

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: P533698

Luminaire Tested: **GALN-SA9A-827-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533698
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-827-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22698 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

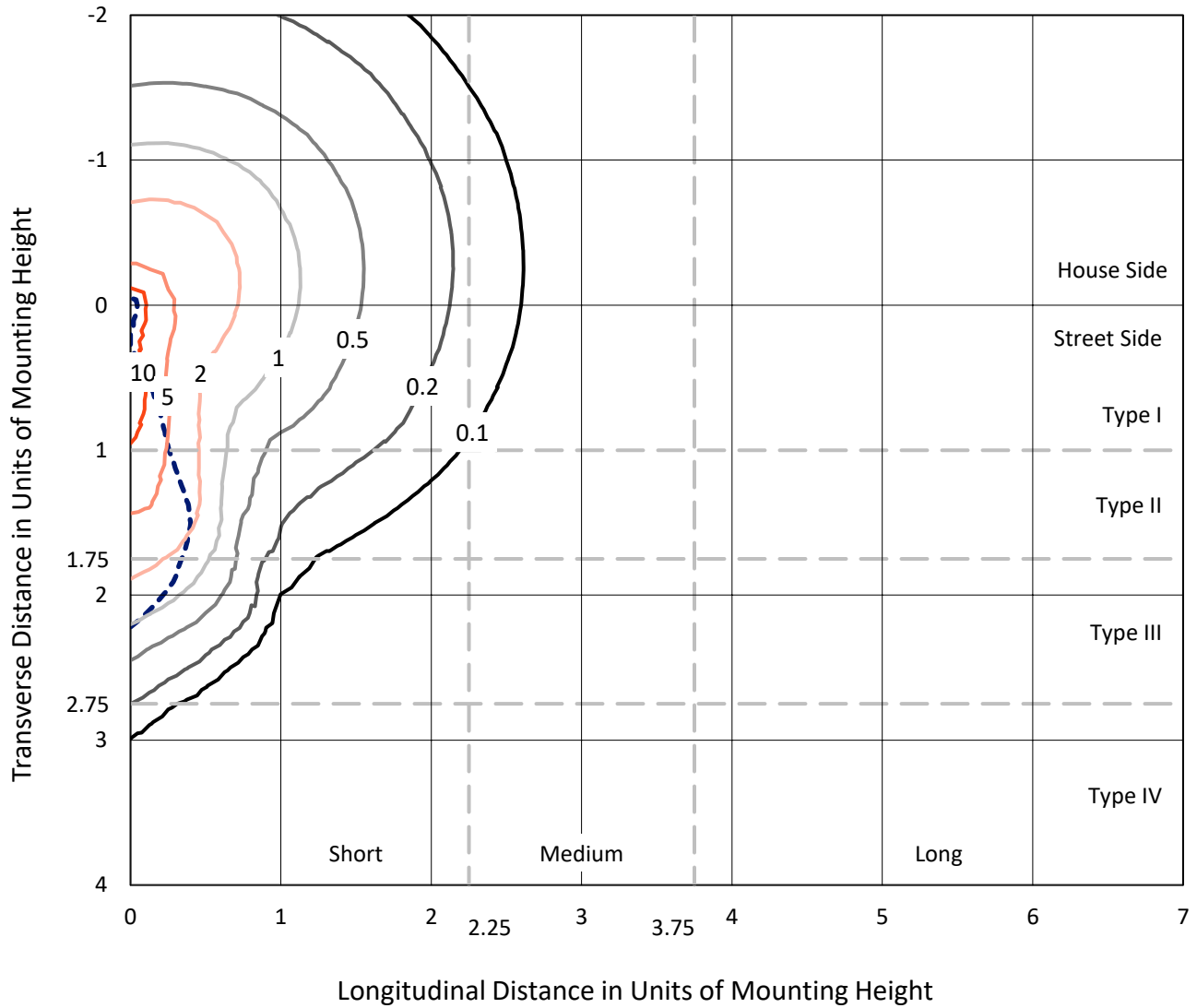
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P533698
 CATALOG NUMBER: GALN-SA9A-827-U-SLR-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

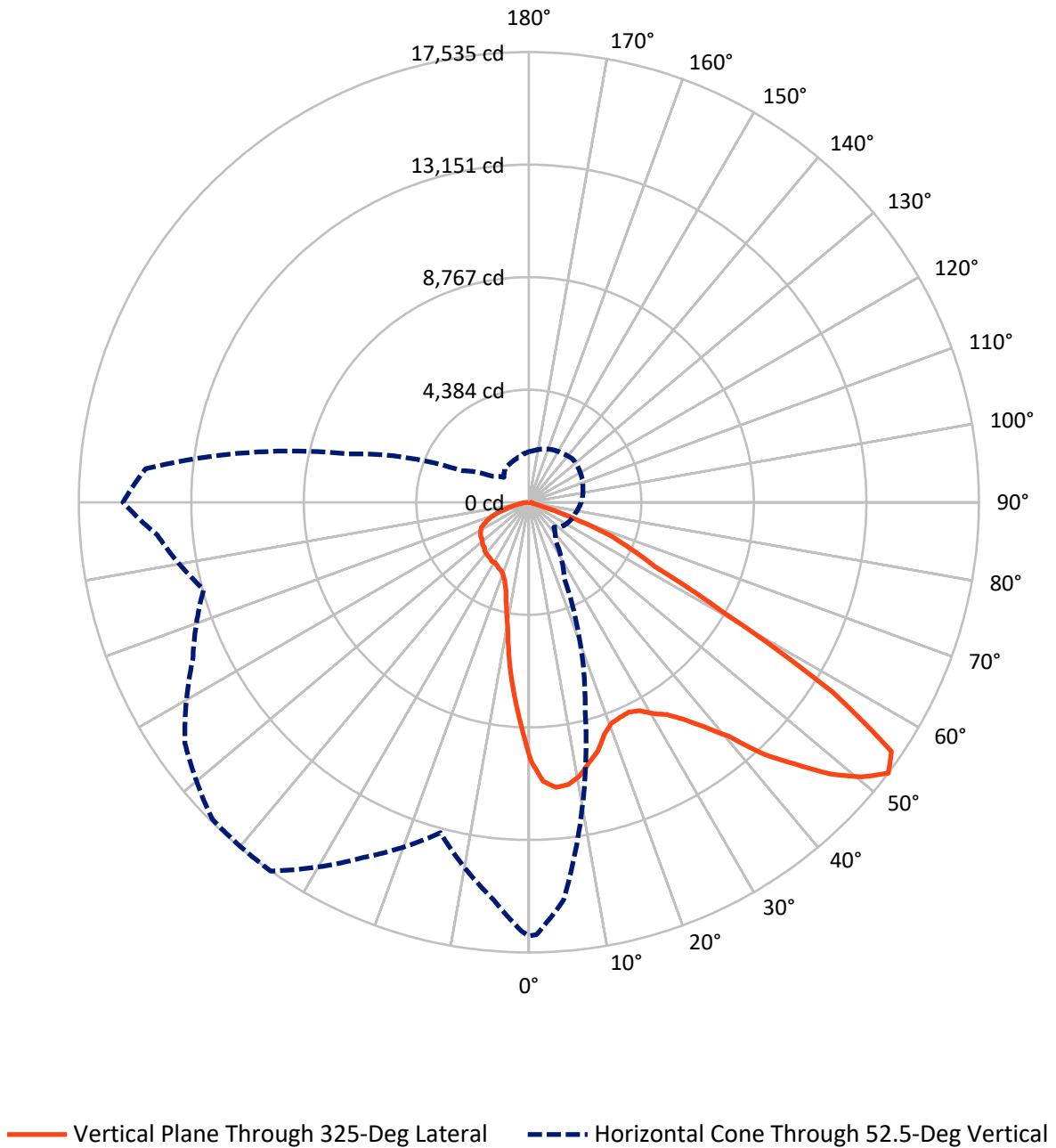
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.1 fc
 Type III - Short - N/A

REPORT NUMBER: P533698
CATALOG NUMBER: GALN-SA9A-827-U-SLR-GRSWH

Luminous Intensity Polar Plot



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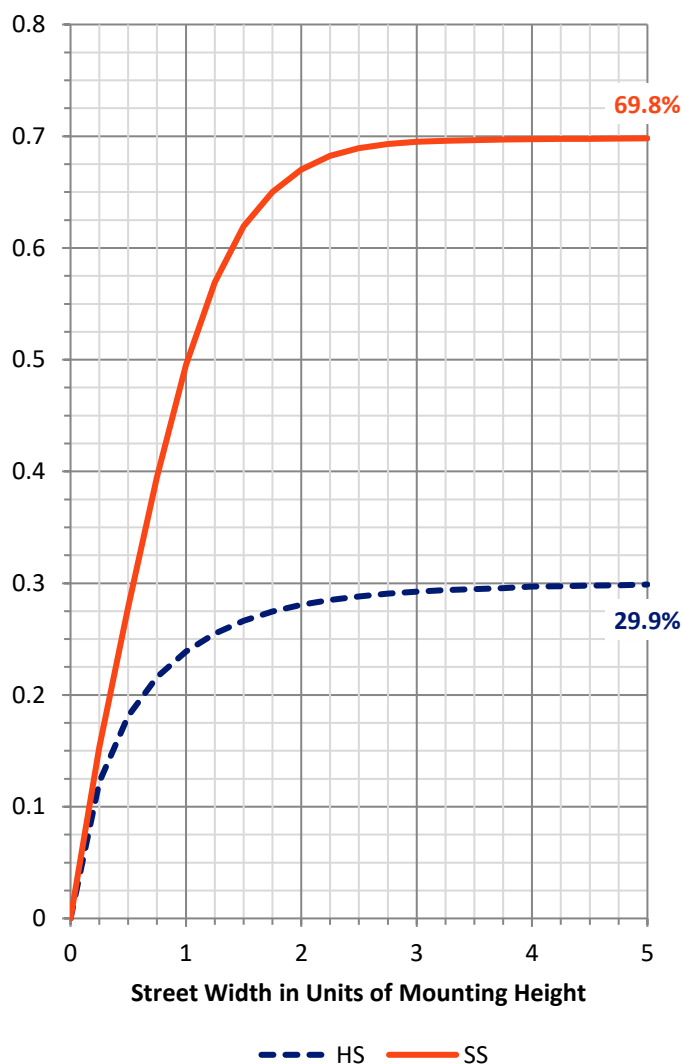
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6842.5	0.0	6842.5
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	15855.5	0.0	15855.5
	% Fixture	69.9	0.0	69.9
Total	Lumens	22698.0	0.0	22698.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	768.5	3.4
10°-20°	1666.0	7.3
20°-30°	2517.2	11.1
30°-40°	3637.5	16.0
40°-50°	4840.9	21.3
50°-60°	5414.7	23.9
60°-70°	3051.7	13.4
70°-80°	680.3	3.0
80°-90°	121.1	0.5
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°	22698.0	100.0
0°-180°	22698.0	100.0

Coefficient of Utilization



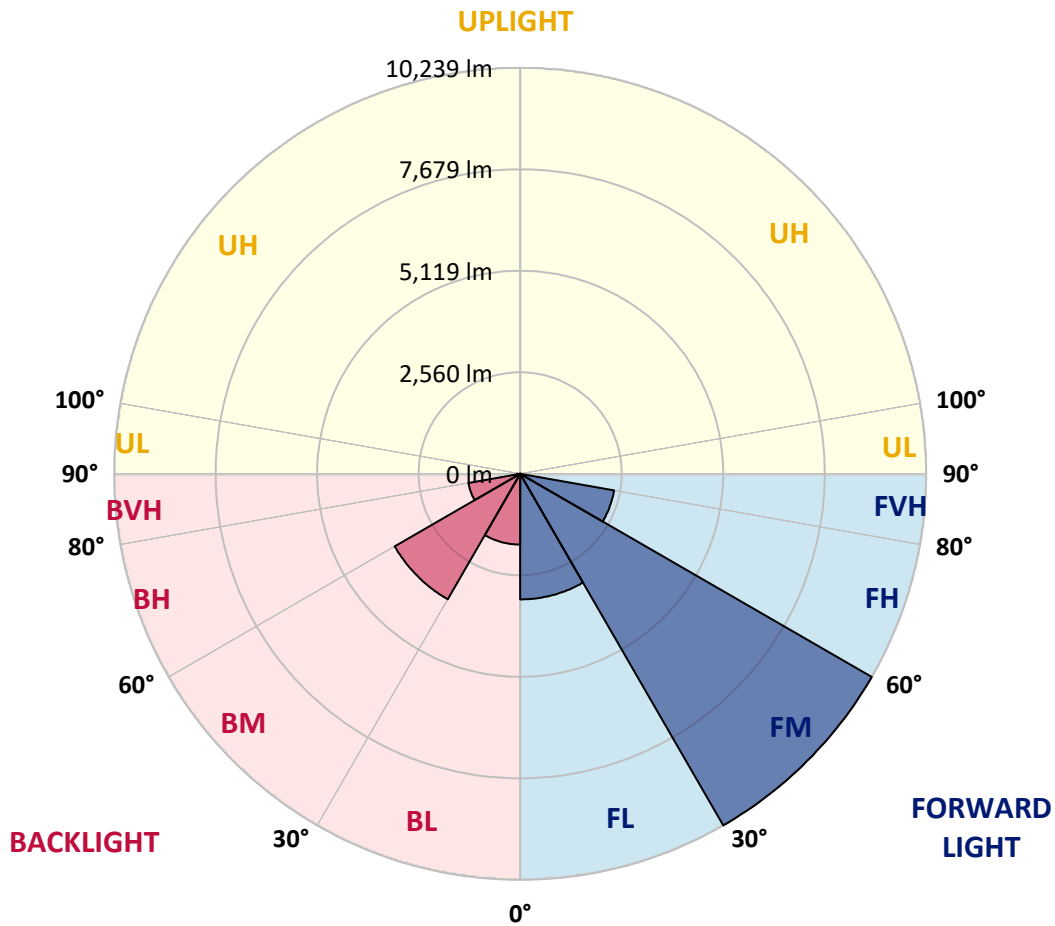
REPORT NUMBER: P533698
 CATALOG NUMBER: GALN-SA9A-827-U-SLR-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3167.5	14.0			
FM (30°-60°)	10238.5	45.1			
FH (60°-80°)	2405.6	10.6			G2/5000
FVH (80°-90°)	43.9	0.2			G1/100
BL (0°-30°)	1784.4	7.9	B3/2500		
BM (30°-60°)	3654.6	16.1	B3/5000		
BH (60°-80°)	1326.3	5.8	B3/2500		G3/2500
BVH (80°-90°)	77.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





REPORT NUMBER: P533698

CATALOG NUMBER: GALN-SA9A-827-U-SLR-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10073.5	10073.5	10073.5	10073.5	10073.5	10073.5	10073.5	10073.5	10073.5	10073.5	10073.5
2.5°	10241.3	10405.8	10228.1	9912.3	9688.6	9484.6	9270.8	9228.0	8948.4	8899.0	8695.1
5°	9659.0	9622.8	9405.7	8991.2	8533.9	8119.3	7813.4	7517.3	7316.6	7083.0	7066.6
7.5°	8951.7	8741.1	8616.1	7987.7	7421.9	6770.5	6490.9	6040.2	5898.7	5688.1	5579.6
10°	8320.0	8165.4	7872.6	7244.2	6454.7	6023.7	5724.3	5480.9	5316.4	5099.3	4826.2
12.5°	8007.5	7945.0	7616.0	6642.2	6056.6	5596.0	5385.5	5148.6	4869.0	4520.2	4385.4
15°	8063.4	7852.9	7602.8	6527.1	5717.8	5273.6	4938.1	4642.0	4283.4	3951.1	3757.0
17.5°	8481.2	8320.0	7820.0	6599.4	5589.5	4947.9	4339.3	3901.8	3579.4	3280.0	3145.1
20°	9303.7	9070.1	8507.5	6691.5	5313.1	4493.9	3796.5	3256.9	2911.5	2753.6	2707.5
22.5°	10215.0	10076.8	9178.7	6898.8	5092.7	4072.8	3220.8	2681.2	2552.9	2510.2	2595.7
25°	11323.7	10965.1	10221.6	7237.7	4921.6	3714.2	2733.9	2434.5	2368.7	2411.5	2510.2
27.5°	12165.9	12070.4	10951.9	7556.8	4688.0	3283.3	2460.8	2263.4	2283.2	2325.9	2418.0
30°	13166.0	12682.4	11659.2	7777.2	4477.5	2987.2	2270.0	2217.4	2237.1	2309.5	2355.5
32.5°	13768.0	13587.1	12103.3	8109.5	4234.0	2730.6	2122.0	2072.6	2102.2	2210.8	2319.3
35°	14534.5	14176.0	12652.8	8195.0	4063.0	2628.6	2016.7	1980.5	2049.6	2125.2	2247.0
37.5°	15429.4	15182.6	13412.7	8135.8	3970.8	2523.3	1927.9	1911.4	1960.7	2066.0	2207.5
40°	15959.0	15883.4	13810.8	8172.0	3826.1	2431.2	1825.9	1845.6	1947.6	2029.8	2168.0
42.5°	16469.0	15975.5	14399.7	8158.8	3734.0	2306.2	1835.7	1812.7	1891.7	1987.1	2118.7
45°	16580.8	16090.6	14537.8	8066.7	3622.1	2184.5	1760.1	1769.9	1865.3	1983.8	2069.3
47.5°	16508.5	16146.6	14794.4	8040.4	3516.8	2098.9	1648.2	1766.6	1822.6	1918.0	2039.7
50°	16459.1	16439.4	15011.6	8165.4	3375.4	1964.0	1513.3	1723.9	1779.8	1875.2	2006.8
52.5°	16893.4	16850.6	15554.4	8494.4	3263.5	1819.3	1375.2	1615.3	1750.2	1842.3	1970.6
55°	17156.6	16969.0	16485.4	8899.0	3076.0	1628.5	1279.8	1480.4	1677.8	1760.1	1891.7
57.5°	15432.7	15304.4	14912.9	8306.9	2760.2	1378.4	1161.3	1342.3	1579.1	1707.4	1842.3
60°	12840.3	12639.6	11636.2	7060.0	2036.4	1072.5	1088.9	1233.7	1552.8	1602.2	1760.1
62.5°	12106.6	11609.9	10244.6	5681.6	1562.7	921.2	977.1	1135.0	1414.6	1496.9	1654.8
65°	9606.4	9237.9	7329.8	4102.4	1046.2	799.4	891.5	1023.1	1220.5	1381.7	1526.5
67.5°	6013.8	5661.8	3911.6	1941.0	730.3	684.3	796.1	934.3	1095.5	1240.3	1401.5
70°	3141.8	2756.9	1806.1	700.7	503.3	559.3	664.5	796.1	954.1	1072.5	1197.5
72.5°	1171.2	950.8	588.9	302.7	348.7	427.7	539.5	634.9	746.8	891.5	960.6
75°	180.9	154.6	151.3	184.2	236.9	309.2	384.9	480.3	579.0	671.1	717.2
77.5°	85.5	82.2	92.1	121.7	157.9	220.4	279.6	371.8	450.7	509.9	536.2
80°	55.9	52.6	59.2	82.2	118.4	164.5	223.7	286.2	358.6	407.9	401.4
82.5°	32.9	36.2	36.2	55.9	82.2	118.4	161.2	217.1	266.5	309.2	282.9
85°	19.7	16.4	16.4	32.9	55.9	95.4	134.9	92.1	95.4	95.4	108.6
87.5°	6.6	6.6	6.6	3.3	6.6	6.6	9.9	16.4	19.7	23.0	29.6
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: P533698

CATALOG NUMBER: GALN-SA9A-827-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10073.5	10073.5	10073.5	10073.5	10073.5	10073.5	10073.5	10073.5	10073.5	10073.5	10073.5
2.5°	8688.5	8790.5	8754.3	8626.0	8724.7	8741.1	8675.3	8902.3	8945.1	8876.0	8895.7
5°	7043.6	7069.9	7129.1	7254.1	7342.9	7448.2	7448.2	7454.8	7366.0	7589.7	7523.9
7.5°	5487.5	5503.9	5573.0	5839.5	5915.1	6115.8	6201.4	6142.1	5964.5	5888.8	5951.3
10°	4737.4	4642.0	4618.9	4651.8	4822.9	4908.5	4980.8	4961.1	4931.5	4872.3	4806.5
12.5°	4237.3	4168.2	4112.3	4033.4	4043.2	4125.5	4181.4	4135.3	4148.5	4161.7	4181.4
15°	3694.5	3645.2	3615.5	3497.1	3483.9	3539.9	3559.6	3585.9	3635.3	3638.6	3615.5
17.5°	3118.8	3076.0	3141.8	3207.6	3161.5	3164.8	3201.0	3224.1	3210.9	3151.7	3122.1
20°	2724.0	2770.1	2835.8	2898.4	2947.7	2977.3	2990.5	2954.3	2911.5	2789.8	2786.5
22.5°	2608.8	2668.1	2724.0	2819.4	2865.5	2941.1	2872.0	2789.8	2730.6	2671.4	2602.3
25°	2523.3	2572.7	2684.5	2720.7	2809.5	2872.0	2822.7	2740.4	2638.5	2552.9	2500.3
27.5°	2460.8	2516.7	2589.1	2687.8	2756.9	2793.1	2743.7	2710.8	2605.6	2503.6	2427.9
30°	2421.3	2480.5	2612.1	2694.4	2753.6	2783.2	2697.7	2658.2	2582.5	2497.0	2431.2
32.5°	2395.0	2447.6	2559.5	2664.8	2704.3	2704.3	2717.4	2671.4	2566.1	2421.3	2365.4
35°	2309.5	2381.8	2474.0	2595.7	2668.1	2710.8	2645.0	2592.4	2523.3	2375.3	2273.3
37.5°	2260.1	2309.5	2427.9	2543.1	2605.6	2651.6	2625.3	2533.2	2441.1	2319.3	2237.1
40°	2207.5	2286.4	2391.7	2500.3	2569.4	2615.4	2595.7	2487.1	2375.3	2260.1	2204.2
42.5°	2171.3	2223.9	2332.5	2454.2	2536.5	2625.3	2566.1	2431.2	2352.2	2194.3	2131.8
45°	2141.7	2227.2	2342.4	2391.7	2477.3	2569.4	2464.1	2381.8	2289.7	2174.6	2122.0
47.5°	2105.5	2184.5	2260.1	2391.7	2431.2	2474.0	2454.2	2322.6	2243.7	2118.7	2082.5
50°	2092.3	2122.0	2260.1	2332.5	2388.4	2431.2	2378.6	2279.9	2204.2	2075.9	1996.9
52.5°	2039.7	2095.6	2184.5	2279.9	2349.0	2401.6	2316.1	2253.5	2151.6	2016.7	1967.3
55°	1973.9	2006.8	2164.7	2263.4	2299.6	2335.8	2302.9	2200.9	2095.6	1957.5	1908.1
57.5°	1888.4	1964.0	2092.3	2230.5	2276.6	2296.3	2243.7	2161.4	2029.8	1908.1	1829.2
60°	1799.5	1878.5	2020.0	2131.8	2177.9	2250.3	2171.3	2122.0	1970.6	1835.7	1750.2
62.5°	1710.7	1799.5	1904.8	2046.3	2085.8	2115.4	2095.6	2026.5	1904.8	1753.5	1648.2
65°	1605.4	1671.2	1802.8	1875.2	1901.5	1970.6	1901.5	1875.2	1766.6	1621.9	1533.1
67.5°	1447.5	1503.5	1618.6	1687.7	1707.4	1737.0	1733.7	1704.1	1582.4	1483.7	1404.8
70°	1266.6	1315.9	1388.3	1470.6	1480.4	1516.6	1483.7	1477.1	1398.2	1263.3	1220.5
72.5°	1016.6	1062.6	1158.0	1194.2	1197.5	1210.7	1194.2	1171.2	1151.4	1010.0	967.2
75°	779.7	806.0	852.1	885.0	885.0	901.4	891.5	868.5	815.9	727.1	684.3
77.5°	542.8	569.1	628.4	648.1	644.8	651.4	621.8	598.8	519.8	473.7	437.5
80°	394.8	411.2	440.8	454.0	457.3	467.2	431.0	411.2	365.2	312.5	296.1
82.5°	286.2	296.1	299.4	315.8	315.8	299.4	289.5	269.8	236.9	204.0	190.8
85°	118.4	121.7	125.0	144.8	148.0	177.7	164.5	154.6	134.9	115.1	105.3
87.5°	29.6	32.9	42.8	36.2	42.8	42.8	46.1	52.6	52.6	42.8	42.8
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°	10073.5	10073.5	10073.5	10073.5	10073.5	10073.5	10073.5	10073.5	10073.5	10073.5	10073.5
2.5°	8971.4	8997.7	9333.3	9376.1	9540.6	9708.3	10047.2	10290.6	10488.0	10616.3	10652.5
5°	7593.0	7760.7	7915.4	8165.4	8392.4	8714.8	9086.6	9547.1	10126.1	10422.2	10540.7
7.5°	5944.8	6142.1	6365.9	6609.3	6941.6	7520.6	8017.4	8550.3	9290.5	9596.5	10060.4
10°	4852.5	5072.9	5369.0	5556.6	5957.9	6510.6	7089.6	7704.8	8412.1	8853.0	9389.2
12.5°	4290.0	4470.9	4744.0	5138.7	5438.1	5796.7	6227.7	7004.1	8017.4	8435.2	8803.6
15°	3668.2	3868.9	4184.7	4622.2	4980.8	5408.5	5892.1	6737.6	7816.7	8461.5	8774.0
17.5°	3155.0	3299.7	3632.0	4010.3	4421.6	4888.7	5582.9	6724.4	8027.2	8853.0	9362.9
20°	2799.7	2819.4	3000.3	3322.7	3882.0	4490.6	5392.1	6658.7	8701.6	9527.4	10172.2
22.5°	2576.0	2556.2	2559.5	2832.6	3224.1	4099.1	5092.7	6882.4	9468.2	10599.9	11034.1
25°	2464.1	2411.5	2378.6	2437.8	2793.1	3635.3	4865.7	7178.4	10293.9	11484.9	12017.8
27.5°	2404.9	2312.8	2247.0	2256.8	2516.7	3401.7	4724.2	7306.8	11113.1	12718.5	12906.1
30°	2381.8	2266.7	2171.3	2138.4	2309.5	3076.0	4421.6	7527.2	11846.7	13396.3	13557.5
32.5°	2299.6	2158.1	2066.0	2036.4	2105.5	2789.8	4204.4	7685.1	12494.8	14133.2	14077.3
35°	2204.2	2085.8	1970.6	1914.7	1964.0	2605.6	4030.1	7609.4	13258.1	14705.6	14676.0
37.5°	2194.3	2039.7	1944.3	1852.2	1848.9	2378.6	3793.2	7681.8	13745.0	15732.0	15327.4
40°	2108.8	2010.1	1885.1	1809.4	1766.6	2263.4	3562.9	7510.7	14458.9	16146.6	15748.5
42.5°	2112.1	1964.0	1855.5	1766.6	1723.9	2095.6	3405.0	7464.7	14708.9	16821.0	15945.9
45°	2059.4	1914.7	1822.6	1717.3	1694.3	1967.3	3253.7	7250.8	15149.7	16853.9	15699.2
47.5°	2006.8	1878.5	1779.8	1654.8	1602.2	1921.3	3135.2	7073.2	14919.5	16544.6	15357.0
50°	1970.6	1822.6	1730.5	1641.6	1493.6	1842.3	2980.6	7030.4	14597.1	16126.8	14722.1
52.5°	1908.1	1776.5	1681.1	1612.0	1375.2	1769.9	2921.4	7280.4	14991.8	15814.3	14537.8
55°	1848.9	1714.0	1592.3	1457.4	1276.5	1579.1	2756.9	7514.0	15567.6	16534.8	15373.5
57.5°	1786.4	1658.1	1526.5	1365.3	1181.1	1381.7	2585.8	7556.8	14488.5	15281.3	14593.8
60°	1704.1	1539.6	1441.0	1230.4	1079.1	1144.9	2049.6	6661.9	11238.1	12761.3	12784.3
62.5°	1612.0	1434.4	1348.8	1102.1	973.8	987.0	1671.2	5599.3	9116.2	10563.7	11192.1
65°	1490.3	1319.2	1217.2	1019.9	898.1	855.4	1223.8	4102.4	6925.1	8570.1	9283.9
67.5°	1332.4	1171.2	1042.9	888.3	802.7	733.6	835.6	2309.5	4089.3	5753.9	5971.1
70°	1164.6	1026.4	891.5	763.2	667.8	618.5	611.9	1023.1	1954.2	3095.7	3523.4
72.5°	917.9	819.2	710.6	615.2	552.7	480.3	437.5	424.4	661.3	1260.0	1740.3
75°	658.0	575.7	513.2	450.7	404.7	365.2	332.3	302.7	276.3	315.8	434.3
77.5°	414.5	384.9	335.6	319.1	292.8	282.9	269.8	253.3	233.6	220.4	220.4
80°	279.6	259.9	243.4	240.2	230.3	227.0	230.3	213.8	194.1	177.7	184.2
82.5°	187.5	184.2	180.9	177.7	180.9	184.2	190.8	187.5	171.1	161.2	164.5
85°	111.9	118.4	125.0	131.6	144.8	128.3	105.3	88.8	79.0	72.4	69.1
87.5°	42.8	59.2	52.6	49.3	52.6	49.3	46.1	42.8	36.2	32.9	32.9
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: P533698

CATALOG NUMBER: GALN-SA9A-827-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10073.5	10073.5	10073.5	10073.5	10073.5	10073.5	10073.5	10073.5	10073.5	10073.5
2.5°	10892.7	10958.5	11014.4	11001.2	10886.1	10731.5	10669.0	10349.9	10284.1	10241.3
5°	11040.7	11422.3	11504.6	11455.2	11155.9	10777.5	10409.1	9941.9	9668.9	9659.0
7.5°	10767.7	11238.1	11386.2	11498.0	11099.9	10442.0	9810.3	9109.6	8938.5	8951.7
10°	10073.5	10823.6	11188.8	11303.9	10846.6	10277.5	9402.4	8691.8	8326.6	8320.0
12.5°	9688.6	10277.5	10379.5	10540.7	10405.8	9830.1	9165.5	8369.4	8014.1	8007.5
15°	9346.5	9734.7	9764.3	9991.3	10063.6	9675.4	9228.0	8379.2	8093.0	8063.4
17.5°	9645.8	9376.1	9264.2	9293.8	9507.7	9649.1	9589.9	8938.5	8645.7	8481.2
20°	9846.5	9244.5	8905.6	8938.5	9191.8	9708.3	10129.4	9747.8	9283.9	9303.7
22.5°	10382.8	9264.2	8734.5	8698.4	9099.7	10017.6	10738.1	10771.0	10323.5	10215.0
25°	11185.5	9491.2	8681.9	8672.0	9056.9	10349.9	11448.7	11981.6	11524.3	11323.7
27.5°	11830.3	9846.5	8846.4	8879.3	9191.8	10619.6	12054.0	12761.3	12412.6	12165.9
30°	12396.1	10215.0	9076.7	8925.4	9553.7	10761.1	12313.9	13649.6	13369.9	13166.0
32.5°	12629.7	10738.1	9441.9	9191.8	9853.1	10932.2	12853.4	14511.5	14271.4	13768.0
35°	13024.5	11030.9	9639.3	9619.5	10376.2	11343.4	13106.8	15080.7	14982.0	14534.5
37.5°	13340.3	11326.9	10340.0	10122.9	11093.4	12034.3	13514.7	15866.9	15639.9	15429.4
40°	13583.8	11856.6	10994.7	11280.9	11975.0	12662.6	13889.7	15916.3	16571.0	15959.0
42.5°	13360.1	12330.3	12070.4	12754.7	13412.7	13379.8	13932.5	16297.9	16788.1	16469.0
45°	13304.1	13133.1	13771.3	14393.1	14544.4	13975.3	13626.5	15876.8	16722.3	16580.8
47.5°	13169.3	13922.6	15034.6	16047.9	15817.6	14373.3	13261.4	15801.1	16761.8	16508.5
50°	13123.2	14093.7	15968.9	16955.9	16817.7	14718.8	13090.3	15314.2	16482.1	16459.1
52.5°	13119.9	14445.7	16357.1	17449.3	17534.9	15264.9	13323.9	15561.0	16699.3	16893.4
55°	13268.0	14333.9	16307.8	17176.3	17143.4	15021.4	13350.2	15725.5	16965.7	17156.6
57.5°	12514.6	12840.3	13458.8	14146.3	13968.7	12442.2	11922.4	14537.8	15570.8	15432.7
60°	10807.1	9787.3	9089.8	9056.9	8711.5	8234.5	9757.7	12975.2	12975.2	12840.3
62.5°	9464.9	6425.1	5520.4	5263.8	5510.5	6059.9	9412.3	12619.9	12261.3	12106.6
65°	8277.3	4905.2	3990.6	3918.2	4345.9	5174.9	8510.8	10751.2	10119.6	9606.4
67.5°	5326.3	3592.5	2967.4	2839.1	3355.6	3799.8	5665.1	6612.6	6214.5	6013.8
70°	3434.6	2339.1	1651.5	1549.5	1750.2	2342.4	3618.8	3855.7	3276.7	3141.8
72.5°	1625.2	1010.0	579.0	477.0	536.2	894.8	1431.1	1539.6	1279.8	1171.2
75°	516.5	371.8	236.9	204.0	194.1	230.3	329.0	253.3	184.2	180.9
77.5°	230.3	220.4	187.5	157.9	138.2	115.1	95.4	79.0	82.2	85.5
80°	190.8	174.4	154.6	138.2	115.1	88.8	69.1	52.6	52.6	55.9
82.5°	167.8	151.3	134.9	115.1	98.7	72.4	52.6	36.2	32.9	32.9
85°	72.4	85.5	92.1	98.7	79.0	59.2	36.2	23.0	19.7	19.7
87.5°	29.6	26.3	23.0	19.7	16.4	16.4	13.2	9.9	6.6	6.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)