

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: P452755

Luminaire Tested: **GALN-SA3D-727-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452755
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-SA3D-727-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1200mA 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: 16648 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

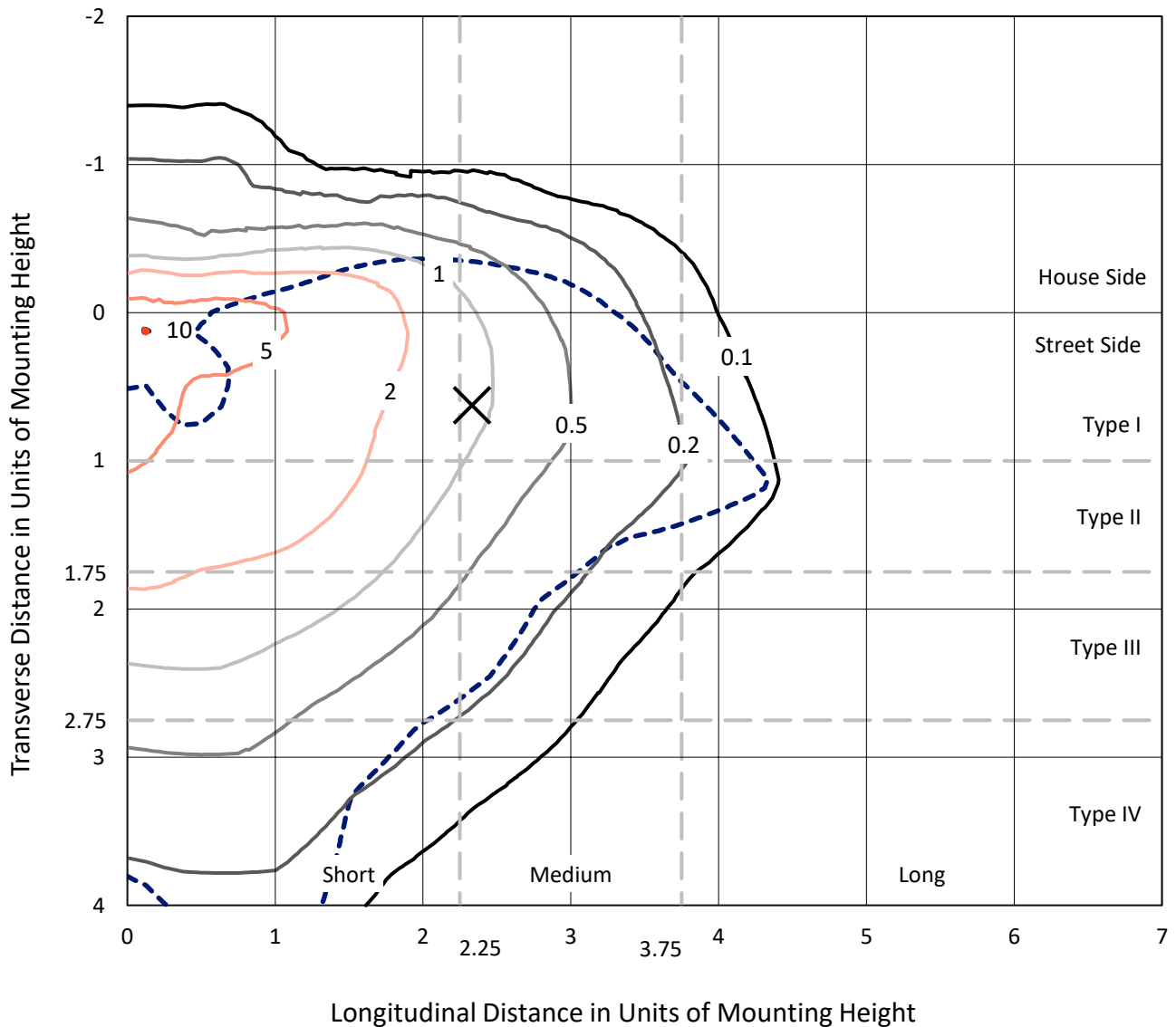
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P452755
 CATALOG NUMBER: GALN-SA3D-727-U-SLL

Iso-Footcandle Lines of Horizontal Illumination

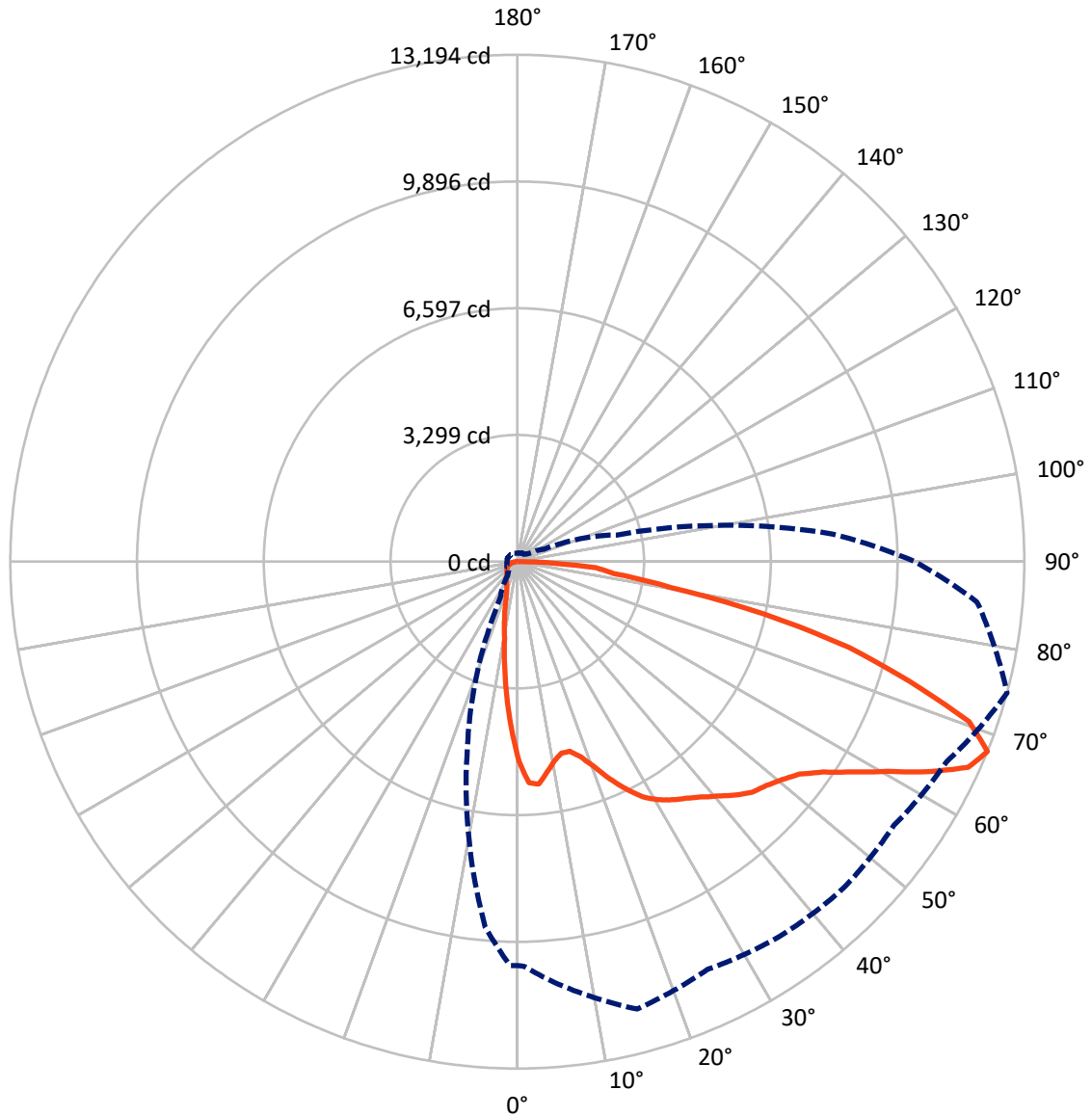
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type III - Medium - N/A

REPORT NUMBER: P452755
CATALOG NUMBER: GALN-SA3D-727-U-SLL

Luminous Intensity Polar Plot



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

REPORT NUMBER: P452755

CATALOG NUMBER: GALN-SA3D-727-U-SLL

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2813.9	0.0	2813.9
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	13834.1	0.0	13834.1
	% Fixture	83.1	0.0	83.1
Total	Lumens	16648.0	0.0	16648.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	394.5	2.4
10°-20°	822.7	4.9
20°-30°	1183.9	7.1
30°-40°	1705.2	10.2
40°-50°	2395.3	14.4
50°-60°	3340.6	20.1
60°-70°	3971.8	23.9
70°-80°	2339.2	14.1
80°-90°	494.6	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°	16648.0	100.0
0°-180°	16648.0	100.0



REPORT NUMBER: P452755

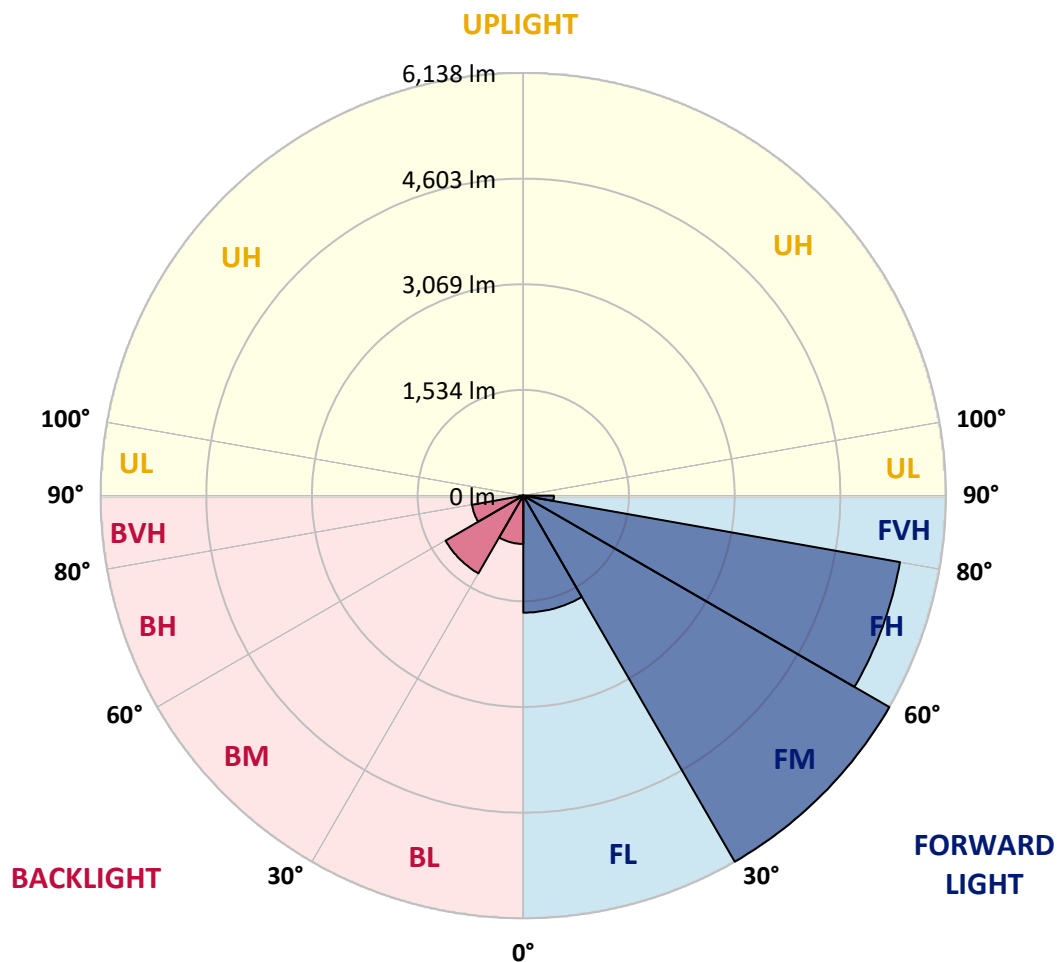
CATALOG NUMBER: GALN-SA3D-727-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1699.3	10.2			
FM	(30°-60°)	6137.5	36.9			
FH	(60°-80°)	5553.8	33.4			G3/7500
FVH	(80°-90°)	443.5	2.7			G3/500
BL	(0°-30°)	701.9	4.2	B2/1000		
BM	(30°-60°)	1303.7	7.8	B2/2500		
BH	(60°-80°)	757.2	4.5	B2/1000		G2/1000
BVH	(80°-90°)	51.2	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium





REPORT NUMBER: P452755

CATALOG NUMBER: GALN-SA3D-727-U-SLL

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5201.2	5201.2	5201.2	5201.2	5201.2	5201.2	5201.2	5201.2	5201.2	5201.2	5201.2
2.5°	5608.0	5615.4	5663.5	5803.3	5899.4	5934.7	5959.2	5913.3	5868.5	5759.6	5595.2
5°	5590.9	5634.7	5759.6	6073.4	6321.1	6427.9	6459.9	6322.2	6094.8	5815.1	5478.8
7.5°	5264.2	5322.9	5515.1	6041.4	6478.0	6727.9	6694.8	6446.0	6036.1	5537.5	5067.8
10°	4876.7	4941.8	5173.5	5809.7	6372.4	6716.1	6716.1	6412.9	5868.5	5276.0	4734.7
12.5°	4569.2	4637.5	4902.3	5571.7	6152.4	6478.0	6532.5	6272.0	5747.8	5110.5	4515.8
15°	4467.8	4534.0	4819.0	5427.6	5919.7	6118.3	6136.4	6051.0	5689.1	5122.2	4506.2
17.5°	4593.8	4679.2	4967.4	5470.3	5706.2	5717.9	5731.8	5799.1	5695.5	5336.8	4700.5
20°	4957.8	5049.6	5350.7	5608.0	5519.4	5397.7	5405.1	5578.1	5771.3	5691.2	5164.9
22.5°	5483.1	5563.1	5871.7	5850.3	5440.4	5189.5	5137.2	5378.4	5883.4	6133.2	5659.2
25°	6050.0	6143.9	6498.3	6210.1	5462.8	5065.6	5032.6	5261.0	5999.8	6546.4	6230.4
27.5°	6699.0	6790.8	7070.6	6573.1	5580.2	5056.0	5016.5	5250.3	6104.4	6928.6	6775.9
30°	7181.6	7265.9	7455.9	6878.4	5724.3	5120.1	5071.0	5334.7	6194.1	7190.1	7307.6
32.5°	7560.6	7648.1	7751.7	7068.4	5914.4	5236.5	5145.7	5488.4	6311.5	7389.8	7701.5
35°	7955.6	8059.1	8051.7	7237.1	6091.6	5371.0	5282.4	5710.5	6496.2	7563.8	8201.1
37.5°	8456.3	8497.9	8444.5	7388.7	6304.0	5613.3	5564.2	6040.3	6758.8	7774.1	8785.1
40°	8964.4	9047.7	8773.3	7572.3	6562.4	6069.2	6063.8	6528.2	7070.6	8020.7	9350.9
42.5°	9400.0	9470.5	9080.8	7732.5	6875.2	6625.4	6665.9	7182.6	7479.4	8306.8	9805.7
45°	9727.8	9790.7	9364.8	7887.2	7287.3	7268.1	7507.2	7884.0	7995.1	8564.1	10072.6
47.5°	10006.4	10067.2	9562.3	8122.1	7796.5	8035.6	8452.0	8615.3	8436.0	8711.4	10371.5
50°	10241.3	10259.4	9697.9	8401.8	8428.5	8976.2	9379.7	9485.4	8871.6	8922.8	10630.9
52.5°	10485.7	10462.2	9931.7	8754.1	9111.8	9868.7	10162.3	10272.2	9289.0	9183.3	11008.8
55°	11033.4	11055.8	10455.8	9198.2	9802.5	10745.2	11131.6	11025.9	9751.2	9662.6	11489.3
57.5°	11695.3	11676.1	11193.5	9893.2	10506.0	11560.8	11849.0	11679.3	10368.3	10321.3	11976.1
60°	11952.6	11978.2	11810.6	10640.5	11199.9	12275.0	12569.6	12305.9	11108.1	11086.8	12343.3
62.5°	11694.2	11838.3	11951.5	11305.6	11791.4	12800.2	13092.7	12791.7	11880.0	12034.8	12600.6
65°	11179.7	11210.6	11596.0	11869.3	12076.4	12886.7	13039.4	12879.2	12524.8	12898.5	12588.9
67.5°	10511.4	10538.0	10989.6	12054.0	11709.2	11904.5	12011.3	11964.3	12325.2	13194.2	12009.2
70°	9875.1	9853.7	10330.9	11583.2	10193.2	9896.4	9985.0	9837.7	10635.2	12471.4	10872.2
72.5°	8636.7	8713.6	9226.0	10274.3	8070.9	7588.3	7781.6	7400.4	8179.8	10681.1	8824.6
75°	6765.2	6783.4	7638.5	8622.8	6088.4	5327.2	5588.8	5429.7	6265.6	8910.0	6093.7
77.5°	4684.5	4644.0	5563.1	6585.9	4341.8	3899.9	3904.1	3828.3	4374.9	6560.3	4140.1
80°	2975.3	2913.4	3482.4	4068.5	2983.9	3192.1	3087.4	3084.2	2848.3	4047.2	2503.5
82.5°	1607.8	1676.1	2200.3	2550.4	2140.5	2467.2	2261.1	2194.9	1954.7	2533.4	1601.4
85°	732.4	796.4	1173.3	1734.8	1625.9	1644.1	1098.5	1296.0	1617.4	2057.2	855.1
87.5°	71.5	91.8	242.3	818.8	555.1	437.7	163.3	314.9	406.7	731.3	68.3
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: P452755

CATALOG NUMBER: GALN-SA3D-727-U-SLL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5201.2	5201.2	5201.2	5201.2	5201.2	5201.2	5201.2	5201.2	5201.2	5201.2	5201.2
2.5°	5527.9	5472.4	5283.4	5127.6	4962.1	4836.1	4671.7	4561.8	4486.0	4371.7	4357.8
5°	5273.8	5138.2	4809.4	4474.2	4184.9	3967.1	3746.1	3543.3	3423.7	3386.4	3338.3
7.5°	4845.7	4617.3	4194.5	3810.2	3478.2	3153.6	2903.8	2726.6	2608.1	2538.7	2455.4
10°	4493.4	4228.7	3714.1	3243.3	2970.0	2768.2	2548.3	2358.3	2212.0	2087.1	2018.8
12.5°	4256.4	3957.5	3378.9	2996.7	2785.3	2570.7	2313.4	2099.9	1884.3	1742.3	1681.4
15°	4184.9	3868.9	3275.3	2873.9	2570.7	2290.0	2001.7	1723.1	1509.6	1375.0	1330.2
17.5°	4360.0	3977.8	3274.3	2710.6	2318.8	1983.6	1614.2	1352.6	1133.8	1033.4	1001.4
20°	4686.7	4187.0	3283.9	2549.4	2045.5	1573.6	1174.3	959.8	855.1	812.4	796.4
22.5°	5142.5	4506.2	3312.7	2390.3	1746.6	1208.5	879.7	770.8	733.4	726.0	722.7
25°	5704.1	4901.2	3409.8	2247.2	1494.6	922.4	735.6	686.5	665.1	657.6	656.6
27.5°	6220.8	5411.5	3527.3	2124.5	1251.2	795.3	665.1	623.5	602.1	601.0	603.2
30°	6687.3	5838.6	3625.5	1986.8	1066.5	706.7	619.2	577.6	557.3	556.2	562.6
32.5°	7090.8	6189.8	3698.1	1851.2	964.0	652.3	577.6	532.7	515.6	512.4	515.6
35°	7522.1	6540.0	3665.0	1745.5	905.3	607.5	546.6	502.8	482.5	472.9	472.9
37.5°	8014.3	6900.8	3608.4	1657.9	878.6	570.1	519.9	477.2	456.9	447.3	446.2
40°	8551.3	7261.7	3530.5	1580.0	851.9	547.7	501.8	456.9	432.4	422.8	420.6
42.5°	9025.3	7570.2	3466.4	1528.8	808.2	551.9	485.7	442.0	411.0	398.2	397.1
45°	9437.4	7880.8	3454.7	1498.9	771.9	545.5	481.5	430.2	393.9	380.1	377.9
47.5°	9759.8	8204.3	3521.9	1481.8	732.4	511.4	509.2	422.8	379.0	364.0	361.9
50°	10152.6	8663.4	3675.7	1446.6	696.1	479.3	538.1	421.7	367.2	348.0	342.7
52.5°	10675.8	9261.2	3883.8	1383.6	643.7	449.4	513.5	421.7	353.4	334.2	327.7
55°	11466.8	10023.5	4087.7	1295.0	570.1	409.9	463.3	408.9	333.1	316.0	311.7
57.5°	11991.0	10580.7	4218.0	1172.2	478.3	381.1	399.3	388.6	312.8	294.7	294.7
60°	12017.7	10730.2	4156.1	1017.4	420.6	354.4	347.0	391.8	294.7	275.4	273.3
62.5°	11710.2	10364.0	3833.7	878.6	389.7	325.6	313.9	343.8	276.5	257.3	254.1
65°	11229.8	9429.9	3274.3	812.4	372.6	300.0	282.9	281.8	257.3	239.1	234.9
67.5°	10346.9	8240.6	2690.3	774.0	364.0	271.2	255.2	249.8	234.9	219.9	217.8
70°	9045.6	6901.9	2157.6	758.0	359.8	241.3	228.5	222.1	209.2	197.5	196.4
72.5°	7037.5	5598.4	1780.7	747.3	357.6	213.5	199.6	191.1	183.6	172.9	172.9
75°	5055.0	4118.7	1359.0	673.6	330.9	183.6	168.7	163.3	152.7	144.1	146.3
77.5°	3186.7	2773.6	894.6	495.4	256.2	147.3	134.5	131.3	122.8	111.0	118.5
80°	2152.2	1950.5	522.0	311.7	161.2	107.8	103.6	102.5	92.9	80.1	81.1
82.5°	1464.7	1437.0	271.2	177.2	92.9	63.0	60.9	63.0	52.3	42.7	42.7
85°	572.2	781.5	128.1	69.4	29.9	9.6	13.9	14.9	8.5	4.3	5.3
87.5°	10.7	80.1	3.2	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: P452755
 CATALOG NUMBER: GALN-SA3D-727-U-SLL

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	5201.2	5201.2	5201.2	5201.2	5201.2	5201.2	5201.2	5201.2	5201.2	5201.2	5201.2
2.5°	4336.5	4326.9	4342.9	4274.6	4288.5	4314.1	4326.9	4334.4	4440.0	4415.5	4482.8
5°	3383.1	3373.5	3435.5	3444.0	3476.0	3469.6	3500.6	3508.1	3546.5	3560.4	3654.3
7.5°	2460.8	2502.4	2572.9	2609.2	2663.6	2680.7	2664.7	2704.2	2624.1	2681.8	2698.8
10°	1977.2	1927.0	1897.1	1980.4	1991.0	2070.0	2038.0	2012.4	2059.4	2061.5	2106.3
12.5°	1646.2	1538.4	1466.8	1490.3	1516.0	1550.1	1555.5	1606.7	1640.9	1672.9	1699.6
15°	1290.7	1253.3	1188.2	1156.2	1192.5	1206.4	1239.5	1282.2	1318.5	1328.1	1364.4
17.5°	990.7	997.1	986.4	967.2	989.6	1000.3	1002.5	1003.5	1013.1	1006.7	1060.1
20°	797.5	819.9	846.6	850.9	858.3	863.7	854.1	817.8	818.8	841.2	858.3
22.5°	721.7	726.0	755.8	765.5	788.9	779.3	751.6	734.5	732.4	737.7	746.2
25°	661.9	668.3	689.7	704.6	722.7	705.7	685.4	669.4	667.2	672.6	681.1
27.5°	608.5	618.1	637.3	652.3	669.4	653.4	634.1	620.3	619.2	618.1	623.5
30°	565.8	576.5	590.4	607.5	619.2	605.3	587.2	579.7	578.6	576.5	578.6
32.5°	523.1	540.2	554.1	562.6	574.4	563.7	549.8	545.5	538.1	531.7	528.5
35°	475.1	493.2	514.6	525.2	537.0	526.3	516.7	498.6	485.7	484.7	486.8
37.5°	447.3	454.8	471.9	490.0	501.8	496.4	478.3	460.1	456.9	456.9	459.1
40°	422.8	426.0	433.4	456.9	478.3	462.3	439.8	434.5	434.5	433.4	434.5
42.5°	398.2	401.4	401.4	419.6	453.7	428.1	411.0	411.0	411.0	412.1	415.3
45°	375.8	376.9	375.8	388.6	420.6	399.3	387.5	390.7	392.9	395.0	397.1
47.5°	356.6	357.6	356.6	367.2	383.3	374.7	368.3	372.6	376.9	380.1	382.2
50°	339.5	338.4	340.6	347.0	354.4	356.6	352.3	358.7	360.8	365.1	370.4
52.5°	324.5	323.5	325.6	328.8	339.5	339.5	339.5	344.8	349.1	353.4	360.8
55°	307.5	308.5	311.7	316.0	329.9	327.7	328.8	333.1	337.4	343.8	348.0
57.5°	291.4	293.6	297.9	304.3	318.1	317.1	318.1	320.3	325.6	328.8	333.1
60°	273.3	277.6	282.9	287.2	301.1	300.0	305.3	309.6	312.8	312.8	314.9
62.5°	255.2	261.6	266.9	270.1	285.0	286.1	293.6	296.8	298.9	296.8	300.0
65°	237.0	246.6	248.7	253.0	268.0	269.0	277.6	285.0	282.9	280.8	286.1
67.5°	218.9	230.6	229.5	234.9	249.8	251.9	259.4	272.2	268.0	265.8	270.1
70°	198.6	207.1	208.2	211.4	231.7	228.5	240.2	251.9	248.7	249.8	249.8
72.5°	176.2	183.6	183.6	190.0	211.4	206.0	215.7	228.5	228.5	227.4	227.4
75°	149.5	153.7	158.0	167.6	190.0	183.6	190.0	201.8	203.9	201.8	201.8
77.5°	120.6	127.0	129.2	142.0	158.0	156.9	163.3	168.7	172.9	170.8	170.8
80°	85.4	91.8	100.4	114.2	123.8	127.0	130.2	134.5	136.6	136.6	138.8
82.5°	48.0	57.6	65.1	79.0	83.3	99.3	98.2	101.4	98.2	86.5	96.1
85°	10.7	20.3	28.8	36.3	41.6	57.6	60.9	68.3	56.6	52.3	52.3
87.5°	0.0	0.0	0.0	0.0	0.0	8.5	17.1	23.5	20.3	17.1	17.1
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: P452755
 CATALOG NUMBER: GALN-SA3D-727-U-SLL

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5201.2	5201.2	5201.2	5201.2	5201.2	5201.2	5201.2	5201.2	5201.2	5201.2
2.5°	4539.3	4632.2	4744.3	4937.5	5073.1	5219.4	5366.7	5523.6	5565.3	5608.0
5°	3679.9	3862.5	3961.8	4221.2	4493.4	4839.3	5122.2	5431.8	5561.0	5590.9
7.5°	2787.4	2911.3	3171.8	3434.4	3771.7	4134.7	4568.2	5050.7	5201.2	5264.2
10°	2209.9	2378.6	2607.0	2888.9	3184.6	3575.3	4064.3	4627.9	4841.5	4876.7
12.5°	1881.1	2069.0	2317.7	2615.6	2895.3	3189.9	3683.1	4265.0	4493.4	4569.2
15°	1504.2	1731.6	2018.8	2332.7	2636.9	2959.3	3458.9	4115.5	4379.2	4467.8
17.5°	1181.8	1365.4	1676.1	2016.7	2377.5	2785.3	3412.0	4187.0	4511.6	4593.8
20°	904.2	1035.5	1297.1	1656.9	2079.6	2613.4	3423.7	4457.1	4845.7	4957.8
22.5°	781.5	848.7	1007.8	1350.5	1823.4	2464.0	3471.8	4827.6	5296.2	5483.1
25°	707.8	743.0	832.7	1056.9	1578.9	2318.8	3581.7	5326.1	5926.1	6050.0
27.5°	644.8	670.4	726.0	887.2	1356.9	2184.3	3709.8	5879.1	6514.3	6699.0
30°	585.0	619.2	671.5	787.9	1214.9	2061.5	3871.0	6327.5	7009.7	7181.6
32.5°	539.1	573.3	621.3	718.5	1094.3	1932.3	3967.1	6721.5	7414.3	7560.6
35°	501.8	530.6	580.8	663.0	1002.5	1834.1	3947.9	7034.3	7806.1	7955.6
37.5°	475.1	499.6	549.8	610.7	933.1	1731.6	3938.3	7447.4	8283.3	8456.3
40°	450.5	476.1	522.0	576.5	863.7	1611.0	3943.6	7857.4	8791.5	8964.4
42.5°	431.3	460.1	497.5	566.9	792.1	1513.8	3943.6	8213.9	9233.5	9400.0
45°	415.3	446.2	482.5	565.8	735.6	1440.2	3916.9	8520.3	9585.8	9727.8
47.5°	401.4	435.6	487.9	546.6	721.7	1386.8	3893.4	8765.9	9872.9	10006.4
50°	391.8	432.4	518.8	524.2	726.0	1370.8	4006.6	9075.5	10126.0	10241.3
52.5°	384.3	433.4	517.8	491.1	718.5	1381.4	4242.5	9559.1	10477.2	10485.7
55°	369.4	432.4	491.1	453.7	687.5	1399.6	4545.7	10261.5	11027.0	11033.4
57.5°	354.4	420.6	455.9	421.7	624.5	1399.6	4910.8	10926.6	11690.0	11695.3
60°	339.5	437.7	400.3	393.9	542.3	1374.0	5296.2	11219.2	11898.1	11952.6
62.5°	324.5	440.9	357.6	369.4	482.5	1312.1	5583.4	10895.7	11616.3	11694.2
65°	307.5	355.5	329.9	343.8	451.6	1208.5	5492.7	10303.2	11086.8	11179.7
67.5°	287.2	301.1	300.0	317.1	440.9	1055.8	5014.4	9553.7	10516.7	10511.4
70°	262.6	270.1	273.3	291.4	420.6	937.3	4178.5	8581.2	9755.5	9875.1
72.5°	237.0	243.4	246.6	262.6	400.3	870.1	3243.3	7241.4	8449.9	8636.7
75°	209.2	213.5	217.8	231.7	379.0	770.8	2310.2	5527.9	6471.6	6765.2
77.5°	180.4	180.4	185.8	199.6	319.2	636.3	1550.1	3877.4	4384.5	4684.5
80°	146.3	147.3	145.2	160.1	234.9	435.6	880.8	2589.9	2917.7	2975.3
82.5°	112.1	108.9	110.0	117.4	175.1	296.8	469.7	1608.8	1639.8	1607.8
85°	70.5	70.5	68.3	76.9	112.1	154.8	256.2	985.4	769.7	732.4
87.5°	28.8	23.5	26.7	31.0	53.4	63.0	100.4	202.8	77.9	71.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)