

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: P452989

Luminaire Tested: **GALN-SA4A-727-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452989
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4A-727-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13041 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

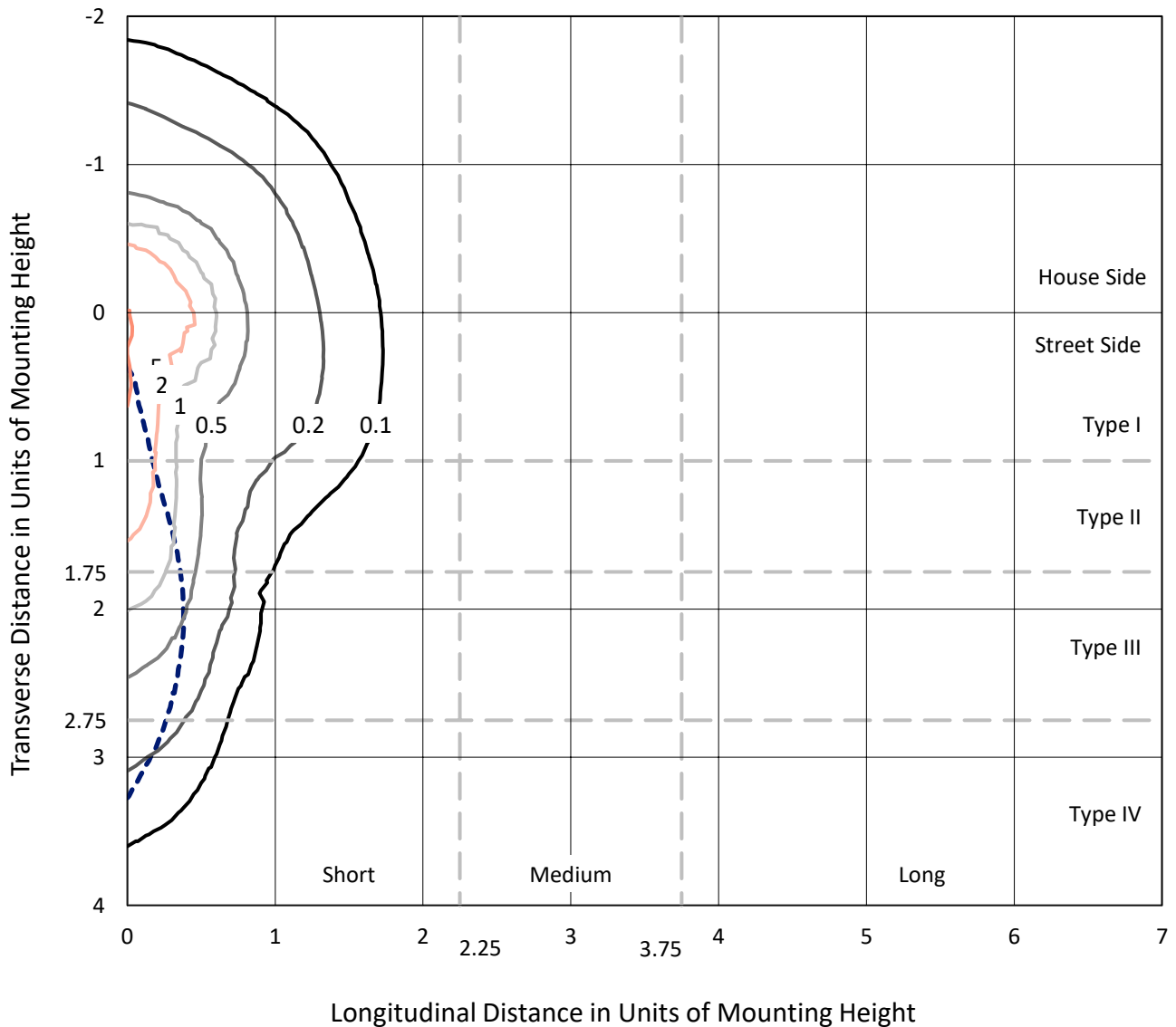
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

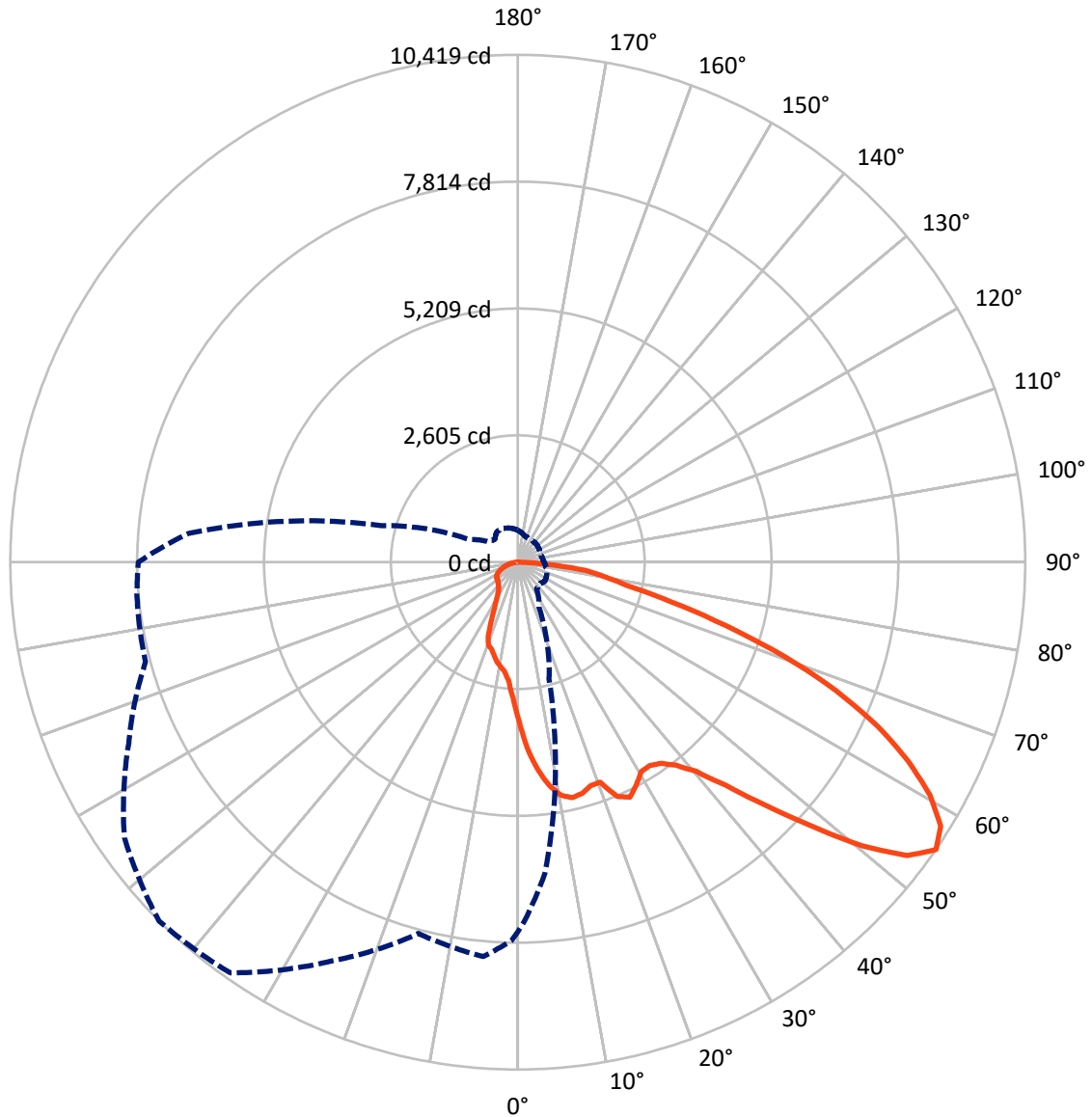
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2852.7	0.0	2852.7
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	10188.3	0.0	10188.3
	% Fixture	78.1	0.0	78.1
Total	Lumens	13041.0	0.0	13041.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.4	2.1
10°-20°	735.9	5.6
20°-30°	1271.3	9.7
30°-40°	1477.4	11.3
40°-50°	2061.3	15.8
50°-60°	2797.0	21.4
60°-70°	2661.0	20.4
70°-80°	1437.5	11.0
80°-90°	322.2	2.5
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°	13041.0	100.0
0°-180°	13041.0	100.0

Coefficient of Utilization



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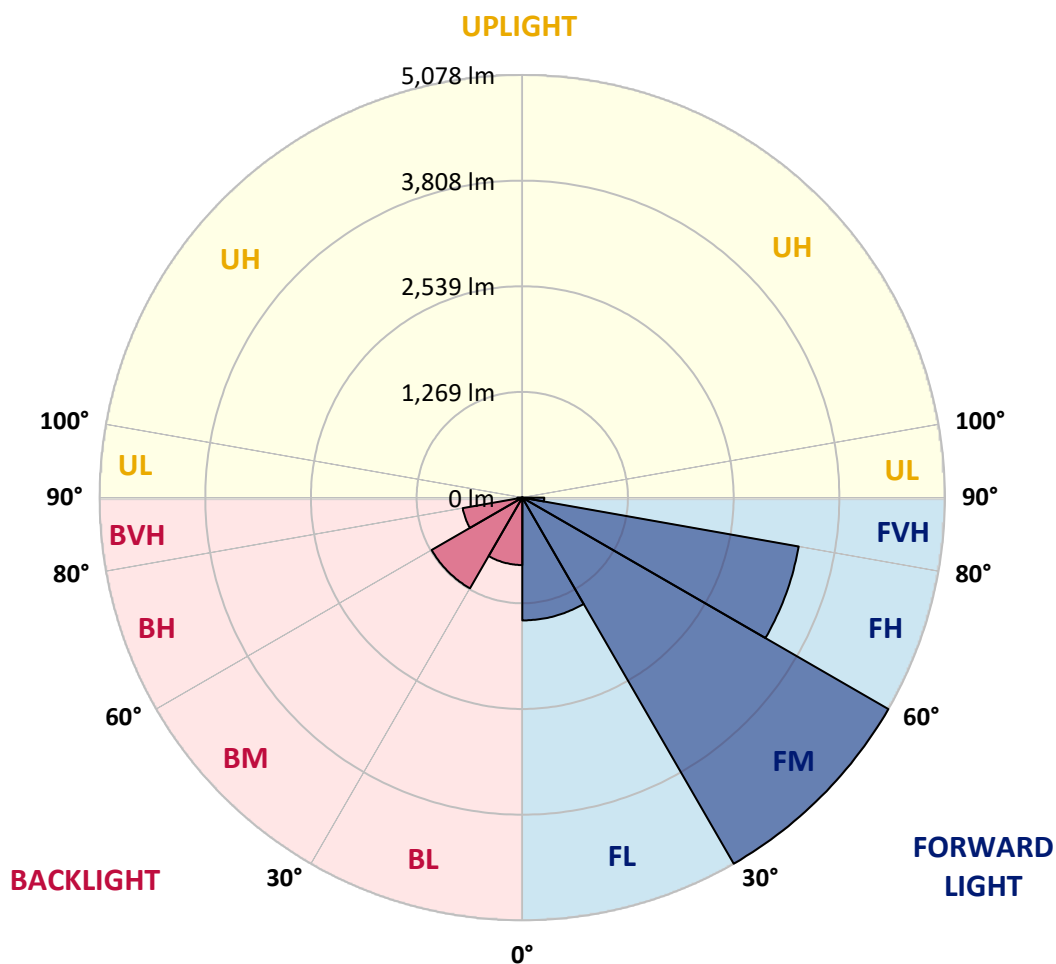
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1475.0	11.3			
FM	(30°-60°)	5077.9	38.9			
FH	(60°-80°)	3372.2	25.9			G2/5000
FVH	(80°-90°)	263.3	2.0			G3/500
BL	(0°-30°)	809.6	6.2	B2/1000		
BM	(30°-60°)	1257.8	9.6	B2/2500		
BH	(60°-80°)	726.4	5.6	B2/1000		G2/1000
BVH	(80°-90°)	58.9	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3272.8	3272.8	3272.8	3272.8	3272.8	3272.8	3272.8	3272.8	3272.8	3272.8	3272.8
2.5°	3635.9	3622.1	3583.4	3481.8	3379.5	3275.4	3195.3	3095.5	2991.4	2935.5	2864.1
5°	3685.8	3670.3	3579.1	3350.2	3142.9	2925.2	2751.4	2599.1	2537.2	2446.0	2372.9
7.5°	3568.7	3561.9	3425.1	3096.4	2812.5	2527.7	2330.7	2208.5	2097.5	2056.2	2064.8
10°	3462.1	3434.5	3263.3	2834.0	2502.8	2271.3	2130.2	2010.6	1932.4	1911.7	1916.0
12.5°	3373.4	3336.4	3134.3	2657.6	2367.7	2182.7	2002.9	1878.1	1806.7	1826.5	1893.6
15°	3355.4	3305.5	3080.1	2597.4	2293.7	2055.4	1858.4	1714.7	1661.3	1704.4	1811.9
17.5°	3472.4	3409.6	3173.0	2617.2	2223.2	1925.5	1683.7	1519.4	1474.6	1543.5	1683.7
20°	3848.4	3755.4	3462.9	2731.6	2216.3	1860.9	1582.2	1417.0	1435.9	1566.7	1713.0
22.5°	4543.5	4404.1	3970.5	2898.5	2252.4	1844.6	1561.5	1475.5	1579.6	1690.6	1787.0
25°	4681.2	4571.9	4061.7	2936.4	2244.7	1833.4	1620.0	1663.1	1779.2	1834.3	1800.7
27.5°	4758.6	4633.9	4055.7	2748.8	2007.2	1663.1	1548.6	1620.0	1649.3	1596.0	1504.8
30°	4939.3	4809.4	4158.1	2551.8	1652.7	1233.7	1081.5	1052.2	1072.0	1082.3	1049.6
32.5°	5187.9	5059.7	4350.8	2422.8	1429.0	1020.4	870.7	829.4	819.9	808.7	795.8
35°	5509.7	5312.7	4540.1	2340.2	1337.0	943.8	806.2	774.3	761.4	745.9	732.2
37.5°	5836.6	5630.1	4779.3	2253.3	1275.9	890.5	763.1	748.5	726.1	709.8	690.0
40°	6184.2	5952.8	4996.9	2177.6	1216.5	856.1	732.2	730.4	701.2	682.3	659.0
42.5°	6485.3	6247.0	5191.4	2131.1	1170.9	819.9	713.2	718.4	688.3	659.9	629.8
45°	6724.5	6490.5	5371.2	2131.1	1133.9	783.8	709.8	706.3	676.2	641.0	606.5
47.5°	6934.4	6692.7	5546.7	2185.3	1110.7	753.7	690.9	696.9	665.9	621.2	587.6
50°	7097.0	6883.7	5783.3	2269.6	1087.5	729.6	666.8	699.5	657.3	610.9	572.1
52.5°	7304.4	7113.4	6068.1	2384.9	1067.7	702.9	645.3	699.5	656.4	611.7	569.6
55°	7591.8	7390.4	6411.3	2480.4	1035.9	678.0	626.3	679.7	653.9	607.4	562.7
57.5°	7793.1	7642.5	6654.0	2544.1	990.3	646.1	609.1	660.8	642.7	591.1	542.0
58°	7802.5	7655.4	6689.2	2558.7	979.1	640.1	604.8	652.1	637.5	584.2	535.1
60°	7694.1	7567.7	6696.1	2538.0	915.4	610.0	582.5	616.9	610.0	543.7	498.1
62.5°	7300.1	7165.0	6418.2	2370.3	831.1	573.0	548.0	569.6	554.1	487.0	444.8
65°	6740.0	6491.4	5847.0	2107.0	770.9	533.4	501.6	503.3	487.0	438.8	401.8
67.5°	5994.1	5716.2	4950.5	1775.8	725.3	489.5	446.5	442.2	422.4	391.5	361.3
70°	5076.1	4885.9	4023.0	1444.5	674.5	441.4	384.6	382.0	370.0	346.7	320.1
72.5°	4114.2	3872.4	3248.7	1156.3	612.6	394.9	326.9	332.1	316.6	300.3	276.2
75°	3036.2	2877.9	2511.4	927.5	529.1	344.1	272.7	274.5	267.6	250.4	231.4
77.5°	1999.5	1952.1	1796.4	609.1	406.9	273.6	222.8	224.6	219.4	203.9	184.1
80°	1345.6	1313.8	1217.4	392.3	271.9	197.9	172.1	173.8	172.9	156.6	129.9
82.5°	829.4	815.6	784.6	265.0	188.4	142.0	113.6	118.7	128.2	110.1	88.6
85°	391.5	392.3	474.1	144.5	111.0	91.2	61.9	66.2	66.2	66.2	49.9
87.5°	50.8	53.3	65.4	61.1	40.4	34.4	22.4	18.9	16.3	21.5	15.5
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°	3272.8	3272.8	3272.8	3272.8	3272.8	3272.8	3272.8	3272.8	3272.8	3272.8	3272.8
2.5°	2839.2	2822.0	2785.0	2776.4	2771.2	2785.8	2747.1	2757.4	2740.2	2788.4	2780.7
5°	2377.2	2378.9	2409.0	2428.8	2435.7	2428.8	2403.0	2358.2	2323.8	2310.0	2313.5
7.5°	2048.5	2078.6	2130.2	2187.9	2240.4	2255.8	2241.2	2156.0	2063.1	2004.6	1985.7
10°	1939.2	1979.7	2039.0	2084.6	2131.1	2168.1	2175.8	2109.6	1999.5	1860.9	1806.7
12.5°	1945.3	2000.3	2057.1	2071.7	2067.4	2082.1	2075.2	2064.0	1991.7	1815.3	1725.0
15°	1888.5	1953.9	1993.4	1985.7	1971.9	1959.0	1941.0	1912.6	1886.8	1762.9	1663.1
17.5°	1757.7	1824.8	1857.5	1860.1	1860.1	1856.6	1812.8	1802.4	1799.0	1738.8	1677.7
20°	1781.8	1818.8	1804.2	1780.1	1787.0	1810.2	1784.4	1779.2	1799.0	1825.7	1814.5
22.5°	1795.6	1782.7	1672.5	1565.8	1541.8	1614.0	1628.6	1686.3	1766.3	1862.7	1925.5
25°	1710.4	1606.3	1409.3	1288.8	1220.8	1287.9	1375.7	1482.4	1602.0	1725.9	1799.0
27.5°	1429.9	1350.8	1209.7	1101.3	1041.9	1052.2	1127.1	1224.3	1335.3	1418.7	1472.1
30°	1077.2	1041.9	968.8	931.8	895.6	887.0	918.9	955.9	1004.9	1015.2	1029.0
32.5°	793.2	788.1	792.4	780.3	773.5	772.6	763.1	771.7	776.9	782.9	770.9
35°	717.5	710.7	698.6	695.2	690.9	692.6	688.3	684.0	687.4	692.6	696.0
37.5°	678.8	668.5	651.3	645.3	645.3	647.8	641.0	639.2	645.3	661.6	670.2
40°	648.7	636.7	616.9	609.1	614.3	621.2	611.7	608.3	622.9	640.1	653.9
42.5°	620.3	610.9	591.9	583.3	587.6	600.5	586.8	584.2	603.1	622.0	638.4
45°	596.2	586.8	569.6	565.3	567.0	579.0	569.6	569.6	587.6	608.3	622.9
47.5°	577.3	565.3	554.1	550.6	552.3	559.2	557.5	557.5	574.7	596.2	610.9
50°	558.4	548.0	533.4	535.1	539.4	548.9	548.0	550.6	567.8	594.5	610.0
52.5°	549.8	534.3	517.9	519.7	532.6	543.7	540.3	542.9	562.7	612.6	634.9
55°	540.3	519.7	500.7	503.3	517.9	534.3	530.0	533.4	556.6	624.6	655.6
57.5°	522.2	498.1	477.5	479.2	500.7	517.9	511.0	515.4	542.9	611.7	644.4
58°	514.5	493.8	474.1	474.9	495.6	514.5	506.7	510.2	538.6	608.3	639.2
60°	481.8	469.8	452.5	453.4	473.2	489.5	485.2	488.7	516.2	583.3	606.5
62.5°	437.1	430.2	425.9	425.9	437.9	453.4	457.7	462.0	487.0	527.4	548.0
65°	388.9	388.9	389.7	389.7	397.5	417.3	419.9	431.0	454.3	474.1	489.5
67.5°	356.2	354.5	356.2	351.9	355.3	367.4	380.3	390.6	414.7	428.5	433.6
70°	314.0	313.2	314.0	308.0	312.3	322.6	331.2	348.4	373.4	383.7	386.3
72.5°	272.7	272.7	274.5	270.2	270.2	281.3	287.4	306.3	329.5	335.5	336.4
75°	229.7	232.3	232.3	226.3	228.0	234.9	242.6	258.1	279.6	283.9	283.9
77.5°	182.4	191.9	191.9	185.8	188.4	189.3	199.6	207.3	223.7	225.4	218.5
80°	132.5	142.0	149.7	144.5	148.8	143.7	149.7	154.9	171.2	163.5	152.3
82.5°	94.6	101.5	107.5	108.4	104.1	94.6	102.4	103.2	111.0	100.7	94.6
85°	52.5	58.5	66.2	62.8	55.9	49.9	52.5	54.2	53.3	50.8	47.3
87.5°	13.8	14.6	16.3	12.0	11.2	9.5	12.9	12.9	14.6	15.5	14.6
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°	3272.8	3272.8	3272.8	3272.8	3272.8	3272.8	3272.8	3272.8	3272.8	3272.8	3272.8
2.5°	2786.7	2824.5	2906.3	2968.2	3043.9	3136.0	3244.4	3353.7	3471.5	3508.5	3560.1
5°	2305.7	2400.4	2440.0	2552.7	2664.5	2832.3	3011.2	3218.6	3445.7	3555.0	3659.9
7.5°	1970.2	2021.0	2062.3	2144.9	2279.1	2483.0	2707.5	2966.5	3288.3	3447.4	3601.4
10°	1789.5	1794.7	1845.5	1947.8	2064.8	2244.7	2457.2	2747.1	3105.9	3299.5	3480.1
12.5°	1669.9	1647.6	1702.6	1809.3	1941.8	2107.9	2303.2	2579.3	2974.2	3173.0	3391.5
15°	1565.0	1529.7	1571.0	1680.3	1811.0	2006.3	2216.3	2508.8	2922.6	3154.1	3396.7
17.5°	1567.6	1470.3	1485.0	1577.0	1706.9	1905.7	2160.3	2506.2	3000.9	3267.6	3555.0
20°	1761.1	1605.4	1539.2	1556.4	1682.0	1898.8	2186.2	2626.7	3258.2	3647.0	3954.2
22.5°	1951.3	1857.5	1750.8	1715.5	1784.4	2011.5	2350.5	2911.4	3817.4	4403.3	4958.2
25°	1885.0	1965.0	1938.4	1888.5	1904.0	2092.4	2462.3	3145.4	4251.9	4911.8	5433.1
27.5°	1508.2	1653.6	1682.8	1682.0	1688.0	1842.9	2214.5	2988.0	4306.1	5009.0	5507.1
30°	1060.0	1072.9	1088.3	1118.5	1146.0	1284.5	1732.8	2623.2	4282.0	5052.9	5551.9
32.5°	764.9	782.1	803.6	844.9	910.3	1086.6	1515.9	2507.1	4409.3	5234.4	5682.6
35°	699.5	719.3	739.9	787.2	849.2	1012.6	1429.9	2458.9	4618.4	5528.6	5917.5
37.5°	678.8	701.2	719.3	753.7	803.6	959.3	1351.6	2426.2	4832.6	5840.1	6232.4
40°	664.2	690.0	704.6	732.2	766.6	910.3	1281.9	2400.4	5039.9	6124.9	6485.3
42.5°	651.3	678.0	696.9	716.7	745.1	866.4	1220.0	2374.6	5219.8	6401.0	6737.4
45°	635.8	669.4	693.4	708.9	733.9	829.4	1172.7	2353.9	5424.5	6646.2	6992.1
47.5°	622.9	659.9	690.0	708.1	717.5	803.6	1134.8	2382.3	5670.6	6902.6	7228.7
50°	623.8	659.0	696.9	725.3	700.3	782.1	1111.6	2495.0	5990.6	7207.2	7415.4
52.5°	651.3	694.3	724.4	731.3	676.2	756.3	1099.5	2692.0	6369.2	7476.5	7603.8
55°	682.3	727.0	759.7	755.4	663.3	723.6	1096.9	2902.0	6783.9	7790.5	7849.0
57.5°	671.1	736.5	786.4	764.0	664.2	691.7	1085.8	3071.5	7130.6	8025.4	8091.6
58°	667.6	733.0	789.8	762.3	661.6	682.3	1083.2	3086.1	7178.8	8041.7	8126.0
60°	634.1	702.9	787.2	749.4	647.0	656.4	1054.8	3133.4	7165.9	7957.4	8146.7
62.5°	573.0	629.8	727.9	686.6	602.2	622.0	991.1	3074.9	6816.6	7551.3	7844.7
65°	504.2	546.3	611.7	604.0	538.6	586.8	904.2	2843.5	6117.1	6892.3	7201.2
67.5°	452.5	487.0	528.3	517.1	484.4	539.4	810.5	2452.0	5332.5	6100.8	6489.6
70°	400.1	426.7	447.4	439.6	429.3	493.0	727.0	1990.0	4580.5	5348.8	5725.6
72.5°	346.7	371.7	388.9	377.7	371.7	443.9	659.0	1544.3	3617.8	4412.7	4897.1
75°	289.9	314.9	326.9	314.0	310.6	391.5	558.4	1153.7	2714.4	3401.8	3820.0
77.5°	224.6	251.2	266.7	262.4	264.1	321.8	450.8	789.8	1941.0	2318.7	2759.2
80°	157.4	186.7	197.0	192.7	204.8	245.2	318.3	501.6	1338.7	1504.8	1815.3
82.5°	97.2	124.8	126.5	130.8	139.4	181.5	240.0	305.4	840.6	869.0	1094.4
85°	49.0	59.4	63.7	70.5	78.3	111.0	136.8	189.3	541.2	409.5	611.7
87.5°	16.3	17.2	20.6	25.8	31.8	45.6	58.5	77.4	134.2	74.0	189.3
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: P452989

CATALOG NUMBER: GALN-SA4A-727-U-SLR

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3272.8	3272.8	3272.8	3272.8	3272.8	3272.8	3272.8	3272.8	3272.8	3272.8
2.5°	3664.2	3737.4	3790.7	3839.8	3792.4	3788.1	3741.7	3666.8	3635.9	3635.9
5°	3880.2	4051.4	4189.9	4278.5	4240.7	4149.5	3998.9	3807.1	3703.8	3685.8
7.5°	3939.6	4277.7	4534.9	4626.1	4562.5	4361.1	4072.9	3749.4	3601.4	3568.7
10°	3903.4	4343.1	4720.8	4865.3	4776.7	4472.1	4078.9	3682.3	3499.9	3462.1
12.5°	3865.6	4351.7	4755.2	4964.2	4906.6	4561.6	4122.8	3638.4	3427.6	3373.4
15°	3893.1	4355.1	4713.0	4929.0	4966.0	4669.1	4195.1	3670.3	3413.0	3355.4
17.5°	4066.9	4420.5	4652.8	4827.4	4957.4	4815.4	4400.7	3822.5	3543.8	3472.4
20°	4430.0	4577.1	4687.2	4822.3	5031.3	5113.9	4821.4	4240.7	3911.2	3848.4
22.5°	5481.3	5454.6	5229.2	5226.6	5529.5	5860.7	5840.9	5090.7	4595.1	4543.5
25°	5875.3	5751.5	5425.4	5346.2	5479.6	5990.6	5916.6	5264.5	4806.8	4681.2
27.5°	5721.3	5414.2	5200.0	5181.9	5138.0	5620.7	5798.8	5335.0	4880.8	4758.6
30°	5711.9	5260.2	4953.9	4990.0	5032.2	5493.4	5864.2	5556.2	5070.1	4939.3
32.5°	5735.1	5281.7	4972.0	4978.9	5104.5	5512.3	5936.4	5797.1	5318.7	5187.9
35°	5828.9	5403.9	5087.3	5070.9	5267.1	5636.2	6059.5	6175.6	5658.5	5509.7
37.5°	5980.3	5647.4	5298.1	5293.8	5578.5	5859.9	6212.6	6557.6	5996.7	5836.6
40°	6203.1	5932.1	5673.2	5649.9	6001.8	6223.8	6411.3	6964.6	6389.8	6184.2
42.5°	6472.4	6273.7	6167.9	6259.9	6598.0	6632.5	6721.1	7340.5	6724.5	6485.3
45°	6721.9	6712.5	6859.6	7103.9	7301.0	7094.5	7044.6	7592.6	6984.3	6724.5
47.5°	7018.8	7275.1	7719.1	8077.0	8283.5	7632.2	7320.7	7756.9	7173.6	6934.4
50°	7319.9	7948.8	8657.7	9156.7	9200.6	8216.4	7510.9	7911.8	7345.7	7097.0
52.5°	7636.5	8486.5	9430.3	10010.2	9925.0	8724.8	7695.0	8016.8	7522.9	7304.4
55°	7911.8	8816.0	9862.2	10418.9	10294.1	9034.6	7893.7	8130.3	7775.9	7591.8
57.5°	8065.8	8843.6	9754.7	10240.8	10105.7	8974.3	7984.9	8214.6	7937.6	7793.1
58°	8088.2	8806.6	9659.2	10137.5	9999.9	8923.6	7984.1	8211.2	7947.9	7802.5
60°	8068.4	8566.5	9303.9	9729.7	9585.2	8605.2	7951.4	8146.7	7817.2	7694.1
62.5°	7885.1	8150.1	8690.4	9000.1	8958.9	8108.0	7817.2	7903.2	7418.8	7300.1
65°	7644.2	7582.3	7904.9	8124.3	8155.3	7735.4	7683.8	7376.7	6907.8	6740.0
67.5°	7351.7	6938.7	6937.9	7062.6	7114.3	7162.4	7405.9	6804.5	6171.3	5994.1
70°	6855.3	5946.8	5673.2	5820.3	5777.3	6184.2	6909.5	6001.0	5283.4	5076.1
72.5°	5945.0	4719.0	4281.1	4470.4	4362.0	4849.8	6045.7	4938.4	4368.9	4114.2
75°	4818.8	3530.0	3078.3	3252.1	3185.0	3678.9	5030.5	3586.8	3133.4	3036.2
77.5°	3741.7	2557.8	2295.4	2271.3	2321.2	2737.6	3690.1	2421.9	2065.7	1999.5
80°	2403.8	1830.8	1846.3	1815.3	1841.2	1725.9	2240.4	1545.2	1398.9	1345.6
82.5°	1582.2	1275.9	1521.1	1404.1	1333.5	1160.6	1469.5	1011.8	858.6	829.4
85°	1078.0	939.5	855.2	653.9	770.0	893.9	1102.1	544.6	431.9	391.5
87.5°	487.0	326.9	240.0	148.0	234.0	270.2	535.1	63.7	49.0	50.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)