

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: P531979

Luminaire Tested: **GALN-SA7B-740-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531979
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-SA7B-740-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 800mA 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: 21911 lumens
Efficiency: N/A
Efficacy: 76.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

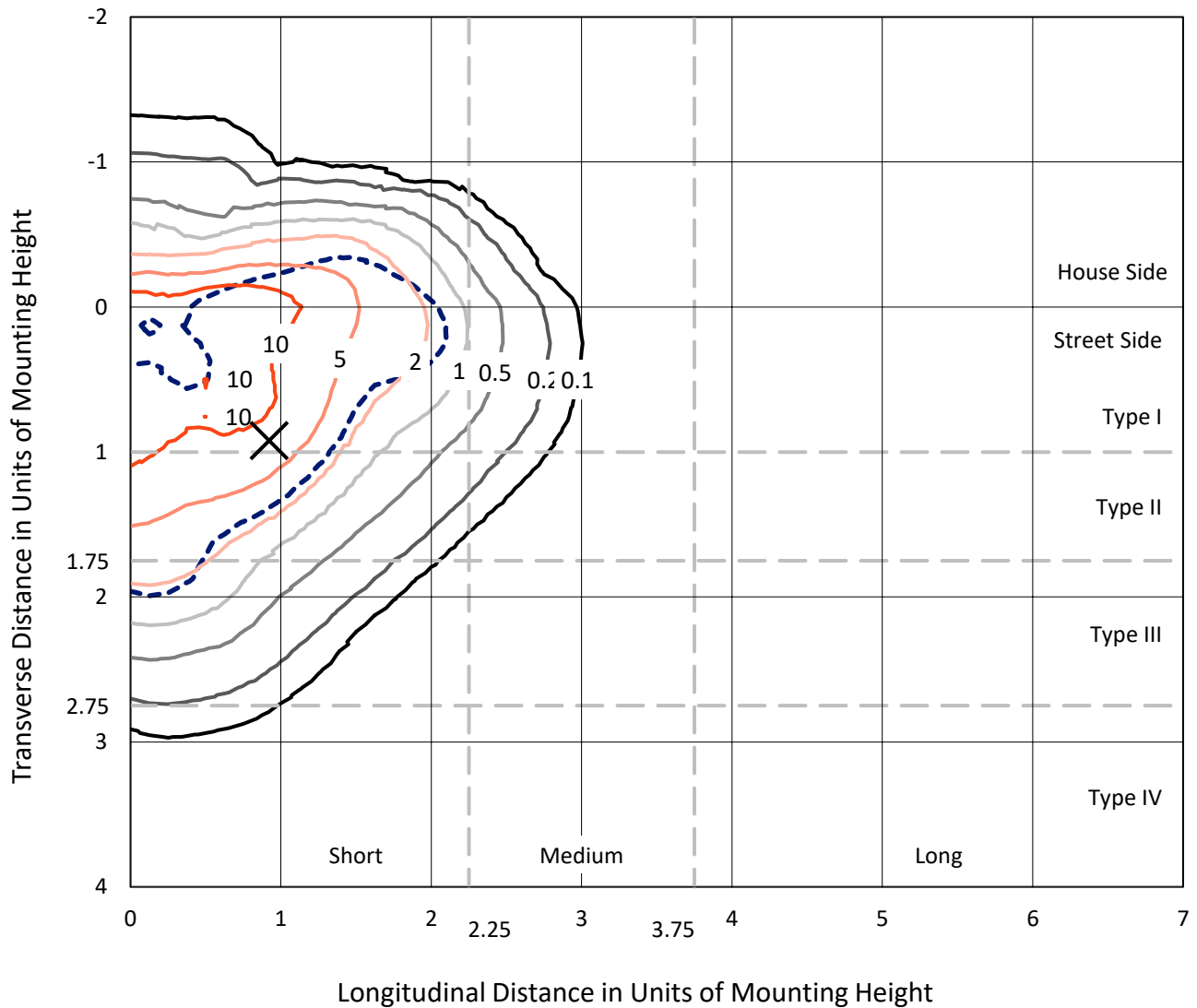
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

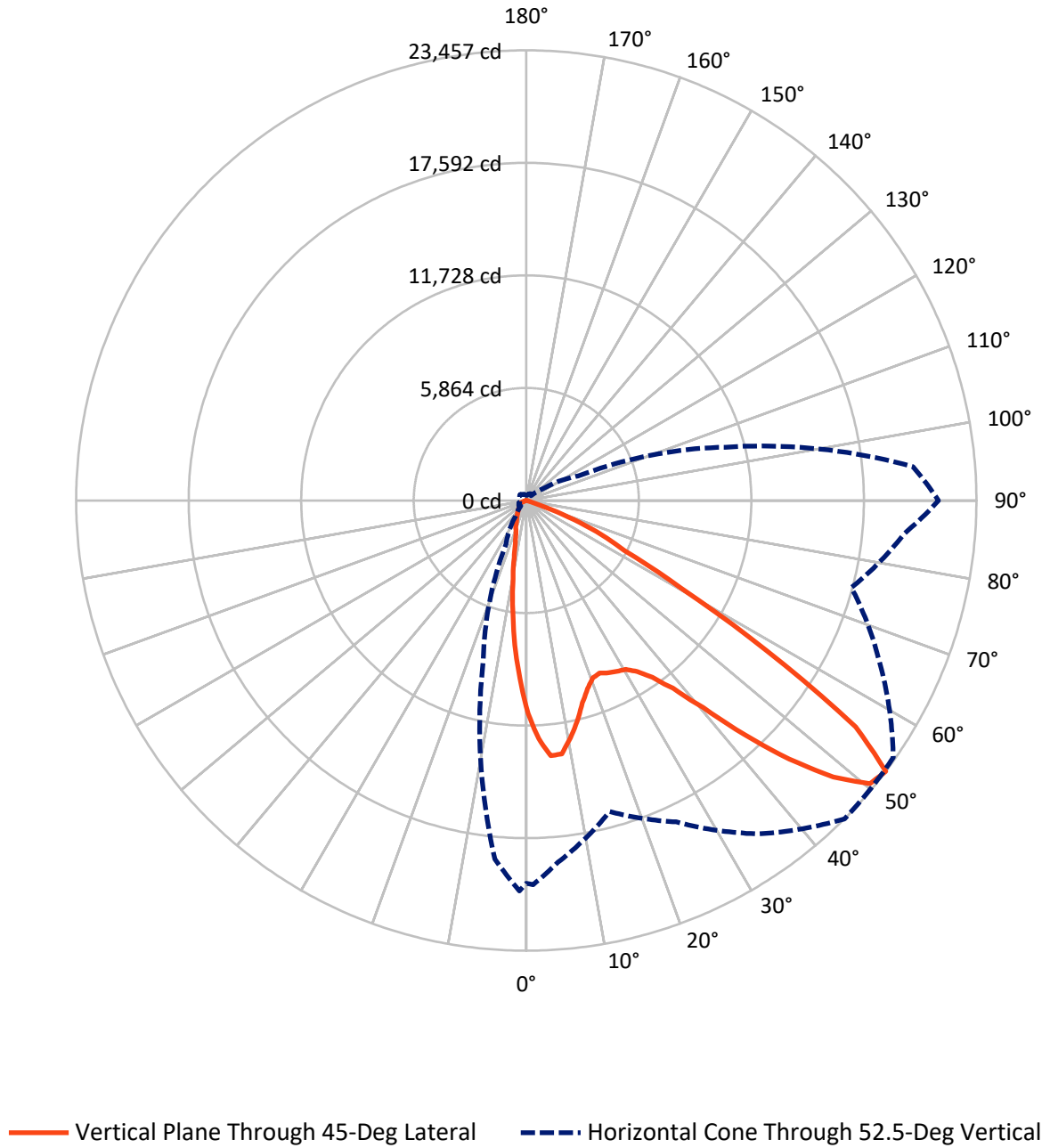
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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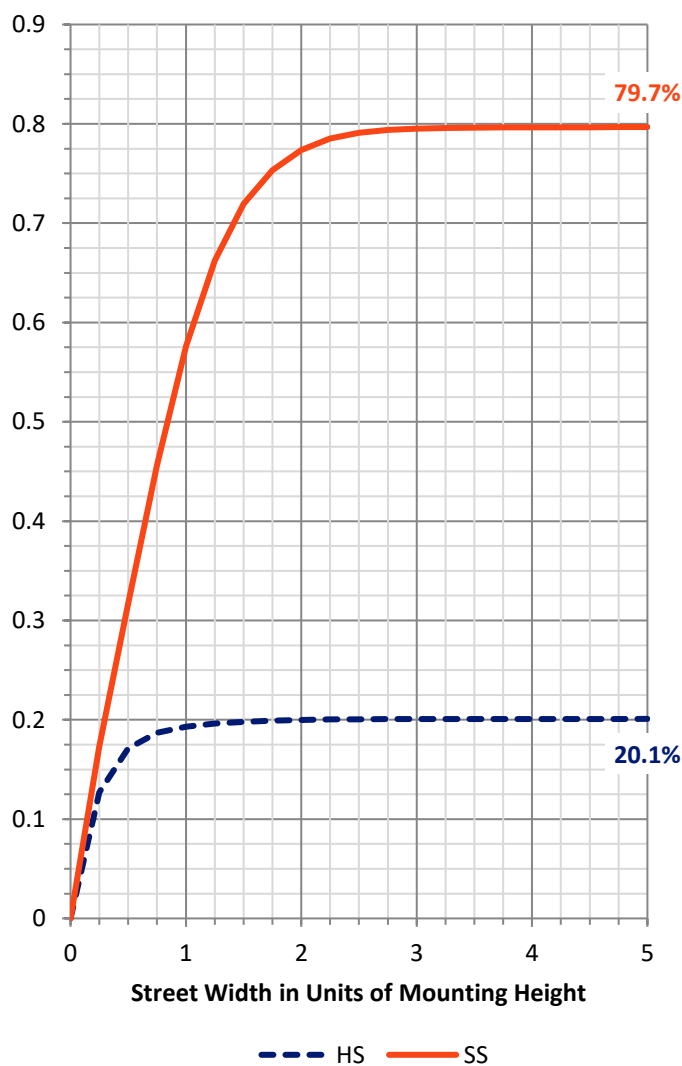
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4446.8	0.0	4446.8
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	17464.1	0.0	17464.1
	% Fixture	79.7	0.0	79.7
Total	Lumens	21911.0	0.0	21911.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	810.2	3.7
10°-20°	1598.6	7.3
20°-30°	2432.7	11.1
30°-40°	3636.0	16.6
40°-50°	5178.0	23.6
50°-60°	5566.2	25.4
60°-70°	2466.5	11.3
70°-80°	199.6	0.9
80°-90°	23.3	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°	21911.0	100.0
0°-180°	21911.0	100.0

Coefficient of Utilization



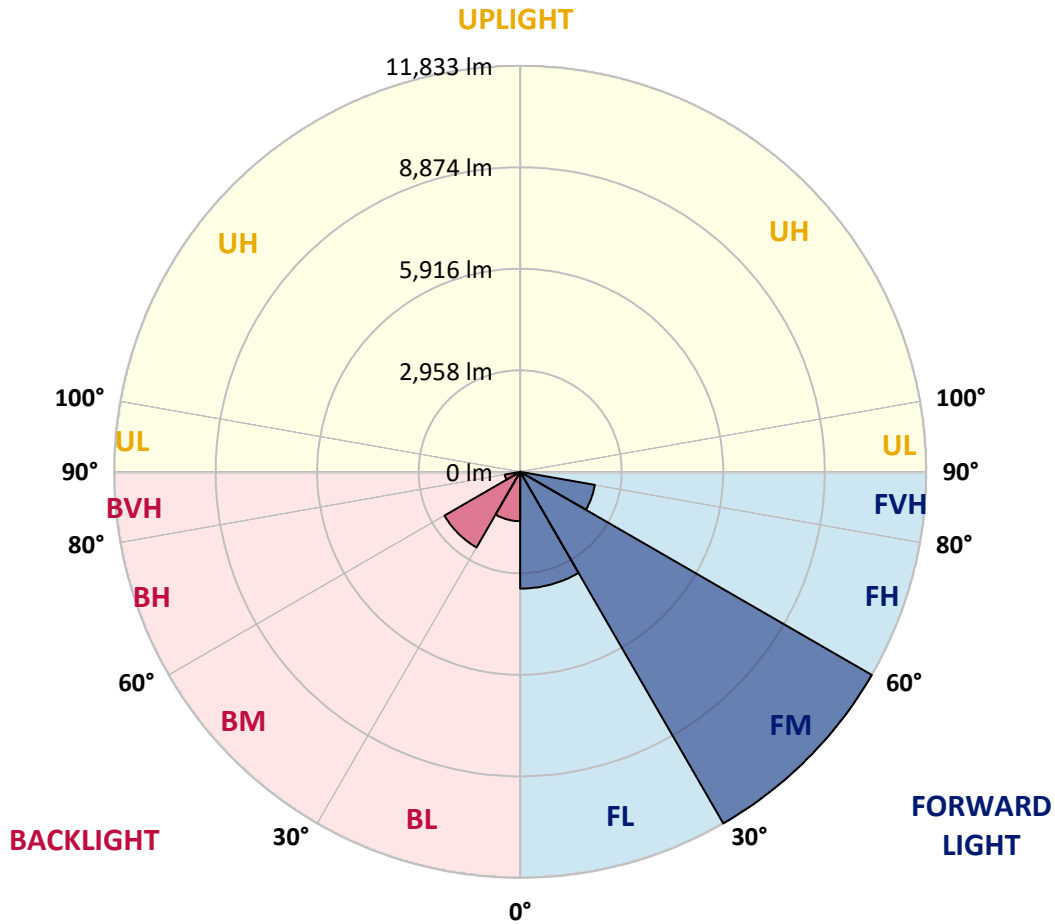
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3403.2	15.5			
FM (30°-60°)	11832.6	54.0			
FH (60°-80°)	2211.1	10.1			G2/5000
FVH (80°-90°)	17.2	0.1			G1/100
BL (0°-30°)	1438.3	6.6	B3/2500		
BM (30°-60°)	2547.5	11.6	B3/5000		
BH (60°-80°)	455.0	2.1	B1/500		G1/500
BVH (80°-90°)	6.0	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11109.9	11109.9	11109.9	11109.9	11109.9	11109.9	11109.9	11109.9	11109.9	11109.9	11109.9
2.5°	11756.3	11790.8	11980.4	12217.4	12342.4	12626.8	12428.6	12480.3	12372.6	11993.3	11696.0
5°	11398.6	11394.3	11635.7	12221.7	12777.7	13342.2	13359.5	13057.8	12527.7	11945.9	11114.2
7.5°	10321.3	10489.3	10739.3	11674.4	12704.4	13126.7	13329.3	12975.9	12161.4	11329.7	10429.0
10°	9506.8	9593.0	10015.3	11144.4	11898.5	12463.1	12588.1	12385.5	11760.6	10722.0	9713.6
12.5°	9037.0	9080.1	9575.7	10523.8	11321.1	11739.1	11799.4	11894.2	11446.0	10472.1	9261.1
15°	9041.3	9075.8	9743.8	10536.7	10851.3	10739.3	10937.5	10933.2	11127.1	10424.7	9640.4
17.5°	9692.1	9730.9	10334.2	10726.3	10588.4	10325.6	10312.6	10510.9	10920.3	11015.1	10213.5
20°	10812.5	10903.0	11346.9	11325.4	10549.7	10019.6	9873.1	10023.9	10976.3	11515.0	11368.5
22.5°	12320.9	12445.8	12756.1	12161.4	10726.3	9812.7	9765.3	10058.4	11346.9	12631.1	12678.6
25°	14070.5	14281.7	14432.5	13669.7	11355.5	10170.4	9946.3	10450.5	11846.8	13842.1	14346.3
27.5°	15229.8	15449.6	15415.1	14324.8	11777.9	10265.2	10075.6	10545.4	12282.1	14130.9	15216.9
30°	16134.8	16268.4	16509.7	14678.2	12200.2	10532.4	10209.2	10946.1	12424.3	14630.8	16268.4
32.5°	17190.6	17281.1	17298.3	15303.0	12850.9	10868.6	10622.9	11446.0	13053.5	15109.1	17199.2
35°	18255.0	18388.6	18108.5	16074.4	13251.7	11493.4	11312.4	12312.2	13557.7	15604.7	18224.9
37.5°	19410.0	19478.9	18832.5	16393.3	13824.9	12510.5	12411.4	13247.4	14432.5	16501.1	19362.6
40°	20379.6	20444.3	19603.9	16785.5	14428.2	13932.6	14186.9	15031.5	15621.9	17082.9	19931.4
42.5°	20918.3	21069.2	19862.5	16570.0	15639.2	15544.4	16673.5	16970.8	17001.0	17246.6	20440.0
45°	21064.8	20995.9	19435.9	16746.7	16699.3	18194.7	19220.4	19612.5	18371.4	17548.3	20569.3
47.5°	20388.3	20478.8	18806.7	16591.6	18091.3	20202.9	21530.3	22258.6	19392.8	17285.4	20250.3
50°	19840.9	19724.6	18604.1	16479.5	18466.2	21151.0	23198.0	23361.8	20332.2	17608.6	19901.3
52.5°	19948.7	20021.9	18927.3	16776.9	18474.8	21207.1	23456.6	23344.6	20362.4	17535.4	19776.3
55°	20177.1	19853.9	18789.4	16121.8	17238.0	19642.7	20819.2	20646.8	18793.7	16755.3	19470.3
57.5°	17410.4	17910.3	17276.8	14393.7	14148.1	14798.8	14777.3	15307.4	14018.8	14419.6	17725.0
60°	14130.9	14217.0	14454.1	12312.2	9791.2	9567.1	9256.8	8920.7	9433.5	12329.5	16121.8
62.5°	12428.6	12325.2	13169.8	11200.4	6912.4	5787.7	5735.9	5942.8	7278.7	11760.6	15122.0
65°	9032.7	9162.0	9773.9	8692.3	5188.6	4417.2	4339.7	4951.6	5891.1	9424.9	11540.8
67.5°	5516.2	5766.1	5822.1	5361.0	3520.9	2796.9	2684.8	3240.7	4253.5	6097.9	6765.9
70°	2546.9	2848.6	3133.0	2926.2	2038.4	1150.6	1086.0	1361.8	2146.1	3507.9	3589.8
72.5°	771.4	775.7	1086.0	1133.4	659.4	258.6	228.4	301.7	728.3	1159.3	1219.6
75°	56.0	60.3	146.5	168.1	125.0	64.6	69.0	81.9	155.1	258.6	193.9
77.5°	4.3	4.3	4.3	21.5	38.8	43.1	56.0	64.6	81.9	94.8	86.2
80°	4.3	0.0	4.3	17.2	30.2	43.1	51.7	60.3	64.6	73.3	64.6
82.5°	0.0	0.0	0.0	12.9	30.2	43.1	47.4	64.6	73.3	86.2	73.3
85°	0.0	0.0	0.0	12.9	30.2	47.4	43.1	21.5	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°	11109.9	11109.9	11109.9	11109.9	11109.9	11109.9	11109.9	11109.9	11109.9	11109.9	11109.9
2.5°	11747.7	11579.6	11196.1	11002.2	10545.4	10480.7	10032.5	9959.3	9808.4	9726.5	9528.3
5°	10747.9	10545.4	9920.5	9394.7	8782.8	8356.1	8028.6	7731.2	7558.9	7399.4	7472.7
7.5°	9933.4	9343.0	8649.2	7770.0	7063.3	6606.5	6106.6	5697.2	5455.8	5292.1	5330.9
10°	9080.1	8696.6	7731.2	6744.4	5891.1	5567.9	5175.7	4861.1	4520.7	4227.6	4089.7
12.5°	8812.9	8244.1	7033.1	6029.0	5382.6	5068.0	4619.8	4257.8	3822.5	3464.8	3339.9
15°	8860.3	8313.0	6843.5	5770.4	5007.6	4464.6	3930.3	3482.1	3003.7	2753.8	2624.5
17.5°	9631.7	8683.6	6968.5	5498.9	4486.2	3732.0	3072.7	2503.8	2146.1	1887.6	1831.5
20°	10579.8	9485.2	7235.7	5300.7	4059.6	2969.2	2245.3	1754.0	1456.6	1413.5	1400.6
22.5°	11967.5	10795.3	7808.8	5167.1	3538.1	2314.2	1538.5	1275.6	1193.7	1185.1	1189.4
25°	13906.8	12437.2	8433.7	5055.0	3145.9	1784.1	1258.4	1081.7	1055.8	1042.9	1064.4
27.5°	14747.1	13428.4	8765.5	4813.7	2788.2	1607.4	1241.1	1073.1	999.8	978.3	991.2
30°	15785.7	14087.8	9287.0	4400.0	2262.5	1323.0	1159.3	1167.9	1133.4	1025.7	991.2
32.5°	17164.7	14910.9	9549.9	4107.0	2021.2	1094.6	849.0	780.0	870.5	887.8	917.9
35°	18048.2	15746.9	9683.5	3934.6	1896.2	935.2	719.7	655.0	633.5	637.8	655.0
37.5°	19690.1	16876.0	9851.5	3753.6	1801.4	814.5	650.7	590.4	560.2	560.2	577.5
40°	20672.7	17772.4	10079.9	3654.5	1706.6	741.2	590.4	538.7	512.8	512.8	521.4
42.5°	20918.3	18216.3	10002.4	3620.0	1598.8	724.0	538.7	499.9	469.7	465.4	461.1
45°	21357.9	18892.9	10015.3	3581.2	1486.8	659.4	508.5	465.4	422.3	418.0	413.7
47.5°	21840.6	19379.8	10041.1	3430.4	1379.0	551.6	530.1	431.0	379.2	370.6	370.6
50°	21426.8	19767.7	10265.2	3279.5	1241.1	448.2	521.4	405.1	336.1	323.2	327.5
52.5°	21478.6	20224.5	10739.3	3068.4	1068.8	357.7	422.3	383.5	306.0	284.4	288.7
55°	20651.1	19741.8	10803.9	2844.3	836.0	275.8	323.2	336.1	258.6	250.0	250.0
57.5°	17776.7	16716.6	9532.6	2305.6	551.6	228.4	232.7	293.0	224.1	215.5	219.8
60°	15212.5	13419.8	7670.9	1521.3	344.8	181.0	168.1	297.4	198.2	193.9	206.9
62.5°	13868.0	11028.0	5817.8	943.8	237.0	137.9	116.4	241.3	172.4	172.4	189.6
65°	10019.6	7408.0	3383.0	495.6	168.1	107.7	86.2	137.9	142.2	146.5	155.1
67.5°	6205.7	3740.6	1426.4	241.3	112.0	73.3	56.0	86.2	94.8	94.8	103.4
70°	3064.1	1491.1	474.0	137.9	86.2	60.3	38.8	47.4	47.4	43.1	47.4
72.5°	948.1	448.2	120.7	86.2	60.3	38.8	21.5	17.2	8.6	0.0	4.3
75°	107.7	86.2	77.6	60.3	38.8	17.2	4.3	0.0	0.0	0.0	0.0
77.5°	64.6	73.3	73.3	60.3	38.8	12.9	0.0	0.0	0.0	0.0	0.0
80°	51.7	56.0	60.3	56.0	34.5	17.2	0.0	0.0	0.0	0.0	0.0
82.5°	64.6	73.3	81.9	73.3	47.4	21.5	8.6	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	12.9	4.3	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°	11109.9	11109.9	11109.9	11109.9	11109.9	11109.9	11109.9	11109.9	11109.9	11109.9	11109.9
2.5°	9446.4	9351.6	9485.2	9287.0	9282.7	9287.0	9231.0	9179.2	9261.1	9480.9	9502.5
5°	7209.8	7412.3	7477.0	7688.2	7571.8	7399.4	7433.9	7317.5	7602.0	7726.9	7627.8
7.5°	5249.0	5236.0	5671.3	5697.2	5753.2	5757.5	5748.9	5520.5	5287.8	5339.5	5494.6
10°	4072.5	3852.7	4063.9	4042.3	4180.2	4141.4	4197.5	3951.8	4033.7	4033.7	4132.8
12.5°	3318.3	3085.6	3046.8	2990.8	3046.8	3068.4	3089.9	3042.5	3180.4	3245.1	3314.0
15°	2534.0	2404.7	2370.2	2262.5	2279.7	2340.1	2391.8	2413.3	2370.2	2469.3	2478.0
17.5°	1840.2	1835.8	1857.4	1853.1	1835.8	1822.9	1818.6	1762.6	1745.3	1754.0	1788.4
20°	1396.3	1430.8	1504.0	1577.3	1616.1	1568.7	1504.0	1409.2	1370.4	1379.0	1383.4
22.5°	1193.7	1245.4	1344.6	1426.4	1465.2	1379.0	1262.7	1180.8	1163.6	1159.3	1154.9
25°	1081.7	1142.0	1215.3	1241.1	1236.8	1185.1	1098.9	1064.4	1055.8	1047.2	1008.4
27.5°	1021.4	1042.9	1055.8	1086.0	1098.9	1064.4	1042.9	991.2	982.6	982.6	956.7
30°	986.9	973.9	991.2	969.6	986.9	961.0	965.3	965.3	943.8	952.4	952.4
32.5°	917.9	922.2	922.2	879.1	892.1	861.9	892.1	917.9	922.2	926.5	961.0
35°	672.3	749.9	788.6	788.6	801.6	780.0	775.7	745.5	706.8	668.0	650.7
37.5°	590.4	620.6	672.3	702.4	724.0	706.8	668.0	620.6	599.0	581.8	564.5
40°	525.8	551.6	586.1	620.6	663.7	642.1	581.8	560.2	534.4	534.4	517.1
42.5°	474.0	487.0	508.5	560.2	607.6	564.5	521.4	504.2	491.3	487.0	482.7
45°	426.6	431.0	452.5	495.6	551.6	508.5	465.4	443.9	448.2	452.5	448.2
47.5°	383.5	392.2	405.1	456.8	491.3	469.7	422.3	409.4	409.4	409.4	413.7
50°	331.8	353.4	379.2	422.3	448.2	435.3	396.5	379.2	370.6	370.6	374.9
52.5°	297.4	314.6	349.1	400.8	435.3	413.7	374.9	349.1	331.8	327.5	336.1
55°	258.6	288.7	344.8	383.5	431.0	409.4	366.3	336.1	306.0	301.7	301.7
57.5°	232.7	280.1	331.8	379.2	418.0	400.8	366.3	327.5	288.7	284.4	284.4
60°	219.8	271.5	323.2	366.3	418.0	392.2	362.0	318.9	275.8	275.8	271.5
62.5°	206.9	254.3	306.0	349.1	400.8	379.2	349.1	306.0	262.9	262.9	254.3
65°	172.4	219.8	254.3	293.0	349.1	327.5	297.4	267.2	232.7	224.1	228.4
67.5°	120.7	150.8	185.3	224.1	258.6	250.0	237.0	215.5	185.3	181.0	176.7
70°	60.3	81.9	112.0	150.8	181.0	172.4	163.8	146.5	129.3	125.0	125.0
72.5°	8.6	25.9	47.4	69.0	94.8	99.1	94.8	90.5	86.2	81.9	86.2
75°	0.0	0.0	0.0	17.2	38.8	47.4	56.0	64.6	64.6	56.0	69.0
77.5°	0.0	0.0	0.0	0.0	4.3	21.5	43.1	56.0	69.0	60.3	81.9
80°	0.0	0.0	0.0	0.0	4.3	25.9	43.1	60.3	69.0	60.3	86.2
82.5°	0.0	0.0	0.0	0.0	4.3	30.2	43.1	56.0	64.6	60.3	77.6
85°	0.0	0.0	0.0	0.0	12.9	25.9	17.2	8.6	4.3	4.3	12.9
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: P531979

CATALOG NUMBER: GALN-SA7B-740-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	11109.9	11109.9	11109.9	11109.9	11109.9	11109.9	11109.9	11109.9	11109.9	11109.9
2.5°	9623.1	9929.1	10256.6	10381.6	10769.4	11062.5	11260.7	11687.4	11752.0	11756.3
5°	7731.2	7886.4	8446.6	8709.5	9287.0	9735.2	10213.5	10903.0	11364.2	11398.6
7.5°	5494.6	5925.6	6162.6	6847.8	7558.9	8261.3	8972.4	9773.9	10308.3	10321.3
10°	4421.5	4701.7	5124.0	5636.8	6235.8	6951.2	7899.3	8830.2	9373.2	9506.8
12.5°	3559.6	4050.9	4533.6	5063.7	5520.5	6059.2	7080.5	8321.6	8769.8	9037.0
15°	2740.8	3189.0	3757.9	4378.5	4895.6	5615.3	6778.8	8196.7	8950.8	9041.3
17.5°	2021.2	2421.9	2947.7	3533.8	4309.5	5330.9	6830.6	8830.2	9541.2	9692.1
20°	1452.3	1685.0	2098.7	2779.6	3766.5	4999.0	6882.3	9472.3	10554.0	10812.5
22.5°	1150.6	1245.4	1516.9	2120.3	3158.9	4650.0	7248.6	10700.5	11945.9	12320.9
25°	999.8	1051.5	1180.8	1672.1	2775.3	4615.5	7834.7	12174.3	13799.0	14070.5
27.5°	965.3	973.9	1086.0	1534.2	2568.5	4387.1	8058.8	13221.6	14954.0	15229.8
30°	1017.0	1154.9	1163.6	1297.2	2184.9	3934.6	8175.1	14234.3	15932.2	16134.8
32.5°	879.1	836.0	866.2	1004.1	1922.0	3671.7	8394.9	15117.7	17048.4	17190.6
35°	611.9	642.1	711.1	870.5	1680.7	3395.9	8450.9	16091.7	18108.5	18255.0
37.5°	564.5	581.8	637.8	741.2	1478.2	3240.7	8373.4	16802.7	19207.4	19410.0
40°	525.8	547.3	577.5	672.3	1327.3	3068.4	8265.6	17444.9	19879.7	20379.6
42.5°	495.6	512.8	538.7	642.1	1198.0	2896.0	8114.8	18349.9	20483.1	20918.3
45°	461.1	487.0	517.1	624.9	1124.8	2779.6	8002.7	18293.8	20832.1	21064.8
47.5°	426.6	469.7	504.2	581.8	1103.2	2723.6	8050.1	18082.7	20547.7	20388.3
50°	392.2	448.2	508.5	482.7	1051.5	2611.6	8106.2	18371.4	19871.1	19840.9
52.5°	362.0	426.6	474.0	396.5	935.2	2503.8	8649.2	18750.6	20349.5	19948.7
55°	318.9	383.5	379.2	318.9	758.5	2421.9	9075.8	18759.3	20026.3	20177.1
57.5°	288.7	340.5	297.4	267.2	560.2	2025.5	8382.0	15729.7	17143.2	17410.4
60°	267.2	331.8	224.1	211.2	366.3	1460.9	7317.5	12183.0	13626.6	14130.9
62.5°	245.6	314.6	176.7	172.4	254.3	1038.6	6016.1	10196.3	11743.4	12428.6
65°	215.5	224.1	142.2	133.6	181.0	560.2	3663.1	7020.2	8778.5	9032.7
67.5°	176.7	172.4	116.4	107.7	120.7	271.5	1616.1	3516.6	5089.5	5516.2
70°	142.2	142.2	99.1	86.2	86.2	125.0	422.3	1400.6	2301.3	2546.9
72.5°	103.4	107.7	77.6	69.0	64.6	60.3	69.0	280.1	603.3	771.4
75°	90.5	94.8	77.6	60.3	47.4	38.8	30.2	25.9	34.5	56.0
77.5°	99.1	99.1	81.9	56.0	43.1	30.2	17.2	8.6	8.6	4.3
80°	125.0	129.3	107.7	73.3	51.7	34.5	21.5	8.6	4.3	4.3
82.5°	133.6	146.5	120.7	90.5	64.6	38.8	21.5	4.3	0.0	0.0
85°	34.5	56.0	94.8	81.9	64.6	38.8	21.5	4.3	0.0	0.0
87.5°	0.0	4.3	12.9	12.9	17.2	17.2	12.9	4.3	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

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