

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: P651410

Luminaire Tested: **GALN-SA5D-840-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651410
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-SA5D-840-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 1200mA 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: 23398.3 lumens
Efficiency: N/A
Efficacy: 75.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

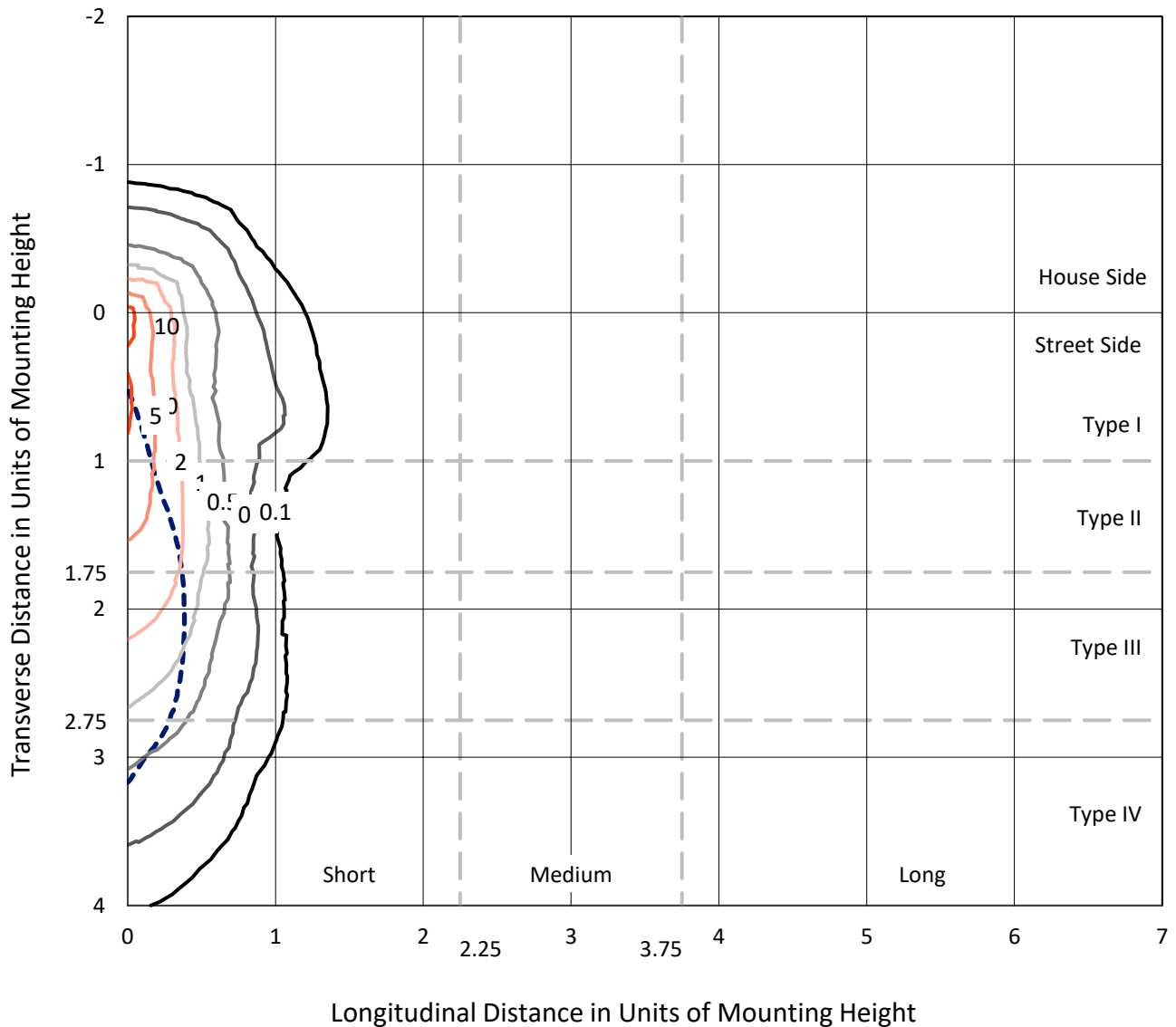
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

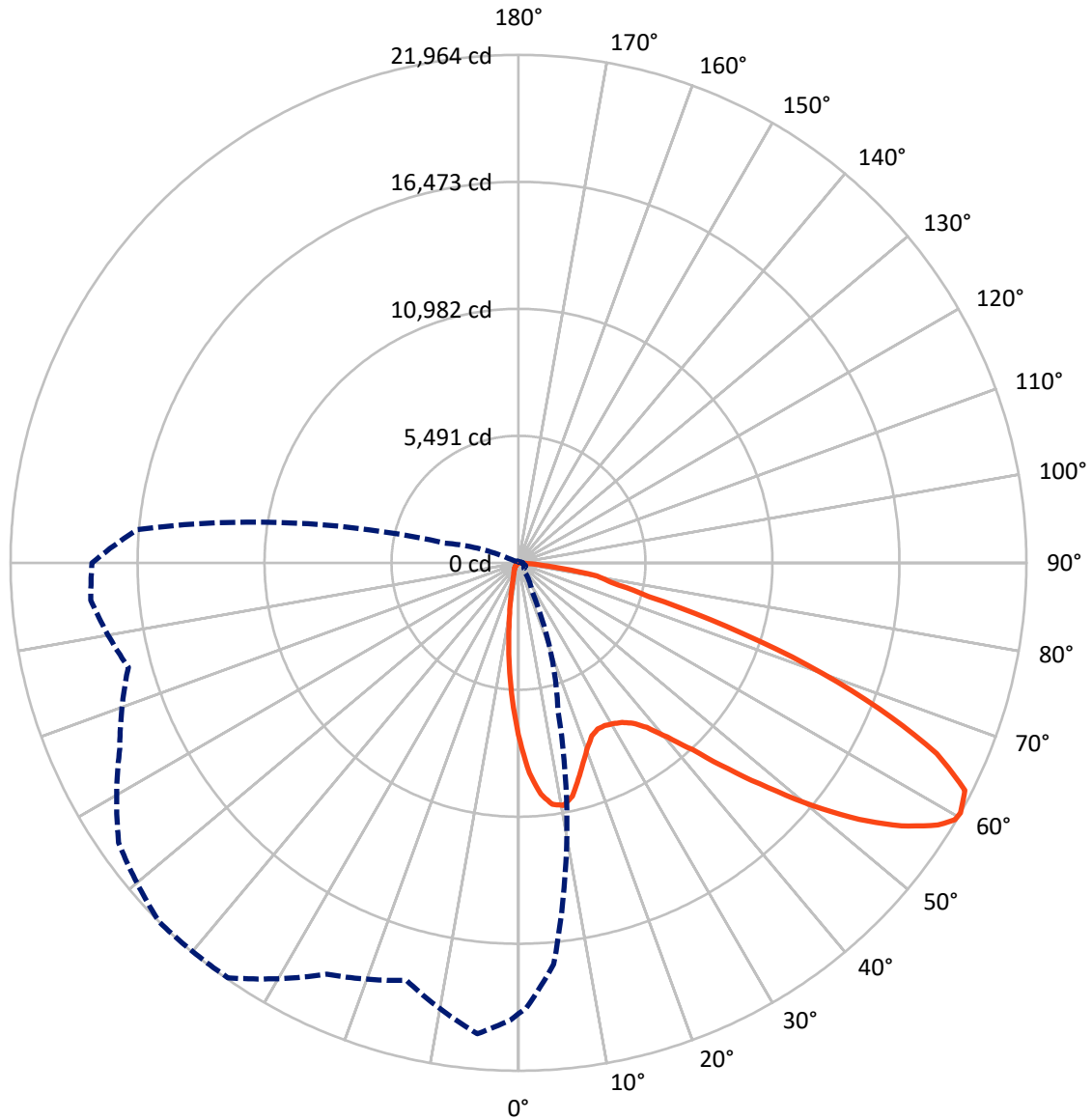
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 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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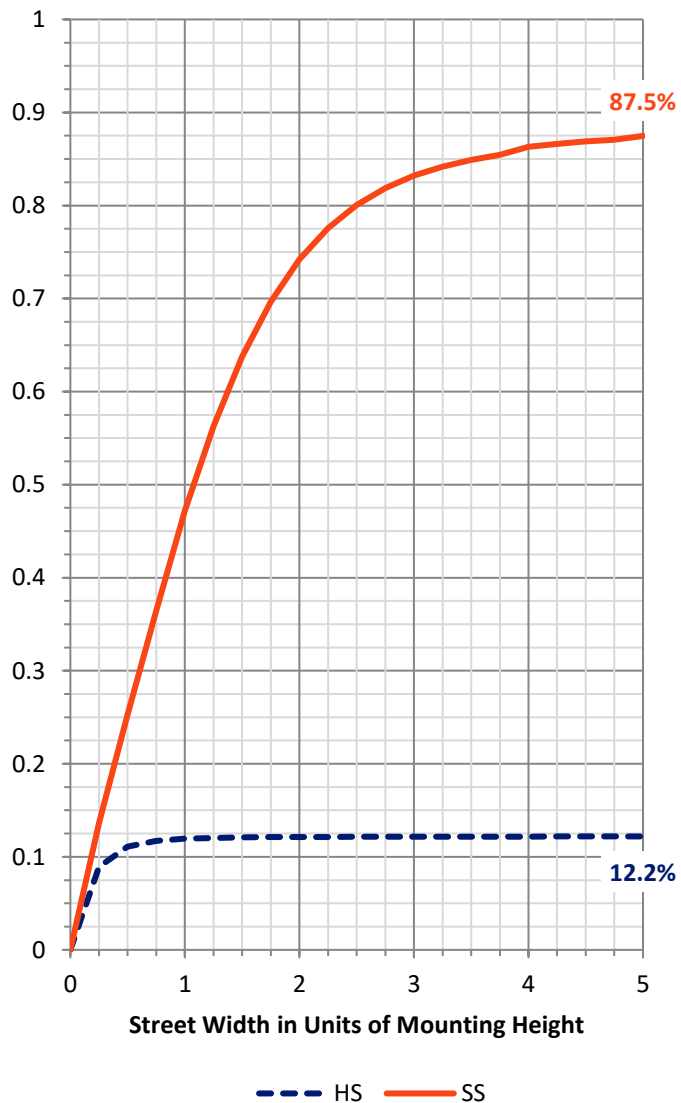
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2885.9	0.0	2885.9
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	20512.4	0.0	20512.4
	% Fixture	87.7	0.0	87.7
Total	Lumens	23398.3	0.0	23398.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	575.2	2.5
10°-20°	1142.3	4.9
20°-30°	1675.0	7.2
30°-40°	2491.0	10.6
40°-50°	3625.1	15.5
50°-60°	5227.7	22.3
60°-70°	5749.9	24.6
70°-80°	2575.5	11.0
80°-90°	336.5	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°	23398.3	100.0
0°-180°	23398.3	100.0

Coefficient of Utilization

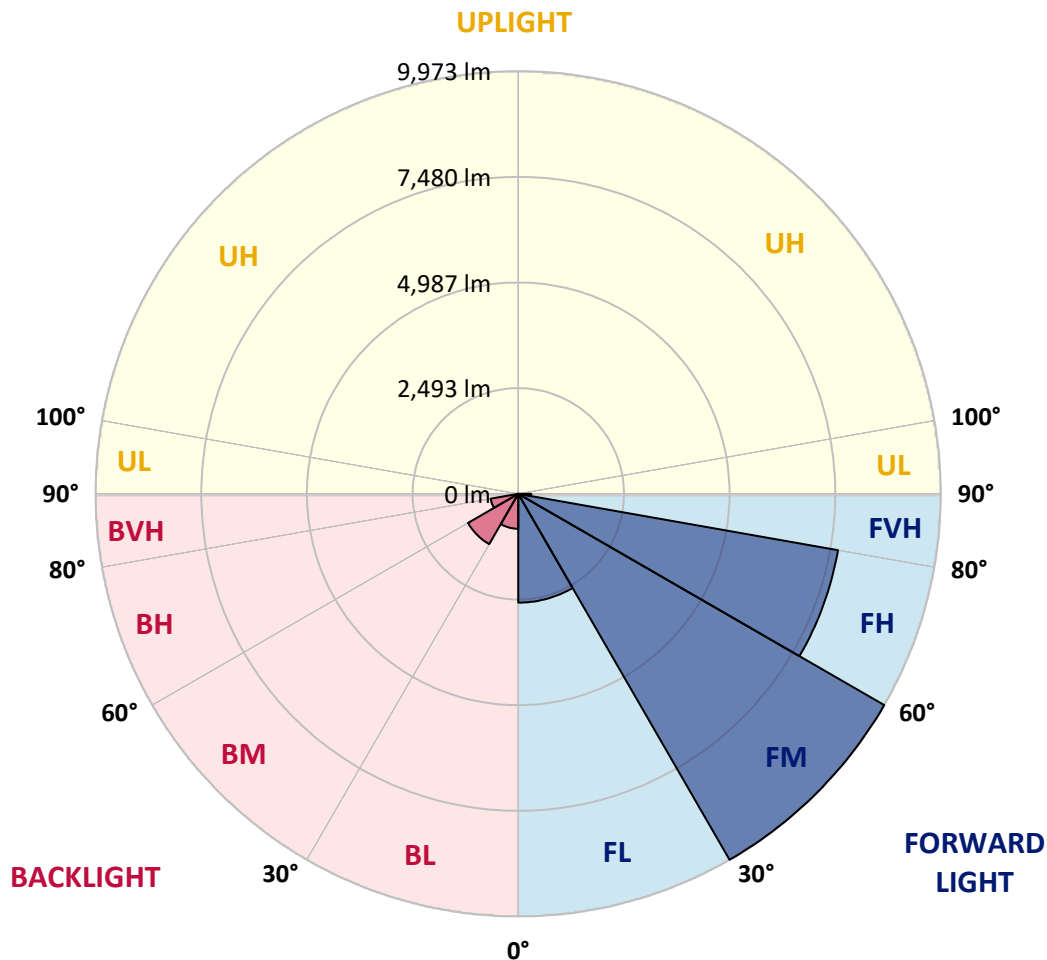


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2567.9	11.0			
FM (30°-60°)	9973.1	42.6			
FH (60°-80°)	7663.6	32.8			G4/12000
FVH (80°-90°)	307.8	1.3			G3/500
BL (0°-30°)	824.6	3.5	B2/1000		
BM (30°-60°)	1370.8	5.9	B2/2500		
BH (60°-80°)	661.8	2.8	B2/1000		G2/1000
BVH (80°-90°)	28.8	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°	7733.5	7733.5	7733.5	7733.5	7733.5	7733.5	7733.5	7733.5	7733.5	7733.5	7733.5
2.5°	8501.8	8464.5	8379.1	8119.4	7893.5	7598.3	7299.5	7064.7	6920.7	6655.6	6534.7
5°	8236.8	8254.6	8007.4	7473.8	6879.7	6474.2	6031.3	5679.2	5291.4	5046.0	4788.1
7.5°	7544.9	7509.4	7240.8	6497.3	5775.2	5188.3	4628.0	4172.6	3886.3	3656.8	3464.8
10°	6952.6	6926.0	6582.7	5625.8	4850.3	4411.0	4032.2	3633.7	3326.1	2989.8	2721.3
12.5°	6580.9	6520.4	6125.6	5126.0	4494.6	4085.5	3672.9	3258.5	2833.3	2493.6	2168.2
15°	6456.4	6369.2	5930.0	4953.5	4266.9	3747.6	3230.0	2753.3	2264.2	1888.9	1643.5
17.5°	6682.3	6538.3	6070.4	4923.2	3994.8	3306.5	2669.8	2049.0	1540.3	1253.9	1102.7
20°	7199.9	7034.5	6426.2	4893.0	3692.4	2812.1	2029.4	1447.8	1065.4	908.9	825.3
22.5°	7968.2	7740.6	6952.6	4941.0	3413.2	2330.0	1465.6	1022.7	846.6	748.8	690.1
25°	8891.4	8701.1	7619.6	5111.8	3192.6	1951.1	1133.0	836.0	713.3	652.8	608.3
27.5°	9903.4	9599.3	8482.2	5316.3	2991.7	1657.7	994.2	747.1	635.0	579.9	556.7
30°	10623.8	10387.2	9204.4	5458.6	2740.9	1437.1	908.9	736.4	636.7	571.0	528.2
32.5°	11335.2	11032.8	9809.2	5524.4	2557.6	1284.2	786.2	642.1	558.5	524.7	482.0
35°	12096.4	11779.9	10412.1	5488.9	2420.7	1182.8	713.3	572.7	478.4	421.5	378.9
37.5°	12866.6	12532.2	11011.5	5360.8	2335.4	1141.9	656.3	544.3	451.8	393.1	346.8
40°	13780.8	13334.4	11573.5	5255.8	2246.4	1120.5	619.0	526.5	432.2	370.0	323.7
42.5°	14527.9	14102.7	12105.4	5200.7	2185.9	1070.8	619.0	512.3	419.7	350.4	302.3
45°	15235.7	14794.6	12679.8	5245.1	2161.0	1008.4	626.0	510.5	410.8	336.1	288.1
47.5°	15828.0	15445.6	13270.3	5412.3	2129.0	940.9	588.7	535.4	405.5	323.7	273.9
50°	16527.0	16157.0	14051.2	5750.3	2072.1	873.3	542.4	576.3	403.8	313.0	261.5
52.5°	17512.4	17112.2	15129.0	6134.5	1981.4	770.2	499.8	571.0	396.6	295.3	249.0
55°	18716.5	18392.8	16377.6	6595.1	1856.9	654.6	432.2	506.9	375.3	265.0	227.7
57.5°	19488.4	19212.7	17313.2	6794.4	1666.6	535.4	380.6	425.1	343.3	236.6	202.8
59°	19579.2	19330.1	17508.8	6728.6	1542.1	489.1	355.7	364.7	334.4	220.5	188.6
60°	19502.6	19244.8	17430.6	6600.5	1426.4	457.1	334.4	323.7	336.1	211.7	177.9
62.5°	19011.7	18570.6	16671.1	5951.3	1246.8	419.7	297.0	265.0	297.0	190.3	158.3
65°	18063.8	17402.1	15168.1	5037.1	1175.6	398.4	252.6	222.4	225.9	167.2	136.9
67.5°	16407.8	15573.6	13167.2	4092.6	1145.4	400.2	213.4	199.2	174.3	142.3	120.9
70°	13789.7	12957.3	10565.1	3366.9	1131.2	400.2	181.4	170.7	145.8	119.2	105.0
72.5°	9771.7	8875.3	7127.0	2644.9	1019.1	398.4	154.7	154.7	119.2	99.6	85.4
75°	5520.8	5528.0	4480.3	1871.1	846.6	329.1	124.5	122.7	87.1	76.4	64.0
77.5°	3217.5	3160.6	3020.1	803.9	393.1	149.4	87.1	74.7	60.5	55.2	46.3
80°	1654.2	1360.7	1325.1	291.7	140.5	94.3	60.5	42.7	39.1	35.6	32.0
82.5°	489.1	490.9	437.6	117.4	78.3	62.2	30.3	23.1	21.4	19.6	19.6
85°	33.8	21.4	24.9	35.6	48.0	24.9	1.8	5.3	5.3	7.1	8.9
87.5°	3.5	1.8	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°	7733.5	7733.5	7733.5	7733.5	7733.5	7733.5	7733.5	7733.5	7733.5	7733.5	7733.5
2.5°	6401.3	6479.6	6333.7	6337.3	6216.3	6255.4	6113.1	6159.4	6075.8	6139.8	6328.4
5°	4816.5	4834.3	4716.9	4679.6	4697.3	4770.3	4798.7	4668.9	4724.1	4615.6	4608.4
7.5°	3393.6	3415.0	3347.3	3338.5	3466.5	3436.3	3491.4	3358.0	3231.8	3286.9	3185.5
10°	2635.9	2547.0	2408.3	2369.1	2344.2	2360.3	2360.3	2239.3	2221.5	2173.5	2246.4
12.5°	2081.0	1972.5	1840.9	1663.0	1618.6	1615.0	1549.2	1442.5	1408.7	1367.8	1428.3
15°	1511.9	1467.4	1357.1	1257.5	1156.1	1136.5	1029.8	942.7	827.0	811.1	805.7
17.5°	1063.6	997.8	996.0	939.1	880.4	841.3	741.7	642.1	597.6	592.3	592.3
20°	796.8	773.7	736.4	729.2	711.5	667.0	578.0	524.7	503.3	505.1	512.3
22.5°	670.5	654.6	620.7	604.8	597.6	558.5	492.7	457.1	446.4	446.4	448.3
25°	599.4	585.2	547.8	522.9	514.0	485.6	434.0	407.3	398.4	398.4	398.4
27.5°	546.1	528.2	489.1	467.8	451.8	419.7	387.7	361.0	352.1	352.1	354.0
30°	508.7	489.1	453.6	425.1	400.2	371.7	345.1	321.9	311.3	309.5	311.3
32.5°	458.8	441.1	405.5	387.7	359.3	325.5	304.1	282.8	272.1	273.9	272.1
35°	357.5	352.1	327.2	332.6	316.6	288.1	268.5	245.5	233.0	231.2	234.8
37.5°	325.5	304.1	275.7	277.4	272.1	261.5	229.4	204.5	195.6	195.6	197.5
40°	300.6	279.2	247.3	231.2	233.0	233.0	199.2	172.5	163.7	161.9	165.4
42.5°	279.2	257.9	222.4	195.6	188.6	197.5	169.0	142.3	133.4	129.9	133.4
45°	265.0	241.9	201.0	170.7	149.4	160.0	138.8	117.4	106.7	106.7	105.0
47.5°	250.8	229.4	184.9	147.6	124.5	119.2	113.9	94.3	83.6	81.8	83.6
50°	238.3	217.0	167.2	128.1	105.0	92.5	92.5	74.7	67.6	64.0	65.9
52.5°	225.9	202.8	151.2	113.9	90.7	74.7	65.9	60.5	55.2	53.3	55.2
55°	208.1	184.9	135.1	97.8	78.3	62.2	51.6	49.8	46.3	42.7	46.3
57.5°	186.8	165.4	119.2	83.6	62.2	48.0	42.7	40.9	37.3	35.6	35.6
59°	174.3	154.7	110.3	72.9	55.2	42.7	39.1	37.3	33.8	30.3	32.0
60°	167.2	151.2	105.0	67.6	49.8	39.1	35.6	33.8	30.3	28.4	30.3
62.5°	147.6	135.1	92.5	55.2	39.1	28.4	24.9	26.7	24.9	23.1	24.9
65°	129.9	119.2	78.3	42.7	30.3	19.6	17.7	23.1	21.4	19.6	21.4
67.5°	115.6	103.2	65.9	32.0	21.4	10.7	12.4	19.6	19.6	17.7	19.6
70°	99.6	88.9	53.3	23.1	10.7	5.3	8.9	14.2	17.7	16.0	17.7
72.5°	81.8	69.4	40.9	16.0	5.3	0.0	5.3	12.4	17.7	16.0	17.7
75°	64.0	51.6	30.3	8.9	0.0	0.0	1.8	10.7	17.7	16.0	17.7
77.5°	46.3	37.3	17.7	1.8	0.0	0.0	1.8	10.7	17.7	16.0	17.7
80°	30.3	26.7	7.1	0.0	0.0	0.0	1.8	10.7	17.7	17.7	19.6
82.5°	19.6	14.2	0.0	0.0	0.0	0.0	3.5	14.2	19.6	21.4	21.4
85°	8.9	0.0	0.0	0.0	0.0	0.0	7.1	17.7	23.1	23.1	23.1
87.5°	0.0	0.0	0.0	0.0	0.0	3.5	12.4	21.4	26.7	26.7	26.7
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°	7733.5	7733.5	7733.5	7733.5	7733.5	7733.5	7733.5	7733.5	7733.5	7733.5	7733.5
2.5°	6360.4	6472.4	6630.7	6874.4	7071.8	7383.1	7621.4	7946.9	8275.9	8375.5	8530.3
5°	4681.3	4825.4	5184.7	5512.0	5718.3	6376.4	6792.6	7448.9	8037.6	8320.4	8628.2
7.5°	3251.3	3422.1	3696.0	4153.1	4587.1	5122.4	5794.7	6545.3	7407.9	7811.7	8245.8
10°	2282.0	2495.4	2881.4	3256.7	3802.7	4311.4	4974.9	5803.7	6755.2	7231.9	7776.1
12.5°	1440.7	1631.0	2141.4	2563.0	3244.2	3834.7	4446.5	5197.1	6299.9	6789.1	7359.9
15°	823.5	983.5	1221.9	1762.7	2518.5	3299.3	4062.4	4933.9	6066.9	6669.9	7287.0
17.5°	613.6	656.3	763.0	1069.0	1757.3	2669.8	3708.5	4853.9	6225.2	6933.1	7637.5
20°	515.8	544.3	594.1	715.0	1120.5	2056.1	3363.4	4868.1	6737.4	7626.8	8295.5
22.5°	462.5	480.2	521.2	599.4	764.8	1497.6	2959.6	4951.7	7358.2	8478.7	9250.7
25°	405.5	428.7	464.2	531.8	636.7	1038.7	2561.3	5138.4	8227.9	9560.2	10285.8
27.5°	361.0	382.4	418.0	480.2	558.5	793.2	2097.0	5298.6	9145.7	10648.7	11242.7
30°	316.6	337.9	373.5	423.3	494.4	642.1	1597.2	5392.8	10036.8	11465.0	11922.1
32.5°	279.2	297.0	330.8	375.3	434.0	544.3	1259.2	5294.9	10718.0	12206.7	12512.7
35°	241.9	263.2	291.7	332.6	384.2	464.2	1047.6	4957.0	11303.2	12969.7	13080.0
37.5°	202.8	227.7	257.9	295.3	336.1	426.9	841.3	4583.5	11929.2	13921.3	13739.9
40°	170.7	193.9	222.4	263.2	300.6	391.3	647.4	4185.2	12605.2	14814.2	14460.2
42.5°	138.8	163.7	197.5	234.8	297.0	341.5	501.6	3772.5	13211.6	15591.5	15111.3
45°	110.3	131.6	167.2	215.2	295.3	293.5	387.7	3365.2	13668.8	16146.4	15596.8
47.5°	87.1	105.0	140.5	209.9	272.1	249.0	311.3	3112.6	14149.0	16646.2	15968.5
50°	69.4	87.1	120.9	218.7	238.3	213.4	261.5	3153.5	14613.2	16900.5	16121.5
52.5°	58.7	76.4	105.0	172.5	183.2	186.8	229.4	3342.0	15212.6	17172.6	16425.7
55°	51.6	67.6	88.9	120.9	142.3	167.2	209.9	3479.0	16014.7	17756.0	17096.2
57.5°	40.9	58.7	80.1	103.2	117.4	145.8	193.9	3489.6	16740.4	18504.9	17987.2
59°	37.3	53.3	74.7	97.8	105.0	131.6	183.2	3399.0	16767.1	18616.9	18396.4
60°	33.8	51.6	71.1	90.7	99.6	124.5	174.3	3294.0	16525.2	18439.0	18565.3
62.5°	28.4	44.5	62.2	72.9	85.4	103.2	151.2	2913.4	15353.1	17633.3	18252.3
65°	24.9	39.1	53.3	60.5	71.1	88.9	133.4	2331.8	14058.2	16541.2	17355.9
67.5°	23.1	35.6	46.3	51.6	62.2	81.8	119.2	1647.0	12381.0	15155.7	16009.4
70°	21.4	33.8	40.9	48.0	55.2	69.4	101.3	960.4	9537.0	12726.1	13627.8
72.5°	21.4	32.0	35.6	40.9	48.0	62.2	94.3	519.3	6520.4	9707.7	10872.8
75°	21.4	30.3	32.0	35.6	42.7	56.9	83.6	272.1	4215.3	6744.6	8324.0
77.5°	21.4	28.4	32.0	33.8	40.9	49.8	72.9	170.7	2808.4	4724.1	5625.8
80°	23.1	28.4	30.3	33.8	39.1	46.3	60.5	113.9	1650.5	2842.2	3423.9
82.5°	24.9	28.4	32.0	35.6	40.9	44.5	53.3	71.1	761.3	1880.0	2127.2
85°	26.7	30.3	33.8	37.3	42.7	44.5	49.8	51.6	124.5	848.4	1147.2
87.5°	28.4	32.0	35.6	39.1	46.3	46.3	46.3	46.3	42.7	90.7	231.2
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: P651410

CATALOG NUMBER: GALN-SA5D-840-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7733.5	7733.5	7733.5	7733.5	7733.5	7733.5	7733.5	7733.5	7733.5	7733.5
2.5°	8726.0	8927.0	9067.4	9103.0	9001.6	8955.4	8827.3	8628.2	8507.1	8501.8
5°	9195.5	9666.9	9994.1	10049.3	9853.6	9522.8	9129.7	8622.8	8325.7	8236.8
7.5°	9115.4	9940.8	10467.3	10543.7	10214.6	9583.3	8822.0	8005.6	7681.9	7544.9
10°	8786.4	9793.1	10545.5	10666.4	10227.1	9337.8	8370.2	7459.6	7057.6	6952.6
12.5°	8505.4	9522.8	10191.6	10358.8	10026.1	9138.6	8099.8	7109.1	6678.7	6580.9
15°	8382.7	9202.6	9611.7	9697.1	9642.0	9014.1	8071.4	7055.8	6563.2	6456.4
17.5°	8505.4	8930.5	8982.0	9069.3	9192.0	9001.6	8345.3	7345.7	6814.0	6682.3
20°	8827.3	8693.9	8480.5	8517.8	8798.9	9053.2	8832.7	7987.8	7340.4	7199.9
22.5°	9375.1	8635.2	8151.5	8119.4	8475.2	9225.8	9547.7	8857.6	8107.0	7968.2
25°	10047.4	8782.9	8030.5	7961.2	8348.9	9478.3	10325.0	9923.0	9103.0	8891.4
27.5°	10780.3	9088.8	8030.5	7962.9	8338.2	9702.4	10990.1	10865.6	10134.6	9903.4
30°	11182.3	9341.3	8146.1	8069.6	8469.8	9832.2	11345.8	11703.4	10910.1	10623.8
32.5°	11541.5	9691.8	8372.0	8227.9	8745.5	10024.4	11664.2	12414.8	11527.3	11335.2
35°	11872.3	10067.0	8683.2	8516.1	9108.4	10287.6	12016.4	13161.8	12386.3	12096.4
37.5°	12237.0	10502.8	9168.8	9026.5	9714.9	10799.8	12434.4	14143.7	13231.2	12866.6
40°	12633.6	11007.9	9967.4	9907.0	10678.8	11379.7	12962.7	15191.2	14195.2	13780.8
42.5°	13037.4	11589.6	10945.7	11045.3	11771.0	12192.5	13505.1	15997.0	14984.9	14527.9
45°	13403.8	12333.0	12217.4	12710.0	13044.4	12985.8	13907.1	16564.3	15673.3	15235.7
47.5°	13866.2	13416.2	13755.9	14515.4	14524.2	13848.4	14211.2	17028.6	16265.5	15828.0
50°	14383.8	14695.0	15742.6	16516.3	16308.3	14696.8	14567.0	17578.2	16877.4	16527.0
52.5°	14983.2	16126.8	17578.2	18437.2	17951.6	15621.7	15159.3	18172.2	17848.5	17512.4
55°	15680.4	17103.2	19408.3	20093.2	19604.0	16770.7	16059.2	18977.9	18946.0	18716.5
57.5°	16468.3	18134.9	20468.4	21395.1	20959.3	18118.8	17316.7	19737.4	19616.5	19488.4
59°	17090.8	18664.9	20936.2	21896.7	21633.5	19063.4	18161.6	20210.6	19771.2	19579.2
60°	17467.9	19024.2	21108.8	21964.3	21903.8	19625.4	18696.9	20441.8	19769.5	19502.6
62.5°	18586.7	19652.1	21042.9	21663.7	21900.2	20703.2	20267.4	20696.1	19403.0	19011.7
65°	18985.1	19443.9	19952.6	19876.2	20079.0	20648.1	21270.6	20416.9	18620.4	18063.8
67.5°	18209.6	17162.0	17341.6	16831.2	16731.5	18357.2	20863.3	19050.9	17089.0	16407.8
70°	15349.6	13147.6	13056.9	13291.7	12647.8	14862.2	18734.3	16420.3	14561.7	13789.7
72.5°	12082.2	9291.5	8526.7	9391.2	9371.6	11338.8	15563.0	11651.8	9837.6	9771.7
75°	9501.4	6468.9	5677.3	5817.9	6088.3	8208.3	12395.2	7399.1	6058.0	5520.8
77.5°	6378.1	4583.5	4275.8	4103.3	4395.0	5270.0	7842.0	4012.6	3397.2	3217.5
80°	3676.4	3329.6	3781.4	3432.7	3589.3	3320.7	3900.6	1840.9	1527.8	1654.2
82.5°	2392.2	1896.0	2020.5	1501.2	2052.5	2070.3	1252.2	544.3	460.7	489.1
85°	1495.8	889.3	499.8	355.7	707.9	1302.0	391.3	33.8	39.1	33.8
87.5°	387.7	147.6	62.2	92.5	113.9	101.3	90.7	5.3	1.8	3.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)