

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: P529589

Luminaire Tested: **GALN-SA4D-730-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529589
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-SA4D-730-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA 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: 15408 lumens
Efficiency: N/A
Efficacy: 62.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 245
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

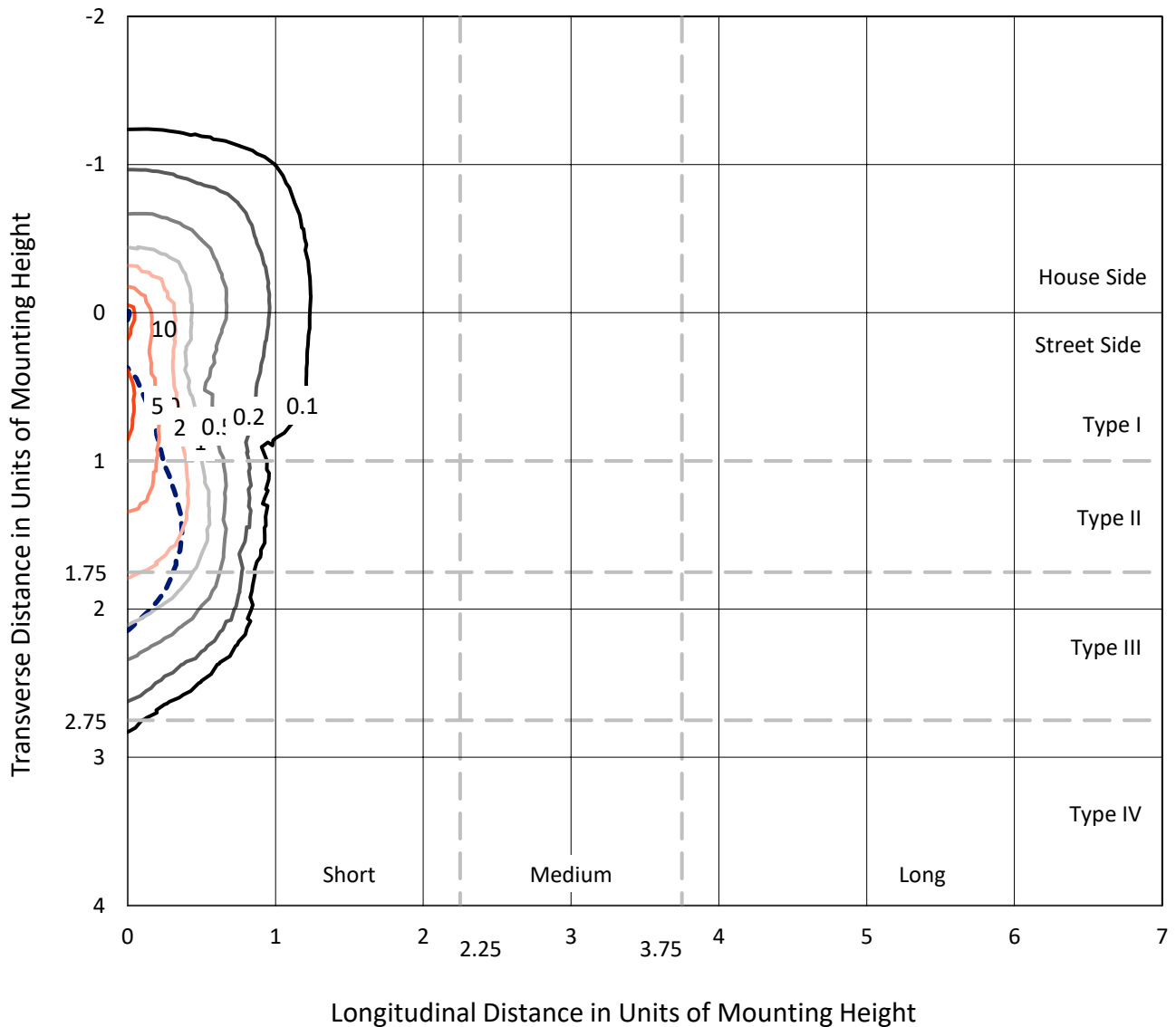




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Iso-Footcandle Lines of Horizontal Illumination

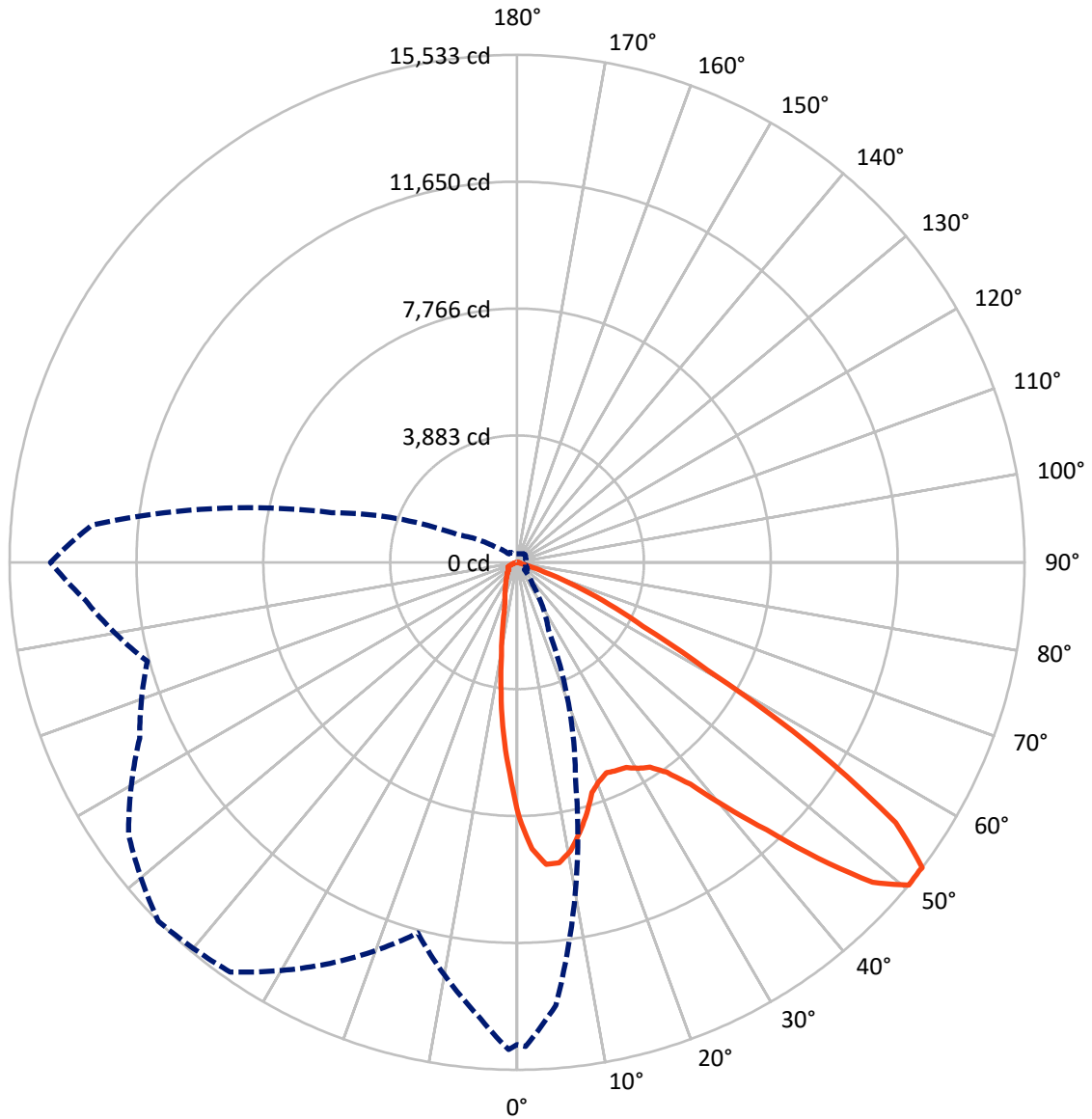
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 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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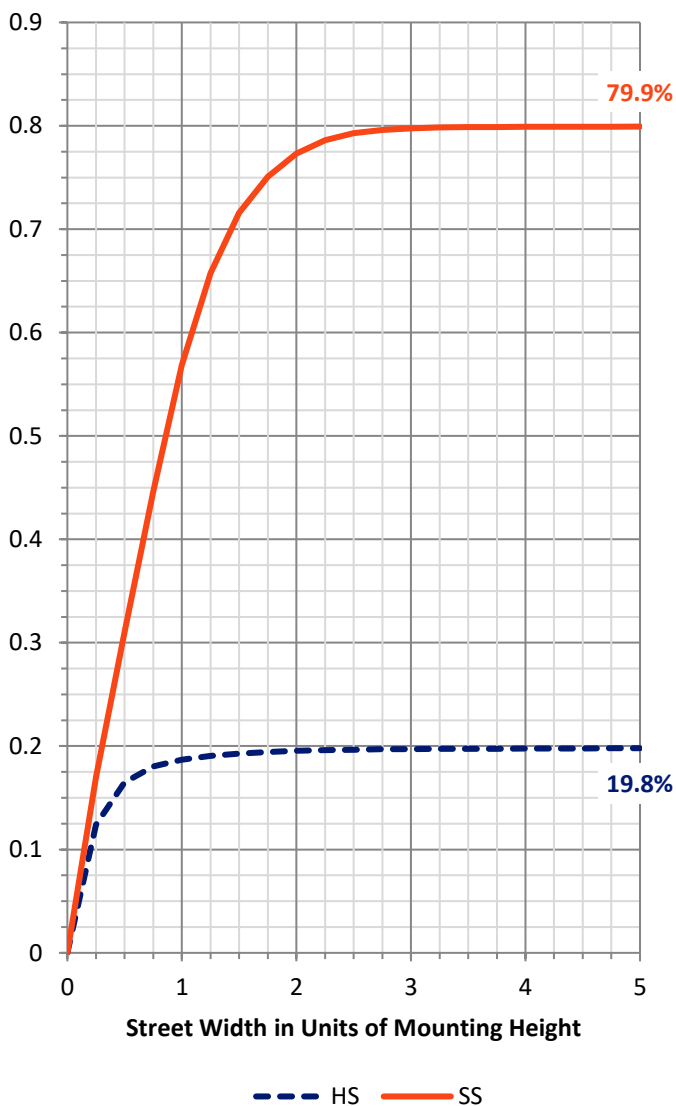
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3086.2	0.0	3086.2
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	12321.8	0.0	12321.8
	% Fixture	80.0	0.0	80.0
Total	Lumens	15408.0	0.0	15408.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	569.5	3.7
10°-20°	1131.9	7.3
20°-30°	1700.5	11.0
30°-40°	2552.4	16.6
40°-50°	3587.3	23.3
50°-60°	3869.5	25.1
60°-70°	1796.6	11.7
70°-80°	169.0	1.1
80°-90°	31.2	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°	15408.0	100.0
0°-180°	15408.0	100.0

Coefficient of Utilization

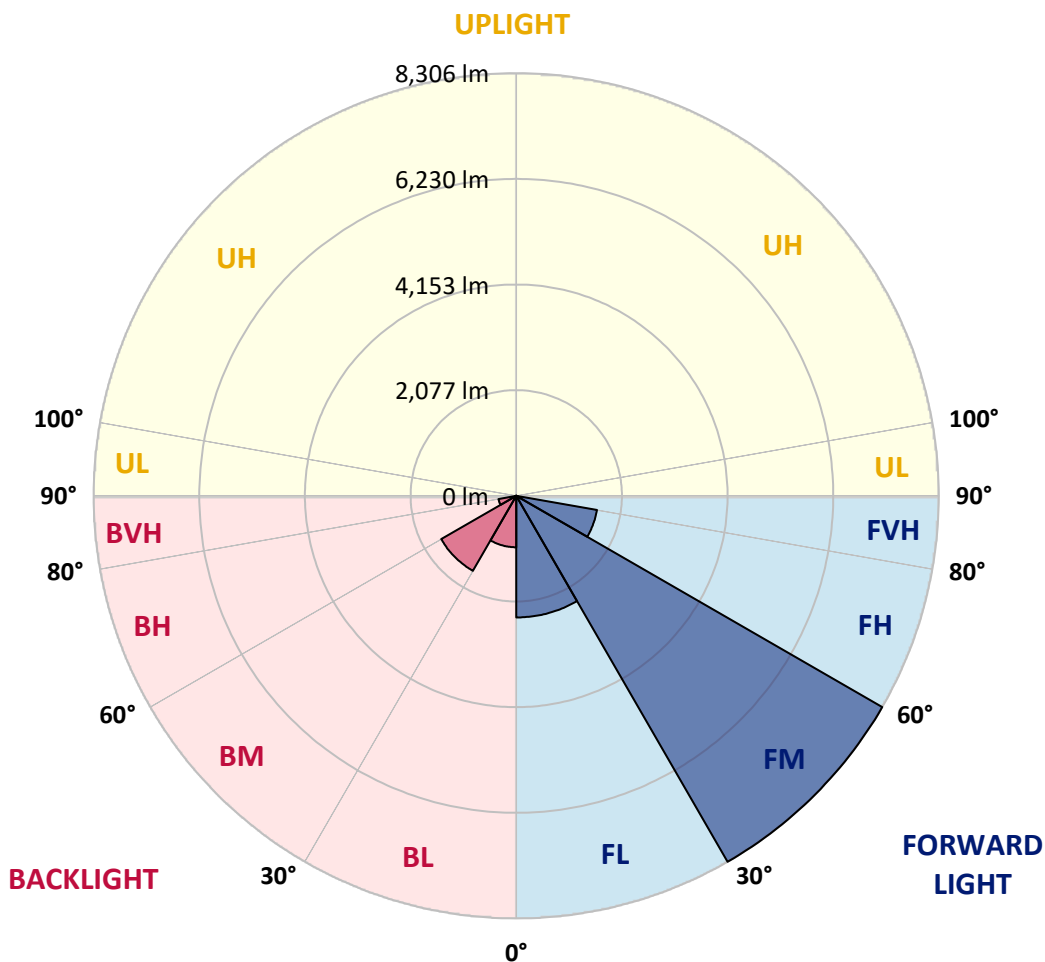


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2390.4	15.5			
FM (30°-60°)	8306.1	53.9			
FH (60°-80°)	1611.3	10.5			G1/1800
FVH (80°-90°)	14.0	0.1			G1/100
BL (0°-30°)	1011.6	6.6	B3/2500		
BM (30°-60°)	1703.1	11.1	B2/2500		
BH (60°-80°)	354.4	2.3	B1/500		G1/500
BVH (80°-90°)	17.1	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-G1
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7813.8	7813.8	7813.8	7813.8	7813.8	7813.8	7813.8	7813.8	7813.8	7813.8	7813.8
2.5°	8122.6	7997.2	7838.3	7706.8	7511.2	7116.8	7009.8	6881.4	6774.4	6630.7	6429.0
5°	7385.8	7346.1	7272.7	6777.5	6419.8	5942.9	5551.6	5386.5	5169.5	4992.1	4863.8
7.5°	6823.3	6664.4	6432.0	5933.7	5362.1	4851.5	4417.4	4163.7	3876.3	3778.5	3604.3
10°	6221.1	6257.8	5915.4	5215.3	4524.4	4111.7	3842.7	3598.1	3338.3	3167.1	2919.5
12.5°	6028.5	5909.3	5646.4	4781.2	4191.2	3806.0	3478.9	3176.3	2901.1	2626.0	2387.5
15°	6153.8	5970.4	5603.6	4689.5	3934.4	3454.5	3044.8	2635.2	2381.4	2029.9	1782.3
17.5°	6603.2	6456.5	5964.3	4787.3	3803.0	3118.2	2509.8	2088.0	1699.7	1381.8	1256.4
20°	7352.2	7144.3	6526.8	4912.7	3607.3	2711.6	2036.0	1516.3	1149.4	1014.9	944.6
22.5°	8085.9	7972.8	7193.2	5154.2	3433.1	2350.9	1528.5	1021.1	859.0	834.6	788.7
25°	9482.9	9143.6	8211.2	5591.3	3298.5	2011.5	1152.5	822.3	727.6	709.2	715.3
27.5°	10314.5	10030.2	9152.8	5881.7	3148.8	1751.7	975.2	755.1	690.9	651.1	635.9
30°	11112.3	10782.2	9620.5	6052.9	2827.8	1476.6	865.1	724.5	709.2	651.1	632.8
32.5°	11726.8	11402.8	10296.1	6309.7	2696.3	1299.2	712.3	565.6	525.8	519.7	574.7
35°	12668.4	12322.9	10873.9	6450.4	2595.4	1207.5	617.5	504.4	458.6	440.2	443.3
37.5°	13545.8	13310.4	11408.9	6505.4	2488.4	1180.0	553.3	452.4	412.7	400.5	397.4
40°	14279.4	13753.6	11916.3	6563.5	2442.6	1128.0	513.6	412.7	385.2	366.8	366.8
42.5°	14615.7	14080.7	12485.0	6529.8	2430.3	1045.5	513.6	379.1	357.7	339.3	336.3
45°	14542.3	14325.3	12738.7	6514.6	2430.3	963.0	467.7	369.9	339.3	314.9	308.8
47.5°	14731.9	14447.6	13056.6	6578.8	2381.4	904.9	394.4	388.2	321.0	290.4	284.3
50°	14765.5	14820.5	13609.9	6912.0	2274.4	831.5	308.8	382.1	308.8	262.9	256.8
52°	14985.6	14643.2	13778.1	7089.3	2161.3	776.5	259.8	327.1	296.5	244.6	238.4
52.5°	14683.0	14906.1	13817.8	7153.5	2173.6	739.8	250.7	321.0	290.4	244.6	229.3
55°	14343.6	14557.6	13655.8	7291.0	1993.2	580.8	195.7	232.3	262.9	214.0	204.8
57.5°	12466.6	12683.7	11867.4	6676.6	1623.3	409.6	162.0	174.3	232.3	198.7	189.5
60°	11081.8	10925.9	9959.8	5569.9	1152.5	229.3	128.4	134.5	253.7	183.4	180.4
62.5°	10128.0	9794.8	8324.3	4301.3	703.1	152.9	100.9	103.9	195.7	171.2	171.2
65°	7492.8	7119.8	5530.2	2601.5	345.4	107.0	76.4	82.5	122.3	146.7	146.7
67.5°	4276.8	4133.1	2671.9	1173.9	143.7	67.3	58.1	64.2	94.8	119.2	113.1
70°	1965.7	1763.9	1027.2	247.6	67.3	45.9	45.9	52.0	76.4	88.7	82.5
72.5°	574.7	544.2	250.7	39.7	27.5	27.5	30.6	39.7	58.1	67.3	61.1
75°	42.8	27.5	18.3	12.2	12.2	18.3	24.5	39.7	58.1	64.2	52.0
77.5°	3.1	6.1	3.1	3.1	9.2	18.3	27.5	48.9	76.4	79.5	58.1
80°	3.1	3.1	0.0	3.1	9.2	18.3	30.6	55.0	85.6	91.7	48.9
82.5°	0.0	0.0	0.0	3.1	12.2	24.5	36.7	58.1	79.5	97.8	52.0
85°	0.0	0.0	0.0	3.1	18.3	33.6	42.8	15.3	9.2	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°	7813.8	7813.8	7813.8	7813.8	7813.8	7813.8	7813.8	7813.8	7813.8	7813.8	7813.8
2.5°	6572.6	6493.2	6462.6	6490.1	6480.9	6471.8	6639.9	6603.2	6597.1	6652.1	6639.9
5°	4934.1	4793.4	5178.6	5022.7	5184.7	5282.6	5300.9	5310.1	5423.2	5304.0	5459.9
7.5°	3515.6	3552.3	3549.2	3653.2	3839.6	4004.7	4102.5	4026.1	4020.0	4004.7	3937.5
10°	2809.4	2745.2	2733.0	2708.5	2766.6	2907.2	3026.5	2931.7	2864.4	2956.2	2928.6
12.5°	2295.8	2207.2	2158.3	2060.4	2063.5	2158.3	2158.3	2158.3	2225.5	2277.5	2317.2
15°	1760.9	1687.5	1687.5	1589.7	1568.3	1571.3	1620.2	1626.3	1733.3	1763.9	1779.2
17.5°	1232.0	1192.2	1238.1	1277.8	1253.4	1259.5	1277.8	1284.0	1299.2	1287.0	1317.6
20°	947.7	941.6	953.8	1024.1	1076.1	1106.6	1085.2	1054.7	1036.3	993.5	993.5
22.5°	804.0	816.2	837.6	895.7	963.0	981.3	956.9	886.5	831.5	825.4	828.5
25°	715.3	727.6	761.2	797.9	834.6	865.1	840.7	788.7	758.1	730.6	730.6
27.5°	660.3	666.4	684.8	712.3	742.9	767.3	758.1	730.6	697.0	684.8	657.3
30°	617.5	626.7	648.1	654.2	681.7	693.9	678.7	672.5	651.1	635.9	626.7
32.5°	596.1	593.1	608.4	614.5	617.5	626.7	608.4	617.5	614.5	590.0	580.8
35°	449.4	473.8	513.6	547.2	556.4	568.6	565.6	553.3	519.7	492.2	458.6
37.5°	403.5	418.8	440.2	467.7	504.4	519.7	513.6	483.0	443.3	424.9	418.8
40°	373.0	382.1	400.5	418.8	455.5	483.0	461.6	434.1	403.5	388.2	379.1
42.5°	345.4	348.5	357.7	376.0	403.5	446.3	409.6	373.0	360.7	351.6	345.4
45°	314.9	314.9	327.1	336.3	366.8	406.6	369.9	336.3	330.2	324.0	321.0
47.5°	290.4	293.5	299.6	311.8	336.3	363.8	339.3	311.8	296.5	293.5	287.4
50°	259.8	262.9	275.1	287.4	317.9	333.2	317.9	287.4	272.1	262.9	262.9
52°	235.4	244.6	256.8	281.2	302.6	327.1	308.8	275.1	256.8	247.6	241.5
52.5°	232.3	238.4	250.7	278.2	302.6	324.0	305.7	272.1	250.7	244.6	238.4
55°	207.9	217.0	238.4	272.1	299.6	324.0	299.6	269.0	238.4	223.2	217.0
57.5°	198.7	204.8	232.3	275.1	296.5	324.0	299.6	269.0	238.4	210.9	204.8
60°	189.5	201.8	232.3	266.0	293.5	327.1	302.6	266.0	232.3	198.7	198.7
62.5°	180.4	189.5	229.3	259.8	281.2	314.9	290.4	259.8	223.2	189.5	186.5
65°	155.9	171.2	201.8	217.0	241.5	272.1	247.6	226.2	195.7	168.1	165.1
67.5°	119.2	125.3	149.8	168.1	183.4	210.9	198.7	171.2	149.8	128.4	128.4
70°	82.5	88.7	107.0	116.2	131.5	146.7	137.6	116.2	100.9	88.7	85.6
72.5°	58.1	61.1	67.3	73.4	79.5	85.6	82.5	67.3	58.1	55.0	52.0
75°	45.9	52.0	55.0	52.0	48.9	45.9	45.9	39.7	33.6	30.6	30.6
77.5°	45.9	48.9	45.9	39.7	33.6	30.6	27.5	24.5	18.3	15.3	18.3
80°	39.7	39.7	39.7	33.6	30.6	27.5	24.5	21.4	18.3	15.3	15.3
82.5°	42.8	42.8	39.7	33.6	33.6	27.5	27.5	24.5	21.4	15.3	15.3
85°	0.0	0.0	0.0	6.1	15.3	27.5	27.5	24.5	21.4	18.3	18.3
87.5°	0.0	0.0	0.0	0.0	3.1	6.1	12.2	15.3	18.3	18.3	18.3
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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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	7813.8	7813.8	7813.8	7813.8	7813.8	7813.8	7813.8	7813.8	7813.8	7813.8	7813.8
2.5°	6749.9	6866.1	7086.2	7306.3	7440.8	7599.8	7887.2	8040.0	8238.7	8336.6	8529.1
5°	5438.5	5713.6	5811.4	6062.1	6331.1	6600.2	7028.1	7498.9	7890.2	8159.2	8507.7
7.5°	3968.0	4032.2	4411.3	4579.4	5019.7	5508.8	6092.7	6685.7	7181.0	7621.2	7887.2
10°	2974.5	3209.9	3448.3	3769.3	4123.9	4628.4	5187.8	5842.0	6484.0	6924.2	7260.5
12.5°	2390.6	2577.1	2895.0	3240.5	3677.6	4010.8	4573.3	5221.4	6052.9	6484.0	6927.3
15°	1809.8	2048.2	2408.9	2766.6	3228.2	3579.8	4148.4	4964.6	6034.6	6627.7	7009.8
17.5°	1342.0	1504.1	1828.1	2228.6	2699.4	3194.6	3961.9	4937.1	6239.4	6945.6	7340.0
20°	1027.2	1082.2	1287.0	1644.7	2155.2	2803.3	3659.3	5056.3	6844.7	7719.0	8119.5
22.5°	831.5	856.0	935.5	1183.1	1678.3	2460.9	3515.6	5138.9	7526.4	8645.3	9180.3
25°	724.5	718.4	770.4	877.4	1311.5	2139.9	3332.2	5450.7	8361.0	9733.6	10213.6
27.5°	660.3	660.3	684.8	761.2	1088.3	1932.1	3216.0	5673.9	9201.7	10690.5	10950.3
30°	626.7	632.8	703.1	727.6	904.9	1684.4	3023.4	5900.1	10005.7	11301.9	11659.6
32.5°	580.8	556.4	541.1	602.2	761.2	1461.3	2830.8	5994.9	10656.8	12050.9	12356.6
35°	446.3	434.1	452.4	498.3	654.2	1271.7	2616.8	6101.9	11405.8	12919.1	12980.2
37.5°	403.5	400.5	412.7	452.4	550.3	1106.6	2464.0	6074.3	11977.5	13637.5	13472.4
40°	373.0	373.0	382.1	415.8	492.2	990.5	2305.0	6049.9	12530.8	14444.5	13961.5
42.5°	348.5	348.5	363.8	385.2	467.7	914.1	2185.8	6016.3	12995.5	14939.8	14248.9
45°	314.9	324.0	348.5	369.9	473.8	862.1	2097.1	5887.9	13154.4	14933.6	14111.3
47.5°	290.4	302.6	327.1	357.7	428.0	846.8	2036.0	5774.8	13099.4	14566.8	13680.3
50°	262.9	278.2	311.8	363.8	363.8	816.2	1971.8	5875.6	13059.7	14282.5	13267.6
52°	244.6	256.8	299.6	354.6	317.9	752.0	1932.1	6071.3	13221.7	14245.8	13084.1
52.5°	241.5	250.7	290.4	348.5	302.6	739.8	1904.5	6117.1	13273.7	14154.1	13209.5
55°	214.0	226.2	266.0	272.1	247.6	608.4	1815.9	6221.1	13016.9	13973.7	13090.3
57.5°	201.8	207.9	235.4	223.2	214.0	458.6	1562.1	6059.1	11561.7	12411.6	12179.3
60°	186.5	192.6	220.1	174.3	180.4	321.0	1173.9	5261.2	9284.2	10342.0	10760.8
62.5°	180.4	177.3	207.9	140.6	152.9	232.3	828.5	4276.8	7153.5	8513.9	9238.4
65°	159.0	155.9	149.8	119.2	131.5	180.4	495.2	2791.1	5041.1	6441.2	6838.6
67.5°	122.3	128.4	110.1	94.8	110.1	140.6	275.1	1250.3	2644.3	3864.1	4185.1
70°	85.6	91.7	88.7	82.5	97.8	116.2	159.0	428.0	1094.4	2029.9	2237.8
72.5°	52.0	64.2	67.3	70.3	85.6	100.9	113.1	137.6	290.4	718.4	892.7
75°	30.6	42.8	52.0	61.1	70.3	85.6	94.8	97.8	100.9	134.5	217.0
77.5°	21.4	30.6	45.9	58.1	70.3	85.6	100.9	107.0	100.9	94.8	100.9
80°	18.3	30.6	42.8	55.0	73.4	88.7	100.9	100.9	97.8	85.6	91.7
82.5°	18.3	30.6	45.9	58.1	70.3	85.6	97.8	100.9	91.7	85.6	88.7
85°	21.4	33.6	48.9	61.1	76.4	70.3	64.2	52.0	48.9	39.7	42.8
87.5°	21.4	30.6	30.6	33.6	36.7	36.7	36.7	33.6	27.5	24.5	24.5
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: P529589

CATALOG NUMBER: GALN-SA4D-730-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	7813.8	7813.8	7813.8	7813.8	7813.8	7813.8	7813.8	7813.8	7813.8	7813.8
2.5°	8538.3	8782.9	8773.7	8779.8	8743.1	8495.5	8376.3	8073.6	8159.2	8122.6
5°	8865.4	9106.9	9314.8	9290.3	9009.1	8672.8	8174.5	7703.7	7575.3	7385.8
7.5°	8538.3	9119.2	9311.7	9284.2	8868.5	8437.4	7642.6	7171.8	6948.7	6823.3
10°	8018.6	8691.2	8929.6	8978.5	8697.3	8043.1	7312.4	6557.4	6438.1	6221.1
12.5°	7722.1	8211.2	8358.0	8489.4	8391.6	7902.5	7061.8	6337.2	6172.2	6028.5
15°	7480.6	7771.0	7832.1	7981.9	8040.0	7777.1	7193.2	6575.7	6169.1	6153.8
17.5°	7703.7	7584.5	7361.4	7407.2	7590.6	7780.2	7532.6	7046.5	6652.1	6603.2
20°	8073.6	7547.8	7043.4	7156.5	7309.4	7890.2	8046.1	7703.7	7477.5	7352.2
22.5°	8498.6	7612.0	6942.5	6997.6	7288.0	8137.8	8877.6	8688.1	8266.2	8085.9
25°	9284.2	7789.3	7022.0	7058.7	7456.1	8483.3	9629.7	9770.3	9519.6	9482.9
27.5°	10051.6	8247.9	7196.3	7113.7	7541.7	8819.6	10085.2	10840.3	10400.1	10314.5
30°	10442.9	8620.9	7456.1	7315.5	7896.3	9024.4	10360.3	11537.3	11152.1	11112.3
32.5°	11042.0	8960.2	7657.9	7477.5	8095.0	9278.1	10873.9	12298.5	11925.5	11726.8
35°	11292.7	9330.1	8101.2	7890.2	8663.7	9632.7	11136.8	12977.1	12861.0	12668.4
37.5°	11775.7	9727.5	8623.9	8611.7	9351.5	10094.4	11610.6	13900.4	13879.0	13545.8
40°	11815.5	10161.6	9449.3	9834.5	10415.3	10898.4	12026.4	14157.2	14505.7	14279.4
42.5°	11876.6	10922.8	10877.0	11194.9	11693.2	11589.2	12041.7	14218.3	14750.2	14615.7
45°	11904.1	11684.0	12329.0	12916.0	13123.9	12494.1	11898.0	14102.1	14878.6	14542.3
47.5°	11684.0	12338.2	13503.0	14637.1	14698.3	13050.5	11836.9	13982.9	14955.0	14731.9
50°	11714.6	12747.9	14517.9	15532.8	15309.7	13542.7	11742.1	13909.5	14915.3	14765.5
52°	11641.2	12757.0	14661.6	15514.5	15358.6	13270.6	11580.1	13628.3	14878.6	14985.6
52.5°	11723.8	12702.0	14511.8	15526.7	15324.9	13405.1	11558.7	13784.2	14900.0	14683.0
55°	11439.4	12047.8	13634.4	14065.4	14034.9	12167.0	10901.4	13267.6	14340.6	14343.6
57.5°	10338.9	10442.9	10693.5	10684.4	10543.7	9565.5	9324.0	12200.7	12784.5	12466.6
60°	9110.0	7645.7	6970.1	6694.9	6539.0	6380.0	8247.9	11161.3	11216.3	11081.8
62.5°	7871.9	5300.9	4402.1	4325.7	4362.4	4943.2	7972.8	10748.6	10418.4	10128.0
65°	6352.5	3864.1	3197.7	3096.8	3454.5	4081.2	6453.4	8241.8	7734.3	7492.8
67.5°	3989.4	2818.6	2161.3	1971.8	2402.8	2809.4	4240.1	5178.6	4610.0	4276.8
70°	2366.2	1574.4	978.3	877.4	987.4	1498.0	2375.3	2583.2	2136.9	1965.7
72.5°	932.4	577.8	272.1	232.3	241.5	525.8	874.3	852.9	645.0	574.7
75°	250.7	174.3	94.8	76.4	64.2	97.8	140.6	91.7	33.6	42.8
77.5°	116.2	103.9	82.5	64.2	48.9	36.7	18.3	6.1	6.1	3.1
80°	100.9	88.7	76.4	64.2	48.9	30.6	15.3	3.1	3.1	3.1
82.5°	94.8	82.5	70.3	58.1	45.9	30.6	15.3	3.1	0.0	0.0
85°	39.7	52.0	58.1	55.0	48.9	30.6	15.3	3.1	0.0	0.0
87.5°	21.4	18.3	15.3	12.2	9.2	6.1	6.1	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)