

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: P530500

Luminaire Tested: **GALN-SA5D-727-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530500
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-SA5D-727-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1200mA 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: 24130 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

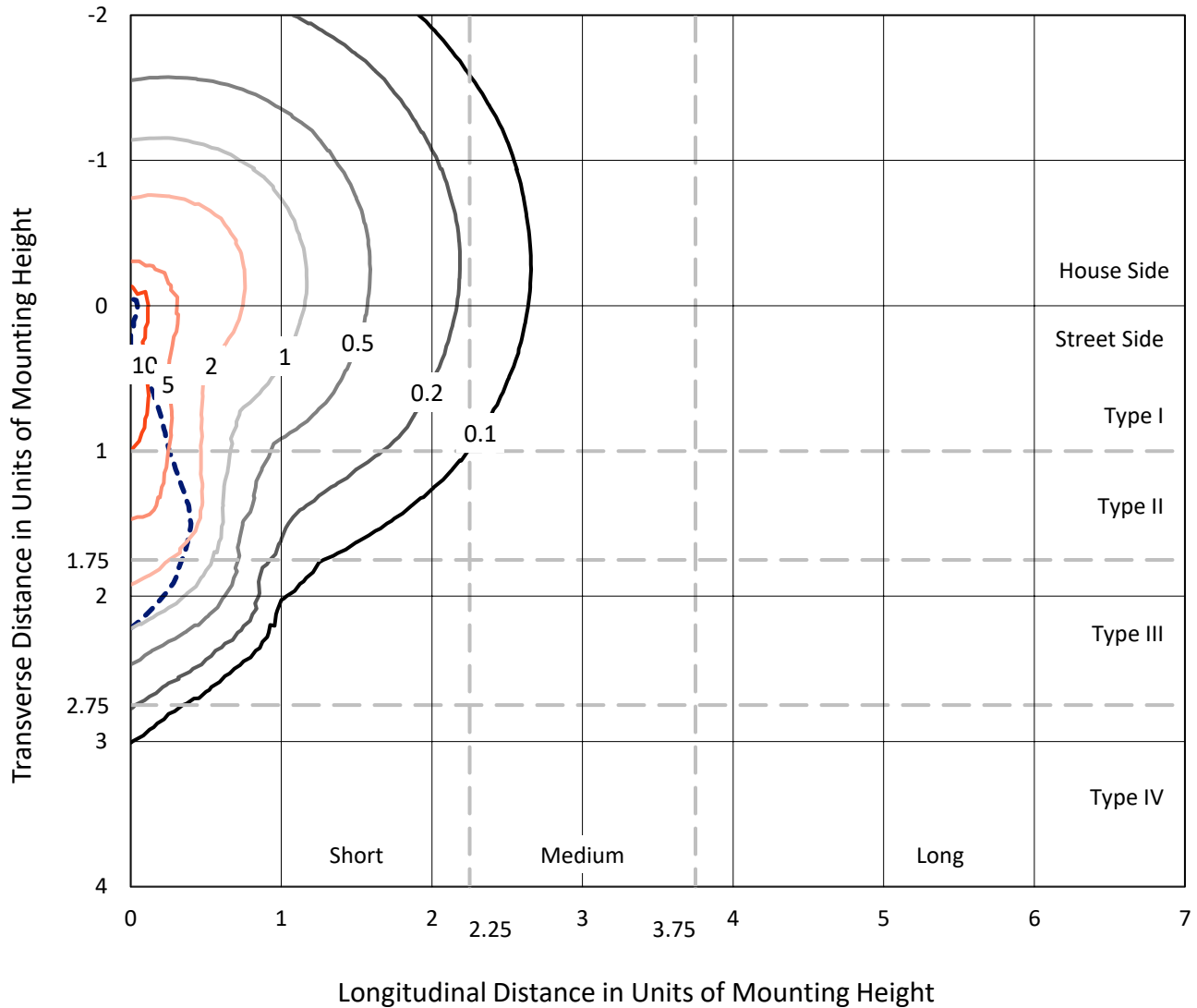
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P530500
 CATALOG NUMBER: GALN-SA5D-727-U-SLR-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

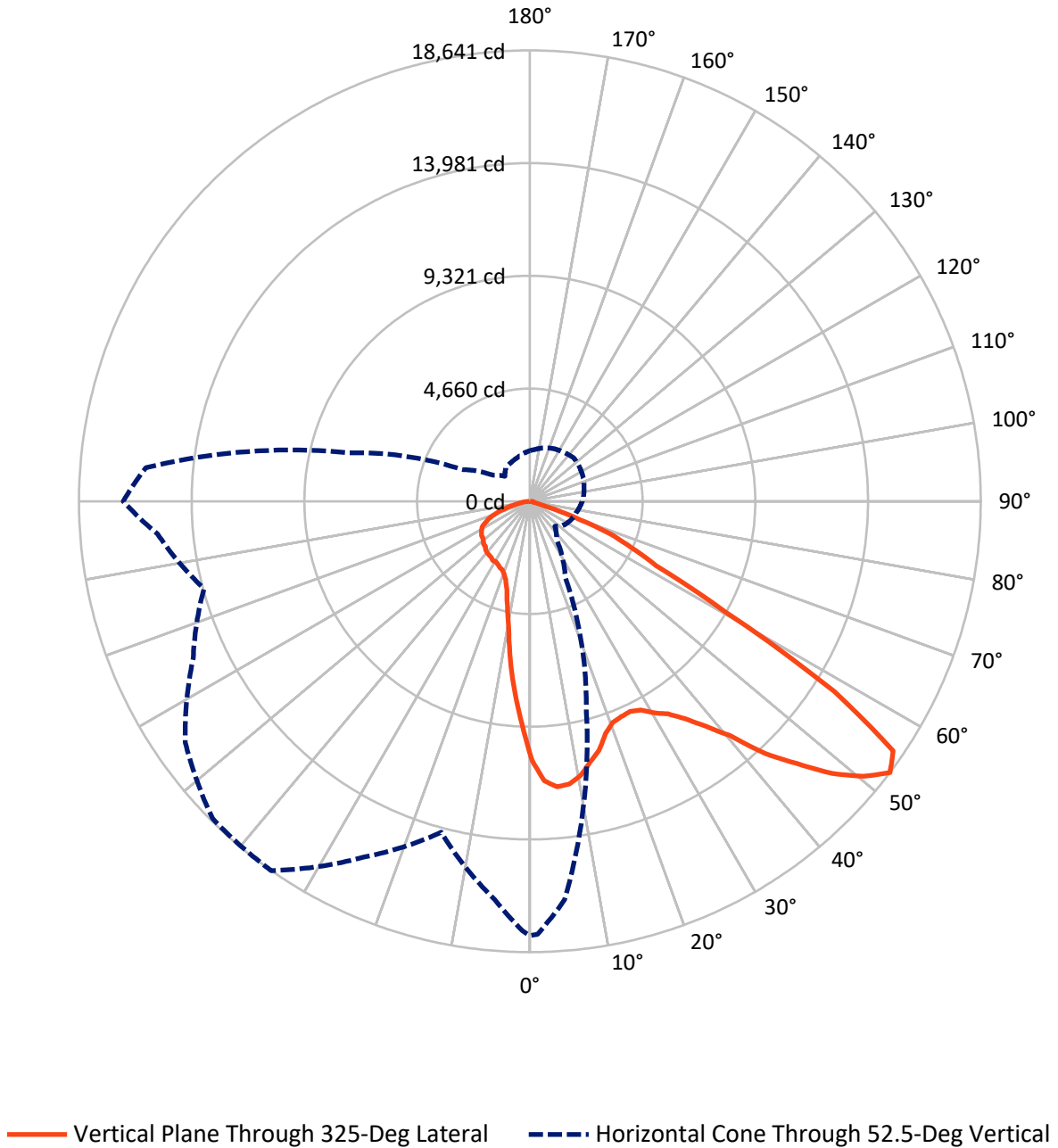
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.1 fc
 Type III - Short - N/A

REPORT NUMBER: P530500
CATALOG NUMBER: GALN-SA5D-727-U-SLR-GRSWH

Luminous Intensity Polar Plot



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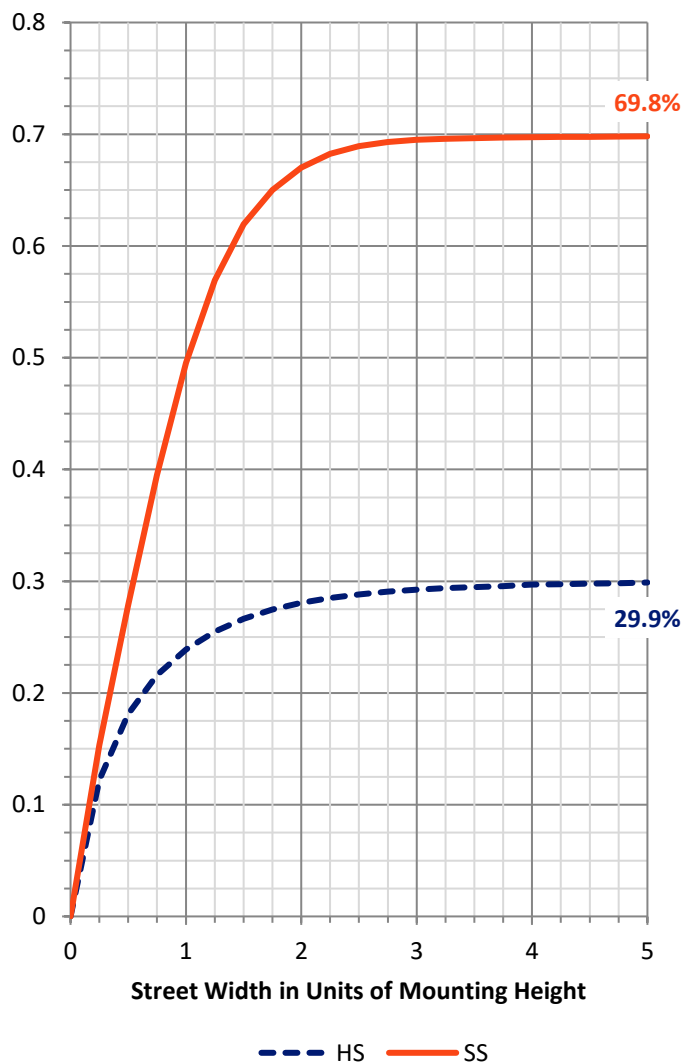
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7274.2	0.0	7274.2
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	16855.8	0.0	16855.8
	% Fixture	69.9	0.0	69.9
Total	Lumens	24130.0	0.0	24130.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	817.0	3.4
10°-20°	1771.2	7.3
20°-30°	2676.1	11.1
30°-40°	3867.0	16.0
40°-50°	5146.3	21.3
50°-60°	5756.3	23.9
60°-70°	3244.2	13.4
70°-80°	723.2	3.0
80°-90°	128.8	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°	24130.0	100.0
0°-180°	24130.0	100.0

Coefficient of Utilization



REPORT NUMBER: P530500

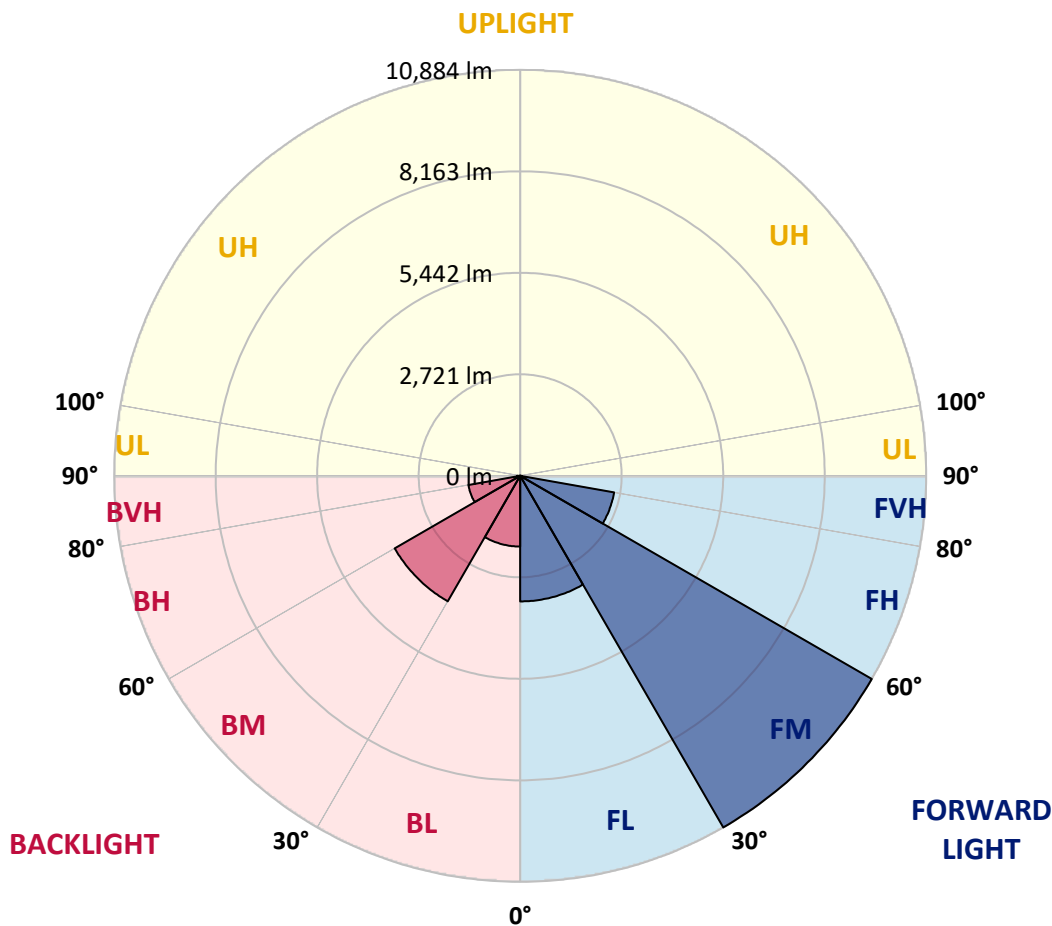
CATALOG NUMBER: GALN-SA5D-727-U-SLR-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3367.3	14.0			
FM (30°-60°)	10884.5	45.1			
FH (60°-80°)	2557.4	10.6			G2/5000
FVH (80°-90°)	46.6	0.2			G1/100
BL (0°-30°)	1896.9	7.9	B3/2500		
BM (30°-60°)	3885.1	16.1	B3/5000		
BH (60°-80°)	1410.0	5.8	B3/2500		G3/2500
BVH (80°-90°)	82.2	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: P530500

CATALOG NUMBER: GALN-SA5D-727-U-SLR-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10709.0	10709.0	10709.0	10709.0	10709.0	10709.0	10709.0	10709.0	10709.0	10709.0	10709.0
2.5°	10887.4	11062.3	10873.4	10537.7	10299.8	10083.0	9855.7	9810.2	9512.9	9460.5	9243.6
5°	10268.4	10229.9	9999.1	9558.4	9072.3	8631.6	8306.3	7991.6	7778.2	7529.9	7512.4
7.5°	9516.4	9292.6	9159.7	8491.7	7890.1	7197.7	6900.4	6421.2	6270.8	6047.0	5931.6
10°	8844.9	8680.5	8369.3	7701.3	6861.9	6403.7	6085.5	5826.7	5651.8	5421.0	5130.7
12.5°	8512.7	8446.2	8096.5	7061.3	6438.7	5949.1	5725.2	5473.4	5176.2	4805.4	4662.0
15°	8572.1	8348.3	8082.5	6938.8	6078.5	5606.3	5249.6	4934.8	4553.6	4200.4	3994.0
17.5°	9016.3	8844.9	8313.3	7015.8	5942.1	5260.1	4613.1	4147.9	3805.2	3486.9	3343.5
20°	9890.7	9642.3	9044.3	7113.7	5648.3	4777.4	4036.0	3462.4	3095.2	2927.3	2878.4
22.5°	10859.4	10712.5	9757.7	7334.1	5414.0	4329.8	3424.0	2850.4	2714.0	2668.5	2759.4
25°	12038.1	11656.8	10866.4	7694.3	5232.1	3948.6	2906.3	2588.1	2518.1	2563.6	2668.5
27.5°	12933.4	12832.0	11642.8	8033.5	4983.8	3490.4	2616.1	2406.2	2427.2	2472.7	2570.6
30°	13996.6	13482.5	12394.8	8267.9	4760.0	3175.6	2413.2	2357.2	2378.2	2455.2	2504.1
32.5°	14636.6	14444.3	12866.9	8621.1	4501.2	2902.8	2255.8	2203.4	2234.8	2350.3	2465.7
35°	15451.5	15070.3	13451.0	8712.0	4319.3	2794.4	2143.9	2105.4	2178.9	2259.3	2388.7
37.5°	16402.8	16140.5	14258.9	8649.1	4221.4	2682.5	2049.5	2032.0	2084.5	2196.4	2346.8
40°	16965.9	16885.5	14682.1	8687.5	4067.5	2584.6	1941.1	1962.0	2070.5	2157.9	2304.8
42.5°	17508.0	16983.4	15308.1	8673.6	3969.6	2451.7	1951.5	1927.1	2011.0	2112.4	2252.3
45°	17626.9	17105.8	15455.0	8575.6	3850.6	2322.3	1871.1	1881.6	1983.0	2108.9	2199.9
47.5°	17550.0	17165.2	15727.8	8547.6	3738.7	2231.3	1752.2	1878.1	1937.6	2039.0	2168.4
50°	17497.5	17476.5	15958.6	8680.5	3588.3	2087.9	1608.8	1832.6	1892.1	1993.5	2133.4
52.5°	17959.2	17913.7	16535.7	9030.3	3469.4	1934.1	1461.9	1717.2	1860.6	1958.5	2094.9
55°	18238.9	18039.6	17525.5	9460.5	3270.1	1731.2	1360.5	1573.8	1783.7	1871.1	2011.0
57.5°	16406.3	16269.9	15853.7	8830.9	2934.3	1465.4	1234.6	1426.9	1678.8	1815.2	1958.5
60°	13650.4	13437.0	12370.3	7505.4	2164.9	1140.2	1157.6	1311.5	1650.8	1703.2	1871.1
62.5°	12870.4	12342.3	10890.9	6040.0	1661.3	979.3	1038.7	1206.6	1503.9	1591.3	1759.2
65°	10212.4	9820.7	7792.2	4361.3	1112.2	849.9	947.8	1087.7	1297.5	1468.9	1622.8
67.5°	6393.2	6019.0	4158.4	2063.5	776.4	727.5	846.4	993.3	1164.6	1318.5	1489.9
70°	3340.0	2930.8	1920.1	744.9	535.1	594.6	706.5	846.4	1014.2	1140.2	1273.1
72.5°	1245.1	1010.7	626.0	321.8	370.7	454.7	573.6	675.0	793.9	947.8	1021.2
75°	192.4	164.4	160.9	195.9	251.8	328.8	409.2	510.6	615.5	713.5	762.4
77.5°	90.9	87.4	97.9	129.4	167.9	234.3	297.3	395.2	479.1	542.1	570.1
80°	59.5	56.0	63.0	87.4	125.9	174.9	237.8	304.3	381.2	433.7	426.7
82.5°	35.0	38.5	38.5	59.5	87.4	125.9	171.4	230.8	283.3	328.8	300.8
85°	21.0	17.5	17.5	35.0	59.5	101.4	143.4	97.9	101.4	101.4	115.4
87.5°	7.0	7.0	7.0	3.5	7.0	7.0	10.5	17.5	21.0	24.5	31.5
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: P530500

CATALOG NUMBER: GALN-SA5D-727-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10709.0	10709.0	10709.0	10709.0	10709.0	10709.0	10709.0	10709.0	10709.0	10709.0	10709.0
2.5°	9236.6	9345.1	9306.6	9170.2	9275.1	9292.6	9222.6	9464.0	9509.4	9436.0	9457.0
5°	7487.9	7515.9	7578.9	7711.8	7806.2	7918.1	7918.1	7925.1	7830.7	8068.5	7998.6
7.5°	5833.7	5851.2	5924.6	6207.9	6288.3	6501.7	6592.6	6529.6	6340.8	6260.3	6326.8
10°	5036.3	4934.8	4910.4	4945.3	5127.2	5218.1	5295.1	5274.1	5242.6	5179.7	5109.7
12.5°	4504.7	4431.2	4371.8	4287.8	4298.3	4385.7	4445.2	4396.2	4410.2	4424.2	4445.2
15°	3927.6	3875.1	3843.6	3717.7	3703.7	3763.2	3784.2	3812.2	3864.6	3868.1	3843.6
17.5°	3315.5	3270.1	3340.0	3410.0	3361.0	3364.5	3403.0	3427.5	3413.5	3350.5	3319.0
20°	2895.8	2944.8	3014.8	3081.2	3133.7	3165.1	3179.1	3140.7	3095.2	2965.8	2962.3
22.5°	2773.4	2836.4	2895.8	2997.3	3046.2	3126.7	3053.2	2965.8	2902.8	2839.9	2766.4
25°	2682.5	2735.0	2853.9	2892.4	2986.8	3053.2	3000.8	2913.3	2804.9	2714.0	2658.0
27.5°	2616.1	2675.5	2752.5	2857.4	2930.8	2969.3	2916.8	2881.9	2769.9	2661.5	2581.1
30°	2574.1	2637.0	2776.9	2864.4	2927.3	2958.8	2867.9	2825.9	2745.5	2654.5	2584.6
32.5°	2546.1	2602.1	2721.0	2832.9	2874.9	2874.9	2888.9	2839.9	2728.0	2574.1	2514.6
35°	2455.2	2532.1	2630.0	2759.4	2836.4	2881.9	2811.9	2756.0	2682.5	2525.1	2416.7
37.5°	2402.7	2455.2	2581.1	2703.5	2769.9	2818.9	2790.9	2693.0	2595.1	2465.7	2378.2
40°	2346.8	2430.7	2542.6	2658.0	2731.5	2780.4	2759.4	2644.0	2525.1	2402.7	2343.3
42.5°	2308.3	2364.2	2479.7	2609.1	2696.5	2790.9	2728.0	2584.6	2500.6	2332.8	2266.3
45°	2276.8	2367.7	2490.1	2542.6	2633.5	2731.5	2619.6	2532.1	2434.2	2311.8	2255.8
47.5°	2238.3	2322.3	2402.7	2542.6	2584.6	2630.0	2609.1	2469.2	2385.2	2252.3	2213.9
50°	2224.3	2255.8	2402.7	2479.7	2539.1	2584.6	2528.6	2423.7	2343.3	2206.9	2122.9
52.5°	2168.4	2227.8	2322.3	2423.7	2497.1	2553.1	2462.2	2395.7	2287.3	2143.9	2091.4
55°	2098.4	2133.4	2301.3	2406.2	2444.7	2483.2	2448.2	2339.8	2227.8	2081.0	2028.5
57.5°	2007.5	2087.9	2224.3	2371.2	2420.2	2441.2	2385.2	2297.8	2157.9	2028.5	1944.6
60°	1913.1	1997.0	2147.4	2266.3	2315.3	2392.2	2308.3	2255.8	2094.9	1951.5	1860.6
62.5°	1818.6	1913.1	2025.0	2175.4	2217.4	2248.8	2227.8	2154.4	2025.0	1864.1	1752.2
65°	1706.7	1776.7	1916.6	1993.5	2021.5	2094.9	2021.5	1993.5	1878.1	1724.2	1629.8
67.5°	1538.9	1598.3	1720.7	1794.2	1815.2	1846.6	1843.1	1811.7	1682.2	1577.3	1493.4
70°	1346.5	1399.0	1475.9	1563.3	1573.8	1612.3	1577.3	1570.3	1486.4	1343.0	1297.5
72.5°	1080.7	1129.7	1231.1	1269.6	1273.1	1287.0	1269.6	1245.1	1224.1	1073.7	1028.2
75°	828.9	856.9	905.8	940.8	940.8	958.3	947.8	923.3	867.4	772.9	727.5
77.5°	577.1	605.1	668.0	689.0	685.5	692.5	661.0	636.5	552.6	503.6	465.2
80°	419.7	437.2	468.7	482.6	486.1	496.6	458.2	437.2	388.2	332.3	314.8
82.5°	304.3	314.8	318.3	335.8	335.8	318.3	307.8	286.8	251.8	216.8	202.8
85°	125.9	129.4	132.9	153.9	157.4	188.9	174.9	164.4	143.4	122.4	111.9
87.5°	31.5	35.0	45.5	38.5	45.5	45.5	49.0	56.0	56.0	45.5	45.5
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	10709.0	10709.0	10709.0	10709.0	10709.0	10709.0	10709.0	10709.0	10709.0	10709.0	10709.0
2.5°	9537.4	9565.4	9922.1	9967.6	10142.5	10320.8	10681.1	10939.9	11149.7	11286.1	11324.6
5°	8072.0	8250.4	8414.7	8680.5	8921.9	9264.6	9659.8	10149.5	10765.0	11079.8	11205.7
7.5°	6319.8	6529.6	6767.5	7026.3	7379.5	7995.1	8523.2	9089.7	9876.7	10201.9	10695.1
10°	5158.7	5393.0	5707.8	5907.1	6333.8	6921.4	7536.9	8190.9	8942.9	9411.5	9981.6
12.5°	4560.6	4753.0	5043.3	5462.9	5781.2	6162.4	6620.6	7446.0	8523.2	8967.3	9359.0
15°	3899.6	4112.9	4448.7	4913.8	5295.1	5749.7	6263.8	7162.7	8309.8	8995.3	9327.6
17.5°	3354.0	3507.9	3861.1	4263.3	4700.5	5197.1	5935.1	7148.7	8533.7	9411.5	9953.6
20°	2976.3	2997.3	3189.6	3532.4	4126.9	4774.0	5732.2	7078.7	9250.6	10128.5	10814.0
22.5°	2738.5	2717.5	2721.0	3011.3	3427.5	4357.8	5414.0	7316.6	10065.5	11268.6	11730.3
25°	2619.6	2563.6	2528.6	2591.6	2969.3	3864.6	5172.7	7631.3	10943.4	12209.4	12776.0
27.5°	2556.6	2458.7	2388.7	2399.2	2675.5	3616.3	5022.3	7767.7	11814.2	13521.0	13720.3
30°	2532.1	2409.7	2308.3	2273.3	2455.2	3270.1	4700.5	8002.1	12594.1	14241.4	14412.8
32.5°	2444.7	2294.3	2196.4	2164.9	2238.3	2965.8	4469.7	8169.9	13283.1	15024.8	14965.4
35°	2343.3	2217.4	2094.9	2035.5	2087.9	2769.9	4284.3	8089.5	14094.5	15633.4	15601.9
37.5°	2332.8	2168.4	2067.0	1969.0	1965.5	2528.6	4032.5	8166.4	14612.1	16724.6	16294.4
40°	2241.8	2136.9	2004.0	1923.6	1878.1	2406.2	3787.7	7984.6	15371.1	17165.2	16742.1
42.5°	2245.3	2087.9	1972.5	1878.1	1832.6	2227.8	3619.8	7935.6	15636.9	17882.2	16951.9
45°	2189.4	2035.5	1937.6	1825.6	1801.2	2091.4	3458.9	7708.3	16105.5	17917.2	16689.6
47.5°	2133.4	1997.0	1892.1	1759.2	1703.2	2042.5	3333.0	7519.4	15860.7	17588.4	16325.9
50°	2094.9	1937.6	1839.6	1745.2	1587.8	1958.5	3168.6	7473.9	15518.0	17144.3	15650.9
52.5°	2028.5	1888.6	1787.2	1713.7	1461.9	1881.6	3105.7	7739.7	15937.7	16812.0	15455.0
55°	1965.5	1822.1	1692.7	1549.3	1357.0	1678.8	2930.8	7988.1	16549.7	17577.9	16343.4
57.5°	1899.1	1762.7	1622.8	1451.4	1255.6	1468.9	2749.0	8033.5	15402.6	16245.4	15514.5
60°	1811.7	1636.8	1531.9	1308.0	1147.1	1217.1	2178.9	7082.2	11947.1	13566.4	13590.9
62.5°	1713.7	1524.9	1433.9	1171.6	1035.2	1049.2	1776.7	5952.6	9691.3	11230.2	11898.2
65°	1584.3	1402.5	1294.0	1084.2	954.8	909.3	1301.0	4361.3	7362.0	9110.7	9869.7
67.5°	1416.4	1245.1	1108.7	944.3	853.4	779.9	888.3	2455.2	4347.3	6117.0	6347.8
70°	1238.1	1091.2	947.8	811.4	710.0	657.5	650.5	1087.7	2077.5	3291.1	3745.7
72.5°	975.8	870.9	755.4	654.0	587.6	510.6	465.2	451.2	703.0	1339.5	1850.1
75°	699.5	612.0	545.6	479.1	430.2	388.2	353.2	321.8	293.8	335.8	461.7
77.5°	440.7	409.2	356.7	339.2	311.3	300.8	286.8	269.3	248.3	234.3	234.3
80°	297.3	276.3	258.8	255.3	244.8	241.3	244.8	227.3	206.3	188.9	195.9
82.5°	199.4	195.9	192.4	188.9	192.4	195.9	202.8	199.4	181.9	171.4	174.9
85°	118.9	125.9	132.9	139.9	153.9	136.4	111.9	94.4	83.9	76.9	73.4
87.5°	45.5	63.0	56.0	52.5	56.0	52.5	49.0	45.5	38.5	35.0	35.0
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: P530500

CATALOG NUMBER: GALN-SA5D-727-U-SLR-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10709.0	10709.0	10709.0	10709.0	10709.0	10709.0	10709.0	10709.0	10709.0	10709.0
2.5°	11579.9	11649.8	11709.3	11695.3	11572.9	11408.5	11342.1	11002.8	10932.9	10887.4
5°	11737.3	12143.0	12230.4	12178.0	11859.7	11457.5	11065.8	10569.1	10278.9	10268.4
7.5°	11447.0	11947.1	12104.5	12223.4	11800.2	11100.8	10429.3	9684.3	9502.4	9516.4
10°	10709.0	11506.4	11894.7	12017.1	11530.9	10925.9	9995.6	9240.1	8851.9	8844.9
12.5°	10299.8	10925.9	11034.3	11205.7	11062.3	10450.2	9743.8	8897.4	8519.7	8512.7
15°	9936.1	10348.8	10380.3	10621.6	10698.6	10285.9	9810.2	8907.9	8603.6	8572.1
17.5°	10254.4	9967.6	9848.7	9880.2	10107.5	10257.9	10194.9	9502.4	9191.2	9016.3
20°	10467.7	9827.7	9467.5	9502.4	9771.7	10320.8	10768.5	10362.8	9869.7	9890.7
22.5°	11037.8	9848.7	9285.6	9247.1	9673.8	10649.6	11415.5	11450.5	10974.8	10859.4
25°	11891.2	10090.0	9229.6	9219.1	9628.3	11002.8	12171.0	12737.5	12251.4	12038.1
27.5°	12576.7	10467.7	9404.5	9439.5	9771.7	11289.6	12814.5	13566.4	13195.7	12933.4
30°	13178.2	10859.4	9649.3	9488.4	10156.5	11440.0	13090.8	14510.7	14213.4	13996.6
32.5°	13426.5	11415.5	10037.5	9771.7	10474.7	11621.9	13664.3	15427.0	15171.7	14636.6
35°	13846.2	11726.8	10247.4	10226.4	11030.8	12059.0	13933.6	16032.1	15927.2	15451.5
37.5°	14182.0	12041.6	10992.3	10761.5	11793.2	12793.5	14367.3	16868.0	16626.6	16402.8
40°	14440.8	12604.6	11688.3	11992.6	12730.5	13461.5	14766.0	16920.4	17616.4	16965.9
42.5°	14202.9	13108.3	12832.0	13559.4	14258.9	14223.9	14811.5	17326.1	17847.2	17508.0
45°	14143.5	13961.6	14640.1	15301.1	15462.0	14857.0	14486.2	16878.5	17777.3	17626.9
47.5°	14000.1	14801.0	15983.1	17060.3	16815.5	15280.1	14098.0	16798.0	17819.3	17550.0
50°	13951.1	14982.9	16976.4	18025.6	17878.7	15647.4	13916.2	16280.4	17522.0	17497.5
52.5°	13947.6	15357.1	17389.1	18550.2	18641.1	16227.9	14164.5	16542.7	17752.8	17959.2
55°	14105.0	15238.2	17336.6	18259.9	18225.0	15969.1	14192.5	16717.6	18036.1	18238.9
57.5°	13304.1	13650.4	14307.9	15038.8	14850.0	13227.2	12674.6	15455.0	16553.2	16406.3
60°	11489.0	10404.8	9663.3	9628.3	9261.1	8754.0	10373.3	13793.8	13793.8	13650.4
62.5°	10062.0	6830.4	5868.6	5595.8	5858.1	6442.2	10006.1	13416.0	13034.8	12870.4
65°	8799.5	5214.6	4242.3	4165.4	4620.1	5501.4	9047.8	11429.5	10758.0	10212.4
67.5°	5662.3	3819.2	3154.7	3018.3	3567.3	4039.5	6022.5	7029.8	6606.6	6393.2
70°	3651.3	2486.7	1755.7	1647.3	1860.6	2490.1	3847.1	4099.0	3483.4	3340.0
72.5°	1727.7	1073.7	615.5	507.1	570.1	951.3	1521.4	1636.8	1360.5	1245.1
75°	549.1	395.2	251.8	216.8	206.3	244.8	349.7	269.3	195.9	192.4
77.5°	244.8	234.3	199.4	167.9	146.9	122.4	101.4	83.9	87.4	90.9
80°	202.8	185.4	164.4	146.9	122.4	94.4	73.4	56.0	56.0	59.5
82.5°	178.4	160.9	143.4	122.4	104.9	76.9	56.0	38.5	35.0	35.0
85°	76.9	90.9	97.9	104.9	83.9	63.0	38.5	24.5	21.0	21.0
87.5°	31.5	28.0	24.5	21.0	17.5	17.5	14.0	10.5	7.0	7.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)