

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: P529641

Luminaire Tested: **GALN-SA4D-740-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529641
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-740-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 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: 16918 lumens
Efficiency: N/A
Efficacy: 69.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G1

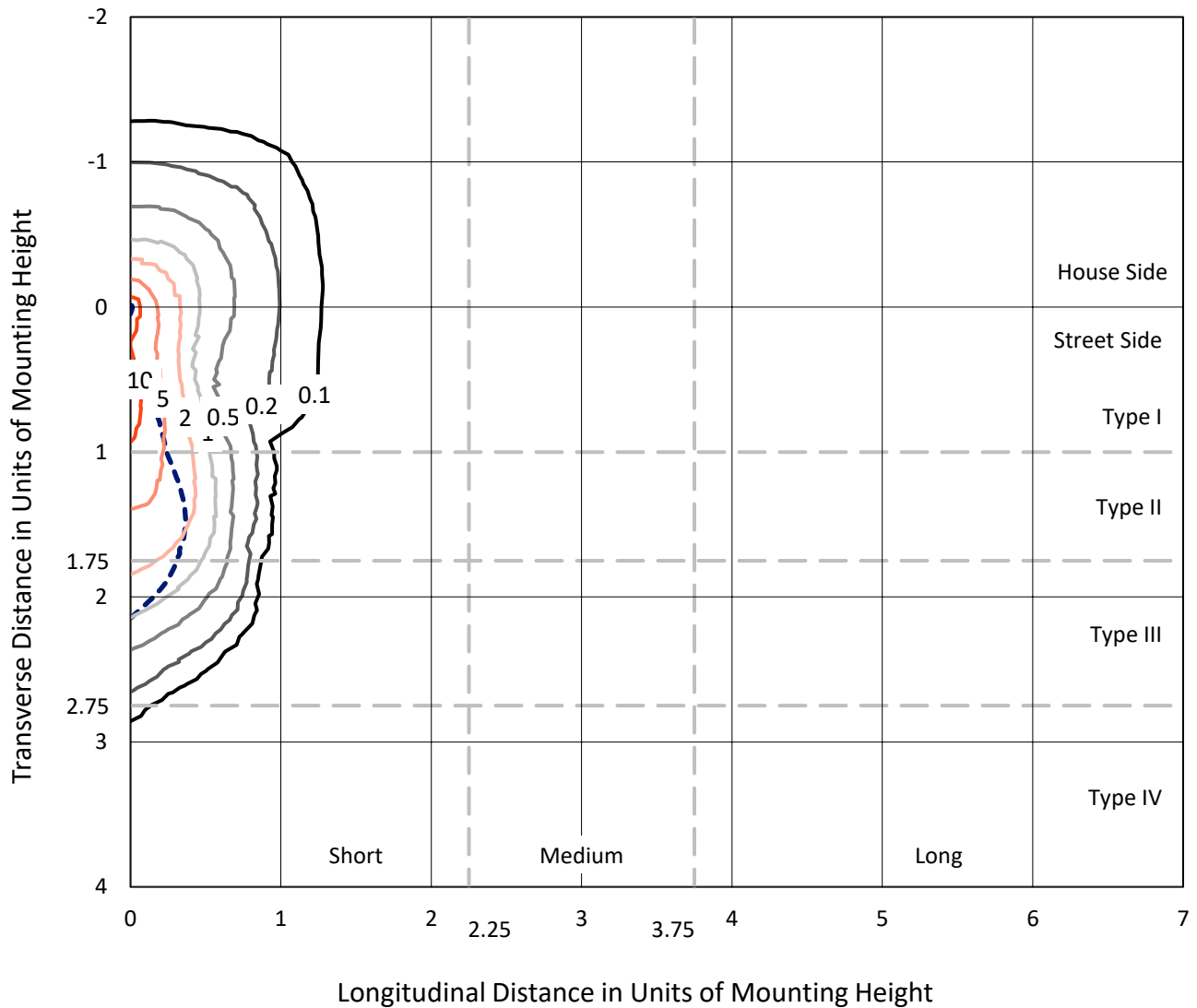
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

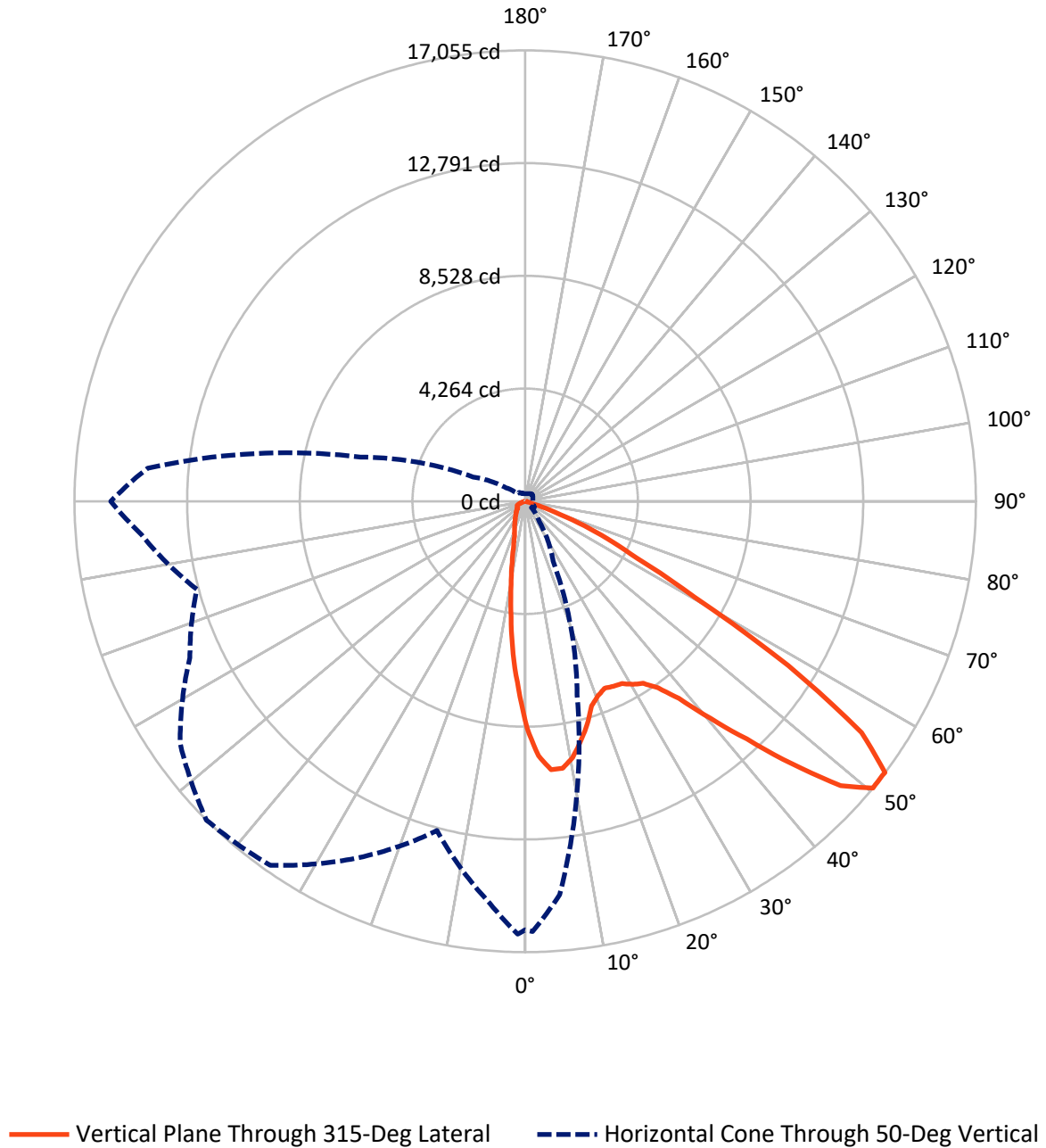
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3388.7	0.0	3388.7
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	13529.3	0.0	13529.3
	% Fixture	80.0	0.0	80.0
Total	Lumens	16918.0	0.0	16918.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	625.4	3.7
10°-20°	1242.9	7.3
20°-30°	1867.2	11.0
30°-40°	2802.6	16.6
40°-50°	3938.8	23.3
50°-60°	4248.7	25.1
60°-70°	1972.7	11.7
70°-80°	185.6	1.1
80°-90°	34.2	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°	16918.0	100.0
0°-180°	16918.0	100.0

Coefficient of Utilization



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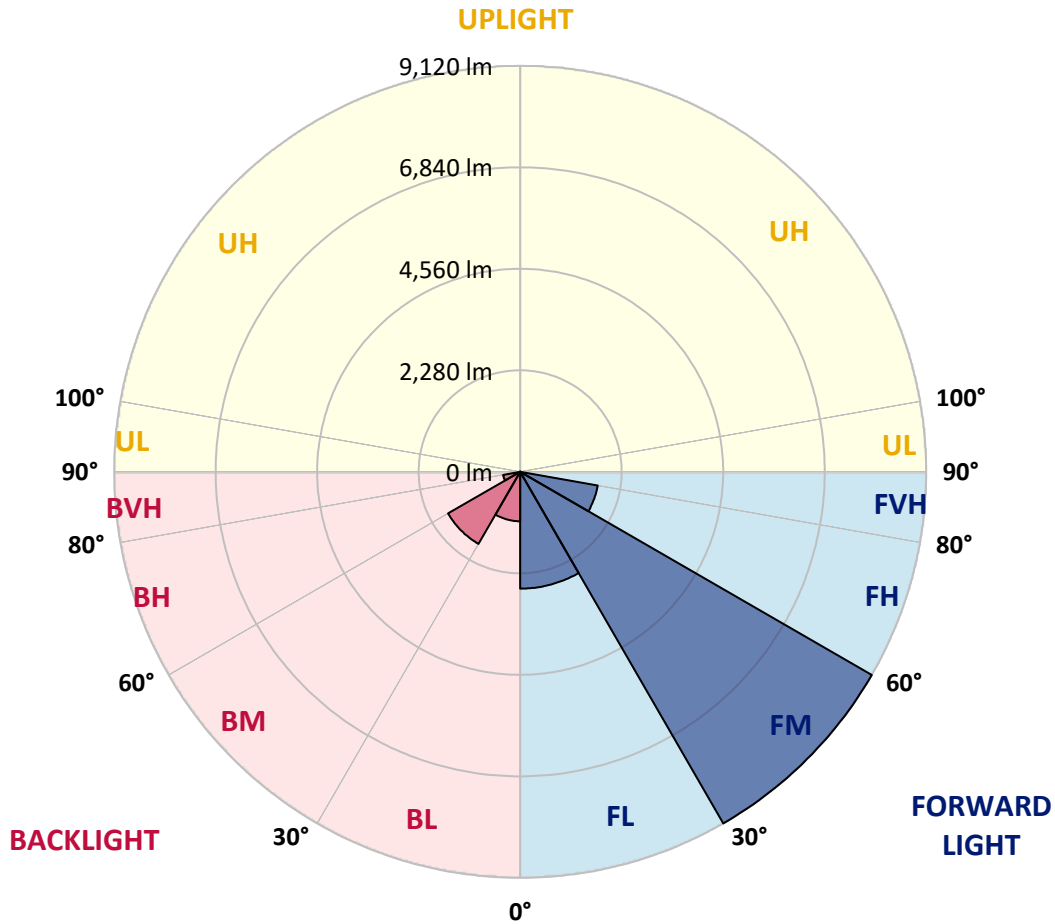
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2624.7	15.5			
FM (30°-60°)	9120.1	53.9			
FH (60°-80°)	1769.2	10.5			G1/1800
FVH (80°-90°)	15.4	0.1			G1/100
BL (0°-30°)	1110.7	6.6	B3/2500		
BM (30°-60°)	1870.0	11.1	B2/2500		
BH (60°-80°)	389.1	2.3	B1/500		G1/500
BVH (80°-90°)	18.8	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°	8579.6	8579.6	8579.6	8579.6	8579.6	8579.6	8579.6	8579.6	8579.6	8579.6	8579.6
2.5°	8918.6	8781.0	8606.4	8462.1	8247.3	7814.2	7696.8	7555.8	7438.3	7280.5	7059.0
5°	8109.6	8066.0	7985.4	7441.7	7048.9	6525.3	6095.6	5914.4	5676.1	5481.4	5340.4
7.5°	7492.0	7317.5	7062.4	6515.2	5887.5	5327.0	4850.3	4571.7	4256.2	4148.8	3957.5
10°	6830.8	6871.0	6495.1	5726.4	4967.8	4514.7	4219.3	3950.8	3665.4	3477.5	3205.6
12.5°	6619.3	6488.4	6199.7	5249.8	4601.9	4179.0	3819.9	3487.5	3185.4	2883.3	2621.5
15°	6756.9	6555.5	6152.7	5149.1	4320.0	3793.0	3343.2	2893.4	2614.8	2228.8	1956.9
17.5°	7250.3	7089.2	6548.8	5256.5	4175.7	3423.8	2755.8	2292.6	1866.3	1517.2	1379.6
20°	8072.7	7844.5	7166.4	5394.1	3960.8	2977.3	2235.5	1664.9	1262.1	1114.4	1037.2
22.5°	8878.3	8754.1	7898.2	5659.3	3769.5	2581.3	1678.3	1121.1	943.2	916.4	866.0
25°	10412.3	10039.7	9015.9	6139.3	3621.8	2208.7	1265.5	902.9	798.9	778.7	785.5
27.5°	11325.3	11013.1	10049.8	6458.2	3457.3	1923.4	1070.8	829.1	758.6	715.0	698.2
30°	12201.4	11838.9	10563.3	6646.1	3104.9	1621.3	949.9	795.5	778.7	715.0	694.8
32.5°	12876.1	12520.2	11305.1	6928.1	2960.6	1426.6	782.1	621.0	577.3	570.6	631.0
35°	13909.9	13530.6	11939.6	7082.5	2849.8	1325.9	678.0	553.8	503.5	483.4	486.7
37.5°	14873.2	14614.8	12527.0	7142.9	2732.3	1295.7	607.6	496.8	453.1	439.7	436.4
40°	15678.8	15101.5	13084.2	7206.7	2682.0	1238.6	563.9	453.1	422.9	402.8	402.8
42.5°	16048.1	15460.7	13708.5	7169.8	2668.5	1148.0	563.9	416.2	392.7	372.6	369.2
45°	15967.5	15729.2	13987.1	7153.0	2668.5	1057.3	513.6	406.2	372.6	345.7	339.0
47.5°	16175.6	15863.5	14336.2	7223.5	2614.8	993.6	433.0	426.3	352.4	318.9	312.2
50°	16212.5	16273.0	14943.7	7589.4	2497.3	913.0	339.0	419.6	339.0	288.7	282.0
52°	16454.2	16078.3	15128.4	7784.0	2373.1	852.6	285.3	359.2	325.6	268.5	261.8
52.5°	16121.9	16367.0	15172.0	7854.5	2386.6	812.3	275.2	352.4	318.9	268.5	251.7
55°	15749.3	15984.3	14994.1	8005.6	2188.5	637.8	214.8	255.1	288.7	235.0	224.9
57.5°	13688.4	13926.7	13030.5	7330.9	1782.4	449.8	177.9	191.3	255.1	218.2	208.1
60°	12167.8	11996.6	10935.9	6115.8	1265.5	251.7	141.0	147.7	278.6	201.4	198.0
62.5°	11120.5	10754.7	9140.1	4722.8	772.0	167.8	110.8	114.1	214.8	188.0	188.0
65°	8227.1	7817.6	6072.2	2856.5	379.3	117.5	83.9	90.6	134.3	161.1	161.1
67.5°	4695.9	4538.2	2933.7	1288.9	157.8	73.8	63.8	70.5	104.1	130.9	124.2
70°	2158.3	1936.8	1127.8	271.9	73.8	50.3	50.3	57.1	83.9	97.3	90.6
72.5°	631.0	597.5	275.2	43.6	30.2	30.2	33.6	43.6	63.8	73.8	67.1
75°	47.0	30.2	20.1	13.4	13.4	20.1	26.9	43.6	63.8	70.5	57.1
77.5°	3.4	6.7	3.4	3.4	10.1	20.1	30.2	53.7	83.9	87.3	63.8
80°	3.4	3.4	0.0	3.4	10.1	20.1	33.6	60.4	94.0	100.7	53.7
82.5°	0.0	0.0	0.0	3.4	13.4	26.9	40.3	63.8	87.3	107.4	57.1
85°	0.0	0.0	0.0	3.4	20.1	36.9	47.0	16.8	10.1	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°	8579.6	8579.6	8579.6	8579.6	8579.6	8579.6	8579.6	8579.6	8579.6	8579.6	8579.6
2.5°	7216.8	7129.5	7095.9	7126.1	7116.1	7106.0	7290.6	7250.3	7243.6	7304.0	7290.6
5°	5417.6	5263.2	5686.1	5515.0	5692.9	5800.3	5820.4	5830.5	5954.7	5823.8	5994.9
7.5°	3860.1	3900.4	3897.1	4011.2	4215.9	4397.2	4504.6	4420.7	4414.0	4397.2	4323.3
10°	3084.7	3014.3	3000.8	2974.0	3037.8	3192.2	3323.1	3219.0	3145.2	3245.9	3215.7
12.5°	2520.8	2423.5	2369.8	2262.4	2265.7	2369.8	2369.8	2369.8	2443.6	2500.7	2544.3
15°	1933.4	1852.9	1852.9	1745.5	1722.0	1725.3	1779.0	1785.7	1903.2	1936.8	1953.6
17.5°	1352.7	1309.1	1359.4	1403.1	1376.2	1382.9	1403.1	1409.8	1426.6	1413.1	1446.7
20°	1040.6	1033.8	1047.3	1124.5	1181.5	1215.1	1191.6	1158.0	1137.9	1090.9	1090.9
22.5°	882.8	896.2	919.7	983.5	1057.3	1077.5	1050.6	973.4	913.0	906.3	909.6
25°	785.5	798.9	835.8	876.1	916.4	949.9	923.1	866.0	832.4	802.2	802.2
27.5°	725.0	731.7	751.9	782.1	815.7	842.5	832.4	802.2	765.3	751.9	721.7
30°	678.0	688.1	711.6	718.3	748.5	762.0	745.2	738.5	715.0	698.2	688.1
32.5°	654.5	651.2	668.0	674.7	678.0	688.1	668.0	678.0	674.7	647.8	637.8
35°	493.4	520.3	563.9	600.8	610.9	624.3	621.0	607.6	570.6	540.4	503.5
37.5°	443.1	459.9	483.4	513.6	553.8	570.6	563.9	530.3	486.7	466.6	459.9
40°	409.5	419.6	439.7	459.9	500.1	530.3	506.9	476.6	443.1	426.3	416.2
42.5°	379.3	382.7	392.7	412.9	443.1	490.1	449.8	409.5	396.1	386.0	379.3
45°	345.7	345.7	359.2	369.2	402.8	446.4	406.2	369.2	362.5	355.8	352.4
47.5°	318.9	322.2	329.0	342.4	369.2	399.4	372.6	342.4	325.6	322.2	315.5
50°	285.3	288.7	302.1	315.5	349.1	365.9	349.1	315.5	298.7	288.7	288.7
52°	258.5	268.5	282.0	308.8	332.3	359.2	339.0	302.1	282.0	271.9	265.2
52.5°	255.1	261.8	275.2	305.5	332.3	355.8	335.7	298.7	275.2	268.5	261.8
55°	228.3	238.3	261.8	298.7	329.0	355.8	329.0	295.4	261.8	245.0	238.3
57.5°	218.2	224.9	255.1	302.1	325.6	355.8	329.0	295.4	261.8	231.6	224.9
60°	208.1	221.5	255.1	292.0	322.2	359.2	332.3	292.0	255.1	218.2	218.2
62.5°	198.0	208.1	251.7	285.3	308.8	345.7	318.9	285.3	245.0	208.1	204.8
65°	171.2	188.0	221.5	238.3	265.2	298.7	271.9	248.4	214.8	184.6	181.3
67.5°	130.9	137.6	164.5	184.6	201.4	231.6	218.2	188.0	164.5	141.0	141.0
70°	90.6	97.3	117.5	127.6	144.3	161.1	151.0	127.6	110.8	97.3	94.0
72.5°	63.8	67.1	73.8	80.6	87.3	94.0	90.6	73.8	63.8	60.4	57.1
75°	50.3	57.1	60.4	57.1	53.7	50.3	50.3	43.6	36.9	33.6	33.6
77.5°	50.3	53.7	50.3	43.6	36.9	33.6	30.2	26.9	20.1	16.8	20.1
80°	43.6	43.6	43.6	36.9	33.6	30.2	26.9	23.5	20.1	16.8	16.8
82.5°	47.0	47.0	43.6	36.9	36.9	30.2	30.2	26.9	23.5	16.8	16.8
85°	0.0	0.0	0.0	6.7	16.8	30.2	30.2	26.9	23.5	20.1	20.1
87.5°	0.0	0.0	0.0	0.0	3.4	6.7	13.4	16.8	20.1	20.1	20.1
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°	8579.6	8579.6	8579.6	8579.6	8579.6	8579.6	8579.6	8579.6	8579.6	8579.6	8579.6
2.5°	7411.4	7539.0	7780.7	8022.4	8170.0	8344.6	8660.1	8827.9	9046.1	9153.5	9365.0
5°	5971.5	6273.6	6381.0	6656.2	6951.6	7247.0	7716.9	8233.8	8663.5	8958.9	9341.5
7.5°	4356.9	4427.4	4843.6	5028.2	5511.6	6048.7	6689.8	7341.0	7884.7	8368.1	8660.1
10°	3266.0	3524.5	3786.3	4138.7	4528.1	5081.9	5696.2	6414.5	7119.4	7602.8	7972.0
12.5°	2624.9	2829.6	3178.7	3558.0	4038.0	4403.9	5021.5	5733.1	6646.1	7119.4	7606.1
15°	1987.1	2248.9	2645.0	3037.8	3544.6	3930.6	4555.0	5451.2	6626.0	7277.2	7696.8
17.5°	1473.6	1651.5	2007.3	2447.0	2963.9	3507.7	4350.2	5421.0	6850.9	7626.3	8059.3
20°	1127.8	1188.2	1413.1	1805.9	2366.4	3078.0	4017.9	5551.9	7515.5	8475.5	8915.2
22.5°	913.0	939.9	1027.1	1299.0	1842.8	2702.1	3860.1	5642.5	8264.0	9492.6	10080.0
25°	795.5	788.8	845.9	963.4	1440.0	2349.6	3658.7	5984.9	9180.4	10687.5	11214.5
27.5°	725.0	725.0	751.9	835.8	1195.0	2121.4	3531.2	6229.9	10103.5	11738.2	12023.5
30°	688.1	694.8	772.0	798.9	993.6	1849.5	3319.7	6478.3	10986.3	12409.5	12802.2
32.5°	637.8	610.9	594.1	661.3	835.8	1604.5	3108.2	6582.4	11701.2	13231.9	13567.5
35°	490.1	476.6	496.8	547.1	718.3	1396.4	2873.3	6699.8	12523.6	14185.1	14252.3
37.5°	443.1	439.7	453.1	496.8	604.2	1215.1	2705.4	6669.6	13151.3	14973.9	14792.7
40°	409.5	409.5	419.6	456.5	540.4	1087.5	2530.9	6642.8	13758.8	15860.1	15329.8
42.5°	382.7	382.7	399.4	422.9	513.6	1003.6	2400.0	6605.9	14269.1	16403.9	15645.3
45°	345.7	355.8	382.7	406.2	520.3	946.6	2302.7	6464.9	14443.6	16397.2	15494.2
47.5°	318.9	332.3	359.2	392.7	469.9	929.8	2235.5	6340.7	14383.2	15994.4	15020.9
50°	288.7	305.5	342.4	399.4	399.4	896.2	2165.0	6451.5	14339.5	15682.2	14567.8
52°	268.5	282.0	329.0	389.4	349.1	825.7	2121.4	6666.3	14517.4	15641.9	14366.4
52.5°	265.2	275.2	318.9	382.7	332.3	812.3	2091.2	6716.6	14574.5	15541.2	14504.0
55°	235.0	248.4	292.0	298.7	271.9	668.0	1993.8	6830.8	14292.6	15343.2	14373.1
57.5°	221.5	228.3	258.5	245.0	235.0	503.5	1715.2	6652.9	12694.8	13627.9	13372.8
60°	204.8	211.5	241.7	191.3	198.0	352.4	1288.9	5776.8	10194.1	11355.5	11815.4
62.5°	198.0	194.7	228.3	154.4	167.8	255.1	909.6	4695.9	7854.5	9348.2	10143.8
65°	174.5	171.2	164.5	130.9	144.3	198.0	543.8	3064.6	5535.1	7072.4	7508.8
67.5°	134.3	141.0	120.8	104.1	120.8	154.4	302.1	1372.9	2903.5	4242.8	4595.2
70°	94.0	100.7	97.3	90.6	107.4	127.6	174.5	469.9	1201.7	2228.8	2457.1
72.5°	57.1	70.5	73.8	77.2	94.0	110.8	124.2	151.0	318.9	788.8	980.1
75°	33.6	47.0	57.1	67.1	77.2	94.0	104.1	107.4	110.8	147.7	238.3
77.5°	23.5	33.6	50.3	63.8	77.2	94.0	110.8	117.5	110.8	104.1	110.8
80°	20.1	33.6	47.0	60.4	80.6	97.3	110.8	110.8	107.4	94.0	100.7
82.5°	20.1	33.6	50.3	63.8	77.2	94.0	107.4	110.8	100.7	94.0	97.3
85°	23.5	36.9	53.7	67.1	83.9	77.2	70.5	57.1	53.7	43.6	47.0
87.5°	23.5	33.6	33.6	36.9	40.3	40.3	40.3	36.9	30.2	26.9	26.9
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: P529641

CATALOG NUMBER: GALN-SA4D-740-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8579.6	8579.6	8579.6	8579.6	8579.6	8579.6	8579.6	8579.6	8579.6	8579.6
2.5°	9375.1	9643.6	9633.5	9640.3	9600.0	9328.1	9197.2	8864.9	8958.9	8918.6
5°	9734.2	9999.4	10227.7	10200.8	9892.0	9522.8	8975.6	8458.7	8317.7	8109.6
7.5°	9375.1	10012.8	10224.3	10194.1	9737.6	9264.3	8391.6	7874.7	7629.6	7492.0
10°	8804.5	9542.9	9804.7	9858.4	9549.6	8831.3	8029.1	7200.0	7069.1	6830.8
12.5°	8478.9	9015.9	9177.0	9321.4	9214.0	8676.9	7753.8	6958.3	6777.0	6619.3
15°	8213.7	8532.6	8599.7	8764.2	8827.9	8539.3	7898.2	7220.1	6773.7	6756.9
17.5°	8458.7	8327.8	8082.8	8133.1	8334.5	8542.6	8270.7	7737.0	7304.0	7250.3
20°	8864.9	8287.5	7733.7	7857.9	8025.7	8663.5	8834.7	8458.7	8210.3	8072.7
22.5°	9331.4	8358.0	7622.9	7683.3	8002.2	8935.4	9747.7	9539.6	9076.3	8878.3
25°	10194.1	8552.7	7710.2	7750.5	8186.8	9314.7	10573.4	10727.8	10452.6	10412.3
27.5°	11036.6	9056.2	7901.5	7810.9	8280.8	9683.9	11073.5	11902.6	11419.3	11325.3
30°	11466.3	9465.7	8186.8	8032.4	8670.2	9908.8	11375.6	12667.9	12245.0	12201.4
32.5°	12124.2	9838.3	8408.4	8210.3	8888.4	10187.4	11939.6	13503.7	13094.2	12876.1
35°	12399.4	10244.4	8895.1	8663.5	9512.7	10576.8	12228.2	14248.9	14121.4	13909.9
37.5°	12929.8	10680.8	9469.1	9455.6	10267.9	11083.6	12748.5	15262.6	15239.1	14873.2
40°	12973.4	11157.5	10375.4	10798.3	11436.1	11966.4	13205.0	15544.6	15927.2	15678.8
42.5°	13040.5	11993.3	11942.9	12292.0	12839.1	12725.0	13221.8	15611.7	16195.8	16048.1
45°	13070.7	12829.1	13537.3	14181.8	14410.0	13718.6	13064.0	15484.2	16336.7	15967.5
47.5°	12829.1	13547.4	14826.3	16071.6	16138.7	14329.5	12996.9	15353.2	16420.7	16175.6
50°	12862.6	13997.2	15940.7	17055.1	16810.0	14869.9	12892.8	15272.7	16377.0	16212.5
52°	12782.1	14007.2	16098.4	17034.9	16863.7	14571.2	12714.9	14963.9	16336.7	16454.2
52.5°	12872.7	13946.8	15933.9	17048.3	16826.8	14718.8	12691.4	15135.1	16360.2	16121.9
55°	12560.5	13228.5	14970.6	15443.9	15410.3	13359.4	11969.8	14567.8	15746.0	15749.3
57.5°	11352.1	11466.3	11741.5	11731.4	11577.0	10502.9	10237.7	13396.3	14037.4	13688.4
60°	10002.8	8394.9	7653.1	7351.0	7179.8	7005.3	9056.2	12255.1	12315.5	12167.8
62.5°	8643.3	5820.4	4833.6	4749.6	4789.9	5427.7	8754.1	11801.9	11439.4	11120.5
65°	6975.1	4242.8	3511.0	3400.3	3793.0	4481.1	7085.9	9049.5	8492.3	8227.1
67.5°	4380.4	3094.8	2373.1	2165.0	2638.3	3084.7	4655.7	5686.1	5061.8	4695.9
70°	2598.0	1728.7	1074.1	963.4	1084.2	1644.8	2608.1	2836.4	2346.3	2158.3
72.5°	1023.8	634.4	298.7	255.1	265.2	577.3	960.0	936.5	708.2	631.0
75°	275.2	191.3	104.1	83.9	70.5	107.4	154.4	100.7	36.9	47.0
77.5°	127.6	114.1	90.6	70.5	53.7	40.3	20.1	6.7	6.7	3.4
80°	110.8	97.3	83.9	70.5	53.7	33.6	16.8	3.4	3.4	3.4
82.5°	104.1	90.6	77.2	63.8	50.3	33.6	16.8	3.4	0.0	0.0
85°	43.6	57.1	63.8	60.4	53.7	33.6	16.8	3.4	0.0	0.0
87.5°	23.5	20.1	16.8	13.4	10.1	6.7	6.7	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)