

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: P534035

Luminaire Tested: **GALN-SA9C-730-U-SLR-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534035  
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-SA9C-730-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 1050mA 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: 32089 lumens  
Efficiency: N/A  
Efficacy: 66.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G2

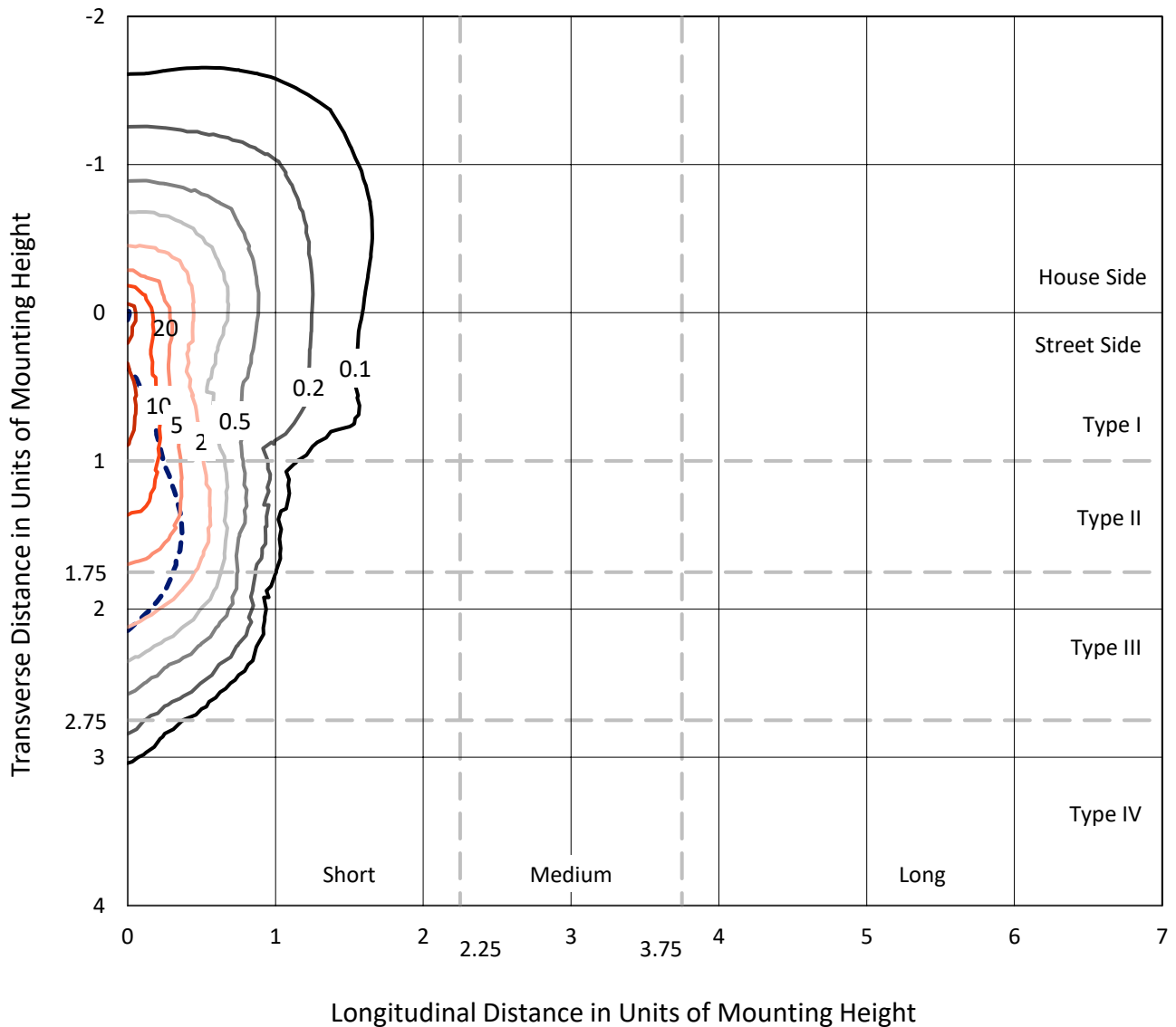
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

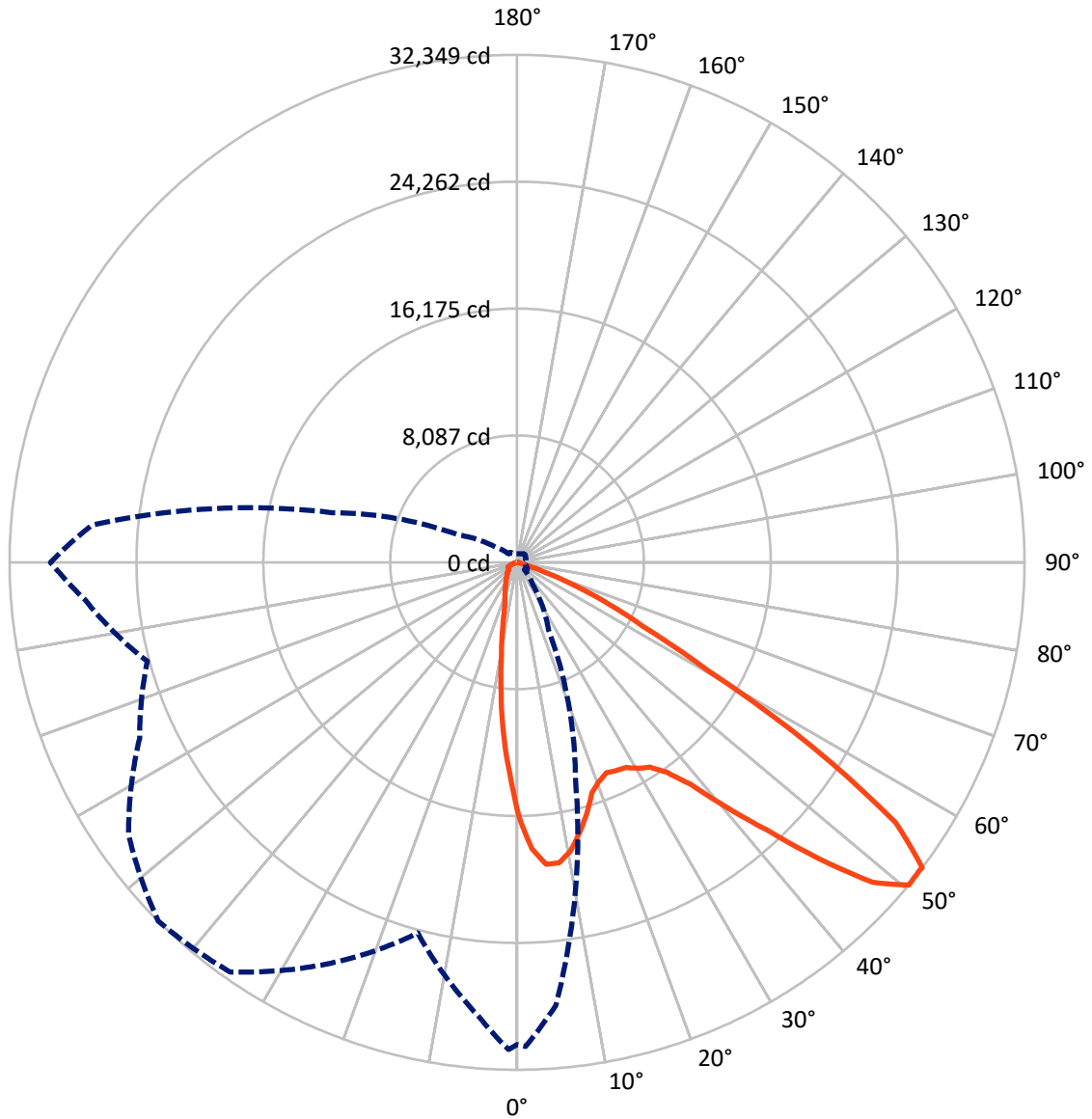
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26 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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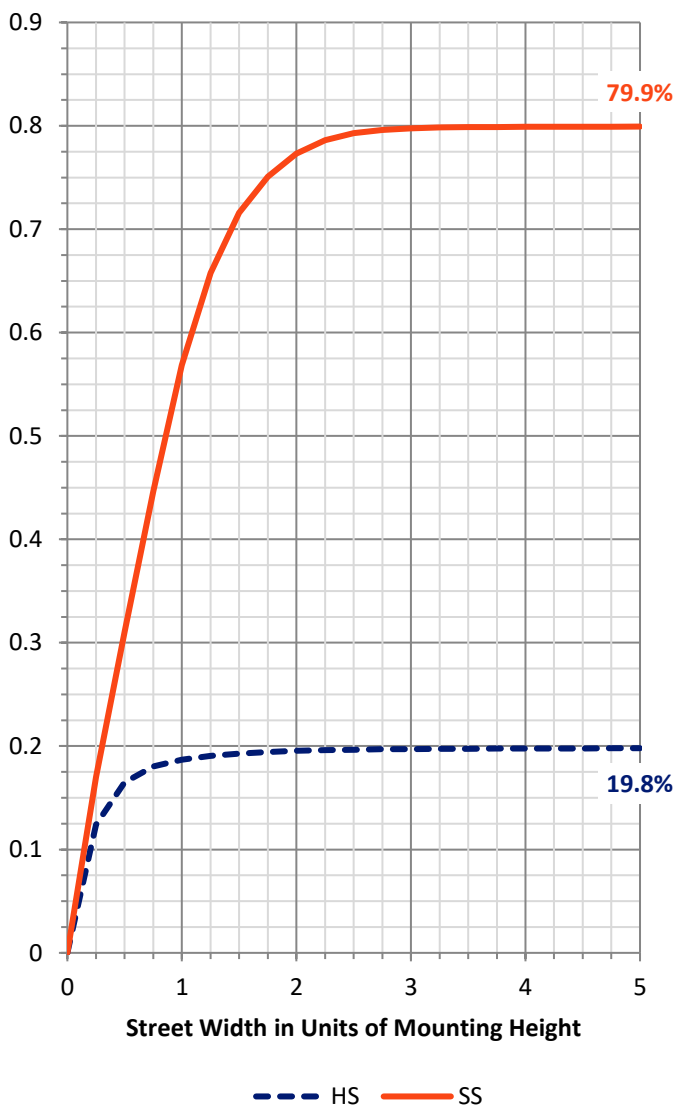
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6427.4	0.0	6427.4
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	25661.6	0.0	25661.6
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	32089.0	0.0	32089.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1186.1	3.7
10°-20°	2357.4	7.3
20°-30°	3541.5	11.0
30°-40°	5315.8	16.6
40°-50°	7470.9	23.3
50°-60°	8058.7	25.1
60°-70°	3741.6	11.7
70°-80°	352.1	1.1
80°-90°	64.9	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°	32089.0	100.0
0°-180°	32089.0	100.0

**Coefficient of Utilization**

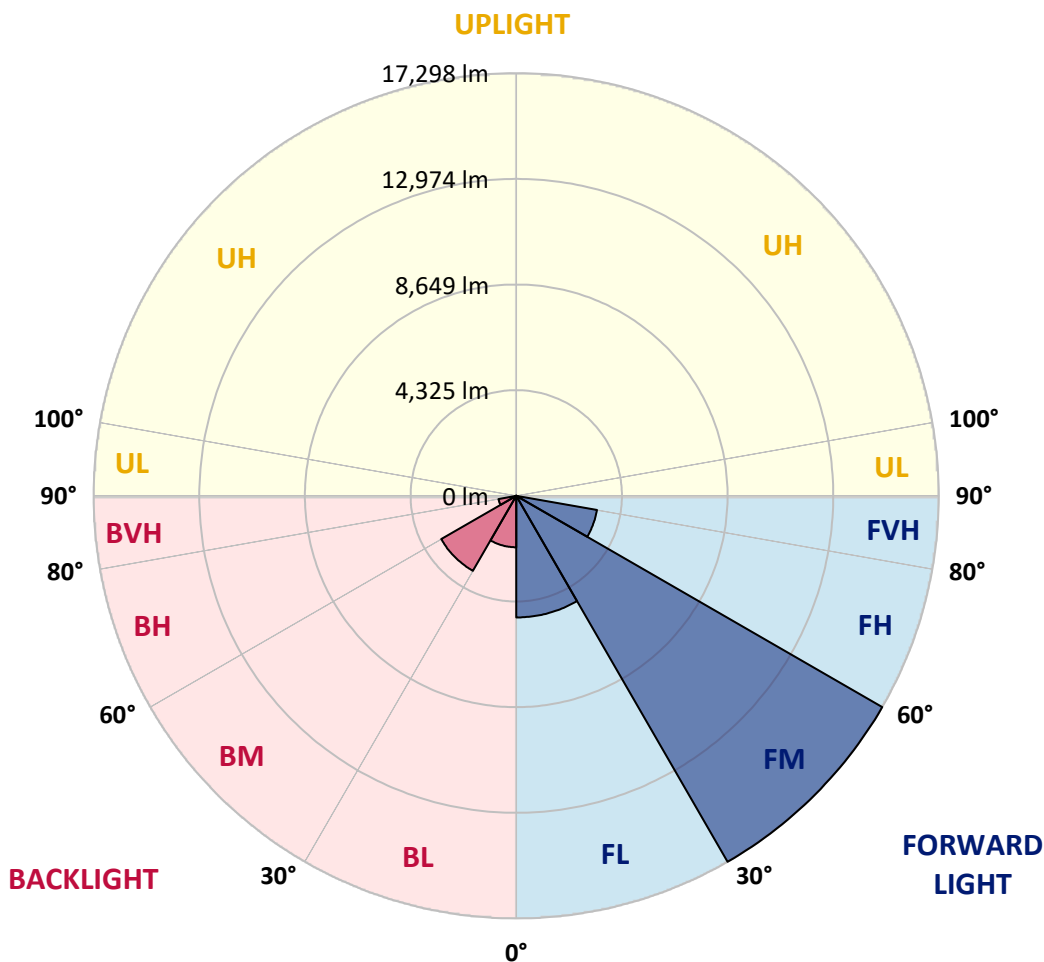


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4978.3	15.5			
FM (30°-60°)	17298.4	53.9			
FH (60°-80°)	3355.6	10.5			G2/5000
FVH (80°-90°)	29.2	0.1			G1/100
BL (0°-30°)	2106.7	6.6	B3/2500		
BM (30°-60°)	3547.0	11.1	B3/5000		
BH (60°-80°)	738.0	2.3	B2/1000		G2/1000
BVH (80°-90°)	35.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	16273.2	16273.2	16273.2	16273.2	16273.2	16273.2	16273.2	16273.2	16273.2	16273.2	16273.2
2.5°	16916.2	16655.2	16324.1	16050.3	15642.9	14821.6	14598.7	14331.3	14108.5	13809.3	13389.1
5°	15381.8	15299.1	15146.3	14114.9	13370.0	12376.8	11561.8	11218.0	10766.0	10396.7	10129.3
7.5°	14210.4	13879.3	13395.4	12357.7	11167.1	10103.9	9199.8	8671.4	8072.9	7869.2	7506.3
10°	12956.1	13032.5	12319.5	10861.5	9422.6	8563.1	8002.9	7493.6	6952.4	6595.9	6080.2
12.5°	12555.0	12306.7	11759.2	9957.4	8728.7	7926.5	7245.3	6615.0	6042.0	5469.0	4972.4
15°	12816.1	12434.1	11670.1	9766.4	8193.9	7194.3	6341.2	5488.1	4959.6	4227.5	3711.8
17.5°	13752.0	13446.4	12421.3	9970.2	7920.1	6494.0	5227.0	4348.4	3539.9	2877.7	2616.7
20°	15311.8	14878.9	13592.8	10231.2	7512.7	5647.2	4240.2	3157.9	2393.9	2113.7	1967.3
22.5°	16839.8	16604.2	14980.7	10734.2	7149.8	4896.0	3183.3	2126.5	1789.0	1738.1	1642.6
25°	19749.4	19042.7	17100.8	11644.6	6869.6	4189.3	2400.2	1712.6	1515.3	1477.1	1489.8
27.5°	21481.1	20889.0	19061.8	12249.4	6557.7	3648.1	2031.0	1572.6	1438.9	1356.1	1324.3
30°	23142.8	22455.2	20035.9	12606.0	5889.2	3075.1	1801.8	1508.9	1477.1	1356.1	1317.9
32.5°	24422.5	23747.6	21442.9	13140.8	5615.4	2705.8	1483.4	1177.8	1095.1	1082.3	1196.9
35°	26383.4	25664.0	22646.2	13433.6	5405.3	2514.8	1286.1	1050.5	955.0	916.8	923.2
37.5°	28210.6	27720.4	23760.4	13548.2	5182.5	2457.5	1152.4	942.3	859.5	834.0	827.7
40°	29738.6	28643.6	24817.2	13669.2	5087.0	2349.3	1069.6	859.5	802.2	764.0	764.0
42.5°	30439.0	29324.8	26001.4	13599.2	5061.5	2177.4	1069.6	789.5	744.9	706.7	700.3
45°	30286.2	29834.1	26529.8	13567.3	5061.5	2005.5	974.1	770.4	706.7	655.8	643.0
47.5°	30680.9	30088.8	27192.0	13701.0	4959.6	1884.5	821.3	808.6	668.5	604.8	592.1
50°	30750.9	30865.5	28344.3	14395.0	4736.8	1731.7	643.0	795.8	643.0	547.5	534.8
52°	31209.3	30496.3	28694.5	14764.3	4501.2	1617.1	541.2	681.2	617.6	509.3	496.6
52.5°	30579.0	31043.8	28777.3	14898.0	4526.7	1540.7	522.1	668.5	604.8	509.3	477.5
55°	29872.3	30318.0	28439.8	15184.5	4151.1	1209.7	407.5	483.9	547.5	445.7	426.6
57.5°	25963.2	26415.2	24715.4	13904.8	3380.7	853.1	337.4	362.9	483.9	413.8	394.7
60°	23079.1	22754.4	20742.6	11600.0	2400.2	477.5	267.4	280.1	528.4	382.0	375.6
62.5°	21092.7	20398.8	17336.4	8957.9	1464.3	318.3	210.1	216.5	407.5	356.5	356.5
65°	15604.7	14827.9	11517.3	5418.0	719.4	222.8	159.2	171.9	254.7	305.6	305.6
67.5°	8906.9	8607.7	5564.5	2444.8	299.2	140.1	121.0	133.7	197.4	248.3	235.6
70°	4093.8	3673.6	2139.2	515.7	140.1	95.5	95.5	108.2	159.2	184.6	171.9
72.5°	1196.9	1133.3	522.1	82.8	57.3	57.3	63.7	82.8	121.0	140.1	127.3
75°	89.1	57.3	38.2	25.5	25.5	38.2	50.9	82.8	121.0	133.7	108.2
77.5°	6.4	12.7	6.4	6.4	19.1	38.2	57.3	101.9	159.2	165.5	121.0
80°	6.4	6.4	0.0	6.4	19.1	38.2	63.7	114.6	178.3	191.0	101.9
82.5°	0.0	0.0	0.0	6.4	25.5	50.9	76.4	121.0	165.5	203.7	108.2
85°	0.0	0.0	0.0	6.4	38.2	70.0	89.1	31.8	19.1	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°	16273.2	16273.2	16273.2	16273.2	16273.2	16273.2	16273.2	16273.2	16273.2	16273.2	16273.2
2.5°	13688.3	13522.8	13459.1	13516.4	13497.3	13478.2	13828.4	13752.0	13739.2	13853.8	13828.4
5°	10275.8	9982.9	10785.1	10460.4	10797.8	11001.6	11039.8	11058.9	11294.4	11046.1	11370.8
7.5°	7321.7	7398.1	7391.7	7608.2	7996.5	8340.3	8544.0	8384.9	8372.2	8340.3	8200.3
10°	5851.0	5717.3	5691.8	5640.9	5761.8	6054.7	6303.0	6105.6	5965.6	6156.6	6099.3
12.5°	4781.4	4596.7	4494.9	4291.1	4297.5	4494.9	4494.9	4494.9	4634.9	4743.2	4825.9
15°	3667.2	3514.4	3514.4	3310.7	3266.1	3272.5	3374.3	3387.1	3609.9	3673.6	3705.4
17.5°	2565.8	2483.0	2578.5	2661.3	2610.3	2623.1	2661.3	2674.0	2705.8	2680.4	2744.0
20°	1973.7	1960.9	1986.4	2132.8	2241.1	2304.7	2260.2	2196.5	2158.3	2069.2	2069.2
22.5°	1674.4	1699.9	1744.5	1865.4	2005.5	2043.7	1992.8	1846.3	1731.7	1719.0	1725.4
25°	1489.8	1515.3	1585.3	1661.7	1738.1	1801.8	1750.8	1642.6	1578.9	1521.6	1521.6
27.5°	1375.2	1387.9	1426.1	1483.4	1547.1	1598.0	1578.9	1521.6	1451.6	1426.1	1368.8
30°	1286.1	1305.2	1349.7	1362.5	1419.8	1445.2	1413.4	1400.7	1356.1	1324.3	1305.2
32.5°	1241.5	1235.1	1267.0	1279.7	1286.1	1305.2	1267.0	1286.1	1279.7	1228.8	1209.7
35°	935.9	986.8	1069.6	1139.6	1158.7	1184.2	1177.8	1152.4	1082.3	1025.0	955.0
37.5°	840.4	872.2	916.8	974.1	1050.5	1082.3	1069.6	1005.9	923.2	885.0	872.2
40°	776.7	795.8	834.0	872.2	948.6	1005.9	961.4	904.1	840.4	808.6	789.5
42.5°	719.4	725.8	744.9	783.1	840.4	929.5	853.1	776.7	751.3	732.2	719.4
45°	655.8	655.8	681.2	700.3	764.0	846.8	770.4	700.3	687.6	674.9	668.5
47.5°	604.8	611.2	623.9	649.4	700.3	757.6	706.7	649.4	617.6	611.2	598.5
50°	541.2	547.5	573.0	598.5	662.1	694.0	662.1	598.5	566.6	547.5	547.5
52°	490.2	509.3	534.8	585.7	630.3	681.2	643.0	573.0	534.8	515.7	503.0
52.5°	483.9	496.6	522.1	579.4	630.3	674.9	636.7	566.6	522.1	509.3	496.6
55°	432.9	452.0	496.6	566.6	623.9	674.9	623.9	560.3	496.6	464.8	452.0
57.5°	413.8	426.6	483.9	573.0	617.6	674.9	623.9	560.3	496.6	439.3	426.6
60°	394.7	420.2	483.9	553.9	611.2	681.2	630.3	553.9	483.9	413.8	413.8
62.5°	375.6	394.7	477.5	541.2	585.7	655.8	604.8	541.2	464.8	394.7	388.4
65°	324.7	356.5	420.2	452.0	503.0	566.6	515.7	471.1	407.5	350.2	343.8
67.5°	248.3	261.0	312.0	350.2	382.0	439.3	413.8	356.5	312.0	267.4	267.4
70°	171.9	184.6	222.8	241.9	273.8	305.6	286.5	241.9	210.1	184.6	178.3
72.5°	121.0	127.3	140.1	152.8	165.5	178.3	171.9	140.1	121.0	114.6	108.2
75°	95.5	108.2	114.6	108.2	101.9	95.5	95.5	82.8	70.0	63.7	63.7
77.5°	95.5	101.9	95.5	82.8	70.0	63.7	57.3	50.9	38.2	31.8	38.2
80°	82.8	82.8	82.8	70.0	63.7	57.3	50.9	44.6	38.2	31.8	31.8
82.5°	89.1	89.1	82.8	70.0	70.0	57.3	57.3	50.9	44.6	31.8	31.8
85°	0.0	0.0	0.0	12.7	31.8	57.3	57.3	50.9	44.6	38.2	38.2
87.5°	0.0	0.0	0.0	0.0	6.4	12.7	25.5	31.8	38.2	38.2	38.2
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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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	16273.2	16273.2	16273.2	16273.2	16273.2	16273.2	16273.2	16273.2	16273.2	16273.2	16273.2
2.5°	14057.6	14299.5	14757.9	15216.3	15496.4	15827.5	16426.0	16744.3	17158.1	17361.9	17763.0
5°	11326.3	11899.3	12103.0	12625.1	13185.3	13745.6	14636.9	15617.4	16432.3	16992.6	17718.4
7.5°	8263.9	8397.6	9187.1	9537.2	10454.0	11472.7	12688.7	13923.9	14955.3	15872.1	16426.0
10°	6194.8	6685.0	7181.6	7850.1	8588.6	9639.1	10804.2	12166.7	13503.7	14420.5	15120.8
12.5°	4978.7	5367.1	6029.2	6748.7	7659.1	8353.1	9524.5	10874.2	12606.0	13503.7	14426.8
15°	3769.1	4265.7	5016.9	5761.8	6723.2	7455.4	8639.5	10339.4	12567.8	13802.9	14598.7
17.5°	2795.0	3132.4	3807.3	4641.3	5621.8	6653.2	8251.2	10282.1	12994.3	14465.0	15286.3
20°	2139.2	2253.8	2680.4	3425.3	4488.5	5838.2	7620.9	10530.4	14254.9	16075.8	16909.8
22.5°	1731.7	1782.7	1948.2	2463.9	3495.3	5125.2	7321.7	10702.3	15674.7	18004.9	19119.1
25°	1508.9	1496.2	1604.4	1827.2	2731.3	4456.7	6939.7	11351.7	17412.8	20271.4	21271.0
27.5°	1375.2	1375.2	1426.1	1585.3	2266.5	4023.7	6697.7	11816.5	19163.6	22264.2	22805.4
30°	1305.2	1317.9	1464.3	1515.3	1884.5	3508.0	6296.6	12287.6	20838.1	23537.5	24282.4
32.5°	1209.7	1158.7	1126.9	1254.2	1585.3	3043.3	5895.5	12485.0	22194.2	25097.4	25734.0
35°	929.5	904.1	942.3	1037.8	1362.5	2648.5	5449.9	12707.8	23754.0	26905.5	27032.8
37.5°	840.4	834.0	859.5	942.3	1146.0	2304.7	5131.5	12650.5	24944.6	28401.6	28057.8
40°	776.7	776.7	795.8	865.9	1025.0	2062.8	4800.5	12599.6	26096.9	30082.4	29076.5
42.5°	725.8	725.8	757.6	802.2	974.1	1903.6	4552.2	12529.6	27064.6	31113.8	29675.0
45°	655.8	674.9	725.8	770.4	986.8	1795.4	4367.5	12262.2	27395.7	31101.1	29388.5
47.5°	604.8	630.3	681.2	744.9	891.3	1763.6	4240.2	12026.6	27281.1	30337.1	28490.8
50°	547.5	579.4	649.4	757.6	757.6	1699.9	4106.5	12236.7	27198.3	29745.0	27631.3
52°	509.3	534.8	623.9	738.5	662.1	1566.2	4023.7	12644.2	27535.8	29668.6	27249.3
52.5°	503.0	522.1	604.8	725.8	630.3	1540.7	3966.4	12739.7	27644.0	29477.6	27510.3
55°	445.7	471.1	553.9	566.6	515.7	1267.0	3781.8	12956.1	27109.2	29102.0	27262.0
57.5°	420.2	432.9	490.2	464.8	445.7	955.0	3253.4	12618.7	24078.7	25848.6	25364.7
60°	388.4	401.1	458.4	362.9	375.6	668.5	2444.8	10957.0	19335.5	21538.4	22410.6
62.5°	375.6	369.3	432.9	292.9	318.3	483.9	1725.4	8906.9	14898.0	17731.1	19240.0
65°	331.1	324.7	312.0	248.3	273.8	375.6	1031.4	5812.8	10498.6	13414.5	14242.2
67.5°	254.7	267.4	229.2	197.4	229.2	292.9	573.0	2604.0	5507.2	8047.5	8715.9
70°	178.3	191.0	184.6	171.9	203.7	241.9	331.1	891.3	2279.3	4227.5	4660.4
72.5°	108.2	133.7	140.1	146.4	178.3	210.1	235.6	286.5	604.8	1496.2	1859.1
75°	63.7	89.1	108.2	127.3	146.4	178.3	197.4	203.7	210.1	280.1	452.0
77.5°	44.6	63.7	95.5	121.0	146.4	178.3	210.1	222.8	210.1	197.4	210.1
80°	38.2	63.7	89.1	114.6	152.8	184.6	210.1	210.1	203.7	178.3	191.0
82.5°	38.2	63.7	95.5	121.0	146.4	178.3	203.7	210.1	191.0	178.3	184.6
85°	44.6	70.0	101.9	127.3	159.2	146.4	133.7	108.2	101.9	82.8	89.1
87.5°	44.6	63.7	63.7	70.0	76.4	76.4	76.4	70.0	57.3	50.9	50.9
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: P534035

CATALOG NUMBER: GALN-SA9C-730-U-SLR-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	16273.2	16273.2	16273.2	16273.2	16273.2	16273.2	16273.2	16273.2	16273.2	16273.2
2.5°	17782.1	18291.4	18272.3	18285.0	18208.6	17692.9	17444.6	16814.3	16992.6	16916.2
5°	18463.3	18966.3	19399.2	19348.3	18762.5	18062.2	17024.4	16044.0	15776.6	15381.8
7.5°	17782.1	18991.7	19392.8	19335.5	18469.7	17572.0	15916.6	14936.2	14471.4	14210.4
10°	16699.7	18100.4	18597.0	18698.9	18113.1	16750.7	15229.0	13656.5	13408.2	12956.1
12.5°	16082.2	17100.8	17406.4	17680.2	17476.5	16457.8	14707.0	13198.1	12854.3	12555.0
15°	15579.2	16184.0	16311.4	16623.3	16744.3	16196.8	14980.7	13694.7	12847.9	12816.1
17.5°	16044.0	15795.7	15330.9	15426.4	15808.4	16203.1	15687.4	14675.1	13853.8	13752.0
20°	16814.3	15719.3	14668.8	14904.3	15222.7	16432.3	16757.0	16044.0	15572.8	15311.8
22.5°	17699.3	15853.0	14458.7	14573.3	15178.1	16948.0	18488.8	18094.0	17215.4	16839.8
25°	19335.5	16222.2	14624.2	14700.6	15528.3	17667.5	20055.0	20347.8	19825.8	19749.4
27.5°	20933.6	17177.2	14987.1	14815.2	15706.5	18367.8	21003.6	22576.2	21659.4	21481.1
30°	21748.5	17954.0	15528.3	15235.4	16445.1	18794.4	21576.6	24027.8	23225.6	23142.8
32.5°	22996.4	18660.7	15948.5	15572.8	16858.9	19322.8	22646.2	25613.0	24836.3	24422.5
35°	23518.4	19431.0	16871.6	16432.3	18043.1	20061.3	23193.7	27026.4	26784.5	26383.4
37.5°	24524.4	20258.7	17960.3	17934.9	19475.6	21022.7	24180.6	28949.2	28904.6	28210.6
40°	24607.1	21162.8	19679.3	20481.5	21691.2	22697.1	25046.4	29484.0	30209.8	29738.6
42.5°	24734.5	22748.1	22652.6	23314.7	24352.5	24136.0	25078.3	29611.3	30719.1	30439.0
45°	24791.8	24333.4	25676.7	26899.1	27332.0	26020.5	24779.0	29369.4	30986.5	30286.2
47.5°	24333.4	25695.8	28121.5	30483.5	30610.9	27179.2	24651.7	29121.1	31145.7	30680.9
50°	24397.0	26548.9	30235.2	32349.0	31884.2	28204.3	24454.3	28968.3	31062.9	30750.9
52°	24244.2	26568.0	30534.5	32310.8	31986.1	27637.6	24116.9	28382.5	30986.5	31209.3
52.5°	24416.1	26453.4	30222.5	32336.2	31916.0	27917.8	24072.3	28707.2	31031.1	30579.0
55°	23824.0	25091.0	28395.3	29293.0	29229.3	25339.3	22703.5	27631.3	29866.0	29872.3
57.5°	21532.0	21748.5	22270.6	22251.5	21958.6	19921.3	19418.3	25409.3	26625.3	25963.2
60°	18972.6	15923.0	14516.0	13943.0	13618.3	13287.2	17177.2	23244.7	23359.3	23079.1
62.5°	16394.1	11039.8	9168.0	9008.8	9085.2	10294.9	16604.2	22385.2	21697.6	21092.7
65°	13229.9	8047.5	6659.5	6449.4	7194.3	8499.5	13440.0	17164.5	16107.6	15604.7
67.5°	8308.5	5870.1	4501.2	4106.5	5004.2	5851.0	8830.5	10785.1	9600.9	8906.9
70°	4927.8	3278.8	2037.3	1827.2	2056.4	3119.7	4946.9	5379.8	4450.3	4093.8
72.5°	1941.8	1203.3	566.6	483.9	503.0	1095.1	1820.9	1776.3	1343.4	1196.9
75°	522.1	362.9	197.4	159.2	133.7	203.7	292.9	191.0	70.0	89.1
77.5°	241.9	216.5	171.9	133.7	101.9	76.4	38.2	12.7	12.7	6.4
80°	210.1	184.6	159.2	133.7	101.9	63.7	31.8	6.4	6.4	6.4
82.5°	197.4	171.9	146.4	121.0	95.5	63.7	31.8	6.4	0.0	0.0
85°	82.8	108.2	121.0	114.6	101.9	63.7	31.8	6.4	0.0	0.0
87.5°	44.6	38.2	31.8	25.5	19.1	12.7	12.7	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)