

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: P456930

Luminaire Tested: **GALN-SA8B-727-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456930
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8B-727-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27596 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

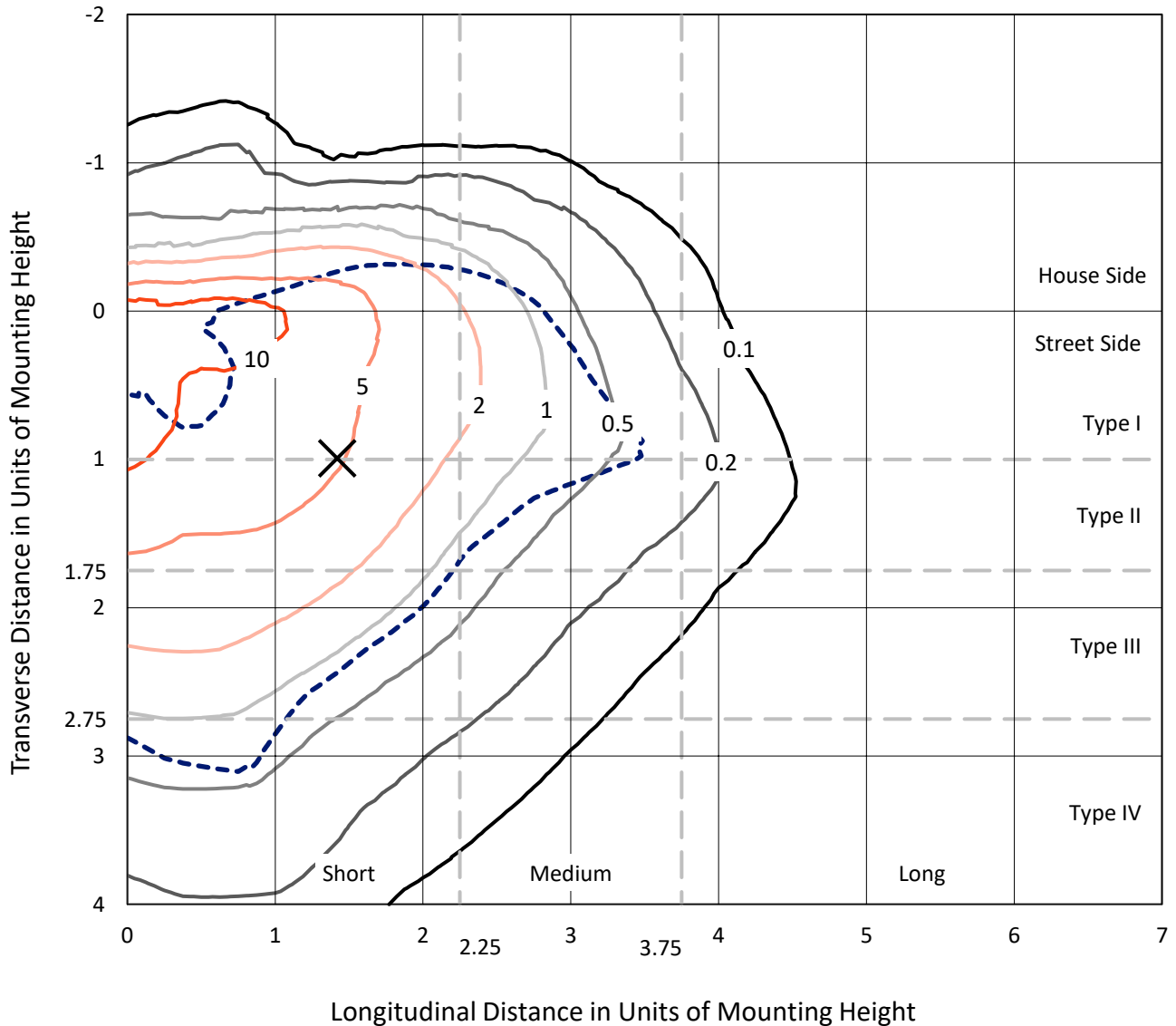
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P456930
 CATALOG NUMBER: GALN-SA8B-727-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

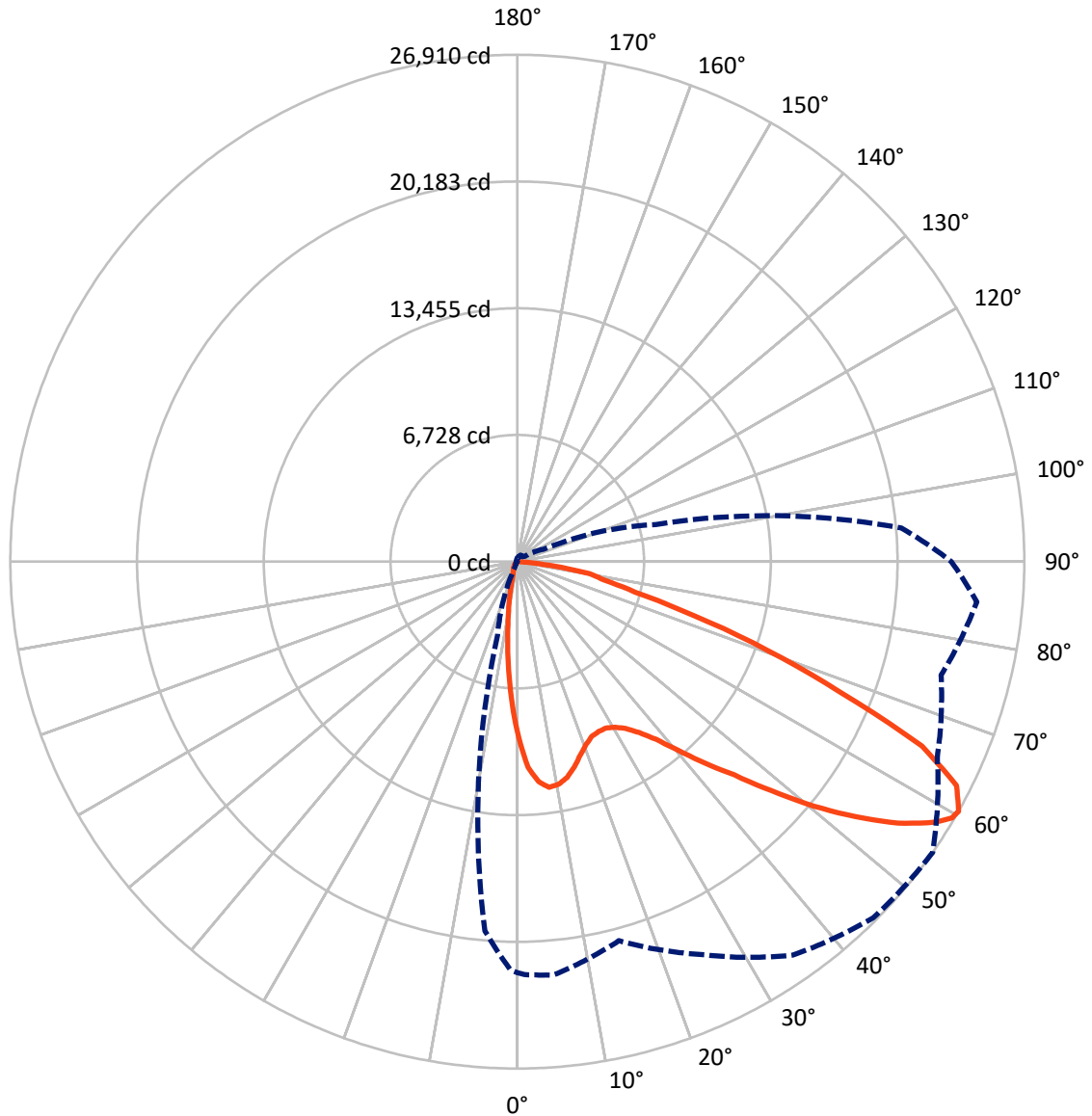
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.3 fc
 Type III - Short - N/A

REPORT NUMBER: P456930
CATALOG NUMBER: GALN-SA8B-727-U-SLL-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

REPORT NUMBER: P456930
 CATALOG NUMBER: GALN-SA8B-727-U-SLL-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4095.5	0.0	4095.5
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	23500.5	0.0	23500.5
	% Fixture	85.2	0.0	85.2
Total	Lumens	27596.0	0.0	27596.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	691.9	2.5
10°-20°	1362.6	4.9
20°-30°	2016.9	7.3
30°-40°	3006.3	10.9
40°-50°	4402.8	16.0
50°-60°	6356.3	23.0
60°-70°	6686.5	24.2
70°-80°	2750.6	10.0
80°-90°	322.1	1.2
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°	27596.0	100.0
0°-180°	27596.0	100.0

Coefficient of Utilization



REPORT NUMBER: P456930

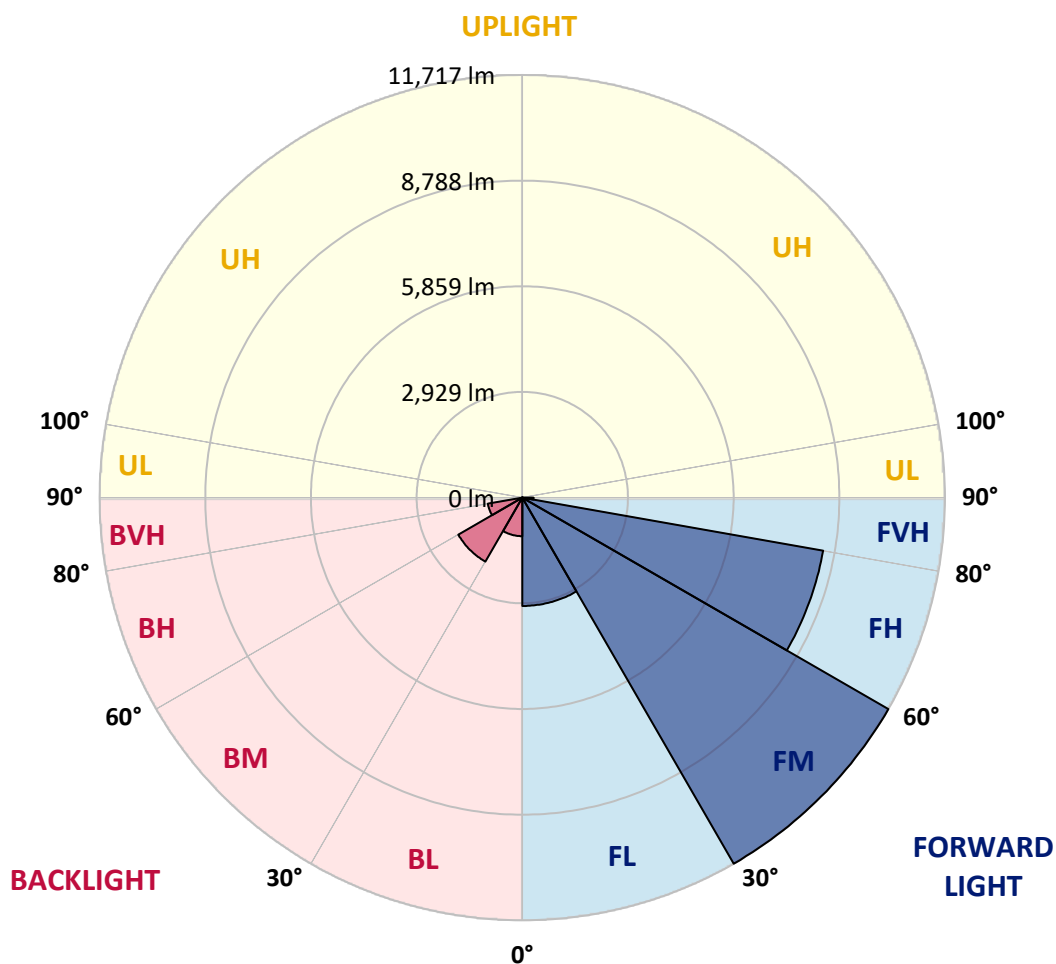
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3002.8	10.9			
FM	(30°-60°)	11717.3	42.5			
FH	(60°-80°)	8467.7	30.7			G4/12000
FVH	(80°-90°)	312.7	1.1			G3/500
BL	(0°-30°)	1068.5	3.9	B3/2500		
BM	(30°-60°)	2048.1	7.4	B2/2500		
BH	(60°-80°)	969.4	3.5	B2/1000		G2/1000
BVH	(80°-90°)	9.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





REPORT NUMBER: P456930

CATALOG NUMBER: GALN-SA8B-727-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9343.9	9343.9	9343.9	9343.9	9343.9	9343.9	9343.9	9343.9	9343.9	9343.9	9343.9
2.5°	10208.4	10191.4	10342.3	10588.7	10837.2	10966.7	10941.3	10930.6	10724.6	10573.8	10257.3
5°	10187.2	10274.3	10544.0	11211.0	11716.6	11960.8	12033.0	11729.3	11327.8	10745.8	10027.9
7.5°	9577.6	9685.9	10125.6	11168.5	12067.0	12598.1	12578.9	12092.5	11264.1	10363.5	9339.7
10°	8821.4	8948.8	9465.0	10731.0	11897.1	12598.1	12636.3	12020.3	10990.1	9834.6	8757.7
12.5°	8288.3	8439.1	9010.4	10323.1	11459.5	12149.9	12194.5	11748.4	10784.1	9630.7	8441.2
15°	8107.7	8250.0	8829.9	10117.1	10994.4	11366.1	11355.5	11308.7	10703.4	9679.5	8458.2
17.5°	8417.8	8534.6	9188.9	10210.6	10558.9	10520.7	10575.9	10801.1	10720.3	10089.5	8993.5
20°	9218.6	9337.6	10040.6	10497.3	10225.4	9983.3	10008.8	10384.7	10877.5	10860.5	9830.3
22.5°	10321.0	10522.8	11160.0	11053.8	10180.8	9649.8	9596.7	10085.2	11145.2	11748.4	10960.4
25°	11716.6	11920.5	12417.5	11941.7	10399.6	9571.2	9522.4	9993.9	11470.2	12615.0	12232.7
27.5°	12889.1	13044.1	13539.0	12806.2	10722.5	9605.2	9524.5	10006.6	11733.5	13352.1	13305.4
30°	13827.9	13942.6	14233.6	13209.8	11000.7	9753.9	9660.4	10193.6	11850.4	13711.1	14174.1
32.5°	14584.1	14777.4	14868.7	13641.0	11400.1	10034.3	9875.0	10552.5	12135.0	14155.0	15085.4
35°	15448.6	15671.6	15554.8	14053.1	11926.8	10471.8	10276.4	11134.5	12566.2	14565.0	16143.2
37.5°	16544.6	16801.7	16345.0	14486.4	12483.4	11130.3	11039.0	11952.3	13220.4	15151.2	17277.5
40°	17678.9	17827.6	17111.8	15013.2	13167.3	12088.3	12175.4	13167.3	14076.4	15854.3	18483.9
42.5°	18564.7	18704.9	17899.8	15455.0	13866.1	13224.7	13587.9	14632.9	15057.8	16574.4	19384.6
45°	19242.2	19361.2	18445.7	15937.1	14809.2	14870.8	15556.9	16143.2	16041.2	17014.1	20079.1
47.5°	19769.0	19871.0	18866.3	16455.4	16221.8	16884.5	17933.8	18182.3	17060.8	17489.9	20707.9
50°	19985.7	20015.4	18998.0	17116.0	17825.5	19450.4	20544.3	20393.5	18229.1	18018.8	21377.0
52.5°	20268.2	20261.8	19373.9	17744.8	19333.6	21744.4	22836.2	22494.3	19550.2	18811.1	22128.9
55°	21009.5	21018.0	20179.0	18636.9	20618.7	23596.7	24764.9	24516.4	20943.7	20149.2	23006.2
57.5°	21910.1	21942.0	21323.9	19679.8	21846.4	24939.1	26205.1	26109.5	22827.7	21638.2	23834.6
59°	22026.9	22090.7	21865.5	20414.8	22575.0	25351.2	26697.9	26791.3	23836.7	22619.6	24282.7
60°	21814.5	21920.7	22022.7	20831.1	23001.9	25499.9	26727.6	26910.3	24595.0	23286.5	24486.7
62.5°	20888.4	21056.2	21568.1	22111.9	23535.1	25036.8	25778.1	26160.5	25533.8	25038.9	24505.8
65°	19675.6	19762.7	20501.8	22339.2	22500.6	22874.5	23103.9	23594.5	24405.9	25714.4	23628.5
67.5°	17687.4	17944.4	18849.3	21020.1	19448.3	19006.5	18949.1	18460.6	20567.7	24104.3	21466.2
70°	14611.7	14726.4	15841.6	17232.8	14677.6	13997.8	14269.7	14087.1	15943.5	20750.4	17277.5
72.5°	11049.6	11308.7	12398.4	13736.6	9987.5	9106.0	9855.8	9787.9	11975.7	16676.3	11869.5
75°	7861.3	8029.1	9418.3	10750.1	6994.7	5926.2	6196.0	6448.8	8360.5	13167.3	7013.8
77.5°	5401.6	5546.0	6589.0	7109.4	5102.1	4887.6	4471.2	4715.5	5478.1	7812.5	3817.0
80°	3258.4	3252.0	3938.1	4065.5	3553.6	4127.1	3462.3	3887.1	3311.5	3343.3	1478.4
82.5°	2115.6	2094.4	2408.7	2625.4	1977.5	2079.5	1395.5	2011.5	2158.1	932.5	467.3
85°	947.3	987.7	1157.6	1527.2	866.6	460.9	284.6	618.1	919.7	469.4	0.0
87.5°	97.7	76.5	203.9	371.7	118.9	12.7	42.5	21.2	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: P456930

CATALOG NUMBER: GALN-SA8B-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9343.9	9343.9	9343.9	9343.9	9343.9	9343.9	9343.9	9343.9	9343.9	9343.9	9343.9
2.5°	10110.7	9987.5	9620.1	9276.0	8980.7	8619.6	8386.0	8018.5	7795.5	7727.5	7738.1
5°	9705.0	9350.3	8651.5	8092.8	7470.5	7115.7	6576.2	6057.9	5777.6	5673.5	5626.7
7.5°	8855.4	8475.2	7631.9	6754.6	6087.7	5465.3	5063.9	4607.2	4294.9	4037.9	3993.3
10°	8224.5	7725.4	6680.3	5737.2	5210.4	4743.1	4341.7	3885.0	3517.5	3224.4	3143.7
12.5°	7846.4	7287.8	6121.7	5331.5	4832.3	4352.3	3829.8	3300.9	2924.9	2608.4	2461.8
15°	7778.5	7130.6	5964.5	5040.5	4424.5	3844.6	3150.0	2578.7	2192.1	1892.6	1801.2
17.5°	8188.4	7413.1	5941.1	4736.7	3891.4	3069.3	2347.1	1873.5	1438.0	1270.2	1204.4
20°	8919.1	7912.3	5939.0	4384.1	3343.3	2364.1	1648.3	1221.4	1045.1	964.3	926.1
22.5°	9915.3	8592.0	6051.6	4080.4	2774.1	1743.9	1176.8	972.8	870.9	805.0	790.2
25°	11132.4	9598.8	6327.7	3874.4	2338.6	1367.9	970.7	832.6	747.7	717.9	705.2
27.5°	12213.6	10563.2	6631.4	3662.0	2026.4	1210.7	900.6	762.6	694.6	671.2	652.1
30°	13146.1	11438.3	6778.0	3381.6	1775.8	1108.8	913.4	815.7	726.4	656.3	624.5
32.5°	13923.5	12109.5	6873.6	3126.7	1563.3	907.0	722.2	630.9	590.5	565.0	543.8
35°	14896.3	12836.0	6816.2	2982.2	1455.0	826.3	658.5	543.8	475.8	424.8	403.6
37.5°	15915.9	13562.4	6716.4	2863.3	1406.2	766.8	626.6	516.2	441.8	388.7	361.1
40°	16971.6	14235.7	6599.6	2752.8	1361.6	728.6	607.5	492.8	418.4	361.1	331.4
42.5°	17938.1	14892.1	6552.9	2680.6	1289.3	734.9	592.6	482.2	395.1	335.6	310.1
45°	18719.7	15514.4	6616.6	2642.4	1210.7	724.3	596.9	469.4	376.0	318.6	293.1
47.5°	19554.5	16393.8	6822.6	2604.2	1134.3	673.3	628.7	467.3	367.5	308.0	280.4
50°	20525.2	17519.6	7294.2	2510.7	1040.8	618.1	669.1	465.2	356.8	295.3	267.6
52.5°	21818.8	18798.3	7780.6	2347.1	904.9	565.0	639.4	458.8	335.6	280.4	252.8
55°	22980.7	20145.0	8192.7	2153.8	732.8	488.5	575.6	431.2	299.5	254.9	229.4
57.5°	23460.7	20905.4	8179.9	1886.2	586.3	429.1	473.7	395.1	261.3	225.2	203.9
59°	23284.4	20809.8	7905.9	1688.7	535.3	397.2	393.0	390.8	244.3	203.9	186.9
60°	23035.9	20461.5	7610.7	1591.0	503.4	376.0	361.1	386.6	229.4	191.2	174.2
62.5°	22084.3	19017.1	6631.4	1425.3	460.9	318.6	288.9	327.1	203.9	165.7	150.8
65°	20705.8	16797.4	5614.0	1378.5	448.2	263.4	240.0	233.7	174.2	140.2	127.4
67.5°	18016.6	14214.5	4547.7	1346.7	452.4	220.9	210.3	176.3	144.4	116.8	108.3
70°	14424.8	11083.6	3723.6	1310.6	456.7	180.5	176.3	140.2	116.8	97.7	89.2
72.5°	8764.0	6569.9	2931.3	1138.5	443.9	144.4	157.2	106.2	85.0	70.1	65.8
75°	5418.6	4496.7	1818.2	885.8	293.1	106.2	110.5	65.8	57.4	44.6	44.6
77.5°	3139.4	2839.9	650.0	318.6	129.6	63.7	48.9	34.0	31.9	19.1	19.1
80°	1302.1	1042.9	225.2	108.3	70.1	29.7	10.6	2.1	0.0	0.0	0.0
82.5°	380.2	337.7	61.6	48.9	21.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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



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 CATALOG NUMBER: GALN-SA8B-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	9343.9	9343.9	9343.9	9343.9	9343.9	9343.9	9343.9	9343.9	9343.9	9343.9	9343.9
2.5°	7557.6	7487.5	7455.6	7563.9	7464.1	7591.5	7493.8	7536.3	7661.6	7716.9	7859.2
5°	5656.5	5584.3	5550.3	5713.8	5705.3	5786.1	5777.6	5851.9	5915.6	5773.3	5919.9
7.5°	3940.2	3891.4	3972.1	4099.5	4235.5	4190.9	4190.9	4091.0	4125.0	4103.8	4097.4
10°	2997.1	2829.3	2786.8	2782.6	2833.6	2844.2	2786.8	2648.8	2699.7	2714.6	2803.8
12.5°	2357.8	2228.2	2030.6	1941.4	1918.1	1937.2	1748.1	1627.1	1684.4	1650.4	1737.5
15°	1690.8	1584.6	1467.8	1367.9	1340.3	1302.1	1096.0	951.6	934.6	941.0	955.8
17.5°	1206.5	1134.3	1134.3	1028.1	970.7	856.0	751.9	688.2	681.8	688.2	698.8
20°	890.0	851.8	847.5	819.9	756.2	679.7	607.5	594.7	590.5	601.1	605.4
22.5°	766.8	726.4	692.5	690.3	630.9	567.1	533.1	516.2	518.3	522.5	533.1
25°	686.1	643.6	607.5	586.3	543.8	499.2	467.3	458.8	458.8	465.2	467.3
27.5°	628.7	575.6	543.8	514.0	475.8	437.6	410.0	403.6	399.3	403.6	414.2
30°	588.4	535.3	494.9	450.3	420.6	384.5	361.1	352.6	350.5	352.6	361.1
32.5°	503.4	471.6	439.7	399.3	363.2	339.9	314.4	299.5	299.5	303.7	312.2
35°	380.2	363.2	361.1	350.5	320.7	295.3	265.5	250.6	250.6	259.1	263.4
37.5°	335.6	303.7	299.5	295.3	282.5	248.5	220.9	208.2	206.0	212.4	220.9
40°	305.9	269.8	250.6	246.4	248.5	210.3	180.5	167.8	167.8	169.9	178.4
42.5°	282.5	240.0	206.0	201.8	210.3	176.3	146.6	133.8	133.8	133.8	144.4
45°	263.4	214.5	174.2	152.9	165.7	144.4	118.9	106.2	102.0	106.2	110.5
47.5°	250.6	195.4	152.9	123.2	123.2	114.7	95.6	80.7	76.5	78.6	85.0
50°	240.0	178.4	129.6	99.8	89.2	91.3	72.2	61.6	57.4	57.4	63.7
52.5°	223.0	161.4	112.6	85.0	68.0	61.6	53.1	44.6	42.5	44.6	48.9
55°	201.8	146.6	97.7	70.1	53.1	42.5	38.2	31.9	29.7	31.9	38.2
57.5°	178.4	123.2	78.6	55.2	36.1	27.6	25.5	21.2	17.0	19.1	23.4
59°	163.6	110.5	68.0	44.6	27.6	19.1	19.1	14.9	10.6	12.7	19.1
60°	157.2	102.0	57.4	38.2	23.4	14.9	14.9	10.6	6.4	8.5	14.9
62.5°	133.8	85.0	44.6	23.4	10.6	2.1	6.4	2.1	0.0	2.1	6.4
65°	112.6	68.0	29.7	10.6	0.0	0.0	0.0	0.0	0.0	0.0	2.1
67.5°	93.5	51.0	14.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	74.3	34.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	51.0	19.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	31.9	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	12.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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: P456930

CATALOG NUMBER: GALN-SA8B-727-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	9343.9	9343.9	9343.9	9343.9	9343.9	9343.9	9343.9	9343.9	9343.9	9343.9
2.5°	7867.7	8171.4	8358.3	8710.9	9072.0	9350.3	9698.7	10010.9	10140.5	10208.4
5°	6068.6	6491.3	6850.2	7387.6	7886.8	8494.3	9110.3	9836.7	10115.0	10187.2
7.5°	4258.8	4690.0	5066.0	5688.3	6399.9	7213.5	8135.3	9057.2	9462.9	9577.6
10°	3075.7	3536.6	3995.4	4617.8	5282.6	6164.1	7124.2	8264.9	8732.2	8821.4
12.5°	1941.4	2436.3	3181.9	3950.8	4653.9	5363.4	6368.1	7608.5	8124.7	8288.3
15°	1125.8	1495.4	2058.3	3060.8	3955.1	4893.9	5990.0	7362.1	7939.9	8107.7
17.5°	754.1	881.5	1268.1	2034.9	3215.9	4460.6	5894.4	7563.9	8203.3	8417.8
20°	635.1	692.5	828.4	1240.5	2476.7	4074.0	5919.9	8111.9	8951.0	9218.6
22.5°	558.6	611.7	698.8	892.1	1729.0	3594.0	6040.9	8895.7	9979.0	10321.0
25°	492.8	545.9	622.4	739.2	1161.9	3039.6	6306.5	10042.8	11340.6	11716.6
27.5°	437.6	486.4	552.3	652.1	894.2	2421.5	6542.2	11160.0	12583.2	12889.1
30°	386.6	426.9	490.7	567.1	743.4	1867.1	6661.2	12137.1	13488.1	13827.9
32.5°	335.6	373.8	435.4	497.0	611.7	1423.1	6578.3	12855.1	14367.4	14584.1
35°	286.8	327.1	378.1	435.4	528.9	1149.1	6164.1	13662.2	15278.7	15448.6
37.5°	246.4	280.4	333.5	378.1	477.9	919.7	5662.9	14388.7	16300.4	16544.6
40°	208.2	242.1	295.3	335.6	439.7	724.3	5210.4	15195.8	17377.3	17678.9
42.5°	169.9	210.3	257.0	322.9	378.1	552.3	4662.4	15850.1	18186.6	18564.7
45°	135.9	180.5	231.5	320.7	329.2	420.6	4133.5	16359.8	18902.4	19242.2
47.5°	108.3	152.9	223.0	299.5	269.8	333.5	3831.9	16893.0	19497.1	19769.0
50°	87.1	127.4	233.7	263.4	225.2	282.5	3823.4	17487.7	19805.1	19985.7
52.5°	70.1	104.1	197.5	201.8	191.2	248.5	4052.8	18156.8	20119.5	20268.2
55°	59.5	87.1	129.6	148.7	172.1	225.2	4224.8	19187.0	20869.3	21009.5
57.5°	46.7	74.3	99.8	118.9	152.9	206.0	4248.2	19981.4	21818.8	21910.1
59°	40.4	63.7	89.2	106.2	140.2	193.3	4152.6	20030.3	21880.4	22026.9
60°	34.0	57.4	78.6	99.8	129.6	182.7	4048.5	19675.6	21651.0	21814.5
62.5°	25.5	44.6	57.4	80.7	106.2	157.2	3555.7	18437.2	20773.7	20888.4
65°	17.0	31.9	42.5	59.5	82.8	135.9	2897.3	16831.4	19418.5	19675.6
67.5°	10.6	23.4	34.0	44.6	68.0	114.7	2064.6	14433.3	17521.7	17687.4
70°	6.4	14.9	25.5	36.1	53.1	91.3	1225.6	11408.6	14577.7	14611.7
72.5°	4.2	10.6	17.0	25.5	42.5	82.8	594.7	7436.5	10643.9	11049.6
75°	2.1	6.4	10.6	19.1	34.0	68.0	284.6	4968.3	7744.5	7861.3
77.5°	0.0	2.1	6.4	12.7	25.5	53.1	165.7	3262.6	5280.5	5401.6
80°	0.0	0.0	4.2	10.6	19.1	34.0	99.8	1924.4	3198.9	3258.4
82.5°	0.0	0.0	2.1	8.5	12.7	25.5	51.0	845.4	2094.4	2115.6
85°	0.0	0.0	2.1	8.5	10.6	17.0	19.1	114.7	930.4	947.3
87.5°	0.0	0.0	2.1	10.6	10.6	10.6	10.6	6.4	78.6	97.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)