

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: P526443

Luminaire Tested: **GALN-SA1B-827-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526443
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-SA1B-827-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS 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: 2340 lumens
Efficiency: N/A
Efficacy: 53.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G0

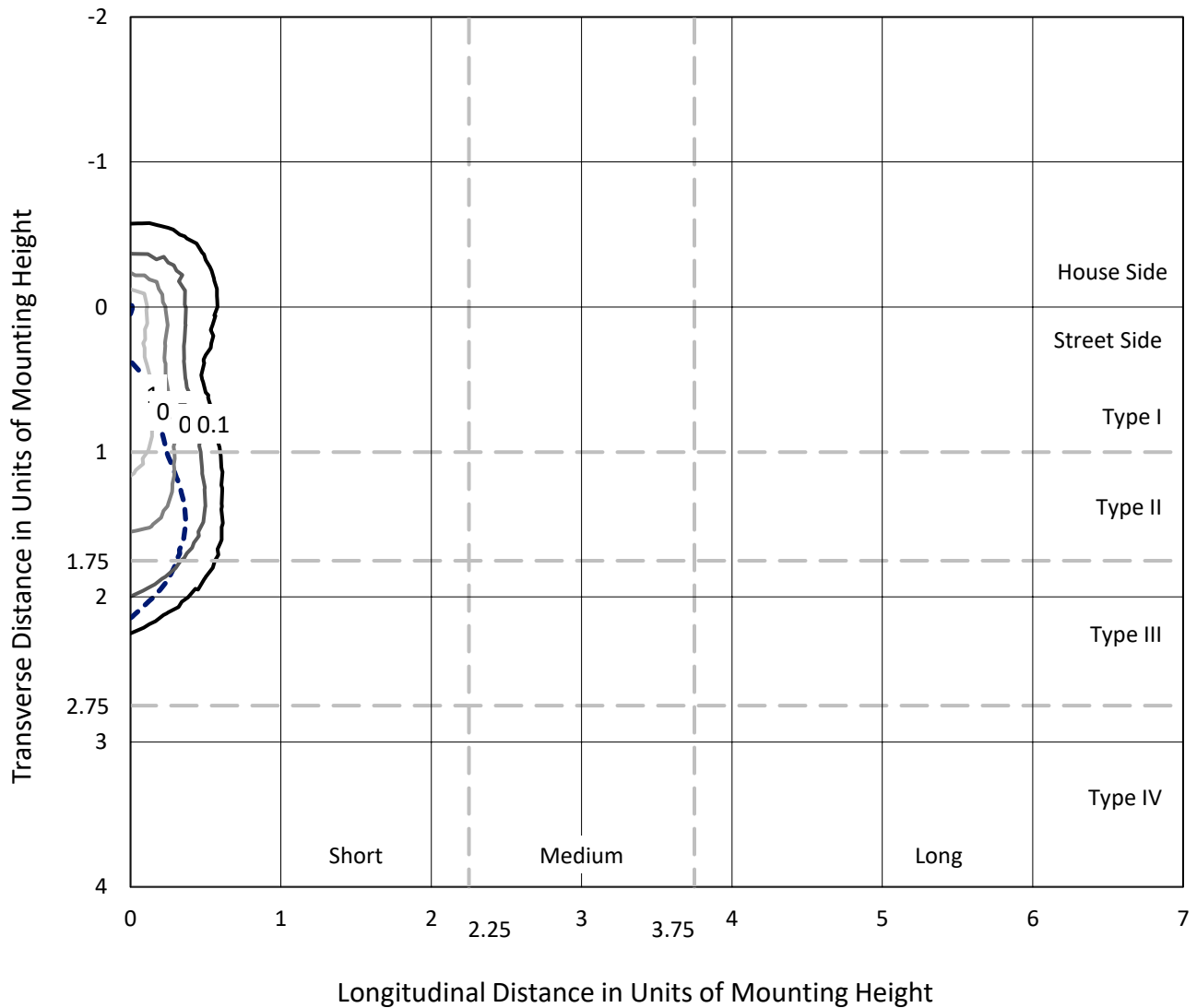
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P526443
 CATALOG NUMBER: GALN-SA1B-827-U-SLR-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

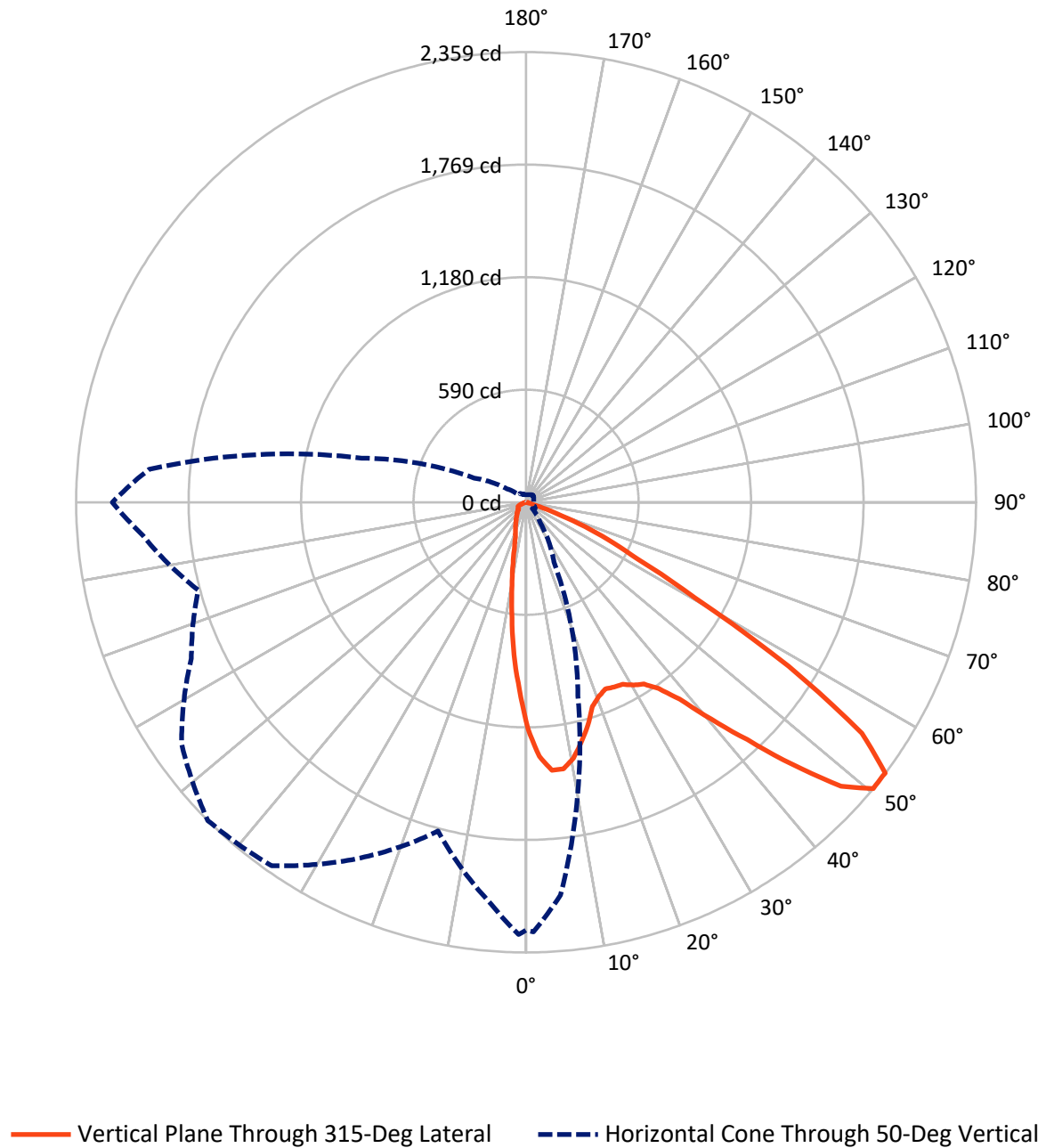
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type III - Short - N/A

REPORT NUMBER: P526443
CATALOG NUMBER: GALN-SA1B-827-U-SLR-GRSBK

Luminous Intensity Polar Plot



REPORT NUMBER: P526443
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	468.7	0.0	468.7
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	1871.3	0.0	1871.3
	% Fixture	80.0	0.0	80.0
Total	Lumens	2340.0	0.0	2340.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.5	3.7
10°-20°	171.9	7.3
20°-30°	258.3	11.0
30°-40°	387.6	16.6
40°-50°	544.8	23.3
50°-60°	587.7	25.1
60°-70°	272.8	11.7
70°-80°	25.7	1.1
80°-90°	4.7	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°	2340.0	100.0
0°-180°	2340.0	100.0

Coefficient of Utilization



REPORT NUMBER: P526443

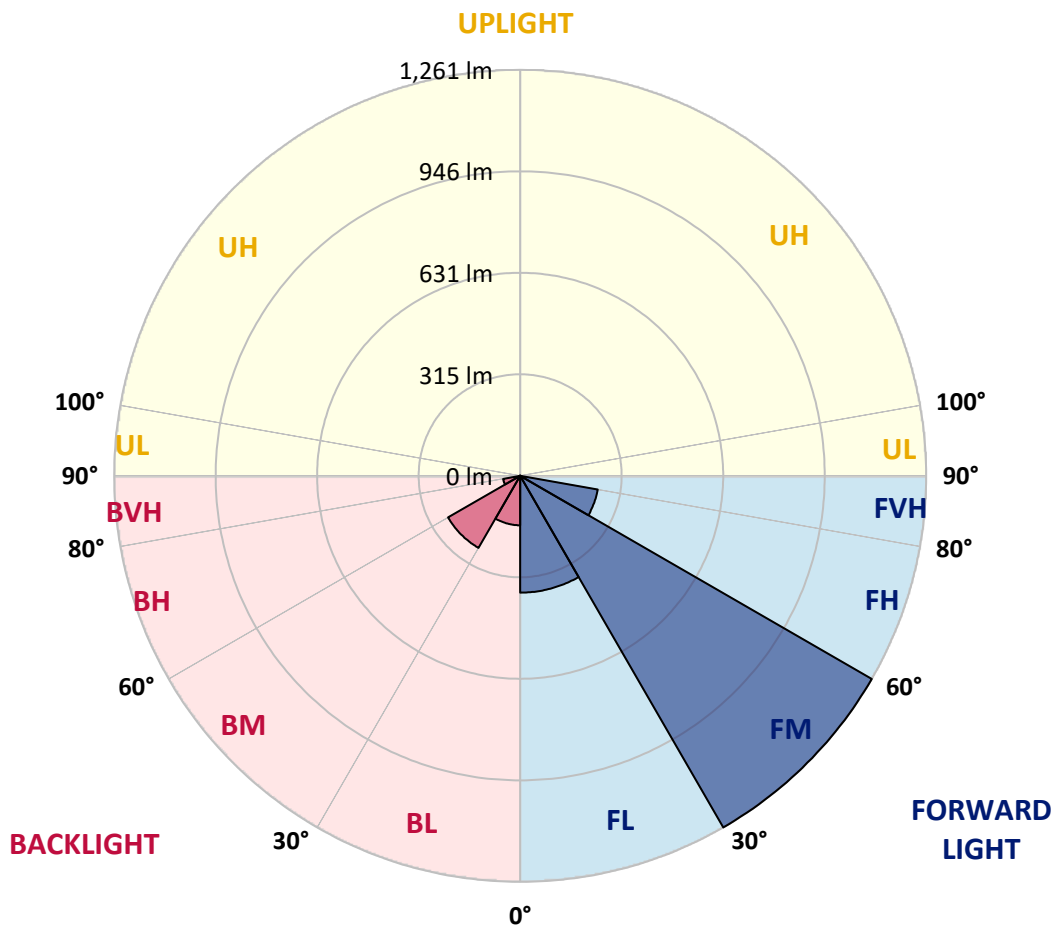
CATALOG NUMBER: GALN-SA1B-827-U-SLR-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	363.0	15.5			
FM (30°-60°)	1261.4	53.9			
FH (60°-80°)	244.7	10.5			G0/660
FVH (80°-90°)	2.1	0.1			G0/10
BL (0°-30°)	153.6	6.6	B1/500		
BM (30°-60°)	258.7	11.1	B1/1000		
BH (60°-80°)	53.8	2.3	B0/110		G0/110
BVH (80°-90°)	2.6	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0

Type III Short





REPORT NUMBER: P526443

CATALOG NUMBER: GALN-SA1B-827-U-SLR-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1186.7	1186.7	1186.7	1186.7	1186.7	1186.7	1186.7	1186.7	1186.7	1186.7	1186.7
2.5°	1233.6	1214.5	1190.4	1170.4	1140.7	1080.8	1064.6	1045.1	1028.8	1007.0	976.4
5°	1121.7	1115.6	1104.5	1029.3	975.0	902.5	843.1	818.0	785.1	758.2	738.7
7.5°	1036.3	1012.1	976.8	901.1	814.3	736.8	670.9	632.3	588.7	573.8	547.4
10°	944.8	950.4	898.4	792.0	687.1	624.4	583.6	546.4	507.0	481.0	443.4
12.5°	915.5	897.4	857.5	726.1	636.5	578.0	528.3	482.4	440.6	398.8	362.6
15°	934.6	906.7	851.0	712.2	597.5	524.6	462.4	400.2	361.7	308.3	270.7
17.5°	1002.8	980.5	905.8	727.0	577.6	473.6	381.2	317.1	258.1	209.9	190.8
20°	1116.6	1085.0	991.2	746.1	547.8	411.8	309.2	230.3	174.6	154.1	143.5
22.5°	1228.0	1210.8	1092.4	782.8	521.4	357.0	232.1	155.1	130.5	126.7	119.8
25°	1440.2	1388.6	1247.0	849.2	500.9	305.5	175.0	124.9	110.5	107.7	108.6
27.5°	1566.4	1523.3	1390.0	893.3	478.2	266.0	148.1	114.7	104.9	98.9	96.6
30°	1687.6	1637.5	1461.1	919.3	429.5	224.2	131.4	110.0	107.7	98.9	96.1
32.5°	1780.9	1731.7	1563.7	958.3	409.5	197.3	108.2	85.9	79.9	78.9	87.3
35°	1923.9	1871.5	1651.4	979.6	394.2	183.4	93.8	76.6	69.6	66.9	67.3
37.5°	2057.2	2021.4	1732.7	988.0	377.9	179.2	84.0	68.7	62.7	60.8	60.4
40°	2168.6	2088.8	1809.7	996.8	371.0	171.3	78.0	62.7	58.5	55.7	55.7
42.5°	2219.7	2138.4	1896.1	991.7	369.1	158.8	78.0	57.6	54.3	51.5	51.1
45°	2208.5	2175.6	1934.6	989.4	369.1	146.2	71.0	56.2	51.5	47.8	46.9
47.5°	2237.3	2194.1	1982.9	999.1	361.7	137.4	59.9	59.0	48.7	44.1	43.2
50°	2242.4	2250.8	2066.9	1049.7	345.4	126.3	46.9	58.0	46.9	39.9	39.0
52°	2275.9	2223.9	2092.5	1076.6	328.2	117.9	39.5	49.7	45.0	37.1	36.2
52.5°	2229.9	2263.8	2098.5	1086.4	330.1	112.4	38.1	48.7	44.1	37.1	34.8
55°	2178.4	2210.9	2073.9	1107.3	302.7	88.2	29.7	35.3	39.9	32.5	31.1
57.5°	1893.3	1926.3	1802.3	1014.0	246.5	62.2	24.6	26.5	35.3	30.2	28.8
60°	1683.0	1659.3	1512.6	845.9	175.0	34.8	19.5	20.4	38.5	27.9	27.4
62.5°	1538.1	1487.5	1264.2	653.2	106.8	23.2	15.3	15.8	29.7	26.0	26.0
65°	1137.9	1081.3	839.9	395.1	52.5	16.2	11.6	12.5	18.6	22.3	22.3
67.5°	649.5	627.7	405.8	178.3	21.8	10.2	8.8	9.7	14.4	18.1	17.2
70°	298.5	267.9	156.0	37.6	10.2	7.0	7.0	7.9	11.6	13.5	12.5
72.5°	87.3	82.6	38.1	6.0	4.2	4.2	4.6	6.0	8.8	10.2	9.3
75°	6.5	4.2	2.8	1.9	1.9	2.8	3.7	6.0	8.8	9.7	7.9
77.5°	0.5	0.9	0.5	0.5	1.4	2.8	4.2	7.4	11.6	12.1	8.8
80°	0.5	0.5	0.0	0.5	1.4	2.8	4.6	8.4	13.0	13.9	7.4
82.5°	0.0	0.0	0.0	0.5	1.9	3.7	5.6	8.8	12.1	14.9	7.9
85°	0.0	0.0	0.0	0.5	2.8	5.1	6.5	2.3	1.4	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: P526443

CATALOG NUMBER: GALN-SA1B-827-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1186.7	1186.7	1186.7	1186.7	1186.7	1186.7	1186.7	1186.7	1186.7	1186.7	1186.7
2.5°	998.2	986.1	981.5	985.6	984.3	982.9	1008.4	1002.8	1001.9	1010.3	1008.4
5°	749.3	728.0	786.5	762.8	787.4	802.3	805.0	806.4	823.6	805.5	829.2
7.5°	533.9	539.5	539.0	554.8	583.1	608.2	623.1	611.4	610.5	608.2	598.0
10°	426.7	416.9	415.1	411.3	420.2	441.5	459.6	445.2	435.0	448.9	444.8
12.5°	348.7	335.2	327.8	312.9	313.4	327.8	327.8	327.8	338.0	345.9	351.9
15°	267.4	256.3	256.3	241.4	238.2	238.6	246.1	247.0	263.2	267.9	270.2
17.5°	187.1	181.1	188.0	194.1	190.4	191.3	194.1	195.0	197.3	195.5	200.1
20°	143.9	143.0	144.9	155.5	163.4	168.1	164.8	160.2	157.4	150.9	150.9
22.5°	122.1	124.0	127.2	136.0	146.2	149.0	145.3	134.6	126.3	125.4	125.8
25°	108.6	110.5	115.6	121.2	126.7	131.4	127.7	119.8	115.1	111.0	111.0
27.5°	100.3	101.2	104.0	108.2	112.8	116.5	115.1	111.0	105.9	104.0	99.8
30°	93.8	95.2	98.4	99.4	103.5	105.4	103.1	102.1	98.9	96.6	95.2
32.5°	90.5	90.1	92.4	93.3	93.8	95.2	92.4	93.8	93.3	89.6	88.2
35°	68.2	72.0	78.0	83.1	84.5	86.4	85.9	84.0	78.9	74.7	69.6
37.5°	61.3	63.6	66.9	71.0	76.6	78.9	78.0	73.4	67.3	64.5	63.6
40°	56.6	58.0	60.8	63.6	69.2	73.4	70.1	65.9	61.3	59.0	57.6
42.5°	52.5	52.9	54.3	57.1	61.3	67.8	62.2	56.6	54.8	53.4	52.5
45°	47.8	47.8	49.7	51.1	55.7	61.7	56.2	51.1	50.1	49.2	48.7
47.5°	44.1	44.6	45.5	47.4	51.1	55.2	51.5	47.4	45.0	44.6	43.6
50°	39.5	39.9	41.8	43.6	48.3	50.6	48.3	43.6	41.3	39.9	39.9
52°	35.7	37.1	39.0	42.7	46.0	49.7	46.9	41.8	39.0	37.6	36.7
52.5°	35.3	36.2	38.1	42.2	46.0	49.2	46.4	41.3	38.1	37.1	36.2
55°	31.6	33.0	36.2	41.3	45.5	49.2	45.5	40.9	36.2	33.9	33.0
57.5°	30.2	31.1	35.3	41.8	45.0	49.2	45.5	40.9	36.2	32.0	31.1
60°	28.8	30.6	35.3	40.4	44.6	49.7	46.0	40.4	35.3	30.2	30.2
62.5°	27.4	28.8	34.8	39.5	42.7	47.8	44.1	39.5	33.9	28.8	28.3
65°	23.7	26.0	30.6	33.0	36.7	41.3	37.6	34.4	29.7	25.5	25.1
67.5°	18.1	19.0	22.7	25.5	27.9	32.0	30.2	26.0	22.7	19.5	19.5
70°	12.5	13.5	16.2	17.6	20.0	22.3	20.9	17.6	15.3	13.5	13.0
72.5°	8.8	9.3	10.2	11.1	12.1	13.0	12.5	10.2	8.8	8.4	7.9
75°	7.0	7.9	8.4	7.9	7.4	7.0	7.0	6.0	5.1	4.6	4.6
77.5°	7.0	7.4	7.0	6.0	5.1	4.6	4.2	3.7	2.8	2.3	2.8
80°	6.0	6.0	6.0	5.1	4.6	4.2	3.7	3.2	2.8	2.3	2.3
82.5°	6.5	6.5	6.0	5.1	5.1	4.2	4.2	3.7	3.2	2.3	2.3
85°	0.0	0.0	0.0	0.9	2.3	4.2	4.2	3.7	3.2	2.8	2.8
87.5°	0.0	0.0	0.0	0.0	0.5	0.9	1.9	2.3	2.8	2.8	2.8
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: P526443

CATALOG NUMBER: GALN-SA1B-827-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1186.7	1186.7	1186.7	1186.7	1186.7	1186.7	1186.7	1186.7	1186.7	1186.7	1186.7
2.5°	1025.1	1042.8	1076.2	1109.6	1130.0	1154.2	1197.8	1221.0	1251.2	1266.1	1295.3
5°	825.9	867.7	882.6	920.6	961.5	1002.4	1067.4	1138.9	1198.3	1239.1	1292.1
7.5°	602.6	612.4	669.9	695.5	762.3	836.6	925.3	1015.4	1090.6	1157.4	1197.8
10°	451.7	487.5	523.7	572.4	626.3	702.9	787.9	887.2	984.7	1051.6	1102.6
12.5°	363.1	391.4	439.7	492.1	558.5	609.1	694.5	793.0	919.3	984.7	1052.0
15°	274.8	311.1	365.8	420.2	490.3	543.7	630.0	754.0	916.5	1006.5	1064.6
17.5°	203.8	228.4	277.6	338.5	410.0	485.2	601.7	749.8	947.6	1054.8	1114.7
20°	156.0	164.4	195.5	249.8	327.3	425.7	555.7	767.9	1039.5	1172.3	1233.1
22.5°	126.3	130.0	142.1	179.7	254.9	373.7	533.9	780.4	1143.0	1313.0	1394.2
25°	110.0	109.1	117.0	133.2	199.2	325.0	506.1	827.8	1269.8	1478.2	1551.1
27.5°	100.3	100.3	104.0	115.6	165.3	293.4	488.4	861.7	1397.5	1623.6	1663.0
30°	95.2	96.1	106.8	110.5	137.4	255.8	459.2	896.0	1519.6	1716.4	1770.7
32.5°	88.2	84.5	82.2	91.5	115.6	221.9	429.9	910.4	1618.4	1830.2	1876.6
35°	67.8	65.9	68.7	75.7	99.4	193.1	397.4	926.7	1732.2	1962.0	1971.3
37.5°	61.3	60.8	62.7	68.7	83.6	168.1	374.2	922.5	1819.0	2071.1	2046.0
40°	56.6	56.6	58.0	63.1	74.7	150.4	350.1	918.8	1903.0	2193.7	2120.3
42.5°	52.9	52.9	55.2	58.5	71.0	138.8	332.0	913.7	1973.6	2268.9	2164.0
45°	47.8	49.2	52.9	56.2	72.0	130.9	318.5	894.2	1997.8	2268.0	2143.1
47.5°	44.1	46.0	49.7	54.3	65.0	128.6	309.2	877.0	1989.4	2212.2	2077.6
50°	39.9	42.2	47.4	55.2	55.2	124.0	299.5	892.3	1983.4	2169.1	2014.9
52°	37.1	39.0	45.5	53.9	48.3	114.2	293.4	922.0	2008.0	2163.5	1987.1
52.5°	36.7	38.1	44.1	52.9	46.0	112.4	289.2	929.0	2015.9	2149.6	2006.1
55°	32.5	34.4	40.4	41.3	37.6	92.4	275.8	944.8	1976.9	2122.2	1988.0
57.5°	30.6	31.6	35.7	33.9	32.5	69.6	237.2	920.2	1755.9	1884.9	1849.7
60°	28.3	29.2	33.4	26.5	27.4	48.7	178.3	799.0	1410.0	1570.6	1634.2
62.5°	27.4	26.9	31.6	21.4	23.2	35.3	125.8	649.5	1086.4	1293.0	1403.0
65°	24.1	23.7	22.7	18.1	20.0	27.4	75.2	423.9	765.6	978.2	1038.6
67.5°	18.6	19.5	16.7	14.4	16.7	21.4	41.8	189.9	401.6	586.8	635.6
70°	13.0	13.9	13.5	12.5	14.9	17.6	24.1	65.0	166.2	308.3	339.8
72.5°	7.9	9.7	10.2	10.7	13.0	15.3	17.2	20.9	44.1	109.1	135.6
75°	4.6	6.5	7.9	9.3	10.7	13.0	14.4	14.9	15.3	20.4	33.0
77.5°	3.2	4.6	7.0	8.8	10.7	13.0	15.3	16.2	15.3	14.4	15.3
80°	2.8	4.6	6.5	8.4	11.1	13.5	15.3	15.3	14.9	13.0	13.9
82.5°	2.8	4.6	7.0	8.8	10.7	13.0	14.9	15.3	13.9	13.0	13.5
85°	3.2	5.1	7.4	9.3	11.6	10.7	9.7	7.9	7.4	6.0	6.5
87.5°	3.2	4.6	4.6	5.1	5.6	5.6	5.6	5.1	4.2	3.7	3.7
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: P526443

CATALOG NUMBER: GALN-SA1B-827-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1186.7	1186.7	1186.7	1186.7	1186.7	1186.7	1186.7	1186.7	1186.7	1186.7
2.5°	1296.7	1333.8	1332.5	1333.4	1327.8	1290.2	1272.1	1226.1	1239.1	1233.6
5°	1346.4	1383.1	1414.6	1410.9	1368.2	1317.1	1241.5	1170.0	1150.5	1121.7
7.5°	1296.7	1384.9	1414.2	1410.0	1346.8	1281.4	1160.7	1089.2	1055.3	1036.3
10°	1217.8	1319.9	1356.1	1363.6	1320.8	1221.5	1110.5	995.9	977.8	944.8
12.5°	1172.7	1247.0	1269.3	1289.3	1274.4	1200.1	1072.5	962.4	937.4	915.5
15°	1136.1	1180.2	1189.5	1212.2	1221.0	1181.1	1092.4	998.6	936.9	934.6
17.5°	1170.0	1151.9	1118.0	1124.9	1152.8	1181.6	1144.0	1070.1	1010.3	1002.8
20°	1226.1	1146.3	1069.7	1086.9	1110.1	1198.3	1222.0	1170.0	1135.6	1116.6
22.5°	1290.7	1156.0	1054.4	1062.7	1106.8	1235.9	1348.2	1319.5	1255.4	1228.0
25°	1410.0	1183.0	1066.4	1072.0	1132.4	1288.4	1462.5	1483.8	1445.7	1440.2
27.5°	1526.5	1252.6	1092.9	1080.4	1145.4	1339.4	1531.6	1646.3	1579.4	1566.4
30°	1585.9	1309.2	1132.4	1111.0	1199.2	1370.5	1573.4	1752.2	1693.7	1687.6
32.5°	1676.9	1360.8	1163.0	1135.6	1229.4	1409.1	1651.4	1867.8	1811.1	1780.9
35°	1715.0	1417.0	1230.3	1198.3	1315.7	1462.9	1691.3	1970.8	1953.2	1923.9
37.5°	1788.4	1477.3	1309.7	1307.8	1420.2	1533.0	1763.3	2111.0	2107.8	2057.2
40°	1794.4	1543.2	1435.1	1493.6	1581.8	1655.1	1826.4	2150.0	2203.0	2168.6
42.5°	1803.7	1658.8	1651.9	1700.2	1775.8	1760.0	1828.8	2159.3	2240.1	2219.7
45°	1807.9	1774.4	1872.4	1961.5	1993.1	1897.5	1806.9	2141.7	2259.6	2208.5
47.5°	1774.4	1873.8	2050.7	2222.9	2232.2	1982.0	1797.7	2123.6	2271.2	2237.3
50°	1779.1	1936.0	2204.8	2359.0	2325.1	2056.7	1783.3	2112.4	2265.2	2242.4
52°	1767.9	1937.4	2226.6	2356.2	2332.5	2015.4	1758.7	2069.7	2259.6	2275.9
52.5°	1780.5	1929.0	2203.9	2358.0	2327.4	2035.8	1755.4	2093.4	2262.9	2229.9
55°	1737.3	1829.7	2070.6	2136.1	2131.5	1847.8	1655.6	2014.9	2177.9	2178.4
57.5°	1570.2	1585.9	1624.0	1622.6	1601.3	1452.7	1416.0	1852.9	1941.6	1893.3
60°	1383.5	1161.1	1058.5	1016.8	993.1	968.9	1252.6	1695.1	1703.4	1683.0
62.5°	1195.5	805.0	668.5	656.9	662.5	750.7	1210.8	1632.4	1582.2	1538.1
65°	964.8	586.8	485.6	470.3	524.6	619.8	980.1	1251.7	1174.6	1137.9
67.5°	605.9	428.1	328.2	299.5	364.9	426.7	643.9	786.5	700.1	649.5
70°	359.3	239.1	148.6	133.2	150.0	227.5	360.7	392.3	324.5	298.5
72.5°	141.6	87.7	41.3	35.3	36.7	79.9	132.8	129.5	98.0	87.3
75°	38.1	26.5	14.4	11.6	9.7	14.9	21.4	13.9	5.1	6.5
77.5°	17.6	15.8	12.5	9.7	7.4	5.6	2.8	0.9	0.9	0.5
80°	15.3	13.5	11.6	9.7	7.4	4.6	2.3	0.5	0.5	0.5
82.5°	14.4	12.5	10.7	8.8	7.0	4.6	2.3	0.5	0.0	0.0
85°	6.0	7.9	8.8	8.4	7.4	4.6	2.3	0.5	0.0	0.0
87.5°	3.2	2.8	2.3	1.9	1.4	0.9	0.9	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

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