

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: P457106

Luminaire Tested: **GALN-SA8B-830-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457106
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-SA8B-830-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 26222 lumens
Efficiency: N/A
Efficacy: 80.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 325
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

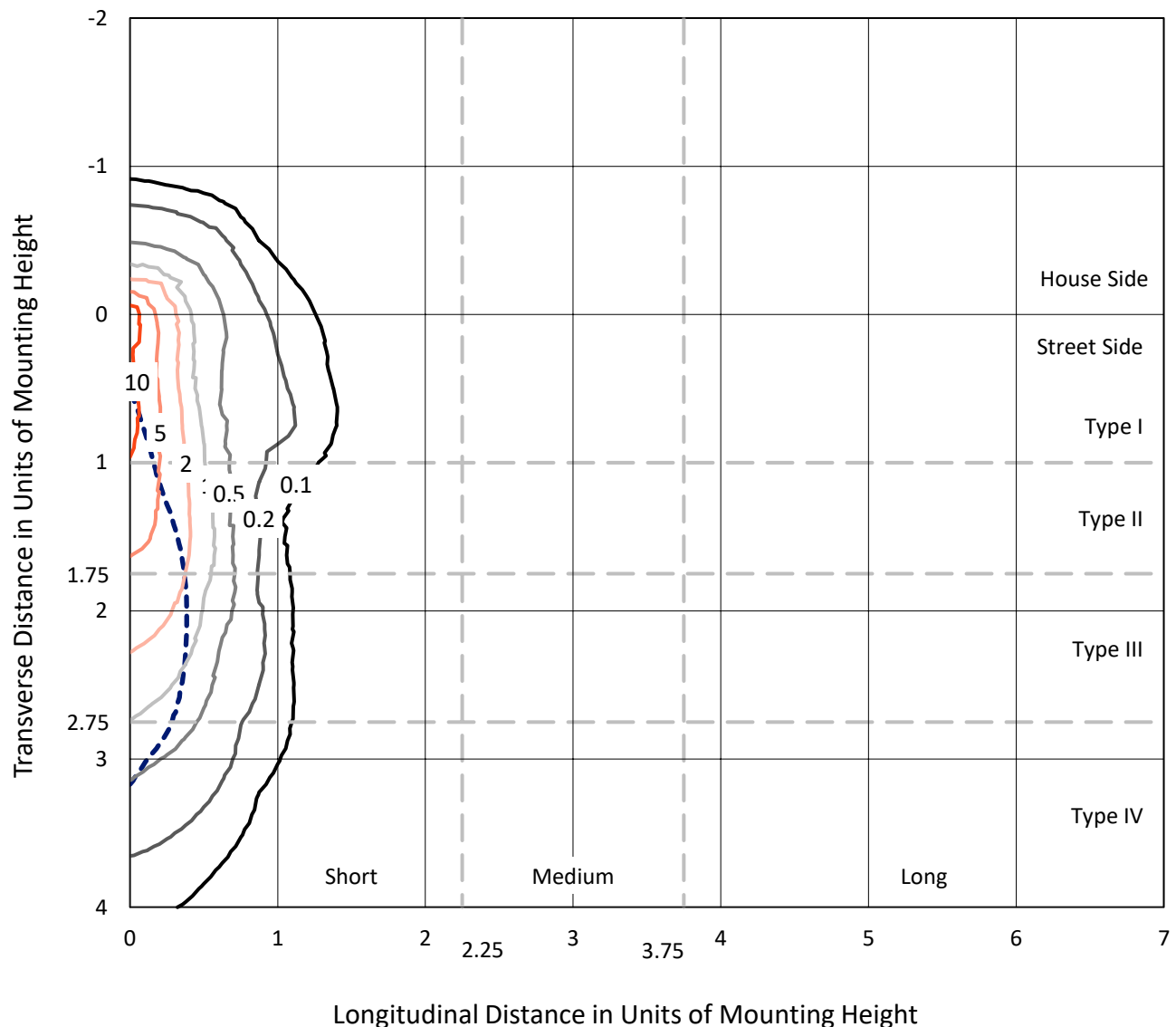


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

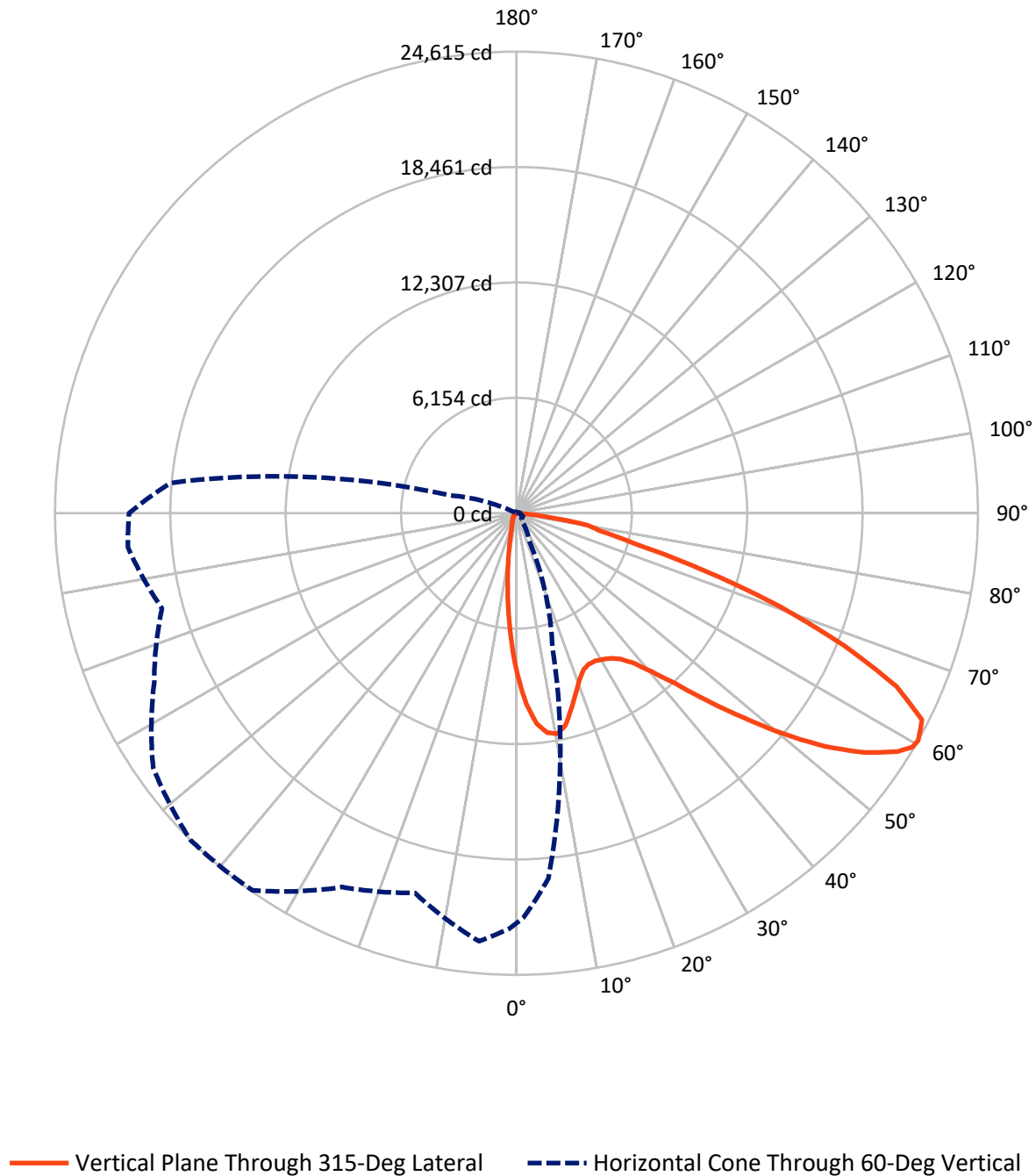


Based on 25 foot mounting height. Maximum calculated value = 13.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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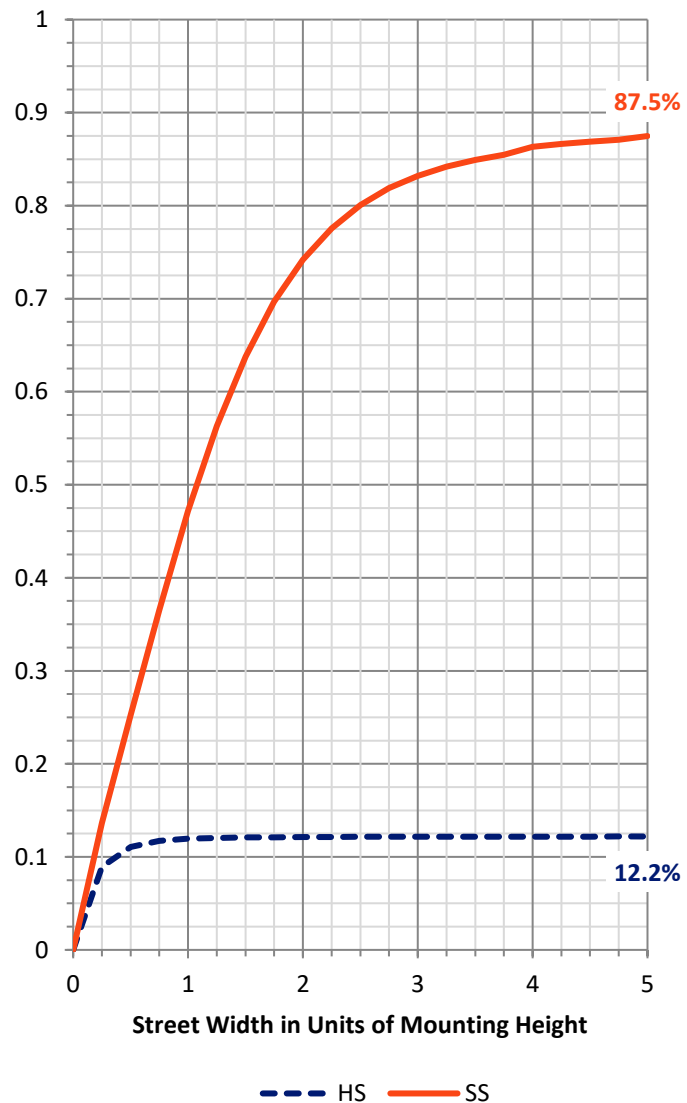
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3234.2	0.0	3234.2
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	22987.8	0.0	22987.8
	% Fixture	87.7	0.0	87.7
Total	Lumens	26222.0	0.0	26222.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	644.6	2.5
10°-20°	1280.2	4.9
20°-30°	1877.1	7.2
30°-40°	2791.6	10.6
40°-50°	4062.6	15.5
50°-60°	5858.6	22.3
60°-70°	6443.8	24.6
70°-80°	2886.3	11.0
80°-90°	377.1	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°	26222.0	100.0
0°-180°	26222.0	100.0

Coefficient of Utilization



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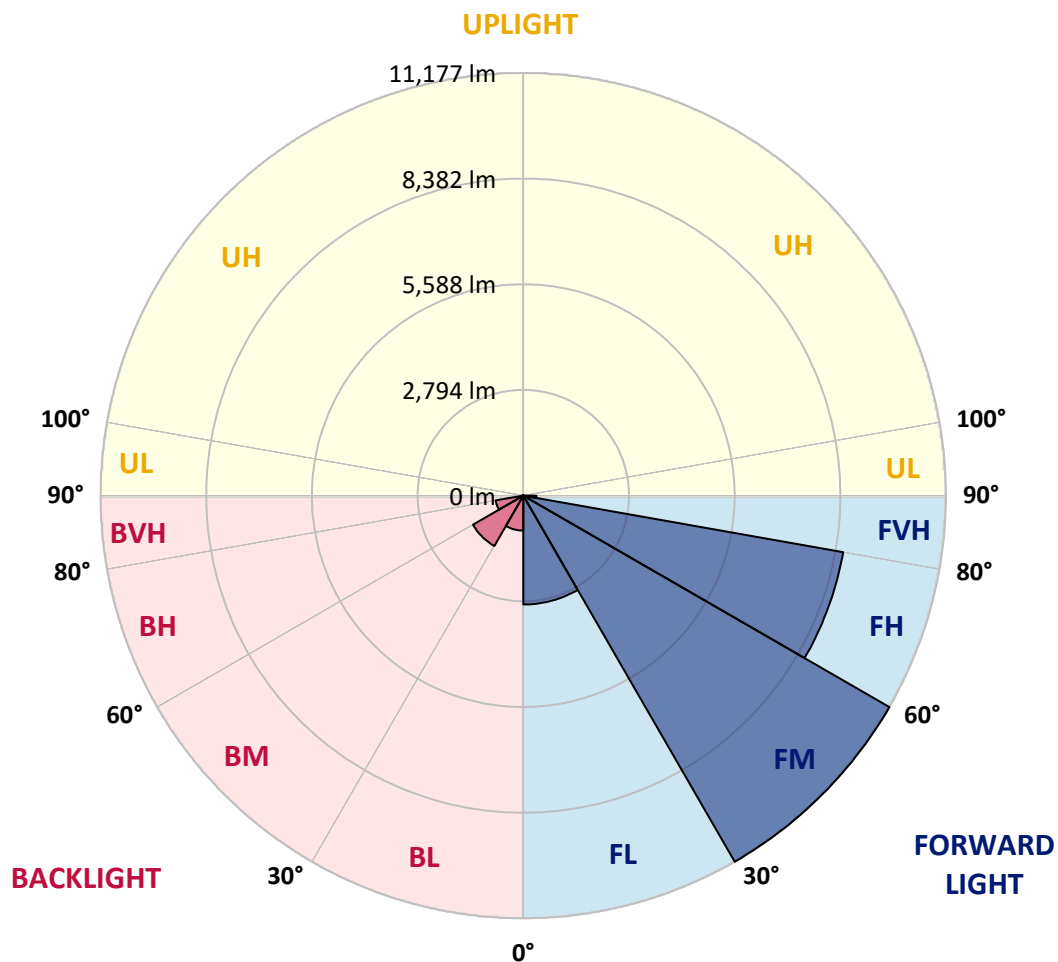
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2877.8	11.0			
FM	(30°-60°)	11176.6	42.6			
FH	(60°-80°)	8588.5	32.8			G4/12000
FVH	(80°-90°)	344.9	1.3			G3/500
BL	(0°-30°)	924.1	3.5	B2/1000		
BM	(30°-60°)	1536.2	5.9	B2/2500		
BH	(60°-80°)	741.7	2.8	B2/1000		G2/1000
BVH	(80°-90°)	32.2	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	8666.7	8666.7	8666.7	8666.7	8666.7	8666.7	8666.7	8666.7	8666.7	8666.7	8666.7
2.5°	9527.8	9486.0	9390.3	9099.3	8846.1	8515.3	8180.4	7917.3	7755.8	7458.8	7323.3
5°	9230.8	9250.8	8973.7	8375.7	7710.0	7255.5	6759.2	6364.5	5930.0	5654.9	5365.9
7.5°	8455.5	8415.6	8114.6	7281.4	6472.2	5814.4	5186.5	4676.2	4355.3	4098.2	3882.9
10°	7791.7	7761.8	7377.1	6304.7	5435.7	4943.3	4518.7	4072.3	3727.4	3350.7	3049.7
12.5°	7375.1	7307.3	6864.8	5744.6	5037.0	4578.5	4116.1	3651.7	3175.3	2794.6	2429.8
15°	7235.6	7137.9	6645.6	5551.3	4781.9	4199.8	3619.8	3085.6	2537.4	2116.9	1841.8
17.5°	7488.7	7327.3	6803.0	5517.4	4476.9	3705.5	2991.9	2296.2	1726.2	1405.3	1235.8
20°	8068.8	7883.4	7201.7	5483.5	4138.0	3151.4	2274.3	1622.5	1194.0	1018.6	924.9
22.5°	8929.9	8674.7	7791.7	5537.3	3825.1	2611.2	1642.5	1146.1	948.8	839.2	773.4
25°	9964.4	9751.1	8539.2	5728.7	3577.9	2186.6	1269.7	936.8	799.3	731.5	681.7
27.5°	11098.5	10757.7	9505.9	5957.9	3352.7	1857.7	1114.2	837.2	711.6	649.8	623.9
30°	11905.8	11640.7	10315.2	6117.4	3071.6	1610.6	1018.6	825.2	713.6	639.8	592.0
32.5°	12703.1	12364.3	10992.9	6191.1	2866.3	1439.1	881.0	719.6	625.9	588.0	540.2
35°	13556.2	13201.4	11668.6	6151.2	2712.8	1325.5	799.3	641.8	536.2	472.4	424.6
37.5°	14419.3	14044.6	12340.3	6007.7	2617.2	1279.7	735.5	609.9	506.3	440.5	388.7
40°	15443.9	14943.6	12970.2	5890.1	2517.5	1255.8	693.7	590.0	484.4	414.6	362.8
42.5°	16281.0	15804.7	13566.2	5828.3	2449.7	1199.9	693.7	574.1	470.4	392.7	338.9
45°	17074.4	16580.0	14210.0	5878.2	2421.8	1130.2	701.6	572.1	460.4	376.7	322.9
47.5°	17738.1	17309.6	14871.8	6065.5	2385.9	1054.4	659.8	600.0	454.5	362.8	307.0
50°	18521.5	18106.9	15746.8	6444.2	2322.2	978.7	607.9	645.8	452.5	350.8	293.0
52.5°	19625.8	19177.3	16954.8	6874.8	2220.5	863.1	560.1	639.8	444.5	330.9	279.1
55°	20975.2	20612.4	18354.0	7391.1	2081.0	733.5	484.4	568.1	420.6	297.0	255.1
57.5°	21840.3	21531.3	19402.5	7614.3	1867.7	600.0	426.6	476.4	384.7	265.1	227.2
59°	21941.9	21662.9	19621.8	7540.5	1728.2	548.1	398.7	408.6	374.7	247.2	211.3
60°	21856.2	21567.2	19534.1	7397.0	1598.6	512.3	374.7	362.8	376.7	237.2	199.3
62.5°	21306.1	20811.8	18682.9	6669.5	1397.3	470.4	332.9	297.0	332.9	213.3	177.4
65°	20243.7	19502.2	16998.6	5644.9	1317.6	446.5	283.0	249.2	253.1	187.4	153.5
67.5°	18387.9	17453.1	14756.2	4586.5	1283.7	448.5	239.2	223.2	195.3	159.5	135.5
70°	15453.8	14521.0	11840.0	3773.3	1267.7	448.5	203.3	191.4	163.4	133.5	117.6
72.5°	10951.0	9946.4	7987.0	2964.0	1142.1	446.5	173.4	173.4	133.5	111.6	95.7
75°	6187.1	6195.1	5021.1	2096.9	948.8	368.8	139.5	137.5	97.7	85.7	71.8
77.5°	3605.8	3542.0	3384.6	901.0	440.5	167.4	97.7	83.7	67.8	61.8	51.8
80°	1853.7	1524.9	1485.0	326.9	157.5	105.6	67.8	47.8	43.9	39.9	35.9
82.5°	548.1	550.1	490.3	131.6	87.7	69.8	33.9	25.9	23.9	21.9	21.9
85°	37.9	23.9	27.9	39.9	53.8	27.9	2.0	6.0	6.0	8.0	10.0
87.5°	4.0	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°	8666.7	8666.7	8666.7	8666.7	8666.7	8666.7	8666.7	8666.7	8666.7	8666.7	8666.7
2.5°	7173.8	7261.5	7098.0	7102.0	6966.5	7010.3	6850.9	6902.7	6809.0	6880.8	7092.1
5°	5397.8	5417.7	5286.2	5244.3	5264.2	5346.0	5377.8	5232.3	5294.1	5172.5	5164.6
7.5°	3803.2	3827.1	3751.3	3741.4	3884.9	3851.0	3912.8	3763.3	3621.8	3683.6	3569.9
10°	2954.0	2854.4	2698.9	2655.0	2627.1	2645.1	2645.1	2509.5	2489.6	2435.8	2517.5
12.5°	2332.1	2210.5	2063.0	1863.7	1813.9	1809.9	1736.1	1616.5	1578.7	1532.8	1600.6
15°	1694.3	1644.4	1520.9	1409.2	1295.6	1273.7	1154.1	1056.4	926.9	908.9	903.0
17.5°	1192.0	1118.2	1116.2	1052.4	986.7	942.8	831.2	719.6	669.7	663.8	663.8
20°	893.0	867.1	825.2	817.2	797.3	747.5	647.8	588.0	564.1	566.1	574.1
22.5°	751.5	733.5	695.7	677.7	669.7	625.9	552.1	512.3	500.3	500.3	502.3
25°	671.7	655.8	613.9	586.0	576.1	544.2	486.4	456.5	446.5	446.5	446.5
27.5°	611.9	592.0	548.1	524.2	506.3	470.4	434.5	404.6	394.7	394.7	396.7
30°	570.1	548.1	508.3	476.4	448.5	416.6	386.7	360.8	348.8	346.8	348.8
32.5°	514.3	494.3	454.5	434.5	402.6	364.8	340.8	316.9	305.0	307.0	305.0
35°	400.6	394.7	366.8	372.7	354.8	322.9	301.0	275.1	261.1	259.1	263.1
37.5°	364.8	340.8	309.0	311.0	305.0	293.0	257.1	229.2	219.3	219.3	221.3
40°	336.9	312.9	277.1	259.1	261.1	261.1	223.2	193.3	183.4	181.4	185.4
42.5°	312.9	289.0	249.2	219.3	211.3	221.3	189.4	159.5	149.5	145.5	149.5
45°	297.0	271.1	225.2	191.4	167.4	179.4	155.5	131.6	119.6	119.6	117.6
47.5°	281.1	257.1	207.3	165.4	139.5	133.5	127.6	105.6	93.7	91.7	93.7
50°	267.1	243.2	187.4	143.5	117.6	103.7	103.7	83.7	75.7	71.8	73.8
52.5°	253.1	227.2	169.4	127.6	101.7	83.7	73.8	67.8	61.8	59.8	61.8
55°	233.2	207.3	151.5	109.6	87.7	69.8	57.8	55.8	51.8	47.8	51.8
57.5°	209.3	185.4	133.5	93.7	69.8	53.8	47.8	45.8	41.9	39.9	39.9
59°	195.3	173.4	123.6	81.7	61.8	47.8	43.9	41.9	37.9	33.9	35.9
60°	187.4	169.4	117.6	75.7	55.8	43.9	39.9	37.9	33.9	31.9	33.9
62.5°	165.4	151.5	103.7	61.8	43.9	31.9	27.9	29.9	27.9	25.9	27.9
65°	145.5	133.5	87.7	47.8	33.9	21.9	19.9	25.9	23.9	21.9	23.9
67.5°	129.6	115.6	73.8	35.9	23.9	12.0	14.0	21.9	21.9	19.9	21.9
70°	111.6	99.7	59.8	25.9	12.0	6.0	10.0	15.9	19.9	17.9	19.9
72.5°	91.7	77.7	45.8	17.9	6.0	0.0	6.0	14.0	19.9	17.9	19.9
75°	71.8	57.8	33.9	10.0	0.0	0.0	2.0	12.0	19.9	17.9	19.9
77.5°	51.8	41.9	19.9	2.0	0.0	0.0	2.0	12.0	19.9	17.9	19.9
80°	33.9	29.9	8.0	0.0	0.0	0.0	2.0	12.0	19.9	19.9	21.9
82.5°	21.9	15.9	0.0	0.0	0.0	0.0	4.0	15.9	21.9	23.9	23.9
85°	10.0	0.0	0.0	0.0	0.0	0.0	8.0	19.9	25.9	25.9	25.9
87.5°	0.0	0.0	0.0	0.0	0.0	4.0	14.0	23.9	29.9	29.9	29.9
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°	8666.7	8666.7	8666.7	8666.7	8666.7	8666.7	8666.7	8666.7	8666.7	8666.7	8666.7
2.5°	7127.9	7253.5	7430.9	7704.0	7925.2	8274.1	8541.2	8905.9	9274.7	9386.3	9559.7
5°	5246.3	5407.7	5810.4	6177.1	6408.4	7145.9	7612.3	8347.8	9007.6	9324.5	9669.4
7.5°	3643.7	3835.1	4142.0	4654.3	5140.6	5740.6	6494.1	7335.2	8302.0	8754.4	9240.8
10°	2557.4	2796.6	3229.1	3649.7	4261.6	4831.7	5575.2	6504.0	7570.4	8104.6	8714.6
12.5°	1614.6	1827.8	2399.9	2872.3	3635.7	4297.5	4983.2	5824.3	7060.2	7608.3	8248.2
15°	922.9	1102.3	1369.4	1975.3	2822.5	3697.5	4552.6	5529.3	6799.1	7474.8	8166.4
17.5°	687.7	735.5	855.1	1198.0	1969.4	2991.9	4156.0	5439.6	6976.5	7769.8	8559.1
20°	578.0	609.9	665.8	801.3	1255.8	2304.2	3769.3	5455.6	7550.5	8547.1	9296.6
22.5°	518.3	538.2	584.0	671.7	857.1	1678.3	3316.8	5549.3	8246.2	9501.9	10367.0
25°	454.5	480.4	520.2	596.0	713.6	1164.1	2870.3	5758.6	9220.9	10713.8	11527.1
27.5°	404.6	428.6	468.4	538.2	625.9	889.0	2350.1	5938.0	10249.4	11933.7	12599.5
30°	354.8	378.7	418.6	474.4	554.1	719.6	1790.0	6043.6	11248.0	12848.6	13360.9
32.5°	312.9	332.9	370.7	420.6	486.4	609.9	1411.2	5934.0	12011.5	13679.8	14022.7
35°	271.1	295.0	326.9	372.7	430.5	520.2	1174.0	5555.2	12667.2	14534.9	14658.5
37.5°	227.2	255.1	289.0	330.9	376.7	478.4	942.8	5136.7	13368.9	15601.3	15398.0
40°	191.4	217.3	249.2	295.0	336.9	438.5	725.6	4690.2	14126.3	16602.0	16205.3
42.5°	155.5	183.4	221.3	263.1	332.9	382.7	562.1	4227.7	14806.0	17473.0	16934.8
45°	123.6	147.5	187.4	241.2	330.9	328.9	434.5	3771.3	15318.3	18094.9	17479.0
47.5°	97.7	117.6	157.5	235.2	305.0	279.1	348.8	3488.2	15856.5	18655.0	17895.6
50°	77.7	97.7	135.5	245.2	267.1	239.2	293.0	3534.1	16376.7	18940.1	18067.0
52.5°	65.8	85.7	117.6	193.3	205.3	209.3	257.1	3745.4	17048.5	19245.0	18407.9
55°	57.8	75.7	99.7	135.5	159.5	187.4	235.2	3898.8	17947.4	19898.8	19159.3
57.5°	45.8	65.8	89.7	115.6	131.6	163.4	217.3	3910.8	18760.7	20738.0	20158.0
59°	41.9	59.8	83.7	109.6	117.6	147.5	205.3	3809.1	18790.6	20863.6	20616.4
60°	37.9	57.8	79.7	101.7	111.6	139.5	195.3	3691.5	18519.5	20664.2	20805.8
62.5°	31.9	49.8	69.8	81.7	95.7	115.6	169.4	3265.0	17205.9	19761.3	20455.0
65°	27.9	43.9	59.8	67.8	79.7	99.7	149.5	2613.2	15754.8	18537.4	19450.3
67.5°	25.9	39.9	51.8	57.8	69.8	91.7	133.5	1845.8	13875.2	16984.7	17941.4
70°	23.9	37.9	45.8	53.8	61.8	77.7	113.6	1076.4	10687.9	14261.9	15272.4
72.5°	23.9	35.9	39.9	45.8	53.8	69.8	105.6	582.0	7307.3	10879.3	12184.9
75°	23.9	33.9	35.9	39.9	47.8	63.8	93.7	305.0	4724.1	7558.5	9328.5
77.5°	23.9	31.9	35.9	37.9	45.8	55.8	81.7	191.4	3147.4	5294.1	6304.7
80°	25.9	31.9	33.9	37.9	43.9	51.8	67.8	127.6	1849.8	3185.2	3837.0
82.5°	27.9	31.9	35.9	39.9	45.8	49.8	59.8	79.7	853.1	2106.9	2384.0
85°	29.9	33.9	37.9	41.9	47.8	49.8	55.8	57.8	139.5	950.8	1285.7
87.5°	31.9	35.9	39.9	43.9	51.8	51.8	51.8	51.8	47.8	101.7	259.1
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: P457106

CATALOG NUMBER: GALN-SA8B-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8666.7	8666.7	8666.7	8666.7	8666.7	8666.7	8666.7	8666.7	8666.7	8666.7
2.5°	9779.0	10004.2	10161.7	10201.6	10087.9	10036.1	9892.6	9669.4	9533.8	9527.8
5°	10305.2	10833.4	11200.2	11262.0	11042.7	10672.0	10231.5	9663.4	9330.5	9230.8
7.5°	10215.5	11140.4	11730.4	11816.1	11447.4	10739.7	9886.6	8971.7	8608.9	8455.5
10°	9846.8	10975.0	11818.1	11953.7	11461.3	10464.7	9380.3	8359.8	7909.3	7791.7
12.5°	9531.8	10672.0	11421.4	11608.8	11236.1	10241.4	9077.4	7967.1	7484.7	7375.1
15°	9394.3	10313.2	10771.6	10867.3	10805.5	10101.9	9045.5	7907.3	7355.2	7235.6
17.5°	9531.8	10008.2	10066.0	10163.7	10301.2	10087.9	9352.4	8232.2	7636.2	7488.7
20°	9892.6	9743.1	9503.9	9545.8	9860.7	10145.8	9898.6	8951.8	8226.2	8068.8
22.5°	10506.5	9677.3	9135.2	9099.3	9497.9	10339.1	10699.9	9926.5	9085.3	8929.9
25°	11260.0	9842.8	8999.6	8921.9	9356.4	10622.1	11570.9	11120.5	10201.6	9964.4
27.5°	12081.2	10185.6	8999.6	8923.9	9344.5	10873.3	12316.4	12176.9	11357.7	11098.5
30°	12531.7	10468.7	9129.2	9043.5	9492.0	11018.8	12715.1	13115.7	12226.7	11905.8
32.5°	12934.3	10861.3	9382.3	9220.9	9800.9	11234.1	13071.9	13913.0	12918.4	12703.1
35°	13305.1	11281.9	9731.2	9543.8	10207.5	11529.1	13466.5	14750.2	13881.1	13556.2
37.5°	13713.7	11770.3	10275.3	10115.9	10887.3	12103.1	13935.0	15850.5	14827.9	14419.3
40°	14158.2	12336.4	11170.3	11102.5	11967.6	12753.0	14527.0	17024.5	15908.3	15443.9
42.5°	14610.7	12988.2	12266.6	12378.2	13191.5	13663.9	15134.9	17927.5	16793.3	16281.0
45°	15021.3	13821.3	13691.8	14243.9	14618.7	14552.9	15585.4	18563.3	17564.7	17074.4
47.5°	15539.5	15035.2	15416.0	16267.1	16277.1	15519.6	15926.2	19083.6	18228.5	17738.1
50°	16119.6	16468.4	17642.4	18509.5	18276.3	16470.4	16324.9	19699.5	18914.2	18521.5
52.5°	16791.3	18073.0	19699.5	20662.3	20118.1	17506.9	16988.7	20365.3	20002.5	19625.8
55°	17572.7	19167.3	21750.6	22518.0	21969.8	18794.6	17997.3	21268.2	21232.3	20975.2
57.5°	18455.7	20323.4	22938.6	23977.1	23488.7	20305.5	19406.5	22119.3	21983.8	21840.3
59°	19153.3	20917.4	23462.8	24539.2	24244.2	21363.9	20353.3	22649.5	22157.2	21941.9
60°	19575.9	21320.0	23656.1	24614.9	24547.1	21993.8	20953.3	22908.7	22155.2	21856.2
62.5°	20829.7	22023.7	23582.4	24278.1	24543.2	23201.7	22713.3	23193.7	21744.6	21306.1
65°	21276.2	21790.4	22360.5	22274.8	22502.0	23139.9	23837.5	22880.8	20867.6	20243.7
67.5°	20407.1	19233.1	19434.4	18862.3	18750.7	20572.6	23381.1	21349.9	19151.4	18387.9
70°	17201.9	14734.3	14632.6	14895.7	14174.2	16655.8	20995.1	18401.9	16318.9	15453.8
72.5°	13540.3	10412.9	9555.7	10524.5	10502.5	12707.1	17441.1	13057.9	11024.8	10951.0
75°	10648.1	7249.5	6362.5	6520.0	6823.0	9198.9	13891.1	8292.0	6789.1	6187.1
77.5°	7147.9	5136.7	4791.8	4598.5	4925.4	5906.1	8788.3	4496.8	3807.1	3605.8
80°	4120.1	3731.4	4237.7	3847.0	4022.4	3721.4	4371.2	2063.0	1712.2	1853.7
82.5°	2681.0	2124.8	2264.4	1682.3	2300.2	2320.2	1403.3	609.9	516.3	548.1
85°	1676.3	996.6	560.1	398.7	793.3	1459.1	438.5	37.9	43.9	37.9
87.5°	434.5	165.4	69.8	103.7	127.6	113.6	101.7	6.0	2.0	4.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)