

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: P458034

Luminaire Tested: **GALN-SA9B-830-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458034
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-830-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 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: 29438 lumens
Efficiency: N/A
Efficacy: 80.9 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

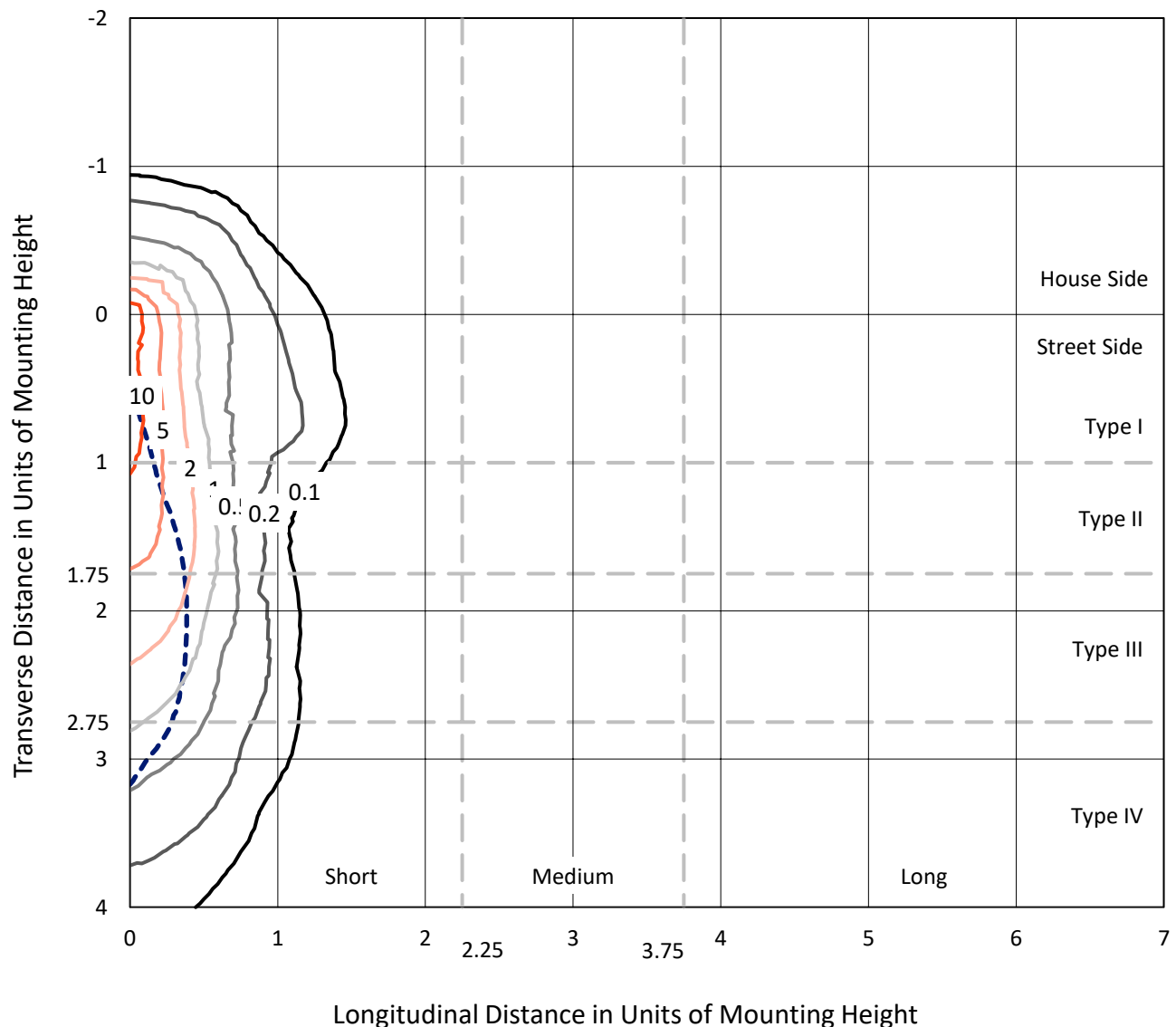


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

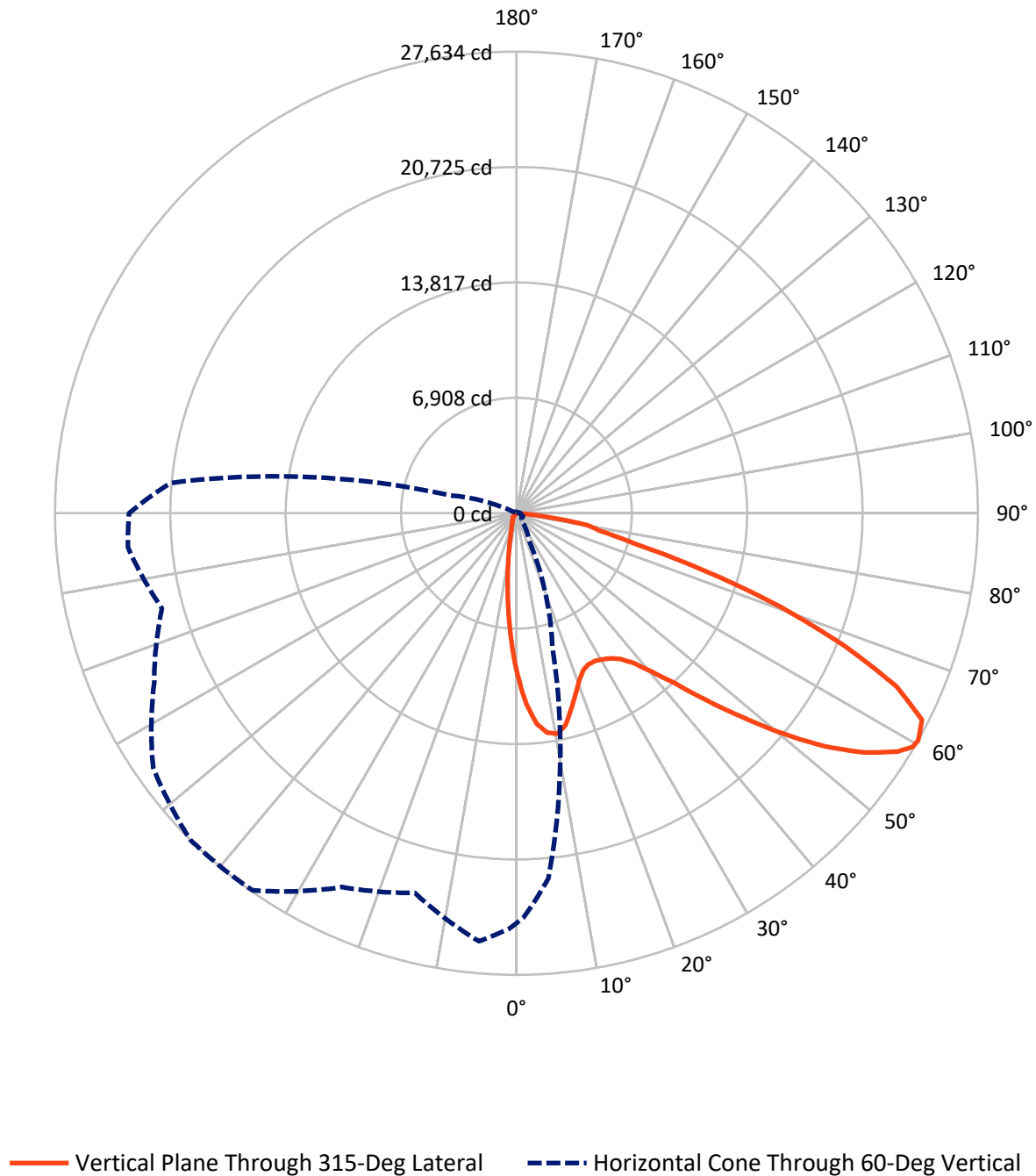


Based on 25 foot mounting height. Maximum calculated value = 15.6 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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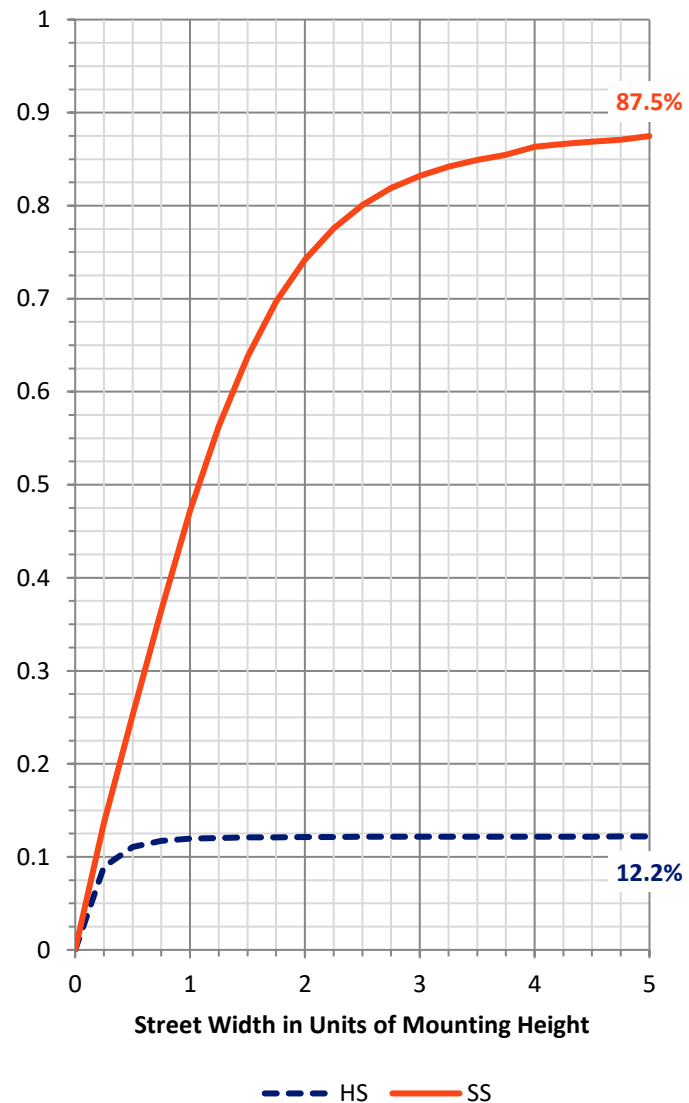
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3630.9	0.0	3630.9
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	25807.1	0.0	25807.1
	% Fixture	87.7	0.0	87.7
Total	Lumens	29438.0	0.0	29438.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	723.7	2.5
10°-20°	1437.2	4.9
20°-30°	2107.3	7.2
30°-40°	3133.9	10.6
40°-50°	4560.9	15.5
50°-60°	6577.1	22.3
60°-70°	7234.2	24.6
70°-80°	3240.3	11.0
80°-90°	423.4	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°	29438.0	100.0
0°-180°	29438.0	100.0

Coefficient of Utilization



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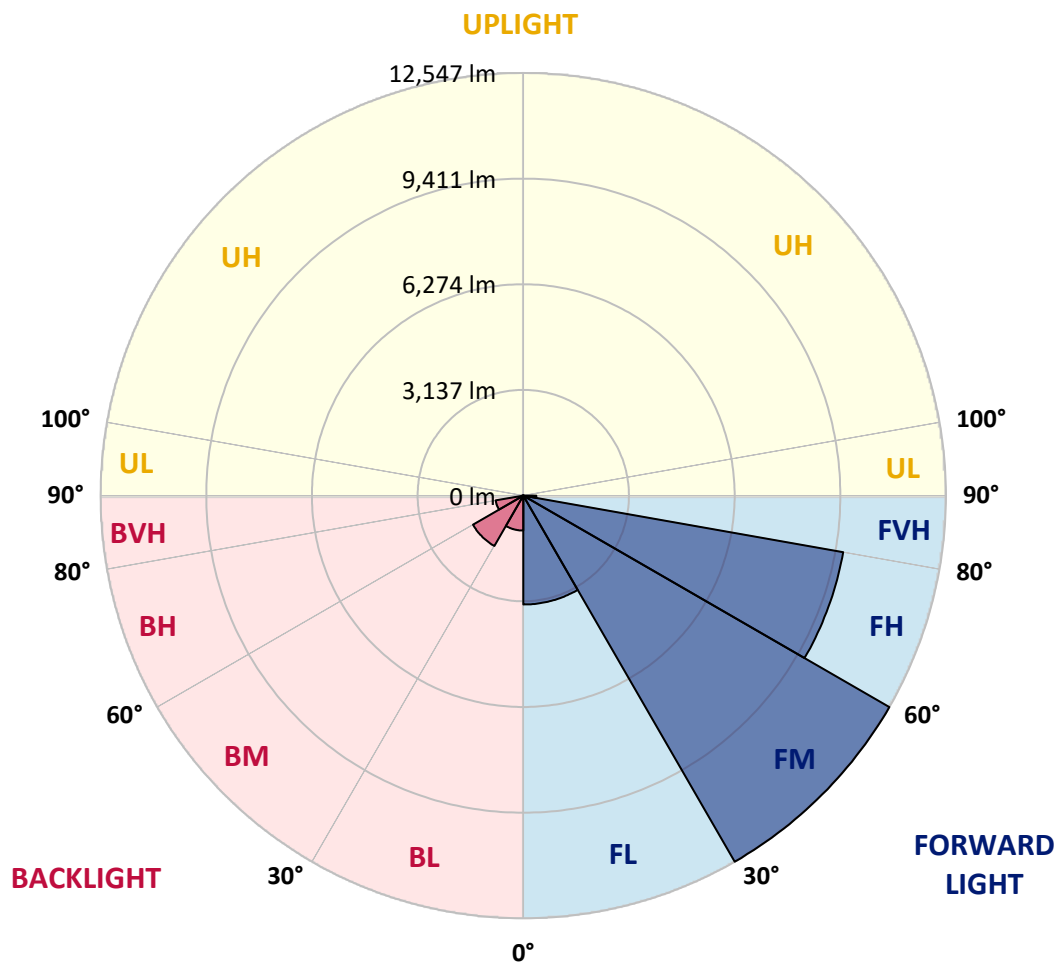
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3230.7	11.0			
FM	(30°-60°)	12547.4	42.6			
FH	(60°-80°)	9641.8	32.8			G4/12000
FVH	(80°-90°)	387.2	1.3			G3/500
BL	(0°-30°)	1037.5	3.5	B3/2500		
BM	(30°-60°)	1724.6	5.9	B2/2500		
BH	(60°-80°)	832.6	2.8	B2/1000		G2/1000
BVH	(80°-90°)	36.2	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°	9729.7	9729.7	9729.7	9729.7	9729.7	9729.7	9729.7	9729.7	9729.7	9729.7	9729.7
2.5°	10696.4	10649.4	10542.0	10215.3	9931.1	9559.6	9183.7	8888.3	8707.0	8373.6	8221.4
5°	10363.0	10385.3	10074.3	9403.0	8655.6	8145.4	7588.2	7145.1	6657.3	6348.5	6024.0
7.5°	9492.5	9447.7	9109.8	8174.5	7265.9	6527.5	5822.6	5249.7	4889.5	4600.8	4359.1
10°	8747.3	8713.7	8281.9	7078.0	6102.3	5549.6	5072.9	4571.7	4184.6	3761.6	3423.7
12.5°	8279.6	8203.5	7706.8	6449.2	5654.8	5140.1	4620.9	4099.5	3564.7	3137.3	2727.8
15°	8123.0	8013.3	7460.6	6232.1	5368.3	4714.9	4063.7	3464.0	2848.6	2376.5	2067.7
17.5°	8407.2	8225.9	7637.4	6194.1	5026.0	4160.0	3358.8	2577.9	1937.9	1577.6	1387.4
20°	9058.4	8850.2	8084.9	6156.0	4645.5	3537.9	2553.3	1821.5	1340.4	1143.5	1038.3
22.5°	10025.1	9738.6	8747.3	6216.4	4294.2	2931.4	1843.9	1286.7	1065.2	942.1	868.2
25°	11186.4	10947.0	9586.5	6431.3	4016.7	2454.8	1425.4	1051.7	897.3	821.2	765.3
27.5°	12459.7	12077.1	10671.8	6688.6	3763.9	2085.6	1250.9	939.8	798.9	729.5	700.4
30°	13366.0	13068.4	11580.3	6867.6	3448.4	1808.1	1143.5	926.4	801.1	718.3	664.6
32.5°	14261.1	13880.7	12341.1	6950.4	3217.9	1615.6	989.1	807.8	702.6	660.1	606.4
35°	15218.8	14820.5	13099.7	6905.7	3045.6	1488.1	897.3	720.6	602.0	530.3	476.6
37.5°	16187.8	15767.1	13853.8	6744.5	2938.1	1436.6	825.7	684.7	568.4	494.5	436.4
40°	17338.0	16776.3	14561.0	6612.5	2826.3	1409.8	778.7	662.4	543.8	465.4	407.3
42.5°	18277.8	17743.0	15230.0	6543.1	2750.2	1347.1	778.7	644.5	528.1	440.8	380.4
45°	19168.5	18613.5	15952.8	6599.1	2718.9	1268.8	787.7	642.2	516.9	422.9	362.5
47.5°	19913.6	19432.5	16695.8	6809.4	2678.6	1183.8	740.7	673.6	510.2	407.3	344.6
50°	20793.1	20327.6	17678.1	7234.6	2607.0	1098.7	682.5	725.0	508.0	393.8	328.9
52.5°	22032.8	21529.3	19034.2	7718.0	2492.8	968.9	628.8	718.3	499.0	371.5	313.3
55°	23547.7	23140.4	20605.1	8297.5	2336.2	823.5	543.8	637.8	472.2	333.4	286.4
57.5°	24518.9	24172.0	21782.1	8548.2	2096.8	673.6	478.9	534.8	431.9	297.6	255.1
59°	24633.0	24319.7	22028.3	8465.4	1940.1	615.4	447.5	458.7	420.7	277.5	237.2
60°	24536.8	24212.3	21929.8	8304.2	1794.7	575.1	420.7	407.3	422.9	266.3	223.8
62.5°	23919.2	23364.2	20974.3	7487.5	1568.7	528.1	373.7	333.4	373.7	239.4	199.2
65°	22726.5	21894.0	19083.4	6337.3	1479.1	501.3	317.8	279.7	284.2	210.3	172.3
67.5°	20643.1	19593.6	16566.0	5149.0	1441.1	503.5	268.5	250.6	219.3	179.0	152.2
70°	17349.2	16301.9	13292.2	4236.0	1423.2	503.5	228.2	214.8	183.5	149.9	132.0
72.5°	12294.1	11166.3	8966.6	3327.5	1282.2	501.3	194.7	194.7	149.9	125.3	107.4
75°	6945.9	6954.9	5636.9	2354.1	1065.2	414.0	156.6	154.4	109.6	96.2	80.6
77.5°	4048.1	3976.5	3799.7	1011.5	494.5	188.0	109.6	94.0	76.1	69.4	58.2
80°	2081.1	1711.9	1667.1	367.0	176.8	118.6	76.1	53.7	49.2	44.8	40.3
82.5°	615.4	617.6	550.5	147.7	98.5	78.3	38.0	29.1	26.9	24.6	24.6
85°	42.5	26.9	31.3	44.8	60.4	31.3	2.2	6.7	6.7	9.0	11.2
87.5°	4.5	2.2	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°	9729.7	9729.7	9729.7	9729.7	9729.7	9729.7	9729.7	9729.7	9729.7	9729.7	9729.7
2.5°	8053.6	8152.1	7968.6	7973.1	7820.9	7870.1	7691.1	7749.3	7644.1	7724.7	7961.9
5°	6059.8	6082.2	5934.5	5887.5	5909.9	6001.6	6037.4	5874.1	5943.4	5806.9	5798.0
7.5°	4269.6	4296.5	4211.4	4200.2	4361.3	4323.3	4392.7	4224.8	4066.0	4135.3	4007.8
10°	3316.3	3204.4	3029.9	2980.7	2949.3	2969.5	2969.5	2817.3	2794.9	2734.5	2826.3
12.5°	2618.2	2481.7	2316.1	2092.3	2036.3	2031.9	1949.1	1814.8	1772.3	1720.8	1796.9
15°	1902.1	1846.1	1707.4	1582.1	1454.5	1429.9	1295.6	1186.0	1040.5	1020.4	1013.7
17.5°	1338.2	1255.4	1253.1	1181.5	1107.7	1058.4	933.1	807.8	751.9	745.2	745.2
20°	1002.5	973.4	926.4	917.5	895.1	839.2	727.3	660.1	633.3	635.5	644.5
22.5°	843.6	823.5	781.0	760.8	751.9	702.6	619.9	575.1	561.7	561.7	563.9
25°	754.1	736.2	689.2	657.9	646.7	610.9	546.0	512.4	501.3	501.3	501.3
27.5°	687.0	664.6	615.4	588.5	568.4	528.1	487.8	454.3	443.1	443.1	445.3
30°	640.0	615.4	570.6	534.8	503.5	467.7	434.1	405.0	391.6	389.4	391.6
32.5°	577.3	555.0	510.2	487.8	452.0	409.5	382.7	355.8	342.4	344.6	342.4
35°	449.8	443.1	411.7	418.5	398.3	362.5	337.9	308.8	293.1	290.9	295.4
37.5°	409.5	382.7	346.8	349.1	342.4	328.9	288.7	257.3	246.2	246.2	248.4
40°	378.2	351.3	311.0	290.9	293.1	293.1	250.6	217.1	205.9	203.6	208.1
42.5°	351.3	324.5	279.7	246.2	237.2	248.4	212.6	179.0	167.8	163.4	167.8
45°	333.4	304.3	252.9	214.8	188.0	201.4	174.5	147.7	134.3	134.3	132.0
47.5°	315.5	288.7	232.7	185.7	156.6	149.9	143.2	118.6	105.2	102.9	105.2
50°	299.9	273.0	210.3	161.1	132.0	116.4	116.4	94.0	85.0	80.6	82.8
52.5°	284.2	255.1	190.2	143.2	114.1	94.0	82.8	76.1	69.4	67.1	69.4
55°	261.8	232.7	170.1	123.1	98.5	78.3	64.9	62.7	58.2	53.7	58.2
57.5°	235.0	208.1	149.9	105.2	78.3	60.4	53.7	51.5	47.0	44.8	44.8
59°	219.3	194.7	138.7	91.7	69.4	53.7	49.2	47.0	42.5	38.0	40.3
60°	210.3	190.2	132.0	85.0	62.7	49.2	44.8	42.5	38.0	35.8	38.0
62.5°	185.7	170.1	116.4	69.4	49.2	35.8	31.3	33.6	31.3	29.1	31.3
65°	163.4	149.9	98.5	53.7	38.0	24.6	22.4	29.1	26.9	24.6	26.9
67.5°	145.5	129.8	82.8	40.3	26.9	13.4	15.7	24.6	24.6	22.4	24.6
70°	125.3	111.9	67.1	29.1	13.4	6.7	11.2	17.9	22.4	20.1	22.4
72.5°	102.9	87.3	51.5	20.1	6.7	0.0	6.7	15.7	22.4	20.1	22.4
75°	80.6	64.9	38.0	11.2	0.0	0.0	2.2	13.4	22.4	20.1	22.4
77.5°	58.2	47.0	22.4	2.2	0.0	0.0	2.2	13.4	22.4	20.1	22.4
80°	38.0	33.6	9.0	0.0	0.0	0.0	2.2	13.4	22.4	22.4	24.6
82.5°	24.6	17.9	0.0	0.0	0.0	0.0	4.5	17.9	24.6	26.9	26.9
85°	11.2	0.0	0.0	0.0	0.0	0.0	9.0	22.4	29.1	29.1	29.1
87.5°	0.0	0.0	0.0	0.0	0.0	4.5	15.7	26.9	33.6	33.6	33.6
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°	9729.7	9729.7	9729.7	9729.7	9729.7	9729.7	9729.7	9729.7	9729.7	9729.7	9729.7
2.5°	8002.1	8143.1	8342.3	8648.9	8897.2	9288.8	9588.7	9998.2	10412.2	10537.5	10732.2
5°	5889.7	6071.0	6523.0	6934.7	7194.3	8022.3	8545.9	9371.6	10112.3	10468.1	10855.3
7.5°	4090.6	4305.4	4650.0	5225.1	5771.1	6444.7	7290.5	8234.9	9320.2	9828.1	10374.1
10°	2871.0	3139.5	3625.1	4097.3	4784.3	5424.3	6258.9	7301.7	8498.9	9098.6	9783.4
12.5°	1812.6	2052.0	2694.2	3224.6	4081.6	4824.6	5594.3	6538.7	7926.1	8541.4	9259.8
15°	1036.1	1237.5	1537.3	2217.6	3168.6	4151.0	5111.0	6207.5	7632.9	8391.5	9168.0
17.5°	772.0	825.7	960.0	1344.9	2210.9	3358.8	4665.7	6106.8	7832.1	8722.7	9608.8
20°	648.9	684.7	747.4	899.6	1409.8	2586.8	4231.6	6124.7	8476.5	9595.4	10436.8
22.5°	581.8	604.2	655.7	754.1	962.2	1884.2	3723.6	6229.9	9257.5	10667.3	11638.5
25°	510.2	539.3	584.0	669.1	801.1	1306.8	3222.3	6464.8	10351.8	12027.8	12940.8
27.5°	454.3	481.1	525.9	604.2	702.6	998.0	2638.3	6666.2	11506.4	13397.3	14144.7
30°	398.3	425.2	469.9	532.6	622.1	807.8	2009.5	6784.8	12627.5	14424.5	14999.5
32.5°	351.3	373.7	416.2	472.2	546.0	684.7	1584.3	6661.7	13484.6	15357.6	15742.5
35°	304.3	331.2	367.0	418.5	483.4	584.0	1318.0	6236.6	14220.8	16317.6	16456.3
37.5°	255.1	286.4	324.5	371.5	422.9	537.1	1058.4	5766.6	15008.5	17514.8	17286.5
40°	214.8	243.9	279.7	331.2	378.2	492.3	814.5	5265.4	15858.8	18638.1	18192.8
42.5°	174.5	205.9	248.4	295.4	373.7	429.6	631.0	4746.2	16621.9	19616.0	19011.8
45°	138.7	165.6	210.3	270.8	371.5	369.2	487.8	4233.8	17197.0	20314.2	19622.7
47.5°	109.6	132.0	176.8	264.1	342.4	313.3	391.6	3916.0	17801.2	20943.0	20090.4
50°	87.3	109.6	152.2	275.2	299.9	268.5	328.9	3967.5	18385.2	21263.0	20282.8
52.5°	73.8	96.2	132.0	217.1	230.5	235.0	288.7	4204.7	19139.4	21605.3	20665.5
55°	64.9	85.0	111.9	152.2	179.0	210.3	264.1	4377.0	20148.6	22339.3	21509.1
57.5°	51.5	73.8	100.7	129.8	147.7	183.5	243.9	4390.4	21061.6	23281.4	22630.2
59°	47.0	67.1	94.0	123.1	132.0	165.6	230.5	4276.3	21095.1	23422.4	23144.9
60°	42.5	64.9	89.5	114.1	125.3	156.6	219.3	4144.3	20790.8	23198.6	23357.5
62.5°	35.8	55.9	78.3	91.7	107.4	129.8	190.2	3665.4	19316.1	22184.9	22963.7
65°	31.3	49.2	67.1	76.1	89.5	111.9	167.8	2933.7	17687.1	20811.0	21835.8
67.5°	29.1	44.8	58.2	64.9	78.3	102.9	149.9	2072.1	15576.9	19067.8	20141.9
70°	26.9	42.5	51.5	60.4	69.4	87.3	127.6	1208.4	11998.7	16011.0	17145.5
72.5°	26.9	40.3	44.8	51.5	60.4	78.3	118.6	653.4	8203.5	12213.6	13679.3
75°	26.9	38.0	40.3	44.8	53.7	71.6	105.2	342.4	5303.4	8485.5	10472.6
77.5°	26.9	35.8	40.3	42.5	51.5	62.7	91.7	214.8	3533.4	5943.4	7078.0
80°	29.1	35.8	38.0	42.5	49.2	58.2	76.1	143.2	2076.6	3575.9	4307.6
82.5°	31.3	35.8	40.3	44.8	51.5	55.9	67.1	89.5	957.8	2365.3	2676.3
85°	33.6	38.0	42.5	47.0	53.7	55.9	62.7	64.9	156.6	1067.4	1443.3
87.5°	35.8	40.3	44.8	49.2	58.2	58.2	58.2	58.2	53.7	114.1	290.9
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: P458034

CATALOG NUMBER: GALN-SA9B-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9729.7	9729.7	9729.7	9729.7	9729.7	9729.7	9729.7	9729.7	9729.7	9729.7
2.5°	10978.3	11231.2	11408.0	11452.7	11325.2	11267.0	11105.9	10855.3	10703.1	10696.4
5°	11569.1	12162.1	12573.8	12643.2	12397.1	11980.8	11486.3	10848.5	10474.8	10363.0
7.5°	11468.4	12506.7	13169.1	13265.3	12851.3	12056.9	11099.2	10072.1	9664.8	9492.5
10°	11054.4	12321.0	13267.5	13419.7	12867.0	11748.1	10530.8	9385.1	8879.3	8747.3
12.5°	10700.9	11980.8	12822.2	13032.6	12614.1	11497.5	10190.7	8944.2	8402.7	8279.6
15°	10546.5	11578.1	12092.7	12200.1	12130.8	11340.9	10154.8	8877.1	8257.2	8123.0
17.5°	10700.9	11235.7	11300.6	11410.2	11564.6	11325.2	10499.5	9241.9	8572.8	8407.2
20°	11105.9	10938.1	10669.5	10716.5	11070.1	11390.1	11112.6	10049.7	9235.1	9058.4
22.5°	11795.1	10864.2	10255.5	10215.3	10662.8	11607.1	12012.2	11143.9	10199.6	10025.1
25°	12641.0	11049.9	10103.4	10016.1	10503.9	11924.9	12990.1	12484.3	11452.7	11186.4
27.5°	13562.9	11434.8	10103.4	10018.3	10490.5	12206.9	13827.0	13670.3	12750.6	12459.7
30°	14068.7	11752.6	10248.8	10152.6	10656.1	12370.2	14274.5	14724.3	13726.3	13366.0
32.5°	14520.7	12193.4	10533.0	10351.8	11003.0	12611.9	14675.1	15619.4	14502.8	14261.1
35°	14936.9	12665.6	10924.6	10714.3	11459.5	12943.1	15118.2	16559.3	15583.6	15218.8
37.5°	15395.6	13213.8	11535.5	11356.5	12222.5	13587.5	15644.0	17794.5	16646.5	16187.8
40°	15894.6	13849.4	12540.3	12464.2	13435.4	14317.0	16308.6	19112.5	17859.4	17338.0
42.5°	16402.6	14581.1	13771.0	13896.3	14809.3	15339.7	16991.1	20126.2	18852.9	18277.8
45°	16863.6	15516.5	15371.0	15990.9	16411.6	16337.7	17496.9	20840.0	19718.9	19168.5
47.5°	17445.4	16879.2	17306.7	18262.2	18273.4	17423.0	17879.5	21424.1	20464.1	19913.6
50°	18096.6	18488.2	19806.2	20779.6	20517.8	18490.4	18327.1	22115.6	21233.9	20793.1
52.5°	18850.7	20289.6	22115.6	23196.4	22585.5	19654.0	19072.2	22863.0	22455.7	22032.8
55°	19727.9	21518.1	24418.2	25279.7	24664.3	21099.6	20204.5	23876.7	23836.4	23547.7
57.5°	20719.2	22816.0	25751.9	26917.7	26369.5	22795.8	21786.6	24832.2	24680.0	24518.9
59°	21502.4	23482.8	26340.4	27548.8	27217.6	23984.1	22849.5	25427.4	24874.7	24633.0
60°	21976.8	23934.8	26557.5	27633.8	27557.7	24691.2	23523.1	25718.3	24872.4	24536.8
62.5°	23384.3	24724.8	26474.7	27255.6	27553.3	26047.3	25499.0	26038.3	24411.5	23919.2
65°	23885.6	24462.9	25102.9	25006.7	25261.8	25977.9	26761.1	25687.0	23426.9	22726.5
67.5°	22909.9	21591.9	21817.9	21175.7	21050.4	23095.7	26248.7	23968.4	21500.2	20643.1
70°	19311.7	16541.4	16427.2	16722.6	15912.5	18698.5	23570.1	20658.8	18320.4	17349.2
72.5°	15200.9	11689.9	10727.7	11815.3	11790.6	14265.6	19580.2	14659.4	12376.9	12294.1
75°	11954.0	8138.6	7142.9	7319.6	7659.8	10327.2	15594.8	9309.0	7621.7	6945.9
77.5°	8024.5	5766.6	5379.5	5162.5	5529.4	6630.4	9866.2	5048.3	4274.1	4048.1
80°	4625.4	4189.0	4757.4	4318.8	4515.8	4177.9	4907.4	2316.1	1922.2	2081.1
82.5°	3009.8	2385.4	2542.1	1888.6	2582.3	2604.7	1575.4	684.7	579.6	615.4
85°	1881.9	1118.9	628.8	447.5	890.6	1638.0	492.3	42.5	49.2	42.5
87.5°	487.8	185.7	78.3	116.4	143.2	127.6	114.1	6.7	2.2	4.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)