

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: P458353

Luminaire Tested: **GALN-SA9D-730-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458353
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-SA9D-730-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 45868 lumens
Efficiency: N/A
Efficacy: 83.1 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

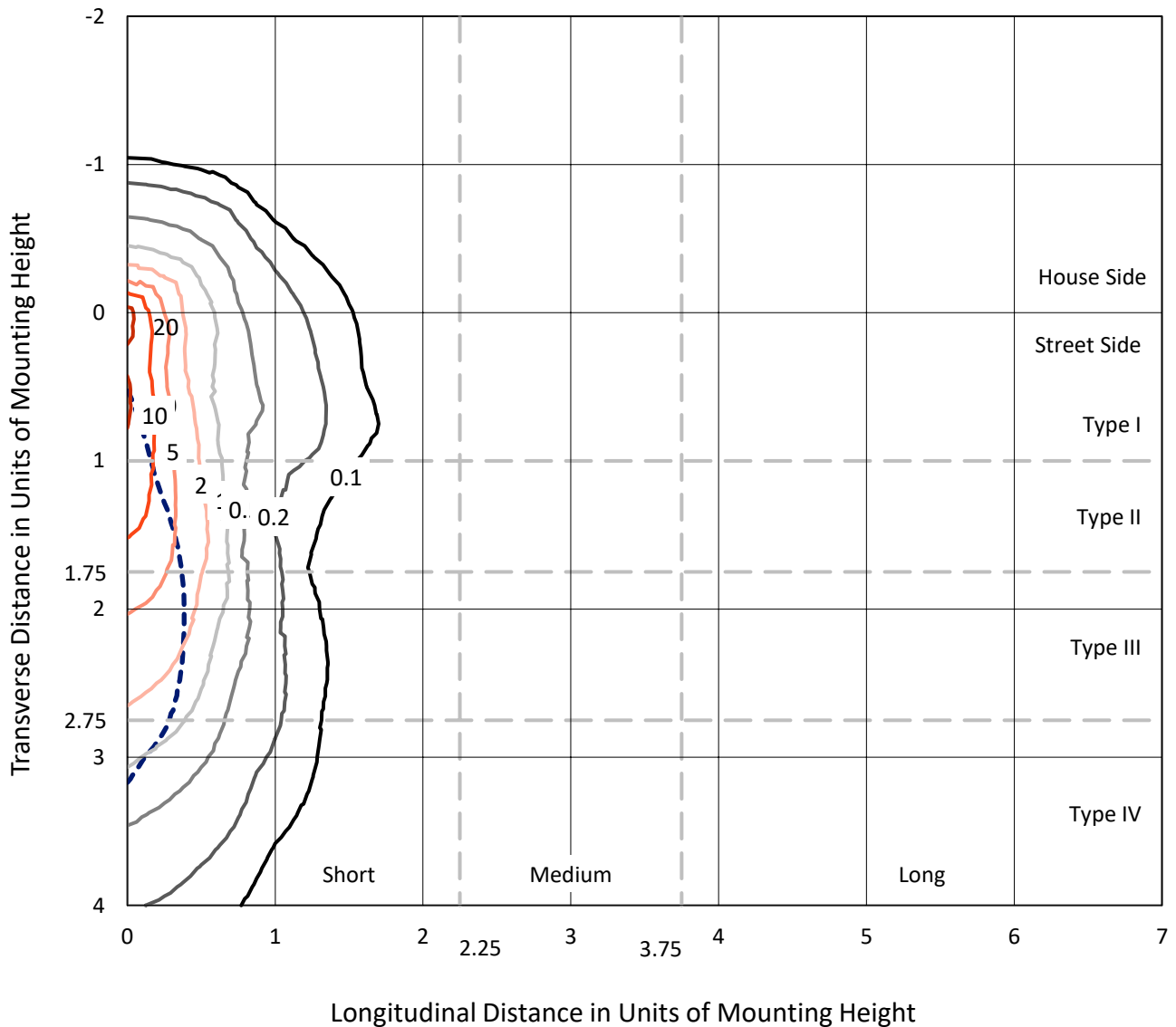
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458353
 CATALOG NUMBER: GALN-SA9D-730-U-SLR-HSS

Iso-Footcandle Lines of Horizontal Illumination

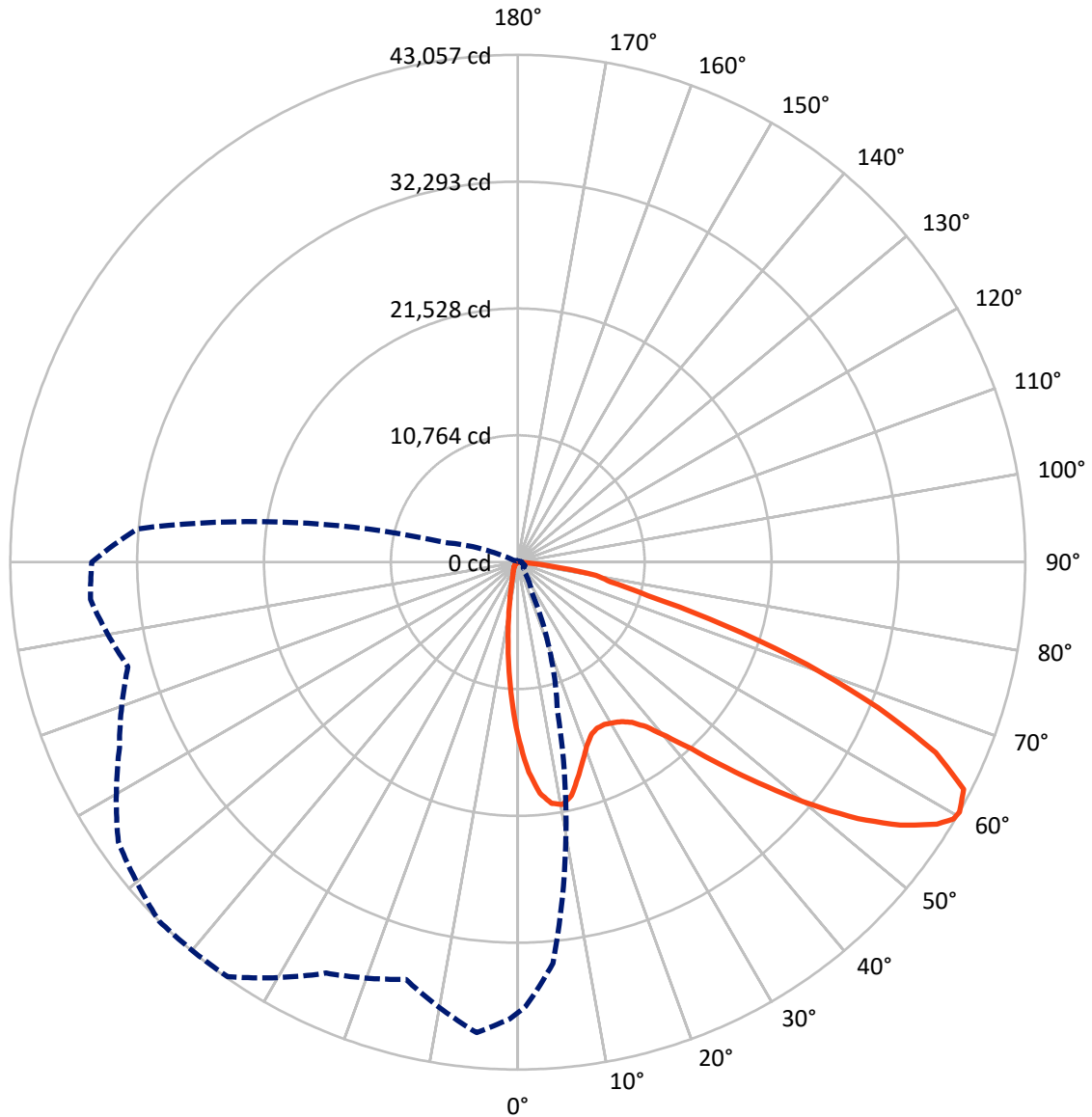
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P458353
CATALOG NUMBER: GALN-SA9D-730-U-SLR-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

REPORT NUMBER: P458353
 CATALOG NUMBER: GALN-SA9D-730-U-SLR-HSS

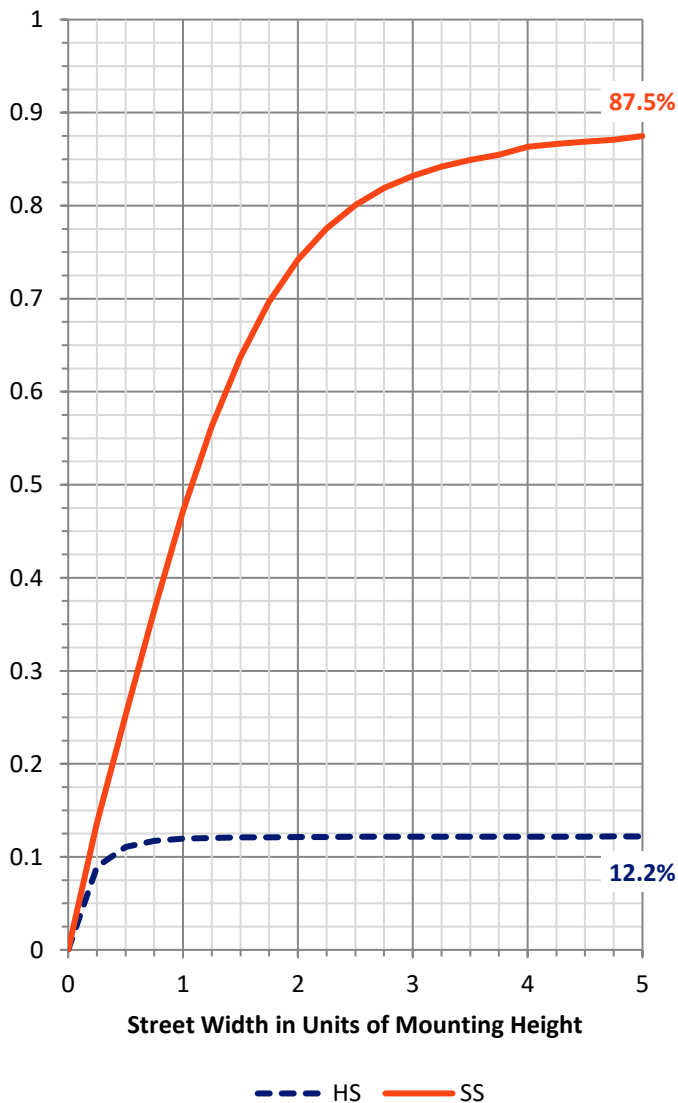
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5657.4	0.0	5657.4
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	40210.6	0.0	40210.6
	% Fixture	87.7	0.0	87.7
Total	Lumens	45868.0	0.0	45868.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1127.6	2.5
10°-20°	2239.3	4.9
20°-30°	3283.5	7.2
30°-40°	4883.1	10.6
40°-50°	7106.4	15.5
50°-60°	10248.0	22.3
60°-70°	11271.7	24.6
70°-80°	5048.8	11.0
80°-90°	659.7	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°	45868.0	100.0
0°-180°	45868.0	100.0

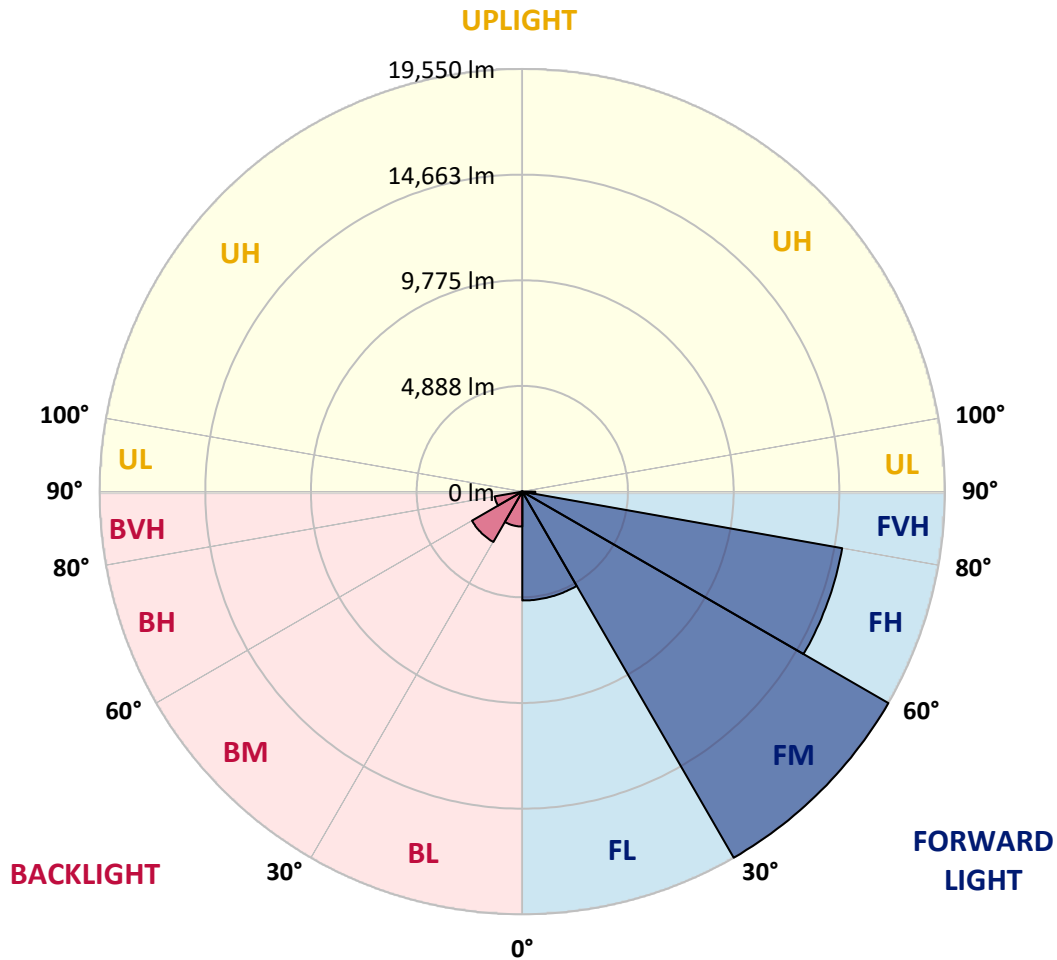


REPORT NUMBER: P458353
 CATALOG NUMBER: GALN-SA9D-730-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5033.9	11.0			
FM	(30°-60°)	19550.4	42.6			
FH	(60°-80°)	15023.1	32.8			G5
FVH	(80°-90°)	603.3	1.3			G4/750
BL	(0°-30°)	1616.5	3.5	B3/2500		
BM	(30°-60°)	2687.1	5.9	B3/5000		
BH	(60°-80°)	1297.4	2.8	B3/2500		G3/2500
BVH	(80°-90°)	56.4	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-G5
 Type IV Short





REPORT NUMBER: P458353

CATALOG NUMBER: GALN-SA9D-730-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	15160.0	15160.0	15160.0	15160.0	15160.0	15160.0	15160.0	15160.0	15160.0	15160.0	15160.0
2.5°	16666.3	16593.0	16425.7	15916.6	15473.8	14895.0	14309.3	13849.0	13566.6	13047.1	12810.0
5°	16146.8	16181.6	15697.0	14651.0	13486.4	12691.5	11823.3	11132.9	10372.8	9891.7	9386.1
7.5°	14790.4	14720.7	14194.2	12736.8	11321.2	10170.6	9072.3	8179.7	7618.4	7168.6	6792.0
10°	13629.4	13577.1	12904.2	11028.3	9508.1	8646.9	7904.3	7123.3	6520.1	5861.1	5334.6
12.5°	12900.7	12782.1	12008.1	10048.6	8810.8	8008.9	7200.0	6387.6	5554.3	4888.3	4250.2
15°	12656.6	12485.8	11624.5	9710.4	8364.5	7346.4	6331.8	5397.4	4438.5	3702.8	3221.7
17.5°	13099.4	12817.0	11900.0	9651.1	7831.1	6481.7	5233.5	4016.6	3019.5	2458.1	2161.7
20°	14114.0	13789.8	12597.3	9591.8	7238.3	5512.4	3978.3	2838.1	2088.5	1781.7	1617.8
22.5°	15620.3	15174.0	13629.4	9686.0	6690.9	4567.5	2873.0	2004.8	1659.7	1467.9	1352.8
25°	17429.9	17056.8	14936.9	10020.7	6258.6	3824.9	2221.0	1638.7	1398.2	1279.6	1192.4
27.5°	19413.8	18817.5	16627.9	10421.6	5864.6	3249.6	1949.0	1464.4	1244.7	1136.7	1091.3
30°	20825.9	20362.1	18043.5	10700.6	5373.0	2817.2	1781.7	1443.5	1248.2	1119.2	1035.5
32.5°	22220.5	21627.8	19229.0	10829.6	5013.8	2517.4	1541.1	1258.7	1094.8	1028.6	944.9
35°	23712.8	23092.2	20411.0	10759.9	4745.4	2318.6	1398.2	1122.7	937.9	826.3	742.7
37.5°	25222.6	24567.1	21586.0	10508.8	4578.0	2238.4	1286.6	1066.9	885.6	770.6	679.9
40°	27014.7	26139.5	22687.7	10303.1	4403.7	2196.6	1213.4	1032.1	847.3	725.2	634.6
42.5°	28479.1	27645.8	23730.3	10195.0	4285.1	2099.0	1213.4	1004.2	822.9	686.9	592.7
45°	29866.8	29002.1	24856.5	10282.2	4236.3	1976.9	1227.3	1000.7	805.4	659.0	564.8
47.5°	31027.9	30278.2	26014.0	10609.9	4173.5	1844.4	1154.1	1049.5	795.0	634.6	536.9
50°	32398.1	31672.9	27544.7	11272.4	4062.0	1712.0	1063.4	1129.7	791.5	613.7	512.5
52.5°	34329.7	33545.2	29657.6	12025.5	3884.1	1509.7	979.8	1119.2	777.5	578.8	488.1
55°	36690.2	36055.6	32105.2	12928.6	3640.1	1283.1	847.3	993.7	735.7	519.5	446.3
57.5°	38203.4	37663.0	33939.2	13319.1	3267.0	1049.5	746.1	833.3	672.9	463.7	397.5
59°	38381.2	37893.1	34322.8	13190.1	3022.9	958.8	697.3	714.8	655.5	432.3	369.6
60°	38231.3	37725.7	34169.3	12939.0	2796.3	896.1	655.5	634.6	659.0	414.9	348.7
62.5°	37269.0	36404.3	32680.5	11666.4	2444.2	822.9	582.3	519.5	582.3	373.1	310.3
65°	35410.6	34113.6	29734.3	9874.2	2304.7	781.0	495.1	435.8	442.8	327.7	268.5
67.5°	32164.5	30529.3	25811.8	8022.8	2245.4	784.5	418.4	390.5	341.7	278.9	237.1
70°	27032.1	25400.4	20710.8	6600.3	2217.5	784.5	355.6	334.7	285.9	233.6	205.7
72.5°	19155.8	17398.5	13971.1	5184.7	1997.9	781.0	303.3	303.3	233.6	195.3	167.4
75°	10822.6	10836.6	8782.9	3668.0	1659.7	645.0	244.1	240.6	170.8	149.9	125.5
77.5°	6307.4	6195.8	5920.4	1576.0	770.6	292.9	170.8	146.4	118.5	108.1	90.7
80°	3242.6	2667.3	2597.6	571.8	275.4	184.8	118.5	83.7	76.7	69.7	62.8
82.5°	958.8	962.3	857.7	230.1	153.4	122.0	59.3	45.3	41.8	38.4	38.4
85°	66.2	41.8	48.8	69.7	94.1	48.8	3.5	10.5	10.5	13.9	17.4
87.5°	7.0	3.5	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



REPORT NUMBER: P458353

CATALOG NUMBER: GALN-SA9D-730-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	15160.0	15160.0	15160.0	15160.0	15160.0	15160.0	15160.0	15160.0	15160.0	15160.0	15160.0
2.5°	12548.5	12701.9	12416.0	12423.0	12185.9	12262.6	11983.7	12074.3	11910.5	12036.0	12405.6
5°	9441.9	9476.8	9246.6	9173.4	9208.3	9351.2	9407.0	9152.5	9260.6	9047.9	9034.0
7.5°	6652.6	6694.4	6561.9	6544.5	6795.5	6736.2	6844.3	6582.8	6335.3	6443.4	6244.6
10°	5167.2	4992.9	4720.9	4644.2	4595.4	4626.8	4626.8	4389.7	4354.8	4260.7	4403.7
12.5°	4079.4	3866.7	3608.7	3260.0	3172.9	3165.9	3036.9	2827.7	2761.4	2681.2	2799.8
15°	2963.7	2876.5	2660.3	2465.1	2266.3	2228.0	2018.8	1847.9	1621.3	1589.9	1579.5
17.5°	2085.0	1956.0	1952.5	1841.0	1725.9	1649.2	1453.9	1258.7	1171.5	1161.1	1161.1
20°	1562.0	1516.7	1443.5	1429.5	1394.7	1307.5	1133.2	1028.6	986.7	990.2	1004.2
22.5°	1314.5	1283.1	1216.8	1185.5	1171.5	1094.8	965.8	896.1	875.2	875.2	878.6
25°	1175.0	1147.1	1073.9	1025.1	1007.6	951.9	850.7	798.4	781.0	781.0	781.0
27.5°	1070.4	1035.5	958.8	917.0	885.6	822.9	760.1	707.8	690.4	690.4	693.8
30°	997.2	958.8	889.1	833.3	784.5	728.7	676.4	631.1	610.2	606.7	610.2
32.5°	899.6	864.7	795.0	760.1	704.3	638.1	596.2	554.4	533.5	536.9	533.5
35°	700.8	690.4	641.5	652.0	620.6	564.8	526.5	481.2	456.8	453.3	460.2
37.5°	638.1	596.2	540.4	543.9	533.5	512.5	449.8	401.0	383.5	383.5	387.0
40°	589.2	547.4	484.6	453.3	456.8	456.8	390.5	338.2	320.8	317.3	324.3
42.5°	547.4	505.6	435.8	383.5	369.6	387.0	331.2	278.9	261.5	254.5	261.5
45°	519.5	474.2	394.0	334.7	292.9	313.8	272.0	230.1	209.2	209.2	205.7
47.5°	491.6	449.8	362.6	289.4	244.1	233.6	223.1	184.8	163.9	160.4	163.9
50°	467.2	425.4	327.7	251.0	205.7	181.3	181.3	146.4	132.5	125.5	129.0
52.5°	442.8	397.5	296.4	223.1	177.8	146.4	129.0	118.5	108.1	104.6	108.1
55°	407.9	362.6	265.0	191.8	153.4	122.0	101.1	97.6	90.7	83.7	90.7
57.5°	366.1	324.3	233.6	163.9	122.0	94.1	83.7	80.2	73.2	69.7	69.7
59°	341.7	303.3	216.2	143.0	108.1	83.7	76.7	73.2	66.2	59.3	62.8
60°	327.7	296.4	205.7	132.5	97.6	76.7	69.7	66.2	59.3	55.8	59.3
62.5°	289.4	265.0	181.3	108.1	76.7	55.8	48.8	52.3	48.8	45.3	48.8
65°	254.5	233.6	153.4	83.7	59.3	38.4	34.9	45.3	41.8	38.4	41.8
67.5°	226.6	202.2	129.0	62.8	41.8	20.9	24.4	38.4	38.4	34.9	38.4
70°	195.3	174.3	104.6	45.3	20.9	10.5	17.4	27.9	34.9	31.4	34.9
72.5°	160.4	136.0	80.2	31.4	10.5	0.0	10.5	24.4	34.9	31.4	34.9
75°	125.5	101.1	59.3	17.4	0.0	0.0	3.5	20.9	34.9	31.4	34.9
77.5°	90.7	73.2	34.9	3.5	0.0	0.0	3.5	20.9	34.9	31.4	34.9
80°	59.3	52.3	13.9	0.0	0.0	0.0	3.5	20.9	34.9	34.9	38.4
82.5°	38.4	27.9	0.0	0.0	0.0	0.0	7.0	27.9	38.4	41.8	41.8
85°	17.4	0.0	0.0	0.0	0.0	0.0	13.9	34.9	45.3	45.3	45.3
87.5°	0.0	0.0	0.0	0.0	0.0	7.0	24.4	41.8	52.3	52.3	52.3
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-SA9D-730-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	15160.0	15160.0	15160.0	15160.0	15160.0	15160.0	15160.0	15160.0	15160.0	15160.0	15160.0
2.5°	12468.3	12688.0	12998.3	13476.0	13863.0	14473.2	14940.4	15578.4	16223.5	16418.7	16722.1
5°	9176.9	9459.3	10163.6	10805.2	11209.6	12499.7	13315.6	14602.2	15756.2	16310.6	16913.8
7.5°	6373.6	6708.3	7245.3	8141.4	8992.1	10041.6	11359.6	12830.9	14522.0	15313.4	16164.2
10°	4473.4	4891.8	5648.4	6384.1	7454.5	8451.7	9752.2	11377.0	13242.4	14176.8	15243.7
12.5°	2824.2	3197.3	4197.9	5024.3	6359.7	7517.3	8716.7	10188.0	12349.8	13308.6	14427.8
15°	1614.3	1928.1	2395.3	3455.3	4937.1	6467.8	7963.5	9672.0	11893.0	13075.0	14284.9
17.5°	1202.9	1286.6	1495.8	2095.5	3444.8	5233.5	7269.7	9515.1	12203.3	13591.0	14971.7
20°	1011.1	1066.9	1164.5	1401.6	2196.6	4030.6	6593.3	9543.0	13207.5	14950.8	16261.8
22.5°	906.5	941.4	1021.6	1175.0	1499.3	2935.8	5801.8	9706.9	14424.3	16620.9	18134.2
25°	795.0	840.3	910.0	1042.5	1248.2	2036.2	5020.8	10073.0	16129.3	18740.8	20163.4
27.5°	707.8	749.6	819.4	941.4	1094.8	1555.1	4110.8	10386.8	17928.4	20874.7	22039.2
30°	620.6	662.5	732.2	829.8	969.3	1258.7	3131.0	10571.6	19675.3	22475.1	23371.1
32.5°	547.4	582.3	648.5	735.7	850.7	1066.9	2468.6	10379.8	21010.7	23929.0	24528.7
35°	474.2	516.0	571.8	652.0	753.1	910.0	2053.6	9717.3	22157.8	25424.8	25641.0
37.5°	397.5	446.3	505.6	578.8	659.0	836.8	1649.2	8985.1	23385.1	27290.1	26934.5
40°	334.7	380.0	435.8	516.0	589.2	767.1	1269.1	8204.1	24710.0	29040.5	28346.6
42.5°	272.0	320.8	387.0	460.2	582.3	669.4	983.2	7395.2	25899.0	30564.1	29622.7
45°	216.2	258.0	327.7	421.9	578.8	575.3	760.1	6596.8	26795.0	31652.0	30574.6
47.5°	170.8	205.7	275.4	411.4	533.5	488.1	610.2	6101.7	27736.4	32631.7	31303.3
50°	136.0	170.8	237.1	428.9	467.2	418.4	512.5	6181.9	28646.5	33130.3	31603.2
52.5°	115.1	149.9	205.7	338.2	359.1	366.1	449.8	6551.4	29821.5	33663.8	32199.4
55°	101.1	132.5	174.3	237.1	278.9	327.7	411.4	6819.9	31394.0	34807.4	33513.8
57.5°	80.2	115.1	156.9	202.2	230.1	285.9	380.0	6840.8	32816.5	36275.3	35260.7
59°	73.2	104.6	146.4	191.8	205.7	258.0	359.1	6663.0	32868.8	36494.9	36062.6
60°	66.2	101.1	139.5	177.8	195.3	244.1	341.7	6457.3	32394.6	36146.3	36393.8
62.5°	55.8	87.2	122.0	143.0	167.4	202.2	296.4	5711.2	30096.9	34566.8	35780.2
65°	48.8	76.7	104.6	118.5	139.5	174.3	261.5	4571.0	27558.6	32426.0	34022.9
67.5°	45.3	69.7	90.7	101.1	122.0	160.4	233.6	3228.7	24270.7	29709.9	31383.5
70°	41.8	66.2	80.2	94.1	108.1	136.0	198.7	1882.8	18695.5	24947.1	26714.8
72.5°	41.8	62.8	69.7	80.2	94.1	122.0	184.8	1018.1	12782.1	19030.2	21314.0
75°	41.8	59.3	62.8	69.7	83.7	111.6	163.9	533.5	8263.4	13221.4	16317.6
77.5°	41.8	55.8	62.8	66.2	80.2	97.6	143.0	334.7	5505.4	9260.6	11028.3
80°	45.3	55.8	59.3	66.2	76.7	90.7	118.5	223.1	3235.6	5571.7	6711.8
82.5°	48.8	55.8	62.8	69.7	80.2	87.2	104.6	139.5	1492.3	3685.4	4170.1
85°	52.3	59.3	66.2	73.2	83.7	87.2	97.6	101.1	244.1	1663.1	2248.9
87.5°	55.8	62.8	69.7	76.7	90.7	90.7	90.7	90.7	83.7	177.8	453.3
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: P458353

CATALOG NUMBER: GALN-SA9D-730-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	15160.0	15160.0	15160.0	15160.0	15160.0	15160.0	15160.0	15160.0	15160.0	15160.0
2.5°	17105.6	17499.6	17775.0	17844.8	17646.0	17555.4	17304.3	16913.8	16676.7	16666.3
5°	18026.1	18950.0	19591.6	19699.7	19316.1	18667.6	17897.1	16903.4	16321.1	16146.8
7.5°	17869.2	19487.0	20519.0	20669.0	20023.9	18786.2	17293.9	15693.5	15058.9	14790.4
10°	17224.1	19197.6	20672.5	20909.5	20048.3	18305.0	16408.3	14623.1	13835.1	13629.4
12.5°	16673.2	18667.6	19978.6	20306.4	19654.3	17914.5	15878.3	13936.2	13092.4	12900.7
15°	16432.7	18040.0	18842.0	19009.3	18901.2	17670.4	15822.5	13831.6	12865.8	12656.6
17.5°	16673.2	17506.6	17607.7	17778.5	18019.1	17646.0	16359.4	14399.9	13357.4	13099.4
20°	17304.3	17042.8	16624.4	16697.6	17248.5	17747.1	17314.8	15658.6	14389.5	14114.0
22.5°	18378.2	16927.8	15979.4	15916.6	16614.0	18085.3	18716.4	17363.6	15892.2	15620.3
25°	19696.2	17217.2	15742.3	15606.3	16366.4	18580.5	20240.1	19452.1	17844.8	17429.9
27.5°	21132.7	17816.9	15742.3	15609.8	16345.5	19019.8	21544.1	21300.1	19867.0	19413.8
30°	21920.7	18312.0	15968.9	15819.0	16603.5	19274.3	22241.5	22942.3	21387.2	20825.9
32.5°	22625.0	18998.9	16411.7	16129.3	17143.9	19650.9	22865.6	24336.9	22597.1	22220.5
35°	23273.5	19734.5	17021.9	16694.2	17855.2	20166.9	23555.9	25801.3	24281.2	23712.8
37.5°	23988.3	20588.8	17973.8	17694.8	19044.2	21171.0	24375.3	27726.0	25937.3	25222.6
40°	24765.8	21579.0	19539.3	19420.7	20934.0	22307.7	25410.8	29779.6	27827.1	27014.7
42.5°	25557.3	22719.1	21457.0	21652.2	23074.8	23901.1	26474.3	31359.1	29375.2	28479.1
45°	26275.5	24176.6	23949.9	24915.7	25571.2	25456.2	27262.3	32471.3	30724.5	29866.8
47.5°	27182.1	26299.9	26965.9	28454.7	28472.1	27147.2	27858.5	33381.4	31885.6	31027.9
50°	28196.7	28806.8	30860.5	32377.2	31969.3	28810.3	28555.8	34458.7	33085.0	32398.1
52.5°	29371.7	31613.6	34458.7	36142.8	35190.9	30623.4	29716.9	35623.3	34988.7	34329.7
55°	30738.5	33527.8	38046.5	39388.9	38430.0	32875.8	31481.1	37202.7	37140.0	36690.2
57.5°	32283.1	35550.1	40124.6	41941.1	41086.9	35518.7	33946.2	38691.5	38454.5	38203.4
59°	33503.4	36589.1	41041.6	42924.4	42408.3	37370.1	35602.4	39619.0	38757.8	38381.2
60°	34242.6	37293.4	41379.8	43056.9	42938.3	38471.9	36651.8	40072.3	38754.3	38231.3
62.5°	36435.7	38524.2	41250.8	42467.6	42931.3	40584.8	39730.6	40570.9	38036.1	37269.0
65°	37216.7	38116.2	39113.4	38963.5	39361.0	40476.7	41697.1	40023.5	36501.9	35410.6
67.5°	35696.5	33642.9	33995.0	32994.3	32799.1	35985.9	40898.6	37345.7	33499.9	32164.5
70°	30089.9	25773.4	25595.6	26055.9	24793.7	29134.6	36725.1	32188.9	28545.3	27032.1
72.5°	23684.9	18214.4	16715.1	18409.6	18371.3	22227.5	30508.3	22841.2	19284.8	19155.8
75°	18625.8	12681.0	11129.4	11404.9	11934.9	16091.0	24298.6	14504.5	11875.6	10822.6
77.5°	12503.2	8985.1	8381.9	8043.7	8615.6	10331.0	15372.7	7865.9	6659.5	6307.4
80°	7206.9	6527.0	7412.7	6729.3	7036.1	6509.6	7646.3	3608.7	2995.0	3242.6
82.5°	4689.6	3716.8	3960.9	2942.7	4023.6	4058.5	2454.6	1066.9	903.0	958.8
85°	2932.3	1743.3	979.8	697.3	1387.7	2552.2	767.1	66.2	76.7	66.2
87.5°	760.1	289.4	122.0	181.3	223.1	198.7	177.8	10.5	3.5	7.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)