

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: P456033

Luminaire Tested: **GALN-SA7B-730-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456033
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-SA7B-730-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 800mA 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: 25921 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

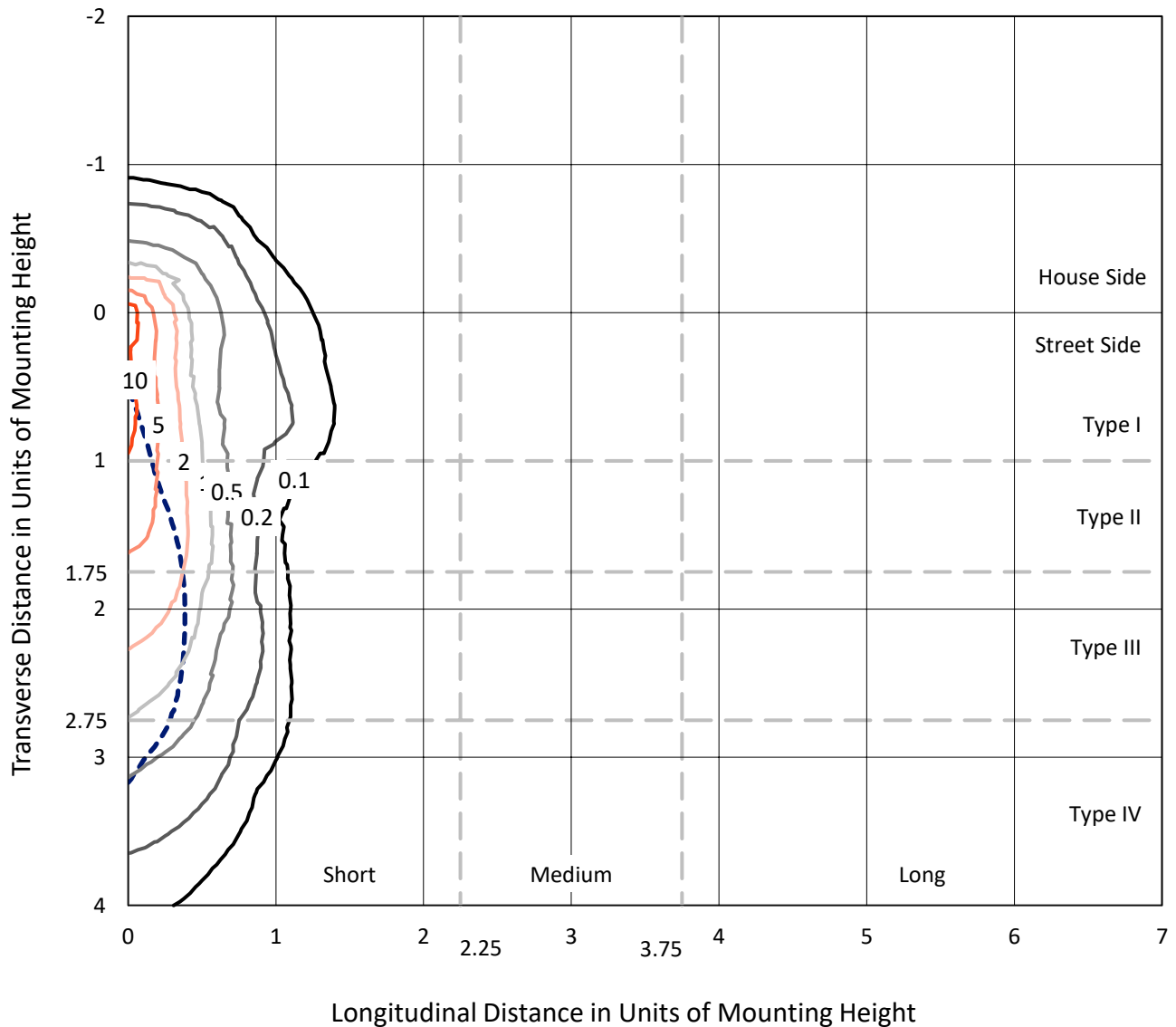
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

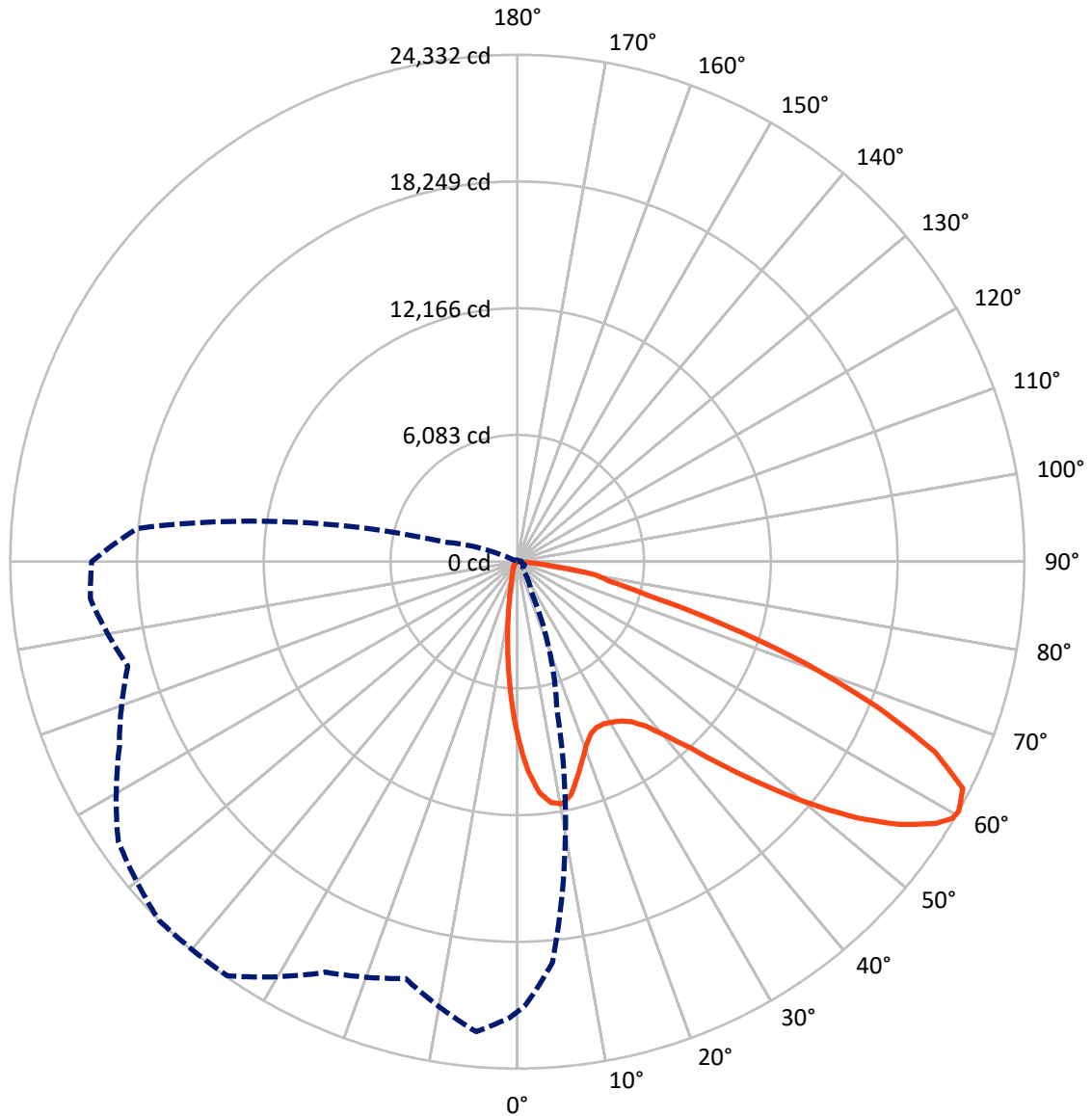
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 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	3197.1	0.0	3197.1
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	22723.9	0.0	22723.9
	% Fixture	87.7	0.0	87.7
Total	Lumens	25921.0	0.0	25921.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	637.2	2.5
10°-20°	1265.5	4.9
20°-30°	1855.6	7.2
30°-40°	2759.5	10.6
40°-50°	4016.0	15.5
50°-60°	5791.4	22.3
60°-70°	6369.9	24.6
70°-80°	2853.2	11.0
80°-90°	372.8	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°	25921.0	100.0
0°-180°	25921.0	100.0

Coefficient of Utilization



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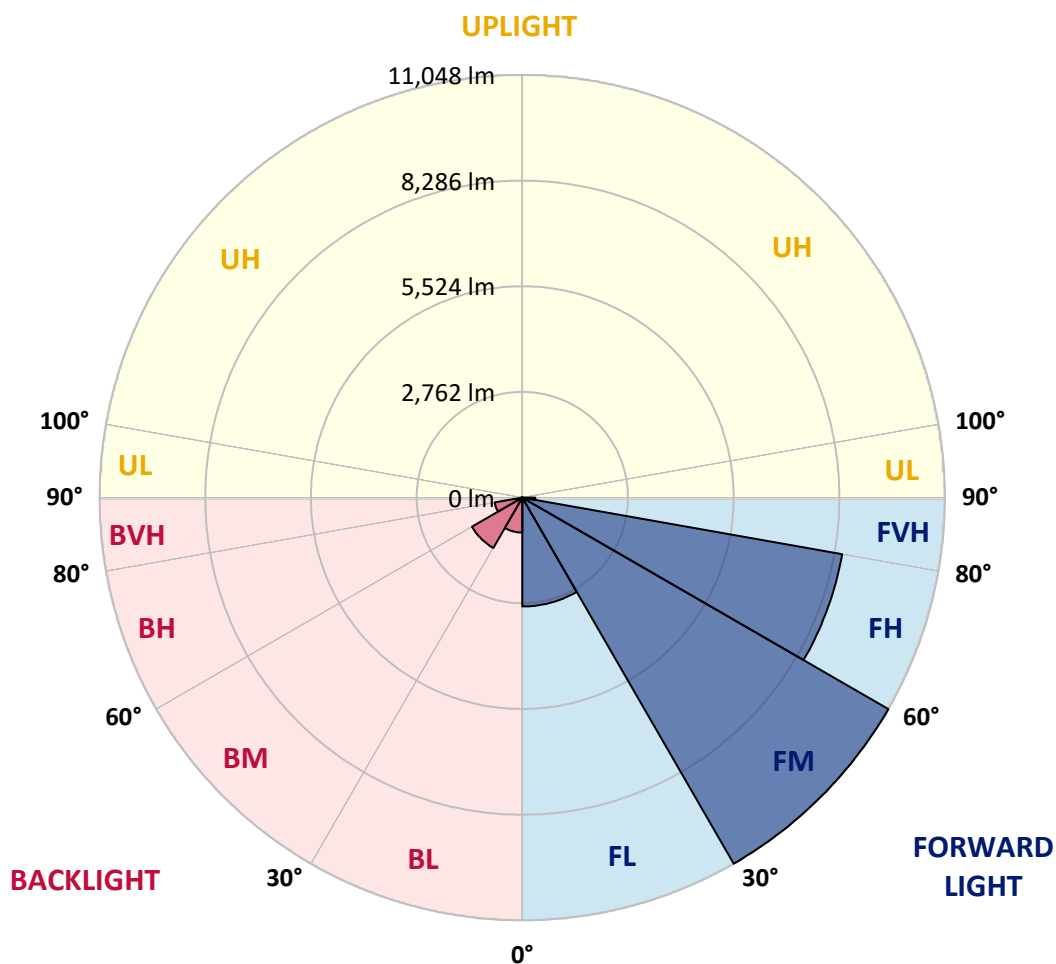
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2844.7	11.0			
FM	(30°-60°)	11048.3	42.6			
FH	(60°-80°)	8489.9	32.8			G4/12000
FVH	(80°-90°)	340.9	1.3			G3/500
BL	(0°-30°)	913.5	3.5	B2/1000		
BM	(30°-60°)	1518.5	5.9	B2/2500		
BH	(60°-80°)	733.2	2.8	B2/1000		G2/1000
BVH	(80°-90°)	31.9	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8567.3	8567.3	8567.3	8567.3	8567.3	8567.3	8567.3	8567.3	8567.3	8567.3	8567.3
2.5°	9418.5	9377.1	9282.5	8994.8	8744.6	8417.5	8086.5	7826.4	7666.8	7373.2	7239.2
5°	9124.9	9144.6	8870.7	8279.6	7621.5	7172.2	6681.6	6291.5	5861.9	5590.0	5304.3
7.5°	8358.4	8319.0	8021.5	7197.8	6397.9	5747.6	5127.0	4622.5	4305.3	4051.1	3838.3
10°	7702.3	7672.7	7292.4	6232.3	5373.3	4886.6	4466.9	4025.5	3684.6	3312.2	3014.7
12.5°	7290.4	7223.5	6786.0	5678.7	4979.2	4526.0	4068.9	3609.8	3138.8	2762.5	2401.9
15°	7152.5	7056.0	6569.3	5487.5	4727.0	4151.6	3578.2	3050.2	2508.3	2092.6	1820.6
17.5°	7402.8	7243.2	6724.9	5454.0	4425.5	3663.0	2957.6	2269.9	1706.4	1389.1	1221.6
20°	7976.1	7792.9	7119.0	5420.5	4090.5	3115.2	2248.2	1603.9	1180.3	1006.9	914.3
22.5°	8827.4	8575.1	7702.3	5473.7	3781.2	2581.2	1623.6	1133.0	937.9	829.5	764.5
25°	9850.0	9639.2	8441.2	5662.9	3536.9	2161.5	1255.1	926.1	790.1	723.1	673.9
27.5°	10971.1	10634.2	9396.8	5889.5	3314.2	1836.4	1101.4	827.6	703.4	642.3	616.7
30°	11769.1	11507.1	10196.8	6047.1	3036.4	1592.1	1006.9	815.7	705.4	632.5	585.2
32.5°	12557.3	12222.3	10866.7	6120.0	2833.4	1422.6	870.9	711.3	618.7	581.3	534.0
35°	13400.6	13049.9	11534.7	6080.6	2681.7	1310.3	790.1	634.5	530.0	467.0	419.7
37.5°	14253.8	13883.4	12198.7	5938.8	2587.1	1265.0	727.1	602.9	500.5	435.5	384.2
40°	15266.6	14772.0	12821.3	5822.5	2488.6	1241.3	685.7	583.2	478.8	409.8	358.6
42.5°	16094.2	15623.2	13410.5	5761.4	2421.6	1186.2	685.7	567.5	465.0	388.2	335.0
45°	16878.4	16389.7	14046.9	5810.7	2394.0	1117.2	693.6	565.5	455.2	372.4	319.2
47.5°	17534.5	17110.9	14701.1	5995.9	2358.6	1042.3	652.2	593.1	449.2	358.6	303.4
50°	18308.9	17899.0	15566.1	6370.3	2295.5	967.5	601.0	638.4	447.3	346.8	289.6
52.5°	19400.5	18957.1	16760.1	6795.9	2195.0	853.2	553.7	632.5	439.4	327.1	275.9
55°	20734.4	20375.8	18143.4	7306.2	2057.1	725.1	478.8	561.6	415.8	293.6	252.2
57.5°	21589.6	21284.2	19179.8	7526.9	1846.3	593.1	421.7	470.9	380.3	262.1	224.6
59°	21690.1	21414.2	19396.5	7454.0	1708.3	541.9	394.1	403.9	370.4	244.3	208.9
60°	21605.3	21319.6	19309.8	7312.1	1580.3	506.4	370.4	358.6	372.4	234.5	197.0
62.5°	21061.5	20572.9	18468.5	6592.9	1381.2	465.0	329.1	293.6	329.1	210.8	175.4
65°	20011.3	19278.3	16803.5	5580.1	1302.4	441.4	279.8	246.3	250.2	185.2	151.7
67.5°	18176.9	17252.7	14586.8	4533.9	1268.9	443.3	236.4	220.7	193.1	157.6	134.0
70°	15276.4	14354.3	11704.1	3730.0	1253.2	443.3	201.0	189.2	161.6	132.0	116.3
72.5°	10825.3	9832.3	7895.4	2930.0	1129.0	441.4	171.4	171.4	132.0	110.3	94.6
75°	6116.1	6124.0	4963.4	2072.9	937.9	364.5	137.9	136.0	96.5	84.7	70.9
77.5°	3564.4	3501.4	3345.7	890.6	435.5	165.5	96.5	82.8	67.0	61.1	51.2
80°	1832.5	1507.3	1467.9	323.1	155.7	104.4	67.0	47.3	43.3	39.4	35.5
82.5°	541.9	543.8	484.7	130.0	86.7	69.0	33.5	25.6	23.6	21.7	21.7
85°	37.4	23.6	27.6	39.4	53.2	27.6	2.0	5.9	5.9	7.9	9.9
87.5°	3.9	2.0	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°	8567.3	8567.3	8567.3	8567.3	8567.3	8567.3	8567.3	8567.3	8567.3	8567.3	8567.3
2.5°	7091.4	7178.1	7016.6	7020.5	6886.5	6929.9	6772.2	6823.5	6730.9	6801.8	7010.7
5°	5335.8	5355.5	5225.5	5184.1	5203.8	5284.6	5316.1	5172.3	5233.4	5113.2	5105.3
7.5°	3759.5	3783.2	3708.3	3698.4	3840.3	3806.8	3867.9	3720.1	3580.2	3641.3	3529.0
10°	2920.1	2821.6	2667.9	2624.6	2597.0	2614.7	2614.7	2480.7	2461.0	2407.8	2488.6
12.5°	2305.4	2185.2	2039.4	1842.3	1793.1	1789.1	1716.2	1598.0	1560.5	1515.2	1582.2
15°	1674.8	1625.6	1503.4	1393.1	1280.8	1259.1	1140.9	1044.3	916.2	898.5	892.6
17.5°	1178.3	1105.4	1103.4	1040.4	975.3	932.0	821.7	711.3	662.1	656.1	656.1
20°	882.7	857.1	815.7	807.9	788.2	738.9	640.4	581.3	557.6	559.6	567.5
22.5°	742.8	725.1	687.7	669.9	662.1	618.7	545.8	506.4	494.6	494.6	496.5
25°	664.0	648.3	606.9	579.3	569.4	537.9	480.8	451.2	441.4	441.4	441.4
27.5°	604.9	585.2	541.9	518.2	500.5	465.0	429.5	400.0	390.1	390.1	392.1
30°	563.5	541.9	502.4	470.9	443.3	411.8	382.3	356.6	344.8	342.8	344.8
32.5°	508.4	488.7	449.2	429.5	398.0	360.6	336.9	313.3	301.5	303.4	301.5
35°	396.0	390.1	362.6	368.5	350.7	319.2	297.5	271.9	258.1	256.2	260.1
37.5°	360.6	336.9	305.4	307.4	301.5	289.6	254.2	226.6	216.7	216.7	218.7
40°	333.0	309.4	273.9	256.2	258.1	258.1	220.7	191.1	181.3	179.3	183.2
42.5°	309.4	285.7	246.3	216.7	208.9	218.7	187.2	157.6	147.8	143.8	147.8
45°	293.6	268.0	222.7	189.2	165.5	177.3	153.7	130.0	118.2	118.2	116.3
47.5°	277.8	254.2	204.9	163.5	137.9	132.0	126.1	104.4	92.6	90.6	92.6
50°	264.0	240.4	185.2	141.9	116.3	102.5	102.5	82.8	74.9	70.9	72.9
52.5°	250.2	224.6	167.5	126.1	100.5	82.8	72.9	67.0	61.1	59.1	61.1
55°	230.5	204.9	149.7	108.4	86.7	69.0	57.1	55.2	51.2	47.3	51.2
57.5°	206.9	183.2	132.0	92.6	69.0	53.2	47.3	45.3	41.4	39.4	39.4
59°	193.1	171.4	122.2	80.8	61.1	47.3	43.3	41.4	37.4	33.5	35.5
60°	185.2	167.5	116.3	74.9	55.2	43.3	39.4	37.4	33.5	31.5	33.5
62.5°	163.5	149.7	102.5	61.1	43.3	31.5	27.6	29.6	27.6	25.6	27.6
65°	143.8	132.0	86.7	47.3	33.5	21.7	19.7	25.6	23.6	21.7	23.6
67.5°	128.1	114.3	72.9	35.5	23.6	11.8	13.8	21.7	21.7	19.7	21.7
70°	110.3	98.5	59.1	25.6	11.8	5.9	9.9	15.8	19.7	17.7	19.7
72.5°	90.6	76.8	45.3	17.7	5.9	0.0	5.9	13.8	19.7	17.7	19.7
75°	70.9	57.1	33.5	9.9	0.0	0.0	2.0	11.8	19.7	17.7	19.7
77.5°	51.2	41.4	19.7	2.0	0.0	0.0	2.0	11.8	19.7	17.7	19.7
80°	33.5	29.6	7.9	0.0	0.0	0.0	2.0	11.8	19.7	19.7	21.7
82.5°	21.7	15.8	0.0	0.0	0.0	0.0	3.9	15.8	21.7	23.6	23.6
85°	9.9	0.0	0.0	0.0	0.0	0.0	7.9	19.7	25.6	25.6	25.6
87.5°	0.0	0.0	0.0	0.0	0.0	3.9	13.8	23.6	29.6	29.6	29.6
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°	8567.3	8567.3	8567.3	8567.3	8567.3	8567.3	8567.3	8567.3	8567.3	8567.3	8567.3
2.5°	7046.1	7170.3	7345.6	7615.6	7834.3	8179.1	8443.1	8803.7	9168.2	9278.6	9450.0
5°	5186.1	5345.7	5743.7	6106.2	6334.8	7063.9	7524.9	8252.0	8904.2	9217.5	9558.4
7.5°	3601.9	3791.0	4094.5	4600.9	5081.6	5674.7	6419.5	7251.0	8206.7	8654.0	9134.7
10°	2528.0	2764.5	3192.0	3607.8	4212.7	4776.2	5511.2	6429.4	7483.5	8011.6	8614.6
12.5°	1596.0	1806.8	2372.4	2839.3	3594.0	4248.2	4926.0	5757.5	6979.1	7521.0	8153.5
15°	912.3	1089.6	1353.7	1952.7	2790.1	3655.1	4500.4	5465.9	6721.0	7389.0	8072.7
17.5°	679.8	727.1	845.3	1184.2	1946.7	2957.6	4108.3	5377.2	6896.4	7680.6	8460.9
20°	571.4	602.9	658.1	792.1	1241.3	2277.8	3726.0	5393.0	7463.8	8449.0	9189.9
22.5°	512.3	532.0	577.3	664.0	847.3	1659.1	3278.7	5485.6	8151.5	9392.9	10248.0
25°	449.2	474.9	514.3	589.1	705.4	1150.7	2837.4	5692.5	9115.0	10590.9	11394.8
27.5°	400.0	423.6	463.0	532.0	618.7	878.8	2323.1	5869.8	10131.8	11796.7	12454.8
30°	350.7	374.4	413.8	469.0	547.8	711.3	1769.4	5974.2	11118.9	12701.1	13207.5
32.5°	309.4	329.1	366.5	415.8	480.8	602.9	1395.0	5865.9	11873.6	13522.8	13861.7
35°	268.0	291.6	323.1	368.5	425.6	514.3	1160.6	5491.5	12521.8	14368.1	14490.3
37.5°	224.6	252.2	285.7	327.1	372.4	472.9	932.0	5077.7	13215.4	15422.3	15221.3
40°	189.2	214.8	246.3	291.6	333.0	433.5	717.2	4636.3	13964.2	16411.4	16019.3
42.5°	153.7	181.3	218.7	260.1	329.1	378.3	555.7	4179.2	14636.1	17272.4	16740.4
45°	122.2	145.8	185.2	238.4	327.1	325.1	429.5	3728.0	15142.5	17887.2	17278.4
47.5°	96.5	116.3	155.7	232.5	301.5	275.9	344.8	3448.2	15674.5	18440.9	17690.2
50°	76.8	96.5	134.0	242.4	264.0	236.4	289.6	3493.5	16188.7	18722.7	17859.6
52.5°	65.0	84.7	116.3	191.1	203.0	206.9	254.2	3702.4	16852.8	19024.1	18196.6
55°	57.1	74.9	98.5	134.0	157.6	185.2	232.5	3854.1	17741.4	19670.4	18939.4
57.5°	45.3	65.0	88.7	114.3	130.0	161.6	214.8	3865.9	18545.3	20500.0	19926.6
59°	41.4	59.1	82.8	108.4	116.3	145.8	203.0	3765.4	18574.9	20624.1	20379.8
60°	37.4	57.1	78.8	100.5	110.3	137.9	193.1	3649.2	18306.9	20427.0	20566.9
62.5°	31.5	49.3	69.0	80.8	94.6	114.3	167.5	3227.5	17008.4	19534.5	20220.2
65°	27.6	43.3	59.1	67.0	78.8	98.5	147.8	2583.2	15574.0	18324.6	19227.1
67.5°	25.6	39.4	51.2	57.1	69.0	90.6	132.0	1824.6	13715.9	16789.7	17735.5
70°	23.6	37.4	45.3	53.2	61.1	76.8	112.3	1064.0	10565.2	14098.1	15097.1
72.5°	23.6	35.5	39.4	45.3	53.2	69.0	104.4	575.4	7223.5	10754.4	12045.0
75°	23.6	33.5	35.5	39.4	47.3	63.1	92.6	301.5	4669.8	7471.7	9221.4
77.5°	23.6	31.5	35.5	37.4	45.3	55.2	80.8	189.2	3111.2	5233.4	6232.3
80°	25.6	31.5	33.5	37.4	43.3	51.2	67.0	126.1	1828.5	3148.7	3793.0
82.5°	27.6	31.5	35.5	39.4	45.3	49.3	59.1	78.8	843.3	2082.7	2356.6
85°	29.6	33.5	37.4	41.4	47.3	49.3	55.2	57.1	137.9	939.9	1270.9
87.5°	31.5	35.5	39.4	43.3	51.2	51.2	51.2	51.2	47.3	100.5	256.2
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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CATALOG NUMBER: GALN-SA7B-730-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8567.3	8567.3	8567.3	8567.3	8567.3	8567.3	8567.3	8567.3	8567.3	8567.3
2.5°	9666.7	9889.4	10045.1	10084.5	9972.1	9920.9	9779.1	9558.4	9424.4	9418.5
5°	10186.9	10709.1	11071.6	11132.7	10916.0	10549.5	10114.0	9552.5	9223.4	9124.9
7.5°	10098.3	11012.5	11595.8	11680.5	11316.0	10616.5	9773.1	8868.7	8510.1	8358.4
10°	9733.7	10849.0	11682.4	11816.4	11329.7	10344.6	9272.7	8263.8	7818.5	7702.3
12.5°	9422.4	10549.5	11290.3	11475.6	11107.1	10123.9	8973.2	7875.7	7398.8	7290.4
15°	9286.5	10194.8	10648.0	10742.6	10681.5	9985.9	8941.6	7816.5	7270.7	7152.5
17.5°	9422.4	9893.3	9950.5	10047.0	10183.0	9972.1	9245.1	8137.7	7548.6	7402.8
20°	9779.1	9631.3	9394.8	9436.2	9747.5	10029.3	9785.0	8849.0	8131.8	7976.1
22.5°	10385.9	9566.2	9030.3	8994.8	9388.9	10220.4	10577.1	9812.5	8981.0	8827.4
25°	11130.7	9729.8	8896.3	8819.5	9249.0	10500.2	11438.1	10992.8	10084.5	9850.0
27.5°	11942.5	10068.7	8896.3	8821.4	9237.2	10748.5	12175.0	12037.1	11227.3	10971.1
30°	12387.8	10348.5	9024.4	8939.7	9383.0	10892.3	12569.1	12965.2	12086.4	11769.1
32.5°	12785.9	10736.7	9274.6	9115.0	9688.4	11105.1	12921.8	13753.3	12770.1	12557.3
35°	13152.4	11152.4	9619.4	9434.2	10090.4	11396.7	13312.0	14580.9	13721.8	13400.6
37.5°	13556.3	11635.2	10157.4	9999.7	10762.3	11964.2	13775.0	15668.6	14657.7	14253.8
40°	13995.7	12194.8	11042.1	10975.1	11830.2	12606.6	14360.2	16829.1	15725.7	15266.6
42.5°	14443.0	12839.1	12125.8	12236.1	13040.0	13507.0	14961.2	17721.7	16600.5	16094.2
45°	14848.9	13662.7	13534.6	14080.4	14450.8	14385.8	15406.5	18350.3	17363.1	16878.4
47.5°	15361.2	14862.7	15239.0	16080.4	16090.2	15341.5	15743.4	18864.5	18019.2	17534.5
50°	15934.6	16279.4	17439.9	18297.1	18066.5	16281.3	16137.5	19473.4	18697.0	18308.9
52.5°	16598.6	17865.5	19473.4	20425.1	19887.2	17305.9	16793.6	20131.5	19772.9	19400.5
55°	17371.0	18947.3	21500.9	22259.5	21717.7	18578.8	17790.7	21024.1	20988.6	20734.4
57.5°	18243.9	20090.1	22675.3	23701.8	23219.1	20072.4	19183.7	21865.4	21731.4	21589.6
59°	18933.5	20677.3	23193.5	24257.5	23965.9	21118.7	20119.7	22389.6	21902.9	21690.1
60°	19351.2	21075.3	23384.6	24332.4	24265.4	21741.3	20712.8	22645.7	21900.9	21605.3
62.5°	20590.6	21770.9	23311.7	23999.4	24261.4	22935.4	22452.6	22927.5	21495.0	21061.5
65°	21032.0	21540.3	22103.8	22019.1	22243.7	22874.3	23563.9	22618.1	20628.0	20011.3
67.5°	20172.9	19012.3	19211.3	18645.8	18535.5	20336.4	23112.7	21104.9	18931.5	18176.9
70°	17004.5	14565.1	14464.6	14724.7	14011.5	16464.6	20754.1	18190.7	16131.6	15276.4
72.5°	13384.9	10293.3	9446.1	10403.7	10382.0	12561.2	17240.9	12908.0	10898.2	10825.3
75°	10525.8	7166.3	6289.5	6445.1	6744.6	9093.4	13731.7	8196.8	6711.2	6116.1
77.5°	7065.8	5077.7	4736.8	4545.7	4868.8	5838.3	8687.5	4445.2	3763.4	3564.4
80°	4072.8	3688.6	4189.1	3802.9	3976.2	3678.7	4321.1	2039.4	1692.6	1832.5
82.5°	2650.2	2100.4	2238.4	1663.0	2273.8	2293.5	1387.2	602.9	510.3	541.9
85°	1657.1	985.2	553.7	394.1	784.2	1442.3	433.5	37.4	43.3	37.4
87.5°	429.5	163.5	69.0	102.5	126.1	112.3	100.5	5.9	2.0	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)