

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: P451276

Luminaire Tested: **GALN-SA2A-827-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451276
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-827-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5827 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

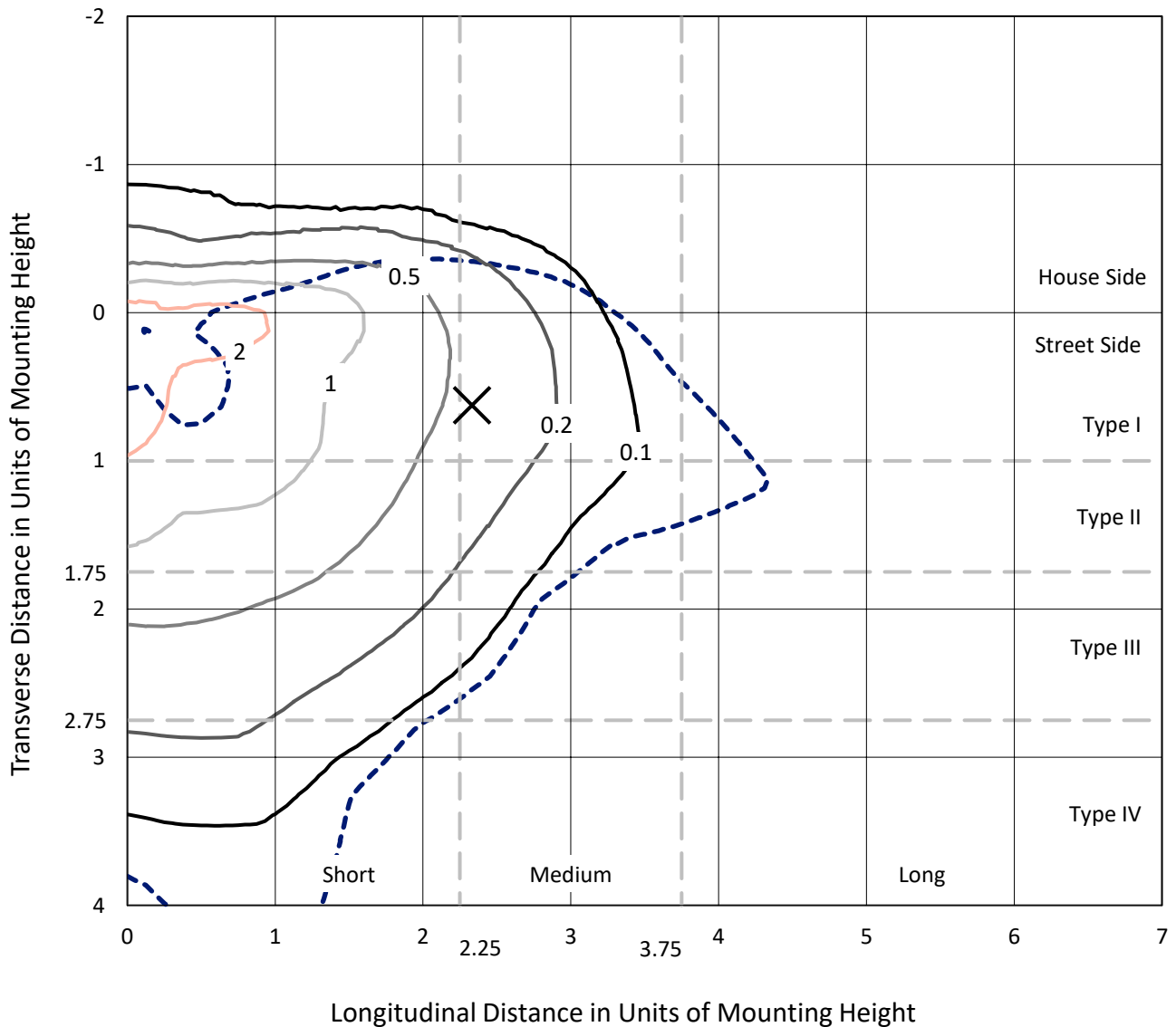
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P451276
 CATALOG NUMBER: GALN-SA2A-827-U-SLL

Iso-Footcandle Lines of Horizontal Illumination

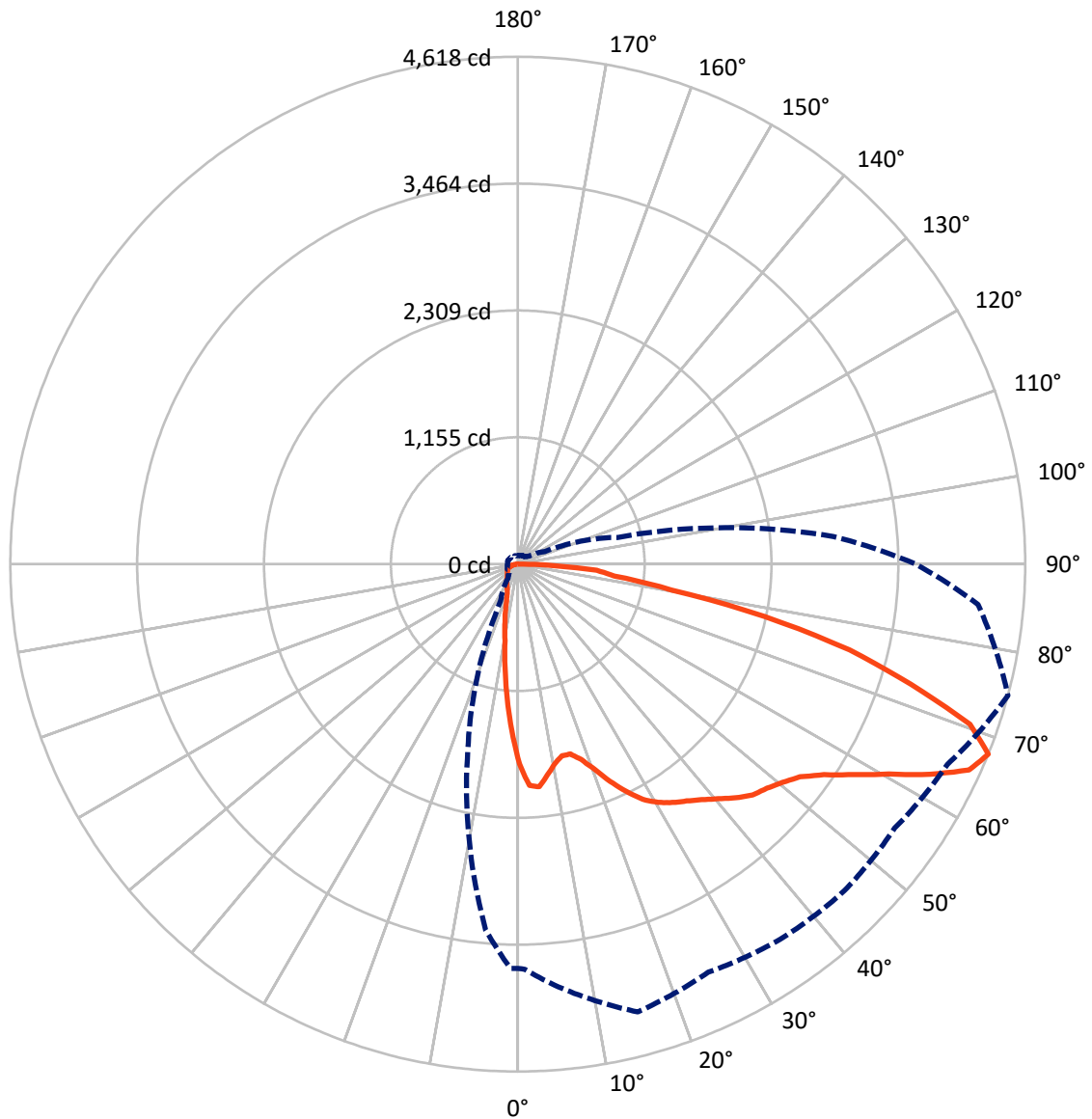
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type III - Medium - N/A

REPORT NUMBER: P451276
CATALOG NUMBER: GALN-SA2A-827-U-SLL

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P451276

CATALOG NUMBER: GALN-SA2A-827-U-SLL

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	984.9	0.0	984.9
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	4842.1	0.0	4842.1
	% Fixture	83.1	0.0	83.1
Total	Lumens	5827.0	0.0	5827.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.1	2.4
10°-20°	288.0	4.9
20°-30°	414.4	7.1
30°-40°	596.8	10.2
40°-50°	838.4	14.4
50°-60°	1169.3	20.1
60°-70°	1390.2	23.9
70°-80°	818.7	14.1
80°-90°	173.1	3.0
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°	5827.0	100.0
0°-180°	5827.0	100.0

Coefficient of Utilization



REPORT NUMBER: P451276

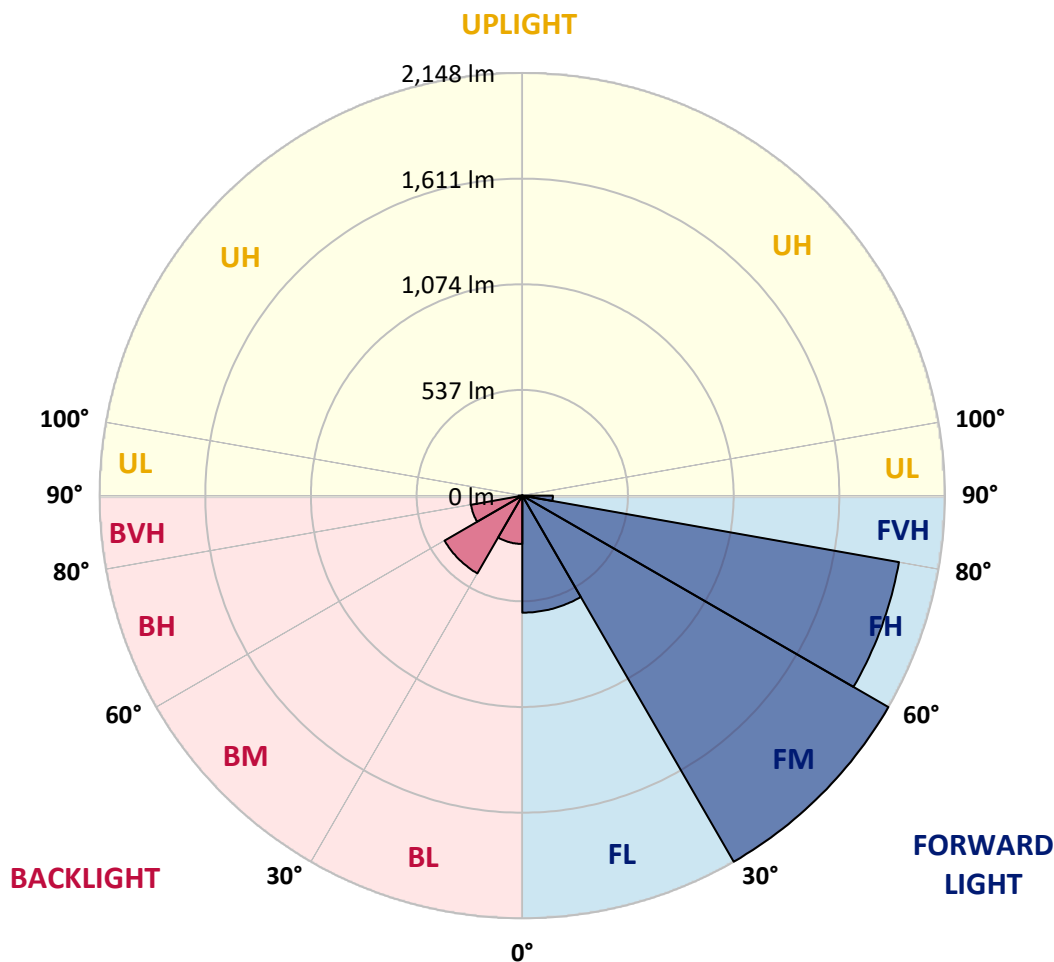
CATALOG NUMBER: GALN-SA2A-827-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	594.8	10.2			
FM	(30°-60°)	2148.2	36.9			
FH	(60°-80°)	1943.9	33.4			G2/5000
FVH	(80°-90°)	155.2	2.7			G2/225
BL	(0°-30°)	245.7	4.2	B1/500		
BM	(30°-60°)	456.3	7.8	B1/1000		
BH	(60°-80°)	265.0	4.5	B1/500		G1/500
BVH	(80°-90°)	17.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium





REPORT NUMBER: P451276

CATALOG NUMBER: GALN-SA2A-827-U-SLL

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1820.5	1820.5	1820.5	1820.5	1820.5	1820.5	1820.5	1820.5	1820.5	1820.5	1820.5
2.5°	1962.9	1965.5	1982.3	2031.2	2064.9	2077.2	2085.8	2069.7	2054.0	2015.9	1958.4
5°	1956.9	1972.2	2015.9	2125.8	2212.5	2249.8	2261.0	2212.8	2133.2	2035.3	1917.6
7.5°	1842.5	1863.1	1930.4	2114.6	2267.4	2354.8	2343.2	2256.2	2112.7	1938.2	1773.8
10°	1706.9	1729.7	1810.8	2033.5	2230.4	2350.7	2350.7	2244.6	2054.0	1846.6	1657.2
12.5°	1599.3	1623.2	1715.9	1950.2	2153.4	2267.4	2286.5	2195.3	2011.8	1788.7	1580.6
15°	1563.8	1587.0	1686.7	1899.7	2072.0	2141.5	2147.8	2117.9	1991.3	1792.8	1577.2
17.5°	1607.9	1637.8	1738.7	1914.7	1997.2	2001.3	2006.2	2029.7	1993.5	1867.9	1645.2
20°	1735.3	1767.4	1872.8	1962.9	1931.8	1889.2	1891.9	1952.4	2020.0	1992.0	1807.8
22.5°	1919.1	1947.2	2055.2	2047.7	1904.2	1816.4	1798.1	1882.5	2059.3	2146.7	1980.8
25°	2117.6	2150.4	2274.5	2173.6	1912.0	1773.0	1761.5	1841.4	2100.0	2291.3	2180.7
27.5°	2344.7	2376.9	2474.8	2300.7	1953.1	1769.7	1755.8	1837.7	2136.6	2425.1	2371.6
30°	2513.6	2543.2	2609.7	2407.5	2003.6	1792.1	1774.9	1867.2	2168.0	2516.6	2557.7
32.5°	2646.3	2676.9	2713.2	2474.0	2070.1	1832.8	1801.1	1921.0	2209.1	2586.5	2695.6
35°	2784.5	2820.8	2818.2	2533.1	2132.1	1879.9	1848.9	1998.7	2273.7	2647.4	2870.5
37.5°	2959.8	2974.4	2955.7	2586.1	2206.5	1964.7	1947.5	2114.2	2365.7	2721.0	3074.9
40°	3137.7	3166.8	3070.8	2650.4	2296.9	2124.3	2122.4	2285.0	2474.8	2807.3	3272.9
42.5°	3290.1	3314.8	3178.4	2706.5	2406.4	2319.0	2333.2	2514.0	2617.9	2907.5	3432.1
45°	3404.8	3426.9	3277.8	2760.6	2550.6	2543.9	2627.6	2759.5	2798.4	2997.5	3525.5
47.5°	3502.4	3523.7	3346.9	2842.8	2728.9	2812.6	2958.3	3015.5	2952.7	3049.1	3630.1
50°	3584.6	3590.9	3394.4	2940.7	2950.1	3141.8	3283.0	3320.0	3105.2	3123.1	3720.9
52.5°	3670.1	3661.9	3476.2	3064.0	3189.2	3454.2	3556.9	3595.4	3251.3	3214.3	3853.2
55°	3861.8	3869.7	3659.7	3219.5	3431.0	3760.9	3896.2	3859.2	3413.1	3382.0	4021.4
57.5°	4093.5	4086.8	3917.9	3462.7	3677.2	4046.4	4147.3	4087.9	3629.0	3612.6	4191.8
60°	4183.5	4192.5	4133.8	3724.3	3920.1	4296.4	4399.5	4307.2	3888.0	3880.5	4320.3
62.5°	4093.1	4143.6	4183.2	3957.1	4127.1	4480.2	4582.6	4477.2	4158.1	4212.3	4410.4
65°	3913.0	3923.8	4058.7	4154.4	4226.9	4510.5	4563.9	4507.9	4383.8	4514.6	4406.2
67.5°	3679.1	3688.4	3846.5	4219.0	4098.4	4166.7	4204.1	4187.7	4314.0	4618.1	4203.4
70°	3456.4	3448.9	3615.9	4054.3	3567.7	3463.9	3494.9	3443.3	3722.4	4365.1	3805.4
72.5°	3022.9	3049.8	3229.2	3596.1	2824.9	2656.0	2723.6	2590.2	2863.0	3738.5	3088.7
75°	2367.9	2374.3	2673.6	3018.1	2131.0	1864.6	1956.1	1900.5	2193.0	3118.6	2132.9
77.5°	1639.6	1625.4	1947.2	2305.1	1519.7	1365.0	1366.5	1340.0	1531.3	2296.2	1449.1
80°	1041.4	1019.7	1218.9	1424.0	1044.4	1117.3	1080.6	1079.5	996.9	1416.6	876.2
82.5°	562.7	586.7	770.1	892.7	749.2	863.5	791.4	768.3	684.2	886.7	560.5
85°	256.3	278.8	410.7	607.2	569.1	575.4	384.5	453.6	566.1	720.1	299.3
87.5°	25.0	32.1	84.8	286.6	194.3	153.2	57.2	110.2	142.4	256.0	23.9
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: P451276
 CATALOG NUMBER: GALN-SA2A-827-U-SLL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1820.5	1820.5	1820.5	1820.5	1820.5	1820.5	1820.5	1820.5	1820.5	1820.5	1820.5
2.5°	1934.8	1915.4	1849.3	1794.7	1736.8	1692.7	1635.2	1596.7	1570.1	1530.2	1525.3
5°	1845.9	1798.4	1683.4	1566.0	1464.8	1388.5	1311.2	1240.2	1198.3	1185.3	1168.4
7.5°	1696.1	1616.1	1468.1	1333.6	1217.4	1103.8	1016.4	954.3	912.9	888.6	859.4
10°	1572.8	1480.1	1300.0	1135.2	1039.5	968.9	891.9	825.4	774.2	730.5	706.6
12.5°	1489.8	1385.2	1182.6	1048.9	974.9	899.8	809.7	735.0	659.5	609.8	588.5
15°	1464.8	1354.2	1146.4	1005.9	899.8	801.5	700.6	603.1	528.4	481.3	465.6
17.5°	1526.0	1392.3	1146.0	948.7	811.6	694.3	565.0	473.4	396.8	361.7	350.5
20°	1640.4	1465.5	1149.4	892.3	715.9	550.8	411.0	335.9	299.3	284.4	278.8
22.5°	1799.9	1577.2	1159.5	836.6	611.3	423.0	307.9	269.8	256.7	254.1	253.0
25°	1996.5	1715.5	1193.5	786.6	523.1	322.8	257.5	240.3	232.8	230.2	229.8
27.5°	2177.3	1894.1	1234.6	743.6	437.9	278.4	232.8	218.2	210.7	210.4	211.1
30°	2340.6	2043.6	1269.0	695.4	373.3	247.4	216.7	202.2	195.1	194.7	196.9
32.5°	2481.9	2166.5	1294.4	647.9	337.4	228.3	202.2	186.5	180.5	179.4	180.5
35°	2632.8	2289.1	1282.8	610.9	316.9	212.6	191.3	176.0	168.9	165.5	165.5
37.5°	2805.1	2415.4	1263.0	580.3	307.5	199.5	182.0	167.0	159.9	156.6	156.2
40°	2993.1	2541.7	1235.7	553.0	298.2	191.7	175.6	159.9	151.3	148.0	147.2
42.5°	3159.0	2649.7	1213.3	535.1	282.9	193.2	170.0	154.7	143.9	139.4	139.0
45°	3303.2	2758.4	1209.2	524.6	270.2	190.9	168.5	150.6	137.9	133.0	132.3
47.5°	3416.0	2871.6	1232.7	518.6	256.3	179.0	178.2	148.0	132.7	127.4	126.7
50°	3553.5	3032.3	1286.5	506.3	243.6	167.8	188.3	147.6	128.5	121.8	119.9
52.5°	3736.6	3241.5	1359.4	484.3	225.3	157.3	179.7	147.6	123.7	117.0	114.7
55°	4013.5	3508.3	1430.8	453.3	199.5	143.5	162.2	143.1	116.6	110.6	109.1
57.5°	4197.0	3703.4	1476.3	410.3	167.4	133.4	139.8	136.0	109.5	103.1	103.1
60°	4206.3	3755.7	1454.7	356.1	147.2	124.1	121.4	137.1	103.1	96.4	95.7
62.5°	4098.7	3627.5	1341.8	307.5	136.4	114.0	109.9	120.3	96.8	90.1	88.9
65°	3930.6	3300.6	1146.0	284.4	130.4	105.0	99.0	98.6	90.1	83.7	82.2
67.5°	3621.6	2884.3	941.6	270.9	127.4	94.9	89.3	87.4	82.2	77.0	76.2
70°	3166.1	2415.7	755.2	265.3	125.9	84.4	80.0	77.7	73.2	69.1	68.8
72.5°	2463.2	1959.5	623.3	261.6	125.2	74.7	69.9	66.9	64.3	60.5	60.5
75°	1769.3	1441.6	475.7	235.8	115.8	64.3	59.0	57.2	53.4	50.4	51.2
77.5°	1115.4	970.8	313.1	173.4	89.7	51.6	47.1	46.0	43.0	38.9	41.5
80°	753.3	682.7	182.7	109.1	56.4	37.7	36.2	35.9	32.5	28.0	28.4
82.5°	512.7	503.0	94.9	62.0	32.5	22.0	21.3	22.0	18.3	14.9	14.9
85°	200.3	273.5	44.8	24.3	10.5	3.4	4.9	5.2	3.0	1.5	1.9
87.5°	3.7	28.0	1.1	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: P451276
 CATALOG NUMBER: GALN-SA2A-827-U-SLL

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1820.5	1820.5	1820.5	1820.5	1820.5	1820.5	1820.5	1820.5	1820.5	1820.5	1820.5
2.5°	1517.8	1514.5	1520.1	1496.2	1501.0	1510.0	1514.5	1517.1	1554.1	1545.5	1569.0
5°	1184.1	1180.8	1202.5	1205.4	1216.7	1214.4	1225.2	1227.9	1241.3	1246.2	1279.1
7.5°	861.3	875.9	900.5	913.2	932.3	938.3	932.7	946.5	918.5	938.6	944.6
10°	692.0	674.5	664.0	693.1	696.9	724.5	713.3	704.4	720.8	721.5	737.2
12.5°	576.2	538.5	513.4	521.6	530.6	542.6	544.4	562.4	574.3	585.5	594.9
15°	451.8	438.7	415.9	404.7	417.4	422.2	433.8	448.8	461.5	464.8	477.5
17.5°	346.8	349.0	345.3	338.5	346.4	350.1	350.9	351.2	354.6	352.4	371.0
20°	279.1	287.0	296.3	297.8	300.4	302.3	298.9	286.2	286.6	294.4	300.4
22.5°	252.6	254.1	264.6	267.9	276.1	272.8	263.1	257.1	256.3	258.2	261.2
25°	231.7	233.9	241.4	246.6	253.0	247.0	239.9	234.3	233.5	235.4	238.4
27.5°	213.0	216.4	223.1	228.3	234.3	228.7	222.0	217.1	216.7	216.4	218.2
30°	198.0	201.8	206.6	212.6	216.7	211.9	205.5	202.9	202.5	201.8	202.5
32.5°	183.1	189.1	193.9	196.9	201.0	197.3	192.4	190.9	188.3	186.1	185.0
35°	166.3	172.6	180.1	183.8	188.0	184.2	180.9	174.5	170.0	169.6	170.4
37.5°	156.6	159.2	165.2	171.5	175.6	173.8	167.4	161.0	159.9	159.9	160.7
40°	148.0	149.1	151.7	159.9	167.4	161.8	153.9	152.1	152.1	151.7	152.1
42.5°	139.4	140.5	140.5	146.9	158.8	149.8	143.9	143.9	143.9	144.2	145.4
45°	131.5	131.9	131.5	136.0	147.2	139.8	135.6	136.8	137.5	138.3	139.0
47.5°	124.8	125.2	124.8	128.5	134.1	131.2	128.9	130.4	131.9	133.0	133.8
50°	118.8	118.5	119.2	121.4	124.1	124.8	123.3	125.6	126.3	127.8	129.7
52.5°	113.6	113.2	114.0	115.1	118.8	118.8	118.8	120.7	122.2	123.7	126.3
55°	107.6	108.0	109.1	110.6	115.5	114.7	115.1	116.6	118.1	120.3	121.8
57.5°	102.0	102.8	104.3	106.5	111.4	111.0	111.4	112.1	114.0	115.1	116.6
60°	95.7	97.2	99.0	100.5	105.4	105.0	106.9	108.4	109.5	109.5	110.2
62.5°	89.3	91.5	93.4	94.5	99.8	100.1	102.8	103.9	104.6	103.9	105.0
65°	83.0	86.3	87.1	88.6	93.8	94.2	97.2	99.8	99.0	98.3	100.1
67.5°	76.6	80.7	80.3	82.2	87.4	88.2	90.8	95.3	93.8	93.0	94.5
70°	69.5	72.5	72.9	74.0	81.1	80.0	84.1	88.2	87.1	87.4	87.4
72.5°	61.7	64.3	64.3	66.5	74.0	72.1	75.5	80.0	80.0	79.6	79.6
75°	52.3	53.8	55.3	58.7	66.5	64.3	66.5	70.6	71.4	70.6	70.6
77.5°	42.2	44.5	45.2	49.7	55.3	54.9	57.2	59.0	60.5	59.8	59.8
80°	29.9	32.1	35.1	40.0	43.3	44.5	45.6	47.1	47.8	47.8	48.6
82.5°	16.8	20.2	22.8	27.7	29.1	34.8	34.4	35.5	34.4	30.3	33.6
85°	3.7	7.1	10.1	12.7	14.6	20.2	21.3	23.9	19.8	18.3	18.3
87.5°	0.0	0.0	0.0	0.0	0.0	3.0	6.0	8.2	7.1	6.0	6.0
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: P451276
 CATALOG NUMBER: GALN-SA2A-827-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1820.5	1820.5	1820.5	1820.5	1820.5	1820.5	1820.5	1820.5	1820.5	1820.5
2.5°	1588.8	1621.3	1660.6	1728.2	1775.7	1826.8	1878.4	1933.3	1947.9	1962.9
5°	1288.0	1351.9	1386.7	1477.5	1572.8	1693.8	1792.8	1901.2	1946.4	1956.9
7.5°	975.6	1019.0	1110.2	1202.1	1320.2	1447.2	1598.9	1767.8	1820.5	1842.5
10°	773.5	832.5	912.5	1011.1	1114.6	1251.4	1422.5	1619.8	1694.6	1706.9
12.5°	658.4	724.2	811.2	915.5	1013.4	1116.5	1289.1	1492.8	1572.8	1599.3
15°	526.5	606.1	706.6	816.5	923.0	1035.8	1210.7	1440.5	1532.8	1563.8
17.5°	413.6	477.9	586.7	705.9	832.2	974.9	1194.2	1465.5	1579.1	1607.9
20°	316.5	362.5	454.0	579.9	727.9	914.7	1198.3	1560.0	1696.1	1735.3
22.5°	273.5	297.1	352.7	472.7	638.2	862.4	1215.2	1689.7	1853.7	1919.1
25°	247.7	260.1	291.5	369.9	552.6	811.6	1253.6	1864.2	2074.2	2117.6
27.5°	225.7	234.7	254.1	310.5	474.9	764.5	1298.5	2057.8	2280.1	2344.7
30°	204.8	216.7	235.0	275.8	425.2	721.5	1354.9	2214.7	2453.5	2513.6
32.5°	188.7	200.7	217.5	251.5	383.0	676.3	1388.5	2352.6	2595.1	2646.3
35°	175.6	185.7	203.3	232.0	350.9	642.0	1381.8	2462.1	2732.2	2784.5
37.5°	166.3	174.9	192.4	213.7	326.6	606.1	1378.4	2606.7	2899.3	2959.8
40°	157.7	166.7	182.7	201.8	302.3	563.9	1380.3	2750.2	3077.1	3137.7
42.5°	151.0	161.0	174.1	198.4	277.3	529.9	1380.3	2875.0	3231.8	3290.1
45°	145.4	156.2	168.9	198.0	257.5	504.1	1371.0	2982.2	3355.1	3404.8
47.5°	140.5	152.5	170.8	191.3	252.6	485.4	1362.8	3068.2	3455.6	3502.4
50°	137.1	151.3	181.6	183.5	254.1	479.8	1402.4	3176.5	3544.2	3584.6
52.5°	134.5	151.7	181.2	171.9	251.5	483.5	1484.9	3345.8	3667.1	3670.1
55°	129.3	151.3	171.9	158.8	240.6	489.9	1591.1	3591.7	3859.6	3861.8
57.5°	124.1	147.2	159.6	147.6	218.6	489.9	1718.9	3824.5	4091.6	4093.5
60°	118.8	153.2	140.1	137.9	189.8	480.9	1853.7	3926.8	4164.5	4183.5
62.5°	113.6	154.3	125.2	129.3	168.9	459.2	1954.3	3813.6	4065.8	4093.1
65°	107.6	124.4	115.5	120.3	158.1	423.0	1922.5	3606.2	3880.5	3913.0
67.5°	100.5	105.4	105.0	111.0	154.3	369.6	1755.1	3343.9	3681.0	3679.1
70°	91.9	94.5	95.7	102.0	147.2	328.1	1462.5	3003.5	3414.5	3456.4
72.5°	83.0	85.2	86.3	91.9	140.1	304.5	1135.2	2534.6	2957.6	3022.9
75°	73.2	74.7	76.2	81.1	132.7	269.8	808.6	1934.8	2265.2	2367.9
77.5°	63.1	63.1	65.0	69.9	111.7	222.7	542.6	1357.1	1534.6	1639.6
80°	51.2	51.6	50.8	56.0	82.2	152.5	308.3	906.5	1021.2	1041.4
82.5°	39.2	38.1	38.5	41.1	61.3	103.9	164.4	563.1	573.9	562.7
85°	24.7	24.7	23.9	26.9	39.2	54.2	89.7	344.9	269.4	256.3
87.5°	10.1	8.2	9.3	10.8	18.7	22.0	35.1	71.0	27.3	25.0
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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