

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: P454409

Luminaire Tested: **GALN-SA5C-730-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454409
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-SA5C-730-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1050mA 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: 23027 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

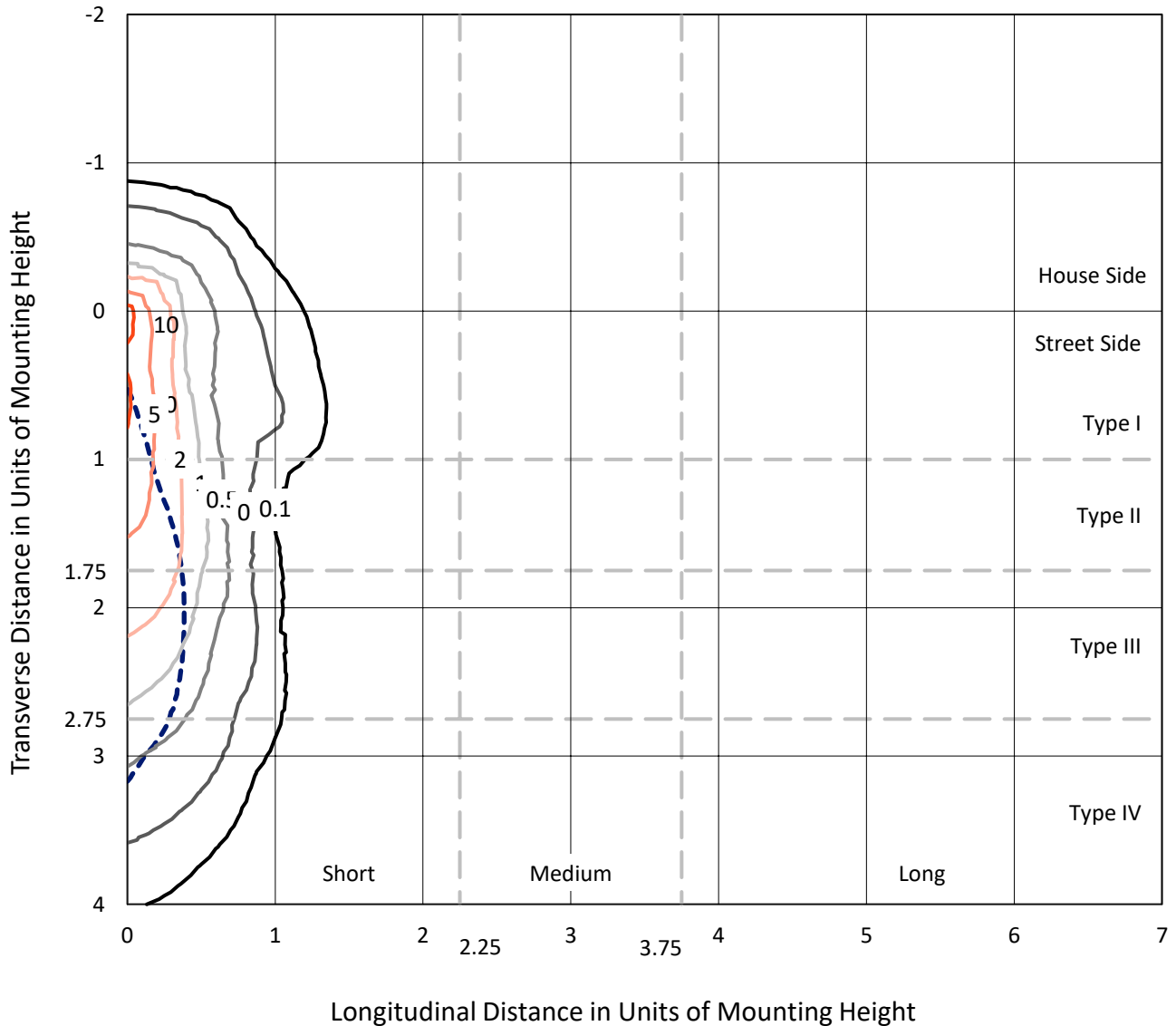
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

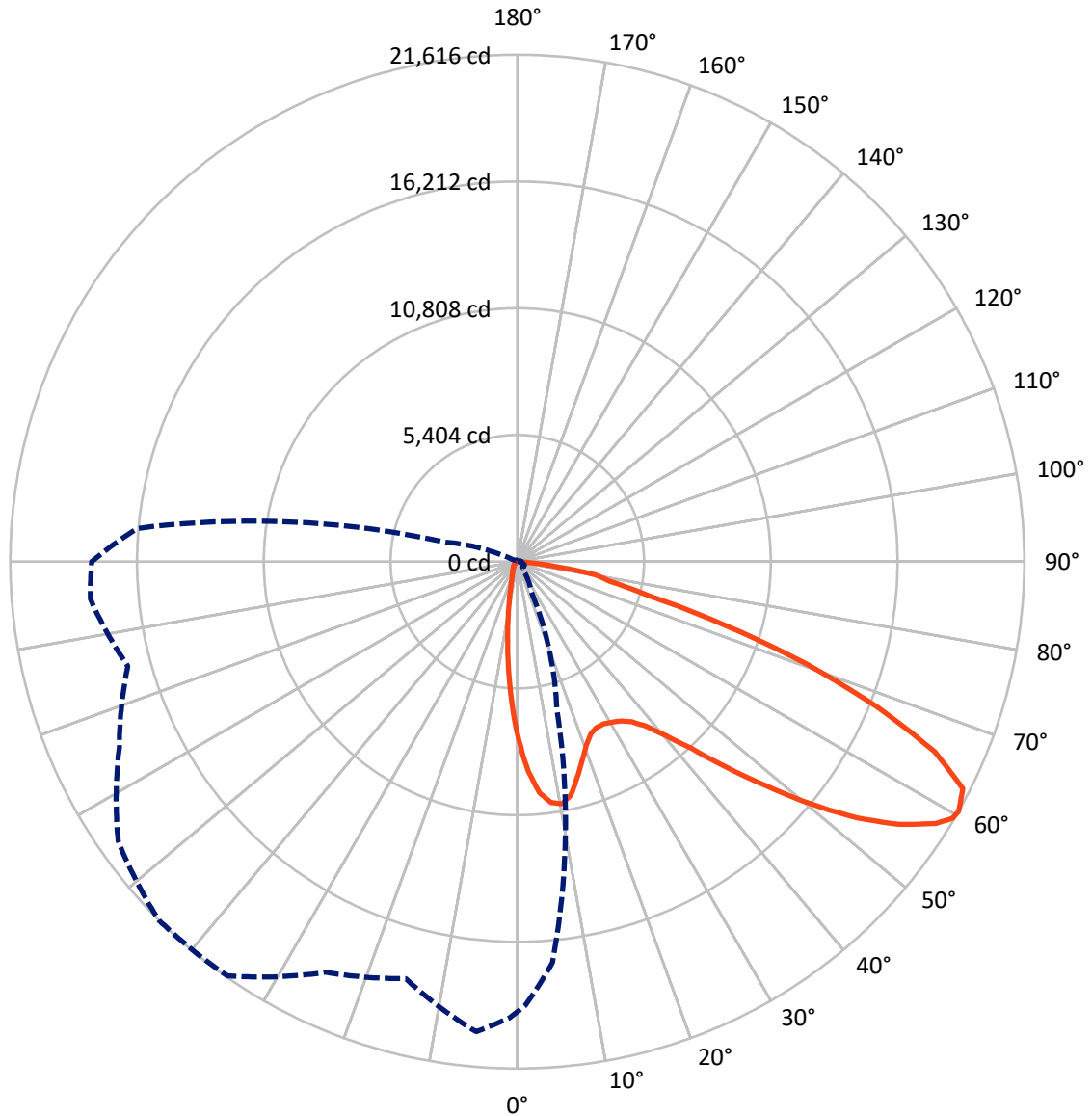
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 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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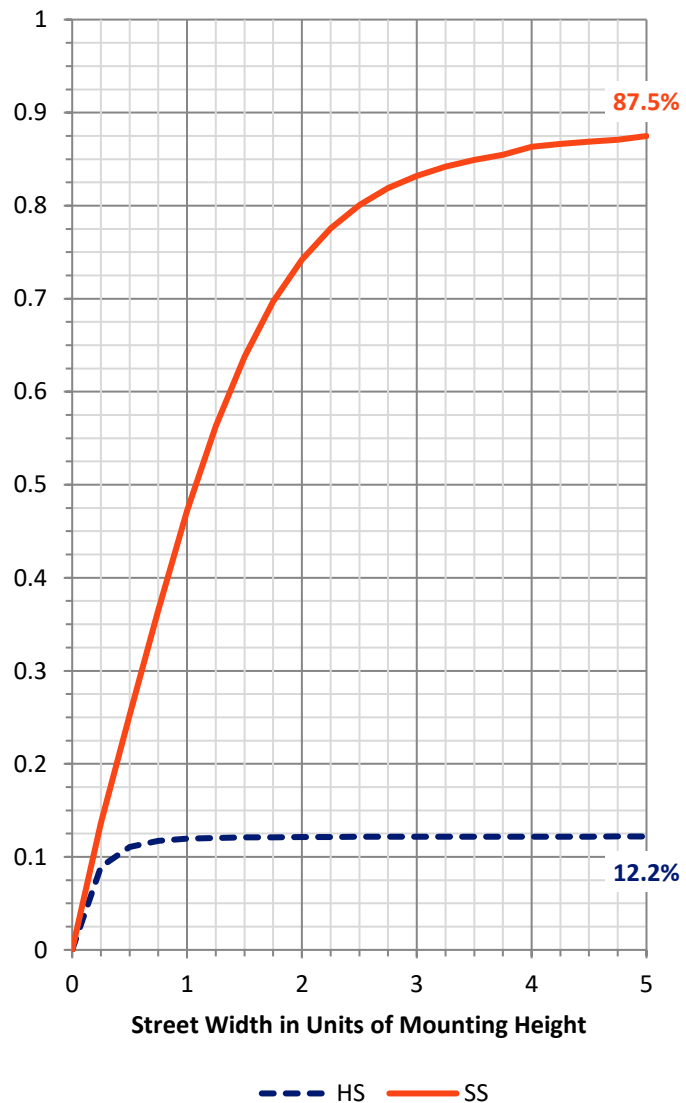
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2840.2	0.0	2840.2
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	20186.8	0.0	20186.8
	% Fixture	87.7	0.0	87.7
Total	Lumens	23027.0	0.0	23027.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	566.1	2.5
10°-20°	1124.2	4.9
20°-30°	1648.4	7.2
30°-40°	2451.4	10.6
40°-50°	3567.6	15.5
50°-60°	5144.8	22.3
60°-70°	5658.7	24.6
70°-80°	2534.6	11.0
80°-90°	331.2	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°	23027.0	100.0
0°-180°	23027.0	100.0



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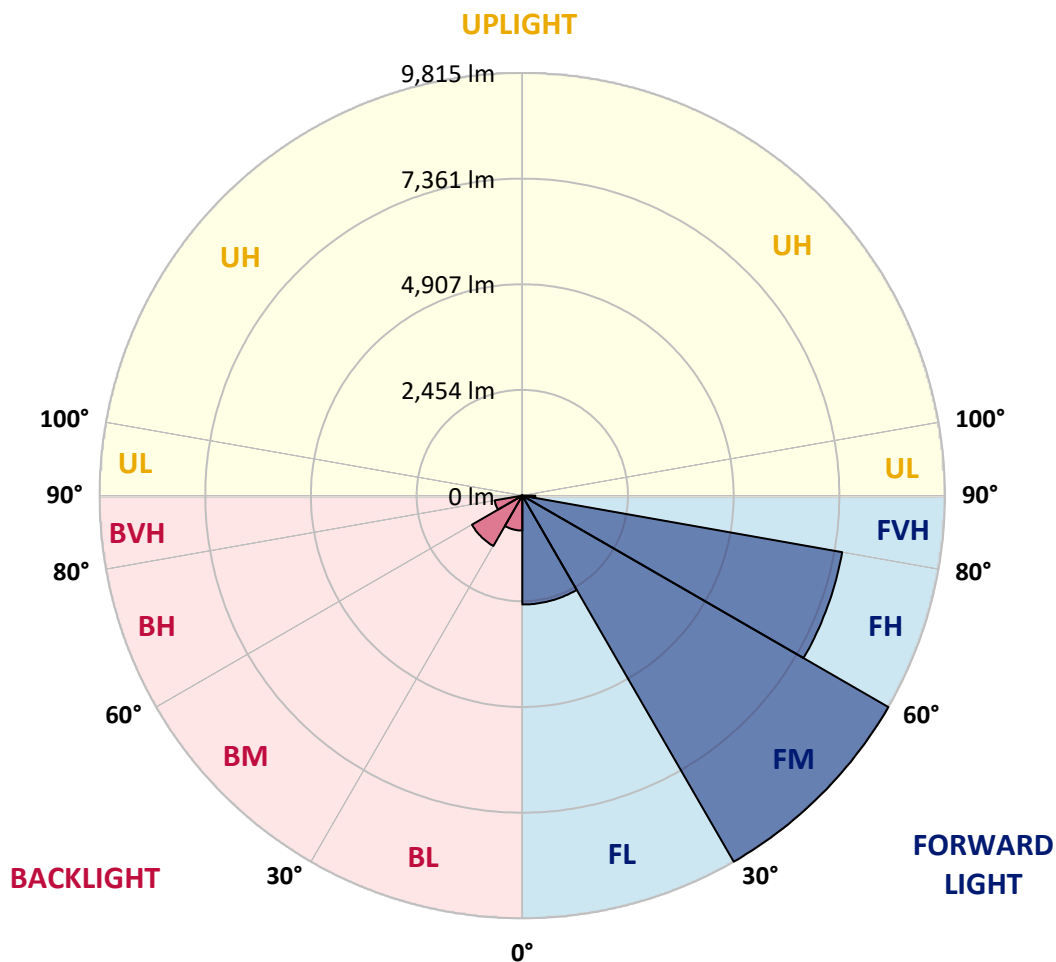
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2527.1	11.0			
FM	(30°-60°)	9814.8	42.6			
FH	(60°-80°)	7542.0	32.8			G4/12000
FVH	(80°-90°)	302.9	1.3			G3/500
BL	(0°-30°)	811.5	3.5	B2/1000		
BM	(30°-60°)	1349.0	5.9	B2/2500		
BH	(60°-80°)	651.3	2.8	B2/1000		G2/1000
BVH	(80°-90°)	28.3	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°	7610.8	7610.8	7610.8	7610.8	7610.8	7610.8	7610.8	7610.8	7610.8	7610.8	7610.8
2.5°	8366.9	8330.2	8246.1	7990.6	7768.3	7477.7	7183.7	6952.6	6810.8	6550.0	6431.0
5°	8106.1	8123.6	7880.3	7355.2	6770.6	6371.5	5935.6	5589.0	5207.4	4965.9	4712.1
7.5°	7425.2	7390.2	7125.9	6394.2	5683.6	5105.9	4554.5	4106.4	3824.6	3598.8	3409.8
10°	6842.3	6816.1	6478.2	5536.5	4773.3	4341.0	3968.2	3576.1	3273.3	2942.4	2678.1
12.5°	6476.5	6417.0	6028.4	5044.7	4423.3	4020.7	3614.6	3206.7	2788.4	2454.1	2133.7
15°	6354.0	6268.2	5835.8	4874.9	4199.2	3688.1	3178.7	2709.6	2228.3	1858.9	1617.4
17.5°	6576.3	6434.5	5974.1	4845.1	3931.4	3254.0	2627.4	2016.5	1515.8	1234.0	1085.2
20°	7085.6	6922.8	6324.2	4815.4	3633.8	2767.4	1997.2	1424.8	1048.5	894.5	812.2
22.5°	7841.8	7617.8	6842.3	4862.6	3359.0	2293.0	1442.3	1006.5	833.2	736.9	679.2
25°	8750.3	8563.0	7498.7	5030.7	3142.0	1920.2	1115.0	822.7	701.9	642.4	598.6
27.5°	9746.2	9446.9	8347.7	5232.0	2944.2	1631.4	978.5	735.2	624.9	570.6	547.9
30°	10455.2	10222.4	9058.3	5372.0	2697.4	1414.3	894.5	724.7	626.6	561.9	519.9
32.5°	11155.3	10857.8	9653.5	5436.8	2517.1	1263.8	773.7	631.9	549.6	516.4	474.4
35°	11904.5	11592.9	10246.9	5401.7	2382.3	1164.0	701.9	563.6	470.9	414.8	372.8
37.5°	12662.4	12333.3	10836.7	5275.7	2298.3	1123.8	645.9	535.6	444.6	386.8	341.3
40°	13562.1	13122.8	11389.9	5172.4	2210.8	1102.8	609.1	518.1	425.3	364.1	318.6
42.5°	14297.3	13878.9	11913.2	5118.2	2151.2	1053.7	609.1	504.1	413.1	344.8	297.6
45°	14994.0	14559.9	12478.6	5161.9	2126.7	992.5	616.1	502.4	404.3	330.8	283.6
47.5°	15576.8	15200.5	13059.8	5326.5	2095.2	926.0	579.4	526.9	399.1	318.6	269.6
50°	16264.7	15900.7	13828.2	5659.1	2039.2	859.4	533.9	567.1	397.3	308.1	257.3
52.5°	17234.5	16840.6	14888.9	6037.1	1949.9	757.9	491.9	561.9	390.3	290.6	245.1
55°	18419.5	18100.9	16117.7	6490.5	1827.4	644.1	425.3	498.9	369.3	260.8	224.1
57.5°	19179.2	18907.9	17038.4	6686.5	1640.1	526.9	374.6	418.3	337.8	232.8	199.5
59°	19268.4	19023.4	17231.0	6621.8	1517.6	481.4	350.1	358.8	329.1	217.0	185.5
60°	19193.2	18939.4	17154.0	6495.7	1403.8	449.9	329.1	318.6	330.8	208.3	175.0
62.5°	18710.1	18276.0	16406.5	5856.8	1227.0	413.1	292.3	260.8	292.3	187.3	155.8
65°	17777.1	17125.9	14927.4	4957.1	1157.0	392.1	248.6	218.8	222.3	164.5	134.8
67.5°	16147.5	15326.5	12958.2	4027.7	1127.3	393.8	210.0	196.0	171.5	140.0	119.0
70°	13570.9	12751.7	10397.4	3313.5	1113.3	393.8	178.5	168.0	143.5	117.3	103.3
72.5°	9616.7	8734.5	7013.9	2602.8	1003.0	392.1	152.3	152.3	117.3	98.0	84.0
75°	5433.3	5440.3	4409.3	1841.4	833.2	323.8	122.5	120.8	85.8	75.3	63.0
77.5°	3166.5	3110.5	2972.2	791.2	386.8	147.0	85.8	73.5	59.5	54.3	45.5
80°	1627.9	1339.1	1304.1	287.1	138.3	92.8	59.5	42.0	38.5	35.0	31.5
82.5°	481.4	483.1	430.6	115.5	77.0	61.3	29.8	22.8	21.0	19.3	19.3
85°	33.3	21.0	24.5	35.0	47.3	24.5	1.8	5.3	5.3	7.0	8.8
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°	7610.8	7610.8	7610.8	7610.8	7610.8	7610.8	7610.8	7610.8	7610.8	7610.8	7610.8
2.5°	6299.7	6376.7	6233.2	6236.7	6117.7	6156.2	6016.1	6061.6	5979.4	6042.4	6227.9
5°	4740.1	4757.6	4642.1	4605.3	4622.8	4694.6	4722.6	4594.8	4649.1	4542.3	4535.3
7.5°	3339.8	3360.8	3294.3	3285.5	3411.5	3381.8	3436.0	3304.8	3180.5	3234.7	3135.0
10°	2594.1	2506.6	2370.0	2331.5	2307.0	2322.8	2322.8	2203.8	2186.3	2139.0	2210.8
12.5°	2048.0	1941.2	1811.7	1636.6	1592.9	1589.4	1524.6	1419.6	1386.3	1346.1	1405.6
15°	1487.8	1444.1	1335.6	1237.5	1137.8	1118.5	1013.5	927.7	813.9	798.2	792.9
17.5°	1046.7	982.0	980.2	924.2	866.4	827.9	729.9	631.9	588.1	582.9	582.9
20°	784.2	761.4	724.7	717.7	700.2	656.4	568.9	516.4	495.4	497.1	504.1
22.5°	659.9	644.1	610.9	595.1	588.1	549.6	484.9	449.9	439.4	439.4	441.1
25°	589.9	575.9	539.1	514.6	505.9	477.9	427.1	400.8	392.1	392.1	392.1
27.5°	537.4	519.9	481.4	460.4	444.6	413.1	381.6	355.3	346.6	346.6	348.3
30°	500.6	481.4	446.4	418.3	393.8	365.8	339.6	316.8	306.3	304.6	306.3
32.5°	451.6	434.1	399.1	381.6	353.6	320.3	299.3	278.3	267.8	269.6	267.8
35°	351.8	346.6	322.1	327.3	311.6	283.6	264.3	241.6	229.3	227.6	231.1
37.5°	320.3	299.3	271.3	273.1	267.8	257.3	225.8	201.3	192.5	192.5	194.3
40°	295.8	274.8	243.3	227.6	229.3	229.3	196.0	169.8	161.0	159.3	162.8
42.5°	274.8	253.8	218.8	192.5	185.5	194.3	166.3	140.0	131.3	127.8	131.3
45°	260.8	238.1	197.8	168.0	147.0	157.5	136.5	115.5	105.0	105.0	103.3
47.5°	246.8	225.8	182.0	145.3	122.5	117.3	112.0	92.8	82.3	80.5	82.3
50°	234.6	213.5	164.5	126.0	103.3	91.0	91.0	73.5	66.5	63.0	64.8
52.5°	222.3	199.5	148.8	112.0	89.3	73.5	64.8	59.5	54.3	52.5	54.3
55°	204.8	182.0	133.0	96.3	77.0	61.3	50.8	49.0	45.5	42.0	45.5
57.5°	183.8	162.8	117.3	82.3	61.3	47.3	42.0	40.3	36.8	35.0	35.0
59°	171.5	152.3	108.5	71.8	54.3	42.0	38.5	36.8	33.3	29.8	31.5
60°	164.5	148.8	103.3	66.5	49.0	38.5	35.0	33.3	29.8	28.0	29.8
62.5°	145.3	133.0	91.0	54.3	38.5	28.0	24.5	26.3	24.5	22.8	24.5
65°	127.8	117.3	77.0	42.0	29.8	19.3	17.5	22.8	21.0	19.3	21.0
67.5°	113.8	101.5	64.8	31.5	21.0	10.5	12.3	19.3	19.3	17.5	19.3
70°	98.0	87.5	52.5	22.8	10.5	5.3	8.8	14.0	17.5	15.8	17.5
72.5°	80.5	68.3	40.3	15.8	5.3	0.0	5.3	12.3	17.5	15.8	17.5
75°	63.0	50.8	29.8	8.8	0.0	0.0	1.8	10.5	17.5	15.8	17.5
77.5°	45.5	36.8	17.5	1.8	0.0	0.0	1.8	10.5	17.5	15.8	17.5
80°	29.8	26.3	7.0	0.0	0.0	0.0	1.8	10.5	17.5	17.5	19.3
82.5°	19.3	14.0	0.0	0.0	0.0	0.0	3.5	14.0	19.3	21.0	21.0
85°	8.8	0.0	0.0	0.0	0.0	0.0	7.0	17.5	22.8	22.8	22.8
87.5°	0.0	0.0	0.0	0.0	0.0	3.5	12.3	21.0	26.3	26.3	26.3
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°	7610.8	7610.8	7610.8	7610.8	7610.8	7610.8	7610.8	7610.8	7610.8	7610.8	7610.8
2.5°	6259.4	6369.7	6525.5	6765.3	6959.6	7265.9	7500.5	7820.8	8144.6	8242.6	8394.9
5°	4607.1	4748.8	5102.4	5424.5	5627.5	6275.2	6684.8	7330.7	7910.1	8188.4	8491.2
7.5°	3199.7	3367.8	3637.3	4087.2	4514.3	5041.2	5702.8	6441.5	7290.4	7687.8	8114.9
10°	2245.8	2455.8	2835.7	3205.0	3742.4	4243.0	4895.9	5711.6	6648.0	7117.1	7652.8
12.5°	1417.8	1605.1	2107.5	2522.3	3192.7	3773.9	4376.0	5114.7	6199.9	6681.3	7243.2
15°	810.4	968.0	1202.5	1734.6	2478.6	3247.0	3997.9	4855.6	5970.6	6564.0	7171.4
17.5°	603.9	645.9	750.9	1052.0	1729.4	2627.4	3649.6	4776.9	6126.4	6823.1	7516.2
20°	507.6	535.6	584.6	703.7	1102.8	2023.5	3310.0	4790.9	6630.5	7505.7	8163.9
22.5°	455.1	472.6	512.9	589.9	752.7	1473.8	2912.7	4873.1	7241.4	8344.2	9103.8
25°	399.1	421.8	456.9	523.4	626.6	1022.2	2520.6	5056.9	8097.4	9408.4	10122.6
27.5°	355.3	376.3	411.3	472.6	549.6	780.7	2063.7	5214.5	9000.6	10479.7	11064.3
30°	311.6	332.6	367.6	416.6	486.6	631.9	1571.9	5307.2	9877.5	11283.1	11733.0
32.5°	274.8	292.3	325.6	369.3	427.1	535.6	1239.3	5210.9	10547.9	12013.0	12314.1
35°	238.1	259.1	287.1	327.3	378.1	456.9	1031.0	4878.4	11123.8	12763.9	12872.5
37.5°	199.5	224.1	253.8	290.6	330.8	420.1	827.9	4510.8	11740.0	13700.4	13521.9
40°	168.0	190.8	218.8	259.1	295.8	385.1	637.1	4118.7	12405.1	14579.1	14230.8
42.5°	136.5	161.0	194.3	231.1	292.3	336.1	493.6	3712.6	13002.0	15344.0	14871.4
45°	108.5	129.5	164.5	211.8	290.6	288.8	381.6	3311.8	13451.8	15890.2	15349.3
47.5°	85.8	103.3	138.3	206.5	267.8	245.1	306.3	3063.2	13924.5	16382.0	15715.1
50°	68.3	85.8	119.0	215.3	234.6	210.0	257.3	3103.5	14381.3	16632.3	15865.7
52.5°	57.8	75.3	103.3	169.8	180.3	183.8	225.8	3289.0	14971.2	16900.1	16165.0
55°	50.8	66.5	87.5	119.0	140.0	164.5	206.5	3423.8	15760.6	17474.3	16824.9
57.5°	40.3	57.8	78.8	101.5	115.5	143.5	190.8	3434.3	16474.8	18211.2	17701.8
59°	36.8	52.5	73.5	96.3	103.3	129.5	180.3	3345.0	16501.0	18321.5	18104.4
60°	33.3	50.8	70.0	89.3	98.0	122.5	171.5	3241.7	16263.0	18146.4	18270.7
62.5°	28.0	43.8	61.3	71.8	84.0	101.5	148.8	2867.2	15109.5	17353.5	17962.6
65°	24.5	38.5	52.5	59.5	70.0	87.5	131.3	2294.8	13835.2	16278.7	17080.4
67.5°	22.8	35.0	45.5	50.8	61.3	80.5	117.3	1620.9	12184.6	14915.2	15755.4
70°	21.0	33.3	40.3	47.3	54.3	68.3	99.8	945.2	9385.7	12524.1	13411.6
72.5°	21.0	31.5	35.0	40.3	47.3	61.3	92.8	511.1	6417.0	9553.7	10700.2
75°	21.0	29.8	31.5	35.0	42.0	56.0	82.3	267.8	4148.5	6637.5	8191.9
77.5°	21.0	28.0	31.5	33.3	40.3	49.0	71.8	168.0	2763.9	4649.1	5536.5
80°	22.8	28.0	29.8	33.3	38.5	45.5	59.5	112.0	1624.4	2797.1	3369.5
82.5°	24.5	28.0	31.5	35.0	40.3	43.8	52.5	70.0	749.2	1850.2	2093.5
85°	26.3	29.8	33.3	36.8	42.0	43.8	49.0	50.8	122.5	834.9	1129.0
87.5°	28.0	31.5	35.0	38.5	45.5	45.5	45.5	45.5	42.0	89.3	227.6
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: P454409

CATALOG NUMBER: GALN-SA5C-730-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7610.8	7610.8	7610.8	7610.8	7610.8	7610.8	7610.8	7610.8	7610.8	7610.8
2.5°	8587.5	8785.3	8923.6	8958.6	8858.8	8813.3	8687.3	8491.2	8372.2	8366.9
5°	9049.6	9513.4	9835.5	9889.8	9697.2	9371.7	8984.8	8486.0	8193.6	8106.1
7.5°	8970.8	9783.0	10301.1	10376.4	10052.6	9431.2	8682.0	7878.6	7560.0	7425.2
10°	8647.0	9637.7	10378.1	10497.2	10064.8	9189.6	8237.4	7341.2	6945.6	6842.3
12.5°	8370.4	9371.7	10029.8	10194.3	9867.0	8993.6	7971.3	6996.4	6572.8	6476.5
15°	8249.6	9056.6	9459.2	9543.2	9488.9	8871.0	7943.3	6943.8	6459.0	6354.0
17.5°	8370.4	8788.8	8839.5	8925.3	9046.1	8858.8	8212.9	7229.2	6705.8	6576.3
20°	8687.3	8556.0	8345.9	8382.7	8659.2	8909.6	8692.5	7861.1	7223.9	7085.6
22.5°	9226.4	8498.2	8022.1	7990.6	8340.7	9079.3	9396.2	8717.0	7978.3	7841.8
25°	9888.0	8643.5	7903.1	7834.8	8216.4	9327.9	10161.1	9765.5	8958.6	8750.3
27.5°	10609.2	8944.6	7903.1	7836.6	8205.9	9548.4	10815.7	10693.2	9973.8	9746.2
30°	11004.8	9193.1	8016.8	7941.6	8335.4	9676.2	11165.8	11517.7	10737.0	10455.2
32.5°	11358.4	9537.9	8239.1	8097.4	8606.7	9865.3	11479.1	12217.8	11344.4	11155.3
35°	11683.9	9907.3	8545.5	8380.9	8963.8	10124.3	11825.7	12953.0	12189.8	11904.5
37.5°	12042.8	10336.1	9023.3	8883.3	9560.7	10628.4	12237.1	13919.2	13021.2	12662.4
40°	12433.1	10833.2	9809.3	9749.7	10509.4	11199.1	12756.9	14950.2	13970.0	13562.1
42.5°	12830.5	11405.6	10772.0	10870.0	11584.2	11999.0	13290.8	15743.1	14747.1	14297.3
45°	13191.0	12137.3	12023.5	12508.4	12837.5	12779.7	13686.4	16301.5	15424.6	14994.0
47.5°	13646.1	13203.3	13537.6	14285.0	14293.8	13628.6	13985.7	16758.4	16007.4	15576.8
50°	14155.5	14461.8	15492.8	16254.2	16049.4	14463.6	14335.8	17299.2	16609.6	16264.7
52.5°	14745.4	15870.9	17299.2	18144.7	17666.8	15373.8	14918.7	17883.9	17565.3	17234.5
55°	15431.6	16831.9	19100.4	19774.3	19292.9	16504.6	15804.4	18676.8	18645.3	18419.5
57.5°	16207.0	17847.1	20143.6	21055.6	20626.7	17831.4	17041.9	19424.2	19305.2	19179.2
59°	16819.6	18368.7	20604.0	21549.2	21290.2	18760.8	17873.4	19889.8	19457.5	19268.4
60°	17190.7	18722.3	20773.8	21615.7	21556.2	19313.9	18400.2	20117.4	19455.7	19193.2
62.5°	18291.7	19340.2	20709.0	21319.9	21552.7	20374.7	19945.8	20367.7	19095.1	18710.1
65°	18683.8	19135.4	19636.0	19560.8	19760.3	20320.4	20933.1	20092.9	18325.0	17777.1
67.5°	17920.6	16889.6	17066.4	16564.1	16466.0	18065.9	20532.2	18748.6	16817.9	16147.5
70°	15106.0	12939.0	12849.7	13080.8	12447.1	14626.4	18437.0	16159.7	14330.6	13570.9
72.5°	11890.5	9144.1	8391.4	9242.1	9222.9	11158.8	15316.0	11466.9	9681.5	9616.7
75°	9350.7	6366.2	5587.3	5725.6	5991.6	8078.1	12198.6	7281.7	5961.9	5433.3
77.5°	6276.9	4510.8	4208.0	4038.2	4325.2	5186.4	7717.5	3948.9	3343.3	3166.5
80°	3618.1	3276.8	3721.4	3378.3	3532.3	3268.0	3838.6	1811.7	1503.6	1627.9
82.5°	2354.3	1865.9	1988.5	1477.3	2020.0	2037.5	1232.3	535.6	453.4	481.4
85°	1472.1	875.2	491.9	350.1	696.7	1281.3	385.1	33.3	38.5	33.3
87.5°	381.6	145.3	61.3	91.0	112.0	99.8	89.3	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)