

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: P652345

Luminaire Tested: **GALN-SA4B-840-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652345
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-SA4B-840-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 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: 13595.6 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

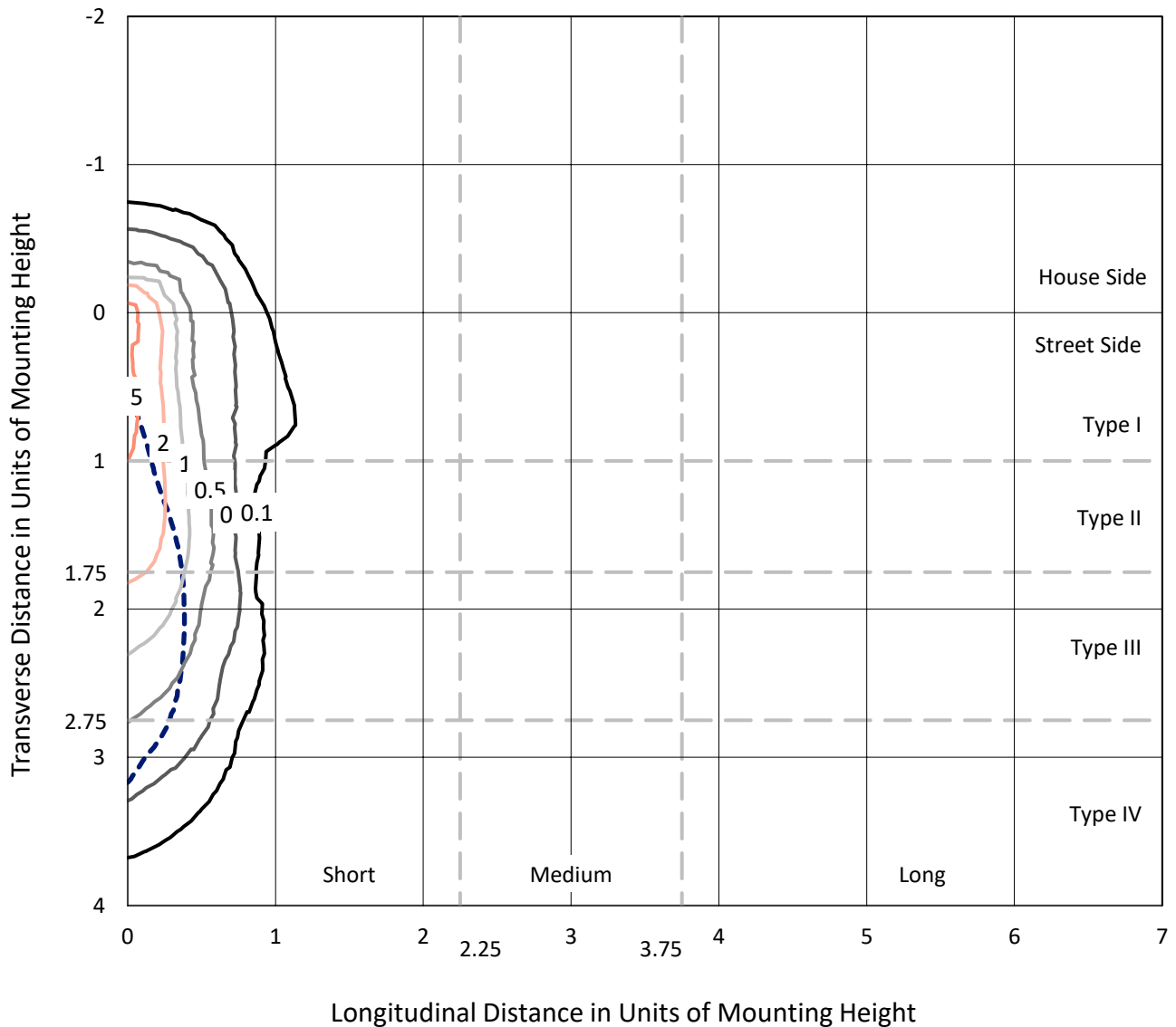
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

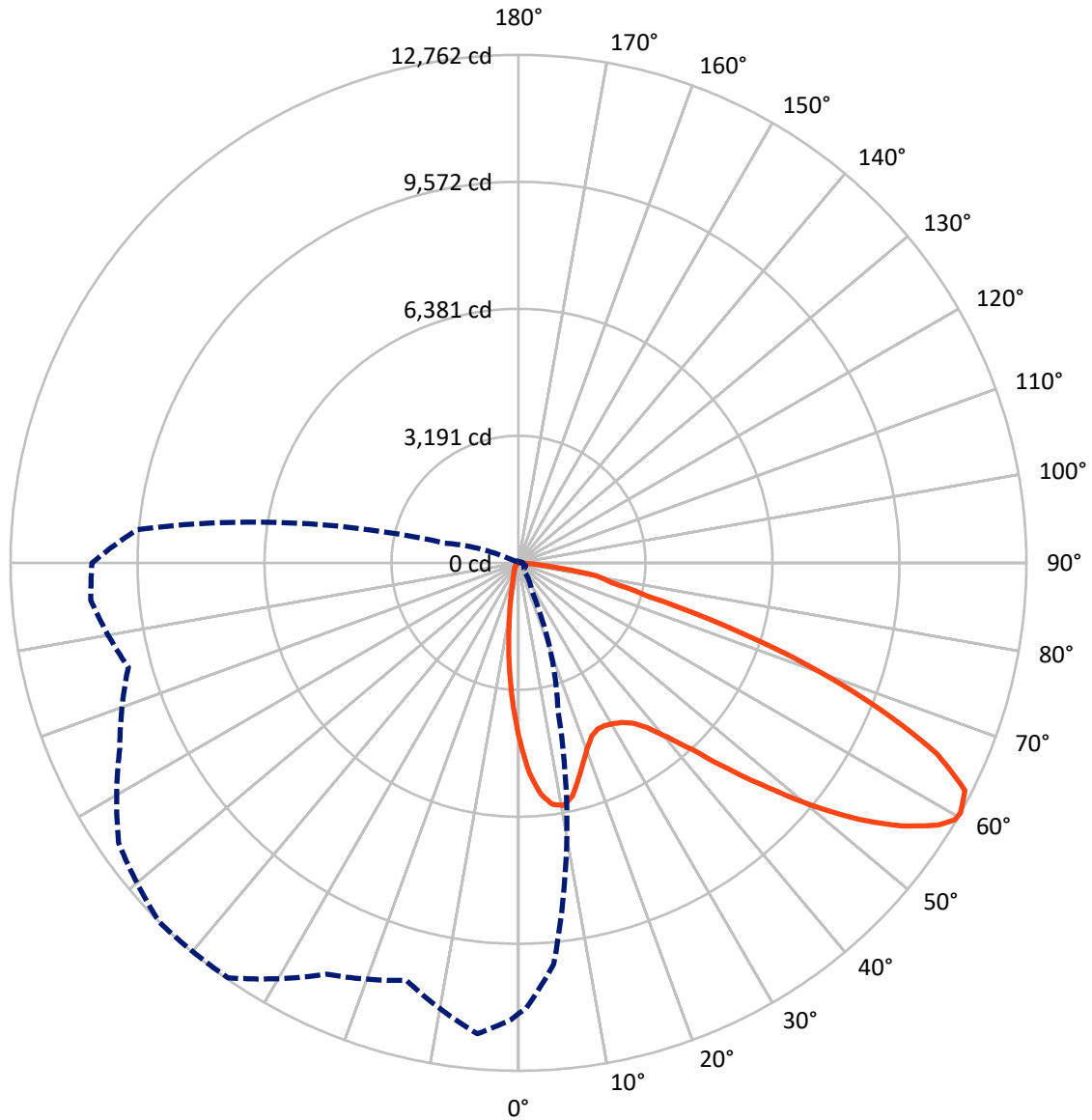
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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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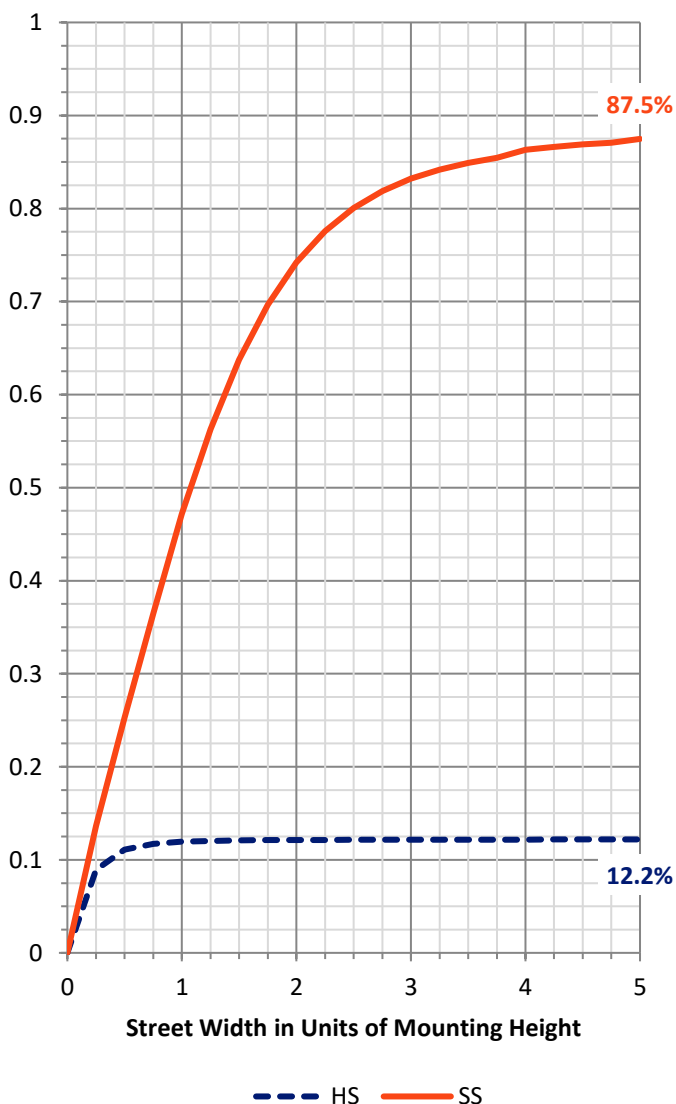
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1676.9	0.0	1676.9
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	11918.7	0.0	11918.7
	% Fixture	87.7	0.0	87.7
Total	Lumens	13595.6	0.0	13595.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.2	2.5
10°-20°	663.8	4.9
20°-30°	973.2	7.2
30°-40°	1447.4	10.6
40°-50°	2106.4	15.5
50°-60°	3037.6	22.3
60°-70°	3341.0	24.6
70°-80°	1496.5	11.0
80°-90°	195.5	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°	13595.6	100.0
0°-180°	13595.6	100.0

Coefficient of Utilization



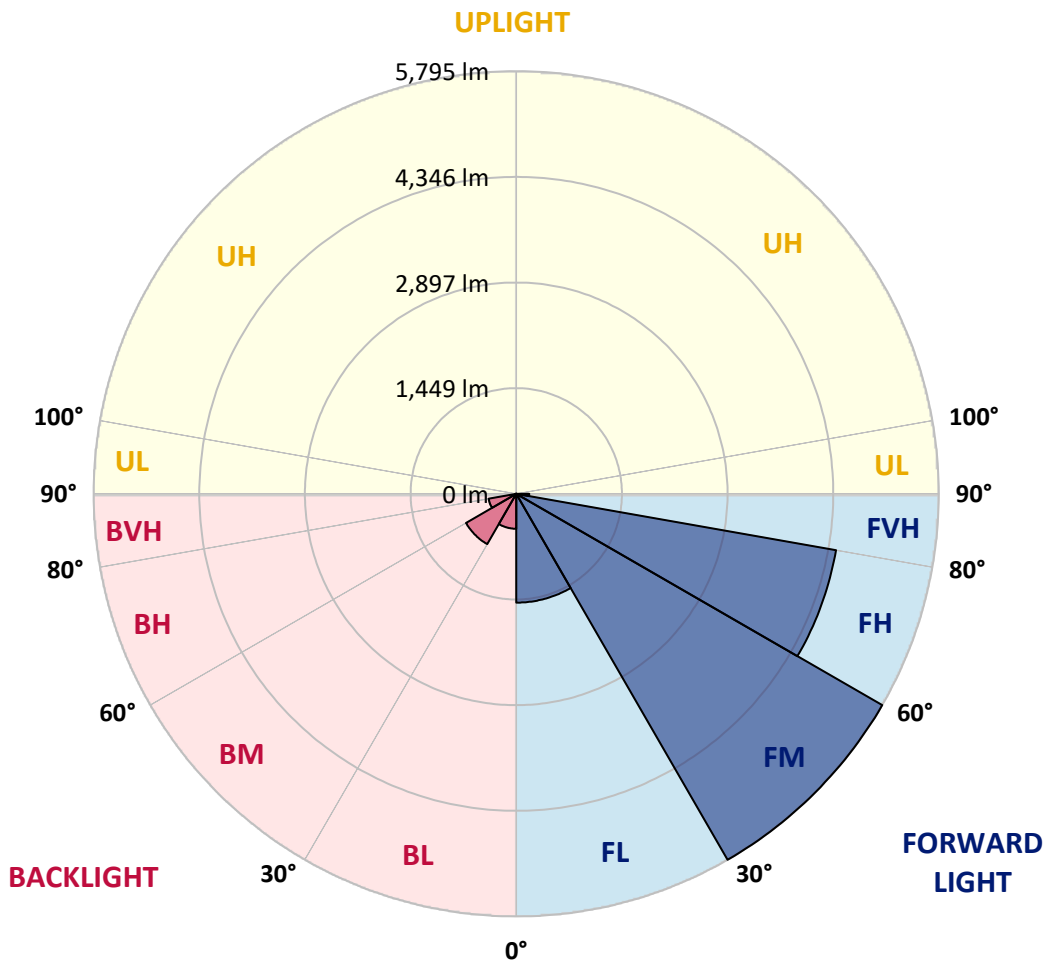
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1492.1	11.0			
FM (30°-60°)	5794.9	42.6			
FH (60°-80°)	4453.0	32.8			G2/5000
FVH (80°-90°)	178.8	1.3			G2/225
BL (0°-30°)	479.1	3.5	B1/500		
BM (30°-60°)	796.5	5.9	B1/1000		
BH (60°-80°)	384.5	2.8	B1/500		G1/500
BVH (80°-90°)	16.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4493.5	4493.5	4493.5	4493.5	4493.5	4493.5	4493.5	4493.5	4493.5	4493.5	4493.5
2.5°	4940.0	4918.3	4868.7	4717.8	4586.6	4415.0	4241.4	4104.9	4021.2	3867.3	3796.9
5°	4786.0	4796.4	4652.7	4342.7	3997.4	3761.9	3504.5	3299.9	3074.6	2932.0	2782.1
7.5°	4384.0	4363.4	4207.3	3775.2	3355.7	3014.6	2689.1	2424.5	2258.2	2124.8	2013.2
10°	4039.8	4024.4	3824.9	3268.9	2818.3	2563.0	2342.9	2111.4	1932.6	1737.3	1581.2
12.5°	3823.9	3788.7	3559.3	2978.5	2611.6	2373.9	2134.1	1893.3	1646.3	1449.0	1259.8
15°	3751.5	3700.9	3445.6	2878.2	2479.3	2177.5	1876.8	1599.8	1315.6	1097.6	955.0
17.5°	3882.7	3799.0	3527.2	2860.7	2321.2	1921.3	1551.2	1190.5	895.0	728.6	640.8
20°	4183.5	4087.4	3734.0	2843.1	2145.5	1633.9	1179.2	841.3	619.1	528.1	479.5
22.5°	4630.0	4497.7	4039.8	2871.0	1983.2	1353.8	851.6	594.3	491.9	435.1	401.0
25°	5166.3	5055.8	4427.4	2970.2	1855.1	1133.8	658.3	485.8	414.4	379.3	353.5
27.5°	5754.4	5577.7	4928.6	3089.1	1738.3	963.2	577.7	434.0	368.9	336.9	323.4
30°	6172.9	6035.5	5348.3	3171.7	1592.6	835.0	528.1	427.8	370.0	331.8	307.0
32.5°	6586.3	6410.6	5699.6	3209.9	1486.1	746.1	456.8	373.1	324.5	304.9	280.1
35°	7028.7	6844.7	6050.0	3189.3	1406.6	687.3	414.4	332.8	278.0	244.9	220.1
37.5°	7476.2	7281.9	6398.2	3114.9	1357.0	663.5	381.4	316.2	262.5	228.4	201.5
40°	8007.3	7748.0	6724.8	3053.9	1305.3	651.1	359.6	305.9	251.1	215.0	188.1
42.5°	8441.4	8194.5	7033.8	3021.9	1270.2	622.2	359.6	297.6	243.9	203.6	175.7
45°	8852.7	8596.4	7367.7	3047.7	1255.7	586.0	363.8	296.6	238.8	195.4	167.4
47.5°	9196.8	8974.6	7710.7	3144.8	1237.0	546.7	342.1	311.1	235.6	188.1	159.1
50°	9603.0	9388.1	8164.4	3341.2	1204.0	507.5	315.2	334.9	234.6	181.9	151.9
52.5°	10175.6	9943.1	8790.7	3564.4	1151.3	447.5	290.4	331.8	230.4	171.6	144.7
55°	10875.2	10687.2	9516.3	3832.1	1078.9	380.3	251.1	294.5	218.1	154.0	132.3
57.5°	11323.7	11163.6	10059.8	3947.9	968.3	311.1	221.2	247.0	199.5	137.4	117.8
59°	11376.5	11231.8	10173.5	3909.6	896.0	284.2	206.7	211.8	194.3	128.2	109.6
60°	11332.1	11182.2	10128.1	3835.2	828.8	265.6	194.3	188.1	195.4	123.0	103.4
62.5°	11046.8	10790.5	9686.7	3458.0	724.4	243.9	172.6	154.0	172.6	110.6	92.0
65°	10495.9	10111.5	8813.4	2926.8	683.1	231.5	146.8	129.2	131.3	97.1	79.6
67.5°	9533.8	9049.1	7650.8	2378.0	665.6	232.5	124.0	115.7	101.3	82.7	70.3
70°	8012.5	7528.9	6138.8	1956.3	657.3	232.5	105.4	99.2	84.8	69.2	61.0
72.5°	5677.9	5157.0	4141.2	1536.8	592.1	231.5	89.9	89.9	69.2	57.9	49.6
75°	3207.9	3212.0	2603.3	1087.2	491.9	191.2	72.3	71.3	50.6	44.4	37.2
77.5°	1869.5	1836.5	1754.8	467.1	228.4	86.8	50.6	43.4	35.2	32.0	26.9
80°	961.1	790.6	769.9	169.5	81.7	54.7	35.2	24.8	22.7	20.7	18.6
82.5°	284.2	285.3	254.2	68.2	45.5	36.2	17.6	13.5	12.4	11.4	11.4
85°	19.6	12.4	14.5	20.7	27.9	14.5	1.0	3.1	3.1	4.1	5.1
87.5°	2.1	1.0	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°	4493.5	4493.5	4493.5	4493.5	4493.5	4493.5	4493.5	4493.5	4493.5	4493.5	4493.5
2.5°	3719.5	3764.9	3680.2	3682.2	3612.0	3634.7	3552.0	3579.0	3530.3	3567.5	3677.1
5°	2798.7	2808.9	2740.7	2719.0	2729.4	2771.8	2788.3	2712.9	2744.9	2681.9	2677.7
7.5°	1971.9	1984.3	1945.0	1939.9	2014.3	1996.7	2028.7	1951.2	1877.8	1909.8	1851.0
10°	1531.6	1479.9	1399.3	1376.5	1362.1	1371.4	1371.4	1301.1	1290.8	1262.9	1305.3
12.5°	1209.2	1146.1	1069.7	966.3	940.5	938.4	900.1	838.1	818.5	794.7	829.9
15°	878.4	852.6	788.5	730.7	671.8	660.4	598.4	547.7	480.5	471.3	468.2
17.5°	618.1	579.8	578.8	545.6	511.6	488.9	430.9	373.1	347.2	344.1	344.1
20°	463.0	449.6	427.8	423.7	413.4	387.5	335.9	304.9	292.5	293.5	297.6
22.5°	389.6	380.3	360.7	351.4	347.2	324.5	286.3	265.6	259.4	259.4	260.5
25°	348.3	340.0	318.3	303.9	298.6	282.2	252.1	236.7	231.5	231.5	231.5
27.5°	317.3	307.0	284.2	271.8	262.5	243.9	225.3	209.8	204.6	204.6	205.6
30°	295.6	284.2	263.6	247.0	232.5	216.0	200.5	187.0	180.9	179.8	180.9
32.5°	266.6	256.3	235.6	225.3	208.7	189.1	176.7	164.3	158.1	159.1	158.1
35°	207.7	204.6	190.2	193.3	183.9	167.4	156.1	142.6	135.4	134.4	136.4
37.5°	189.1	176.7	160.2	161.2	158.1	151.9	133.3	118.8	113.7	113.7	114.7
40°	174.7	162.2	143.6	134.4	135.4	135.4	115.7	100.2	95.1	94.0	96.1
42.5°	162.2	149.9	129.2	113.7	109.6	114.7	98.1	82.7	77.5	75.4	77.5
45°	154.0	140.5	116.8	99.2	86.8	93.0	80.7	68.2	62.0	62.0	61.0
47.5°	145.7	133.3	107.5	85.8	72.3	69.2	66.1	54.7	48.6	47.5	48.6
50°	138.5	126.1	97.1	74.4	61.0	53.7	53.7	43.4	39.3	37.2	38.3
52.5°	131.3	117.8	87.9	66.1	52.7	43.4	38.3	35.2	32.0	31.0	32.0
55°	120.9	107.5	78.5	56.9	45.5	36.2	29.9	28.9	26.9	24.8	26.9
57.5°	108.5	96.1	69.2	48.6	36.2	27.9	24.8	23.8	21.7	20.7	20.7
59°	101.3	89.9	64.1	42.4	32.0	24.8	22.7	21.7	19.6	17.6	18.6
60°	97.1	87.9	61.0	39.3	28.9	22.7	20.7	19.6	17.6	16.6	17.6
62.5°	85.8	78.5	53.7	32.0	22.7	16.6	14.5	15.5	14.5	13.5	14.5
65°	75.4	69.2	45.5	24.8	17.6	11.4	10.3	13.5	12.4	11.4	12.4
67.5°	67.2	60.0	38.3	18.6	12.4	6.2	7.2	11.4	11.4	10.3	11.4
70°	57.9	51.6	31.0	13.5	6.2	3.1	5.1	8.2	10.3	9.3	10.3
72.5°	47.5	40.3	23.8	9.3	3.1	0.0	3.1	7.2	10.3	9.3	10.3
75°	37.2	29.9	17.6	5.1	0.0	0.0	1.0	6.2	10.3	9.3	10.3
77.5°	26.9	21.7	10.3	1.0	0.0	0.0	1.0	6.2	10.3	9.3	10.3
80°	17.6	15.5	4.1	0.0	0.0	0.0	1.0	6.2	10.3	10.3	11.4
82.5°	11.4	8.2	0.0	0.0	0.0	0.0	2.1	8.2	11.4	12.4	12.4
85°	5.1	0.0	0.0	0.0	0.0	0.0	4.1	10.3	13.5	13.5	13.5
87.5°	0.0	0.0	0.0	0.0	0.0	2.1	7.2	12.4	15.5	15.5	15.5
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°	4493.5	4493.5	4493.5	4493.5	4493.5	4493.5	4493.5	4493.5	4493.5	4493.5	4493.5
2.5°	3695.7	3760.8	3852.8	3994.4	4109.1	4289.9	4428.5	4617.6	4808.8	4866.6	4956.5
5°	2720.1	2803.8	3012.5	3202.7	3322.6	3705.0	3946.8	4328.2	4670.2	4834.6	5013.4
7.5°	1889.2	1988.4	2147.6	2413.2	2665.3	2976.4	3367.0	3803.2	4304.4	4539.0	4791.2
10°	1325.9	1450.0	1674.3	1892.2	2209.6	2505.2	2890.6	3372.2	3925.1	4202.1	4518.4
12.5°	837.1	947.7	1244.3	1489.2	1885.0	2228.1	2583.7	3019.8	3660.5	3944.8	4276.5
15°	478.5	571.5	710.0	1024.2	1463.4	1917.1	2360.4	2866.9	3525.1	3875.5	4234.1
17.5°	356.6	381.4	443.4	621.1	1021.1	1551.2	2154.8	2820.4	3617.1	4028.5	4437.7
20°	299.7	316.2	345.1	415.5	651.1	1194.7	1954.3	2828.6	3914.8	4431.6	4820.1
22.5°	268.7	279.0	302.8	348.3	444.4	870.2	1719.7	2877.2	4275.5	4926.6	5375.1
25°	235.6	249.1	269.7	309.0	370.0	603.6	1488.2	2985.7	4780.8	5554.9	5976.6
27.5°	209.8	222.2	242.9	279.0	324.5	461.0	1218.4	3078.7	5314.1	6187.4	6532.6
30°	183.9	196.4	217.1	246.0	287.3	373.1	928.0	3133.5	5831.9	6661.7	6927.4
32.5°	162.2	172.6	192.3	218.1	252.1	316.2	731.7	3076.6	6227.7	7092.7	7270.4
35°	140.5	153.0	169.5	193.3	223.2	269.7	608.7	2880.3	6567.7	7536.1	7600.2
37.5°	117.8	132.3	149.9	171.6	195.4	248.0	488.9	2663.3	6931.5	8089.0	7983.6
40°	99.2	112.6	129.2	153.0	174.7	227.3	376.2	2431.8	7324.2	8607.8	8402.2
42.5°	80.7	95.1	114.7	136.4	172.6	198.4	291.4	2192.0	7676.6	9059.4	8780.4
45°	64.1	76.4	97.1	125.1	171.6	170.6	225.3	1955.3	7942.2	9381.9	9062.5
47.5°	50.6	61.0	81.7	121.9	158.1	144.7	180.9	1808.6	8221.3	9672.3	9278.5
50°	40.3	50.6	70.3	127.2	138.5	124.0	151.9	1832.4	8491.0	9820.1	9367.4
52.5°	34.1	44.4	61.0	100.2	106.5	108.5	133.3	1941.9	8839.3	9978.2	9544.1
55°	29.9	39.3	51.6	70.3	82.7	97.1	121.9	2021.5	9305.4	10317.1	9933.7
57.5°	23.8	34.1	46.5	60.0	68.2	84.8	112.6	2027.7	9727.1	10752.3	10451.5
59°	21.7	31.0	43.4	56.9	61.0	76.4	106.5	1975.0	9742.6	10817.4	10689.2
60°	19.6	29.9	41.4	52.7	57.9	72.3	101.3	1914.0	9602.0	10714.0	10787.4
62.5°	16.6	25.8	36.2	42.4	49.6	60.0	87.9	1692.8	8920.9	10245.8	10605.5
65°	14.5	22.7	31.0	35.2	41.4	51.6	77.5	1354.9	8168.5	9611.3	10084.6
67.5°	13.5	20.7	26.9	29.9	36.2	47.5	69.2	957.0	7194.0	8806.2	9302.3
70°	12.4	19.6	23.8	27.9	32.0	40.3	58.9	558.1	5541.5	7394.5	7918.4
72.5°	12.4	18.6	20.7	23.8	27.9	36.2	54.7	301.8	3788.7	5640.7	6317.6
75°	12.4	17.6	18.6	20.7	24.8	33.1	48.6	158.1	2449.3	3918.9	4836.7
77.5°	12.4	16.6	18.6	19.6	23.8	28.9	42.4	99.2	1631.9	2744.9	3268.9
80°	13.5	16.6	17.6	19.6	22.7	26.9	35.2	66.1	959.1	1651.5	1989.5
82.5°	14.5	16.6	18.6	20.7	23.8	25.8	31.0	41.4	442.4	1092.4	1236.0
85°	15.5	17.6	19.6	21.7	24.8	25.8	28.9	29.9	72.3	493.0	666.6
87.5°	16.6	18.6	20.7	22.7	26.9	26.9	26.9	26.9	24.8	52.7	134.4
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: P652345

CATALOG NUMBER: GALN-SA4B-840-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4493.5	4493.5	4493.5	4493.5	4493.5	4493.5	4493.5	4493.5	4493.5	4493.5
2.5°	5070.2	5187.0	5268.6	5289.3	5230.4	5203.5	5129.1	5013.4	4943.1	4940.0
5°	5343.0	5617.0	5807.1	5839.1	5725.4	5533.2	5304.9	5010.3	4837.7	4786.0
7.5°	5296.5	5776.1	6082.0	6126.4	5935.3	5568.3	5126.1	4651.7	4463.6	4384.0
10°	5105.4	5690.3	6127.4	6197.7	5942.5	5425.7	4863.5	4334.3	4100.8	4039.8
12.5°	4942.1	5533.2	5921.8	6019.0	5825.7	5310.0	4706.4	4130.8	3880.7	3823.9
15°	4870.7	5347.2	5584.9	5634.5	5602.5	5237.7	4689.9	4099.8	3813.5	3751.5
17.5°	4942.1	5189.1	5219.1	5269.7	5341.0	5230.4	4849.0	4268.2	3959.3	3882.7
20°	5129.1	5051.6	4927.6	4949.3	5112.6	5260.4	5132.2	4641.3	4265.1	4183.5
22.5°	5447.4	5017.5	4736.4	4717.8	4924.5	5360.6	5547.7	5146.7	4710.6	4630.0
25°	5838.1	5103.3	4666.1	4625.8	4851.1	5507.4	5999.3	5765.7	5289.3	5166.3
27.5°	6263.9	5281.1	4666.1	4626.8	4844.9	5637.6	6385.8	6313.5	5888.8	5754.4
30°	6497.5	5427.8	4733.3	4688.8	4921.4	5713.1	6592.5	6800.2	6339.3	6172.9
32.5°	6706.2	5631.4	4864.6	4780.8	5081.6	5824.7	6777.5	7213.7	6698.0	6586.3
35°	6898.5	5849.5	5045.4	4948.3	5292.4	5977.6	6982.2	7647.7	7197.1	7028.7
37.5°	7110.3	6102.6	5327.6	5244.9	5644.8	6275.3	7225.0	8218.2	7688.0	7476.2
40°	7340.8	6396.1	5791.5	5756.5	6205.0	6612.2	7531.9	8826.9	8248.2	8007.3
42.5°	7575.4	6734.1	6360.0	6417.8	6839.5	7084.5	7847.2	9295.1	8707.0	8441.4
45°	7788.2	7166.1	7099.0	7385.2	7579.5	7545.4	8080.7	9624.7	9106.9	8852.7
47.5°	8056.9	7795.5	7992.9	8434.1	8439.4	8046.6	8257.4	9894.4	9451.1	9196.8
50°	8357.7	8538.6	9147.3	9596.8	9475.9	8539.6	8464.2	10213.8	9806.6	9603.0
52.5°	8705.9	9370.5	10213.8	10713.0	10430.8	9077.0	8808.3	10559.0	10370.9	10175.6
55°	9111.1	9937.8	11277.2	11675.2	11390.9	9744.6	9331.2	11027.2	11008.5	10875.2
57.5°	9568.9	10537.3	11893.2	12431.7	12178.4	10528.0	10061.9	11468.5	11398.2	11323.7
59°	9930.6	10845.3	12165.0	12723.1	12570.2	11076.7	10552.8	11743.4	11488.1	11376.5
60°	10149.8	11054.0	12265.2	12762.3	12727.2	11403.4	10863.9	11877.7	11487.1	11332.1
62.5°	10799.8	11418.8	12227.0	12587.7	12725.2	12029.7	11776.4	12025.5	11274.2	11046.8
65°	11031.3	11297.9	11593.5	11549.0	11666.9	11997.6	12359.3	11863.2	10819.5	10495.9
67.5°	10580.7	9972.0	10076.4	9779.7	9721.9	10666.5	12122.7	11069.5	9929.6	9533.8
70°	8918.9	7639.5	7586.7	7723.2	7349.0	8635.7	10885.6	9541.1	8461.0	8012.5
72.5°	7020.4	5398.9	4954.5	5456.7	5445.4	6588.4	9042.9	6770.3	5716.1	5677.9
75°	5520.8	3758.8	3298.8	3380.5	3537.6	4769.5	7202.2	4299.3	3520.0	3207.9
77.5°	3706.0	2663.3	2484.5	2384.2	2553.7	3062.2	4556.6	2331.5	1973.9	1869.5
80°	2136.2	1934.6	2197.2	1994.6	2085.5	1929.5	2266.4	1069.7	887.8	961.1
82.5°	1390.0	1101.7	1174.0	872.3	1192.6	1203.0	727.5	316.2	267.7	284.2
85°	869.2	516.7	290.4	206.7	411.3	756.5	227.3	19.6	22.7	19.6
87.5°	225.3	85.8	36.2	53.7	66.1	58.9	52.7	3.1	1.0	2.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)