

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: P453595

Luminaire Tested: **GALN-SA4C-827-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453595
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-SA4C-827-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1050mA 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: 14683 lumens
Efficiency: N/A
Efficacy: 68.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

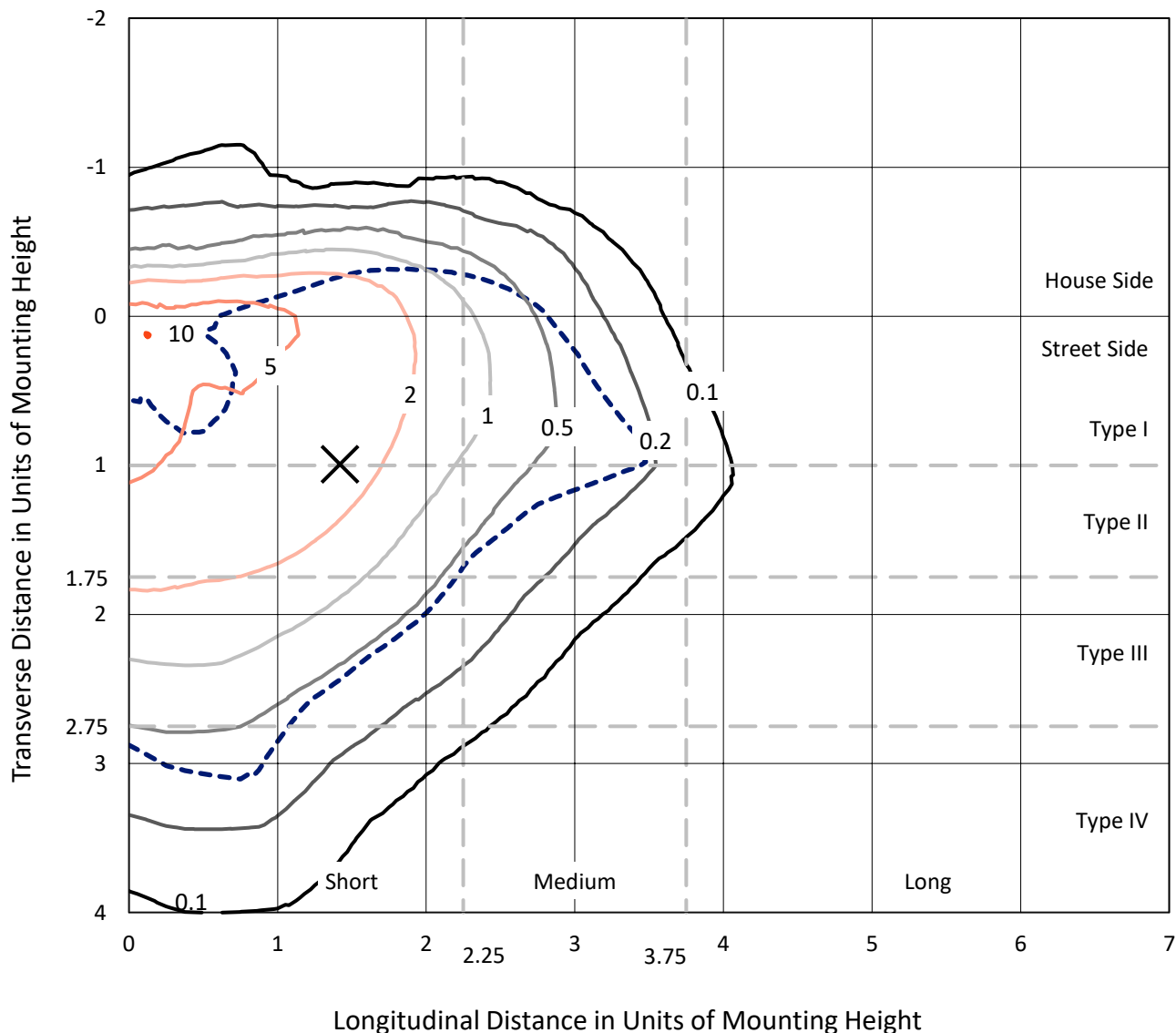
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

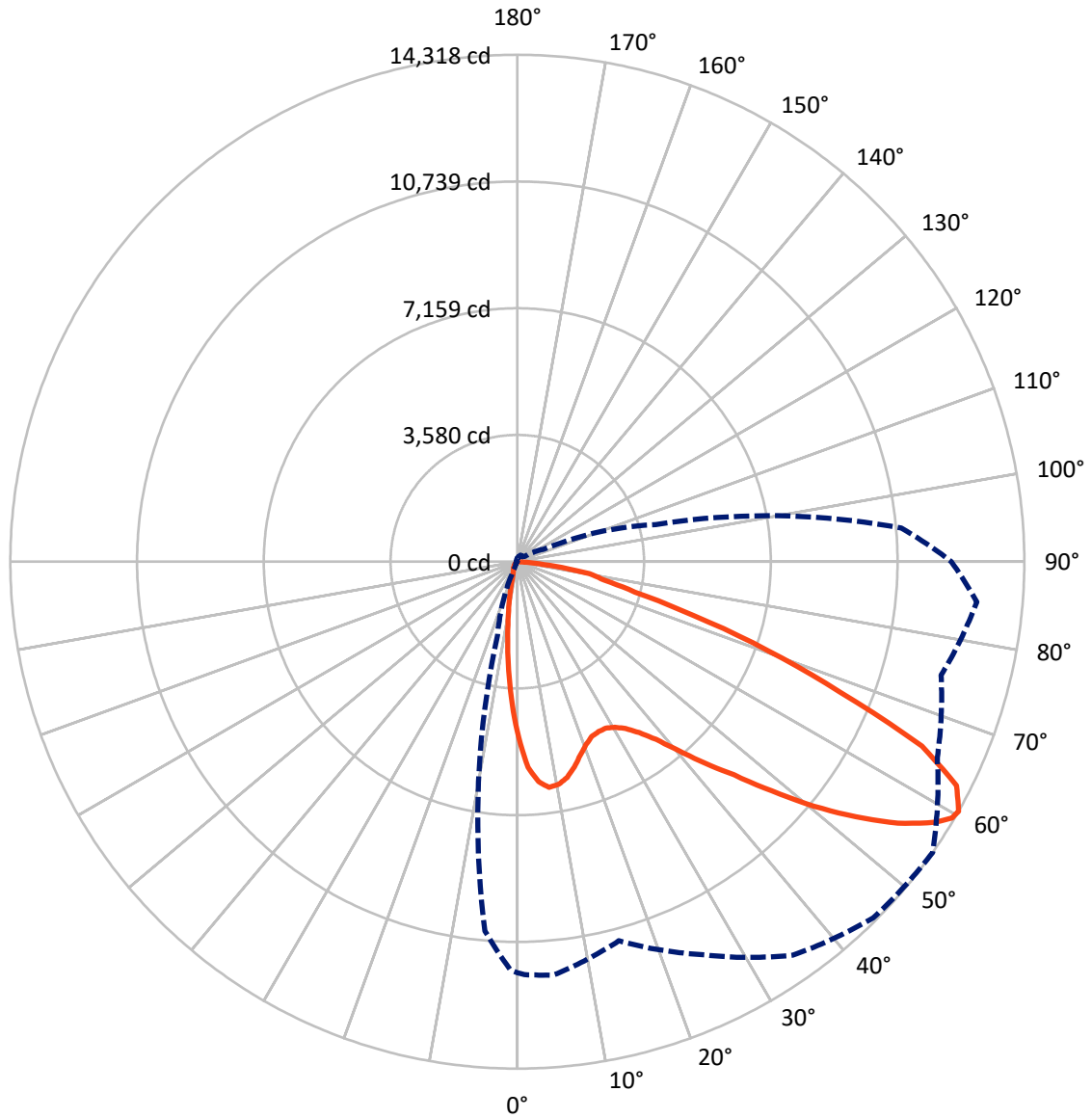
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2179.1	0.0	2179.1
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	12503.9	0.0	12503.9
	% Fixture	85.2	0.0	85.2
Total	Lumens	14683.0	0.0	14683.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.2	2.5
10°-20°	725.0	4.9
20°-30°	1073.1	7.3
30°-40°	1599.6	10.9
40°-50°	2342.6	16.0
50°-60°	3382.0	23.0
60°-70°	3557.7	24.2
70°-80°	1463.5	10.0
80°-90°	171.4	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°	14683.0	100.0
0°-180°	14683.0	100.0

Coefficient of Utilization



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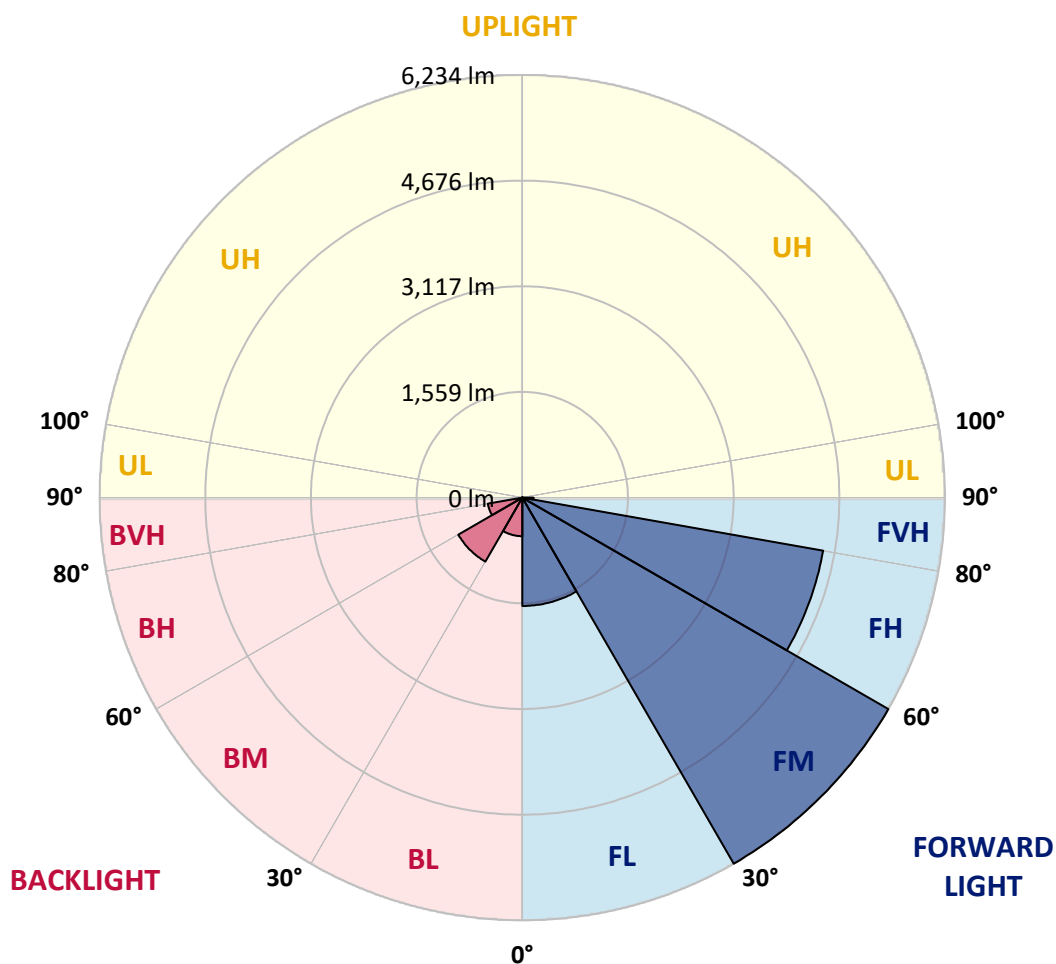
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1597.7	10.9			
FM	(30°-60°)	6234.4	42.5			
FH	(60°-80°)	4505.4	30.7			G2/5000
FVH	(80°-90°)	166.4	1.1			G2/225
BL	(0°-30°)	568.5	3.9	B2/1000		
BM	(30°-60°)	1089.7	7.4	B2/2500		
BH	(60°-80°)	515.8	3.5	B2/1000		G2/1000
BVH	(80°-90°)	5.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4971.6	4971.6	4971.6	4971.6	4971.6	4971.6	4971.6	4971.6	4971.6	4971.6	4971.6
2.5°	5431.6	5422.6	5502.8	5633.9	5766.1	5835.1	5821.5	5815.9	5706.2	5626.0	5457.6
5°	5420.3	5466.6	5610.2	5965.0	6234.0	6364.0	6402.4	6240.8	6027.2	5717.5	5335.5
7.5°	5095.9	5153.6	5387.5	5942.4	6420.5	6703.0	6692.9	6434.1	5993.3	5514.1	4969.4
10°	4693.6	4761.4	5036.0	5709.6	6330.1	6703.0	6723.4	6395.6	5847.5	5232.7	4659.7
12.5°	4409.9	4490.2	4794.2	5492.6	6097.3	6464.6	6488.3	6251.0	5737.9	5124.2	4491.3
15°	4313.9	4389.6	4698.1	5383.0	5849.8	6047.5	6041.9	6017.0	5694.9	5150.2	4500.3
17.5°	4478.9	4541.0	4889.1	5432.7	5618.1	5597.7	5627.1	5746.9	5704.0	5368.3	4785.1
20°	4904.9	4968.2	5342.3	5585.3	5440.6	5311.8	5325.4	5525.4	5787.6	5778.6	5230.4
22.5°	5491.5	5598.9	5937.9	5881.4	5416.9	5134.4	5106.1	5366.1	5930.0	6251.0	5831.7
25°	6234.0	6342.5	6607.0	6353.8	5533.3	5092.6	5066.6	5317.5	6102.9	6712.1	6508.7
27.5°	6857.9	6940.4	7203.7	6813.8	5705.1	5110.6	5067.7	5324.2	6243.1	7104.3	7079.4
30°	7357.4	7418.4	7573.3	7028.5	5853.2	5189.7	5140.0	5423.7	6305.2	7295.3	7541.6
32.5°	7759.8	7862.6	7911.2	7258.0	6065.6	5338.9	5254.2	5614.7	6456.7	7531.5	8026.5
35°	8219.7	8338.4	8276.2	7477.2	6345.9	5571.7	5467.8	5924.4	6686.1	7749.6	8589.3
37.5°	8802.9	8939.7	8696.7	7707.8	6642.0	5922.1	5873.5	6359.5	7034.2	8061.5	9192.8
40°	9406.4	9485.5	9104.7	7988.1	7005.9	6431.8	6478.1	7005.9	7489.6	8435.6	9834.7
42.5°	9877.7	9952.3	9524.0	8223.1	7377.8	7036.4	7229.7	7785.7	8011.8	8818.7	10313.9
45°	10238.2	10301.5	9814.4	8479.7	7879.6	7912.3	8277.4	8589.3	8535.1	9052.7	10683.5
47.5°	10518.5	10572.8	10038.2	8755.4	8631.1	8983.7	9542.0	9674.3	9077.5	9305.8	11018.0
50°	10633.8	10649.6	10108.3	9106.9	9484.4	10349.0	10931.0	10850.8	9699.1	9587.2	11374.0
52.5°	10784.1	10780.7	10308.3	9441.5	10286.8	11569.6	12150.5	11968.5	10402.1	10008.8	11774.1
55°	11178.5	11183.0	10736.6	9916.1	10970.6	12555.1	13176.7	13044.4	11143.5	10720.8	12240.9
57.5°	11657.7	11674.7	11345.8	10471.0	11623.8	13269.3	13942.9	13892.1	12146.0	11513.1	12681.7
59°	11719.9	11753.8	11634.0	10862.1	12011.5	13488.6	14205.1	14254.8	12682.8	12035.2	12920.1
60°	11606.9	11663.4	11717.6	11083.6	12238.6	13567.7	14220.9	14318.1	13086.3	12390.1	13028.6
62.5°	11114.1	11203.4	11475.8	11765.1	12522.3	13321.3	13715.8	13919.2	13585.8	13322.5	13038.8
65°	10468.8	10515.1	10908.4	11886.0	11971.9	12170.8	12292.9	12553.9	12985.7	13681.9	12572.0
67.5°	9410.9	9547.7	10029.1	11184.2	10347.8	10112.8	10082.3	9822.3	10943.4	12825.2	11421.5
70°	7774.4	7835.5	8428.8	9169.1	7809.5	7447.8	7592.5	7495.3	8483.1	11040.6	9192.8
72.5°	5879.2	6017.0	6596.8	7308.8	5314.1	4845.0	5244.0	5207.8	6371.9	8873.0	6315.4
75°	4182.8	4272.0	5011.2	5719.8	3721.7	3153.2	3296.7	3431.2	4448.4	7005.9	3731.8
77.5°	2874.0	2950.9	3505.8	3782.7	2714.7	2600.5	2379.0	2509.0	2914.7	4156.8	2030.9
80°	1733.7	1730.3	2095.3	2163.1	1890.8	2195.9	1842.2	2068.2	1761.9	1778.9	786.6
82.5°	1125.7	1114.3	1281.6	1396.9	1052.2	1106.4	742.5	1070.3	1148.3	496.1	248.6
85°	504.1	525.5	615.9	812.6	461.1	245.2	151.4	328.9	489.4	249.8	0.0
87.5°	52.0	40.7	108.5	197.8	63.3	6.8	22.6	11.3	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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4971.6	4971.6	4971.6	4971.6	4971.6	4971.6	4971.6	4971.6	4971.6	4971.6	4971.6
2.5°	5379.6	5314.1	5118.5	4935.5	4778.4	4586.2	4461.9	4266.4	4147.7	4111.6	4117.2
5°	5163.8	4975.0	4603.2	4306.0	3974.8	3786.1	3499.0	3223.2	3074.1	3018.7	2993.8
7.5°	4711.7	4509.4	4060.7	3593.9	3239.1	2907.9	2694.3	2451.3	2285.2	2148.5	2124.7
10°	4376.0	4110.4	3554.4	3052.6	2772.3	2523.7	2310.1	2067.1	1871.6	1715.6	1672.7
12.5°	4174.9	3877.6	3257.2	2836.7	2571.1	2315.7	2037.7	1756.3	1556.2	1387.9	1309.9
15°	4138.7	3794.0	3173.5	2681.9	2354.1	2045.6	1676.0	1372.0	1166.3	1007.0	958.4
17.5°	4356.8	3944.3	3161.1	2520.3	2070.5	1633.1	1248.8	996.8	765.1	675.8	640.8
20°	4745.6	4209.9	3160.0	2332.7	1778.9	1257.9	877.0	649.8	556.0	513.1	492.8
22.5°	5275.6	4571.5	3219.9	2171.1	1476.0	927.9	626.1	517.6	463.4	428.3	420.4
25°	5923.2	5107.2	3366.8	2061.4	1244.3	727.8	516.5	443.0	397.8	382.0	375.2
27.5°	6498.5	5620.3	3528.4	1948.4	1078.2	644.2	479.2	405.7	369.6	357.1	347.0
30°	6994.6	6086.0	3606.4	1799.2	944.8	589.9	486.0	434.0	386.5	349.2	332.3
32.5°	7408.3	6443.1	3657.2	1663.6	831.8	482.6	384.3	335.7	314.2	300.6	289.3
35°	7925.9	6829.6	3626.7	1586.8	774.2	439.6	350.4	289.3	253.2	226.0	214.7
37.5°	8468.4	7216.1	3573.6	1523.5	748.2	408.0	333.4	274.6	235.1	206.8	192.1
40°	9030.1	7574.4	3511.4	1464.7	724.4	387.6	323.2	262.2	222.6	192.1	176.3
42.5°	9544.3	7923.6	3486.6	1426.3	686.0	391.0	315.3	256.5	210.2	178.6	165.0
45°	9960.2	8254.8	3520.5	1405.9	644.2	385.4	317.6	249.8	200.0	169.5	156.0
47.5°	10404.4	8722.7	3630.1	1385.6	603.5	358.3	334.5	248.6	195.5	163.9	149.2
50°	10920.8	9321.7	3881.0	1335.9	553.8	328.9	356.0	247.5	189.9	157.1	142.4
52.5°	11609.1	10002.0	4139.8	1248.8	481.5	300.6	340.2	244.1	178.6	149.2	134.5
55°	12227.3	10718.5	4359.1	1146.0	389.9	259.9	306.3	229.4	159.4	135.6	122.1
57.5°	12482.7	11123.1	4352.3	1003.6	311.9	228.3	252.0	210.2	139.0	119.8	108.5
59°	12388.9	11072.3	4206.5	898.5	284.8	211.3	209.1	208.0	130.0	108.5	99.5
60°	12256.7	10886.9	4049.4	846.5	267.9	200.0	192.1	205.7	122.1	101.7	92.7
62.5°	11750.4	10118.4	3528.4	758.3	245.2	169.5	153.7	174.0	108.5	88.2	80.2
65°	11016.9	8937.4	2987.0	733.5	238.5	140.1	127.7	124.3	92.7	74.6	67.8
67.5°	9586.1	7563.1	2419.7	716.5	240.7	117.5	111.9	93.8	76.9	62.2	57.6
70°	7675.0	5897.2	1981.2	697.3	243.0	96.1	93.8	74.6	62.2	52.0	47.5
72.5°	4663.1	3495.6	1559.6	605.8	236.2	76.9	83.6	56.5	45.2	37.3	35.0
75°	2883.1	2392.6	967.4	471.3	156.0	56.5	58.8	35.0	30.5	23.7	23.7
77.5°	1670.4	1511.0	345.8	169.5	68.9	33.9	26.0	18.1	17.0	10.2	10.2
80°	692.8	554.9	119.8	57.6	37.3	15.8	5.7	1.1	0.0	0.0	0.0
82.5°	202.3	179.7	32.8	26.0	11.3	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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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	4971.6	4971.6	4971.6	4971.6	4971.6	4971.6	4971.6	4971.6	4971.6	4971.6	4971.6
2.5°	4021.1	3983.9	3966.9	4024.5	3971.4	4039.2	3987.2	4009.8	4076.5	4105.9	4181.6
5°	3009.6	2971.2	2953.1	3040.2	3035.6	3078.6	3074.1	3113.6	3147.5	3071.8	3149.8
7.5°	2096.5	2070.5	2113.4	2181.2	2253.6	2229.8	2229.8	2176.7	2194.8	2183.5	2180.1
10°	1594.7	1505.4	1482.8	1480.5	1507.6	1513.3	1482.8	1409.3	1436.4	1444.4	1491.8
12.5°	1254.5	1185.5	1080.4	1033.0	1020.5	1030.7	930.1	865.7	896.2	878.1	924.5
15°	899.6	843.1	780.9	727.8	713.1	692.8	583.2	506.3	497.3	500.7	508.6
17.5°	641.9	603.5	603.5	547.0	516.5	455.5	400.1	366.2	362.8	366.2	371.8
20°	473.5	453.2	450.9	436.2	402.3	361.7	323.2	316.4	314.2	319.8	322.1
22.5°	408.0	386.5	368.4	367.3	335.7	301.8	283.7	274.6	275.8	278.0	283.7
25°	365.0	342.4	323.2	311.9	289.3	265.6	248.6	244.1	244.1	247.5	248.6
27.5°	334.5	306.3	289.3	273.5	253.2	232.8	218.1	214.7	212.5	214.7	220.4
30°	313.1	284.8	263.3	239.6	223.8	204.6	192.1	187.6	186.5	187.6	192.1
32.5°	267.9	250.9	233.9	212.5	193.3	180.8	167.3	159.4	159.4	161.6	166.1
35°	202.3	193.3	192.1	186.5	170.7	157.1	141.3	133.4	133.4	137.9	140.1
37.5°	178.6	161.6	159.4	157.1	150.3	132.2	117.5	110.8	109.6	113.0	117.5
40°	162.7	143.5	133.4	131.1	132.2	111.9	96.1	89.3	89.3	90.4	94.9
42.5°	150.3	127.7	109.6	107.4	111.9	93.8	78.0	71.2	71.2	71.2	76.9
45°	140.1	114.1	92.7	81.4	88.2	76.9	63.3	56.5	54.2	56.5	58.8
47.5°	133.4	104.0	81.4	65.5	65.5	61.0	50.9	42.9	40.7	41.8	45.2
50°	127.7	94.9	68.9	53.1	47.5	48.6	38.4	32.8	30.5	30.5	33.9
52.5°	118.7	85.9	59.9	45.2	36.2	32.8	28.3	23.7	22.6	23.7	26.0
55°	107.4	78.0	52.0	37.3	28.3	22.6	20.3	17.0	15.8	17.0	20.3
57.5°	94.9	65.5	41.8	29.4	19.2	14.7	13.6	11.3	9.0	10.2	12.4
59°	87.0	58.8	36.2	23.7	14.7	10.2	10.2	7.9	5.7	6.8	10.2
60°	83.6	54.2	30.5	20.3	12.4	7.9	7.9	5.7	3.4	4.5	7.9
62.5°	71.2	45.2	23.7	12.4	5.7	1.1	3.4	1.1	0.0	1.1	3.4
65°	59.9	36.2	15.8	5.7	0.0	0.0	0.0	0.0	0.0	0.0	1.1
67.5°	49.7	27.1	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	39.6	18.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	27.1	10.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	17.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	6.8	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: P453595

CATALOG NUMBER: GALN-SA4C-827-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4971.6	4971.6	4971.6	4971.6	4971.6	4971.6	4971.6	4971.6	4971.6	4971.6
2.5°	4186.2	4347.8	4447.2	4634.8	4827.0	4975.0	5160.4	5326.5	5395.4	5431.6
5°	3228.9	3453.8	3644.8	3930.7	4196.3	4519.6	4847.3	5233.8	5381.9	5420.3
7.5°	2266.0	2495.4	2695.5	3026.6	3405.2	3838.1	4328.6	4819.1	5034.9	5095.9
10°	1636.5	1881.7	2125.9	2457.0	2810.7	3279.8	3790.6	4397.5	4646.1	4693.6
12.5°	1033.0	1296.3	1693.0	2102.1	2476.2	2853.7	3388.3	4048.3	4322.9	4409.9
15°	599.0	795.6	1095.1	1628.6	2104.4	2603.9	3187.1	3917.2	4224.6	4313.9
17.5°	401.2	469.0	674.7	1082.7	1711.1	2373.4	3136.2	4024.5	4364.7	4478.9
20°	337.9	368.4	440.8	660.0	1317.8	2167.7	3149.8	4316.1	4762.5	4904.9
22.5°	297.2	325.5	371.8	474.7	920.0	1912.2	3214.2	4733.2	5309.5	5491.5
25°	262.2	290.5	331.1	393.3	618.2	1617.3	3355.5	5343.4	6034.0	6234.0
27.5°	232.8	258.8	293.8	347.0	475.8	1288.4	3480.9	5937.9	6695.1	6857.9
30°	205.7	227.2	261.1	301.8	395.6	993.4	3544.2	6457.8	7176.6	7357.4
32.5°	178.6	198.9	231.7	264.5	325.5	757.2	3500.1	6839.8	7644.5	7759.8
35°	152.6	174.0	201.2	231.7	281.4	611.4	3279.8	7269.3	8129.3	8219.7
37.5°	131.1	149.2	177.4	201.2	254.3	489.4	3013.0	7655.8	8672.9	8802.9
40°	110.8	128.8	157.1	178.6	233.9	385.4	2772.3	8085.2	9245.9	9406.4
42.5°	90.4	111.9	136.8	171.8	201.2	293.8	2480.7	8433.3	9676.5	9877.7
45°	72.3	96.1	123.2	170.7	175.2	223.8	2199.3	8704.6	10057.4	10238.2
47.5°	57.6	81.4	118.7	159.4	143.5	177.4	2038.8	8988.3	10373.8	10518.5
50°	46.3	67.8	124.3	140.1	119.8	150.3	2034.3	9304.7	10537.7	10633.8
52.5°	37.3	55.4	105.1	107.4	101.7	132.2	2156.4	9660.7	10705.0	10784.1
55°	31.6	46.3	68.9	79.1	91.5	119.8	2247.9	10208.8	11103.9	11178.5
57.5°	24.9	39.6	53.1	63.3	81.4	109.6	2260.3	10631.5	11609.1	11657.7
59°	21.5	33.9	47.5	56.5	74.6	102.8	2209.5	10657.5	11641.9	11719.9
60°	18.1	30.5	41.8	53.1	68.9	97.2	2154.1	10468.8	11519.8	11606.9
62.5°	13.6	23.7	30.5	42.9	56.5	83.6	1891.9	9809.9	11053.1	11114.1
65°	9.0	17.0	22.6	31.6	44.1	72.3	1541.6	8955.5	10332.0	10468.8
67.5°	5.7	12.4	18.1	23.7	36.2	61.0	1098.5	7679.5	9322.8	9410.9
70°	3.4	7.9	13.6	19.2	28.3	48.6	652.1	6070.1	7756.4	7774.4
72.5°	2.3	5.7	9.0	13.6	22.6	44.1	316.4	3956.7	5663.3	5879.2
75°	1.1	3.4	5.7	10.2	18.1	36.2	151.4	2643.5	4120.6	4182.8
77.5°	0.0	1.1	3.4	6.8	13.6	28.3	88.2	1735.9	2809.6	2874.0
80°	0.0	0.0	2.3	5.7	10.2	18.1	53.1	1023.9	1702.0	1733.7
82.5°	0.0	0.0	1.1	4.5	6.8	13.6	27.1	449.8	1114.3	1125.7
85°	0.0	0.0	1.1	4.5	5.7	9.0	10.2	61.0	495.0	504.1
87.5°	0.0	0.0	1.1	5.7	5.7	5.7	5.7	3.4	41.8	52.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)