

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: P457860

Luminaire Tested: **GALN-SA9B-727-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457860
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-727-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 30982 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

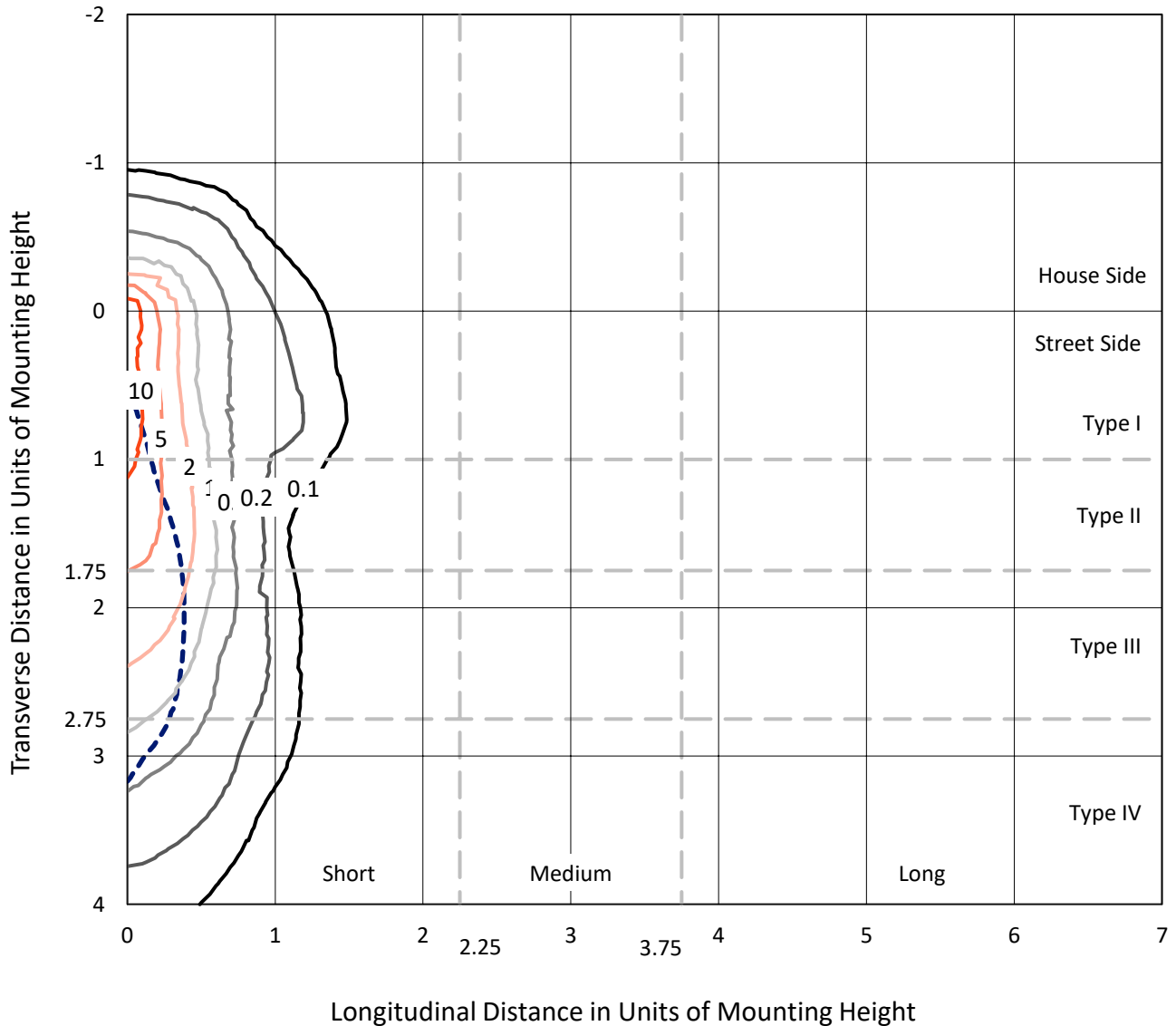
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

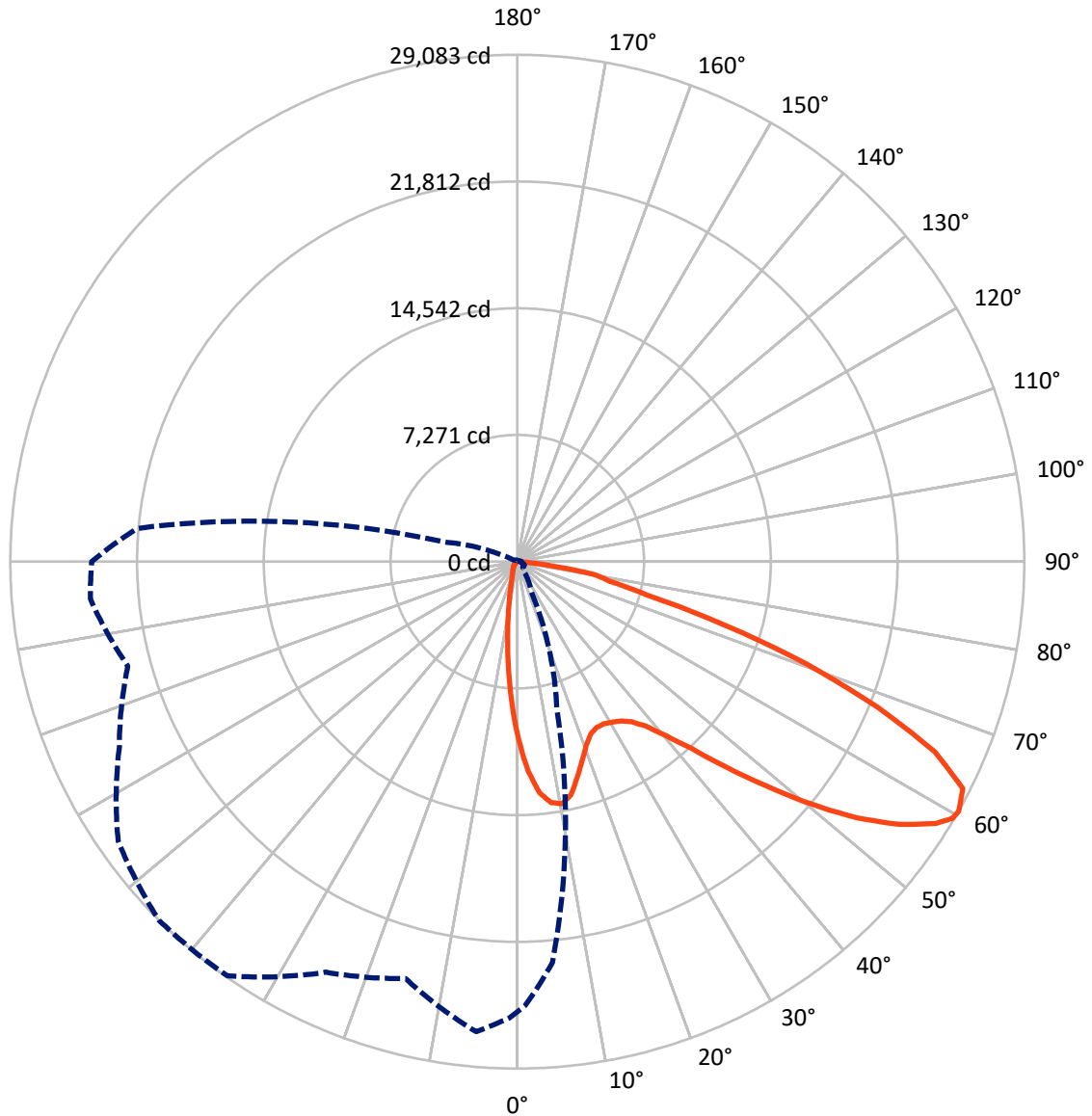
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.4 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	3821.3	0.0	3821.3
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	27160.7	0.0	27160.7
	% Fixture	87.7	0.0	87.7
Total	Lumens	30982.0	0.0	30982.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	761.6	2.5
10°-20°	1512.6	4.9
20°-30°	2217.9	7.2
30°-40°	3298.3	10.6
40°-50°	4800.1	15.5
50°-60°	6922.1	22.3
60°-70°	7613.6	24.6
70°-80°	3410.3	11.0
80°-90°	445.6	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°	30982.0	100.0
0°-180°	30982.0	100.0

Coefficient of Utilization



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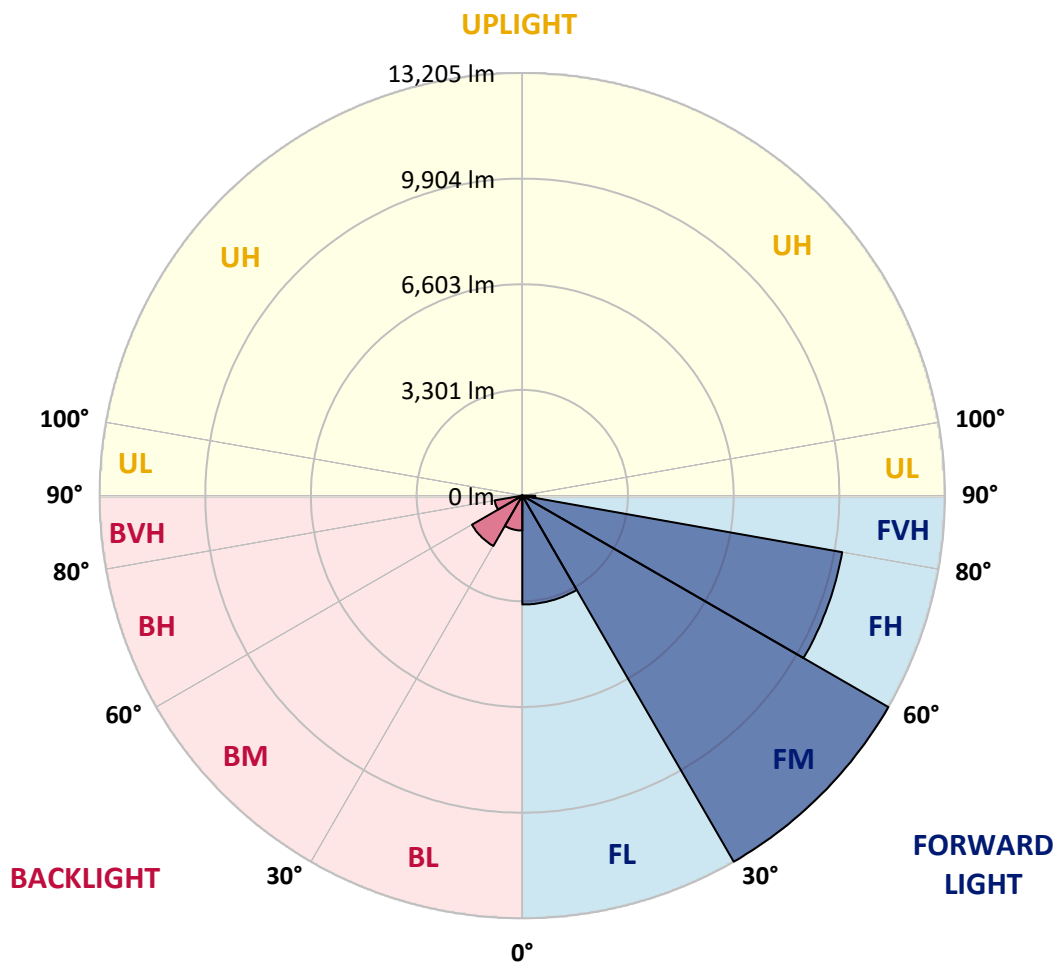
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3400.2	11.0			
FM	(30°-60°)	13205.5	42.6			
FH	(60°-80°)	10147.5	32.8			G4/12000
FVH	(80°-90°)	407.5	1.3			G3/500
BL	(0°-30°)	1091.9	3.5	B3/2500		
BM	(30°-60°)	1815.0	5.9	B2/2500		
BH	(60°-80°)	876.3	2.8	B2/1000		G2/1000
BVH	(80°-90°)	38.1	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10240.0	10240.0	10240.0	10240.0	10240.0	10240.0	10240.0	10240.0	10240.0	10240.0	10240.0
2.5°	11257.4	11207.9	11094.9	10751.1	10452.0	10061.0	9665.3	9354.5	9163.7	8812.8	8652.7
5°	10906.5	10930.0	10602.7	9896.1	9109.5	8572.6	7986.2	7519.8	7006.4	6681.4	6339.9
7.5°	9990.4	9943.3	9587.6	8603.2	7647.0	6869.8	6128.0	5525.1	5145.9	4842.1	4587.7
10°	9206.1	9170.8	8716.2	7449.2	6422.4	5840.7	5339.0	4811.5	4404.0	3958.9	3603.3
12.5°	8713.9	8633.8	8111.0	6787.4	5951.3	5409.7	4863.3	4314.6	3751.7	3301.9	2870.9
15°	8549.0	8433.6	7851.9	6559.0	5649.9	4962.2	4276.9	3645.7	2998.0	2501.1	2176.1
17.5°	8848.1	8657.4	8038.0	6518.9	5289.6	4378.1	3535.0	2713.1	2039.5	1660.3	1460.2
20°	9533.5	9314.4	8509.0	6478.9	4889.2	3723.4	2687.2	1917.1	1410.7	1203.5	1092.8
22.5°	10550.9	10249.4	9206.1	6542.5	4519.4	3085.2	1940.6	1354.2	1121.0	991.5	913.8
25°	11773.2	11521.2	10089.3	6768.6	4227.4	2583.5	1500.2	1106.9	944.4	864.3	805.4
27.5°	13113.2	12710.5	11231.5	7039.4	3961.3	2195.0	1316.5	989.1	840.8	767.8	737.1
30°	14067.0	13753.8	12187.7	7227.8	3629.2	1902.9	1203.5	975.0	843.1	756.0	699.5
32.5°	15009.1	14608.7	12988.4	7315.0	3386.6	1700.4	1041.0	850.2	739.5	694.8	638.2
35°	16017.1	15597.9	13786.8	7267.9	3205.3	1566.1	944.4	758.3	633.5	558.2	501.6
37.5°	17036.8	16594.1	14580.5	7098.3	3092.3	1512.0	869.0	720.7	598.2	520.5	459.2
40°	18247.3	17656.2	15324.7	6959.3	2974.5	1483.7	819.6	697.1	572.3	489.9	428.6
42.5°	19236.5	18673.6	16028.8	6886.3	2894.4	1417.8	819.6	678.3	555.8	464.0	400.4
45°	20173.8	19589.8	16789.5	6945.2	2861.5	1335.3	829.0	675.9	544.0	445.1	381.5
47.5°	20958.1	20451.7	17571.4	7166.6	2819.1	1245.9	779.5	708.9	537.0	428.6	362.7
50°	21883.6	21393.8	18605.3	7614.1	2743.7	1156.4	718.3	763.1	534.6	414.5	346.2
52.5°	23188.4	22658.5	20032.5	8122.8	2623.6	1019.8	661.8	756.0	525.2	390.9	329.7
55°	24782.8	24354.1	21685.8	8732.7	2458.7	866.7	572.3	671.2	496.9	350.9	301.5
57.5°	25804.9	25439.8	22924.6	8996.5	2206.7	708.9	504.0	562.9	454.5	313.2	268.5
59°	25925.0	25595.3	23183.6	8909.4	2041.9	647.7	471.0	482.8	442.8	292.0	249.6
60°	25823.7	25482.2	23080.0	8739.8	1888.8	605.3	442.8	428.6	445.1	280.3	235.5
62.5°	25173.7	24589.6	22074.4	7880.2	1650.9	555.8	393.3	350.9	393.3	252.0	209.6
65°	23918.4	23042.3	20084.3	6669.7	1556.7	527.5	334.4	294.4	299.1	221.4	181.3
67.5°	21725.8	20621.3	17434.8	5419.1	1516.7	529.9	282.6	263.8	230.8	188.4	160.1
70°	18259.1	17156.9	13989.3	4458.2	1497.8	529.9	240.2	226.1	193.1	157.8	139.0
72.5°	12938.9	11752.0	9436.9	3502.0	1349.5	527.5	204.9	204.9	157.8	131.9	113.0
75°	7310.2	7319.7	5932.5	2477.6	1121.0	435.7	164.9	162.5	115.4	101.3	84.8
77.5°	4260.4	4185.0	3999.0	1064.5	520.5	197.8	115.4	98.9	80.1	73.0	61.2
80°	2190.2	1801.7	1754.6	386.2	186.1	124.8	80.1	56.5	51.8	47.1	42.4
82.5°	647.7	650.0	579.4	155.4	103.6	82.4	40.0	30.6	28.3	25.9	25.9
85°	44.7	28.3	33.0	47.1	63.6	33.0	2.4	7.1	7.1	9.4	11.8
87.5°	4.7	2.4	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°	10240.0	10240.0	10240.0	10240.0	10240.0	10240.0	10240.0	10240.0	10240.0	10240.0	10240.0
2.5°	8476.0	8579.6	8386.5	8391.2	8231.1	8282.9	8094.5	8155.7	8045.0	8129.8	8379.5
5°	6377.6	6401.2	6245.7	6196.3	6219.8	6316.4	6354.1	6182.1	6255.2	6111.5	6102.1
7.5°	4493.5	4521.8	4432.3	4420.5	4590.1	4550.1	4623.1	4446.4	4279.2	4352.2	4218.0
10°	3490.3	3372.5	3188.8	3137.0	3104.0	3125.2	3125.2	2965.1	2941.5	2877.9	2974.5
12.5°	2755.5	2611.8	2437.5	2202.0	2143.1	2138.4	2051.3	1910.0	1865.2	1811.1	1891.1
15°	2001.8	1943.0	1796.9	1665.1	1530.8	1504.9	1363.6	1248.2	1095.1	1073.9	1066.9
17.5°	1408.4	1321.2	1318.9	1243.5	1165.8	1114.0	982.1	850.2	791.3	784.2	784.2
20°	1055.1	1024.5	975.0	965.6	942.0	883.2	765.4	694.8	666.5	668.8	678.3
22.5°	887.9	866.7	821.9	800.7	791.3	739.5	652.4	605.3	591.1	591.1	593.5
25°	793.7	774.8	725.4	692.4	680.6	642.9	574.6	539.3	527.5	527.5	527.5
27.5°	723.0	699.5	647.7	619.4	598.2	555.8	513.4	478.1	466.3	466.3	468.7
30°	673.6	647.7	600.6	562.9	529.9	492.2	456.9	426.3	412.1	409.8	412.1
32.5°	607.6	584.1	537.0	513.4	475.7	431.0	402.7	374.5	360.3	362.7	360.3
35°	473.4	466.3	433.3	440.4	419.2	381.5	355.6	325.0	308.5	306.2	310.9
37.5°	431.0	402.7	365.0	367.4	360.3	346.2	303.8	270.8	259.1	259.1	261.4
40°	398.0	369.8	327.4	306.2	308.5	308.5	263.8	228.4	216.7	214.3	219.0
42.5°	369.8	341.5	294.4	259.1	249.6	261.4	223.7	188.4	176.6	171.9	176.6
45°	350.9	320.3	266.1	226.1	197.8	212.0	183.7	155.4	141.3	141.3	139.0
47.5°	332.1	303.8	244.9	195.5	164.9	157.8	150.7	124.8	110.7	108.3	110.7
50°	315.6	287.3	221.4	169.6	139.0	122.5	122.5	98.9	89.5	84.8	87.1
52.5°	299.1	268.5	200.2	150.7	120.1	98.9	87.1	80.1	73.0	70.7	73.0
55°	275.5	244.9	179.0	129.5	103.6	82.4	68.3	65.9	61.2	56.5	61.2
57.5°	247.3	219.0	157.8	110.7	82.4	63.6	56.5	54.2	49.5	47.1	47.1
59°	230.8	204.9	146.0	96.6	73.0	56.5	51.8	49.5	44.7	40.0	42.4
60°	221.4	200.2	139.0	89.5	65.9	51.8	47.1	44.7	40.0	37.7	40.0
62.5°	195.5	179.0	122.5	73.0	51.8	37.7	33.0	35.3	33.0	30.6	33.0
65°	171.9	157.8	103.6	56.5	40.0	25.9	23.6	30.6	28.3	25.9	28.3
67.5°	153.1	136.6	87.1	42.4	28.3	14.1	16.5	25.9	25.9	23.6	25.9
70°	131.9	117.8	70.7	30.6	14.1	7.1	11.8	18.8	23.6	21.2	23.6
72.5°	108.3	91.8	54.2	21.2	7.1	0.0	7.1	16.5	23.6	21.2	23.6
75°	84.8	68.3	40.0	11.8	0.0	0.0	2.4	14.1	23.6	21.2	23.6
77.5°	61.2	49.5	23.6	2.4	0.0	0.0	2.4	14.1	23.6	21.2	23.6
80°	40.0	35.3	9.4	0.0	0.0	0.0	2.4	14.1	23.6	23.6	25.9
82.5°	25.9	18.8	0.0	0.0	0.0	0.0	4.7	18.8	25.9	28.3	28.3
85°	11.8	0.0	0.0	0.0	0.0	0.0	9.4	23.6	30.6	30.6	30.6
87.5°	0.0	0.0	0.0	0.0	0.0	4.7	16.5	28.3	35.3	35.3	35.3
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°	10240.0	10240.0	10240.0	10240.0	10240.0	10240.0	10240.0	10240.0	10240.0	10240.0	10240.0
2.5°	8421.9	8570.2	8779.8	9102.5	9363.9	9776.0	10091.6	10522.6	10958.3	11090.2	11295.1
5°	6198.6	6389.4	6865.1	7298.5	7571.7	8443.0	8994.1	9863.2	10642.7	11017.2	11424.6
7.5°	4305.1	4531.2	4893.9	5499.2	6073.8	6782.7	7672.9	8666.8	9809.0	10343.6	10918.3
10°	3021.6	3304.2	3815.3	4312.2	5035.2	5708.8	6587.2	7684.7	8944.7	9575.9	10296.5
12.5°	1907.6	2159.6	2835.5	3393.7	4295.7	5077.6	5887.8	6881.6	8341.8	8989.4	9745.4
15°	1090.4	1302.4	1618.0	2333.9	3334.8	4368.7	5379.1	6533.1	8033.3	8831.6	9648.9
17.5°	812.5	869.0	1010.3	1415.4	2326.8	3535.0	4910.4	6427.1	8242.9	9180.2	10112.8
20°	683.0	720.7	786.6	946.8	1483.7	2722.5	4453.5	6445.9	8921.1	10098.7	10984.2
22.5°	612.3	635.9	690.0	793.7	1012.7	1983.0	3918.9	6556.6	9743.1	11226.8	12248.9
25°	537.0	567.6	614.7	704.2	843.1	1375.4	3391.4	6803.9	10894.7	12658.7	13619.6
27.5°	478.1	506.3	553.4	635.9	739.5	1050.4	2776.7	7015.9	12109.9	14100.0	14886.6
30°	419.2	447.5	494.6	560.5	654.7	850.2	2114.9	7140.7	13289.9	15181.0	15786.3
32.5°	369.8	393.3	438.0	496.9	574.6	720.7	1667.4	7011.1	14191.9	16163.1	16568.2
35°	320.3	348.6	386.2	440.4	508.7	614.7	1387.2	6563.7	14966.7	17173.4	17319.4
37.5°	268.5	301.5	341.5	390.9	445.1	565.2	1114.0	6069.1	15795.7	18433.4	18193.2
40°	226.1	256.7	294.4	348.6	398.0	518.1	857.3	5541.6	16690.6	19615.7	19147.0
42.5°	183.7	216.7	261.4	310.9	393.3	452.2	664.1	4995.2	17493.7	20644.8	20009.0
45°	146.0	174.3	221.4	285.0	390.9	388.6	513.4	4455.9	18099.0	21379.6	20651.9
47.5°	115.4	139.0	186.1	277.9	360.3	329.7	412.1	4121.4	18734.9	22041.4	21144.1
50°	91.8	115.4	160.1	289.7	315.6	282.6	346.2	4175.6	19349.5	22378.2	21346.7
52.5°	77.7	101.3	139.0	228.4	242.6	247.3	303.8	4425.2	20143.2	22738.5	21749.4
55°	68.3	89.5	117.8	160.1	188.4	221.4	277.9	4606.6	21205.4	23511.0	22637.3
57.5°	54.2	77.7	106.0	136.6	155.4	193.1	256.7	4620.7	22166.2	24502.5	23817.2
59°	49.5	70.7	98.9	129.5	139.0	174.3	242.6	4500.6	22201.6	24650.9	24358.8
60°	44.7	68.3	94.2	120.1	131.9	164.9	230.8	4361.7	21881.3	24415.4	24582.6
62.5°	37.7	58.9	82.4	96.6	113.0	136.6	200.2	3857.7	20329.3	23348.5	24168.1
65°	33.0	51.8	70.7	80.1	94.2	117.8	176.6	3087.5	18614.7	21902.5	22981.1
67.5°	30.6	47.1	61.2	68.3	82.4	108.3	157.8	2180.8	16393.9	20067.8	21198.3
70°	28.3	44.7	54.2	63.6	73.0	91.8	134.2	1271.8	12628.1	16850.8	18044.8
72.5°	28.3	42.4	47.1	54.2	63.6	82.4	124.8	687.7	8633.8	12854.2	14396.8
75°	28.3	40.0	42.4	47.1	56.5	75.4	110.7	360.3	5581.6	8930.6	11021.9
77.5°	28.3	37.7	42.4	44.7	54.2	65.9	96.6	226.1	3718.7	6255.2	7449.2
80°	30.6	37.7	40.0	44.7	51.8	61.2	80.1	150.7	2185.5	3763.5	4533.6
82.5°	33.0	37.7	42.4	47.1	54.2	58.9	70.7	94.2	1008.0	2489.3	2816.7
85°	35.3	40.0	44.7	49.5	56.5	58.9	65.9	68.3	164.9	1123.4	1519.0
87.5°	37.7	42.4	47.1	51.8	61.2	61.2	61.2	61.2	56.5	120.1	306.2
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: P457860

CATALOG NUMBER: GALN-SA9B-727-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10240.0	10240.0	10240.0	10240.0	10240.0	10240.0	10240.0	10240.0	10240.0	10240.0
2.5°	11554.1	11820.3	12006.3	12053.4	11919.2	11858.0	11688.4	11424.6	11264.5	11257.4
5°	12175.9	12800.0	13233.3	13306.3	13047.3	12609.2	12088.8	11417.5	11024.2	10906.5
7.5°	12069.9	13162.7	13859.8	13961.1	13525.4	12689.3	11681.3	10600.3	10171.7	9990.4
10°	11634.2	12967.2	13963.4	14123.6	13541.9	12364.3	11083.1	9877.3	9345.1	9206.1
12.5°	11262.1	12609.2	13494.7	13716.1	13275.7	12100.5	10725.1	9413.4	8843.4	8713.9
15°	11099.6	12185.3	12727.0	12840.0	12767.0	11935.7	10687.5	9342.7	8690.3	8549.0
17.5°	11262.1	11825.0	11893.3	12008.7	12171.2	11919.2	11050.1	9726.6	9022.4	8848.1
20°	11688.4	11511.8	11229.1	11278.6	11650.7	11987.5	11695.4	10576.8	9719.5	9533.5
22.5°	12413.8	11434.0	10793.4	10751.1	11222.1	12215.9	12642.2	11728.4	10734.6	10550.9
25°	13304.0	11629.5	10633.3	10541.4	11054.9	12550.4	13671.4	13139.1	12053.4	11773.2
27.5°	14274.3	12034.6	10633.3	10543.8	11040.7	12847.1	14552.2	14387.3	13419.4	13113.2
30°	14806.5	12369.0	10786.4	10685.1	11215.0	13019.0	15023.2	15496.6	14446.2	14067.0
32.5°	15282.3	12833.0	11085.5	10894.7	11580.0	13273.4	15444.8	16438.6	15263.4	15009.1
35°	15720.3	13329.9	11497.6	11276.2	12060.5	13621.9	15911.1	17427.8	16400.9	16017.1
37.5°	16203.1	13906.9	12140.6	11952.2	12863.6	14300.2	16464.5	18727.8	17519.6	17036.8
40°	16728.3	14575.7	13198.0	13117.9	14140.0	15068.0	17164.0	20114.9	18796.1	18247.3
42.5°	17262.9	15345.9	14493.3	14625.2	15586.1	16144.2	17882.3	21181.8	19841.8	19236.5
45°	17748.1	16330.3	16177.2	16829.6	17272.3	17194.6	18414.6	21933.1	20753.2	20173.8
47.5°	18360.4	17764.6	18214.4	19220.0	19231.8	18336.8	18817.3	22547.8	21537.4	20958.1
50°	19045.7	19457.9	20845.0	21869.5	21594.0	19460.2	19288.3	23275.5	22347.6	21883.6
52.5°	19839.4	21353.7	23275.5	24413.0	23770.1	20684.9	20072.6	24062.1	23633.5	23188.4
55°	20762.6	22646.7	25698.9	26605.6	25958.0	22206.3	21264.2	25129.0	25086.6	24782.8
57.5°	21805.9	24012.6	27102.5	28329.6	27752.5	23991.4	22929.3	26134.6	25974.4	25804.9
59°	22630.2	24714.5	27721.9	28993.7	28645.1	25242.0	24048.0	26761.1	26179.3	25925.0
60°	23129.5	25190.2	27950.4	29083.2	29003.1	25986.2	24756.9	27067.2	26177.0	25823.7
62.5°	24610.8	26021.5	27863.2	28685.2	28998.4	27413.4	26836.4	27404.0	25691.8	25173.7
65°	25138.4	25746.0	26419.6	26318.3	26586.8	27340.4	28164.7	27034.2	24655.6	23918.4
67.5°	24111.6	22724.4	22962.3	22286.4	22154.5	24307.0	27625.4	25225.5	22627.8	21725.8
70°	20324.6	17408.9	17288.8	17599.7	16747.1	19679.3	24806.3	21742.3	19281.2	18259.1
72.5°	15998.2	12303.1	11290.4	12435.0	12409.0	15013.8	20607.2	15428.3	13026.1	12938.9
75°	12581.0	8565.5	7517.5	7703.5	8061.5	10868.8	16412.7	9797.2	8021.5	7310.2
77.5°	8445.4	6069.1	5661.7	5433.2	5819.5	6978.2	10383.7	5313.1	4498.2	4260.4
80°	4868.0	4408.8	5007.0	4545.4	4752.6	4397.0	5164.7	2437.5	2023.0	2190.2
82.5°	3167.6	2510.5	2675.4	1987.7	2717.8	2741.3	1658.0	720.7	610.0	647.7
85°	1980.6	1177.6	661.8	471.0	937.3	1723.9	518.1	44.7	51.8	44.7
87.5°	513.4	195.5	82.4	122.5	150.7	134.2	120.1	7.1	2.4	4.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)