

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: P532525

Luminaire Tested: **GALN-SA7D-827-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532525
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-SA7D-827-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 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: 21898 lumens
Efficiency: N/A
Efficacy: 50.6 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

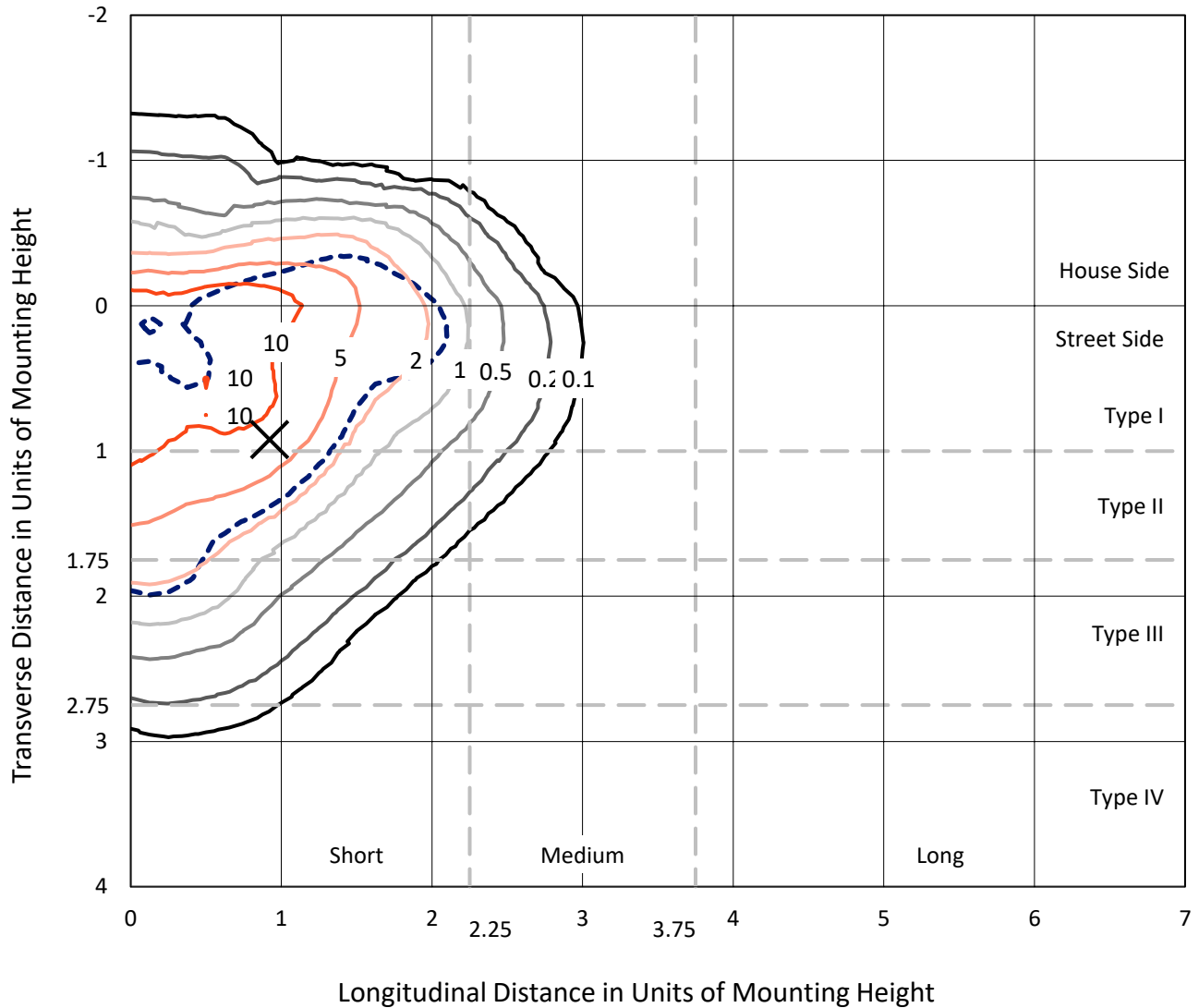
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P532525
 CATALOG NUMBER: GALN-SA7D-827-U-SLL-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

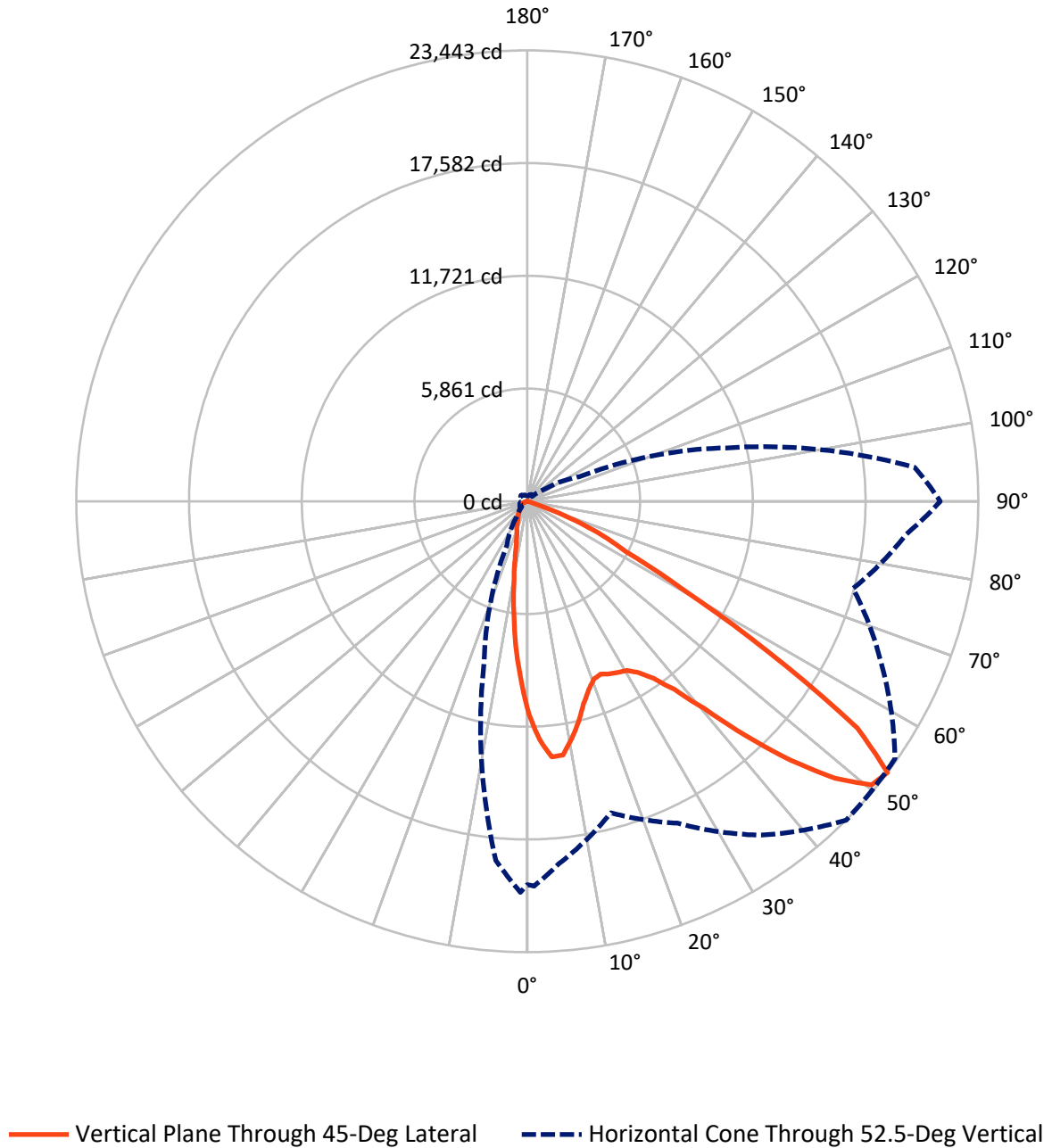
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P532525
CATALOG NUMBER: GALN-SA7D-827-U-SLL-GRSBK

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4444.2	0.0	4444.2
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	17453.8	0.0	17453.8
	% Fixture	79.7	0.0	79.7
Total	Lumens	21898.0	0.0	21898.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	809.8	3.7
10°-20°	1597.6	7.3
20°-30°	2431.3	11.1
30°-40°	3633.8	16.6
40°-50°	5174.9	23.6
50°-60°	5562.9	25.4
60°-70°	2465.0	11.3
70°-80°	199.4	0.9
80°-90°	23.2	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°	21898.0	100.0
0°-180°	21898.0	100.0

Coefficient of Utilization



REPORT NUMBER: P532525

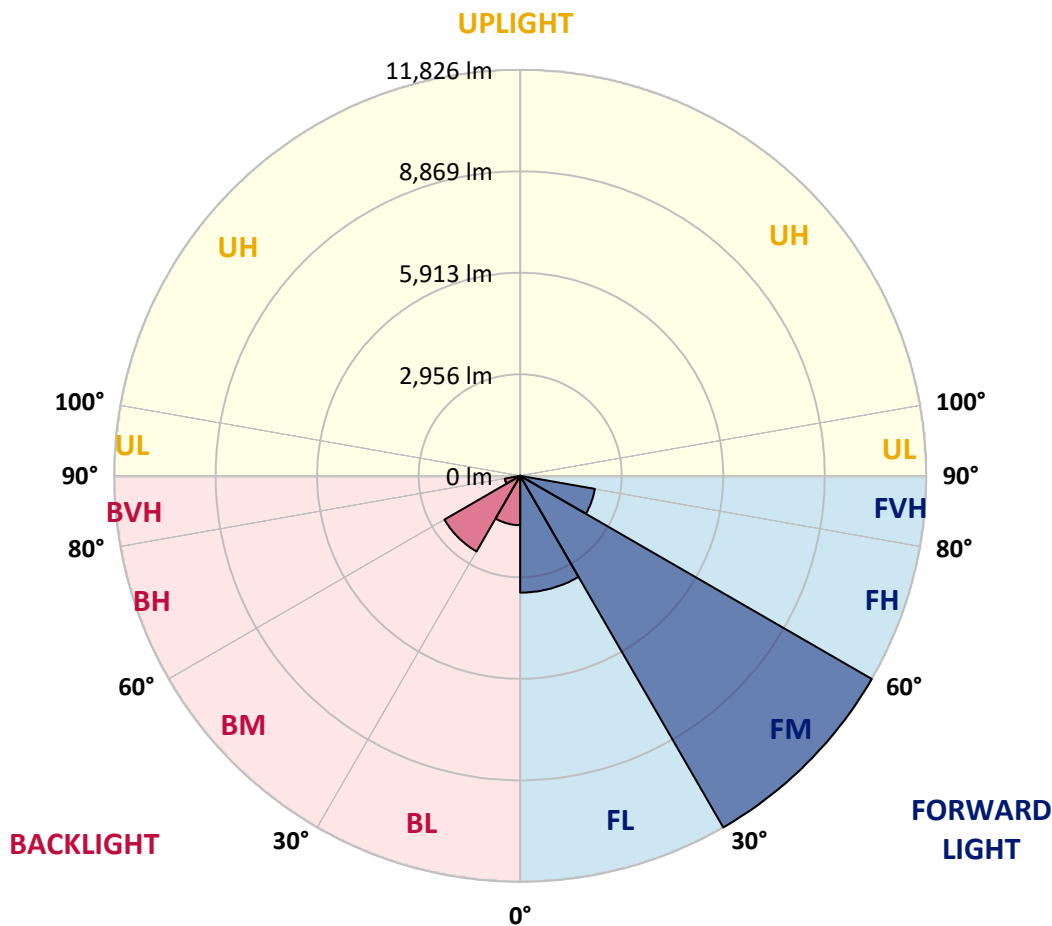
CATALOG NUMBER: GALN-SA7D-827-U-SLL-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3401.2	15.5			
FM (30°-60°)	11825.6	54.0			
FH (60°-80°)	2209.8	10.1			G2/5000
FVH (80°-90°)	17.2	0.1			G1/100
BL (0°-30°)	1437.4	6.6	B3/2500		
BM (30°-60°)	2546.0	11.6	B3/5000		
BH (60°-80°)	454.7	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





REPORT NUMBER: P532525

CATALOG NUMBER: GALN-SA7D-827-U-SLL-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11103.3	11103.3	11103.3	11103.3	11103.3	11103.3	11103.3	11103.3	11103.3	11103.3	11103.3
2.5°	11749.3	11783.8	11973.3	12210.2	12335.1	12619.3	12421.2	12472.9	12365.2	11986.2	11689.0
5°	11391.9	11387.6	11628.8	12214.5	12770.1	13334.3	13351.5	13050.0	12520.3	11938.9	11107.6
7.5°	10315.1	10483.1	10732.9	11667.5	12696.9	13119.0	13321.4	12968.2	12154.2	11323.0	10422.8
10°	9501.1	9587.3	10009.3	11137.8	11891.5	12455.7	12580.6	12378.2	11753.7	10715.7	9707.9
12.5°	9031.7	9074.7	9570.0	10517.6	11314.3	11732.1	11792.4	11887.2	11439.2	10465.9	9255.6
15°	9036.0	9070.4	9738.0	10530.5	10844.9	10732.9	10931.0	10926.7	11120.5	10418.5	9634.6
17.5°	9686.3	9725.1	10328.1	10720.0	10582.2	10319.4	10306.5	10504.6	10913.8	11008.6	10207.5
20°	10806.1	10896.6	11340.2	11318.7	10543.4	10013.6	9867.2	10018.0	10969.8	11508.2	11361.7
22.5°	12313.6	12438.5	12748.6	12154.2	10720.0	9806.9	9759.5	10052.4	11340.2	12623.7	12671.0
25°	14062.2	14273.2	14424.0	13661.6	11348.8	10164.4	9940.4	10444.3	11839.8	13833.9	14337.8
27.5°	15220.7	15440.4	15405.9	14316.3	11770.9	10259.1	10069.6	10539.1	12274.8	14122.5	15207.8
30°	16125.2	16258.7	16499.9	14669.5	12193.0	10526.2	10203.2	10939.6	12416.9	14622.1	16258.7
32.5°	17180.4	17270.8	17288.1	15294.0	12843.3	10862.1	10616.6	11439.2	13045.7	15100.1	17189.0
35°	18244.2	18377.7	18097.8	16064.9	13243.9	11486.6	11305.7	12304.9	13549.6	15595.4	18214.1
37.5°	19398.5	19467.4	18821.3	16383.6	13816.7	12503.1	12404.0	13239.5	14424.0	16491.3	19351.1
40°	20367.5	20432.1	19592.3	16775.6	14419.7	13924.4	14178.5	15022.6	15612.7	17072.7	19919.6
42.5°	20905.9	21056.7	19850.7	16560.2	15629.9	15535.2	16663.6	16960.7	16990.9	17236.4	20427.8
45°	21052.3	20983.4	19424.3	16736.8	16689.4	18183.9	19209.0	19600.9	18360.5	17537.9	20557.0
47.5°	20376.2	20466.6	18795.5	16581.7	18080.6	20191.0	21517.5	22245.4	19381.3	17275.2	20238.3
50°	19829.2	19712.9	18593.1	16469.8	18455.3	21138.5	23184.3	23347.9	20320.2	17598.2	19889.5
52.5°	19936.8	20010.1	18916.1	16766.9	18463.9	21194.5	23442.7	23330.7	20350.3	17525.0	19764.6
55°	20165.1	19842.1	18778.3	16112.3	17227.8	19631.1	20806.9	20634.6	18782.6	16745.4	19458.8
57.5°	17400.1	17899.7	17266.5	14385.2	14139.7	14790.0	14768.5	15298.3	14010.5	14411.0	17714.5
60°	14122.5	14208.6	14445.5	12304.9	9785.4	9561.4	9251.3	8915.4	9427.9	12322.2	16112.3
62.5°	12421.2	12317.9	13162.0	11193.7	6908.3	5784.2	5732.5	5939.3	7274.4	11753.7	15113.1
65°	9027.4	9156.6	9768.2	8687.1	5185.6	4414.6	4337.1	4948.7	5887.6	9419.3	11534.0
67.5°	5512.9	5762.7	5818.7	5357.8	3518.8	2795.2	2683.2	3238.8	4251.0	6094.3	6761.9
70°	2545.4	2846.9	3131.1	2924.4	2037.2	1150.0	1085.4	1361.0	2144.9	3505.9	3587.7
72.5°	770.9	775.3	1085.4	1132.7	659.0	258.4	228.3	301.5	727.9	1158.6	1218.9
75°	56.0	60.3	146.4	168.0	124.9	64.6	68.9	81.8	155.1	258.4	193.8
77.5°	4.3	4.3	4.3	21.5	38.8	43.1	56.0	64.6	81.8	94.8	86.1
80°	4.3	0.0	4.3	17.2	30.1	43.1	51.7	60.3	64.6	73.2	64.6
82.5°	0.0	0.0	0.0	12.9	30.1	43.1	47.4	64.6	73.2	86.1	73.2
85°	0.0	0.0	0.0	12.9	30.1	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



REPORT NUMBER: P532525

CATALOG NUMBER: GALN-SA7D-827-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11103.3	11103.3	11103.3	11103.3	11103.3	11103.3	11103.3	11103.3	11103.3	11103.3	11103.3
2.5°	11740.7	11572.8	11189.4	10995.6	10539.1	10474.5	10026.6	9953.3	9802.6	9720.8	9522.7
5°	10741.5	10539.1	9914.6	9389.1	8777.6	8351.2	8023.8	7726.7	7554.4	7395.0	7468.2
7.5°	9927.5	9337.5	8644.0	7765.4	7059.1	6602.5	6102.9	5693.8	5452.6	5288.9	5327.7
10°	9074.7	8691.4	7726.7	6740.4	5887.6	5564.6	5172.6	4858.2	4518.0	4225.1	4087.3
12.5°	8807.7	8239.2	7028.9	6025.4	5379.4	5065.0	4617.0	4255.3	3820.3	3462.8	3337.9
15°	8855.1	8308.1	6839.4	5767.0	5004.7	4462.0	3927.9	3480.0	3001.9	2752.1	2622.9
17.5°	9626.0	8678.5	6964.3	5495.7	4483.5	3729.8	3070.9	2502.3	2144.9	1886.4	1830.5
20°	10573.5	9479.6	7231.4	5297.5	4057.1	2967.5	2243.9	1752.9	1455.7	1412.7	1399.8
22.5°	11960.4	10788.9	7804.2	5164.0	3536.0	2312.8	1537.6	1274.9	1193.0	1184.4	1188.7
25°	13898.5	12429.8	8428.7	5052.0	3144.1	1783.1	1257.6	1081.0	1055.2	1042.3	1063.8
27.5°	14738.4	13420.4	8760.3	4810.9	2786.6	1606.5	1240.4	1072.4	999.2	977.7	990.6
30°	15776.3	14079.4	9281.5	4397.4	2261.1	1322.2	1158.6	1167.2	1132.7	1025.1	990.6
32.5°	17154.6	14902.0	9544.2	4104.5	2020.0	1094.0	848.5	779.6	870.0	887.2	917.4
35°	18037.5	15737.6	9677.7	3932.2	1895.1	934.6	719.3	654.7	633.1	637.4	654.7
37.5°	19678.4	16866.0	9845.7	3751.3	1800.3	814.0	650.3	590.1	559.9	559.9	577.1
40°	20660.4	17761.8	10073.9	3652.3	1705.6	740.8	590.1	538.4	512.5	512.5	521.1
42.5°	20905.9	18205.5	9996.4	3617.8	1597.9	723.6	538.4	499.6	469.5	465.2	460.8
45°	21345.2	18881.6	10009.3	3579.1	1485.9	659.0	508.2	465.2	422.1	417.8	413.5
47.5°	21827.6	19368.3	10035.2	3428.3	1378.2	551.3	529.8	430.7	379.0	370.4	370.4
50°	21414.1	19756.0	10259.1	3277.6	1240.4	447.9	521.1	404.9	335.9	323.0	327.3
52.5°	21465.8	20212.5	10732.9	3066.5	1068.1	357.5	422.1	383.3	305.8	284.3	288.6
55°	20638.9	19730.1	10797.5	2842.6	835.5	275.6	323.0	335.9	258.4	249.8	249.8
57.5°	17766.1	16706.6	9527.0	2304.2	551.3	228.3	232.6	292.9	224.0	215.3	219.7
60°	15203.5	13411.8	7666.4	1520.4	344.6	180.9	168.0	297.2	198.1	193.8	206.7
62.5°	13859.7	11021.5	5814.4	943.2	236.9	137.8	116.3	241.2	172.3	172.3	189.5
65°	10013.6	7403.6	3381.0	495.3	168.0	107.7	86.1	137.8	142.1	146.4	155.1
67.5°	6202.0	3738.4	1425.6	241.2	112.0	73.2	56.0	86.1	94.8	94.8	103.4
70°	3062.2	1490.2	473.8	137.8	86.1	60.3	38.8	47.4	47.4	43.1	47.4
72.5°	947.5	447.9	120.6	86.1	60.3	38.8	21.5	17.2	8.6	0.0	4.3
75°	107.7	86.1	77.5	60.3	38.8	17.2	4.3	0.0	0.0	0.0	0.0
77.5°	64.6	73.2	73.2	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	73.2	81.8	73.2	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



REPORT NUMBER: P532525

CATALOG NUMBER: GALN-SA7D-827-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	11103.3	11103.3	11103.3	11103.3	11103.3	11103.3	11103.3	11103.3	11103.3	11103.3	11103.3
2.5°	9440.8	9346.1	9479.6	9281.5	9277.2	9281.5	9225.5	9173.8	9255.6	9475.3	9496.8
5°	7205.5	7407.9	7472.5	7683.6	7567.3	7395.0	7429.5	7313.2	7597.5	7722.4	7623.3
7.5°	5245.9	5232.9	5667.9	5693.8	5749.8	5754.1	5745.5	5517.2	5284.6	5336.3	5491.4
10°	4070.1	3850.4	4061.4	4039.9	4177.7	4139.0	4195.0	3949.5	4031.3	4031.3	4130.4
12.5°	3316.3	3083.8	3045.0	2989.0	3045.0	3066.5	3088.1	3040.7	3178.5	3243.1	3312.0
15°	2532.5	2403.3	2368.8	2261.1	2278.4	2338.7	2390.4	2411.9	2368.8	2467.9	2476.5
17.5°	1839.1	1834.8	1856.3	1852.0	1834.8	1821.8	1817.5	1761.5	1744.3	1752.9	1787.4
20°	1395.5	1429.9	1503.1	1576.3	1615.1	1567.7	1503.1	1408.4	1369.6	1378.2	1382.5
22.5°	1193.0	1244.7	1343.8	1425.6	1464.4	1378.2	1261.9	1180.1	1162.9	1158.6	1154.3
25°	1081.0	1141.3	1214.6	1240.4	1236.1	1184.4	1098.3	1063.8	1055.2	1046.6	1007.8
27.5°	1020.7	1042.3	1055.2	1085.4	1098.3	1063.8	1042.3	990.6	982.0	982.0	956.1
30°	986.3	973.4	990.6	969.1	986.3	960.4	964.8	964.8	943.2	951.8	951.8
32.5°	917.4	921.7	921.7	878.6	891.5	861.4	891.5	917.4	921.7	926.0	960.4
35°	671.9	749.4	788.2	788.2	801.1	779.6	775.3	745.1	706.3	667.6	650.3
37.5°	590.1	620.2	671.9	702.0	723.6	706.3	667.6	620.2	598.7	581.4	564.2
40°	525.4	551.3	585.7	620.2	663.3	641.7	581.4	559.9	534.1	534.1	516.8
42.5°	473.8	486.7	508.2	559.9	607.3	564.2	521.1	503.9	491.0	486.7	482.4
45°	426.4	430.7	452.2	495.3	551.3	508.2	465.2	443.6	447.9	452.2	447.9
47.5°	383.3	391.9	404.9	456.5	491.0	469.5	422.1	409.2	409.2	409.2	413.5
50°	331.6	353.2	379.0	422.1	447.9	435.0	396.2	379.0	370.4	370.4	374.7
52.5°	297.2	314.4	348.9	400.5	435.0	413.5	374.7	348.9	331.6	327.3	335.9
55°	258.4	288.6	344.6	383.3	430.7	409.2	366.1	335.9	305.8	301.5	301.5
57.5°	232.6	280.0	331.6	379.0	417.8	400.5	366.1	327.3	288.6	284.3	284.3
60°	219.7	271.3	323.0	366.1	417.8	391.9	361.8	318.7	275.6	275.6	271.3
62.5°	206.7	254.1	305.8	348.9	400.5	379.0	348.9	305.8	262.7	262.7	254.1
65°	172.3	219.7	254.1	292.9	348.9	327.3	297.2	267.0	232.6	224.0	228.3
67.5°	120.6	150.7	185.2	224.0	258.4	249.8	236.9	215.3	185.2	180.9	176.6
70°	60.3	81.8	112.0	150.7	180.9	172.3	163.7	146.4	129.2	124.9	124.9
72.5°	8.6	25.8	47.4	68.9	94.8	99.1	94.8	90.4	86.1	81.8	86.1
75°	0.0	0.0	0.0	17.2	38.8	47.4	56.0	64.6	64.6	56.0	68.9
77.5°	0.0	0.0	0.0	0.0	4.3	21.5	43.1	56.0	68.9	60.3	81.8
80°	0.0	0.0	0.0	0.0	4.3	25.8	43.1	60.3	68.9	60.3	86.1
82.5°	0.0	0.0	0.0	0.0	4.3	30.1	43.1	56.0	64.6	60.3	77.5
85°	0.0	0.0	0.0	0.0	12.9	25.8	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: P532525

CATALOG NUMBER: GALN-SA7D-827-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	11103.3	11103.3	11103.3	11103.3	11103.3	11103.3	11103.3	11103.3	11103.3	11103.3
2.5°	9617.4	9923.2	10250.5	10375.4	10763.1	11055.9	11254.0	11680.4	11745.0	11749.3
5°	7726.7	7881.7	8441.6	8704.3	9281.5	9729.4	10207.5	10896.6	11357.4	11391.9
7.5°	5491.4	5922.0	6158.9	6843.7	7554.4	8256.4	8967.1	9768.2	10302.2	10315.1
10°	4418.9	4698.9	5121.0	5633.5	6232.1	6947.1	7894.6	8824.9	9367.6	9501.1
12.5°	3557.5	4048.5	4530.9	5060.7	5517.2	6055.6	7076.3	8316.7	8764.6	9031.7
15°	2739.2	3187.1	3755.7	4375.9	4892.7	5611.9	6774.8	8191.8	8945.5	9036.0
17.5°	2020.0	2420.5	2946.0	3531.7	4306.9	5327.7	6826.5	8824.9	9535.6	9686.3
20°	1451.4	1684.0	2097.5	2778.0	3764.3	4996.1	6878.2	9466.7	10547.7	10806.1
22.5°	1150.0	1244.7	1516.0	2119.0	3157.0	4647.2	7244.3	10694.1	11938.9	12313.6
25°	999.2	1050.9	1180.1	1671.1	2773.7	4612.7	7830.0	12167.1	13790.8	14062.2
27.5°	964.8	973.4	1085.4	1533.3	2566.9	4384.5	8054.0	13213.7	14945.1	15220.7
30°	1016.4	1154.3	1162.9	1296.4	2183.6	3932.2	8170.3	14225.8	15922.8	16125.2
32.5°	878.6	835.5	865.7	1003.5	1920.9	3669.5	8389.9	15108.8	17038.3	17180.4
35°	611.6	641.7	710.6	870.0	1679.7	3393.9	8445.9	16082.1	18097.8	18244.2
37.5°	564.2	581.4	637.4	740.8	1477.3	3238.8	8368.4	16792.8	19196.1	19398.5
40°	525.4	547.0	577.1	671.9	1326.5	3066.5	8260.7	17434.5	19867.9	20367.5
42.5°	495.3	512.5	538.4	641.7	1197.3	2894.3	8110.0	18339.0	20470.9	20905.9
45°	460.8	486.7	516.8	624.5	1124.1	2778.0	7998.0	18283.0	20819.8	21052.3
47.5°	426.4	469.5	503.9	581.4	1102.6	2722.0	8045.4	18071.9	20535.5	20376.2
50°	391.9	447.9	508.2	482.4	1050.9	2610.0	8101.4	18360.5	19859.3	19829.2
52.5°	361.8	426.4	473.8	396.2	934.6	2502.3	8644.0	18739.5	20337.4	19936.8
55°	318.7	383.3	379.0	318.7	758.0	2420.5	9070.4	18748.1	20014.4	20165.1
57.5°	288.6	340.2	297.2	267.0	559.9	2024.3	8377.0	15720.3	17133.0	17400.1
60°	267.0	331.6	224.0	211.0	366.1	1460.1	7313.2	12175.7	13618.6	14122.5
62.5°	245.5	314.4	176.6	172.3	254.1	1038.0	6012.5	10190.2	11736.4	12421.2
65°	215.3	224.0	142.1	133.5	180.9	559.9	3660.9	7016.0	8773.2	9027.4
67.5°	176.6	172.3	116.3	107.7	120.6	271.3	1615.1	3514.5	5086.5	5512.9
70°	142.1	142.1	99.1	86.1	86.1	124.9	422.1	1399.8	2299.9	2545.4
72.5°	103.4	107.7	77.5	68.9	64.6	60.3	68.9	280.0	603.0	770.9
75°	90.4	94.8	77.5	60.3	47.4	38.8	30.1	25.8	34.5	56.0
77.5°	99.1	99.1	81.8	56.0	43.1	30.1	17.2	8.6	8.6	4.3
80°	124.9	129.2	107.7	73.2	51.7	34.5	21.5	8.6	4.3	4.3
82.5°	133.5	146.4	120.6	90.4	64.6	38.8	21.5	4.3	0.0	0.0
85°	34.5	56.0	94.8	81.8	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

(END OF REPORT)