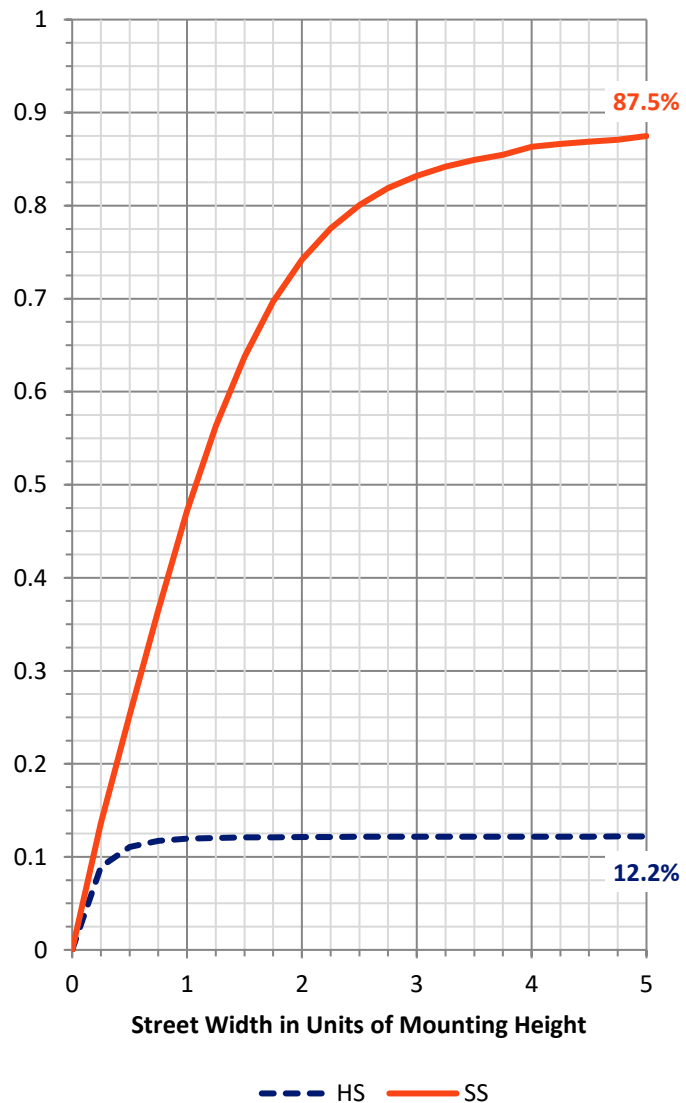
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4569.3	0.0	4569.3
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	32476.7	0.0	32476.7
	% Fixture	87.7	0.0	87.7
Total	Lumens	37046.0	0.0	37046.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	910.7	2.5
10°-20°	1808.6	4.9
20°-30°	2651.9	7.2
30°-40°	3943.9	10.6
40°-50°	5739.6	15.5
50°-60°	8276.9	22.3
60°-70°	9103.8	24.6
70°-80°	4077.7	11.0
80°-90°	532.8	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°	37046.0	100.0
0°-180°	37046.0	100.0



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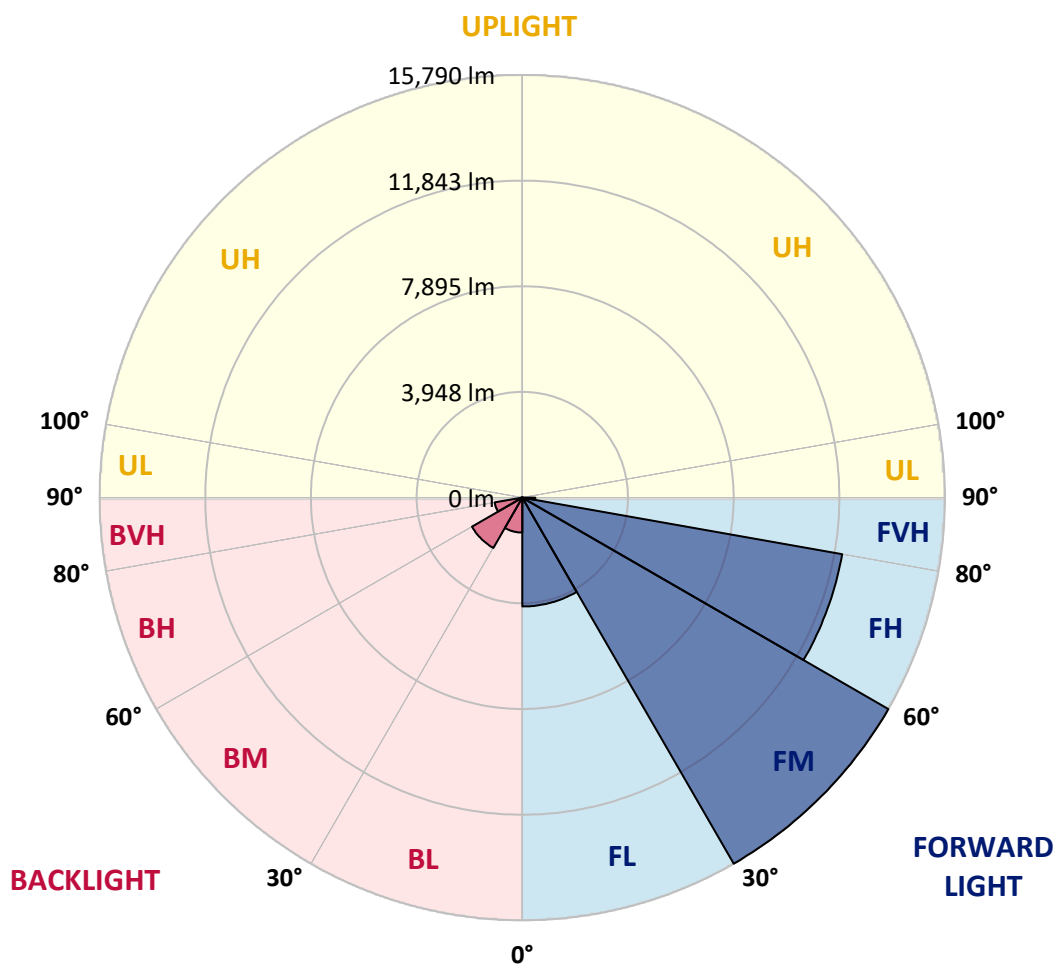
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4065.7	11.0			
FM	(30°-60°)	15790.1	42.6			
FH	(60°-80°)	12133.7	32.8			G5
FVH	(80°-90°)	487.3	1.3			G3/500
BL	(0°-30°)	1305.6	3.5	B3/2500		
BM	(30°-60°)	2170.3	5.9	B2/2500		
BH	(60°-80°)	1047.8	2.8	B3/2500		G3/2500
BVH	(80°-90°)	45.5	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12244.2	12244.2	12244.2	12244.2	12244.2	12244.2	12244.2	12244.2	12244.2	12244.2	12244.2
2.5°	13460.8	13401.6	13266.5	12855.3	12497.7	12030.2	11557.1	11185.4	10957.3	10537.7	10346.2
5°	13041.2	13069.3	12677.9	11833.1	10892.5	10250.5	9549.3	8991.7	8377.8	7989.2	7580.8
7.5°	11945.7	11889.4	11464.2	10287.1	9143.7	8214.4	7327.4	6606.5	6153.1	5789.8	5485.7
10°	11008.0	10965.7	10422.2	8907.2	7679.4	6983.8	6384.0	5753.2	5266.0	4733.8	4308.6
12.5°	10419.4	10323.7	9698.5	8115.9	7116.2	6468.5	5815.2	5159.0	4486.0	3948.1	3432.8
15°	10222.3	10084.3	9388.7	7842.7	6755.7	5933.4	5114.0	4359.3	3584.8	2990.7	2602.0
17.5°	10579.9	10351.8	9611.2	7794.9	6324.9	5235.1	4226.9	3244.1	2438.7	1985.3	1746.0
20°	11399.4	11137.5	10174.4	7747.0	5846.1	4452.2	3213.1	2292.3	1686.8	1439.0	1306.7
22.5°	12616.0	12255.5	11008.0	7823.0	5404.0	3689.0	2320.4	1619.2	1340.4	1185.6	1092.6
25°	14077.5	13776.2	12064.0	8093.4	5054.8	3089.2	1793.8	1323.5	1129.2	1033.5	963.1
27.5°	15679.8	15198.3	13429.8	8417.2	4736.6	2624.6	1574.2	1182.7	1005.3	918.0	881.4
30°	16820.3	16445.8	14573.1	8642.5	4339.5	2275.4	1439.0	1165.8	1008.1	904.0	836.4
32.5°	17946.8	17468.0	15530.6	8746.7	4049.5	2033.2	1244.7	1016.6	884.2	830.7	763.2
35°	19152.0	18650.8	16485.2	8690.4	3832.7	1872.7	1129.2	906.8	757.5	667.4	599.8
37.5°	20371.4	19842.0	17434.2	8487.6	3697.5	1807.9	1039.1	861.7	715.3	622.3	549.1
40°	21818.8	21112.0	18324.1	8321.5	3556.7	1774.1	980.0	833.6	684.3	585.7	512.5
42.5°	23001.6	22328.5	19166.1	8234.2	3460.9	1695.3	980.0	811.0	664.6	554.8	478.7
45°	24122.4	23424.0	20075.7	8304.6	3421.5	1596.7	991.3	808.2	650.5	532.2	456.2
47.5°	25060.1	24454.7	21010.6	8569.3	3370.8	1489.7	932.1	847.6	642.1	512.5	433.7
50°	26166.8	25581.1	22246.9	9104.3	3280.7	1382.7	858.9	912.4	639.2	495.6	414.0
52.5°	27726.9	27093.3	23953.4	9712.6	3137.1	1219.4	791.3	904.0	628.0	467.5	394.2
55°	29633.4	29120.9	25930.3	10442.0	2940.0	1036.3	684.3	802.6	594.2	419.6	360.5
57.5°	30855.6	30419.1	27411.5	10757.4	2638.6	847.6	602.6	673.0	543.5	374.5	321.0
59°	30999.2	30604.9	27721.3	10653.2	2441.5	774.4	563.2	577.3	529.4	349.2	298.5
60°	30878.1	30469.8	27597.4	10450.4	2258.5	723.7	529.4	512.5	532.2	335.1	281.6
62.5°	30100.9	29402.5	26394.9	9422.5	1974.1	664.6	470.3	419.6	470.3	301.3	250.6
65°	28599.9	27552.3	24015.4	7975.1	1861.4	630.8	399.9	352.0	357.6	264.7	216.8
67.5°	25978.2	24657.4	20847.3	6479.8	1813.5	633.6	337.9	315.4	276.0	225.3	191.5
70°	21832.9	20515.0	16727.4	5330.8	1791.0	633.6	287.2	270.3	230.9	188.7	166.1
72.5°	15471.4	14052.1	11284.0	4187.5	1613.6	630.8	245.0	245.0	188.7	157.7	135.2
75°	8741.1	8752.3	7093.7	2962.5	1340.4	521.0	197.1	194.3	138.0	121.1	101.4
77.5°	5094.3	5004.1	4781.7	1272.9	622.3	236.5	138.0	118.3	95.7	87.3	73.2
80°	2618.9	2154.3	2098.0	461.8	222.5	149.3	95.7	67.6	62.0	56.3	50.7
82.5°	774.4	777.2	692.8	185.9	123.9	98.6	47.9	36.6	33.8	31.0	31.0
85°	53.5	33.8	39.4	56.3	76.0	39.4	2.8	8.4	8.4	11.3	14.1
87.5°	5.6	2.8	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°	12244.2	12244.2	12244.2	12244.2	12244.2	12244.2	12244.2	12244.2	12244.2	12244.2	12244.2
2.5°	10135.0	10258.9	10028.0	10033.6	9842.1	9904.1	9678.8	9752.0	9619.7	9721.0	10019.5
5°	7625.9	7654.1	7468.2	7409.1	7437.2	7552.7	7597.7	7392.2	7479.5	7307.7	7296.4
7.5°	5373.0	5406.8	5299.8	5285.7	5488.5	5440.6	5527.9	5316.7	5116.8	5204.1	5043.6
10°	4173.4	4032.6	3812.9	3751.0	3711.6	3736.9	3736.9	3545.4	3517.3	3441.2	3556.7
12.5°	3294.8	3123.0	2914.6	2633.0	2562.6	2557.0	2452.8	2283.8	2230.3	2165.6	2261.3
15°	2393.7	2323.3	2148.7	1991.0	1830.4	1799.5	1630.5	1492.5	1309.5	1284.1	1275.7
17.5°	1684.0	1579.8	1577.0	1486.9	1394.0	1332.0	1174.3	1016.6	946.2	937.7	937.7
20°	1261.6	1225.0	1165.8	1154.6	1126.4	1056.0	915.2	830.7	796.9	799.8	811.0
22.5°	1061.7	1036.3	982.8	957.5	946.2	884.2	780.0	723.7	706.8	706.8	709.6
25°	949.0	926.5	867.3	827.9	813.8	768.8	687.1	644.9	630.8	630.8	630.8
27.5°	864.5	836.4	774.4	740.6	715.3	664.6	613.9	571.7	557.6	557.6	560.4
30°	805.4	774.4	718.1	673.0	633.6	588.6	546.3	509.7	492.8	490.0	492.8
32.5°	726.5	698.4	642.1	613.9	568.8	515.3	481.5	447.8	430.9	433.7	430.9
35°	566.0	557.6	518.2	526.6	501.3	456.2	425.2	388.6	368.9	366.1	371.7
37.5°	515.3	481.5	436.5	439.3	430.9	414.0	363.3	323.8	309.8	309.8	312.6
40°	475.9	442.1	391.4	366.1	368.9	368.9	315.4	273.2	259.1	256.3	261.9
42.5°	442.1	408.3	352.0	309.8	298.5	312.6	267.5	225.3	211.2	205.6	211.2
45°	419.6	383.0	318.2	270.3	236.5	253.4	219.7	185.9	169.0	169.0	166.1
47.5°	397.1	363.3	292.9	233.7	197.1	188.7	180.2	149.3	132.4	129.5	132.4
50°	377.4	343.6	264.7	202.8	166.1	146.4	146.4	118.3	107.0	101.4	104.2
52.5°	357.6	321.0	239.4	180.2	143.6	118.3	104.2	95.7	87.3	84.5	87.3
55°	329.5	292.9	214.0	154.9	123.9	98.6	81.7	78.8	73.2	67.6	73.2
57.5°	295.7	261.9	188.7	132.4	98.6	76.0	67.6	64.8	59.1	56.3	56.3
59°	276.0	245.0	174.6	115.5	87.3	67.6	62.0	59.1	53.5	47.9	50.7
60°	264.7	239.4	166.1	107.0	78.8	62.0	56.3	53.5	47.9	45.1	47.9
62.5°	233.7	214.0	146.4	87.3	62.0	45.1	39.4	42.2	39.4	36.6	39.4
65°	205.6	188.7	123.9	67.6	47.9	31.0	28.2	36.6	33.8	31.0	33.8
67.5°	183.0	163.3	104.2	50.7	33.8	16.9	19.7	31.0	31.0	28.2	31.0
70°	157.7	140.8	84.5	36.6	16.9	8.4	14.1	22.5	28.2	25.3	28.2
72.5°	129.5	109.8	64.8	25.3	8.4	0.0	8.4	19.7	28.2	25.3	28.2
75°	101.4	81.7	47.9	14.1	0.0	0.0	2.8	16.9	28.2	25.3	28.2
77.5°	73.2	59.1	28.2	2.8	0.0	0.0	2.8	16.9	28.2	25.3	28.2
80°	47.9	42.2	11.3	0.0	0.0	0.0	2.8	16.9	28.2	28.2	31.0
82.5°	31.0	22.5	0.0	0.0	0.0	0.0	5.6	22.5	31.0	33.8	33.8
85°	14.1	0.0	0.0	0.0	0.0	0.0	11.3	28.2	36.6	36.6	36.6
87.5°	0.0	0.0	0.0	0.0	0.0	5.6	19.7	33.8	42.2	42.2	42.2
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°	12244.2	12244.2	12244.2	12244.2	12244.2	12244.2	12244.2	12244.2	12244.2	12244.2	12244.2
2.5°	10070.2	10247.6	10498.3	10884.1	11196.7	11689.5	12066.8	12582.2	13103.1	13260.8	13505.8
5°	7411.9	7640.0	8208.8	8727.0	9053.6	10095.6	10754.5	11793.7	12725.8	13173.5	13660.7
7.5°	5147.8	5418.1	5851.8	6575.5	7262.6	8110.3	9174.7	10363.1	11728.9	12368.1	13055.3
10°	3613.0	3950.9	4562.0	5156.2	6020.7	6826.1	7876.5	9188.8	10695.4	11450.1	12311.8
12.5°	2281.0	2582.3	3390.5	4057.9	5136.5	6071.4	7040.2	8228.5	9974.5	10748.9	11652.9
15°	1303.8	1557.3	1934.6	2790.7	3987.5	5223.8	6431.9	7811.8	9605.6	10560.2	11537.4
17.5°	971.5	1039.1	1208.1	1692.5	2782.3	4226.9	5871.5	7685.0	9856.2	10977.0	12092.2
20°	816.7	861.7	940.6	1132.1	1774.1	3255.4	5325.2	7707.6	10667.2	12075.3	13134.1
22.5°	732.2	760.3	825.1	949.0	1210.9	2371.1	4685.9	7839.9	11650.0	13424.2	14646.3
25°	642.1	678.7	735.0	842.0	1008.1	1644.6	4055.1	8135.6	13027.1	15136.3	16285.3
27.5°	571.7	605.5	661.8	760.3	884.2	1256.0	3320.1	8389.0	14480.2	16859.8	17800.3
30°	501.3	535.1	591.4	670.2	782.9	1016.6	2528.8	8538.3	15891.0	18152.3	18876.1
32.5°	442.1	470.3	523.8	594.2	687.1	861.7	1993.8	8383.4	16969.6	19326.6	19811.0
35°	383.0	416.8	461.8	526.6	608.3	735.0	1658.7	7848.4	17896.1	20534.7	20709.3
37.5°	321.0	360.5	408.3	467.5	532.2	675.9	1332.0	7257.0	18887.3	22041.3	21754.1
40°	270.3	307.0	352.0	416.8	475.9	619.5	1025.0	6626.2	19957.4	23455.0	22894.6
42.5°	219.7	259.1	312.6	371.7	470.3	540.7	794.1	5972.9	20917.7	24685.6	23925.3
45°	174.6	208.4	264.7	340.7	467.5	464.7	613.9	5328.0	21641.4	25564.2	24694.0
47.5°	138.0	166.1	222.5	332.3	430.9	394.2	492.8	4928.1	22401.8	26355.5	25282.6
50°	109.8	138.0	191.5	346.4	377.4	337.9	414.0	4992.9	23136.8	26758.2	25524.8
52.5°	92.9	121.1	166.1	273.2	290.1	295.7	363.3	5291.4	24085.8	27189.1	26006.3
55°	81.7	107.0	140.8	191.5	225.3	264.7	332.3	5508.2	25355.8	28112.7	27068.0
57.5°	64.8	92.9	126.7	163.3	185.9	230.9	307.0	5525.1	26504.8	29298.3	28478.8
59°	59.1	84.5	118.3	154.9	166.1	208.4	290.1	5381.5	26547.0	29475.7	29126.5
60°	53.5	81.7	112.6	143.6	157.7	197.1	276.0	5215.3	26164.0	29194.1	29394.0
62.5°	45.1	70.4	98.6	115.5	135.2	163.3	239.4	4612.7	24308.2	27918.4	28898.4
65°	39.4	62.0	84.5	95.7	112.6	140.8	211.2	3691.9	22258.1	26189.4	27479.1
67.5°	36.6	56.3	73.2	81.7	98.6	129.5	188.7	2607.7	19602.6	23995.7	25347.4
70°	33.8	53.5	64.8	76.0	87.3	109.8	160.5	1520.7	15099.7	20148.9	21576.7
72.5°	33.8	50.7	56.3	64.8	76.0	98.6	149.3	822.3	10323.7	15370.1	17214.6
75°	33.8	47.9	50.7	56.3	67.6	90.1	132.4	430.9	6674.1	10678.5	13179.2
77.5°	33.8	45.1	50.7	53.5	64.8	78.8	115.5	270.3	4446.6	7479.5	8907.2
80°	36.6	45.1	47.9	53.5	62.0	73.2	95.7	180.2	2613.3	4500.1	5420.9
82.5°	39.4	45.1	50.7	56.3	64.8	70.4	84.5	112.6	1205.3	2976.6	3368.0
85°	42.2	47.9	53.5	59.1	67.6	70.4	78.8	81.7	197.1	1343.3	1816.4
87.5°	45.1	50.7	56.3	62.0	73.2	73.2	73.2	73.2	67.6	143.6	366.1
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: P457976

CATALOG NUMBER: GALN-SA9B-760-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	12244.2	12244.2	12244.2	12244.2	12244.2	12244.2	12244.2	12244.2	12244.2	12244.2
2.5°	13815.6	14133.8	14356.3	14412.6	14252.1	14178.9	13976.1	13660.7	13469.2	13460.8
5°	14559.0	15305.3	15823.4	15910.7	15601.0	15077.2	14454.8	13652.3	13182.0	13041.2
7.5°	14432.3	15739.0	16572.5	16693.6	16172.6	15172.9	13967.7	12675.1	12162.6	11945.7
10°	13911.3	15505.2	16696.4	16887.9	16192.3	14784.3	13252.4	11810.6	11174.1	11008.0
12.5°	13466.4	15077.2	16136.0	16400.7	15874.1	14468.9	12824.3	11255.8	10574.3	10419.4
15°	13272.1	14570.3	15218.0	15353.2	15265.9	14271.8	12779.3	11171.3	10391.3	10222.3
17.5°	13466.4	14139.4	14221.1	14359.1	14553.4	14252.1	13213.0	11630.3	10788.3	10579.9
20°	13976.1	13764.9	13427.0	13486.1	13931.1	14333.7	13984.6	12646.9	11621.9	11399.4
22.5°	14843.5	13672.0	12906.0	12855.3	13418.5	14606.9	15116.6	14024.0	12835.6	12616.0
25°	15907.9	13905.7	12714.5	12604.7	13218.6	15006.8	16347.2	15710.8	14412.6	14077.5
27.5°	17068.1	14390.1	12714.5	12607.5	13201.7	15361.6	17400.4	17203.3	16045.9	15679.8
30°	17704.6	14790.0	12897.6	12776.5	13410.1	15567.2	17963.7	18529.7	17273.7	16820.3
32.5°	18273.4	15344.7	13255.2	13027.1	13846.6	15871.3	18467.7	19656.1	18250.9	17946.8
35°	18797.2	15938.9	13748.0	13483.3	14421.0	16288.1	19025.3	20838.9	19611.0	19152.0
37.5°	19374.5	16628.8	14516.8	14291.5	15381.3	17099.1	19687.1	22393.3	20948.7	20371.4
40°	20002.5	17428.6	15781.2	15685.5	16907.6	18017.2	20523.5	24052.0	22475.0	21818.8
42.5°	20641.7	18349.5	17330.0	17487.7	18636.7	19304.1	21382.3	25327.7	23725.3	23001.6
45°	21221.8	19526.6	19343.5	20123.6	20653.0	20560.1	22018.8	26226.0	24815.1	24122.4
47.5°	21954.0	21241.5	21779.4	22981.9	22996.0	21925.8	22500.3	26961.0	25752.9	25060.1
50°	22773.5	23266.3	24925.0	26149.9	25820.5	23269.1	23063.5	27831.1	26721.6	26166.8
52.5°	23722.5	25533.2	27831.1	29191.3	28422.5	24733.5	24001.3	28771.7	28259.2	27726.9
55°	24826.4	27079.2	30728.9	31813.0	31038.6	26552.6	25426.2	30047.4	29996.7	29633.4
57.5°	26073.9	28712.6	32407.2	33874.4	33184.5	28687.2	27417.2	31249.8	31058.3	30855.6
59°	27059.5	29551.7	33147.9	34668.5	34251.7	30182.5	28754.8	31998.9	31303.3	30999.2
60°	27656.5	30120.6	33421.0	34775.5	34679.8	31072.4	29602.4	32365.0	31300.5	30878.1
62.5°	29427.8	31114.7	33316.8	34299.6	34674.2	32778.9	32089.0	32767.7	30720.4	30100.9
65°	30058.6	30785.2	31590.6	31469.5	31790.5	32691.7	33677.3	32325.6	29481.3	28599.9
67.5°	28830.8	27172.2	27456.6	26648.4	26490.7	29064.6	33032.4	30162.8	27056.7	25978.2
70°	24302.6	20816.3	20672.7	21044.4	20025.0	23531.0	29661.6	25997.9	23055.1	21832.9
72.5°	19129.5	14711.1	13500.2	14868.8	14837.8	17952.4	24640.5	18448.0	15575.6	15471.4
75°	15043.4	10242.0	8988.9	9211.3	9639.4	12996.1	19625.1	11714.8	9591.5	8741.1
77.5°	10098.4	7257.0	6769.8	6496.7	6958.5	8344.0	12416.0	6353.0	5378.7	5094.3
80°	5820.8	5271.7	5986.9	5435.0	5682.8	5257.6	6175.6	2914.6	2419.0	2618.9
82.5°	3787.6	3001.9	3199.0	2376.8	3249.7	3277.9	1982.5	861.7	729.4	774.4
85°	2368.3	1408.0	791.3	563.2	1120.8	2061.4	619.5	53.5	62.0	53.5
87.5°	613.9	233.7	98.6	146.4	180.2	160.5	143.6	8.4	2.8	5.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)