

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: P530057

Luminaire Tested: **GALN-SA5B-730-U-SLR-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530057  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5B-730-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14347 lumens  
Efficiency: N/A  
Efficacy: 70.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G1

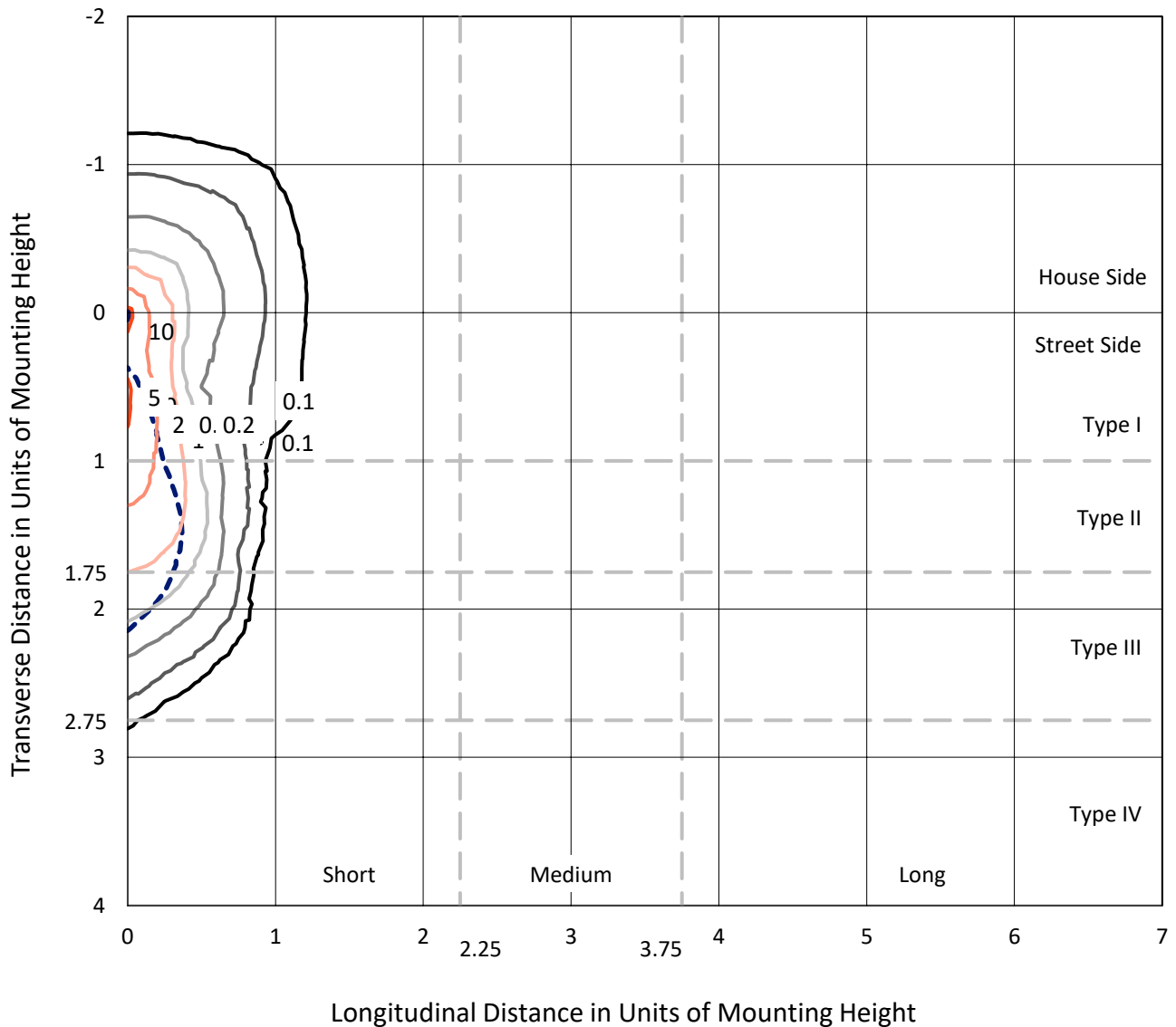
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

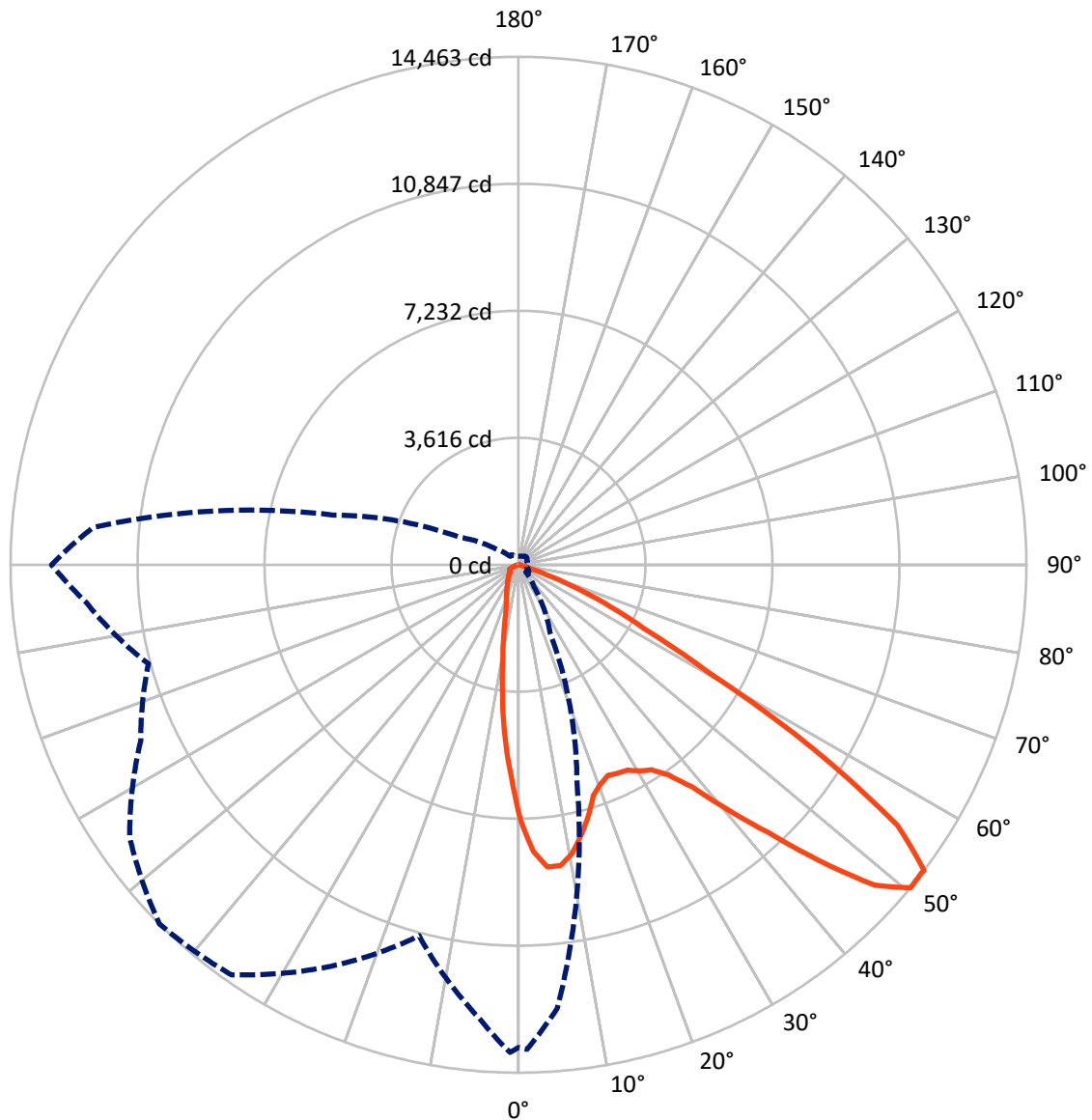
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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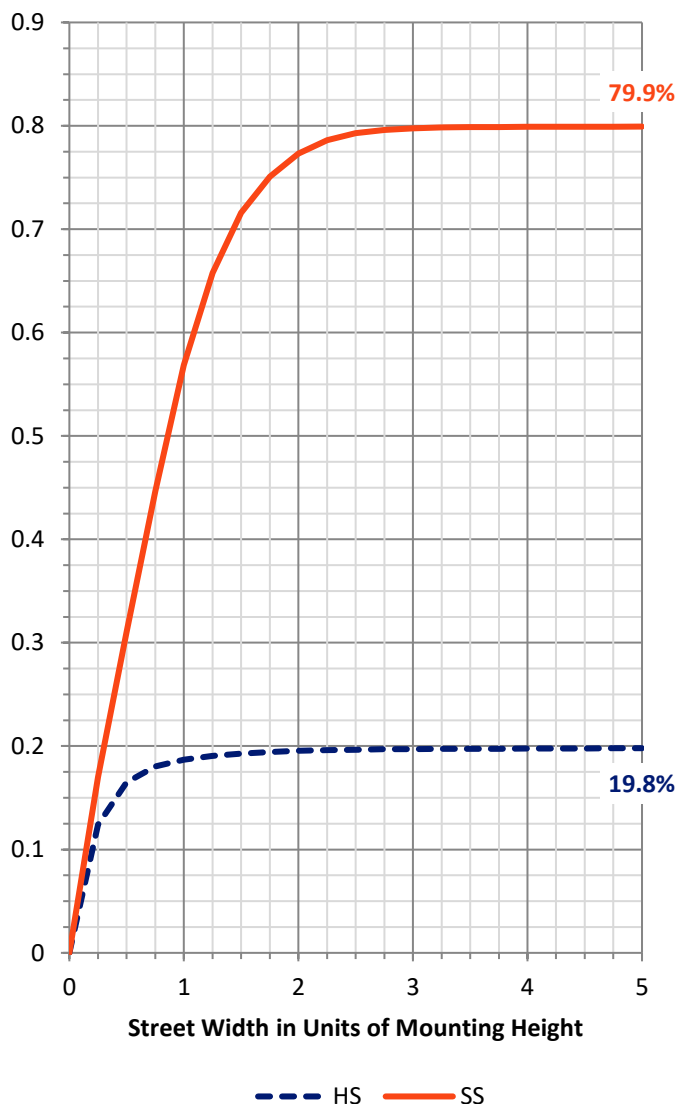
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2873.7	0.0	2873.7
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	11473.3	0.0	11473.3
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	14347.0	0.0	14347.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	530.3	3.7
10°-20°	1054.0	7.3
20°-30°	1583.4	11.0
30°-40°	2376.7	16.6
40°-50°	3340.2	23.3
50°-60°	3603.0	25.1
60°-70°	1672.9	11.7
70°-80°	157.4	1.1
80°-90°	29.0	0.2
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°	14347.0	100.0
0°-180°	14347.0	100.0

**Coefficient of Utilization**



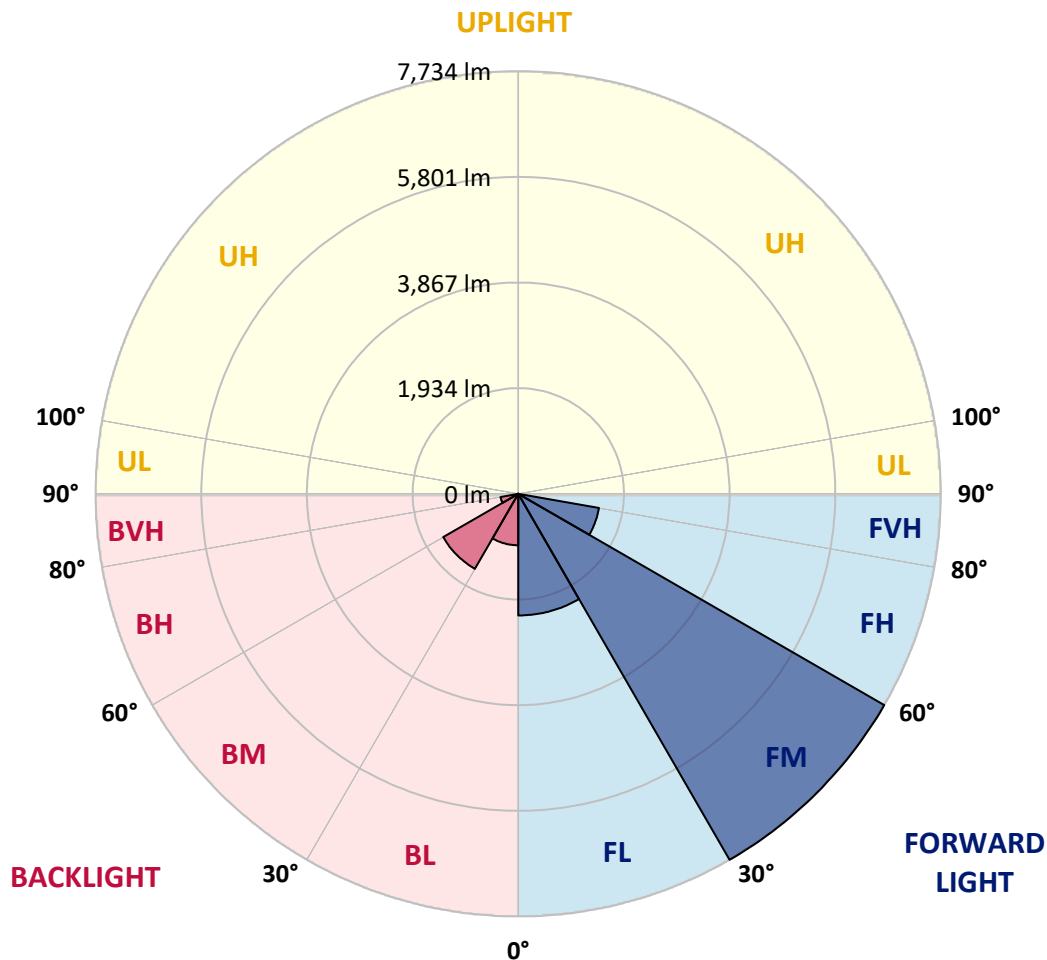
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2225.8	15.5			
FM (30°-60°)	7734.1	53.9			
FH (60°-80°)	1500.3	10.5			G1/1800
FVH (80°-90°)	13.1	0.1			G1/100
BL (0°-30°)	941.9	6.6	B2/1000		
BM (30°-60°)	1585.9	11.1	B2/2500		
BH (60°-80°)	330.0	2.3	B1/500		G1/500
BVH (80°-90°)	15.9	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-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7275.7	7275.7	7275.7	7275.7	7275.7	7275.7	7275.7	7275.7	7275.7	7275.7	7275.7
2.5°	7563.2	7446.5	7298.5	7176.1	6993.9	6626.7	6527.1	6407.5	6307.9	6174.1	5986.3
5°	6877.2	6840.2	6771.9	6310.8	5977.7	5533.7	5169.3	5015.6	4813.5	4648.4	4528.8
7.5°	6353.5	6205.4	5989.1	5525.1	4992.8	4517.4	4113.2	3877.0	3609.4	3518.3	3356.1
10°	5792.7	5826.9	5508.0	4856.2	4212.9	3828.6	3578.1	3350.4	3108.4	2949.0	2718.4
12.5°	5613.4	5502.3	5257.5	4452.0	3902.6	3543.9	3239.4	2957.5	2701.4	2445.2	2223.1
15°	5730.1	5559.3	5217.7	4366.6	3663.5	3216.6	2835.1	2453.7	2217.4	1890.1	1659.5
17.5°	6148.5	6011.9	5553.6	4457.7	3541.1	2903.5	2337.0	1944.2	1582.7	1286.6	1169.9
20°	6845.9	6652.3	6077.3	4574.4	3358.9	2524.9	1895.8	1411.9	1070.3	945.0	879.6
22.5°	7529.1	7423.8	6697.9	4799.3	3196.7	2189.0	1423.3	950.7	799.9	777.1	734.4
25°	8829.9	8514.0	7645.8	5206.3	3071.4	1873.0	1073.1	765.7	677.5	660.4	666.1
27.5°	9604.2	9339.5	8522.5	5476.7	2931.9	1631.1	908.0	703.1	643.3	606.3	592.1
30°	10347.1	10039.7	8958.0	5636.1	2633.0	1374.9	805.6	674.6	660.4	606.3	589.2
32.5°	10919.3	10617.6	9587.1	5875.2	2510.6	1209.8	663.2	526.6	489.6	483.9	535.1
35°	11796.0	11474.4	10125.1	6006.2	2416.7	1124.4	575.0	469.7	427.0	409.9	412.7
37.5°	12613.0	12393.8	10623.3	6057.4	2317.1	1098.8	515.2	421.3	384.3	372.9	370.0
40°	13296.2	12806.6	11095.8	6111.5	2274.4	1050.4	478.2	384.3	358.7	341.6	341.6
42.5°	13609.3	13111.1	11625.2	6080.2	2263.0	973.5	478.2	353.0	333.0	316.0	313.1
45°	13541.0	13338.9	11861.5	6066.0	2263.0	896.7	435.5	344.4	316.0	293.2	287.5
47.5°	13717.4	13452.7	12157.5	6125.7	2217.4	842.6	367.2	361.5	298.9	270.4	264.7
50°	13748.8	13800.0	12672.8	6436.0	2117.8	774.3	287.5	355.8	287.5	244.8	239.1
52°	13953.7	13634.9	12829.3	6601.1	2012.5	723.0	242.0	304.6	276.1	227.7	222.0
52.5°	13671.9	13879.7	12866.3	6660.9	2023.9	688.9	233.4	298.9	270.4	227.7	213.5
55°	13355.9	13555.2	12715.5	6789.0	1855.9	540.8	182.2	216.3	244.8	199.3	190.7
57.5°	11608.2	11810.3	11050.2	6216.8	1511.5	381.4	150.9	162.3	216.3	185.0	176.5
60°	10318.7	10173.5	9274.0	5186.4	1073.1	213.5	119.6	125.2	236.3	170.8	167.9
62.5°	9430.6	9120.3	7751.1	4005.1	654.7	142.3	93.9	96.8	182.2	159.4	159.4
65°	6976.9	6629.6	5149.4	2422.4	321.7	99.6	71.2	76.9	113.9	136.6	136.6
67.5°	3982.3	3848.5	2487.9	1093.1	133.8	62.6	54.1	59.8	88.2	111.0	105.3
70°	1830.3	1642.4	956.4	230.6	62.6	42.7	42.7	48.4	71.2	82.5	76.9
72.5°	535.1	506.7	233.4	37.0	25.6	25.6	28.5	37.0	54.1	62.6	56.9
75°	39.9	25.6	17.1	11.4	11.4	17.1	22.8	37.0	54.1	59.8	48.4
77.5°	2.8	5.7	2.8	2.8	8.5	17.1	25.6	45.5	71.2	74.0	54.1
80°	2.8	2.8	0.0	2.8	8.5	17.1	28.5	51.2	79.7	85.4	45.5
82.5°	0.0	0.0	0.0	2.8	11.4	22.8	34.2	54.1	74.0	91.1	48.4
85°	0.0	0.0	0.0	2.8	17.1	31.3	39.9	14.2	8.5	0.0	0.0
87.5°	0.0	0.0	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°	7275.7	7275.7	7275.7	7275.7	7275.7	7275.7	7275.7	7275.7	7275.7	7275.7	7275.7
2.5°	6120.0	6046.0	6017.6	6043.2	6034.6	6026.1	6182.7	6148.5	6142.8	6194.1	6182.7
5°	4594.3	4463.4	4822.0	4676.9	4827.7	4918.8	4935.9	4944.4	5049.7	4938.7	5083.9
7.5°	3273.5	3307.7	3304.8	3401.6	3575.2	3729.0	3820.0	3748.9	3743.2	3729.0	3666.3
10°	2616.0	2556.2	2544.8	2522.0	2576.1	2707.1	2818.1	2729.8	2667.2	2752.6	2727.0
12.5°	2137.7	2055.2	2009.7	1918.6	1921.4	2009.7	2009.7	2009.7	2072.3	2120.7	2157.7
15°	1639.6	1571.3	1571.3	1480.2	1460.3	1463.1	1508.7	1514.4	1614.0	1642.4	1656.7
17.5°	1147.2	1110.1	1152.8	1189.9	1167.1	1172.8	1189.9	1195.5	1209.8	1198.4	1226.9
20°	882.4	876.7	888.1	953.6	1002.0	1030.4	1010.5	982.1	965.0	925.1	925.1
22.5°	748.6	760.0	779.9	834.0	896.7	913.7	891.0	825.5	774.3	768.6	771.4
25°	666.1	677.5	708.8	742.9	777.1	805.6	782.8	734.4	705.9	680.3	680.3
27.5°	614.9	620.5	637.6	663.2	691.7	714.5	705.9	680.3	649.0	637.6	612.0
30°	575.0	583.5	603.5	609.2	634.8	646.2	631.9	626.2	606.3	592.1	583.5
32.5°	555.1	552.2	566.5	572.2	575.0	583.5	566.5	575.0	572.2	549.4	540.8
35°	418.4	441.2	478.2	509.5	518.1	529.5	526.6	515.2	483.9	458.3	427.0
37.5°	375.7	390.0	409.9	435.5	469.7	483.9	478.2	449.8	412.7	395.7	390.0
40°	347.3	355.8	372.9	390.0	424.1	449.8	429.8	404.2	375.7	361.5	353.0
42.5°	321.7	324.5	333.0	350.1	375.7	415.6	381.4	347.3	335.9	327.4	321.7
45°	293.2	293.2	304.6	313.1	341.6	378.6	344.4	313.1	307.4	301.7	298.9
47.5°	270.4	273.3	279.0	290.3	313.1	338.7	316.0	290.3	276.1	273.3	267.6
50°	242.0	244.8	256.2	267.6	296.0	310.3	296.0	267.6	253.3	244.8	244.8
52°	219.2	227.7	239.1	261.9	281.8	304.6	287.5	256.2	239.1	230.6	224.9
52.5°	216.3	222.0	233.4	259.0	281.8	301.7	284.7	253.3	233.4	227.7	222.0
55°	193.6	202.1	222.0	253.3	279.0	301.7	279.0	250.5	222.0	207.8	202.1
57.5°	185.0	190.7	216.3	256.2	276.1	301.7	279.0	250.5	222.0	196.4	190.7
60°	176.5	187.9	216.3	247.6	273.3	304.6	281.8	247.6	216.3	185.0	185.0
62.5°	167.9	176.5	213.5	242.0	261.9	293.2	270.4	242.0	207.8	176.5	173.6
65°	145.2	159.4	187.9	202.1	224.9	253.3	230.6	210.6	182.2	156.6	153.7
67.5°	111.0	116.7	139.5	156.6	170.8	196.4	185.0	159.4	139.5	119.6	119.6
70°	76.9	82.5	99.6	108.2	122.4	136.6	128.1	108.2	93.9	82.5	79.7
72.5°	54.1	56.9	62.6	68.3	74.0	79.7	76.9	62.6	54.1	51.2	48.4
75°	42.7	48.4	51.2	48.4	45.5	42.7	42.7	37.0	31.3	28.5	28.5
77.5°	42.7	45.5	42.7	37.0	31.3	28.5	25.6	22.8	17.1	14.2	17.1
80°	37.0	37.0	37.0	31.3	28.5	25.6	22.8	19.9	17.1	14.2	14.2
82.5°	39.9	39.9	37.0	31.3	31.3	25.6	25.6	22.8	19.9	14.2	14.2
85°	0.0	0.0	0.0	5.7	14.2	25.6	25.6	22.8	19.9	17.1	17.1
87.5°	0.0	0.0	0.0	0.0	2.8	5.7	11.4	14.2	17.1	17.1	17.1
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°	7275.7	7275.7	7275.7	7275.7	7275.7	7275.7	7275.7	7275.7	7275.7	7275.7	7275.7
2.5°	6285.1	6393.3	6598.3	6803.2	6928.5	7076.5	7344.1	7486.4	7671.4	7762.5	7941.8
5°	5064.0	5320.2	5411.3	5644.7	5895.2	6145.7	6544.2	6982.5	7346.9	7597.4	7921.9
7.5°	3694.8	3754.6	4107.5	4264.1	4674.0	5129.5	5673.1	6225.4	6686.5	7096.4	7344.1
10°	2769.7	2988.9	3210.9	3509.8	3840.0	4309.7	4830.6	5439.7	6037.5	6447.4	6760.5
12.5°	2226.0	2399.6	2695.7	3017.3	3424.4	3734.7	4258.4	4861.9	5636.1	6037.5	6450.2
15°	1685.1	1907.2	2243.1	2576.1	3005.9	3333.3	3862.7	4622.8	5619.1	6171.3	6527.1
17.5°	1249.6	1400.5	1702.2	2075.1	2513.5	2974.6	3689.1	4597.2	5809.8	6467.3	6834.5
20°	956.4	1007.7	1198.4	1531.4	2006.8	2610.3	3407.3	4708.2	6373.4	7187.5	7560.4
22.5°	774.3	797.0	871.0	1101.6	1562.7	2291.5	3273.5	4785.0	7008.2	8050.0	8548.1
25°	674.6	668.9	717.3	817.0	1221.2	1992.6	3102.7	5075.4	7785.3	9063.4	9510.3
27.5°	614.9	614.9	637.6	708.8	1013.4	1799.0	2994.6	5283.2	8568.1	9954.3	10196.3
30°	583.5	589.2	654.7	677.5	842.6	1568.4	2815.2	5493.8	9316.7	10523.6	10856.7
32.5°	540.8	518.1	503.8	560.8	708.8	1360.6	2635.9	5582.1	9923.0	11221.0	11505.7
35°	415.6	404.2	421.3	464.0	609.2	1184.2	2436.6	5681.7	10620.4	12029.4	12086.4
37.5°	375.7	372.9	384.3	421.3	512.4	1030.4	2294.3	5656.1	11152.7	12698.4	12544.7
40°	347.3	347.3	355.8	387.1	458.3	922.3	2146.3	5633.3	11667.9	13449.9	13000.1
42.5°	324.5	324.5	338.7	358.7	435.5	851.1	2035.3	5602.0	12100.6	13911.0	13267.7
45°	293.2	301.7	324.5	344.4	441.2	802.7	1952.7	5482.4	12248.6	13905.3	13139.6
47.5°	270.4	281.8	304.6	333.0	398.5	788.5	1895.8	5377.1	12197.4	13563.7	12738.2
50°	244.8	259.0	290.3	338.7	338.7	760.0	1836.0	5471.0	12160.4	13299.0	12354.0
52°	227.7	239.1	279.0	330.2	296.0	700.2	1799.0	5653.2	12311.3	13264.8	12183.2
52.5°	224.9	233.4	270.4	324.5	281.8	688.9	1773.4	5695.9	12359.6	13179.4	12299.9
55°	199.3	210.6	247.6	253.3	230.6	566.5	1690.8	5792.7	12120.5	13011.5	12188.9
57.5°	187.9	193.6	219.2	207.8	199.3	427.0	1454.6	5641.8	10765.6	11556.9	11340.6
60°	173.6	179.3	205.0	162.3	167.9	298.9	1093.1	4898.9	8644.9	9629.8	10019.8
62.5°	167.9	165.1	193.6	130.9	142.3	216.3	771.4	3982.3	6660.9	7927.6	8602.2
65°	148.0	145.2	139.5	111.0	122.4	167.9	461.1	2598.9	4693.9	5997.6	6367.7
67.5°	113.9	119.6	102.5	88.2	102.5	130.9	256.2	1164.2	2462.3	3598.0	3896.9
70°	79.7	85.4	82.5	76.9	91.1	108.2	148.0	398.5	1019.1	1890.1	2083.7
72.5°	48.4	59.8	62.6	65.5	79.7	93.9	105.3	128.1	270.4	668.9	831.2
75°	28.5	39.9	48.4	56.9	65.5	79.7	88.2	91.1	93.9	125.2	202.1
77.5°	19.9	28.5	42.7	54.1	65.5	79.7	93.9	99.6	93.9	88.2	93.9
80°	17.1	28.5	39.9	51.2	68.3	82.5	93.9	93.9	91.1	79.7	85.4
82.5°	17.1	28.5	42.7	54.1	65.5	79.7	91.1	93.9	85.4	79.7	82.5
85°	19.9	31.3	45.5	56.9	71.2	65.5	59.8	48.4	45.5	37.0	39.9
87.5°	19.9	28.5	28.5	31.3	34.2	34.2	34.2	31.3	25.6	22.8	22.8
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: P530057

CATALOG NUMBER: GALN-SA5B-730-U-SLR-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7275.7	7275.7	7275.7	7275.7	7275.7	7275.7	7275.7	7275.7	7275.7	7275.7
2.5°	7950.4	8178.1	8169.5	8175.2	8141.1	7910.5	7799.5	7517.7	7597.4	7563.2
5°	8254.9	8479.8	8673.4	8650.6	8388.7	8075.6	7611.6	7173.3	7053.7	6877.2
7.5°	7950.4	8491.2	8670.5	8644.9	8257.8	7856.4	7116.3	6678.0	6470.2	6353.5
10°	7466.5	8092.7	8314.7	8360.3	8098.4	7489.2	6808.9	6105.8	5994.8	5792.7
12.5°	7190.3	7645.8	7782.4	7904.8	7813.7	7358.3	6575.5	5900.9	5747.1	5613.4
15°	6965.5	7235.9	7292.8	7432.3	7486.4	7241.6	6697.9	6122.9	5744.3	5730.1
17.5°	7173.3	7062.2	6854.5	6897.1	7067.9	7244.4	7013.9	6561.3	6194.1	6148.5
20°	7517.7	7028.1	6558.4	6663.7	6806.1	7346.9	7492.1	7173.3	6962.6	6845.9
22.5°	7913.4	7087.9	6464.5	6515.7	6786.1	7577.5	8266.3	8089.8	7697.0	7529.1
25°	8644.9	7253.0	6538.5	6572.6	6942.7	7899.1	8966.6	9097.5	8864.1	8829.9
27.5°	9359.4	7679.9	6700.7	6623.9	7022.4	8212.2	9390.7	10093.8	9683.9	9604.2
30°	9723.8	8027.2	6942.7	6811.8	7352.6	8403.0	9646.9	10742.8	10384.2	10347.1
32.5°	10281.7	8343.2	7130.6	6962.6	7537.6	8639.2	10125.1	11451.6	11104.3	10919.3
35°	10515.1	8687.6	7543.3	7346.9	8067.1	8969.4	10369.9	12083.5	11975.4	11796.0
37.5°	10964.8	9057.7	8030.1	8018.7	8707.5	9399.3	10811.1	12943.2	12923.3	12613.0
40°	11001.8	9461.9	8798.6	9157.3	9698.1	10147.9	11198.3	13182.3	13506.8	13296.2
42.5°	11058.8	10170.7	10128.0	10424.0	10888.0	10791.2	11212.5	13239.2	13734.5	13609.3
45°	11084.4	10879.4	11480.1	12026.6	12220.2	11633.8	11078.7	13131.1	13854.1	13541.0
47.5°	10879.4	11488.6	12573.1	13629.2	13686.1	12151.8	11021.8	13020.0	13925.2	13717.4
50°	10907.9	11870.0	13518.2	14463.2	14255.4	12610.1	10933.5	12951.7	13888.2	13748.8
52°	10839.6	11878.6	13652.0	14446.2	14301.0	12356.8	10782.7	12689.8	13854.1	13953.7
52.5°	10916.5	11827.3	13512.5	14457.5	14269.7	12482.0	10762.7	12835.0	13874.0	13671.9
55°	10651.7	11218.2	12695.5	13096.9	13068.4	11329.2	10150.7	12354.0	13353.1	13355.9
57.5°	9627.0	9723.8	9957.2	9948.6	9817.7	8906.8	8681.9	11360.5	11904.2	11608.2
60°	8482.7	7119.2	6490.1	6233.9	6088.7	5940.7	7679.9	10392.7	10443.9	10318.7
62.5°	7329.8	4935.9	4099.0	4027.8	4062.0	4602.8	7423.8	10008.4	9701.0	9430.6
65°	5915.1	3598.0	2977.5	2883.5	3216.6	3800.1	6009.0	7674.3	7201.7	6976.9
67.5°	3714.7	2624.5	2012.5	1836.0	2237.4	2616.0	3948.1	4822.0	4292.6	3982.3
70°	2203.2	1466.0	910.9	817.0	919.4	1394.8	2211.8	2405.3	1989.7	1830.3
72.5°	868.2	538.0	253.3	216.3	224.9	489.6	814.1	794.2	600.6	535.1
75°	233.4	162.3	88.2	71.2	59.8	91.1	130.9	85.4	31.3	39.9
77.5°	108.2	96.8	76.9	59.8	45.5	34.2	17.1	5.7	5.7	2.8
80°	93.9	82.5	71.2	59.8	45.5	28.5	14.2	2.8	2.8	2.8
82.5°	88.2	76.9	65.5	54.1	42.7	28.5	14.2	2.8	0.0	0.0
85°	37.0	48.4	54.1	51.2	45.5	28.5	14.2	2.8	0.0	0.0
87.5°	19.9	17.1	14.2	11.4	8.5	5.7	5.7	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

(END OF REPORT)