

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: P532551

Luminaire Tested: **GALN-SA7D-830-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532551
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-830-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 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: 23671 lumens
Efficiency: N/A
Efficacy: 54.7 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

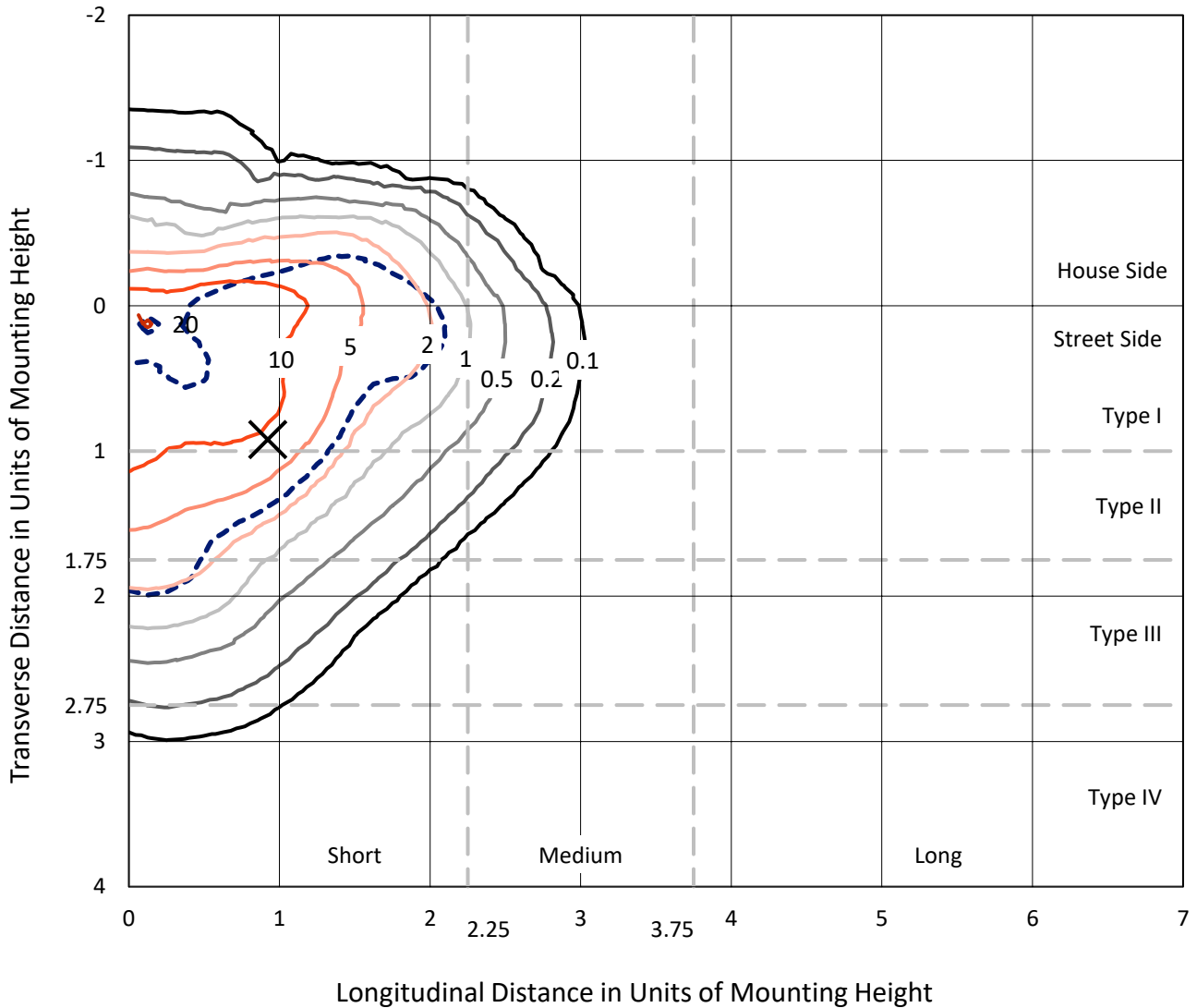
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

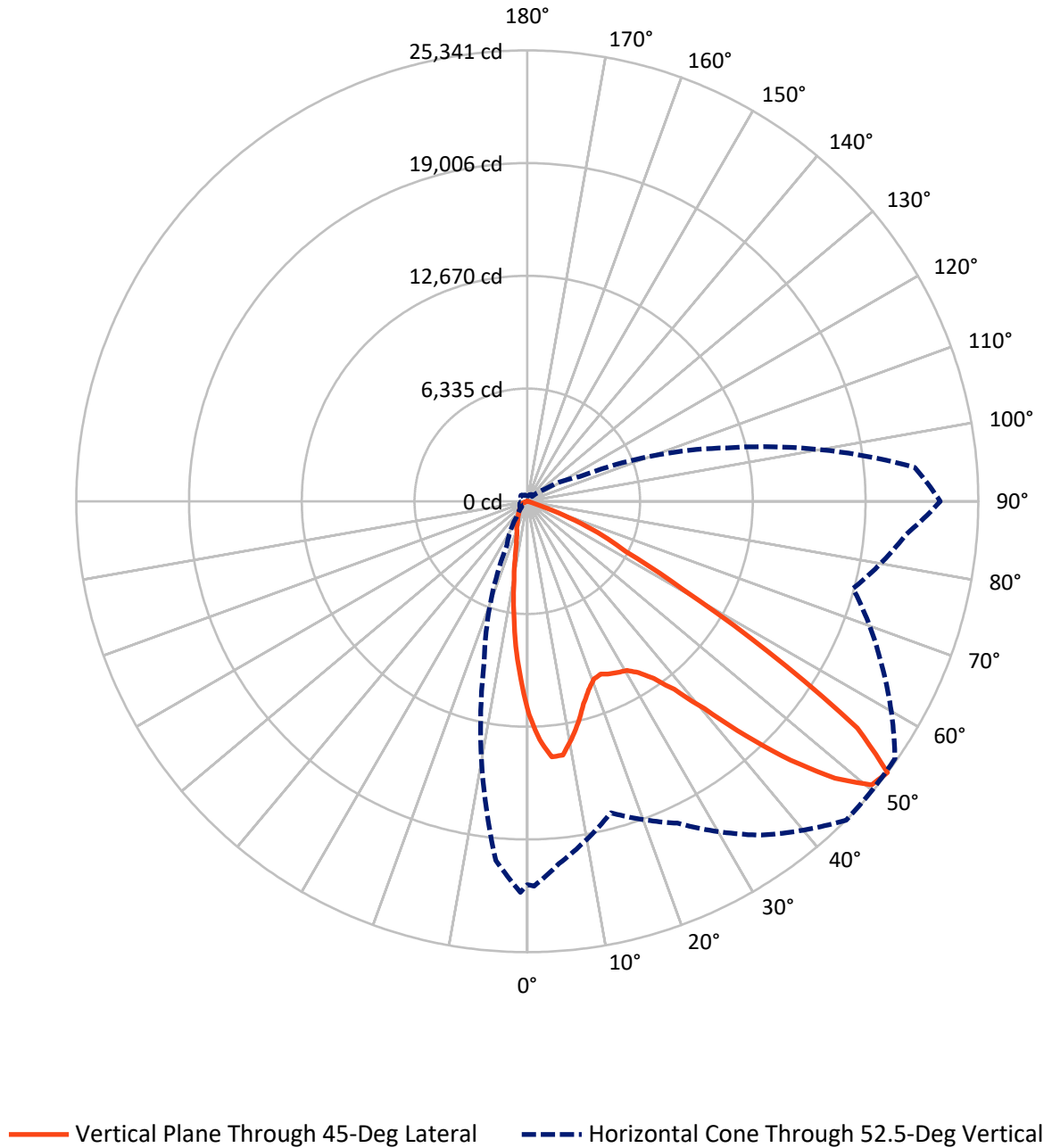
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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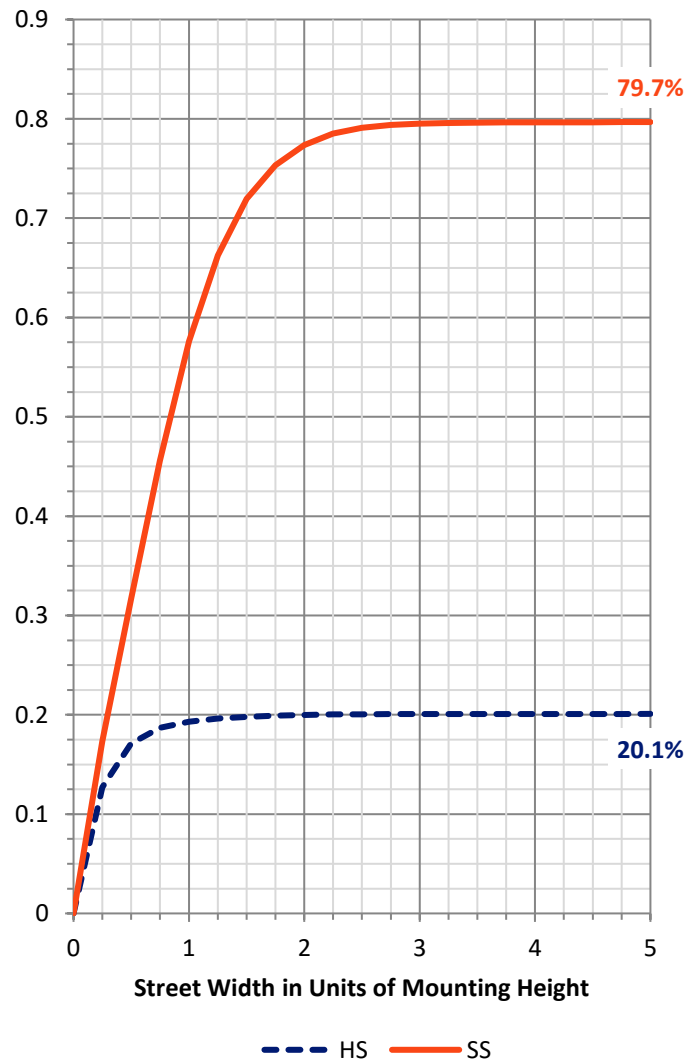
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4804.0	0.0	4804.0
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	18867.0	0.0	18867.0
	% Fixture	79.7	0.0	79.7
Total	Lumens	23671.0	0.0	23671.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	875.3	3.7
10°-20°	1727.0	7.3
20°-30°	2628.1	11.1
30°-40°	3928.1	16.6
40°-50°	5593.9	23.6
50°-60°	6013.3	25.4
60°-70°	2664.6	11.3
70°-80°	215.6	0.9
80°-90°	25.1	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°	23671.0	100.0
0°-180°	23671.0	100.0



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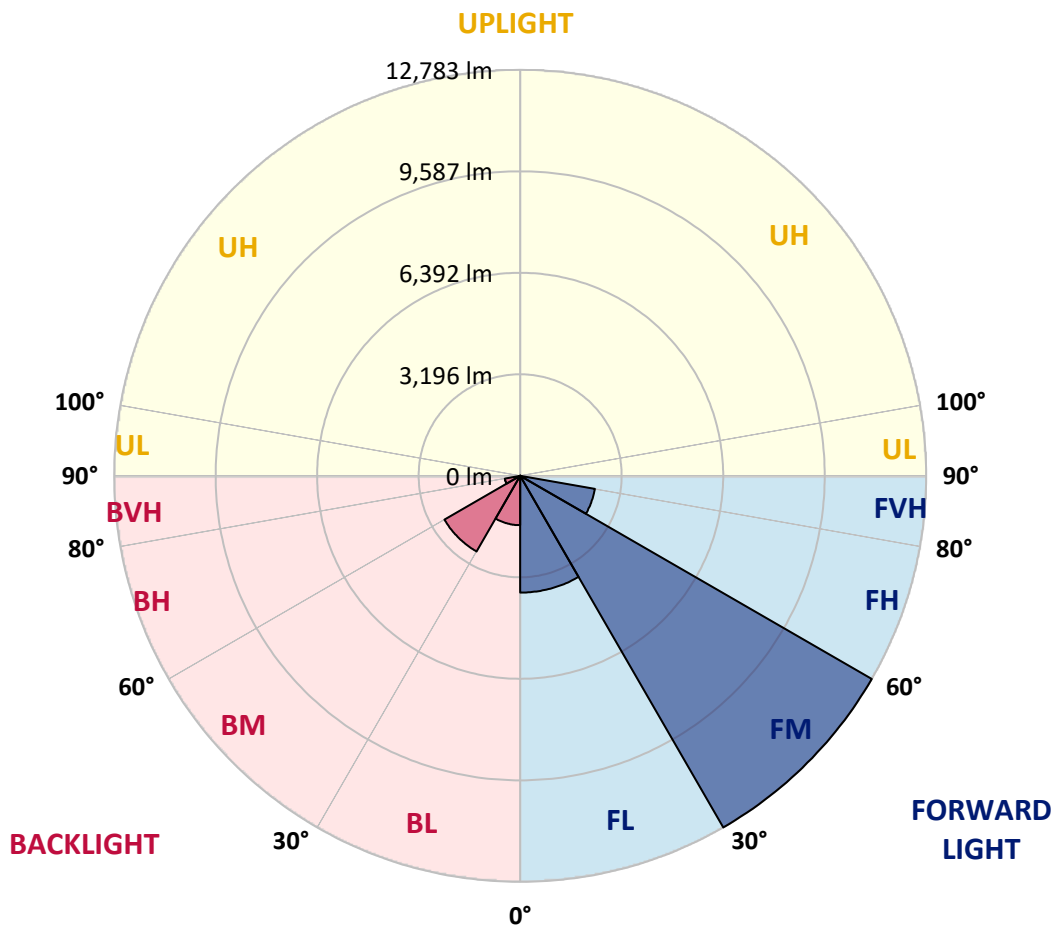
CATALOG NUMBER: GALN-SA7D-830-U-SLL-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3676.6	15.5			
FM (30°-60°)	12783.1	54.0			
FH (60°-80°)	2388.7	10.1			G2/5000
FVH (80°-90°)	18.6	0.1			G1/100
BL (0°-30°)	1553.8	6.6	B3/2500		
BM (30°-60°)	2752.2	11.6	B3/5000		
BH (60°-80°)	491.5	2.1	B1/500		G1/500
BVH (80°-90°)	6.5	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°	12002.3	12002.3	12002.3	12002.3	12002.3	12002.3	12002.3	12002.3	12002.3	12002.3	12002.3
2.5°	12700.6	12737.9	12942.7	13198.8	13333.8	13641.1	13426.9	13482.8	13366.4	12956.7	12635.5
5°	12314.2	12309.6	12570.3	13203.5	13804.0	14413.9	14432.6	14106.7	13534.0	12905.5	12007.0
7.5°	11150.3	11331.9	11601.9	12612.2	13724.9	14181.1	14400.0	14018.2	13138.3	12239.7	11266.7
10°	10270.4	10363.5	10819.8	12039.5	12854.3	13464.2	13599.2	13380.4	12705.3	11583.3	10493.9
12.5°	9762.9	9809.5	10344.9	11369.1	12230.4	12682.0	12747.2	12849.6	12365.4	11313.3	10005.0
15°	9767.6	9804.8	10526.5	11383.1	11723.0	11601.9	11816.1	11811.4	12020.9	11262.0	10414.7
17.5°	10470.6	10512.5	11164.3	11587.9	11439.0	11155.0	11141.0	11355.2	11797.4	11899.9	11033.9
20°	11681.1	11778.8	12258.4	12235.1	11397.1	10824.4	10666.1	10829.1	11858.0	12439.9	12281.6
22.5°	13310.5	13445.6	13780.8	13138.3	11587.9	10600.9	10549.7	10866.3	12258.4	13645.7	13697.0
25°	15200.7	15428.9	15591.8	14767.8	12267.7	10987.4	10745.3	11290.0	12798.4	14954.0	15498.7
27.5°	16453.1	16690.5	16653.3	15475.4	12723.9	11089.8	10884.9	11392.4	13268.6	15265.9	16439.1
30°	17430.8	17575.1	17835.8	15857.2	13180.2	11378.4	11029.3	11825.4	13422.3	15806.0	17575.1
32.5°	18571.4	18669.2	18687.8	16532.3	13883.2	11741.6	11476.2	12365.4	14102.0	16322.8	18580.7
35°	19721.4	19865.7	19563.1	17365.6	14316.2	12416.7	12221.1	13301.2	14646.7	16858.2	19688.8
37.5°	20969.1	21043.6	20345.2	17710.1	14935.4	13515.4	13408.3	14311.5	15591.8	17826.5	20917.9
40°	22016.6	22086.5	21178.6	18133.8	15587.2	15051.8	15326.4	16238.9	16876.8	18455.0	21532.4
42.5°	22598.6	22761.5	21457.9	17901.0	16895.4	16793.0	18012.8	18334.0	18366.6	18632.0	22081.8
45°	22756.9	22682.4	20997.0	18091.9	18040.7	19656.2	20764.3	21187.9	19847.1	18957.9	22221.5
47.5°	22025.9	22123.7	20317.3	17924.3	19544.5	21825.7	23259.7	24046.5	20950.5	18673.9	21877.0
50°	21434.7	21309.0	20098.5	17803.3	19949.5	22850.0	25061.4	25238.3	21965.4	19023.0	21499.8
52.5°	21551.1	21630.2	20447.7	18124.5	19958.8	22910.5	25340.8	25219.7	21998.0	18943.9	21364.8
55°	21797.8	21448.6	20298.7	17416.8	18622.6	21220.5	22491.5	22305.3	20303.3	18101.2	21034.3
57.5°	18808.9	19348.9	18664.5	15549.9	15284.5	15987.5	15964.3	16536.9	15144.9	15577.8	19148.7
60°	15265.9	15359.0	15615.1	13301.2	10577.7	10335.6	10000.4	9637.2	10191.2	13319.8	17416.8
62.5°	13426.9	13315.2	14227.7	12100.1	7467.7	6252.6	6196.7	6420.2	7863.4	12705.3	16336.7
65°	9758.3	9897.9	10559.0	9390.5	5605.4	4772.1	4688.3	5349.4	6364.3	10181.9	12467.9
67.5°	5959.2	6229.3	6289.8	5791.6	3803.7	3021.5	2900.5	3501.1	4595.1	6587.8	7309.4
70°	2751.5	3077.4	3384.7	3161.2	2202.1	1243.1	1173.2	1471.2	2318.5	3789.7	3878.2
72.5°	833.4	838.0	1173.2	1224.4	712.3	279.3	246.8	325.9	786.8	1252.4	1317.6
75°	60.5	65.2	158.3	181.6	135.0	69.8	74.5	88.5	167.6	279.3	209.5
77.5°	4.7	4.7	4.7	23.3	41.9	46.6	60.5	69.8	88.5	102.4	93.1
80°	4.7	0.0	4.7	18.6	32.6	46.6	55.9	65.2	69.8	79.1	69.8
82.5°	0.0	0.0	0.0	14.0	32.6	46.6	51.2	69.8	79.1	93.1	79.1
85°	0.0	0.0	0.0	14.0	32.6	51.2	46.6	23.3	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°	12002.3	12002.3	12002.3	12002.3	12002.3	12002.3	12002.3	12002.3	12002.3	12002.3	12002.3
2.5°	12691.3	12509.8	12095.4	11885.9	11392.4	11322.6	10838.4	10759.2	10596.3	10507.8	10293.7
5°	11611.2	11392.4	10717.3	10149.3	9488.2	9027.3	8673.5	8352.3	8166.0	7993.8	8072.9
7.5°	10731.3	10093.5	9343.9	8394.2	7630.6	7137.1	6597.1	6154.8	5894.1	5717.2	5759.1
10°	9809.5	9395.1	8352.3	7286.1	6364.3	6015.1	5591.5	5251.6	4883.8	4567.2	4418.2
12.5°	9520.8	8906.3	7598.0	6513.3	5814.9	5475.1	4990.9	4599.8	4129.6	3743.2	3608.1
15°	9572.0	8980.8	7393.2	6233.9	5409.9	4823.3	4246.0	3761.8	3245.0	2975.0	2835.3
17.5°	10405.4	9381.2	7528.2	5940.6	4846.5	4031.8	3319.5	2704.9	2318.5	2039.2	1978.7
20°	11429.7	10247.1	7816.9	5726.5	4385.6	3207.8	2425.6	1894.9	1573.6	1527.1	1513.1
22.5°	12928.8	11662.4	8436.1	5582.1	3822.3	2500.1	1662.1	1378.1	1289.6	1280.3	1285.0
25°	15023.8	13436.2	9111.1	5461.1	3398.6	1927.4	1359.5	1168.6	1140.6	1126.7	1149.9
27.5°	15931.7	14507.0	9469.6	5200.4	3012.2	1736.6	1340.8	1159.3	1080.1	1056.8	1070.8
30°	17053.7	15219.4	10033.0	4753.4	2444.2	1429.3	1252.4	1261.7	1224.4	1108.0	1070.8
32.5°	18543.5	16108.6	10316.9	4436.8	2183.5	1182.5	917.2	842.7	940.4	959.1	991.7
35°	19497.9	17011.8	10461.3	4250.6	2048.5	1010.3	777.5	707.7	684.4	689.0	707.7
37.5°	21271.7	18231.6	10642.8	4055.1	1946.1	879.9	703.0	637.8	605.2	605.2	623.9
40°	22333.2	19200.0	10889.6	3948.0	1843.6	800.8	637.8	582.0	554.0	554.0	563.3
42.5°	22598.6	19679.5	10805.8	3910.8	1727.3	782.2	582.0	540.1	507.5	502.8	498.2
45°	23073.5	20410.4	10819.8	3868.9	1606.2	712.3	549.4	502.8	456.3	451.6	446.9
47.5°	23594.9	20936.5	10847.7	3705.9	1489.8	595.9	572.6	465.6	409.7	400.4	400.4
50°	23148.0	21355.5	11089.8	3543.0	1340.8	484.2	563.3	437.6	363.1	349.2	353.8
52.5°	23203.8	21849.0	11601.9	3314.8	1154.6	386.4	456.3	414.4	330.6	307.3	311.9
55°	22309.9	21327.6	11671.7	3072.7	903.2	298.0	349.2	363.1	279.3	270.0	270.0
57.5°	19204.6	18059.3	10298.3	2490.8	595.9	246.8	251.4	316.6	242.1	232.8	237.4
60°	16434.5	14497.7	8287.1	1643.4	372.5	195.5	181.6	321.2	214.2	209.5	223.5
62.5°	14981.9	11913.8	6285.1	1019.6	256.1	149.0	125.7	260.7	186.2	186.2	204.8
65°	10824.4	8003.1	3654.7	535.4	181.6	116.4	93.1	149.0	153.6	158.3	167.6
67.5°	6704.2	4041.1	1541.0	260.7	121.0	79.1	60.5	93.1	102.4	102.4	111.7
70°	3310.2	1610.9	512.1	149.0	93.1	65.2	41.9	51.2	51.2	46.6	51.2
72.5°	1024.2	484.2	130.4	93.1	65.2	41.9	23.3	18.6	9.3	0.0	4.7
75°	116.4	93.1	83.8	65.2	41.9	18.6	4.7	0.0	0.0	0.0	0.0
77.5°	69.8	79.1	79.1	65.2	41.9	14.0	0.0	0.0	0.0	0.0	0.0
80°	55.9	60.5	65.2	60.5	37.2	18.6	0.0	0.0	0.0	0.0	0.0
82.5°	69.8	79.1	88.5	79.1	51.2	23.3	9.3	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	14.0	4.7	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°	12002.3	12002.3	12002.3	12002.3	12002.3	12002.3	12002.3	12002.3	12002.3	12002.3	12002.3
2.5°	10205.2	10102.8	10247.1	10033.0	10028.3	10033.0	9972.4	9916.6	10005.0	10242.5	10265.7
5°	7788.9	8007.7	8077.6	8305.7	8180.0	7993.8	8031.0	7905.3	8212.6	8347.6	8240.5
7.5°	5670.6	5656.6	6126.9	6154.8	6215.3	6220.0	6210.7	5963.9	5712.5	5768.4	5936.0
10°	4399.6	4162.2	4390.3	4367.0	4516.0	4474.1	4534.6	4269.2	4357.7	4357.7	4464.8
12.5°	3584.9	3333.5	3291.6	3231.0	3291.6	3314.8	3338.1	3286.9	3435.9	3505.7	3580.2
15°	2737.5	2597.9	2560.6	2444.2	2462.8	2528.0	2583.9	2607.2	2560.6	2667.7	2677.0
17.5°	1988.0	1983.3	2006.6	2001.9	1983.3	1969.3	1964.7	1904.2	1885.5	1894.9	1932.1
20°	1508.4	1545.7	1624.8	1704.0	1745.9	1694.7	1624.8	1522.4	1480.5	1489.8	1494.5
22.5°	1289.6	1345.5	1452.6	1541.0	1582.9	1489.8	1364.1	1275.7	1257.0	1252.4	1247.7
25°	1168.6	1233.8	1312.9	1340.8	1336.2	1280.3	1187.2	1149.9	1140.6	1131.3	1089.4
27.5°	1103.4	1126.7	1140.6	1173.2	1187.2	1149.9	1126.7	1070.8	1061.5	1061.5	1033.6
30°	1066.1	1052.2	1070.8	1047.5	1066.1	1038.2	1042.9	1042.9	1019.6	1028.9	1028.9
32.5°	991.7	996.3	996.3	949.8	963.7	931.1	963.7	991.7	996.3	1001.0	1038.2
35°	726.3	810.1	852.0	852.0	866.0	842.7	838.0	805.4	763.5	721.6	703.0
37.5°	637.8	670.4	726.3	758.9	782.2	763.5	721.6	670.4	647.1	628.5	609.9
40°	568.0	595.9	633.2	670.4	717.0	693.7	628.5	605.2	577.3	577.3	558.7
42.5°	512.1	526.1	549.4	605.2	656.4	609.9	563.3	544.7	530.7	526.1	521.4
45°	460.9	465.6	488.8	535.4	595.9	549.4	502.8	479.5	484.2	488.8	484.2
47.5°	414.4	423.7	437.6	493.5	530.7	507.5	456.3	442.3	442.3	442.3	446.9
50°	358.5	381.8	409.7	456.3	484.2	470.2	428.3	409.7	400.4	400.4	405.0
52.5°	321.2	339.9	377.1	433.0	470.2	446.9	405.0	377.1	358.5	353.8	363.1
55°	279.3	311.9	372.5	414.4	465.6	442.3	395.7	363.1	330.6	325.9	325.9
57.5°	251.4	302.6	358.5	409.7	451.6	433.0	395.7	353.8	311.9	307.3	307.3
60°	237.4	293.3	349.2	395.7	451.6	423.7	391.1	344.5	298.0	298.0	293.3
62.5°	223.5	274.7	330.6	377.1	433.0	409.7	377.1	330.6	284.0	284.0	274.7
65°	186.2	237.4	274.7	316.6	377.1	353.8	321.2	288.7	251.4	242.1	246.8
67.5°	130.4	162.9	200.2	242.1	279.3	270.0	256.1	232.8	200.2	195.5	190.9
70°	65.2	88.5	121.0	162.9	195.5	186.2	176.9	158.3	139.7	135.0	135.0
72.5°	9.3	27.9	51.2	74.5	102.4	107.1	102.4	97.8	93.1	88.5	93.1
75°	0.0	0.0	0.0	18.6	41.9	51.2	60.5	69.8	69.8	60.5	74.5
77.5°	0.0	0.0	0.0	0.0	4.7	23.3	46.6	60.5	74.5	65.2	88.5
80°	0.0	0.0	0.0	0.0	4.7	27.9	46.6	65.2	74.5	65.2	93.1
82.5°	0.0	0.0	0.0	0.0	4.7	32.6	46.6	60.5	69.8	65.2	83.8
85°	0.0	0.0	0.0	0.0	14.0	27.9	18.6	9.3	4.7	4.7	14.0
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: P532551

CATALOG NUMBER: GALN-SA7D-830-U-SLL-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	12002.3	12002.3	12002.3	12002.3	12002.3	12002.3	12002.3	12002.3	12002.3	12002.3
2.5°	10396.1	10726.6	11080.5	11215.5	11634.5	11951.1	12165.2	12626.2	12696.0	12700.6
5°	8352.3	8519.9	9125.1	9409.1	10033.0	10517.1	11033.9	11778.8	12277.0	12314.2
7.5°	5936.0	6401.5	6657.6	7397.8	8166.0	8924.9	9693.1	10559.0	11136.3	11150.3
10°	4776.7	5079.3	5535.6	6089.6	6736.7	7509.6	8533.8	9539.5	10126.1	10270.4
12.5°	3845.6	4376.3	4897.8	5470.4	5963.9	6545.9	7649.3	8990.1	9474.3	9762.9
15°	2961.0	3445.2	4059.7	4730.2	5288.8	6066.3	7323.4	8855.1	9669.8	9767.6
17.5°	2183.5	2616.5	3184.5	3817.6	4655.7	5759.1	7379.2	9539.5	10307.6	10470.6
20°	1569.0	1820.4	2267.3	3002.9	4069.0	5400.6	7435.1	10233.1	11401.7	11681.1
22.5°	1243.1	1345.5	1638.8	2290.6	3412.6	5023.5	7830.8	11560.0	12905.5	13310.5
25°	1080.1	1136.0	1275.7	1806.4	2998.2	4986.2	8464.0	13152.2	14907.4	15200.7
27.5°	1042.9	1052.2	1173.2	1657.4	2774.8	4739.5	8706.1	14283.6	16155.1	16453.1
30°	1098.7	1247.7	1257.0	1401.4	2360.4	4250.6	8831.8	15377.7	17212.0	17430.8
32.5°	949.8	903.2	935.8	1084.8	2076.4	3966.6	9069.2	16332.1	18417.8	18571.4
35°	661.1	693.7	768.2	940.4	1815.7	3668.7	9129.8	17384.2	19563.1	19721.4
37.5°	609.9	628.5	689.0	800.8	1596.9	3501.1	9046.0	18152.4	20750.3	20969.1
40°	568.0	591.3	623.9	726.3	1433.9	3314.8	8929.6	18846.1	21476.6	22016.6
42.5°	535.4	554.0	582.0	693.7	1294.3	3128.6	8766.6	19823.8	22128.4	22598.6
45°	498.2	526.1	558.7	675.1	1215.1	3002.9	8645.6	19763.3	22505.5	22756.9
47.5°	460.9	507.5	544.7	628.5	1191.8	2942.4	8696.8	19535.2	22198.2	22025.9
50°	423.7	484.2	549.4	521.4	1136.0	2821.3	8757.3	19847.1	21467.3	21434.7
52.5°	391.1	460.9	512.1	428.3	1010.3	2704.9	9343.9	20256.8	21984.0	21551.1
55°	344.5	414.4	409.7	344.5	819.4	2616.5	9804.8	20266.1	21634.9	21797.8
57.5°	311.9	367.8	321.2	288.7	605.2	2188.2	9055.3	16993.2	18520.2	18808.9
60°	288.7	358.5	242.1	228.1	395.7	1578.3	7905.3	13161.6	14721.2	15265.9
62.5°	265.4	339.9	190.9	186.2	274.7	1122.0	6499.3	11015.3	12686.7	13426.9
65°	232.8	242.1	153.6	144.3	195.5	605.2	3957.3	7584.1	9483.6	9758.3
67.5°	190.9	186.2	125.7	116.4	130.4	293.3	1745.9	3799.0	5498.3	5959.2
70°	153.6	153.6	107.1	93.1	93.1	135.0	456.3	1513.1	2486.1	2751.5
72.5°	111.7	116.4	83.8	74.5	69.8	65.2	74.5	302.6	651.8	833.4
75°	97.8	102.4	83.8	65.2	51.2	41.9	32.6	27.9	37.2	60.5
77.5°	107.1	107.1	88.5	60.5	46.6	32.6	18.6	9.3	9.3	4.7
80°	135.0	139.7	116.4	79.1	55.9	37.2	23.3	9.3	4.7	4.7
82.5°	144.3	158.3	130.4	97.8	69.8	41.9	23.3	4.7	0.0	0.0
85°	37.2	60.5	102.4	88.5	69.8	41.9	23.3	4.7	0.0	0.0
87.5°	0.0	4.7	14.0	14.0	18.6	18.6	14.0	4.7	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)