

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: P451626

Luminaire Tested: **GALN-SA2C-730-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451626
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-SA2C-730-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1050mA 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: 11099 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

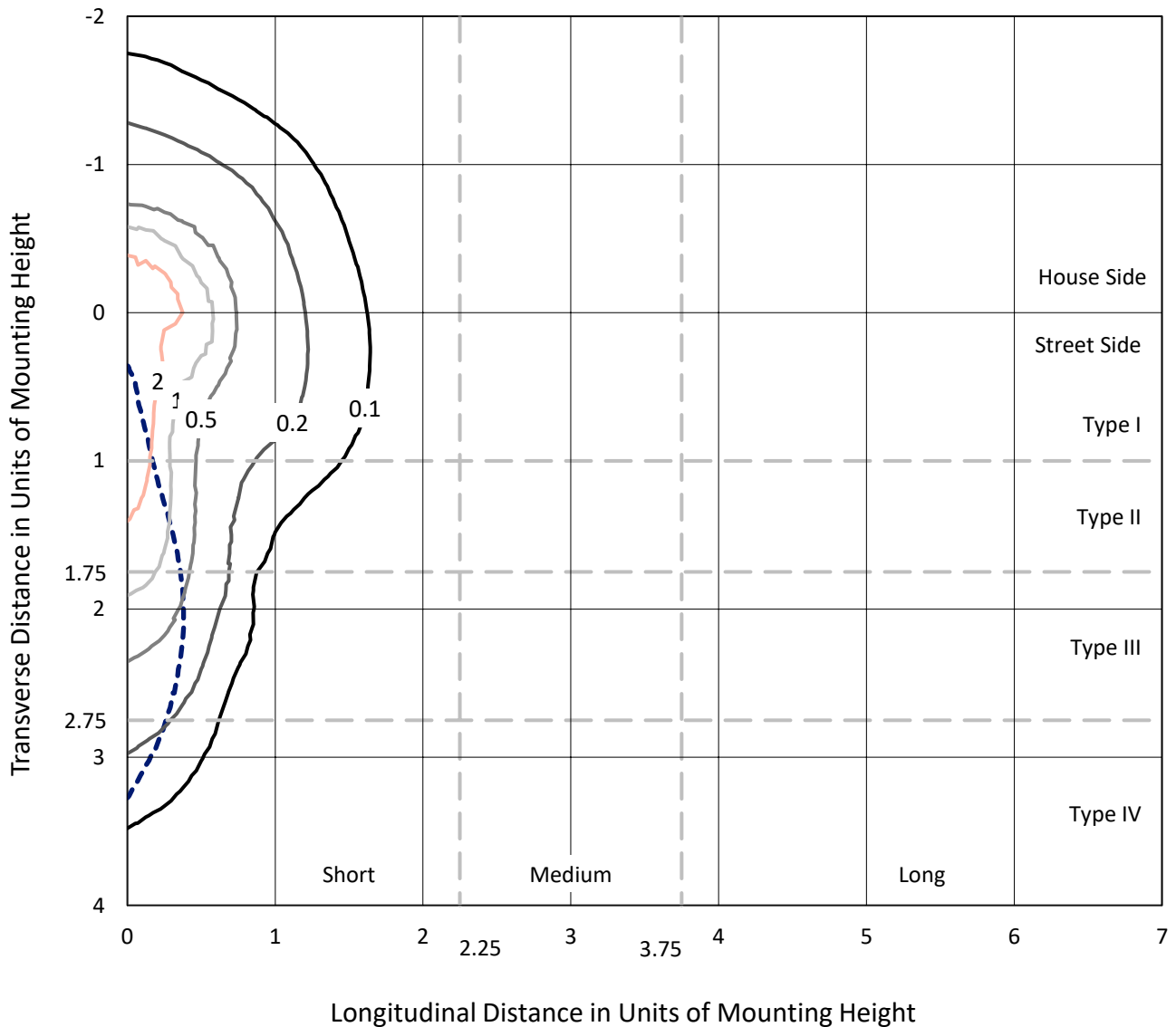
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

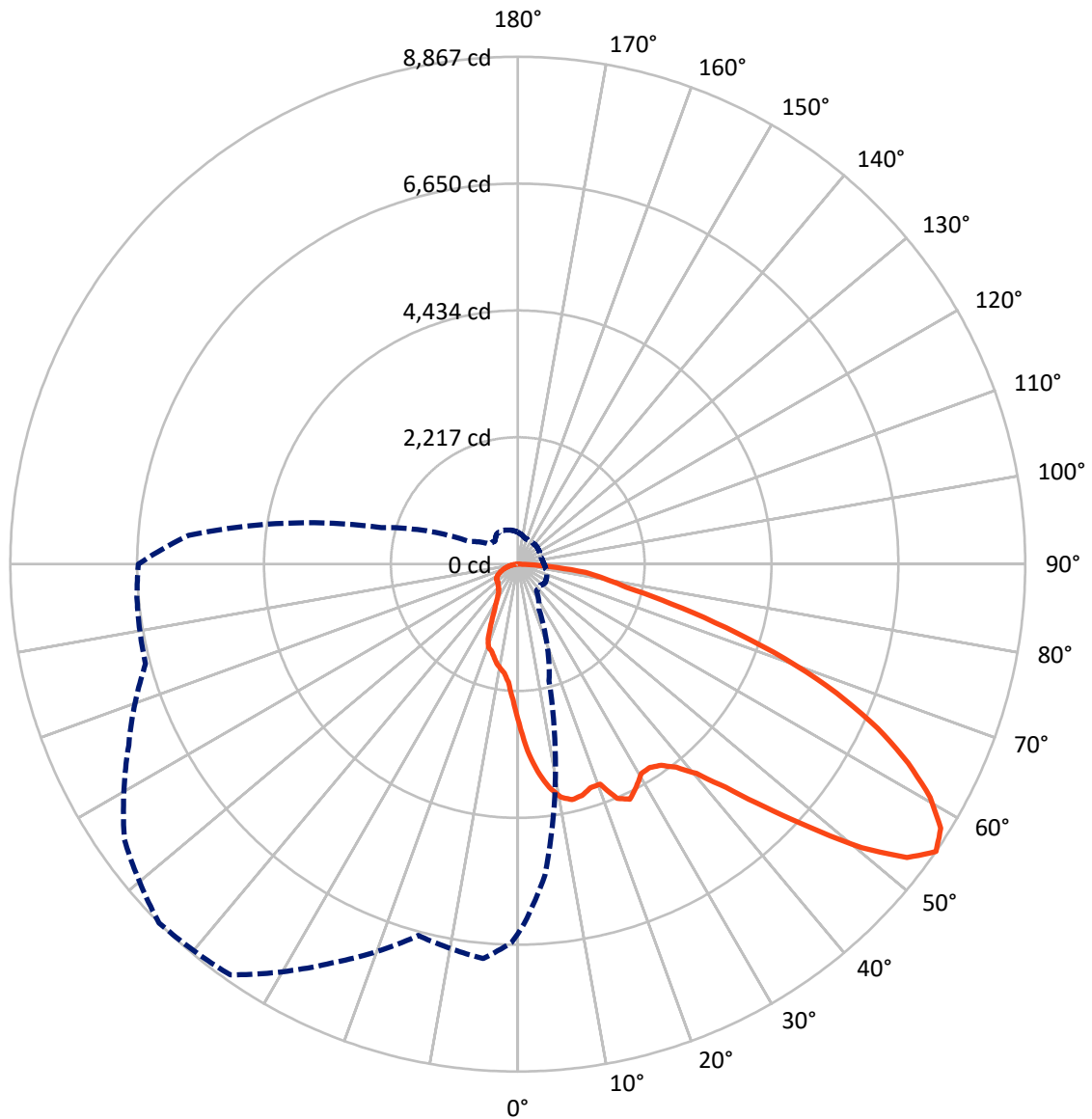
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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	2427.9	0.0	2427.9
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	8671.1	0.0	8671.1
	% Fixture	78.1	0.0	78.1
Total	Lumens	11099.0	0.0	11099.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.1	2.1
10°-20°	626.3	5.6
20°-30°	1082.0	9.7
30°-40°	1257.4	11.3
40°-50°	1754.4	15.8
50°-60°	2380.5	21.4
60°-70°	2264.7	20.4
70°-80°	1223.5	11.0
80°-90°	274.2	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°	11099.0	100.0
0°-180°	11099.0	100.0

Coefficient of Utilization



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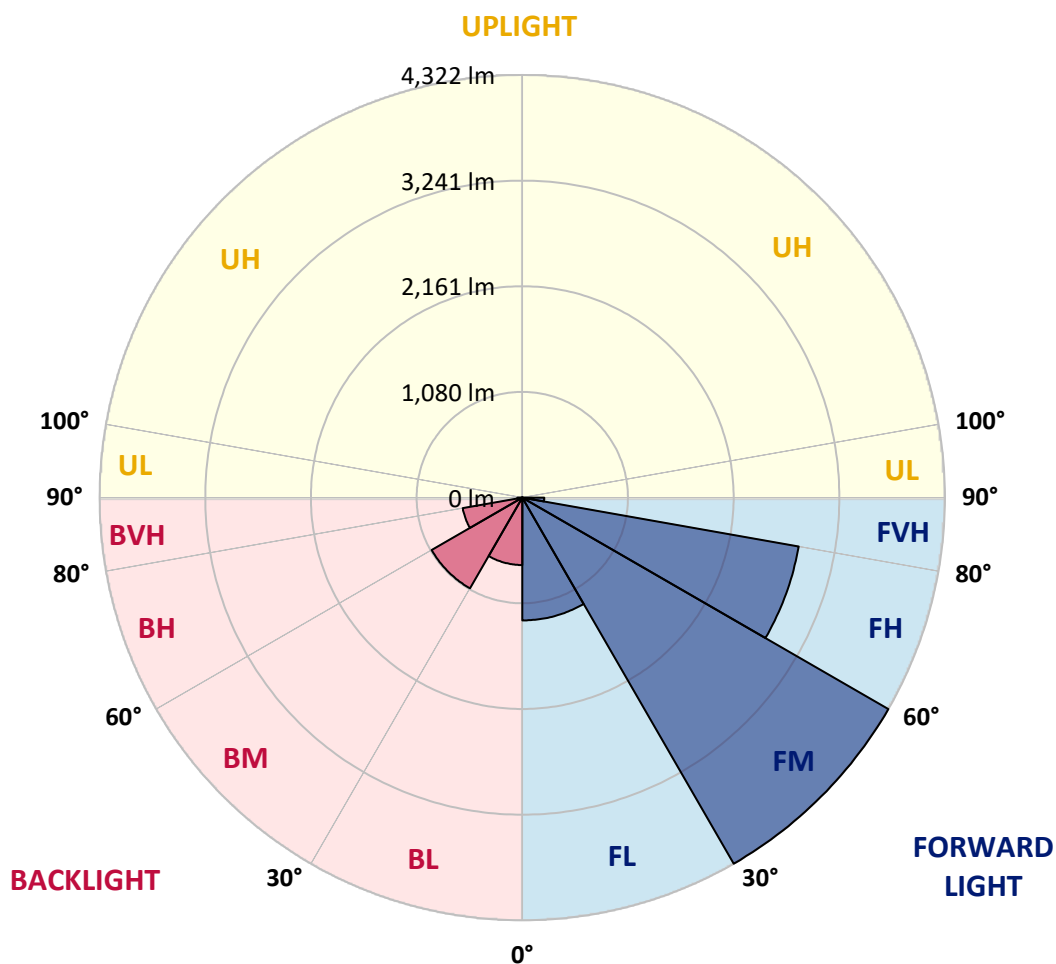
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1255.3	11.3			
FM	(30°-60°)	4321.7	38.9			
FH	(60°-80°)	2870.0	25.9			G2/5000
FVH	(80°-90°)	224.1	2.0			G2/225
BL	(0°-30°)	689.0	6.2	B2/1000		
BM	(30°-60°)	1070.5	9.6	B2/2500		
BH	(60°-80°)	618.2	5.6	B2/1000		G2/1000
BVH	(80°-90°)	50.1	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2785.4	2785.4	2785.4	2785.4	2785.4	2785.4	2785.4	2785.4	2785.4	2785.4	2785.4
2.5°	3094.4	3082.7	3049.8	2963.3	2876.2	2787.6	2719.5	2634.6	2546.0	2498.4	2437.6
5°	3136.9	3123.7	3046.1	2851.3	2674.8	2489.6	2341.7	2212.1	2159.4	2081.7	2019.5
7.5°	3037.3	3031.4	2915.0	2635.3	2393.7	2151.3	1983.6	1879.6	1785.2	1750.0	1757.4
10°	2946.5	2923.1	2777.4	2412.0	2130.1	1933.1	1813.0	1711.2	1644.6	1627.0	1630.7
12.5°	2871.1	2839.6	2667.5	2261.9	2015.1	1857.7	1704.6	1598.5	1537.7	1554.5	1611.6
15°	2855.7	2813.2	2621.4	2210.6	1952.1	1749.3	1581.6	1459.3	1413.9	1450.6	1542.1
17.5°	2955.3	2901.8	2700.5	2227.5	1892.1	1638.7	1433.0	1293.1	1255.0	1313.6	1433.0
20°	3275.3	3196.2	2947.2	2324.8	1886.2	1583.8	1346.6	1206.0	1222.1	1333.4	1457.9
22.5°	3866.9	3748.3	3379.3	2466.9	1917.0	1569.9	1329.0	1255.8	1344.4	1438.8	1520.8
25°	3984.1	3891.1	3456.9	2499.1	1910.4	1560.4	1378.8	1415.4	1514.3	1561.1	1532.6
27.5°	4050.0	3943.8	3451.7	2339.5	1708.3	1415.4	1318.0	1378.8	1403.7	1358.3	1280.7
30°	4203.8	4093.2	3538.9	2171.8	1406.6	1050.0	920.4	895.5	912.4	921.1	893.3
32.5°	4415.4	4306.3	3702.9	2062.0	1216.2	868.4	741.0	705.9	697.8	688.3	677.3
35°	4689.2	4521.5	3864.0	1991.7	1137.9	803.3	686.1	659.0	648.0	634.8	623.1
37.5°	4967.5	4791.7	4067.6	1917.7	1085.9	757.9	649.5	637.0	618.0	604.1	587.3
40°	5263.3	5066.3	4252.8	1853.3	1035.4	728.6	623.1	621.7	596.8	580.7	560.9
42.5°	5519.6	5316.7	4418.3	1813.7	996.6	697.8	607.0	611.4	585.8	561.6	536.0
45°	5723.1	5524.0	4571.3	1813.7	965.1	667.1	604.1	601.2	575.5	545.5	516.2
47.5°	5901.8	5696.0	4720.7	1859.9	945.3	641.4	588.0	593.1	566.7	528.7	500.1
50°	6040.2	5858.6	4922.1	1931.6	925.5	620.9	567.5	595.3	559.4	519.9	486.9
52.5°	6216.7	6054.1	5164.4	2029.8	908.7	598.2	549.2	595.3	558.7	520.6	484.7
55°	6461.2	6289.9	5456.6	2111.0	881.6	577.0	533.1	578.5	556.5	517.0	478.9
57.5°	6632.6	6504.4	5663.1	2165.2	842.8	549.9	518.4	562.4	547.0	503.0	461.3
58°	6640.6	6515.4	5693.1	2177.7	833.3	544.8	514.8	555.0	542.6	497.2	455.4
60°	6548.4	6440.7	5699.0	2160.1	779.1	519.2	495.7	525.0	519.2	462.8	424.0
62.5°	6213.0	6098.0	5462.5	2017.3	707.3	487.7	466.4	484.7	471.6	414.4	378.6
65°	5736.3	5524.7	4976.3	1793.2	656.1	454.0	426.9	428.4	414.4	373.4	342.0
67.5°	5101.5	4865.0	4213.3	1511.3	617.3	416.6	380.0	376.4	359.5	333.2	307.5
70°	4320.2	4158.4	3423.9	1229.4	574.1	375.6	327.3	325.1	314.9	295.1	272.4
72.5°	3501.5	3295.8	2764.9	984.1	521.4	336.1	278.2	282.6	269.5	255.5	235.0
75°	2584.1	2449.3	2137.4	789.3	450.3	292.9	232.1	233.6	227.7	213.1	197.0
77.5°	1701.7	1661.4	1528.9	518.4	346.3	232.9	189.6	191.1	186.7	173.5	156.7
80°	1145.2	1118.1	1036.1	333.9	231.4	168.4	146.4	147.9	147.2	133.3	110.6
82.5°	705.9	694.2	667.8	225.5	160.4	120.8	96.7	101.0	109.1	93.7	75.4
85°	333.2	333.9	403.5	123.0	94.5	77.6	52.7	56.4	56.4	56.4	42.5
87.5°	43.2	45.4	55.6	52.0	34.4	29.3	19.0	16.1	13.9	18.3	13.2
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°	2785.4	2785.4	2785.4	2785.4	2785.4	2785.4	2785.4	2785.4	2785.4	2785.4	2785.4
2.5°	2416.4	2401.7	2370.2	2362.9	2358.5	2371.0	2338.0	2346.8	2332.2	2373.2	2366.6
5°	2023.2	2024.6	2050.3	2067.1	2073.0	2067.1	2045.1	2007.1	1977.8	1966.0	1969.0
7.5°	1743.4	1769.1	1813.0	1862.1	1906.7	1919.9	1907.5	1835.0	1755.9	1706.1	1690.0
10°	1650.5	1684.9	1735.4	1774.2	1813.7	1845.2	1851.8	1795.4	1701.7	1583.8	1537.7
12.5°	1655.6	1702.4	1750.8	1763.2	1759.6	1772.0	1766.1	1756.6	1695.1	1545.0	1468.1
15°	1607.3	1662.9	1696.6	1690.0	1678.3	1667.3	1651.9	1627.8	1605.8	1500.3	1415.4
17.5°	1496.0	1553.1	1580.9	1583.1	1583.1	1580.2	1542.8	1534.0	1531.1	1479.8	1427.9
20°	1516.5	1547.9	1535.5	1515.0	1520.8	1540.6	1518.7	1514.3	1531.1	1553.8	1544.3
22.5°	1528.2	1517.2	1423.5	1332.7	1312.2	1373.7	1386.1	1435.2	1503.3	1585.3	1638.7
25°	1455.7	1367.1	1199.4	1096.9	1039.0	1096.2	1170.8	1261.6	1363.4	1468.9	1531.1
27.5°	1217.0	1149.6	1029.5	937.3	886.7	895.5	959.2	1042.0	1136.4	1207.5	1252.9
30°	916.8	886.7	824.5	793.0	762.3	754.9	782.0	813.5	855.2	864.0	875.8
32.5°	675.1	670.7	674.4	664.1	658.3	657.5	649.5	656.8	661.2	666.3	656.1
35°	610.7	604.8	594.6	591.6	588.0	589.4	585.8	582.1	585.1	589.4	592.4
37.5°	577.7	568.9	554.3	549.2	549.2	551.4	545.5	544.0	549.2	563.1	570.4
40°	552.1	541.9	525.0	518.4	522.8	528.7	520.6	517.7	530.1	544.8	556.5
42.5°	527.9	519.9	503.8	496.5	500.1	511.1	499.4	497.2	513.3	529.4	543.3
45°	507.4	499.4	484.7	481.1	482.5	492.8	484.7	484.7	500.1	517.7	530.1
47.5°	491.3	481.1	471.6	468.6	470.1	476.0	474.5	474.5	489.1	507.4	519.9
50°	475.2	466.4	454.0	455.4	459.1	467.2	466.4	468.6	483.3	506.0	519.2
52.5°	467.9	454.7	440.8	442.3	453.3	462.8	459.8	462.0	478.9	521.4	540.4
55°	459.8	442.3	426.2	428.4	440.8	454.7	451.1	454.0	473.8	531.6	558.0
57.5°	444.5	424.0	406.4	407.9	426.2	440.8	434.9	438.6	462.0	520.6	548.4
58°	437.9	420.3	403.5	404.2	421.8	437.9	431.3	434.2	458.4	517.7	544.0
60°	410.1	399.8	385.2	385.9	402.7	416.6	413.0	415.9	439.3	496.5	516.2
62.5°	372.0	366.1	362.5	362.5	372.7	385.9	389.5	393.2	414.4	448.9	466.4
65°	331.0	331.0	331.7	331.7	338.3	355.1	357.3	366.8	386.6	403.5	416.6
67.5°	303.1	301.7	303.1	299.5	302.4	312.7	323.6	332.4	352.9	364.7	369.0
70°	267.3	266.5	267.3	262.1	265.8	274.6	281.9	296.6	317.8	326.6	328.8
72.5°	232.1	232.1	233.6	229.9	229.9	239.4	244.6	260.7	280.4	285.6	286.3
75°	195.5	197.7	197.7	192.6	194.0	199.9	206.5	219.7	238.0	241.6	241.6
77.5°	155.2	163.3	163.3	158.2	160.4	161.1	169.9	176.5	190.4	191.8	186.0
80°	112.8	120.8	127.4	123.0	126.7	122.3	127.4	131.8	145.7	139.1	129.6
82.5°	80.5	86.4	91.5	92.3	88.6	80.5	87.1	87.9	94.5	85.7	80.5
85°	44.7	49.8	56.4	53.5	47.6	42.5	44.7	46.1	45.4	43.2	40.3
87.5°	11.7	12.4	13.9	10.3	9.5	8.1	11.0	11.0	12.4	13.2	12.4
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°	2785.4	2785.4	2785.4	2785.4	2785.4	2785.4	2785.4	2785.4	2785.4	2785.4	2785.4
2.5°	2371.7	2403.9	2473.5	2526.2	2590.6	2669.0	2761.3	2854.2	2954.6	2986.0	3030.0
5°	1962.4	2042.9	2076.6	2172.5	2267.7	2410.5	2562.8	2739.3	2932.6	3025.6	3114.9
7.5°	1676.8	1720.0	1755.2	1825.5	1939.7	2113.2	2304.3	2524.7	2798.6	2934.1	3065.1
10°	1523.0	1527.4	1570.6	1657.8	1757.4	1910.4	2091.3	2338.0	2643.4	2808.1	2961.9
12.5°	1421.3	1402.2	1449.1	1539.9	1652.7	1794.0	1960.2	2195.2	2531.3	2700.5	2886.5
15°	1331.9	1301.9	1337.1	1430.1	1541.4	1707.6	1886.2	2135.2	2487.4	2684.4	2890.9
17.5°	1334.1	1251.4	1263.8	1342.2	1452.8	1621.9	1838.6	2133.0	2554.0	2781.0	3025.6
20°	1498.9	1366.3	1310.0	1324.6	1431.5	1616.0	1860.6	2235.5	2773.0	3103.9	3365.3
22.5°	1660.7	1580.9	1490.1	1460.1	1518.7	1712.0	2000.5	2477.9	3248.9	3747.6	4219.9
25°	1604.3	1672.4	1649.7	1607.3	1620.4	1780.8	2095.7	2677.0	3618.7	4180.3	4624.1
27.5°	1283.6	1407.4	1432.2	1431.5	1436.6	1568.4	1884.8	2543.0	3664.8	4263.1	4687.0
30°	902.1	913.1	926.3	951.9	975.3	1093.2	1474.7	2232.6	3644.3	4300.4	4725.1
32.5°	651.0	665.6	683.9	719.1	774.7	924.8	1290.2	2133.7	3752.7	4454.9	4836.4
35°	595.3	612.1	629.7	670.0	722.7	861.8	1217.0	2092.7	3930.6	4705.3	5036.3
37.5°	577.7	596.8	612.1	641.4	683.9	816.4	1150.3	2064.9	4113.0	4970.4	5304.3
40°	565.3	587.3	599.7	623.1	652.4	774.7	1091.0	2042.9	4289.4	5212.8	5519.6
42.5°	554.3	577.0	593.1	610.0	634.1	737.4	1038.3	2021.0	4442.5	5447.8	5734.1
45°	541.1	569.7	590.2	603.4	624.6	705.9	998.0	2003.4	4616.7	5656.5	5950.9
47.5°	530.1	561.6	587.3	602.6	610.7	683.9	965.8	2027.6	4826.1	5874.7	6152.2
50°	530.9	560.9	593.1	617.3	596.0	665.6	946.0	2123.5	5098.5	6133.9	6311.1
52.5°	554.3	590.9	616.5	622.4	575.5	643.6	935.8	2291.2	5420.7	6363.1	6471.5
55°	580.7	618.7	646.6	642.9	564.6	615.8	933.6	2469.8	5773.7	6630.4	6680.2
57.5°	571.1	626.8	669.3	650.2	565.3	588.7	924.1	2614.1	6068.7	6830.3	6886.7
58°	568.2	623.9	672.2	648.8	563.1	580.7	921.9	2626.5	6109.8	6844.2	6915.9
60°	539.7	598.2	670.0	637.8	550.6	558.7	897.7	2666.8	6098.8	6772.4	6933.5
62.5°	487.7	536.0	619.5	584.3	512.6	529.4	843.5	2617.0	5801.5	6426.8	6676.5
65°	429.1	465.0	520.6	514.0	458.4	499.4	769.6	2420.0	5206.2	5865.9	6128.8
67.5°	385.2	414.4	449.6	440.1	412.2	459.1	689.8	2086.9	4538.4	5192.3	5523.2
70°	340.5	363.2	380.8	374.2	365.4	419.6	618.7	1693.7	3898.4	4552.3	4873.0
72.5°	295.1	316.3	331.0	321.5	316.3	377.8	560.9	1314.4	3079.0	3755.6	4167.9
75°	246.8	268.0	278.2	267.3	264.3	333.2	475.2	981.9	2310.2	2895.3	3251.1
77.5°	191.1	213.8	227.0	223.3	224.8	273.9	383.7	672.2	1651.9	1973.4	2348.3
80°	134.0	158.9	167.7	164.0	174.3	208.7	270.9	426.9	1139.4	1280.7	1545.0
82.5°	82.7	106.2	107.6	111.3	118.6	154.5	204.3	259.9	715.4	739.6	931.4
85°	41.7	50.5	54.2	60.0	66.6	94.5	116.4	161.1	460.6	348.5	520.6
87.5°	13.9	14.6	17.6	22.0	27.1	38.8	49.8	65.9	114.2	63.0	161.1
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: P451626

CATALOG NUMBER: GALN-SA2C-730-U-SLR

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2785.4	2785.4	2785.4	2785.4	2785.4	2785.4	2785.4	2785.4	2785.4	2785.4
2.5°	3118.6	3180.8	3226.2	3268.0	3227.7	3224.0	3184.5	3120.8	3094.4	3094.4
5°	3302.4	3448.1	3566.0	3641.4	3609.2	3531.6	3403.4	3240.1	3152.3	3136.9
7.5°	3352.9	3640.7	3859.6	3937.2	3883.0	3711.7	3466.4	3191.1	3065.1	3037.3
10°	3322.1	3696.3	4017.8	4140.8	4065.4	3806.1	3471.5	3134.0	2978.7	2946.5
12.5°	3289.9	3703.6	4047.1	4225.0	4175.9	3882.3	3508.9	3096.6	2917.2	2871.1
15°	3313.4	3706.6	4011.2	4195.0	4226.5	3973.8	3570.4	3123.7	2904.8	2855.7
17.5°	3461.3	3762.2	3959.9	4108.6	4219.1	4098.3	3745.4	3253.3	3016.1	2955.3
20°	3770.3	3895.5	3989.2	4104.2	4282.1	4352.4	4103.4	3609.2	3328.7	3275.3
22.5°	4665.1	4642.4	4450.5	4448.3	4706.1	4988.0	4971.1	4332.6	3910.9	3866.9
25°	5000.4	4895.0	4617.5	4550.1	4663.6	5098.5	5035.6	4480.5	4091.0	3984.1
27.5°	4869.4	4607.9	4425.6	4410.2	4372.9	4783.7	4935.3	4540.6	4154.0	4050.0
30°	4861.3	4476.9	4216.2	4247.0	4282.8	4675.3	4990.9	4728.8	4315.1	4203.8
32.5°	4881.1	4495.2	4231.6	4237.4	4344.3	4691.4	5052.4	4933.8	4526.7	4415.4
35°	4960.9	4599.2	4329.7	4315.8	4482.7	4796.9	5157.1	5256.0	4815.9	4689.2
37.5°	5089.8	4806.4	4509.1	4505.4	4747.8	4987.2	5287.5	5581.1	5103.7	4967.5
40°	5279.4	5048.7	4828.3	4808.6	5108.1	5297.0	5456.6	5927.4	5438.3	5263.3
42.5°	5508.6	5339.4	5249.4	5327.7	5615.5	5644.8	5720.2	6247.4	5723.1	5519.6
45°	5720.9	5712.9	5838.1	6046.1	6213.7	6038.0	5995.5	6462.0	5944.3	5723.1
47.5°	5973.6	6191.8	6569.6	6874.2	7049.9	6495.6	6230.6	6601.8	6105.4	5901.8
50°	6229.8	6765.1	7368.5	7793.2	7830.5	6992.8	6392.4	6733.6	6251.8	6040.2
52.5°	6499.3	7222.7	8026.0	8519.5	8447.0	7425.6	6549.1	6822.9	6402.6	6216.7
55°	6733.6	7503.2	8393.6	8867.3	8761.2	7689.2	6718.2	6919.6	6617.9	6461.2
57.5°	6864.7	7526.6	8302.1	8715.8	8600.8	7637.9	6795.9	6991.4	6755.6	6632.6
58°	6883.7	7495.1	8220.8	8627.9	8510.7	7594.7	6795.1	6988.4	6764.4	6640.6
60°	6866.9	7290.8	7918.4	8280.8	8157.8	7323.8	6767.3	6933.5	6653.1	6548.4
62.5°	6710.9	6936.4	7396.3	7659.9	7624.7	6900.6	6653.1	6726.3	6314.0	6213.0
65°	6505.9	6453.2	6727.8	6914.5	6940.8	6583.5	6539.6	6278.2	5879.1	5736.3
67.5°	6256.9	5905.5	5904.7	6010.9	6054.8	6095.8	6303.1	5791.2	5252.3	5101.5
70°	5834.4	5061.2	4828.3	4953.6	4916.9	5263.3	5880.6	5107.3	4496.6	4320.2
72.5°	5059.7	4016.3	3643.6	3804.7	3712.4	4127.6	5145.4	4203.0	3718.3	3501.5
75°	4101.2	3004.4	2619.9	2767.8	2710.7	3131.0	4281.4	3052.7	2666.8	2584.1
77.5°	3184.5	2176.9	1953.6	1933.1	1975.6	2330.0	3140.5	2061.2	1758.1	1701.7
80°	2045.9	1558.2	1571.4	1545.0	1567.0	1468.9	1906.7	1315.1	1190.6	1145.2
82.5°	1346.6	1085.9	1294.6	1195.0	1135.0	987.8	1250.7	861.1	730.8	705.9
85°	917.5	799.6	727.8	556.5	655.3	760.8	938.0	463.5	367.6	333.2
87.5°	414.4	278.2	204.3	125.9	199.2	229.9	455.4	54.2	41.7	43.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)