

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: P529639

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529639
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)
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-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT 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

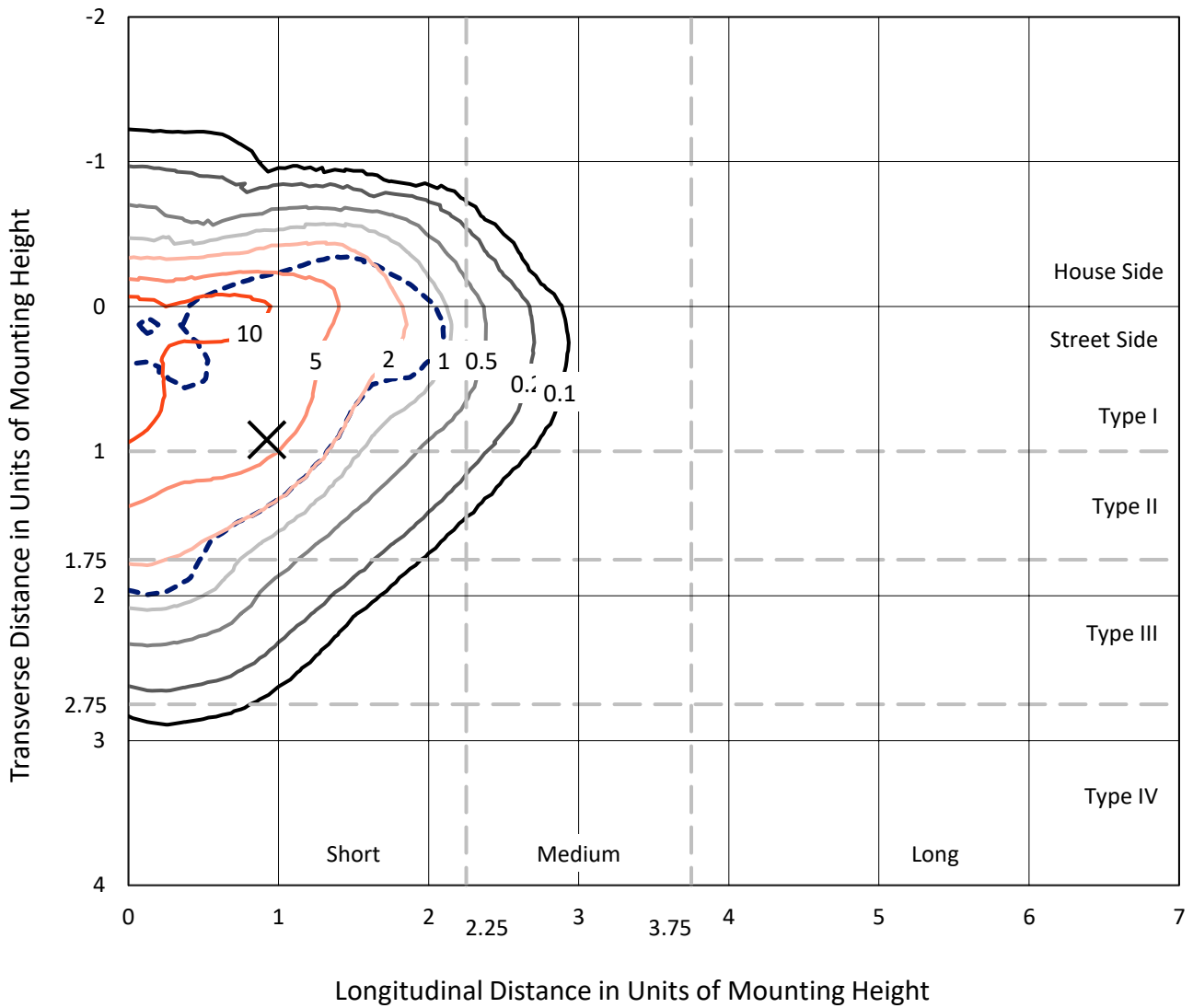
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

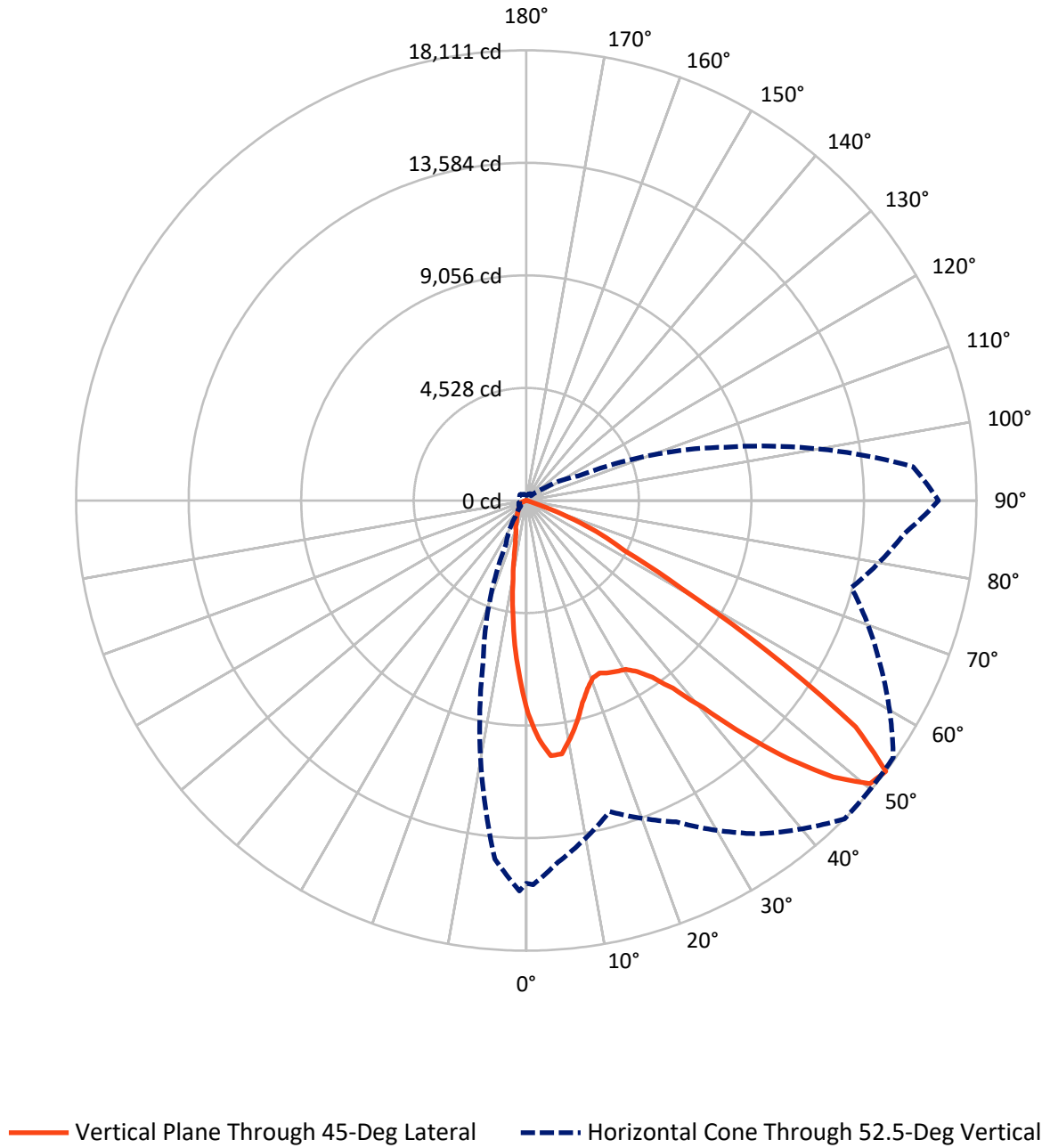
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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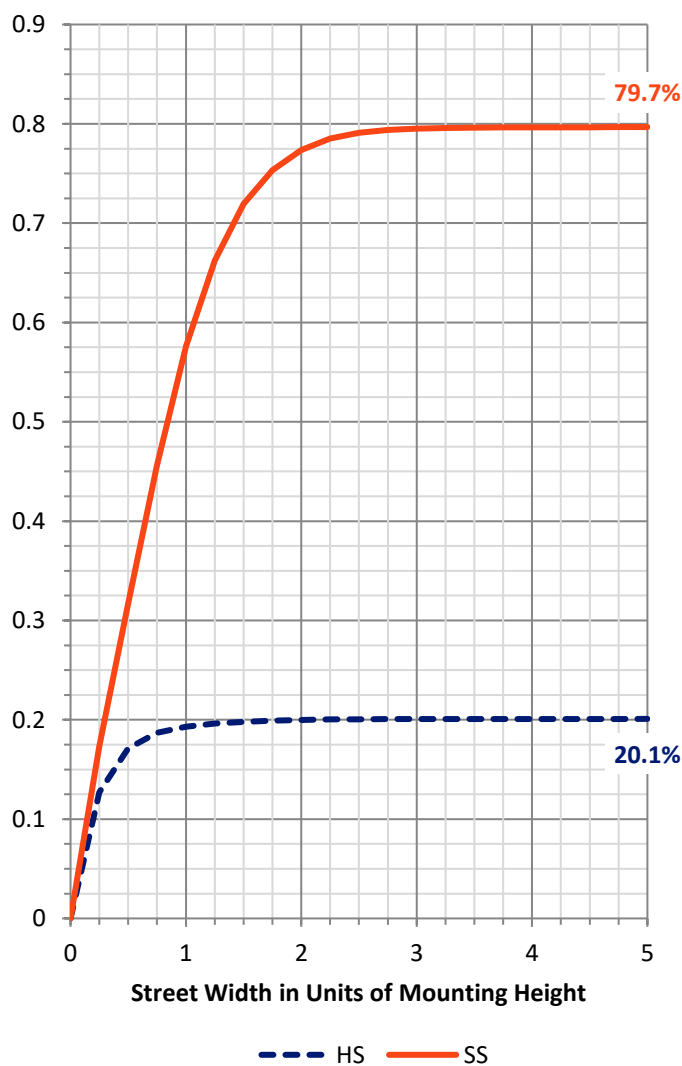
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3433.5	0.0	3433.5
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	13484.5	0.0	13484.5
	% Fixture	79.7	0.0	79.7
Total	Lumens	16918.0	0.0	16918.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	625.6	3.7
10°-20°	1234.3	7.3
20°-30°	1878.4	11.1
30°-40°	2807.4	16.6
40°-50°	3998.1	23.6
50°-60°	4297.8	25.4
60°-70°	1904.4	11.3
70°-80°	154.1	0.9
80°-90°	18.0	0.1
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



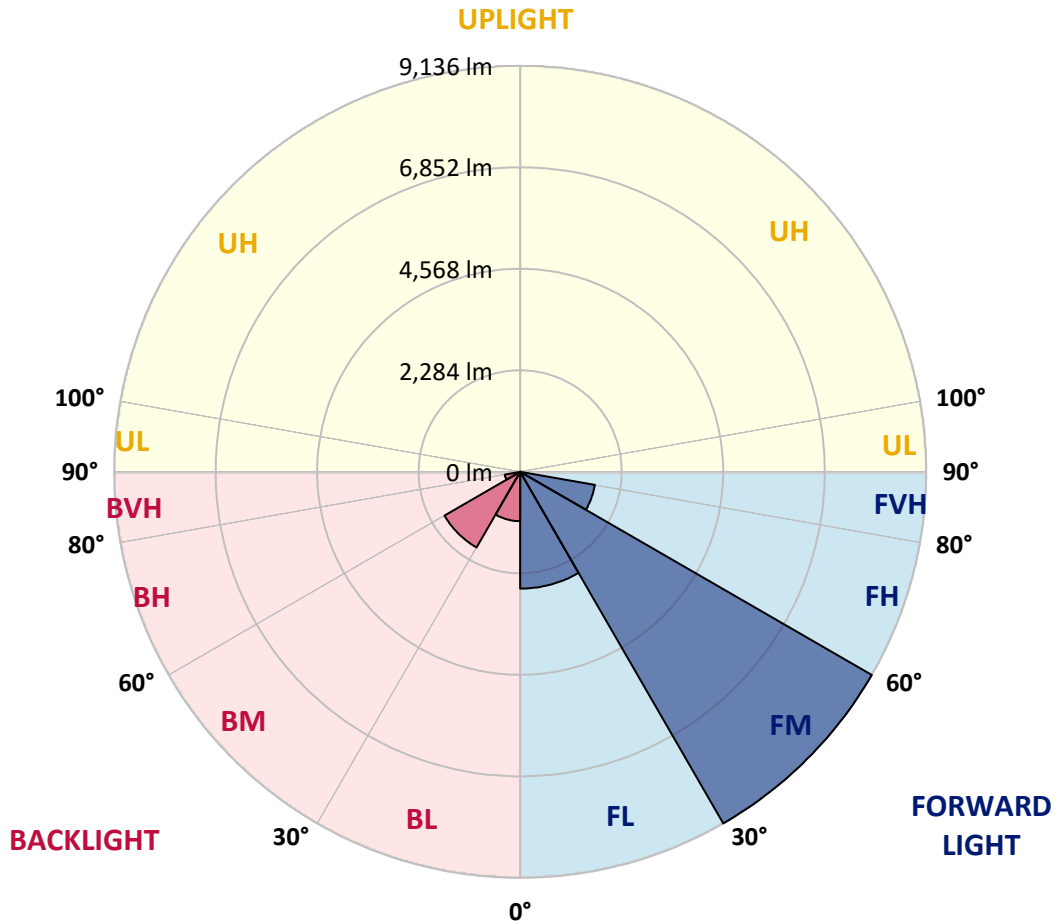
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2627.7	15.5			
FM (30°-60°)	9136.2	54.0			
FH (60°-80°)	1707.2	10.1			G1/1800
FVH (80°-90°)	13.3	0.1			G1/100
BL (0°-30°)	1110.5	6.6	B3/2500		
BM (30°-60°)	1967.0	11.6	B2/2500		
BH (60°-80°)	351.3	2.1	B1/500		G1/500
BVH (80°-90°)	4.7	0.0			G0/10
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°	8578.2	8578.2	8578.2	8578.2	8578.2	8578.2	8578.2	8578.2	8578.2	8578.2	8578.2
2.5°	9077.3	9104.0	9250.4	9433.4	9529.9	9749.5	9596.4	9636.3	9553.2	9260.3	9030.7
5°	8801.2	8797.8	8984.2	9436.7	9865.9	10301.8	10315.2	10082.2	9672.9	9223.7	8581.5
7.5°	7969.3	8099.1	8292.1	9014.1	9809.4	10135.5	10291.9	10019.0	9390.1	8747.9	8052.5
10°	7340.4	7406.9	7733.0	8604.8	9187.1	9623.0	9719.5	9563.1	9080.7	8278.7	7500.1
12.5°	6977.7	7011.0	7393.6	8125.7	8741.3	9064.0	9110.6	9183.8	8837.8	8085.7	7150.7
15°	6981.0	7007.6	7523.4	8135.7	8378.6	8292.1	8445.1	8441.8	8591.5	8049.1	7443.5
17.5°	7483.5	7513.4	7979.3	8282.1	8175.6	7972.6	7962.6	8115.7	8431.8	8505.0	7886.1
20°	8348.6	8418.5	8761.2	8744.6	8145.6	7736.4	7623.2	7739.7	8475.1	8891.0	8777.9
22.5°	9513.2	9609.7	9849.3	9390.1	8282.1	7576.6	7540.0	7766.3	8761.2	9752.8	9789.4
25°	10864.2	11027.2	11143.7	10554.7	8767.9	7852.8	7679.8	8069.1	9147.2	10687.8	11077.1
27.5°	11759.3	11929.0	11902.4	11060.5	9094.0	7926.0	7779.6	8142.3	9483.3	10910.8	11749.3
30°	12458.0	12561.2	12747.5	11333.4	9420.1	8132.3	7882.8	8451.8	9593.1	11296.8	12561.2
32.5°	13273.3	13343.1	13356.5	11815.8	9922.5	8391.9	8202.2	8837.8	10078.9	11666.1	13279.9
35°	14095.2	14198.3	13982.0	12411.5	10232.0	8874.4	8734.6	9506.6	10468.2	12048.8	14071.9
37.5°	14986.9	15040.2	14541.0	12657.7	10674.5	9659.6	9583.1	10228.6	11143.7	12740.9	14950.3
40°	15735.6	15785.5	15136.7	12960.5	11140.4	10757.7	10954.0	11606.2	12062.1	13190.1	15389.5
42.5°	16151.5	16268.0	15336.3	12794.1	12075.4	12002.2	12874.0	13103.6	13126.9	13316.5	15782.2
45°	16264.7	16211.4	15006.9	12930.5	12893.9	14048.6	14840.5	15143.3	14185.0	13549.4	15882.0
47.5°	15742.3	15812.1	14521.1	12810.8	13968.7	15599.2	16624.0	17186.4	14973.6	13346.5	15635.8
50°	15319.7	15229.8	14364.7	12724.2	14258.2	16331.2	17911.8	18038.2	15699.0	13596.0	15366.2
52.5°	15402.8	15459.4	14614.2	12953.8	14264.9	16374.5	18111.4	18024.9	15722.3	13539.5	15269.8
55°	15579.2	15329.6	14507.8	12448.1	13309.9	15166.6	16075.0	15941.9	14511.1	12937.2	15033.5
57.5°	13443.0	13829.0	13339.8	11113.7	10924.1	11426.5	11409.9	11819.2	10824.3	11133.7	13685.9
60°	10910.8	10977.3	11160.3	9506.6	7560.0	7387.0	7147.4	6887.9	7283.8	9519.9	12448.1
62.5°	9596.4	9516.6	10168.7	8648.1	5337.3	4468.8	4428.9	4588.6	5620.1	9080.7	11676.1
65°	6974.4	7074.2	7546.7	6711.5	4006.3	3410.7	3350.8	3823.3	4548.6	7277.2	8911.0
67.5°	4259.2	4452.2	4495.4	4139.4	2718.5	2159.5	2073.0	2502.3	3284.2	4708.4	5224.1
70°	1966.5	2199.5	2419.1	2259.4	1573.9	888.4	838.5	1051.5	1657.1	2708.6	2771.8
72.5°	595.6	598.9	838.5	875.1	509.1	199.6	176.4	232.9	562.3	895.1	941.7
75°	43.3	46.6	113.1	129.8	96.5	49.9	53.2	63.2	119.8	199.6	149.7
77.5°	3.3	3.3	3.3	16.6	29.9	33.3	43.3	49.9	63.2	73.2	66.5
80°	3.3	0.0	3.3	13.3	23.3	33.3	39.9	46.6	49.9	56.6	49.9
82.5°	0.0	0.0	0.0	10.0	23.3	33.3	36.6	49.9	56.6	66.5	56.6
85°	0.0	0.0	0.0	10.0	23.3	36.6	33.3	16.6	0.0	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°	8578.2	8578.2	8578.2	8578.2	8578.2	8578.2	8578.2	8578.2	8578.2	8578.2	8578.2
2.5°	9070.7	8940.9	8644.8	8495.0	8142.3	8092.4	7746.3	7689.8	7573.3	7510.1	7357.0
5°	8298.7	8142.3	7659.8	7253.9	6781.4	6452.0	6199.1	5969.5	5836.4	5713.3	5769.8
7.5°	7669.8	7214.0	6678.2	5999.4	5453.7	5101.0	4715.0	4398.9	4212.6	4086.1	4116.1
10°	7011.0	6714.8	5969.5	5207.5	4548.6	4299.1	3996.3	3753.4	3490.5	3264.2	3157.8
12.5°	6804.7	6365.4	5430.4	4655.1	4156.0	3913.1	3567.0	3287.5	2951.5	2675.3	2578.8
15°	6841.3	6418.7	5284.0	4455.5	3866.5	3447.3	3034.7	2688.6	2319.2	2126.3	2026.4
17.5°	7436.9	6704.8	5380.5	4245.8	3463.9	2881.6	2372.5	1933.3	1657.1	1457.4	1414.2
20°	8168.9	7323.8	5586.8	4092.8	3134.5	2292.6	1733.6	1354.3	1124.7	1091.4	1081.4
22.5°	9240.4	8335.3	6029.4	3989.6	2731.9	1786.9	1187.9	984.9	921.7	915.1	918.4
25°	10737.7	9603.1	6511.9	3903.1	2429.1	1377.6	971.6	835.2	815.2	805.2	821.9
27.5°	11386.6	10368.4	6768.1	3716.8	2152.9	1241.1	958.3	828.5	772.0	755.3	765.3
30°	12188.5	10877.5	7170.7	3397.3	1746.9	1021.5	895.1	901.7	875.1	791.9	765.3
32.5°	13253.3	11513.0	7373.7	3171.1	1560.6	845.2	655.5	602.3	672.1	685.5	708.8
35°	13935.4	12158.6	7476.8	3038.0	1464.1	722.1	555.7	505.8	489.1	492.5	505.8
37.5°	15203.2	13030.4	7606.6	2898.2	1390.9	628.9	502.4	455.9	432.6	432.6	445.9
40°	15961.9	13722.5	7782.9	2821.7	1317.7	572.3	455.9	415.9	396.0	396.0	402.6
42.5°	16151.5	14065.2	7723.1	2795.1	1234.5	559.0	415.9	386.0	362.7	359.4	356.0
45°	16490.9	14587.6	7733.0	2765.1	1148.0	509.1	392.6	359.4	326.1	322.8	319.4
47.5°	16863.6	14963.6	7753.0	2648.7	1064.8	425.9	409.3	332.7	292.8	286.2	286.2
50°	16544.2	15263.1	7926.0	2532.2	958.3	346.1	402.6	312.8	259.5	249.6	252.9
52.5°	16584.1	15615.8	8292.1	2369.2	825.2	276.2	326.1	296.1	236.3	219.6	222.9
55°	15945.2	15243.1	8342.0	2196.1	645.5	213.0	249.6	259.5	199.6	193.0	193.0
57.5°	13725.8	12907.2	7360.4	1780.2	425.9	176.4	179.7	226.3	173.0	166.4	169.7
60°	11746.0	10361.7	5922.9	1174.6	266.2	139.8	129.8	229.6	153.1	149.7	159.7
62.5°	10707.8	8515.0	4492.1	728.7	183.0	106.5	89.8	186.3	133.1	133.1	146.4
65°	7736.4	5719.9	2612.1	382.7	129.8	83.2	66.5	106.5	109.8	113.1	119.8
67.5°	4791.6	2888.2	1101.4	186.3	86.5	56.6	43.3	66.5	73.2	73.2	79.9
70°	2365.8	1151.3	366.0	106.5	66.5	46.6	29.9	36.6	36.6	33.3	36.6
72.5°	732.0	346.1	93.2	66.5	46.6	29.9	16.6	13.3	6.7	0.0	3.3
75°	83.2	66.5	59.9	46.6	29.9	13.3	3.3	0.0	0.0	0.0	0.0
77.5°	49.9	56.6	56.6	46.6	29.9	10.0	0.0	0.0	0.0	0.0	0.0
80°	39.9	43.3	46.6	43.3	26.6	13.3	0.0	0.0	0.0	0.0	0.0
82.5°	49.9	56.6	63.2	56.6	36.6	16.6	6.7	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	10.0	3.3	0.0	0.0	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	8578.2	8578.2	8578.2	8578.2	8578.2	8578.2	8578.2	8578.2	8578.2	8578.2	8578.2
2.5°	7293.8	7220.6	7323.8	7170.7	7167.4	7170.7	7127.4	7087.5	7150.7	7320.4	7337.1
5°	5566.9	5723.2	5773.2	5936.2	5846.4	5713.3	5739.9	5650.0	5869.7	5966.2	5889.6
7.5°	4052.9	4042.9	4378.9	4398.9	4442.2	4445.5	4438.8	4262.5	4082.8	4122.7	4242.5
10°	3144.5	2974.8	3137.8	3121.2	3227.6	3197.7	3241.0	3051.3	3114.5	3114.5	3191.0
12.5°	2562.2	2382.5	2352.5	2309.3	2352.5	2369.2	2385.8	2349.2	2455.7	2505.6	2558.8
15°	1956.6	1856.7	1830.1	1746.9	1760.2	1806.8	1846.7	1863.4	1830.1	1906.6	1913.3
17.5°	1420.8	1417.5	1434.1	1430.8	1417.5	1407.5	1404.2	1360.9	1347.6	1354.3	1380.9
20°	1078.1	1104.7	1161.3	1217.9	1247.8	1211.2	1161.3	1088.1	1058.1	1064.8	1068.1
22.5°	921.7	961.6	1038.2	1101.4	1131.3	1064.8	974.9	911.7	898.4	895.1	891.8
25°	835.2	881.8	938.3	958.3	955.0	915.1	848.5	821.9	815.2	808.6	778.6
27.5°	788.6	805.2	815.2	838.5	848.5	821.9	805.2	765.3	758.7	758.7	738.7
30°	762.0	752.0	765.3	748.7	762.0	742.0	745.4	745.4	728.7	735.4	735.4
32.5°	708.8	712.1	712.1	678.8	688.8	665.5	688.8	708.8	712.1	715.4	742.0
35°	519.1	579.0	608.9	608.9	618.9	602.3	598.9	575.7	545.7	515.8	502.4
37.5°	455.9	479.2	519.1	542.4	559.0	545.7	515.8	479.2	462.5	449.2	435.9
40°	406.0	425.9	452.5	479.2	512.4	495.8	449.2	432.6	412.6	412.6	399.3
42.5°	366.0	376.0	392.6	432.6	469.2	435.9	402.6	389.3	379.3	376.0	372.7
45°	329.4	332.7	349.4	382.7	425.9	392.6	359.4	342.7	346.1	349.4	346.1
47.5°	296.1	302.8	312.8	352.7	379.3	362.7	326.1	316.1	316.1	316.1	319.4
50°	256.2	272.9	292.8	326.1	346.1	336.1	306.1	292.8	286.2	286.2	289.5
52.5°	229.6	242.9	269.5	309.5	336.1	319.4	289.5	269.5	256.2	252.9	259.5
55°	199.6	222.9	266.2	296.1	332.7	316.1	282.8	259.5	236.3	232.9	232.9
57.5°	179.7	216.3	256.2	292.8	322.8	309.5	282.8	252.9	222.9	219.6	219.6
60°	169.7	209.6	249.6	282.8	322.8	302.8	279.5	246.2	213.0	213.0	209.6
62.5°	159.7	196.3	236.3	269.5	309.5	292.8	269.5	236.3	203.0	203.0	196.3
65°	133.1	169.7	196.3	226.3	269.5	252.9	229.6	206.3	179.7	173.0	176.4
67.5°	93.2	116.5	143.1	173.0	199.6	193.0	183.0	166.4	143.1	139.8	136.4
70°	46.6	63.2	86.5	116.5	139.8	133.1	126.4	113.1	99.8	96.5	96.5
72.5°	6.7	20.0	36.6	53.2	73.2	76.5	73.2	69.9	66.5	63.2	66.5
75°	0.0	0.0	0.0	13.3	29.9	36.6	43.3	49.9	49.9	43.3	53.2
77.5°	0.0	0.0	0.0	0.0	3.3	16.6	33.3	43.3	53.2	46.6	63.2
80°	0.0	0.0	0.0	0.0	3.3	20.0	33.3	46.6	53.2	46.6	66.5
82.5°	0.0	0.0	0.0	0.0	3.3	23.3	33.3	43.3	49.9	46.6	59.9
85°	0.0	0.0	0.0	0.0	10.0	20.0	13.3	6.7	3.3	3.3	10.0
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



REPORT NUMBER: P529639

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

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8578.2	8578.2	8578.2	8578.2	8578.2	8578.2	8578.2	8578.2	8578.2	8578.2
2.5°	7430.2	7666.5	7919.4	8015.9	8315.3	8541.6	8694.7	9024.1	9074.0	9077.3
5°	5969.5	6089.3	6521.8	6724.8	7170.7	7516.8	7886.1	8418.5	8774.5	8801.2
7.5°	4242.5	4575.3	4758.3	5287.3	5836.4	6378.8	6927.8	7546.7	7959.3	7969.3
10°	3414.0	3630.3	3956.4	4352.3	4814.8	5367.2	6099.2	6818.0	7237.2	7340.4
12.5°	2748.5	3127.8	3500.5	3909.8	4262.5	4678.4	5467.0	6425.3	6771.4	6977.7
15°	2116.3	2462.3	2901.6	3380.7	3780.0	4335.7	5234.1	6328.8	6911.2	6981.0
17.5°	1560.6	1870.0	2276.0	2728.5	3327.5	4116.1	5274.0	6818.0	7367.0	7483.5
20°	1121.4	1301.0	1620.5	2146.2	2908.2	3859.9	5314.0	7313.8	8149.0	8348.6
22.5°	888.4	961.6	1171.3	1637.1	2439.0	3590.3	5596.8	8262.1	9223.7	9513.2
25°	772.0	811.9	911.7	1291.1	2142.9	3563.7	6049.3	9400.1	10654.6	10864.2
27.5°	745.4	752.0	838.5	1184.6	1983.2	3387.4	6222.4	10208.7	11546.3	11759.3
30°	785.3	891.8	898.4	1001.6	1687.0	3038.0	6312.2	10990.6	12301.6	12458.0
32.5°	678.8	645.5	668.8	775.3	1484.1	2835.0	6481.9	11672.8	13163.5	13273.3
35°	472.5	495.8	549.0	672.1	1297.7	2622.0	6525.2	12424.8	13982.0	14095.2
37.5°	435.9	449.2	492.5	572.3	1141.3	2502.3	6465.3	12973.8	14830.5	14986.9
40°	406.0	422.6	445.9	519.1	1024.9	2369.2	6382.1	13469.6	15349.6	15735.6
42.5°	382.7	396.0	415.9	495.8	925.0	2236.1	6265.6	14168.4	15815.5	16151.5
45°	356.0	376.0	399.3	482.5	868.5	2146.2	6179.1	14125.1	16085.0	16264.7
47.5°	329.4	362.7	389.3	449.2	851.8	2103.0	6215.7	13962.1	15865.4	15742.3
50°	302.8	346.1	392.6	372.7	811.9	2016.4	6259.0	14185.0	15343.0	15319.7
52.5°	279.5	329.4	366.0	306.1	722.1	1933.3	6678.2	14477.8	15712.3	15402.8
55°	246.2	296.1	292.8	246.2	585.6	1870.0	7007.6	14484.5	15462.7	15579.2
57.5°	222.9	262.9	229.6	206.3	432.6	1563.9	6471.9	12145.3	13236.7	13443.0
60°	206.3	256.2	173.0	163.0	282.8	1128.0	5650.0	9406.8	10521.5	10910.8
62.5°	189.7	242.9	136.4	133.1	196.3	801.9	4645.1	7872.8	9067.4	9596.4
65°	166.4	173.0	109.8	103.2	139.8	432.6	2828.3	5420.4	6778.1	6974.4
67.5°	136.4	133.1	89.8	83.2	93.2	209.6	1247.8	2715.2	3929.7	4259.2
70°	109.8	109.8	76.5	66.5	66.5	96.5	326.1	1081.4	1776.9	1966.5
72.5°	79.9	83.2	59.9	53.2	49.9	46.6	53.2	216.3	465.8	595.6
75°	69.9	73.2	59.9	46.6	36.6	29.9	23.3	20.0	26.6	43.3
77.5°	76.5	76.5	63.2	43.3	33.3	23.3	13.3	6.7	6.7	3.3
80°	96.5	99.8	83.2	56.6	39.9	26.6	16.6	6.7	3.3	3.3
82.5°	103.2	113.1	93.2	69.9	49.9	29.9	16.6	3.3	0.0	0.0
85°	26.6	43.3	73.2	63.2	49.9	29.9	16.6	3.3	0.0	0.0
87.5°	0.0	3.3	10.0	10.0	13.3	13.3	10.0	3.3	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)