

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: P527145

Luminaire Tested: **GALN-SA2A-827-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527145
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-SA2A-827-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH 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: 3737 lumens
Efficiency: N/A
Efficacy: 59.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G0

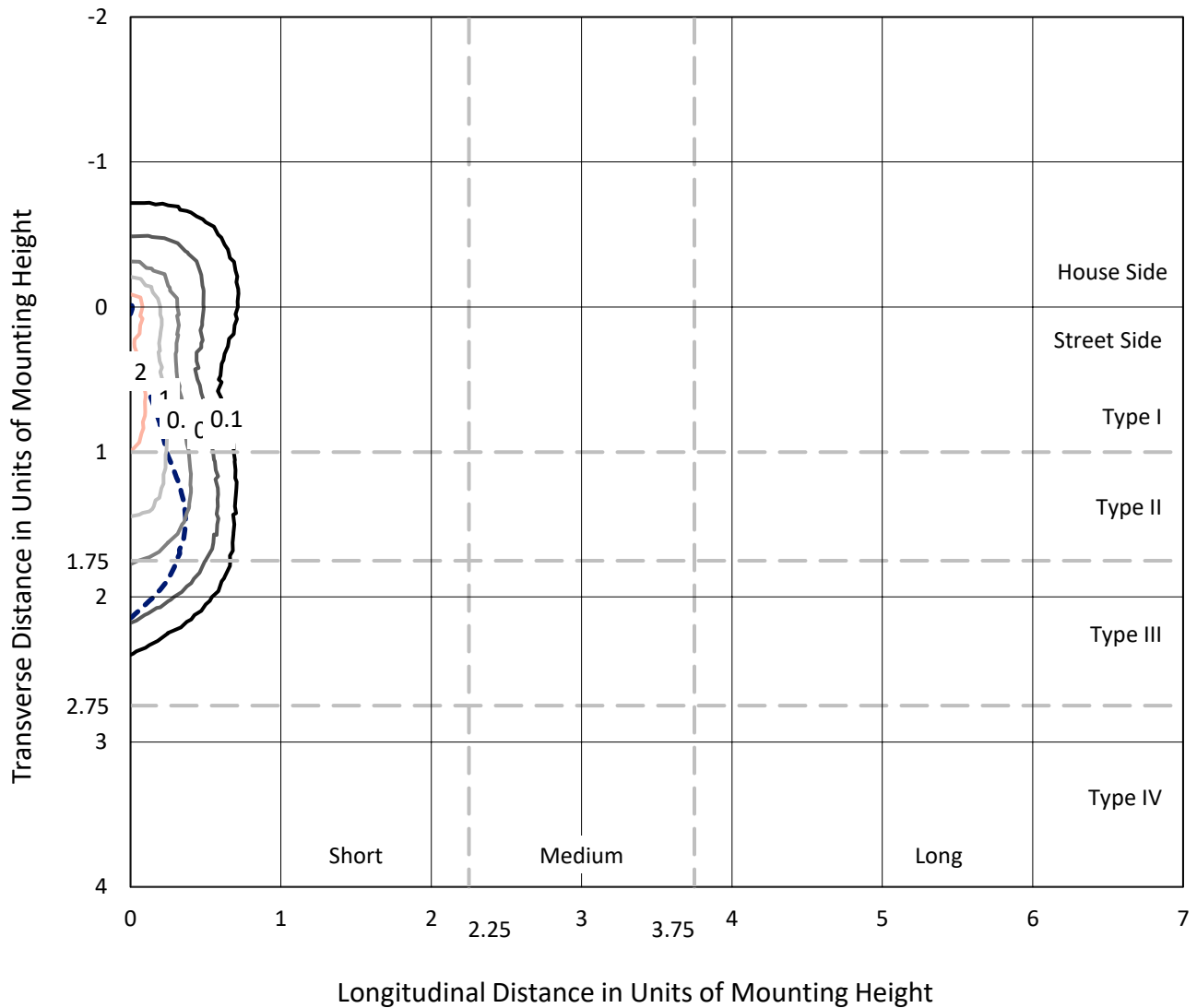
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P527145
 CATALOG NUMBER: GALN-SA2A-827-U-SLR-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

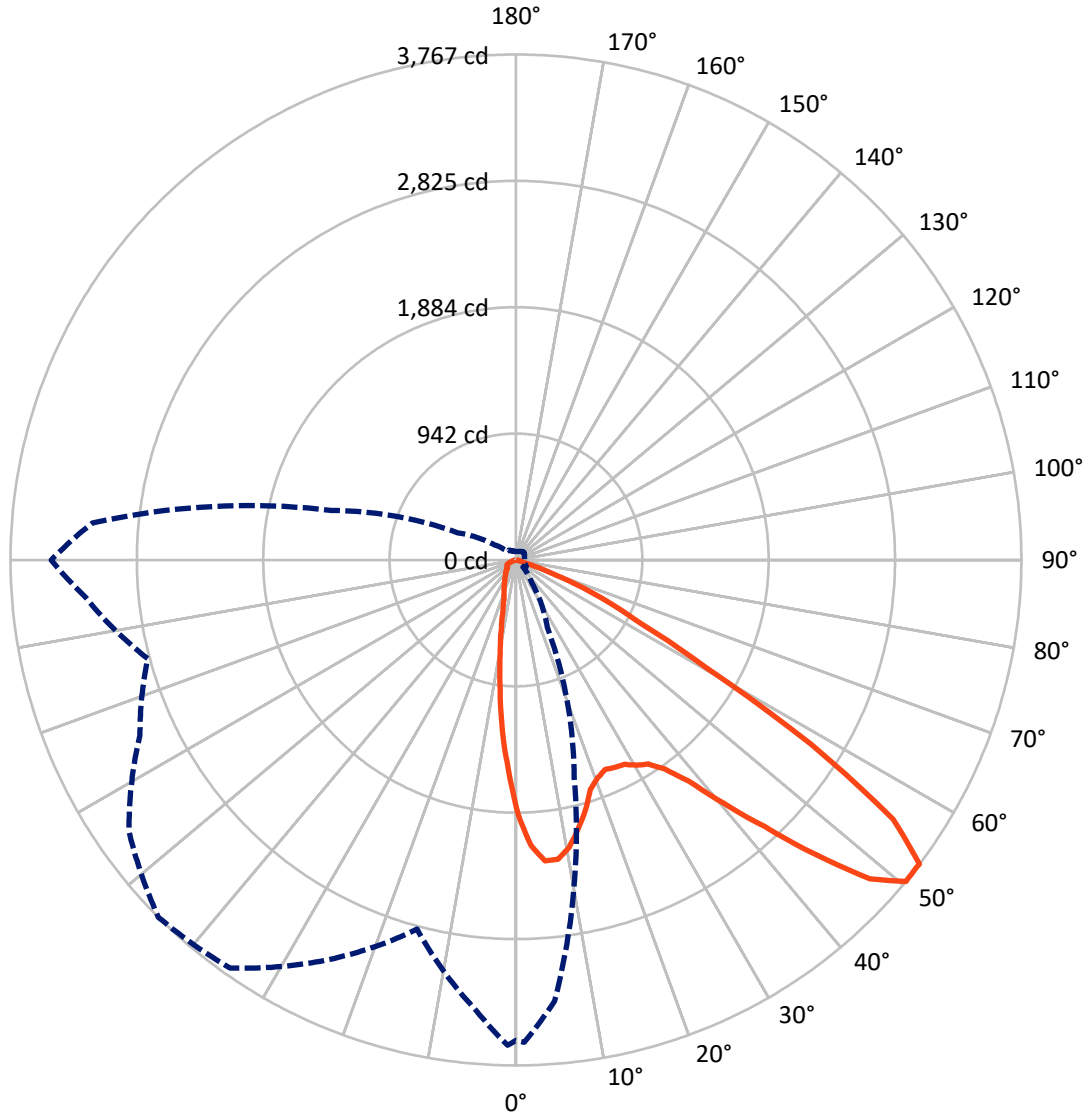
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type III - Short - N/A

REPORT NUMBER: P527145
CATALOG NUMBER: GALN-SA2A-827-U-SLR-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical



REPORT NUMBER: P527145
 CATALOG NUMBER: GALN-SA2A-827-U-SLR-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	748.5	0.0	748.5
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	2988.5	0.0	2988.5
	% Fixture	80.0	0.0	80.0
Total	Lumens	3737.0	0.0	3737.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.1	3.7
10°-20°	274.5	7.3
20°-30°	412.4	11.0
30°-40°	619.1	16.6
40°-50°	870.0	23.3
50°-60°	938.5	25.1
60°-70°	435.7	11.7
70°-80°	41.0	1.1
80°-90°	7.6	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°	3737.0	100.0
0°-180°	3737.0	100.0

Coefficient of Utilization



REPORT NUMBER: P527145

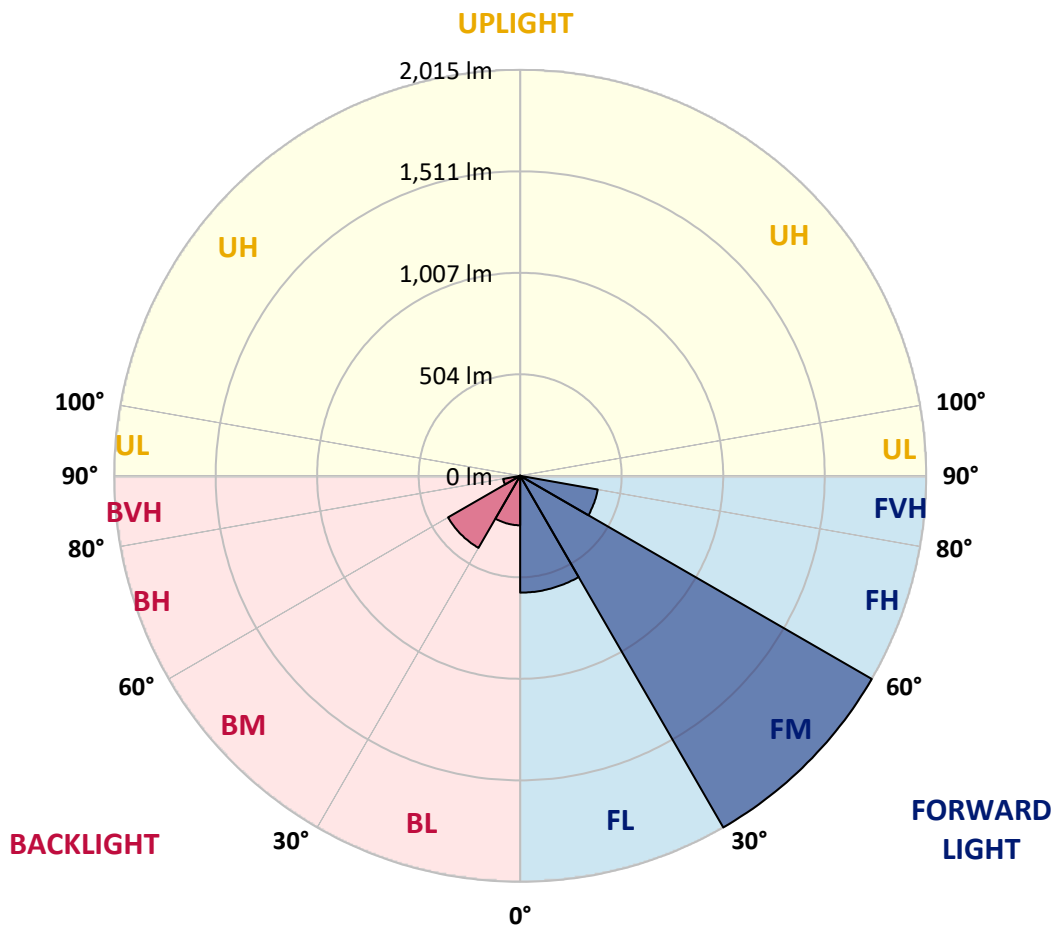
CATALOG NUMBER: GALN-SA2A-827-U-SLR-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	579.8	15.5			
FM (30°-60°)	2014.5	53.9			
FH (60°-80°)	390.8	10.5			G0/660
FVH (80°-90°)	3.4	0.1			G0/10
BL (0°-30°)	245.3	6.6	B1/500		
BM (30°-60°)	413.1	11.1	B1/1000		
BH (60°-80°)	85.9	2.3	B0/110		G0/110
BVH (80°-90°)	4.2	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: P527145

CATALOG NUMBER: GALN-SA2A-827-U-SLR-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1895.1	1895.1	1895.1	1895.1	1895.1	1895.1	1895.1	1895.1	1895.1	1895.1	1895.1
2.5°	1970.0	1939.6	1901.1	1869.2	1821.7	1726.1	1700.1	1669.0	1643.0	1608.2	1559.3
5°	1791.3	1781.7	1763.9	1643.8	1557.0	1441.4	1346.5	1306.4	1253.8	1210.8	1179.6
7.5°	1654.9	1616.3	1560.0	1439.1	1300.5	1176.7	1071.4	1009.8	940.2	916.4	874.2
10°	1508.8	1517.7	1434.7	1264.9	1097.3	997.2	932.0	872.7	809.7	768.1	708.1
12.5°	1462.1	1433.2	1369.4	1159.6	1016.5	923.1	843.8	770.4	703.6	636.9	579.1
15°	1492.5	1448.0	1359.1	1137.4	954.2	837.8	738.5	639.1	577.6	492.3	432.3
17.5°	1601.5	1565.9	1446.6	1161.1	922.4	756.3	608.7	506.4	412.2	335.1	304.7
20°	1783.2	1732.8	1583.0	1191.5	874.9	657.7	493.8	367.8	278.8	246.2	229.1
22.5°	1961.1	1933.7	1744.6	1250.1	832.6	570.2	370.7	247.6	208.3	202.4	191.3
25°	2300.0	2217.7	1991.5	1356.1	800.0	487.9	279.5	199.4	176.5	172.0	173.5
27.5°	2501.6	2432.7	2219.9	1426.5	763.7	424.8	236.5	183.1	167.6	157.9	154.2
30°	2695.1	2615.1	2333.3	1468.1	685.8	358.1	209.8	175.7	172.0	157.9	153.5
32.5°	2844.2	2765.6	2497.2	1530.3	654.0	315.1	172.8	137.2	127.5	126.0	139.4
35°	3072.5	2988.8	2637.3	1564.4	629.5	292.9	149.8	122.3	111.2	106.8	107.5
37.5°	3285.3	3228.2	2767.1	1577.8	603.5	286.2	134.2	109.7	100.1	97.1	96.4
40°	3463.3	3335.8	2890.1	1591.9	592.4	273.6	124.6	100.1	93.4	89.0	89.0
42.5°	3544.8	3415.1	3028.1	1583.7	589.4	253.6	124.6	91.9	86.7	82.3	81.6
45°	3527.0	3474.4	3089.6	1580.0	589.4	233.6	113.4	89.7	82.3	76.4	74.9
47.5°	3573.0	3504.1	3166.7	1595.6	577.6	219.5	95.6	94.2	77.9	70.4	69.0
50°	3581.2	3594.5	3300.9	1676.4	551.6	201.7	74.9	92.7	74.9	63.8	62.3
52°	3634.6	3551.5	3341.7	1719.4	524.2	188.3	63.0	79.3	71.9	59.3	57.8
52.5°	3561.2	3615.3	3351.3	1735.0	527.2	179.4	60.8	77.9	70.4	59.3	55.6
55°	3478.9	3530.8	3312.0	1768.3	483.4	140.9	47.5	56.3	63.8	51.9	49.7
57.5°	3023.6	3076.2	2878.3	1619.3	393.7	99.4	39.3	42.3	56.3	48.2	46.0
60°	2687.7	2649.9	2415.6	1350.9	279.5	55.6	31.1	32.6	61.5	44.5	43.7
62.5°	2456.4	2375.6	2019.0	1043.2	170.5	37.1	24.5	25.2	47.5	41.5	41.5
65°	1817.3	1726.8	1341.3	631.0	83.8	26.0	18.5	20.0	29.7	35.6	35.6
67.5°	1037.3	1002.4	648.0	284.7	34.8	16.3	14.1	15.6	23.0	28.9	27.4
70°	476.7	427.8	249.1	60.1	16.3	11.1	11.1	12.6	18.5	21.5	20.0
72.5°	139.4	132.0	60.8	9.6	6.7	6.7	7.4	9.6	14.1	16.3	14.8
75°	10.4	6.7	4.4	3.0	3.0	4.4	5.9	9.6	14.1	15.6	12.6
77.5°	0.7	1.5	0.7	0.7	2.2	4.4	6.7	11.9	18.5	19.3	14.1
80°	0.7	0.7	0.0	0.7	2.2	4.4	7.4	13.3	20.8	22.2	11.9
82.5°	0.0	0.0	0.0	0.7	3.0	5.9	8.9	14.1	19.3	23.7	12.6
85°	0.0	0.0	0.0	0.7	4.4	8.2	10.4	3.7	2.2	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: P527145

CATALOG NUMBER: GALN-SA2A-827-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1895.1	1895.1	1895.1	1895.1	1895.1	1895.1	1895.1	1895.1	1895.1	1895.1	1895.1
2.5°	1594.1	1574.8	1567.4	1574.1	1571.9	1569.6	1610.4	1601.5	1600.0	1613.4	1610.4
5°	1196.7	1162.6	1256.0	1218.2	1257.5	1281.2	1285.7	1287.9	1315.3	1286.4	1324.2
7.5°	852.7	861.6	860.8	886.0	931.3	971.3	995.0	976.5	975.0	971.3	955.0
10°	681.4	665.8	662.9	656.9	671.0	705.1	734.0	711.0	694.7	717.0	710.3
12.5°	556.8	535.3	523.5	499.7	500.5	523.5	523.5	523.5	539.8	552.4	562.0
15°	427.1	409.3	409.3	385.6	380.4	381.1	393.0	394.4	420.4	427.8	431.5
17.5°	298.8	289.2	300.3	309.9	304.0	305.5	309.9	311.4	315.1	312.1	319.6
20°	229.8	228.4	231.3	248.4	261.0	268.4	263.2	255.8	251.3	241.0	241.0
22.5°	195.0	198.0	203.2	217.2	233.6	238.0	232.1	215.0	201.7	200.2	200.9
25°	173.5	176.5	184.6	193.5	202.4	209.8	203.9	191.3	183.9	177.2	177.2
27.5°	160.2	161.6	166.1	172.8	180.2	186.1	183.9	177.2	169.0	166.1	159.4
30°	149.8	152.0	157.2	158.7	165.3	168.3	164.6	163.1	157.9	154.2	152.0
32.5°	144.6	143.8	147.5	149.0	149.8	152.0	147.5	149.8	149.0	143.1	140.9
35°	109.0	114.9	124.6	132.7	134.9	137.9	137.2	134.2	126.0	119.4	111.2
37.5°	97.9	101.6	106.8	113.4	122.3	126.0	124.6	117.1	107.5	103.1	101.6
40°	90.5	92.7	97.1	101.6	110.5	117.1	112.0	105.3	97.9	94.2	91.9
42.5°	83.8	84.5	86.7	91.2	97.9	108.3	99.4	90.5	87.5	85.3	83.8
45°	76.4	76.4	79.3	81.6	89.0	98.6	89.7	81.6	80.1	78.6	77.9
47.5°	70.4	71.2	72.7	75.6	81.6	88.2	82.3	75.6	71.9	71.2	69.7
50°	63.0	63.8	66.7	69.7	77.1	80.8	77.1	69.7	66.0	63.8	63.8
52°	57.1	59.3	62.3	68.2	73.4	79.3	74.9	66.7	62.3	60.1	58.6
52.5°	56.3	57.8	60.8	67.5	73.4	78.6	74.1	66.0	60.8	59.3	57.8
55°	50.4	52.6	57.8	66.0	72.7	78.6	72.7	65.2	57.8	54.1	52.6
57.5°	48.2	49.7	56.3	66.7	71.9	78.6	72.7	65.2	57.8	51.2	49.7
60°	46.0	48.9	56.3	64.5	71.2	79.3	73.4	64.5	56.3	48.2	48.2
62.5°	43.7	46.0	55.6	63.0	68.2	76.4	70.4	63.0	54.1	46.0	45.2
65°	37.8	41.5	48.9	52.6	58.6	66.0	60.1	54.9	47.5	40.8	40.0
67.5°	28.9	30.4	36.3	40.8	44.5	51.2	48.2	41.5	36.3	31.1	31.1
70°	20.0	21.5	26.0	28.2	31.9	35.6	33.4	28.2	24.5	21.5	20.8
72.5°	14.1	14.8	16.3	17.8	19.3	20.8	20.0	16.3	14.1	13.3	12.6
75°	11.1	12.6	13.3	12.6	11.9	11.1	11.1	9.6	8.2	7.4	7.4
77.5°	11.1	11.9	11.1	9.6	8.2	7.4	6.7	5.9	4.4	3.7	4.4
80°	9.6	9.6	9.6	8.2	7.4	6.7	5.9	5.2	4.4	3.7	3.7
82.5°	10.4	10.4	9.6	8.2	8.2	6.7	6.7	5.9	5.2	3.7	3.7
85°	0.0	0.0	0.0	1.5	3.7	6.7	6.7	5.9	5.2	4.4	4.4
87.5°	0.0	0.0	0.0	0.0	0.7	1.5	3.0	3.7	4.4	4.4	4.4
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: P527145

CATALOG NUMBER: GALN-SA2A-827-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1895.1	1895.1	1895.1	1895.1	1895.1	1895.1	1895.1	1895.1	1895.1	1895.1	1895.1
2.5°	1637.1	1665.3	1718.7	1772.1	1804.7	1843.2	1912.9	1950.0	1998.2	2021.9	2068.6
5°	1319.0	1385.8	1409.5	1470.3	1535.5	1600.8	1704.6	1818.8	1913.7	1978.9	2063.4
7.5°	962.4	978.0	1069.9	1110.7	1217.5	1336.1	1477.7	1621.5	1741.7	1848.4	1912.9
10°	721.4	778.5	836.3	914.2	1000.2	1122.5	1258.2	1416.9	1572.6	1679.4	1760.9
12.5°	579.8	625.0	702.1	785.9	892.0	972.8	1109.2	1266.4	1468.1	1572.6	1680.1
15°	438.9	496.8	584.3	671.0	783.0	868.2	1006.1	1204.1	1463.6	1607.4	1700.1
17.5°	325.5	364.8	443.4	540.5	654.7	774.8	960.9	1197.4	1513.3	1684.6	1780.2
20°	249.1	262.5	312.1	398.9	522.7	679.9	887.5	1226.3	1660.1	1872.1	1969.3
22.5°	201.7	207.6	226.9	286.9	407.1	596.9	852.7	1246.4	1825.4	2096.8	2226.6
25°	175.7	174.2	186.8	212.8	318.1	519.0	808.2	1322.0	2027.8	2360.8	2477.2
27.5°	160.2	160.2	166.1	184.6	264.0	468.6	780.0	1376.1	2231.7	2592.8	2655.9
30°	152.0	153.5	170.5	176.5	219.5	408.5	733.3	1431.0	2426.7	2741.1	2827.9
32.5°	140.9	134.9	131.2	146.1	184.6	354.4	686.6	1454.0	2584.7	2922.8	2996.9
35°	108.3	105.3	109.7	120.9	158.7	308.4	634.7	1479.9	2766.3	3133.3	3148.2
37.5°	97.9	97.1	100.1	109.7	133.5	268.4	597.6	1473.2	2905.0	3307.6	3267.5
40°	90.5	90.5	92.7	100.8	119.4	240.2	559.0	1467.3	3039.2	3503.3	3386.2
42.5°	84.5	84.5	88.2	93.4	113.4	221.7	530.1	1459.2	3151.9	3623.4	3455.9
45°	76.4	78.6	84.5	89.7	114.9	209.1	508.6	1428.0	3190.4	3622.0	3422.5
47.5°	70.4	73.4	79.3	86.7	103.8	205.4	493.8	1400.6	3177.1	3533.0	3318.0
50°	63.8	67.5	75.6	88.2	88.2	198.0	478.2	1425.1	3167.4	3464.0	3217.9
52°	59.3	62.3	72.7	86.0	77.1	182.4	468.6	1472.5	3206.7	3455.1	3173.4
52.5°	58.6	60.8	70.4	84.5	73.4	179.4	461.9	1483.6	3219.3	3432.9	3203.8
55°	51.9	54.9	64.5	66.0	60.1	147.5	440.4	1508.8	3157.1	3389.1	3174.9
57.5°	48.9	50.4	57.1	54.1	51.9	111.2	378.9	1469.5	2804.1	3010.3	2953.9
60°	45.2	46.7	53.4	42.3	43.7	77.9	284.7	1276.0	2251.8	2508.3	2609.9
62.5°	43.7	43.0	50.4	34.1	37.1	56.3	200.9	1037.3	1735.0	2064.9	2240.6
65°	38.6	37.8	36.3	28.9	31.9	43.7	120.1	676.9	1222.6	1562.2	1658.6
67.5°	29.7	31.1	26.7	23.0	26.7	34.1	66.7	303.3	641.3	937.2	1015.0
70°	20.8	22.2	21.5	20.0	23.7	28.2	38.6	103.8	265.4	492.3	542.7
72.5°	12.6	15.6	16.3	17.1	20.8	24.5	27.4	33.4	70.4	174.2	216.5
75°	7.4	10.4	12.6	14.8	17.1	20.8	23.0	23.7	24.5	32.6	52.6
77.5°	5.2	7.4	11.1	14.1	17.1	20.8	24.5	26.0	24.5	23.0	24.5
80°	4.4	7.4	10.4	13.3	17.8	21.5	24.5	24.5	23.7	20.8	22.2
82.5°	4.4	7.4	11.1	14.1	17.1	20.8	23.7	24.5	22.2	20.8	21.5
85°	5.2	8.2	11.9	14.8	18.5	17.1	15.6	12.6	11.9	9.6	10.4
87.5°	5.2	7.4	7.4	8.2	8.9	8.9	8.9	8.2	6.7	5.9	5.9
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: P527145

CATALOG NUMBER: GALN-SA2A-827-U-SLR-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1895.1	1895.1	1895.1	1895.1	1895.1	1895.1	1895.1	1895.1	1895.1	1895.1
2.5°	2070.9	2130.2	2127.9	2129.4	2120.5	2060.5	2031.6	1958.2	1978.9	1970.0
5°	2150.2	2208.8	2259.2	2253.2	2185.0	2103.5	1982.6	1868.4	1837.3	1791.3
7.5°	2070.9	2211.7	2258.4	2251.8	2150.9	2046.4	1853.6	1739.4	1685.3	1654.9
10°	1944.8	2107.9	2165.8	2177.6	2109.4	1950.7	1773.5	1590.4	1561.5	1508.8
12.5°	1872.9	1991.5	2027.1	2059.0	2035.3	1916.6	1712.7	1537.0	1497.0	1462.1
15°	1814.3	1884.7	1899.6	1935.9	1950.0	1886.2	1744.6	1594.8	1496.2	1492.5
17.5°	1868.4	1839.5	1785.4	1796.5	1841.0	1887.0	1826.9	1709.0	1613.4	1601.5
20°	1958.2	1830.6	1708.3	1735.7	1772.8	1913.7	1951.5	1868.4	1813.6	1783.2
22.5°	2061.2	1846.2	1683.8	1697.2	1767.6	1973.7	2153.2	2107.2	2004.9	1961.1
25°	2251.8	1889.2	1703.1	1712.0	1808.4	2057.5	2335.5	2369.7	2308.9	2300.0
27.5°	2437.9	2000.4	1745.4	1725.3	1829.1	2139.1	2446.0	2629.2	2522.4	2501.6
30°	2532.8	2090.9	1808.4	1774.3	1915.1	2188.7	2512.8	2798.2	2704.8	2695.1
32.5°	2678.1	2173.2	1857.3	1813.6	1963.3	2250.3	2637.3	2982.8	2892.4	2844.2
35°	2738.9	2262.9	1964.8	1913.7	2101.3	2336.3	2701.1	3147.4	3119.3	3072.5
37.5°	2856.0	2359.3	2091.6	2088.6	2268.1	2448.2	2816.0	3371.3	3366.2	3285.3
40°	2865.7	2464.6	2291.8	2385.2	2526.1	2643.2	2916.8	3433.6	3518.2	3463.3
42.5°	2880.5	2649.2	2638.1	2715.2	2836.0	2810.8	2920.5	3448.5	3577.5	3544.8
45°	2887.2	2833.8	2990.2	3132.6	3183.0	3030.3	2885.7	3420.3	3608.6	3527.0
47.5°	2833.8	2992.5	3275.0	3550.0	3564.9	3165.2	2870.9	3391.4	3627.1	3573.0
50°	2841.2	3091.8	3521.1	3767.3	3713.1	3284.6	2847.9	3373.6	3617.5	3581.2
52°	2823.4	3094.0	3556.0	3762.8	3725.0	3218.6	2808.6	3305.4	3608.6	3634.6
52.5°	2843.4	3080.7	3519.6	3765.8	3716.9	3251.2	2803.4	3343.2	3613.8	3561.2
55°	2774.5	2922.0	3306.8	3411.4	3404.0	2950.9	2644.0	3217.9	3478.1	3478.9
57.5°	2507.6	2532.8	2593.6	2591.3	2557.2	2320.0	2261.4	2959.1	3100.7	3023.6
60°	2209.5	1854.4	1690.5	1623.8	1585.9	1547.4	2000.4	2707.0	2720.4	2687.7
62.5°	1909.2	1285.7	1067.7	1049.1	1058.0	1198.9	1933.7	2606.9	2526.8	2456.4
65°	1540.7	937.2	775.6	751.1	837.8	989.8	1565.2	1998.9	1875.9	1817.3
67.5°	967.6	683.6	524.2	478.2	582.8	681.4	1028.4	1256.0	1118.1	1037.3
70°	573.9	381.8	237.3	212.8	239.5	363.3	576.1	626.5	518.3	476.7
72.5°	226.1	140.1	66.0	56.3	58.6	127.5	212.1	206.9	156.4	139.4
75°	60.8	42.3	23.0	18.5	15.6	23.7	34.1	22.2	8.2	10.4
77.5°	28.2	25.2	20.0	15.6	11.9	8.9	4.4	1.5	1.5	0.7
80°	24.5	21.5	18.5	15.6	11.9	7.4	3.7	0.7	0.7	0.7
82.5°	23.0	20.0	17.1	14.1	11.1	7.4	3.7	0.7	0.0	0.0
85°	9.6	12.6	14.1	13.3	11.9	7.4	3.7	0.7	0.0	0.0
87.5°	5.2	4.4	3.7	3.0	2.2	1.5	1.5	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

(END OF REPORT)