

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: P457425

Luminaire Tested: **GALN-SA8D-730-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457425
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-SA8D-730-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 40856 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

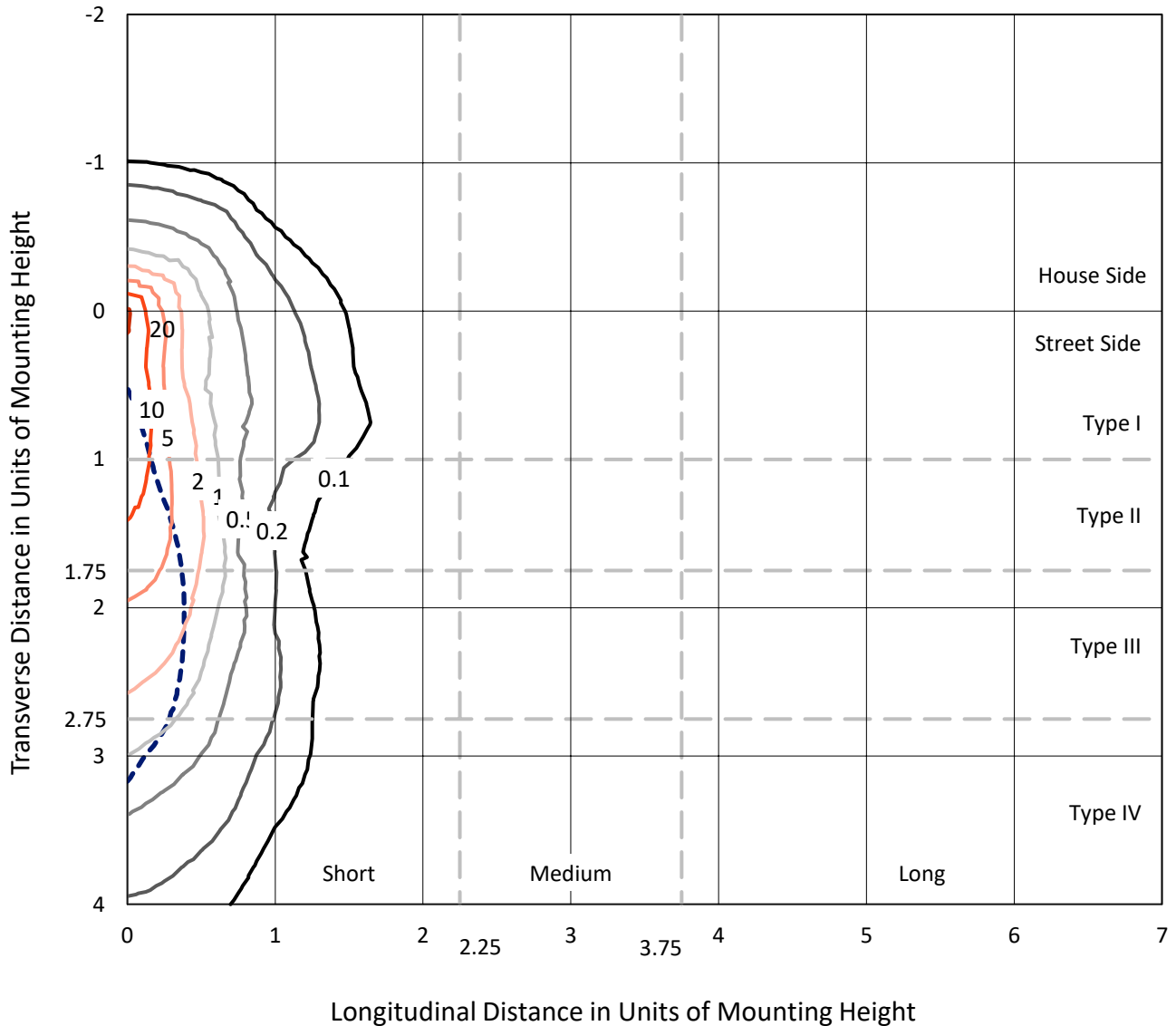
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

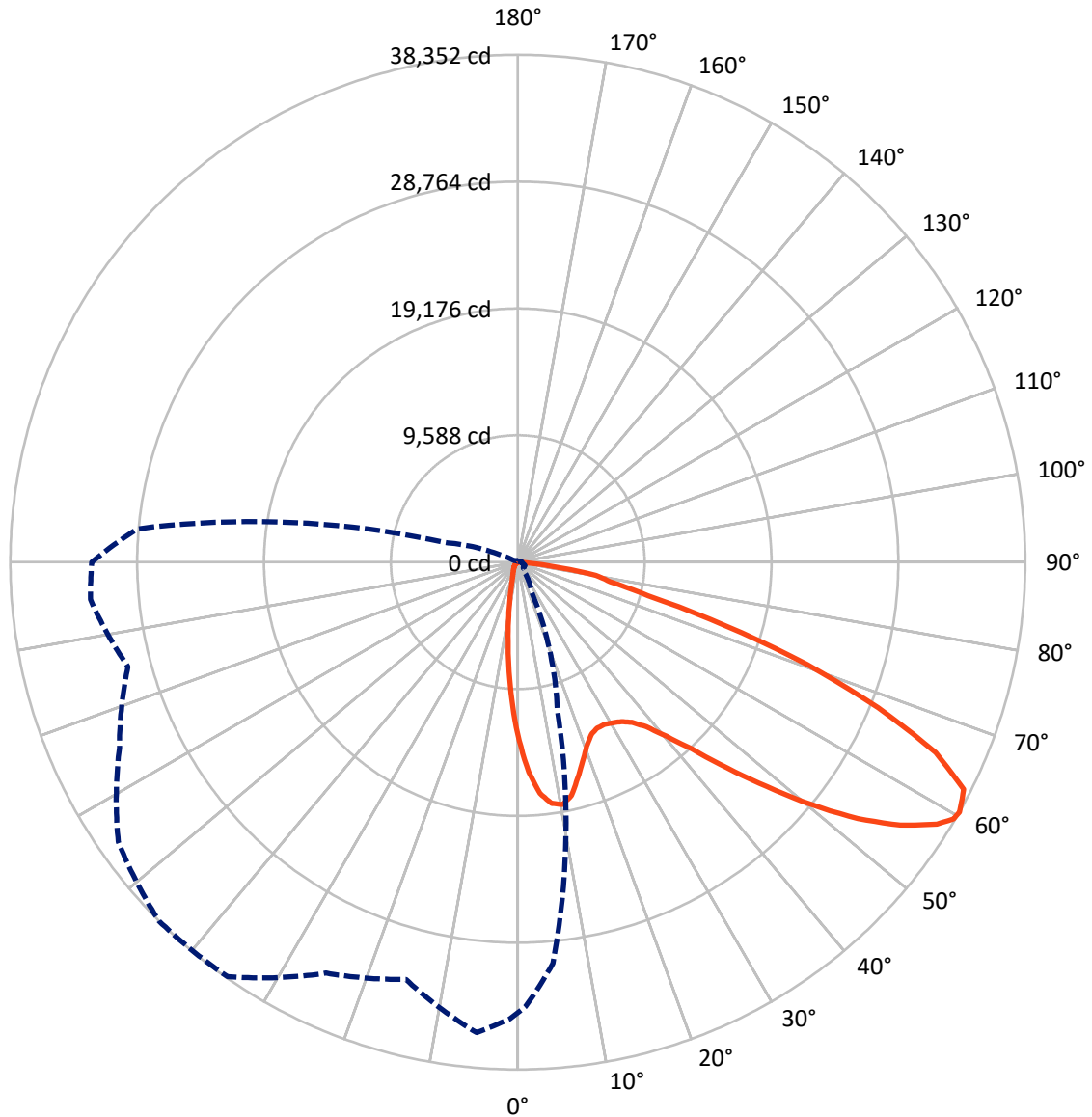
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.6 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	5039.2	0.0	5039.2
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	35816.8	0.0	35816.8
	% Fixture	87.7	0.0	87.7
Total	Lumens	40856.0	0.0	40856.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1004.3	2.5
10°-20°	1994.6	4.9
20°-30°	2924.7	7.2
30°-40°	4349.5	10.6
40°-50°	6329.9	15.5
50°-60°	9128.2	22.3
60°-70°	10040.0	24.6
70°-80°	4497.1	11.0
80°-90°	587.6	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°	40856.0	100.0
0°-180°	40856.0	100.0



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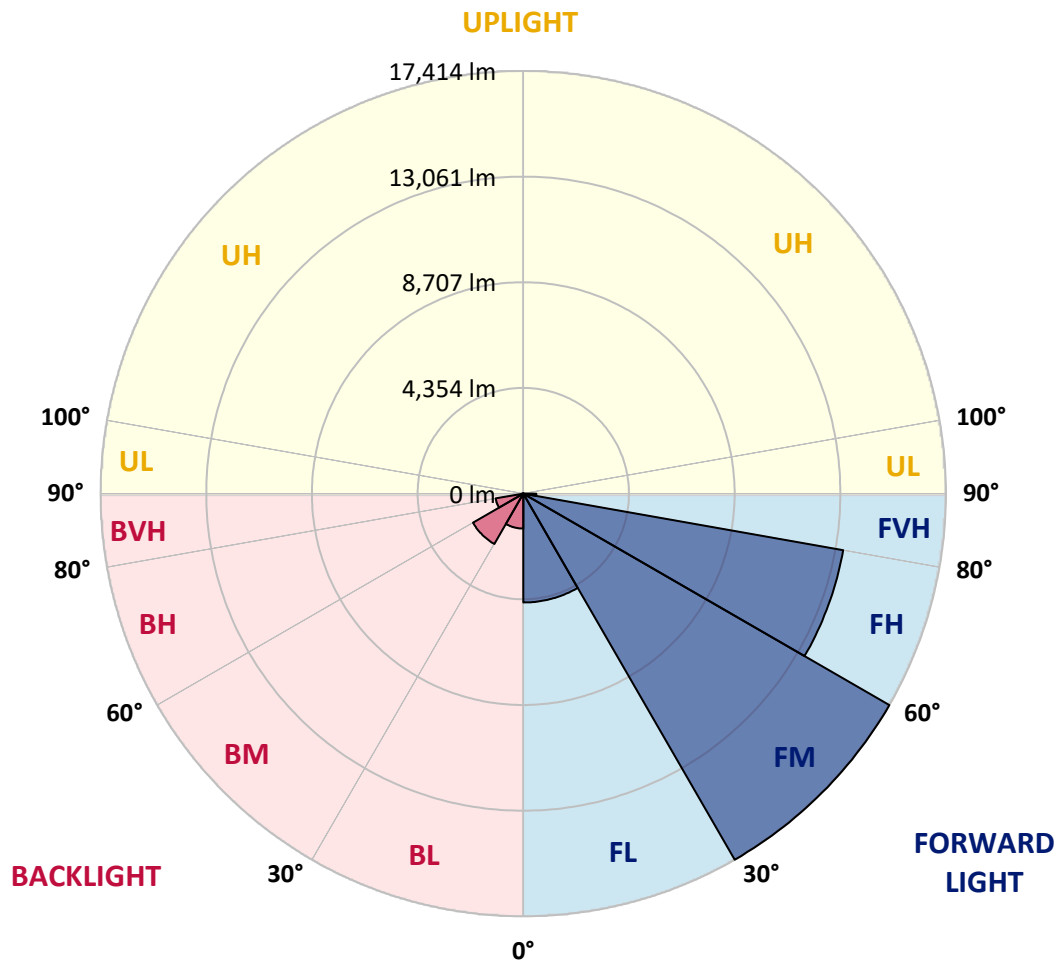
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4483.8	11.0			
FM	(30°-60°)	17414.1	42.6			
FH	(60°-80°)	13381.5	32.8			G5
FVH	(80°-90°)	537.4	1.3			G4/750
BL	(0°-30°)	1439.9	3.5	B3/2500		
BM	(30°-60°)	2393.5	5.9	B2/2500		
BH	(60°-80°)	1155.6	2.8	B3/2500		G3/2500
BVH	(80°-90°)	50.2	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13503.5	13503.5	13503.5	13503.5	13503.5	13503.5	13503.5	13503.5	13503.5	13503.5	13503.5
2.5°	14845.1	14779.9	14630.9	14177.4	13783.0	13267.5	12745.7	12335.8	12084.2	11621.5	11410.3
5°	14382.4	14413.5	13981.8	13050.1	12012.8	11304.7	10531.4	9916.4	9239.4	8810.8	8360.5
7.5°	13174.3	13112.2	12643.2	11345.0	10084.1	9059.3	8081.0	7285.9	6785.9	6385.3	6049.9
10°	12140.1	12093.5	11494.1	9823.3	8469.2	7702.1	7040.6	6344.9	5807.6	5220.6	4751.7
12.5°	11491.0	11385.4	10696.0	8950.6	7848.1	7133.7	6413.2	5689.6	4947.3	4354.2	3785.8
15°	11273.6	11121.4	10354.3	8649.3	7450.5	6543.7	5639.9	4807.6	3953.5	3298.2	2869.6
17.5°	11668.0	11416.5	10599.7	8596.5	6975.4	5773.5	4661.6	3577.7	2689.5	2189.5	1925.5
20°	12571.8	12283.0	11220.8	8543.7	6447.4	4910.1	3543.6	2528.0	1860.3	1587.0	1441.0
22.5°	13913.4	13515.9	12140.1	8627.6	5959.8	4068.4	2559.1	1785.8	1478.3	1307.5	1205.0
25°	15525.3	15193.0	13304.7	8925.7	5574.7	3406.9	1978.3	1459.7	1245.4	1139.8	1062.1
27.5°	17292.4	16761.3	14811.0	9282.9	5223.8	2894.5	1736.1	1304.4	1108.7	1012.5	972.1
30°	18550.2	18137.2	16071.9	9531.3	4785.9	2509.4	1587.0	1285.8	1111.8	996.9	922.4
32.5°	19792.5	19264.5	17127.8	9646.2	4466.0	2242.3	1372.7	1121.2	975.2	916.2	841.6
35°	21121.7	20568.9	18180.6	9584.1	4226.8	2065.3	1245.4	1000.0	835.4	736.0	661.5
37.5°	22466.5	21882.6	19227.3	9360.5	4077.8	1993.8	1146.0	950.3	788.8	686.4	605.6
40°	24062.8	23283.3	20208.7	9177.3	3922.5	1956.6	1080.8	919.3	754.7	646.0	565.2
42.5°	25367.2	24624.9	21137.3	9081.0	3816.9	1869.6	1080.8	894.4	732.9	611.8	528.0
45°	26603.2	25833.0	22140.4	9158.6	3773.4	1760.9	1093.2	891.3	717.4	587.0	503.1
47.5°	27637.4	26969.7	23171.5	9450.6	3717.5	1642.9	1028.0	934.8	708.1	565.2	478.3
50°	28858.0	28212.0	24534.9	10040.7	3618.1	1524.9	947.2	1006.2	705.0	546.6	456.5
52.5°	30578.5	29879.7	26416.9	10711.5	3459.7	1344.8	872.7	996.9	692.6	515.5	434.8
55°	32681.1	32115.8	28597.1	11515.9	3242.3	1142.9	754.7	885.1	655.3	462.7	397.5
57.5°	34028.9	33547.5	30230.7	11863.7	2910.0	934.8	664.6	742.3	599.4	413.1	354.0
59°	34187.3	33752.5	30572.3	11748.8	2692.6	854.1	621.1	636.7	583.9	385.1	329.2
60°	34053.8	33603.4	30435.7	11525.2	2490.8	798.2	583.9	565.2	587.0	369.6	310.6
62.5°	33196.6	32426.4	29109.5	10391.6	2177.1	732.9	518.6	462.7	518.6	332.3	276.4
65°	31541.3	30386.0	26485.2	8795.3	2052.9	695.7	441.0	388.2	394.4	291.9	239.1
67.5°	28649.9	27193.3	22991.3	7146.2	2000.1	698.8	372.7	347.8	304.4	248.5	211.2
70°	24078.3	22624.9	18447.7	5879.1	1975.2	698.8	316.8	298.1	254.7	208.1	183.2
72.5°	17062.6	15497.3	12444.5	4618.1	1779.6	695.7	270.2	270.2	208.1	173.9	149.1
75°	9640.0	9652.5	7823.2	3267.2	1478.3	574.6	217.4	214.3	152.2	133.5	111.8
77.5°	5618.2	5518.8	5273.4	1403.8	686.4	260.9	152.2	130.4	105.6	96.3	80.7
80°	2888.3	2375.8	2313.7	509.3	245.3	164.6	105.6	74.5	68.3	62.1	55.9
82.5°	854.1	857.2	764.0	205.0	136.6	108.7	52.8	40.4	37.3	34.2	34.2
85°	59.0	37.3	43.5	62.1	83.9	43.5	3.1	9.3	9.3	12.4	15.5
87.5°	6.2	3.1	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°	13503.5	13503.5	13503.5	13503.5	13503.5	13503.5	13503.5	13503.5	13503.5	13503.5	13503.5
2.5°	11177.3	11314.0	11059.3	11065.5	10854.3	10922.7	10674.2	10755.0	10609.0	10720.8	11050.0
5°	8410.2	8441.2	8236.3	8171.0	8202.1	8329.4	8379.1	8152.4	8248.7	8059.2	8046.8
7.5°	5925.6	5962.9	5844.9	5829.4	6053.0	6000.2	6096.4	5863.5	5643.0	5739.3	5562.3
10°	4602.6	4447.3	4205.1	4136.8	4093.3	4121.2	4121.2	3910.0	3879.0	3795.1	3922.5
12.5°	3633.6	3444.2	3214.4	2903.8	2826.2	2820.0	2705.0	2518.7	2459.7	2388.3	2493.9
15°	2639.8	2562.2	2369.6	2195.7	2018.7	1984.5	1798.2	1646.0	1444.1	1416.2	1406.9
17.5°	1857.2	1742.3	1739.2	1639.8	1537.3	1469.0	1295.1	1121.2	1043.5	1034.2	1034.2
20°	1391.3	1351.0	1285.8	1273.3	1242.3	1164.6	1009.3	916.2	878.9	882.0	894.4
22.5°	1170.8	1142.9	1083.9	1055.9	1043.5	975.2	860.3	798.2	779.5	779.5	782.6
25°	1046.6	1021.8	956.5	913.1	897.5	847.9	757.8	711.2	695.7	695.7	695.7
27.5°	953.4	922.4	854.1	816.8	788.8	732.9	677.0	630.5	614.9	614.9	618.0
30°	888.2	854.1	791.9	742.3	698.8	649.1	602.5	562.1	543.5	540.4	543.5
32.5°	801.3	770.2	708.1	677.0	627.3	568.3	531.1	493.8	475.2	478.3	475.2
35°	624.2	614.9	571.4	580.8	552.8	503.1	469.0	428.6	406.8	403.7	409.9
37.5°	568.3	531.1	481.4	484.5	475.2	456.5	400.6	357.2	341.6	341.6	344.7
40°	524.9	487.6	431.7	403.7	406.8	406.8	347.8	301.3	285.7	282.6	288.8
42.5°	487.6	450.3	388.2	341.6	329.2	344.7	295.0	248.5	232.9	226.7	232.9
45°	462.7	422.4	350.9	298.1	260.9	279.5	242.2	205.0	186.3	186.3	183.2
47.5°	437.9	400.6	323.0	257.8	217.4	208.1	198.8	164.6	146.0	142.9	146.0
50°	416.2	378.9	291.9	223.6	183.2	161.5	161.5	130.4	118.0	111.8	114.9
52.5°	394.4	354.0	264.0	198.8	158.4	130.4	114.9	105.6	96.3	93.2	96.3
55°	363.4	323.0	236.0	170.8	136.6	108.7	90.1	87.0	80.7	74.5	80.7
57.5°	326.1	288.8	208.1	146.0	108.7	83.9	74.5	71.4	65.2	62.1	62.1
59°	304.4	270.2	192.6	127.3	96.3	74.5	68.3	65.2	59.0	52.8	55.9
60°	291.9	264.0	183.2	118.0	87.0	68.3	62.1	59.0	52.8	49.7	52.8
62.5°	257.8	236.0	161.5	96.3	68.3	49.7	43.5	46.6	43.5	40.4	43.5
65°	226.7	208.1	136.6	74.5	52.8	34.2	31.1	40.4	37.3	34.2	37.3
67.5°	201.9	180.1	114.9	55.9	37.3	18.6	21.7	34.2	34.2	31.1	34.2
70°	173.9	155.3	93.2	40.4	18.6	9.3	15.5	24.8	31.1	28.0	31.1
72.5°	142.9	121.1	71.4	28.0	9.3	0.0	9.3	21.7	31.1	28.0	31.1
75°	111.8	90.1	52.8	15.5	0.0	0.0	3.1	18.6	31.1	28.0	31.1
77.5°	80.7	65.2	31.1	3.1	0.0	0.0	3.1	18.6	31.1	28.0	31.1
80°	52.8	46.6	12.4	0.0	0.0	0.0	3.1	18.6	31.1	31.1	34.2
82.5°	34.2	24.8	0.0	0.0	0.0	0.0	6.2	24.8	34.2	37.3	37.3
85°	15.5	0.0	0.0	0.0	0.0	0.0	12.4	31.1	40.4	40.4	40.4
87.5°	0.0	0.0	0.0	0.0	0.0	6.2	21.7	37.3	46.6	46.6	46.6
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°	13503.5	13503.5	13503.5	13503.5	13503.5	13503.5	13503.5	13503.5	13503.5	13503.5	13503.5
2.5°	11105.9	11301.6	11578.0	12003.4	12348.2	12891.7	13307.8	13876.2	14450.7	14624.6	14894.8
5°	8174.1	8425.7	9053.1	9624.5	9984.8	11133.9	11860.6	13006.6	14034.6	14528.4	15065.6
7.5°	5677.2	5975.3	6453.6	7251.8	8009.5	8944.4	10118.3	11428.9	12935.2	13640.1	14397.9
10°	3984.6	4357.3	5031.2	5686.5	6639.9	7528.2	8686.6	10133.8	11795.4	12627.7	13578.0
12.5°	2515.6	2847.9	3739.2	4475.3	5664.8	6695.8	7764.2	9074.8	11000.3	11854.4	12851.3
15°	1437.9	1717.4	2133.6	3077.7	4397.6	5761.0	7093.4	8615.2	10593.5	11646.3	12724.0
17.5°	1071.5	1146.0	1332.3	1866.5	3068.4	4661.6	6475.3	8475.4	10869.9	12105.9	13335.8
20°	900.6	950.3	1037.3	1248.5	1956.6	3590.2	5872.8	8500.2	11764.3	13317.2	14484.9
22.5°	807.5	838.5	910.0	1046.6	1335.4	2615.0	5167.8	8646.2	12848.2	14804.8	16152.6
25°	708.1	748.5	810.6	928.6	1111.8	1813.7	4472.2	8972.3	14366.9	16693.0	17960.1
27.5°	630.5	667.7	729.8	838.5	975.2	1385.1	3661.6	9251.8	15969.4	18593.7	19631.0
30°	552.8	590.1	652.2	739.2	863.4	1121.2	2788.9	9416.4	17525.3	20019.2	20817.4
32.5°	487.6	518.6	577.7	655.3	757.8	950.3	2198.8	9245.6	18714.8	21314.3	21848.5
35°	422.4	459.6	509.3	580.8	670.8	810.6	1829.2	8655.5	19736.6	22646.6	22839.2
37.5°	354.0	397.5	450.3	515.5	587.0	745.4	1469.0	8003.3	20829.8	24308.1	23991.4
40°	298.1	338.5	388.2	459.6	524.9	683.2	1130.5	7307.7	22009.9	25867.2	25249.2
42.5°	242.2	285.7	344.7	409.9	518.6	596.3	875.8	6587.1	23069.0	27224.4	26385.8
45°	192.6	229.8	291.9	375.8	515.5	512.4	677.0	5875.9	23867.1	28193.4	27233.7
47.5°	152.2	183.2	245.3	366.5	475.2	434.8	543.5	5434.9	24705.7	29066.0	27882.8
50°	121.1	152.2	211.2	382.0	416.2	372.7	456.5	5506.4	25516.3	29510.2	28149.9
52.5°	102.5	133.5	183.2	301.3	319.9	326.1	400.6	5835.6	26562.9	29985.3	28680.9
55°	90.1	118.0	155.3	211.2	248.5	291.9	366.5	6074.7	27963.5	31004.0	29851.8
57.5°	71.4	102.5	139.8	180.1	205.0	254.7	338.5	6093.3	29230.6	32311.5	31407.7
59°	65.2	93.2	130.4	170.8	183.2	229.8	319.9	5935.0	29277.2	32507.1	32122.0
60°	59.0	90.1	124.2	158.4	173.9	217.4	304.4	5751.7	28854.9	32196.6	32417.1
62.5°	49.7	77.6	108.7	127.3	149.1	180.1	264.0	5087.1	26808.2	30789.7	31870.5
65°	43.5	68.3	93.2	105.6	124.2	155.3	232.9	4071.5	24547.3	28882.8	30305.2
67.5°	40.4	62.1	80.7	90.1	108.7	142.9	208.1	2875.9	21618.6	26463.5	27954.2
70°	37.3	59.0	71.4	83.9	96.3	121.1	177.0	1677.1	16652.7	22221.1	23795.7
72.5°	37.3	55.9	62.1	71.4	83.9	108.7	164.6	906.9	11385.4	16950.8	18985.0
75°	37.3	52.8	55.9	62.1	74.5	99.4	146.0	475.2	7360.5	11776.7	14534.6
77.5°	37.3	49.7	55.9	59.0	71.4	87.0	127.3	298.1	4903.9	8248.7	9823.3
80°	40.4	49.7	52.8	59.0	68.3	80.7	105.6	198.8	2882.1	4962.9	5978.4
82.5°	43.5	49.7	55.9	62.1	71.4	77.6	93.2	124.2	1329.2	3282.7	3714.4
85°	46.6	52.8	59.0	65.2	74.5	77.6	87.0	90.1	217.4	1481.4	2003.2
87.5°	49.7	55.9	62.1	68.3	80.7	80.7	80.7	80.7	74.5	158.4	403.7
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: P457425

CATALOG NUMBER: GALN-SA8D-730-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	13503.5	13503.5	13503.5	13503.5	13503.5	13503.5	13503.5	13503.5	13503.5	13503.5
2.5°	15236.5	15587.4	15832.8	15894.9	15717.8	15637.1	15413.5	15065.6	14854.5	14845.1
5°	16056.4	16879.4	17450.8	17547.1	17205.5	16627.8	15941.4	15056.3	14537.7	14382.4
7.5°	15916.6	17357.6	18276.9	18410.5	17835.9	16733.4	15404.2	13978.7	13413.4	13174.3
10°	15342.1	17099.9	18413.6	18624.8	17857.7	16304.8	14615.3	13025.2	12323.3	12140.1
12.5°	14851.4	16627.8	17795.5	18087.5	17506.7	15957.0	14143.3	12413.4	11661.8	11491.0
15°	14637.1	16068.8	16783.1	16932.2	16835.9	15739.6	14093.6	12320.2	11460.0	11273.6
17.5°	14851.4	15593.6	15683.7	15835.9	16050.1	15717.8	14571.8	12826.5	11897.9	11668.0
20°	15413.5	15180.6	14807.9	14873.1	15363.8	15807.9	15422.8	13947.6	12817.1	12571.8
22.5°	16370.0	15078.1	14233.3	14177.4	14798.6	16109.2	16671.3	15466.3	14155.7	13913.4
25°	17544.0	15335.8	14022.1	13901.0	14578.1	16550.2	18028.5	17326.6	15894.9	15525.3
27.5°	18823.5	15870.0	14022.1	13904.1	14559.4	16941.5	19190.0	18972.6	17696.2	17292.4
30°	19525.4	16311.0	14224.0	14090.5	14789.2	17168.2	19811.1	20435.4	19050.2	18550.2
32.5°	20152.8	16922.8	14618.4	14366.9	15270.6	17503.6	20367.0	21677.6	20127.9	19792.5
35°	20730.4	17578.1	15161.9	14870.0	15904.2	17963.2	20982.0	22982.0	21627.9	21121.7
37.5°	21367.1	18339.0	16009.8	15761.3	16963.2	18857.7	21711.8	24696.4	23103.1	22466.5
40°	22059.6	19221.0	17404.2	17298.6	18646.5	19870.1	22634.2	26525.6	24786.4	24062.8
42.5°	22764.6	20236.6	19112.3	19286.3	20553.4	21289.4	23581.4	27932.5	26165.3	25367.2
45°	23404.4	21534.8	21332.9	22193.2	22777.0	22674.6	24283.3	28923.2	27367.2	26603.2
47.5°	24211.9	23426.1	24019.3	25345.4	25361.0	24180.8	24814.4	29733.8	28401.4	27637.4
50°	25115.6	25659.1	27488.4	28839.3	28476.0	25662.2	25435.5	30693.4	29469.8	28858.0
52.5°	26162.2	28159.2	30693.4	32193.5	31345.6	27277.2	26469.7	31730.7	31165.5	30578.5
55°	27379.7	29864.2	33889.2	35084.9	34230.8	29283.4	28041.2	33137.6	33081.7	32681.1
57.5°	28755.5	31665.5	35740.2	37358.2	36597.3	31637.6	30236.9	34463.7	34252.5	34028.9
59°	29842.5	32591.0	36556.9	38234.0	37774.4	33286.7	31712.1	35289.8	34522.7	34187.3
60°	30500.9	33218.3	36858.2	38352.0	38246.4	34268.1	32646.9	35693.6	34519.6	34053.8
62.5°	32454.3	34314.6	36743.3	37827.2	38240.2	36150.1	35389.2	36137.7	33879.9	33196.6
65°	33150.0	33951.3	34839.5	34706.0	35060.0	36053.8	37140.8	35650.1	32513.4	31541.3
67.5°	31795.9	29966.7	30280.4	29389.0	29215.1	32053.7	36429.6	33264.9	29839.4	28649.9
70°	26802.0	22957.2	22798.8	23208.7	22084.5	25951.1	32712.1	28671.6	25426.2	24078.3
72.5°	21096.9	16224.1	14888.6	16398.0	16363.8	19798.7	27174.7	20345.3	17177.5	17062.6
75°	16590.5	11295.4	9913.3	10158.7	10630.7	14332.7	21643.5	12919.6	10577.9	9640.0
77.5°	11137.0	8003.3	7466.1	7164.8	7674.1	9202.1	13692.9	7006.4	5931.8	5618.2
80°	6419.4	5813.8	6602.7	5994.0	6267.3	5798.3	6810.8	3214.4	2667.8	2888.3
82.5°	4177.1	3310.7	3528.1	2621.2	3584.0	3615.0	2186.4	950.3	804.4	854.1
85°	2611.9	1552.8	872.7	621.1	1236.1	2273.4	683.2	59.0	68.3	59.0
87.5°	677.0	257.8	108.7	161.5	198.8	177.0	158.4	9.3	3.1	6.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)