

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: P454235

Luminaire Tested: **GALN-SA5B-750-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454235
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-SA5B-750-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 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: 20464 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 204
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

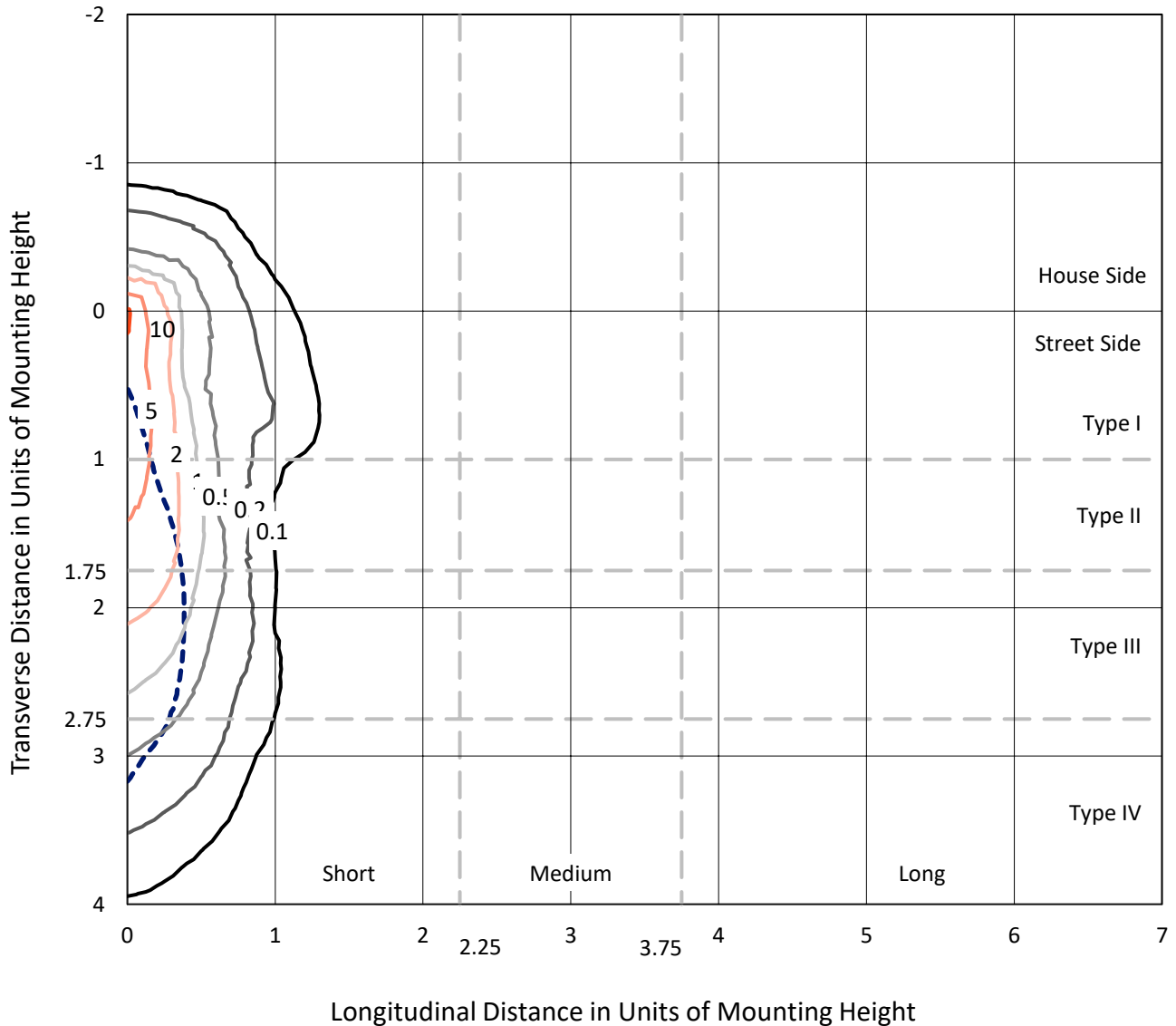




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Iso-Footcandle Lines of Horizontal Illumination

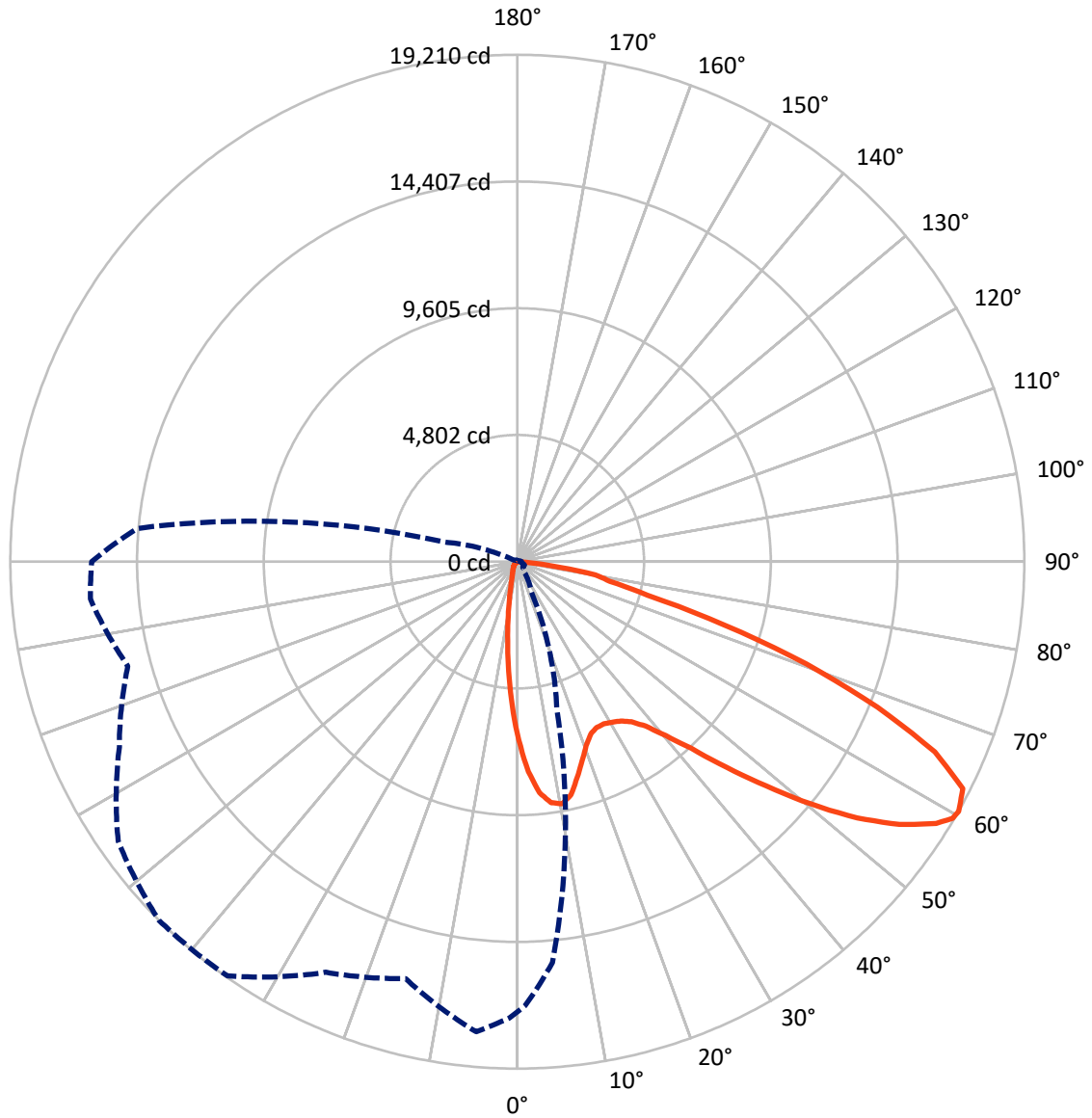
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 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	2524.0	0.0	2524.0
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	17940.0	0.0	17940.0
	% Fixture	87.7	0.0	87.7
Total	Lumens	20464.0	0.0	20464.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	503.1	2.5
10°-20°	999.1	4.9
20°-30°	1464.9	7.2
30°-40°	2178.6	10.6
40°-50°	3170.5	15.5
50°-60°	4572.1	22.3
60°-70°	5028.9	24.6
70°-80°	2252.5	11.0
80°-90°	294.3	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°	20464.0	100.0
0°-180°	20464.0	100.0

Coefficient of Utilization



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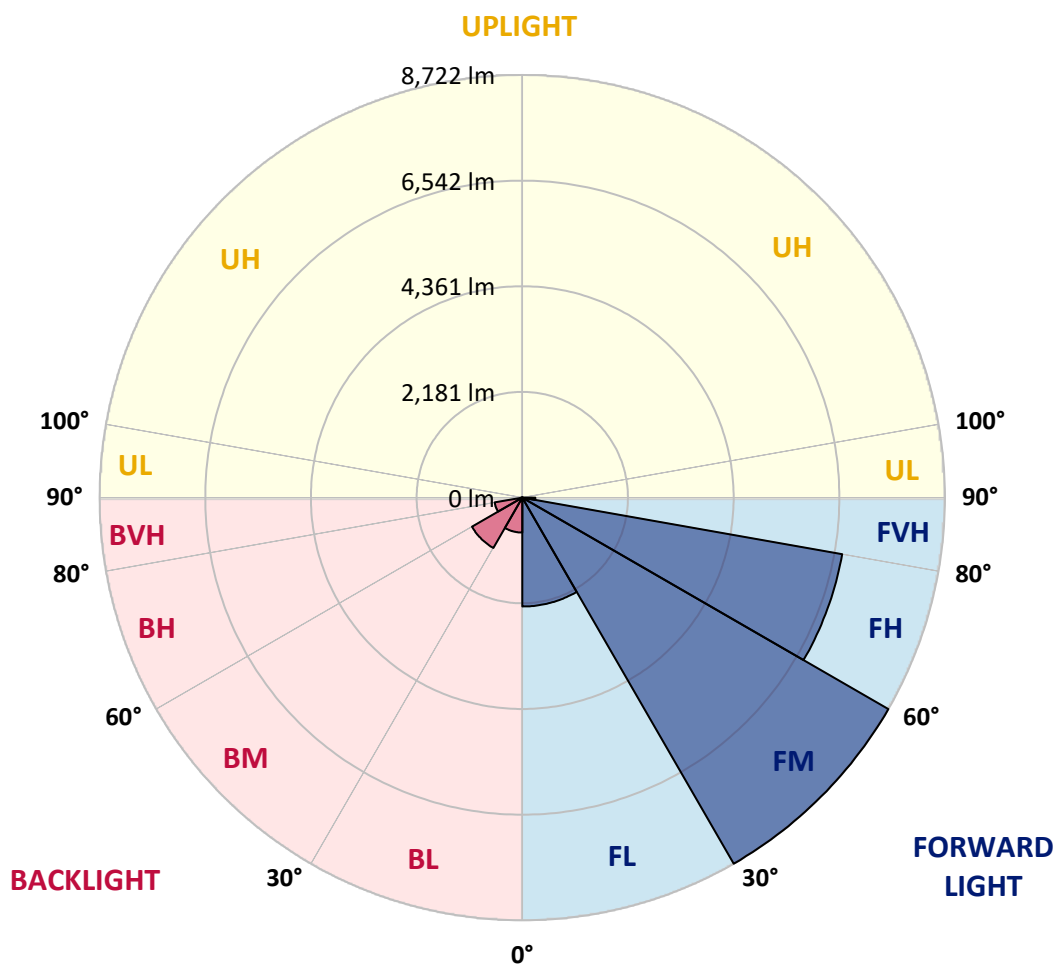
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2245.9	11.0			
FM	(30°-60°)	8722.4	42.6			
FH	(60°-80°)	6702.6	32.8			G3/7500
FVH	(80°-90°)	269.2	1.3			G3/500
BL	(0°-30°)	721.2	3.5	B2/1000		
BM	(30°-60°)	1198.8	5.9	B2/2500		
BH	(60°-80°)	578.8	2.8	B2/1000		G2/1000
BVH	(80°-90°)	25.2	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6763.6	6763.6	6763.6	6763.6	6763.6	6763.6	6763.6	6763.6	6763.6	6763.6	6763.6
2.5°	7435.7	7403.0	7328.3	7101.2	6903.6	6645.4	6384.1	6178.7	6052.7	5821.0	5715.2
5°	7203.9	7219.4	7003.2	6536.5	6017.0	5662.3	5275.0	4967.0	4627.8	4413.2	4187.6
7.5°	6598.8	6567.6	6332.7	5682.5	5051.0	4537.6	4047.6	3649.4	3398.9	3198.3	3030.3
10°	6080.7	6057.4	5757.2	4920.3	4242.1	3857.8	3526.5	3178.0	2908.9	2614.9	2380.0
12.5°	5755.6	5702.7	5357.4	4483.2	3930.9	3573.2	3212.3	2849.8	2478.0	2180.9	1896.2
15°	5646.7	5570.5	5186.3	4332.3	3731.8	3277.6	2824.9	2408.0	1980.2	1652.0	1437.4
17.5°	5844.3	5718.3	5309.2	4305.8	3493.8	2891.8	2334.9	1792.0	1347.1	1096.7	964.5
20°	6297.0	6152.3	5620.3	4279.4	3229.4	2459.4	1774.9	1266.2	931.8	794.9	721.8
22.5°	6969.0	6769.9	6080.7	4321.4	2985.2	2037.8	1281.8	894.5	740.5	654.9	603.6
25°	7776.3	7609.9	6664.1	4470.7	2792.3	1706.5	990.9	731.1	623.8	570.9	532.0
27.5°	8661.4	8395.4	7418.5	4649.6	2616.5	1449.8	869.6	653.3	555.3	507.1	486.9
30°	9291.5	9084.6	8050.1	4774.1	2397.1	1256.9	794.9	644.0	556.9	499.3	462.0
32.5°	9913.7	9649.2	8579.0	4831.6	2236.9	1123.1	687.6	561.6	488.5	458.9	421.6
35°	10579.5	10302.6	9106.3	4800.5	2117.1	1034.5	623.8	500.9	418.4	368.7	331.3
37.5°	11253.0	10960.6	9630.6	4688.5	2042.5	998.7	574.0	476.0	395.1	343.8	303.3
40°	12052.6	11662.2	10122.1	4596.7	1964.7	980.0	541.3	460.5	378.0	323.6	283.1
42.5°	12705.9	12334.2	10587.3	4548.5	1911.8	936.5	541.3	448.0	367.1	306.4	264.4
45°	13325.1	12939.3	11089.7	4587.4	1890.0	882.0	547.6	446.5	359.3	294.0	252.0
47.5°	13843.1	13508.6	11606.2	4733.6	1862.0	822.9	514.9	468.2	354.7	283.1	239.6
50°	14454.4	14130.9	12289.1	5029.2	1812.2	763.8	474.5	504.0	353.1	273.8	228.7
52.5°	15316.2	14966.2	13231.7	5365.2	1732.9	673.6	437.1	499.3	346.9	258.2	217.8
55°	16369.3	16086.2	14323.7	5768.1	1624.0	572.5	378.0	443.3	328.2	231.8	199.1
57.5°	17044.4	16803.3	15142.0	5942.3	1457.6	468.2	332.9	371.8	300.2	206.9	177.3
59°	17123.8	16906.0	15313.1	5884.7	1348.7	427.8	311.1	318.9	292.4	192.9	164.9
60°	17056.9	16831.3	15244.6	5772.7	1247.6	399.8	292.4	283.1	294.0	185.1	155.6
62.5°	16627.6	16241.8	14580.4	5205.0	1090.5	367.1	259.8	231.8	259.8	166.4	138.4
65°	15798.4	15219.8	13266.0	4405.4	1028.2	348.4	220.9	194.4	197.6	146.2	119.8
67.5°	14350.2	13620.6	11515.9	3579.4	1001.8	350.0	186.7	174.2	152.4	124.4	105.8
70°	12060.4	11332.4	9240.1	2944.7	989.3	350.0	158.7	149.3	127.6	104.2	91.8
72.5°	8546.3	7762.3	6233.2	2313.1	891.3	348.4	135.3	135.3	104.2	87.1	74.7
75°	4828.5	4834.7	3918.5	1636.5	740.5	287.8	108.9	107.3	76.2	66.9	56.0
77.5°	2814.0	2764.3	2641.4	703.1	343.8	130.7	76.2	65.3	52.9	48.2	40.4
80°	1446.7	1190.0	1158.9	255.1	122.9	82.4	52.9	37.3	34.2	31.1	28.0
82.5°	427.8	429.3	382.7	102.7	68.4	54.4	26.4	20.2	18.7	17.1	17.1
85°	29.6	18.7	21.8	31.1	42.0	21.8	1.6	4.7	4.7	6.2	7.8
87.5°	3.1	1.6	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°	6763.6	6763.6	6763.6	6763.6	6763.6	6763.6	6763.6	6763.6	6763.6	6763.6	6763.6
2.5°	5598.5	5667.0	5539.4	5542.5	5436.7	5471.0	5346.5	5387.0	5313.8	5369.8	5534.7
5°	4212.5	4228.1	4125.4	4092.7	4108.3	4172.1	4196.9	4083.4	4131.6	4036.7	4030.5
7.5°	2968.0	2986.7	2927.6	2919.8	3031.8	3005.4	3053.6	2936.9	2826.5	2874.7	2786.0
10°	2305.4	2227.6	2106.2	2072.0	2050.2	2064.2	2064.2	1958.5	1942.9	1900.9	1964.7
12.5°	1820.0	1725.1	1610.0	1454.5	1415.6	1412.5	1354.9	1261.6	1232.0	1196.2	1249.1
15°	1322.2	1283.4	1186.9	1099.8	1011.1	994.0	900.7	824.5	723.3	709.3	704.7
17.5°	930.2	872.7	871.1	821.3	770.0	735.8	648.7	561.6	522.7	518.0	518.0
20°	696.9	676.7	644.0	637.8	622.2	583.3	505.6	458.9	440.2	441.8	448.0
22.5°	586.5	572.5	542.9	528.9	522.7	488.5	430.9	399.8	390.4	390.4	392.0
25°	524.2	511.8	479.1	457.3	449.6	424.7	379.6	356.2	348.4	348.4	348.4
27.5°	477.6	462.0	427.8	409.1	395.1	367.1	339.1	315.8	308.0	308.0	309.6
30°	444.9	427.8	396.7	371.8	350.0	325.1	301.8	281.6	272.2	270.7	272.2
32.5°	401.3	385.8	354.7	339.1	314.2	284.7	266.0	247.3	238.0	239.6	238.0
35°	312.7	308.0	286.2	290.9	276.9	252.0	234.9	214.7	203.8	202.2	205.3
37.5°	284.7	266.0	241.1	242.7	238.0	228.7	200.7	178.9	171.1	171.1	172.7
40°	262.9	244.2	216.2	202.2	203.8	203.8	174.2	150.9	143.1	141.6	144.7
42.5°	244.2	225.6	194.4	171.1	164.9	172.7	147.8	124.4	116.7	113.6	116.7
45°	231.8	211.6	175.8	149.3	130.7	140.0	121.3	102.7	93.3	93.3	91.8
47.5°	219.3	200.7	161.8	129.1	108.9	104.2	99.6	82.4	73.1	71.6	73.1
50°	208.4	189.8	146.2	112.0	91.8	80.9	80.9	65.3	59.1	56.0	57.6
52.5°	197.6	177.3	132.2	99.6	79.3	65.3	57.6	52.9	48.2	46.7	48.2
55°	182.0	161.8	118.2	85.6	68.4	54.4	45.1	43.6	40.4	37.3	40.4
57.5°	163.3	144.7	104.2	73.1	54.4	42.0	37.3	35.8	32.7	31.1	31.1
59°	152.4	135.3	96.4	63.8	48.2	37.3	34.2	32.7	29.6	26.4	28.0
60°	146.2	132.2	91.8	59.1	43.6	34.2	31.1	29.6	26.4	24.9	26.4
62.5°	129.1	118.2	80.9	48.2	34.2	24.9	21.8	23.3	21.8	20.2	21.8
65°	113.6	104.2	68.4	37.3	26.4	17.1	15.6	20.2	18.7	17.1	18.7
67.5°	101.1	90.2	57.6	28.0	18.7	9.3	10.9	17.1	17.1	15.6	17.1
70°	87.1	77.8	46.7	20.2	9.3	4.7	7.8	12.4	15.6	14.0	15.6
72.5°	71.6	60.7	35.8	14.0	4.7	0.0	4.7	10.9	15.6	14.0	15.6
75°	56.0	45.1	26.4	7.8	0.0	0.0	1.6	9.3	15.6	14.0	15.6
77.5°	40.4	32.7	15.6	1.6	0.0	0.0	1.6	9.3	15.6	14.0	15.6
80°	26.4	23.3	6.2	0.0	0.0	0.0	1.6	9.3	15.6	15.6	17.1
82.5°	17.1	12.4	0.0	0.0	0.0	0.0	3.1	12.4	17.1	18.7	18.7
85°	7.8	0.0	0.0	0.0	0.0	0.0	6.2	15.6	20.2	20.2	20.2
87.5°	0.0	0.0	0.0	0.0	0.0	3.1	10.9	18.7	23.3	23.3	23.3
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°	6763.6	6763.6	6763.6	6763.6	6763.6	6763.6	6763.6	6763.6	6763.6	6763.6	6763.6
2.5°	5562.7	5660.7	5799.2	6012.3	6185.0	6457.2	6665.6	6950.3	7238.1	7325.2	7460.5
5°	4094.3	4220.3	4534.5	4820.7	5001.2	5576.7	5940.7	6514.8	7029.6	7277.0	7546.1
7.5°	2843.6	2992.9	3232.5	3632.3	4011.8	4480.1	5068.1	5724.5	6479.0	6832.1	7211.7
10°	1995.8	2182.5	2520.0	2848.3	3325.8	3770.7	4350.9	5075.8	5908.1	6325.0	6801.0
12.5°	1260.0	1426.5	1872.9	2241.6	2837.4	3353.8	3888.9	4545.4	5509.9	5937.6	6437.0
15°	720.2	860.2	1068.7	1541.6	2202.7	2885.6	3552.9	4315.2	5306.1	5833.4	6373.2
17.5°	536.7	574.0	667.3	934.9	1536.9	2334.9	3243.4	4245.2	5444.5	6063.6	6679.6
20°	451.1	476.0	519.6	625.3	980.0	1798.2	2941.6	4257.6	5892.5	6670.3	7255.2
22.5°	404.4	420.0	455.8	524.2	668.9	1309.8	2588.5	4330.7	6435.4	7415.4	8090.6
25°	354.7	374.9	406.0	465.1	556.9	908.5	2240.0	4494.1	7196.1	8361.2	8995.9
27.5°	315.8	334.4	365.6	420.0	488.5	693.8	1834.0	4634.1	7998.8	9313.2	9832.8
30°	276.9	295.6	326.7	370.2	432.5	561.6	1396.9	4716.5	8778.1	10027.2	10427.0
32.5°	244.2	259.8	289.3	328.2	379.6	476.0	1101.3	4630.9	9373.9	10675.9	10943.5
35°	211.6	230.2	255.1	290.9	336.0	406.0	916.2	4335.4	9885.7	11343.3	11439.7
37.5°	177.3	199.1	225.6	258.2	294.0	373.3	735.8	4008.7	10433.2	12175.5	12016.8
40°	149.3	169.6	194.4	230.2	262.9	342.2	566.2	3660.3	11024.4	12956.4	12646.8
42.5°	121.3	143.1	172.7	205.3	259.8	298.7	438.7	3299.4	11554.8	13636.2	13216.2
45°	96.4	115.1	146.2	188.2	258.2	256.7	339.1	2943.1	11954.6	14121.5	13640.8
47.5°	76.2	91.8	122.9	183.6	238.0	217.8	272.2	2722.3	12374.6	14558.6	13966.0
50°	60.7	76.2	105.8	191.3	208.4	186.7	228.7	2758.0	12780.6	14781.1	14099.7
52.5°	51.3	66.9	91.8	150.9	160.2	163.3	200.7	2922.9	13304.8	15019.1	14365.7
55°	45.1	59.1	77.8	105.8	124.4	146.2	183.6	3042.7	14006.4	15529.3	14952.2
57.5°	35.8	51.3	70.0	90.2	102.7	127.6	169.6	3052.0	14641.1	16184.2	15731.5
59°	32.7	46.7	65.3	85.6	91.8	115.1	160.2	2972.7	14664.4	16282.2	16089.3
60°	29.6	45.1	62.2	79.3	87.1	108.9	152.4	2880.9	14452.9	16126.7	16237.1
62.5°	24.9	38.9	54.4	63.8	74.7	90.2	132.2	2548.0	13427.7	15422.0	15963.3
65°	21.8	34.2	46.7	52.9	62.2	77.8	116.7	2039.4	12295.3	14466.9	15179.3
67.5°	20.2	31.1	40.4	45.1	54.4	71.6	104.2	1440.5	10828.4	13255.1	14001.7
70°	18.7	29.6	35.8	42.0	48.2	60.7	88.7	840.0	8341.0	11130.1	11918.8
72.5°	18.7	28.0	31.1	35.8	42.0	54.4	82.4	454.2	5702.7	8490.3	9509.2
75°	18.7	26.4	28.0	31.1	37.3	49.8	73.1	238.0	3686.7	5898.7	7280.1
77.5°	18.7	24.9	28.0	29.6	35.8	43.6	63.8	149.3	2456.3	4131.6	4920.3
80°	20.2	24.9	26.4	29.6	34.2	40.4	52.9	99.6	1443.6	2485.8	2994.5
82.5°	21.8	24.9	28.0	31.1	35.8	38.9	46.7	62.2	665.8	1644.2	1860.5
85°	23.3	26.4	29.6	32.7	37.3	38.9	43.6	45.1	108.9	742.0	1003.3
87.5°	24.9	28.0	31.1	34.2	40.4	40.4	40.4	40.4	37.3	79.3	202.2
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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CATALOG NUMBER: GALN-SA5B-750-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6763.6	6763.6	6763.6	6763.6	6763.6	6763.6	6763.6	6763.6	6763.6	6763.6
2.5°	7631.7	7807.4	7930.3	7961.4	7872.8	7832.3	7720.3	7546.1	7440.3	7435.7
5°	8042.3	8454.6	8740.8	8789.0	8617.9	8328.6	7984.8	7541.4	7281.7	7203.9
7.5°	7972.3	8694.1	9154.6	9221.5	8933.7	8381.4	7715.7	7001.6	6718.5	6598.8
10°	7684.5	8565.0	9223.0	9328.8	8944.6	8166.8	7320.5	6524.1	6172.5	6080.7
12.5°	7438.8	8328.6	8913.5	9059.7	8768.8	7992.5	7084.1	6217.6	5841.2	5755.6
15°	7331.4	8048.6	8406.3	8481.0	8432.8	7883.7	7059.2	6171.0	5740.1	5646.7
17.5°	7438.8	7810.5	7855.7	7931.9	8039.2	7872.8	7298.8	6424.5	5959.4	5844.3
20°	7720.3	7603.7	7417.0	7449.7	7695.4	7917.9	7725.0	6986.1	6419.9	6297.0
22.5°	8199.4	7552.3	7129.2	7101.2	7412.3	8068.8	8350.3	7746.8	7090.3	6969.0
25°	8787.4	7681.4	7023.4	6962.8	7301.9	8289.7	9030.1	8678.6	7961.4	7776.3
27.5°	9428.3	7949.0	7023.4	6964.3	7292.5	8485.7	9611.9	9503.0	8863.7	8661.4
30°	9779.9	8169.9	7124.5	7057.6	7407.7	8599.2	9923.0	10235.7	9541.9	9291.5
32.5°	10094.1	8476.3	7322.1	7196.1	7648.8	8767.2	10201.5	10857.9	10081.7	9913.7
35°	10383.5	8804.6	7594.3	7448.1	7966.1	8997.5	10509.5	11511.3	10833.0	10579.5
37.5°	10702.4	9185.7	8019.0	7894.5	8496.6	9445.5	10875.0	12369.9	11571.9	11253.0
40°	11049.3	9627.5	8717.4	8664.6	9339.7	9952.6	11337.0	13286.2	12415.1	12052.6
42.5°	11402.4	10136.1	9573.0	9660.1	10294.8	10663.5	11811.5	13990.9	13105.7	12705.9
45°	11722.8	10786.4	10685.3	11116.1	11408.6	11357.3	12163.0	14487.1	13707.7	13325.1
47.5°	12127.3	11733.7	12030.8	12695.1	12702.8	12111.7	12429.1	14893.1	14225.7	13843.1
50°	12579.9	12852.2	13768.4	14445.1	14263.1	12853.7	12740.2	15373.8	14760.9	14454.4
52.5°	13104.2	14104.4	15373.8	16125.1	15700.4	13662.6	13258.2	15893.3	15610.2	15316.2
55°	13714.0	14958.4	16974.4	17573.3	17145.6	14667.5	14045.3	16598.0	16570.0	16369.3
57.5°	14403.1	15860.7	17901.6	18712.0	18330.9	15846.7	15145.1	17262.2	17156.4	17044.4
59°	14947.5	16324.2	18310.7	19150.7	18920.5	16672.7	15884.0	17676.0	17291.8	17123.8
60°	15277.3	16638.4	18461.6	19209.8	19156.9	17164.2	16352.2	17878.2	17290.2	17056.9
62.5°	16255.8	17187.6	18404.0	18946.9	19153.8	18106.9	17725.8	18100.7	16969.8	16627.6
65°	16604.2	17005.6	17450.5	17383.6	17560.9	18058.7	18603.1	17856.5	16285.3	15798.4
67.5°	15926.0	15009.8	15166.9	14720.4	14633.3	16055.1	18246.9	16661.8	14946.0	14350.2
70°	13424.6	11498.8	11419.5	11624.8	11061.7	12998.4	16384.9	14361.1	12735.5	12060.4
72.5°	10567.0	8126.3	7457.4	8213.4	8196.3	9916.8	13611.3	10190.6	8603.9	8546.3
75°	8309.9	5657.6	4965.4	5088.3	5324.7	7179.0	10840.8	6471.2	5298.3	4828.5
77.5°	5578.3	4008.7	3739.6	3588.7	3843.8	4609.2	6858.5	3509.4	2971.2	2814.0
80°	3215.4	2912.0	3307.2	3002.3	3139.2	2904.3	3411.4	1610.0	1336.2	1446.7
82.5°	2092.2	1658.2	1767.1	1312.9	1795.1	1810.7	1095.1	476.0	402.9	427.8
85°	1308.2	777.8	437.1	311.1	619.1	1138.7	342.2	29.6	34.2	29.6
87.5°	339.1	129.1	54.4	80.9	99.6	88.7	79.3	4.7	1.6	3.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)