

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: P456265

Luminaire Tested: **GALN-SA7C-730-U-SLR-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456265  
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-SA7C-730-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 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: 32027 lumens  
Efficiency: N/A  
Efficacy: 85.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 377  
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

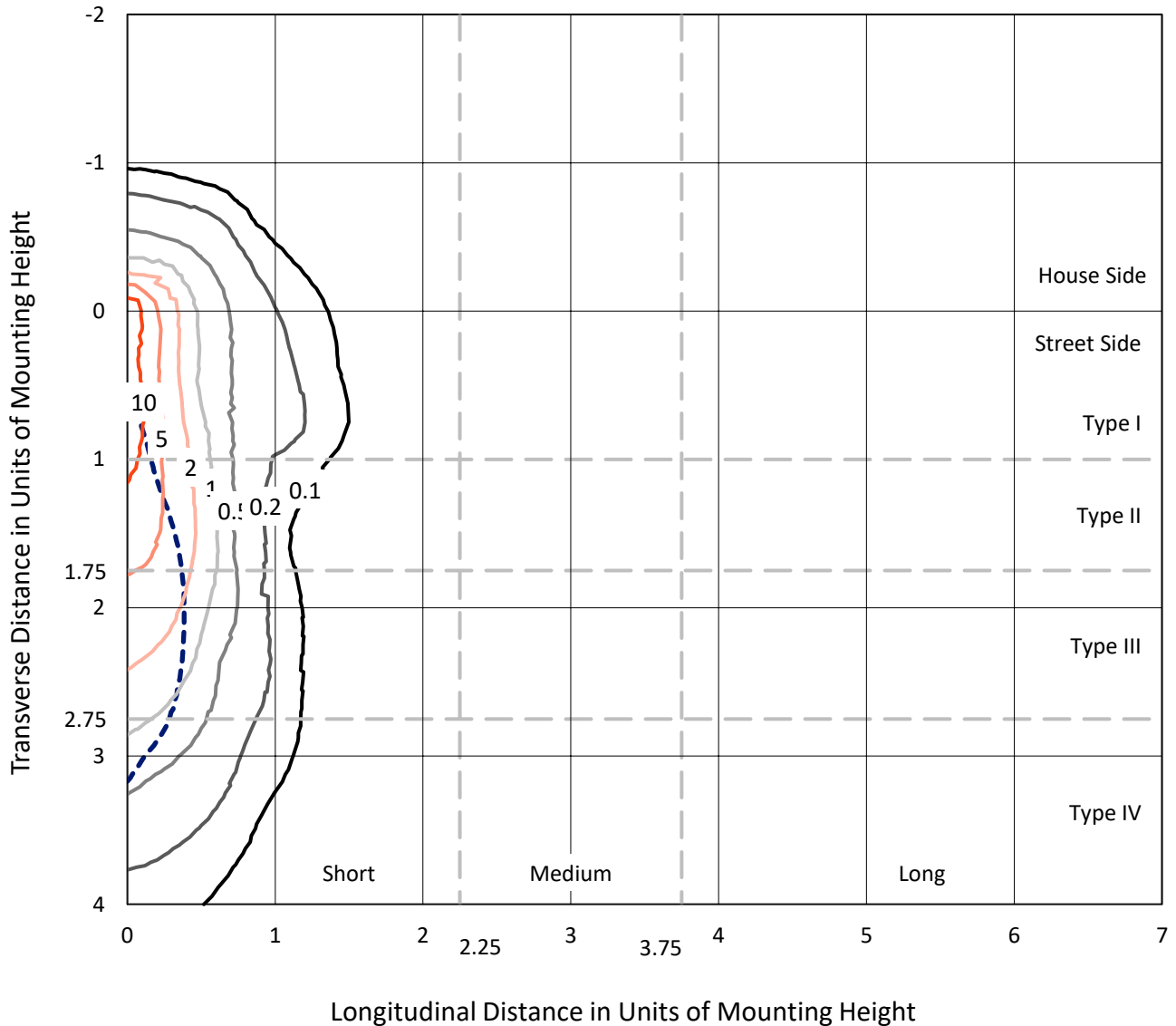




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### Iso-Footcandle Lines of Horizontal Illumination

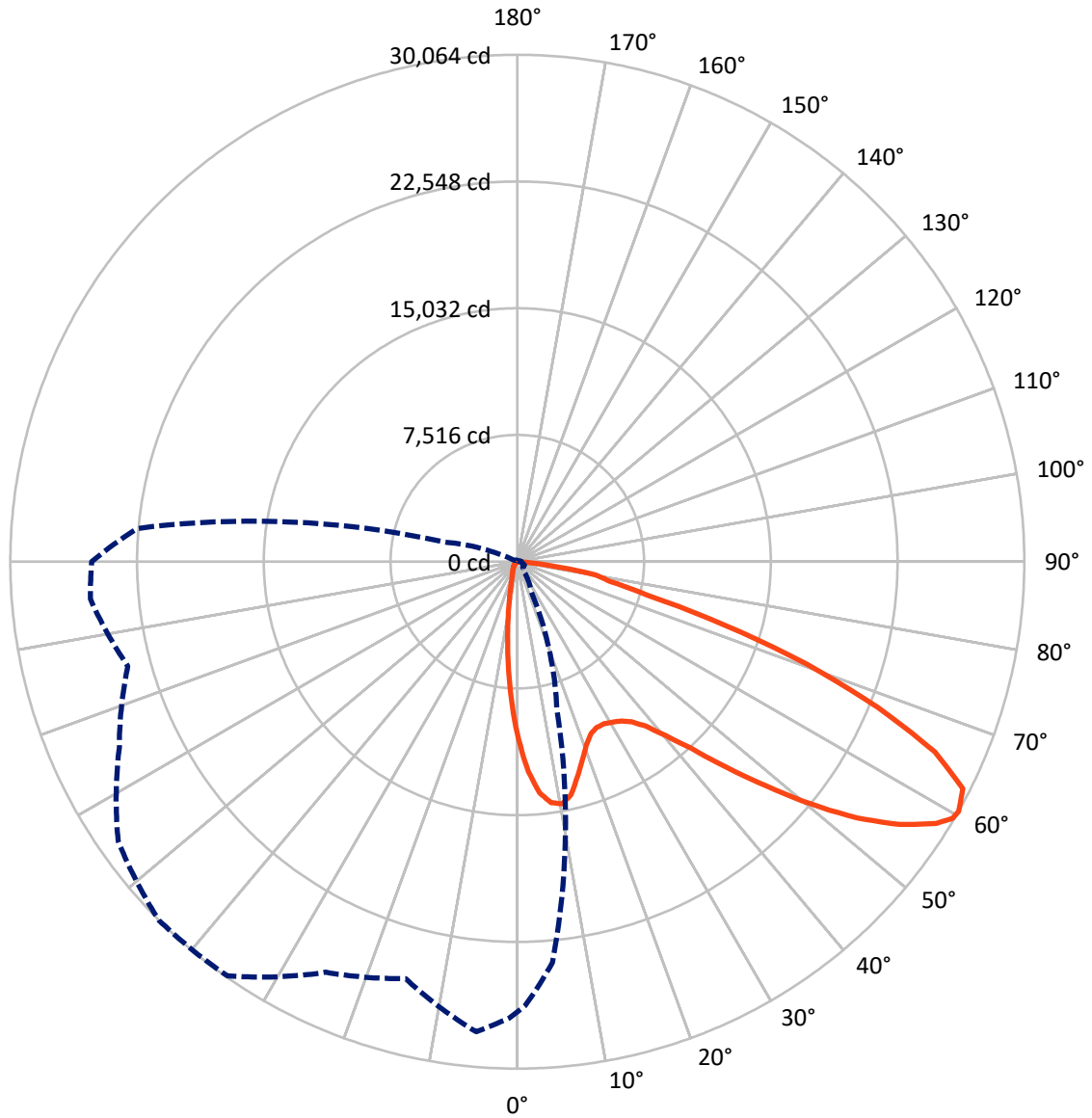
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.9 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	3950.2	0.0	3950.2
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	28076.8	0.0	28076.8
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	32027.0	0.0	32027.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	787.3	2.5
10°-20°	1563.6	4.9
20°-30°	2292.7	7.2
30°-40°	3409.6	10.6
40°-50°	4962.0	15.5
50°-60°	7155.6	22.3
60°-70°	7870.4	24.6
70°-80°	3525.3	11.0
80°-90°	460.6	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°	32027.0	100.0
0°-180°	32027.0	100.0

**Coefficient of Utilization**



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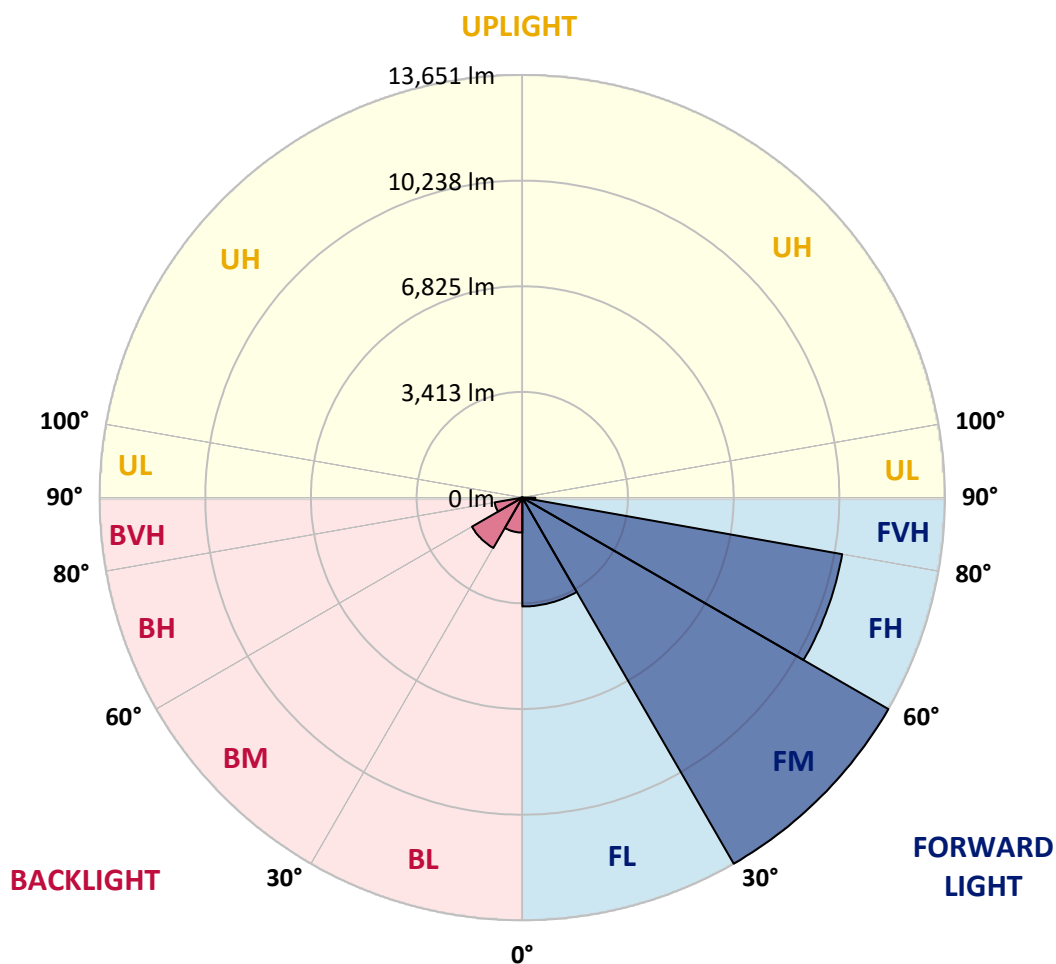
CATALOG NUMBER: GALN-SA7C-730-U-SLR-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3514.9	11.0			
FM	(30°-60°)	13650.9	42.6			
FH	(60°-80°)	10489.8	32.8			G4/12000
FVH	(80°-90°)	421.3	1.3			G3/500
BL	(0°-30°)	1128.7	3.5	B3/2500		
BM	(30°-60°)	1876.3	5.9	B2/2500		
BH	(60°-80°)	905.9	2.8	B2/1000		G2/1000
BVH	(80°-90°)	39.4	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-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10585.4	10585.4	10585.4	10585.4	10585.4	10585.4	10585.4	10585.4	10585.4	10585.4	10585.4
2.5°	11637.1	11586.0	11469.1	11113.7	10804.5	10400.4	9991.4	9670.0	9472.8	9110.0	8944.5
5°	11274.4	11298.7	10960.3	10229.9	9416.8	8861.7	8255.5	7773.5	7242.8	6906.8	6553.8
7.5°	10327.3	10278.6	9911.0	8893.4	7905.0	7101.6	6334.7	5711.4	5319.5	5005.4	4742.5
10°	9516.6	9480.1	9010.2	7700.5	6639.0	6037.7	5519.1	4973.8	4552.6	4092.5	3724.8
12.5°	9007.8	8925.0	8384.6	7016.3	6152.1	5592.1	5027.3	4460.1	3878.2	3413.2	2967.7
15°	8837.4	8718.1	8116.8	6780.2	5840.5	5129.6	4421.1	3768.7	3099.2	2585.5	2249.5
17.5°	9146.6	8949.4	8309.1	6738.8	5468.0	4525.8	3654.2	2804.6	2108.3	1716.4	1509.4
20°	9855.0	9628.6	8796.0	6697.4	5054.1	3849.0	2777.8	1981.7	1458.3	1244.1	1129.6
22.5°	10906.7	10595.1	9516.6	6763.2	4671.9	3189.2	2006.1	1399.9	1158.8	1024.9	944.6
25°	12170.3	11909.8	10429.6	6996.9	4370.0	2670.7	1550.8	1144.2	976.3	893.5	832.6
27.5°	13555.5	13139.2	11610.3	7276.8	4094.9	2269.0	1360.9	1022.5	869.1	793.7	762.0
30°	14541.5	14217.7	12598.7	7471.6	3751.6	1967.1	1244.1	1007.9	871.6	781.5	723.1
32.5°	15515.3	15101.5	13426.5	7561.7	3500.9	1757.7	1076.1	878.9	764.4	718.2	659.8
35°	16557.3	16124.0	14251.8	7513.0	3313.4	1619.0	976.3	783.9	654.9	577.0	518.6
37.5°	17611.5	17153.8	15072.2	7337.7	3196.6	1563.0	898.3	745.0	618.4	538.0	474.7
40°	18862.8	18251.7	15841.6	7194.1	3074.8	1533.8	847.2	720.6	591.6	506.4	443.1
42.5°	19885.3	19303.5	16569.5	7118.6	2992.1	1465.6	847.2	701.1	574.6	479.6	413.9
45°	20854.3	20250.5	17355.8	7179.5	2958.0	1380.4	857.0	698.7	562.4	460.1	394.4
47.5°	21665.0	21141.5	18164.1	7408.3	2914.1	1287.9	805.8	732.8	555.1	443.1	374.9
50°	22621.7	22115.4	19232.9	7870.9	2836.2	1195.4	742.5	788.8	552.6	428.5	357.9
52.5°	23970.5	23422.7	20708.2	8396.7	2712.1	1054.2	684.1	781.5	542.9	404.1	340.8
55°	25618.7	25175.6	22417.2	9027.3	2541.7	895.9	591.6	693.8	513.7	362.7	311.6
57.5°	26675.3	26297.9	23697.8	9299.9	2281.2	732.8	521.0	581.9	469.9	323.8	277.5
59°	26799.4	26458.6	23965.6	9209.9	2110.7	669.5	486.9	499.1	457.7	301.9	258.1
60°	26694.7	26341.7	23858.5	9034.6	1952.5	625.7	457.7	443.1	460.1	289.7	243.5
62.5°	26022.8	25419.0	22818.9	8146.0	1706.6	574.6	406.6	362.7	406.6	260.5	216.7
65°	24725.2	23819.5	20761.8	6894.6	1609.2	545.3	345.7	304.3	309.2	228.8	187.5
67.5°	22458.6	21316.8	18022.9	5601.9	1567.8	547.8	292.1	272.7	238.6	194.8	165.5
70°	18875.0	17735.6	14461.2	4608.6	1548.4	547.8	248.3	233.7	199.6	163.1	143.6
72.5°	13375.4	12148.4	9755.2	3620.2	1395.0	545.3	211.8	211.8	163.1	136.3	116.9
75°	7556.8	7566.6	6132.6	2561.1	1158.8	450.4	170.4	168.0	119.3	104.7	87.6
77.5°	4404.1	4326.2	4133.8	1100.4	538.0	204.5	119.3	102.3	82.8	75.5	63.3
80°	2264.1	1862.4	1813.7	399.3	192.3	129.0	82.8	58.4	53.6	48.7	43.8
82.5°	669.5	671.9	598.9	160.7	107.1	85.2	41.4	31.6	29.2	26.8	26.8
85°	46.3	29.2	34.1	48.7	65.7	34.1	2.4	7.3	7.3	9.7	12.2
87.5°	4.9	2.4	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°	10585.4	10585.4	10585.4	10585.4	10585.4	10585.4	10585.4	10585.4	10585.4	10585.4	10585.4
2.5°	8761.9	8869.0	8669.4	8674.3	8508.7	8562.3	8367.5	8430.8	8316.4	8404.0	8662.1
5°	6592.7	6617.1	6456.4	6405.3	6429.6	6529.4	6568.4	6390.7	6466.1	6317.6	6307.9
7.5°	4645.1	4674.3	4581.8	4569.6	4744.9	4703.5	4779.0	4596.4	4423.6	4499.0	4360.3
10°	3608.0	3486.3	3296.4	3242.8	3208.7	3230.6	3230.6	3065.1	3040.7	2975.0	3074.8
12.5°	2848.4	2699.9	2519.7	2276.3	2215.4	2210.6	2120.5	1974.4	1928.2	1872.2	1954.9
15°	2069.4	2008.5	1857.6	1721.2	1582.5	1555.7	1409.6	1290.3	1132.1	1110.2	1102.8
17.5°	1455.9	1365.8	1363.3	1285.4	1205.1	1151.5	1015.2	878.9	818.0	810.7	810.7
20°	1090.7	1059.0	1007.9	998.2	973.8	913.0	791.2	718.2	689.0	691.4	701.1
22.5°	917.8	895.9	849.7	827.7	818.0	764.4	674.4	625.7	611.1	611.1	613.5
25°	820.4	801.0	749.8	715.8	703.6	664.6	594.0	557.5	545.3	545.3	545.3
27.5°	747.4	723.1	669.5	640.3	618.4	574.6	530.7	494.2	482.0	482.0	484.5
30°	696.3	669.5	620.8	581.9	547.8	508.8	472.3	440.7	426.0	423.6	426.0
32.5°	628.1	603.8	555.1	530.7	491.8	445.5	416.3	387.1	372.5	374.9	372.5
35°	489.3	482.0	448.0	455.3	433.3	394.4	367.6	336.0	318.9	316.5	321.4
37.5°	445.5	416.3	377.4	379.8	372.5	357.9	314.1	280.0	267.8	267.8	270.2
40°	411.4	382.2	338.4	316.5	318.9	318.9	272.7	236.2	224.0	221.5	226.4
42.5°	382.2	353.0	304.3	267.8	258.1	270.2	231.3	194.8	182.6	177.7	182.6
45°	362.7	331.1	275.1	233.7	204.5	219.1	189.9	160.7	146.1	146.1	143.6
47.5°	343.3	314.1	253.2	202.1	170.4	163.1	155.8	129.0	114.4	112.0	114.4
50°	326.2	297.0	228.8	175.3	143.6	126.6	126.6	102.3	92.5	87.6	90.1
52.5°	309.2	277.5	206.9	155.8	124.2	102.3	90.1	82.8	75.5	73.0	75.5
55°	284.8	253.2	185.0	133.9	107.1	85.2	70.6	68.2	63.3	58.4	63.3
57.5°	255.6	226.4	163.1	114.4	85.2	65.7	58.4	56.0	51.1	48.7	48.7
59°	238.6	211.8	150.9	99.8	75.5	58.4	53.6	51.1	46.3	41.4	43.8
60°	228.8	206.9	143.6	92.5	68.2	53.6	48.7	46.3	41.4	39.0	41.4
62.5°	202.1	185.0	126.6	75.5	53.6	39.0	34.1	36.5	34.1	31.6	34.1
65°	177.7	163.1	107.1	58.4	41.4	26.8	24.3	31.6	29.2	26.8	29.2
67.5°	158.2	141.2	90.1	43.8	29.2	14.6	17.0	26.8	26.8	24.3	26.8
70°	136.3	121.7	73.0	31.6	14.6	7.3	12.2	19.5	24.3	21.9	24.3
72.5°	112.0	94.9	56.0	21.9	7.3	0.0	7.3	17.0	24.3	21.9	24.3
75°	87.6	70.6	41.4	12.2	0.0	0.0	2.4	14.6	24.3	21.9	24.3
77.5°	63.3	51.1	24.3	2.4	0.0	0.0	2.4	14.6	24.3	21.9	24.3
80°	41.4	36.5	9.7	0.0	0.0	0.0	2.4	14.6	24.3	24.3	26.8
82.5°	26.8	19.5	0.0	0.0	0.0	0.0	4.9	19.5	26.8	29.2	29.2
85°	12.2	0.0	0.0	0.0	0.0	0.0	9.7	24.3	31.6	31.6	31.6
87.5°	0.0	0.0	0.0	0.0	0.0	4.9	17.0	29.2	36.5	36.5	36.5
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°	10585.4	10585.4	10585.4	10585.4	10585.4	10585.4	10585.4	10585.4	10585.4	10585.4	10585.4
2.5°	8705.9	8859.3	9076.0	9409.5	9679.7	10105.8	10432.0	10877.5	11327.9	11464.3	11676.1
5°	6407.7	6604.9	7096.7	7544.6	7827.0	8727.8	9297.5	10195.9	11001.7	11388.8	11810.0
7.5°	4450.3	4684.1	5059.0	5684.7	6278.7	7011.5	7931.7	8959.1	10139.9	10692.5	11286.5
10°	3123.5	3415.7	3944.0	4457.6	5205.0	5901.3	6809.4	7943.9	9246.4	9898.8	10643.8
12.5°	1972.0	2232.5	2931.2	3508.2	4440.6	5248.9	6086.4	7113.7	8623.1	9292.6	10074.1
15°	1127.2	1346.3	1672.5	2412.6	3447.3	4516.1	5560.5	6753.4	8304.2	9129.5	9974.3
17.5°	839.9	898.3	1044.4	1463.2	2405.3	3654.2	5076.0	6643.9	8520.9	9489.8	10453.9
20°	706.0	745.0	813.1	978.7	1533.8	2814.3	4603.7	6663.3	9222.0	10439.3	11354.7
22.5°	633.0	657.3	713.3	820.4	1046.9	2049.9	4051.1	6777.8	10071.7	11605.5	12662.0
25°	555.1	586.7	635.4	727.9	871.6	1421.8	3505.7	7033.4	11262.2	13085.7	14078.9
27.5°	494.2	523.4	572.1	657.3	764.4	1085.8	2870.3	7252.5	12518.4	14575.6	15388.7
30°	433.3	462.6	511.3	579.4	676.8	878.9	2186.2	7381.5	13738.1	15693.0	16318.7
32.5°	382.2	406.6	452.8	513.7	594.0	745.0	1723.7	7247.6	14670.5	16708.3	17127.0
35°	331.1	360.3	399.3	455.3	525.9	635.4	1433.9	6785.1	15471.5	17752.7	17903.6
37.5°	277.5	311.6	353.0	404.1	460.1	584.3	1151.5	6273.8	16328.5	19055.1	18806.8
40°	233.7	265.4	304.3	360.3	411.4	535.6	886.2	5728.5	17253.6	20277.3	19792.8
42.5°	189.9	224.0	270.2	321.4	406.6	467.4	686.5	5163.7	18083.8	21341.2	20683.9
45°	150.9	180.2	228.8	294.6	404.1	401.7	530.7	4606.2	18709.4	22100.8	21348.5
47.5°	119.3	143.6	192.3	287.3	372.5	340.8	426.0	4260.4	19366.8	22784.9	21857.3
50°	94.9	119.3	165.5	299.4	326.2	292.1	357.9	4316.4	20002.2	23133.0	22066.7
52.5°	80.3	104.7	143.6	236.2	250.8	255.6	314.1	4574.5	20822.6	23505.5	22483.0
55°	70.6	92.5	121.7	165.5	194.8	228.8	287.3	4762.0	21920.6	24304.0	23400.8
57.5°	56.0	80.3	109.6	141.2	160.7	199.6	265.4	4776.6	22913.9	25329.0	24620.5
59°	51.1	73.0	102.3	133.9	143.6	180.2	250.8	4652.4	22950.4	25482.3	25180.5
60°	46.3	70.6	97.4	124.2	136.3	170.4	238.6	4508.8	22619.3	25238.9	25411.7
62.5°	39.0	60.9	85.2	99.8	116.9	141.2	206.9	3987.8	21015.0	24136.0	24983.3
65°	34.1	53.6	73.0	82.8	97.4	121.7	182.6	3191.7	19242.6	22641.2	23756.2
67.5°	31.6	48.7	63.3	70.6	85.2	112.0	163.1	2254.4	16946.8	20744.7	21913.3
70°	29.2	46.3	56.0	65.7	75.5	94.9	138.8	1314.7	13054.0	17419.1	18653.4
72.5°	29.2	43.8	48.7	56.0	65.7	85.2	129.0	710.9	8925.0	13287.7	14882.3
75°	29.2	41.4	43.8	48.7	58.4	77.9	114.4	372.5	5769.9	9231.8	11393.6
77.5°	29.2	39.0	43.8	46.3	56.0	68.2	99.8	233.7	3844.1	6466.1	7700.5
80°	31.6	39.0	41.4	46.3	53.6	63.3	82.8	155.8	2259.3	3890.4	4686.5
82.5°	34.1	39.0	43.8	48.7	56.0	60.9	73.0	97.4	1042.0	2573.3	2911.7
85°	36.5	41.4	46.3	51.1	58.4	60.9	68.2	70.6	170.4	1161.3	1570.3
87.5°	39.0	43.8	48.7	53.6	63.3	63.3	63.3	63.3	58.4	124.2	316.5
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: P456265

CATALOG NUMBER: GALN-SA7C-730-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10585.4	10585.4	10585.4	10585.4	10585.4	10585.4	10585.4	10585.4	10585.4	10585.4
2.5°	11943.9	12219.0	12411.3	12460.0	12321.2	12257.9	12082.6	11810.0	11644.4	11637.1
5°	12586.6	13231.7	13679.7	13755.2	13487.4	13034.5	12496.5	11802.7	11396.1	11274.4
7.5°	12477.0	13606.6	14327.3	14432.0	13981.6	13117.3	12075.3	10957.9	10514.8	10327.3
10°	12026.6	13404.6	14434.4	14599.9	13998.6	12781.3	11456.9	10210.5	9660.3	9516.6
12.5°	11642.0	13034.5	13949.9	14178.8	13723.5	12508.7	11086.9	9730.9	9141.7	9007.8
15°	11474.0	12596.3	13156.3	13273.1	13197.6	12338.3	11047.9	9657.8	8983.5	8837.4
17.5°	11642.0	12223.8	12294.4	12413.7	12581.7	12321.2	11422.9	10054.7	9326.7	9146.6
20°	12082.6	11900.0	11607.9	11659.0	12043.7	12391.8	12089.9	10933.5	10047.3	9855.0
22.5°	12832.5	11819.7	11157.5	11113.7	11600.6	12628.0	13068.6	12124.0	11096.6	10906.7
25°	13752.7	12021.8	10991.9	10897.0	11427.7	12973.7	14132.5	13582.3	12460.0	12170.3
27.5°	14755.7	12440.5	10991.9	10899.4	11413.1	13280.4	15043.0	14872.6	13872.0	13555.5
30°	15306.0	12786.2	11150.2	11045.5	11593.3	13458.1	15529.9	16019.3	14933.5	14541.5
32.5°	15797.7	13265.8	11459.4	11262.2	11970.6	13721.1	15965.7	16993.1	15778.3	15515.3
35°	16250.6	13779.5	11885.4	11656.6	12467.3	14081.4	16447.8	18015.6	16954.1	16557.3
37.5°	16749.6	14376.0	12550.1	12355.3	13297.5	14782.5	17019.9	19359.5	18110.5	17611.5
40°	17292.5	15067.4	13643.2	13560.4	14617.0	15576.2	17742.9	20793.4	19430.1	18862.8
42.5°	17845.2	15863.5	14982.2	15118.5	16111.8	16688.8	18485.5	21896.3	20511.0	19885.3
45°	18346.7	16881.1	16722.9	17397.2	17854.9	17774.6	19035.7	22672.9	21453.2	20854.3
47.5°	18979.7	18363.7	18828.7	19868.3	19880.5	18955.3	19452.0	23308.3	22263.9	21665.0
50°	19688.1	20114.2	21548.1	22607.1	22322.3	20116.6	19938.9	24060.6	23101.4	22621.7
52.5°	20508.6	22074.0	24060.6	25236.4	24571.8	21382.6	20749.6	24873.7	24430.6	23970.5
55°	21462.9	23410.5	26565.7	27503.0	26833.5	22955.3	21981.5	25976.5	25932.7	25618.7
57.5°	22541.4	24822.6	28016.7	29285.1	28688.6	24800.7	23702.7	27016.1	26850.5	26675.3
59°	23393.5	25548.1	28657.0	29971.6	29611.3	26093.4	24859.1	27663.7	27062.4	26799.4
60°	23909.6	26039.8	28893.1	30064.1	29981.4	26862.7	25591.9	27980.2	27059.9	26694.7
62.5°	25440.9	26899.2	28803.0	29652.7	29976.5	28338.0	27741.6	28328.3	26558.4	26022.8
65°	25986.3	26614.4	27310.7	27206.0	27483.5	28262.6	29114.7	27946.1	25487.2	24725.2
67.5°	24924.8	23490.9	23736.8	23038.1	22901.7	25126.9	28557.2	26076.4	23391.1	22458.6
70°	21010.1	17996.1	17872.0	18193.3	17312.0	20343.0	25643.0	22475.7	19931.6	18875.0
72.5°	16537.8	12718.0	11671.2	12854.4	12827.6	15520.2	21302.2	15948.7	13465.4	13375.4
75°	13005.3	8854.4	7771.1	7963.4	8333.4	11235.4	16966.3	10127.7	8292.0	7556.8
77.5°	8730.3	6273.8	5852.6	5616.5	6015.7	7213.5	10733.9	5492.3	4650.0	4404.1
80°	5032.2	4557.5	5175.8	4698.7	4912.9	4545.3	5338.9	2519.7	2091.3	2264.1
82.5°	3274.5	2595.2	2765.6	2054.8	2809.5	2833.8	1713.9	745.0	630.5	669.5
85°	2047.4	1217.3	684.1	486.9	968.9	1782.1	535.6	46.3	53.6	46.3
87.5°	530.7	202.1	85.2	126.6	155.8	138.8	124.2	7.3	2.4	4.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)