

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: P454641

Luminaire Tested: **GALN-SA5D-730-U-SLR-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454641  
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-730-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 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: 25338 lumens  
Efficiency: N/A  
Efficacy: 82.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

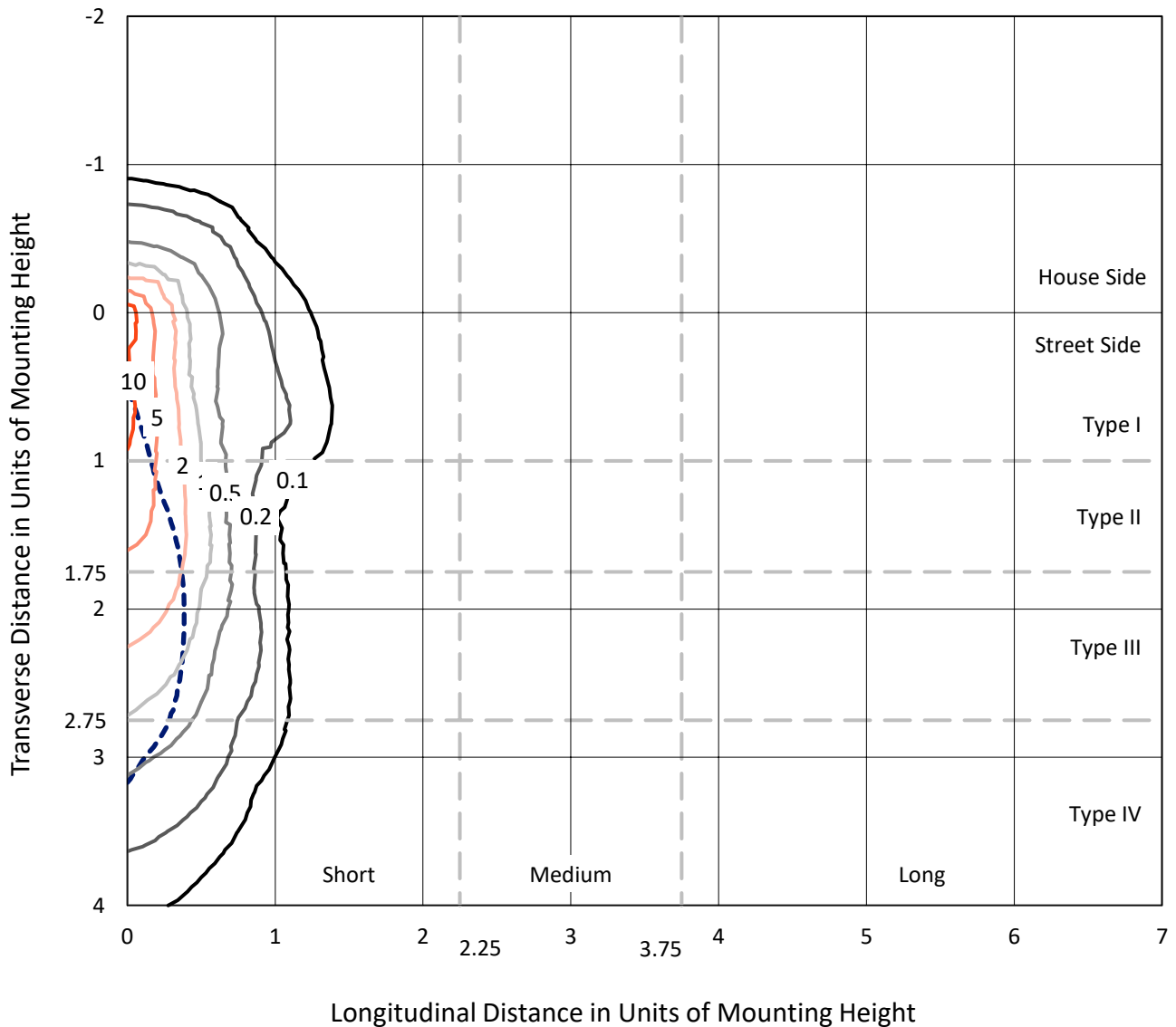
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

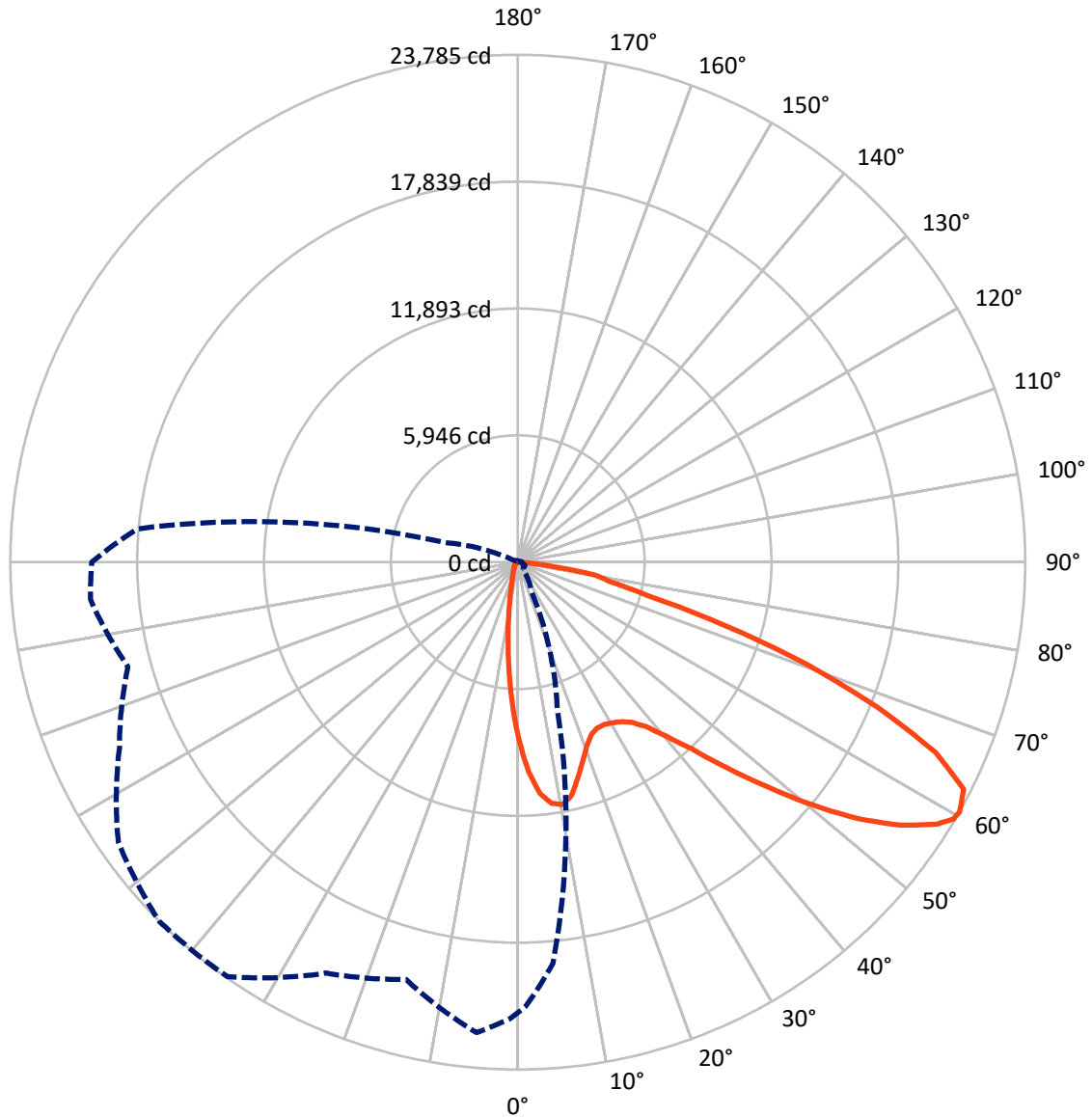
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 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
<b>House Side</b>	Lumens	3125.2	0.0	3125.2
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	22212.8	0.0	22212.8
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	25338.0	0.0	25338.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	622.9	2.5
10°-20°	1237.0	4.9
20°-30°	1813.8	7.2
30°-40°	2697.5	10.6
40°-50°	3925.7	15.5
50°-60°	5661.1	22.3
60°-70°	6226.6	24.6
70°-80°	2789.0	11.0
80°-90°	364.4	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°	25338.0	100.0
0°-180°	25338.0	100.0

**Coefficient of Utilization**



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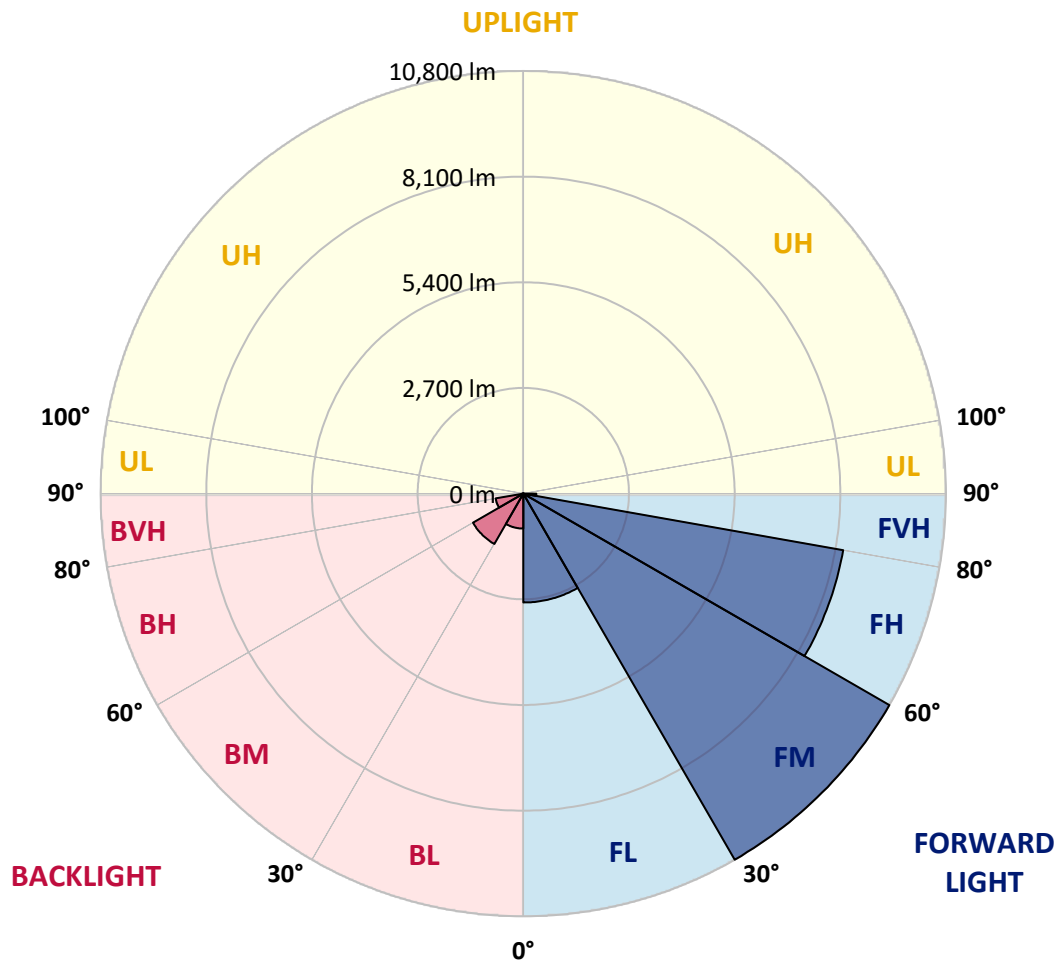
CATALOG NUMBER: GALN-SA5D-730-U-SLR-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2780.8	11.0			
FM	(30°-60°)	10799.8	42.6			
FH	(60°-80°)	8298.9	32.8			G4/12000
FVH	(80°-90°)	333.3	1.3			G3/500
BL	(0°-30°)	893.0	3.5	B2/1000		
BM	(30°-60°)	1484.4	5.9	B2/2500		
BH	(60°-80°)	716.7	2.8	B2/1000		G2/1000
BVH	(80°-90°)	31.2	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°	8374.6	8374.6	8374.6	8374.6	8374.6	8374.6	8374.6	8374.6	8374.6	8374.6	8374.6
2.5°	9206.6	9166.2	9073.7	8792.5	8547.9	8228.2	7904.6	7650.4	7494.4	7207.4	7076.4
5°	8919.7	8938.9	8671.2	8093.4	7450.1	7010.9	6531.3	6150.0	5730.1	5464.3	5185.0
7.5°	8170.4	8131.9	7841.0	7035.9	6254.0	5618.4	5011.6	4518.6	4208.5	3960.0	3752.0
10°	7529.0	7500.1	7128.4	6092.2	5252.4	4776.7	4366.4	3935.0	3601.8	3237.7	2946.9
12.5°	7126.5	7061.0	6633.4	5550.9	4867.2	4424.2	3977.3	3528.6	3068.2	2700.4	2347.9
15°	6991.6	6897.3	6421.5	5364.1	4620.7	4058.2	3497.8	2981.6	2451.9	2045.5	1779.7
17.5°	7236.3	7080.2	6573.7	5331.4	4326.0	3580.6	2891.0	2218.8	1668.0	1357.9	1194.2
20°	7796.7	7617.6	6958.9	5298.6	3998.5	3045.1	2197.7	1567.8	1153.7	984.2	893.7
22.5°	8628.8	8382.3	7529.0	5350.6	3696.1	2523.2	1587.1	1107.5	916.8	810.9	747.3
25°	9628.4	9422.4	8251.3	5535.5	3457.3	2112.9	1226.9	905.3	772.4	706.9	658.7
27.5°	10724.4	10395.0	9185.4	5757.0	3239.7	1795.1	1076.7	809.0	687.6	627.9	602.9
30°	11504.4	11248.3	9967.4	5911.1	2968.1	1556.3	984.2	797.4	689.5	618.3	572.0
32.5°	12274.9	11947.4	10622.3	5982.4	2769.7	1390.6	851.3	695.3	604.8	568.2	522.0
35°	13099.2	12756.4	11275.2	5943.9	2621.4	1280.8	772.4	620.2	518.1	456.5	410.3
37.5°	13933.2	13571.1	11924.3	5805.2	2528.9	1236.5	710.7	589.4	489.2	425.7	375.6
40°	14923.2	14439.8	12533.0	5691.5	2432.6	1213.4	670.3	570.1	468.0	400.6	350.5
42.5°	15732.2	15271.8	13108.9	5631.8	2367.1	1159.5	670.3	554.7	454.6	379.4	327.4
45°	16498.8	16021.1	13731.0	5680.0	2340.2	1092.1	678.0	552.8	444.9	364.0	312.0
47.5°	17140.1	16726.0	14370.4	5861.0	2305.5	1018.9	637.5	579.7	439.1	350.5	296.6
50°	17897.1	17496.5	15216.0	6227.0	2243.9	945.7	587.5	624.0	437.2	339.0	283.1
52.5°	18964.1	18530.8	16383.2	6643.0	2145.6	834.0	541.2	618.3	429.5	319.7	269.7
55°	20268.1	19917.5	17735.3	7141.9	2010.8	708.8	468.0	548.9	406.4	287.0	246.5
57.5°	21104.0	20805.5	18748.4	7357.6	1804.7	579.7	412.2	460.3	371.7	256.2	219.6
59°	21202.2	20932.6	18960.3	7286.3	1669.9	529.7	385.2	394.8	362.1	238.8	204.2
60°	21119.4	20840.1	18875.5	7147.7	1544.7	495.0	362.1	350.5	364.0	229.2	192.6
62.5°	20587.8	20110.1	18053.1	6444.6	1350.2	454.6	321.7	287.0	321.7	206.1	171.4
65°	19561.2	18844.7	16425.6	5454.6	1273.1	431.4	273.5	240.8	244.6	181.1	148.3
67.5°	17768.0	16864.7	14258.7	4431.9	1240.4	433.4	231.1	215.7	188.8	154.1	131.0
70°	14932.9	14031.5	11440.9	3646.1	1225.0	433.4	196.5	184.9	157.9	129.0	113.6
72.5°	10581.9	9611.1	7717.8	2864.1	1103.6	431.4	167.6	167.6	129.0	107.9	92.5
75°	5978.5	5986.2	4851.8	2026.2	916.8	356.3	134.8	132.9	94.4	82.8	69.3
77.5°	3484.3	3422.6	3270.5	870.6	425.7	161.8	94.4	80.9	65.5	59.7	50.1
80°	1791.2	1473.4	1434.9	315.9	152.2	102.1	65.5	46.2	42.4	38.5	34.7
82.5°	529.7	531.6	473.8	127.1	84.7	67.4	32.7	25.0	23.1	21.2	21.2
85°	36.6	23.1	27.0	38.5	52.0	27.0	1.9	5.8	5.8	7.7	9.6
87.5°	3.9	1.9	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°	8374.6	8374.6	8374.6	8374.6	8374.6	8374.6	8374.6	8374.6	8374.6	8374.6	8374.6
2.5°	6931.9	7016.7	6858.8	6862.6	6731.6	6774.0	6619.9	6670.0	6579.5	6648.8	6853.0
5°	5215.8	5235.1	5107.9	5067.5	5086.8	5165.7	5196.5	5055.9	5115.7	4998.2	4990.5
7.5°	3674.9	3698.1	3624.9	3615.2	3753.9	3721.2	3780.9	3636.4	3499.7	3559.4	3449.6
10°	2854.4	2758.1	2607.9	2565.5	2538.6	2555.9	2555.9	2424.9	2405.7	2353.7	2432.6
12.5°	2253.5	2136.0	1993.5	1800.9	1752.7	1748.9	1677.6	1562.0	1525.5	1481.2	1546.6
15°	1637.2	1589.0	1469.6	1361.7	1251.9	1230.8	1115.2	1020.8	895.6	878.3	872.5
17.5°	1151.8	1080.5	1078.6	1017.0	953.4	911.0	803.2	695.3	647.2	641.4	641.4
20°	862.9	837.8	797.4	789.7	770.4	722.3	626.0	568.2	545.1	547.0	554.7
22.5°	726.1	708.8	672.2	654.9	647.2	604.8	533.5	495.0	483.4	483.4	485.4
25°	649.1	633.7	593.2	566.3	556.6	525.8	470.0	441.1	431.4	431.4	431.4
27.5°	591.3	572.0	529.7	506.6	489.2	454.6	419.9	391.0	381.4	381.4	383.3
30°	550.9	529.7	491.1	460.3	433.4	402.5	373.7	348.6	337.1	335.1	337.1
32.5°	496.9	477.7	439.1	419.9	389.1	352.5	329.4	306.2	294.7	296.6	294.7
35°	387.1	381.4	354.4	360.2	342.8	312.0	290.8	265.8	252.3	250.4	254.2
37.5°	352.5	329.4	298.5	300.5	294.7	283.1	248.5	221.5	211.9	211.9	213.8
40°	325.5	302.4	267.7	250.4	252.3	252.3	215.7	186.8	177.2	175.3	179.1
42.5°	302.4	279.3	240.8	211.9	204.2	213.8	183.0	154.1	144.5	140.6	144.5
45°	287.0	261.9	217.6	184.9	161.8	173.3	150.2	127.1	115.6	115.6	113.6
47.5°	271.6	248.5	200.3	159.9	134.8	129.0	123.3	102.1	90.5	88.6	90.5
50°	258.1	235.0	181.1	138.7	113.6	100.2	100.2	80.9	73.2	69.3	71.3
52.5°	244.6	219.6	163.7	123.3	98.2	80.9	71.3	65.5	59.7	57.8	59.7
55°	225.4	200.3	146.4	105.9	84.7	67.4	55.9	53.9	50.1	46.2	50.1
57.5°	202.2	179.1	129.0	90.5	67.4	52.0	46.2	44.3	40.4	38.5	38.5
59°	188.8	167.6	119.4	79.0	59.7	46.2	42.4	40.4	36.6	32.7	34.7
60°	181.1	163.7	113.6	73.2	53.9	42.4	38.5	36.6	32.7	30.8	32.7
62.5°	159.9	146.4	100.2	59.7	42.4	30.8	27.0	28.9	27.0	25.0	27.0
65°	140.6	129.0	84.7	46.2	32.7	21.2	19.3	25.0	23.1	21.2	23.1
67.5°	125.2	111.7	71.3	34.7	23.1	11.6	13.5	21.2	21.2	19.3	21.2
70°	107.9	96.3	57.8	25.0	11.6	5.8	9.6	15.4	19.3	17.3	19.3
72.5°	88.6	75.1	44.3	17.3	5.8	0.0	5.8	13.5	19.3	17.3	19.3
75°	69.3	55.9	32.7	9.6	0.0	0.0	1.9	11.6	19.3	17.3	19.3
77.5°	50.1	40.4	19.3	1.9	0.0	0.0	1.9	11.6	19.3	17.3	19.3
80°	32.7	28.9	7.7	0.0	0.0	0.0	1.9	11.6	19.3	19.3	21.2
82.5°	21.2	15.4	0.0	0.0	0.0	0.0	3.9	15.4	21.2	23.1	23.1
85°	9.6	0.0	0.0	0.0	0.0	0.0	7.7	19.3	25.0	25.0	25.0
87.5°	0.0	0.0	0.0	0.0	0.0	3.9	13.5	23.1	28.9	28.9	28.9
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°	8374.6	8374.6	8374.6	8374.6	8374.6	8374.6	8374.6	8374.6	8374.6	8374.6	8374.6
2.5°	6887.6	7009.0	7180.4	7444.3	7658.1	7995.1	8253.2	8605.7	8962.0	9069.9	9237.5
5°	5069.4	5225.4	5614.5	5968.9	6192.3	6905.0	7355.7	8066.4	8703.9	9010.2	9343.4
7.5°	3520.9	3705.8	4002.4	4497.4	4967.3	5547.1	6275.2	7088.0	8022.1	8459.3	8929.3
10°	2471.2	2702.3	3120.2	3526.6	4117.9	4668.8	5387.2	6284.8	7315.2	7831.4	8420.8
12.5°	1560.1	1766.2	2319.0	2775.5	3513.2	4152.6	4815.2	5628.0	6822.2	7351.8	7970.1
15°	891.8	1065.1	1323.2	1908.7	2727.3	3572.9	4399.2	5342.9	6569.8	7222.8	7891.1
17.5°	664.5	710.7	826.3	1157.6	1903.0	2891.0	4015.9	5256.3	6741.3	7507.8	8270.6
20°	558.6	589.4	643.3	774.3	1213.4	2226.5	3642.2	5271.7	7296.0	8259.0	8983.2
22.5°	500.8	520.0	564.3	649.1	828.2	1621.8	3205.0	5362.2	7968.2	9181.6	10017.5
25°	439.1	464.2	502.7	575.9	689.5	1124.8	2773.5	5564.4	8910.0	10352.6	11138.5
27.5°	391.0	414.1	452.6	520.0	604.8	859.0	2270.8	5737.8	9903.9	11531.4	12174.7
30°	342.8	366.0	404.5	458.4	535.4	695.3	1729.6	5839.9	10868.8	12415.5	12910.5
32.5°	302.4	321.7	358.2	406.4	470.0	589.4	1363.7	5733.9	11606.5	13218.6	13549.9
35°	261.9	285.1	315.9	360.2	416.0	502.7	1134.5	5368.0	12240.2	14044.9	14164.4
37.5°	219.6	246.5	279.3	319.7	364.0	462.3	911.0	4963.5	12918.2	15075.4	14878.9
40°	184.9	209.9	240.8	285.1	325.5	423.7	701.1	4532.1	13650.1	16042.3	15659.0
42.5°	150.2	177.2	213.8	254.2	321.7	369.8	543.2	4085.2	14306.9	16884.0	16363.9
45°	119.4	142.5	181.1	233.1	319.7	317.8	419.9	3644.1	14801.9	17484.9	16889.7
47.5°	94.4	113.6	152.2	227.3	294.7	269.7	337.1	3370.6	15321.9	18026.1	17292.3
50°	75.1	94.4	131.0	236.9	258.1	231.1	283.1	3414.9	15824.6	18301.6	17457.9
52.5°	63.6	82.8	113.6	186.8	198.4	202.2	248.5	3619.1	16473.7	18596.2	17787.3
55°	55.9	73.2	96.3	131.0	154.1	181.1	227.3	3767.4	17342.4	19228.0	18513.4
57.5°	44.3	63.6	86.7	111.7	127.1	157.9	209.9	3779.0	18128.2	20038.9	19478.4
59°	40.4	57.8	80.9	105.9	113.6	142.5	198.4	3680.7	18157.1	20160.2	19921.4
60°	36.6	55.9	77.0	98.2	107.9	134.8	188.8	3567.1	17895.2	19967.6	20104.4
62.5°	30.8	48.2	67.4	79.0	92.5	111.7	163.7	3154.9	16625.9	19095.1	19765.4
65°	27.0	42.4	57.8	65.5	77.0	96.3	144.5	2525.1	15223.7	17912.5	18794.6
67.5°	25.0	38.5	50.1	55.9	67.4	88.6	129.0	1783.5	13407.4	16412.1	17336.6
70°	23.1	36.6	44.3	52.0	59.7	75.1	109.8	1040.1	10327.6	13781.1	14757.6
72.5°	23.1	34.7	38.5	44.3	52.0	67.4	102.1	562.4	7061.0	10512.5	11774.1
75°	23.1	32.7	34.7	38.5	46.2	61.6	90.5	294.7	4564.8	7303.7	9014.0
77.5°	23.1	30.8	34.7	36.6	44.3	53.9	79.0	184.9	3041.3	5115.7	6092.2
80°	25.0	30.8	32.7	36.6	42.4	50.1	65.5	123.3	1787.4	3077.9	3707.7
82.5°	27.0	30.8	34.7	38.5	44.3	48.2	57.8	77.0	824.4	2035.9	2303.6
85°	28.9	32.7	36.6	40.4	46.2	48.2	53.9	55.9	134.8	918.7	1242.3
87.5°	30.8	34.7	38.5	42.4	50.1	50.1	50.1	50.1	46.2	98.2	250.4
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: P454641

CATALOG NUMBER: GALN-SA5D-730-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8374.6	8374.6	8374.6	8374.6	8374.6	8374.6	8374.6	8374.6	8374.6	8374.6
2.5°	9449.3	9667.0	9819.1	9857.6	9747.9	9697.8	9559.1	9343.4	9212.4	9206.6
5°	9957.8	10468.2	10822.6	10882.3	10670.5	10312.2	9886.5	9337.6	9016.0	8919.7
7.5°	9871.1	10764.8	11334.9	11417.8	11061.4	10377.7	9553.3	8669.3	8318.7	8170.4
10°	9514.8	10605.0	11419.7	11550.7	11074.9	10111.9	9064.1	8078.0	7642.7	7529.0
12.5°	9210.5	10312.2	11036.4	11217.5	10857.3	9896.2	8771.3	7698.5	7232.4	7126.5
15°	9077.6	9965.5	10408.5	10501.0	10441.2	9761.3	8740.5	7640.7	7107.2	6991.6
17.5°	9210.5	9670.8	9726.7	9821.1	9954.0	9747.9	9037.1	7954.7	7378.8	7236.3
20°	9559.1	9414.7	9183.5	9224.0	9528.3	9803.7	9564.9	8650.0	7948.9	7796.7
22.5°	10152.3	9351.1	8827.2	8792.5	9177.7	9990.5	10339.2	9591.9	8779.0	8628.8
25°	10880.4	9511.0	8696.2	8621.1	9041.0	10264.1	11180.9	10745.6	9857.6	9628.4
27.5°	11673.9	9842.2	8696.2	8623.0	9029.4	10506.7	11901.2	11766.4	10974.8	10724.4
30°	12109.2	10115.7	8821.4	8738.6	9172.0	10647.3	12286.4	12673.6	11814.5	11504.4
32.5°	12498.3	10495.2	9066.0	8910.0	9470.5	10855.4	12631.2	13444.0	12482.9	12274.9
35°	12856.5	10901.6	9403.1	9222.0	9863.4	11140.4	13012.6	14252.9	13413.2	13099.2
37.5°	13251.4	11373.5	9928.9	9774.8	10520.2	11695.1	13465.2	15316.1	14328.1	13933.2
40°	13680.9	11920.5	10793.7	10728.2	11564.2	12323.0	14037.2	16450.6	15372.0	14923.2
42.5°	14118.1	12550.3	11853.1	11960.9	12746.8	13203.2	14624.7	17323.1	16227.2	15732.2
45°	14514.9	13355.4	13230.2	13763.7	14125.8	14062.3	15060.0	17937.5	16972.6	16498.8
47.5°	15015.7	14528.4	14896.3	15718.7	15728.3	14996.4	15389.3	18440.2	17613.9	17140.1
50°	15576.2	15913.2	17047.7	17885.5	17660.2	15915.2	15774.5	19035.4	18276.5	17897.1
52.5°	16225.3	17463.7	19035.4	19965.7	19439.9	16916.7	16415.9	19678.7	19328.2	18964.1
55°	16980.3	18521.1	21017.3	21758.9	21229.2	18161.0	17390.5	20551.2	20516.5	20268.1
57.5°	17833.5	19638.3	22165.3	23168.7	22696.9	19620.9	18752.3	21373.6	21242.7	21104.0
59°	18507.6	20212.2	22671.8	23711.9	23426.8	20643.7	19667.1	21886.0	21410.2	21202.2
60°	18916.0	20601.3	22858.7	23785.1	23719.6	21252.3	20246.9	22136.4	21408.3	21119.4
62.5°	20127.5	21281.2	22787.4	23459.6	23715.8	22419.5	21947.6	22411.8	21011.5	20587.8
65°	20558.9	21055.8	21606.7	21523.9	21743.5	22359.8	23033.9	22109.4	20164.1	19561.2
67.5°	19719.1	18584.7	18779.2	18226.4	18118.6	19879.0	22592.9	20630.2	18505.7	17768.0
70°	16622.0	14237.5	14139.3	14393.6	13696.3	16094.3	20287.3	17781.5	15768.8	14932.9
72.5°	13083.8	10061.8	9233.6	10169.7	10148.5	12278.7	16853.2	12617.7	10653.1	10581.9
75°	10289.1	7005.1	6148.0	6300.2	6593.0	8888.8	13422.8	8012.5	6560.2	5978.5
77.5°	6906.9	4963.5	4630.3	4443.5	4759.3	5707.0	8492.1	4345.2	3678.8	3484.3
80°	3981.2	3605.6	4094.8	3717.3	3886.8	3596.0	4223.9	1993.5	1654.5	1791.2
82.5°	2590.6	2053.2	2188.0	1625.6	2222.7	2242.0	1356.0	589.4	498.9	529.7
85°	1619.8	963.0	541.2	385.2	766.6	1409.9	423.7	36.6	42.4	36.6
87.5°	419.9	159.9	67.4	100.2	123.3	109.8	98.2	5.8	1.9	3.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)