

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: P459366

Luminaire Tested: **GALN-SA8B-735-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459366
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-735-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 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: 30739 lumens
Efficiency: N/A
Efficacy: 94.6 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

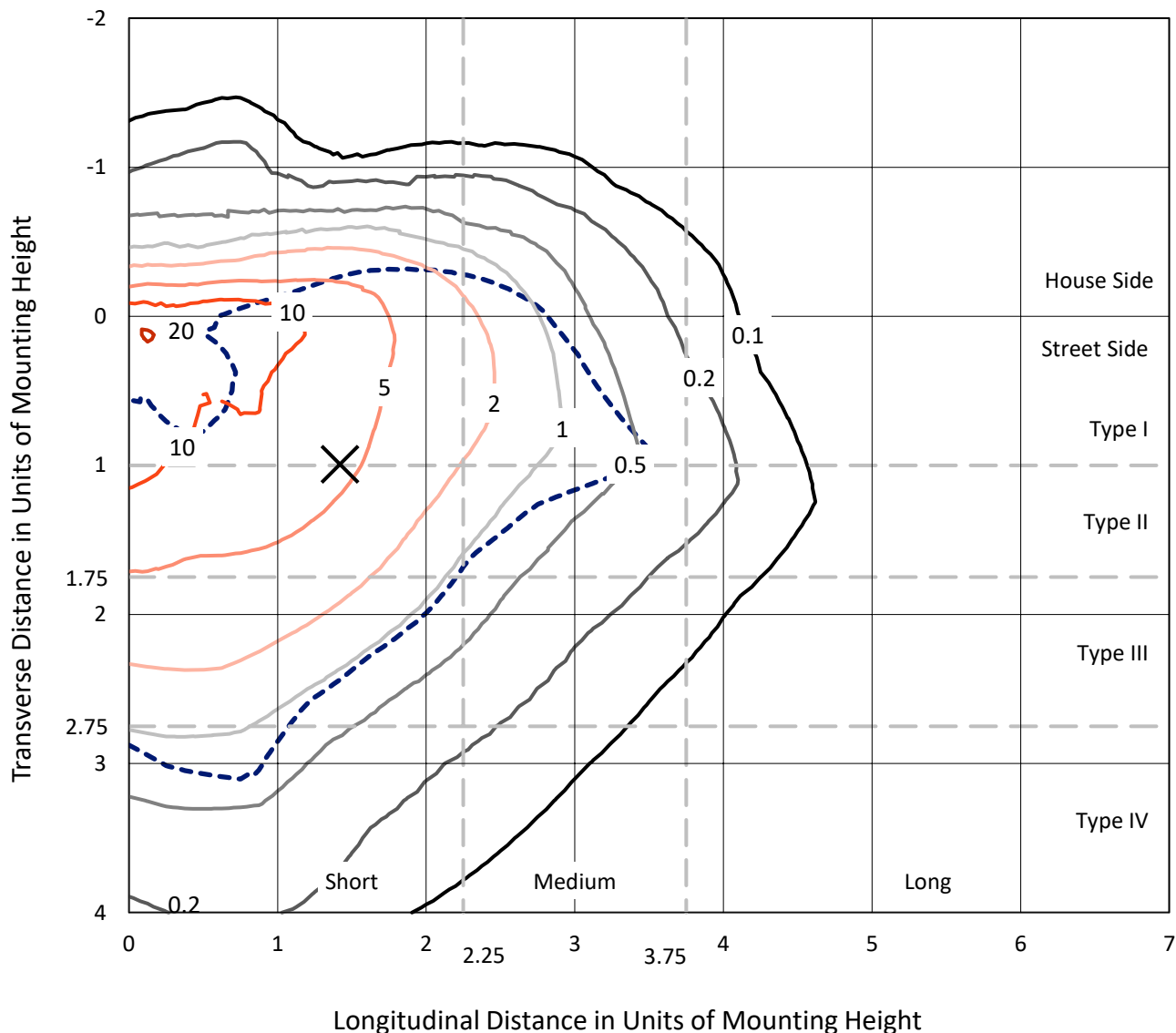
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

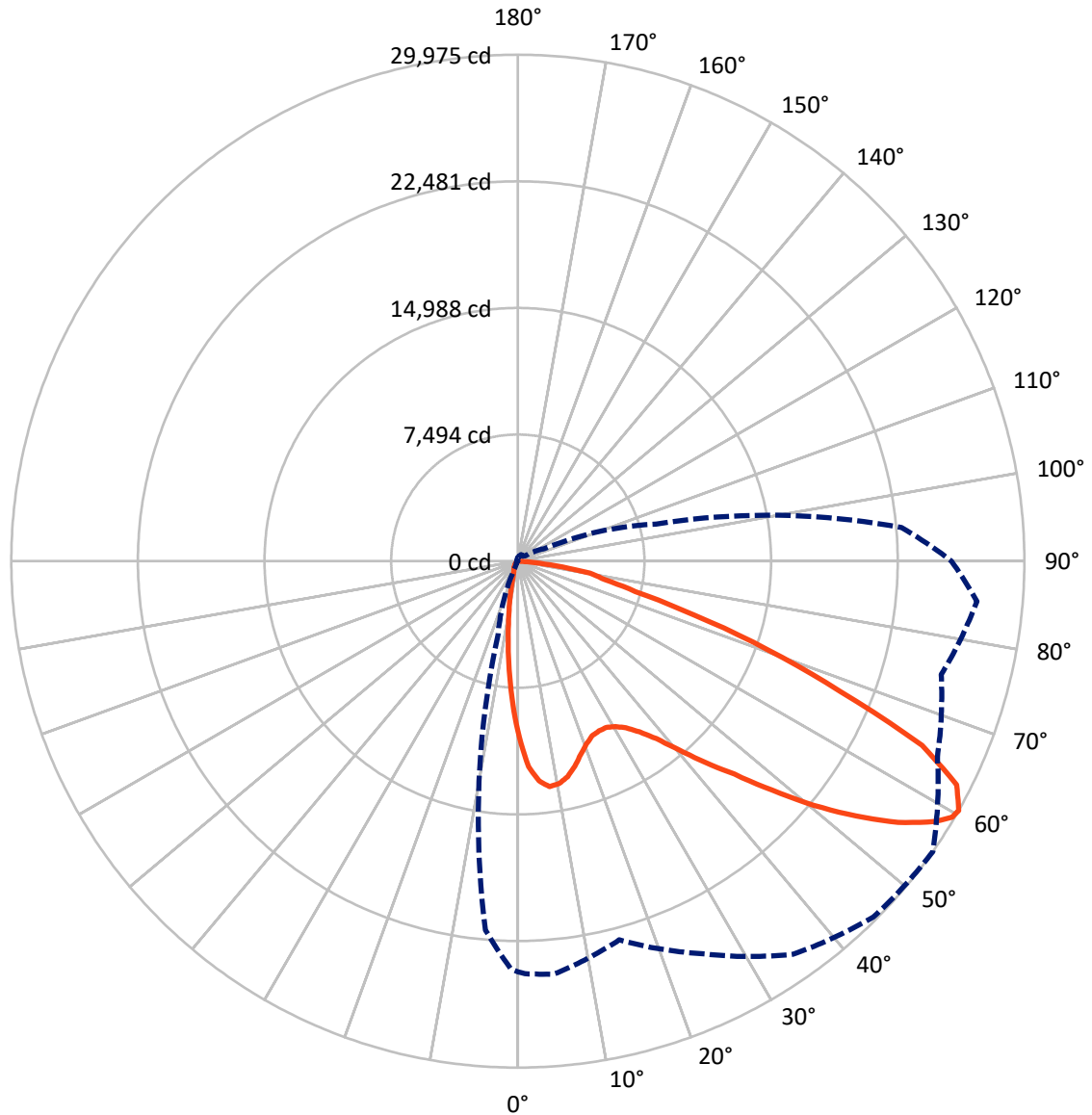
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.5 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	4561.9	0.0	4561.9
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	26177.1	0.0	26177.1
	% Fixture	85.2	0.0	85.2
Total	Lumens	30739.0	0.0	30739.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	770.7	2.5
10°-20°	1517.8	4.9
20°-30°	2246.6	7.3
30°-40°	3348.7	10.9
40°-50°	4904.3	16.0
50°-60°	7080.2	23.0
60°-70°	7448.0	24.2
70°-80°	3063.9	10.0
80°-90°	358.8	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°	30739.0	100.0
0°-180°	30739.0	100.0

Coefficient of Utilization



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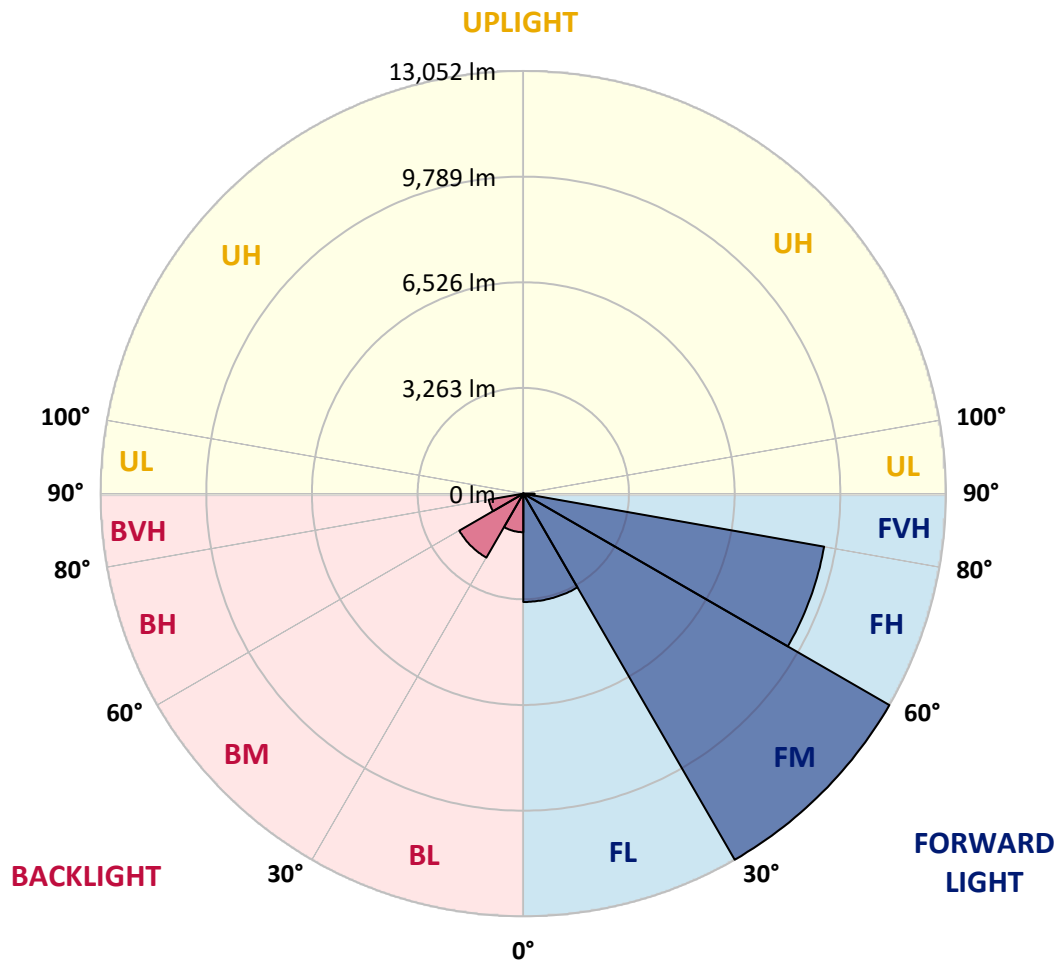
CATALOG NUMBER: GALN-SA8B-735-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3344.8	10.9			
FM	(30°-60°)	13051.8	42.5			
FH	(60°-80°)	9432.1	30.7			G4/12000
FVH	(80°-90°)	348.3	1.1			G3/500
BL	(0°-30°)	1190.2	3.9	B3/2500		
BM	(30°-60°)	2281.4	7.4	B2/2500		
BH	(60°-80°)	1079.8	3.5	B3/2500		G3/2500
BVH	(80°-90°)	10.5	0.0			G1/100
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





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10408.1	10408.1	10408.1	10408.1	10408.1	10408.1	10408.1	10408.1	10408.1	10408.1	10408.1
2.5°	11371.1	11352.2	11520.2	11794.6	12071.5	12215.8	12187.4	12175.6	11946.1	11778.1	11425.5
5°	11347.5	11444.5	11744.9	12487.9	13051.0	13323.1	13403.5	13065.2	12618.0	11969.7	11170.0
7.5°	10668.4	10789.1	11278.8	12440.6	13441.4	14032.9	14011.6	13469.8	12547.0	11543.8	10403.4
10°	9826.1	9968.1	10543.0	11953.2	13252.1	14032.9	14075.5	13389.3	12241.8	10954.7	9755.1
12.5°	9232.2	9400.2	10036.7	11498.9	12764.7	13533.7	13583.3	13086.5	12012.3	10727.6	9402.6
15°	9031.1	9189.6	9835.6	11269.4	12246.5	12660.6	12648.8	12596.7	11922.4	10782.0	9421.5
17.5°	9376.6	9506.7	10235.4	11373.5	11761.5	11718.9	11780.4	12031.2	11941.3	11238.6	10017.7
20°	10268.5	10401.0	11184.2	11692.9	11390.0	11120.3	11148.7	11567.5	12116.4	12097.5	10950.0
22.5°	11496.5	11721.3	12431.1	12312.8	11340.4	10748.8	10689.7	11233.9	12414.5	13086.5	12208.7
25°	13051.0	13278.1	13831.8	13301.8	11584.1	10661.3	10606.9	11132.1	12776.5	14051.8	13625.9
27.5°	14357.0	14529.8	15081.0	14264.8	11943.7	10699.2	10609.3	11146.3	13069.9	14872.8	14820.8
30°	15402.8	15530.6	15854.7	14714.3	12253.6	10864.8	10760.7	11354.6	13200.0	15272.7	15788.5
32.5°	16245.1	16460.4	16562.2	15194.6	12698.5	11177.1	10999.6	11754.4	13517.1	15767.2	16803.5
35°	17208.1	17456.5	17326.4	15653.6	13285.2	11664.5	11446.8	12402.7	13997.4	16223.8	17981.8
37.5°	18429.0	18715.3	18206.6	16136.3	13905.1	12398.0	12296.2	13313.6	14726.1	16876.9	19245.2
40°	19692.4	19858.0	19060.7	16723.1	14667.0	13465.0	13562.1	14667.0	15679.6	17660.0	20589.1
42.5°	20679.1	20835.2	19938.5	17215.2	15445.4	14730.9	15135.5	16299.5	16772.7	18462.1	21592.3
45°	21433.8	21566.3	20546.6	17752.3	16495.9	16564.5	17328.8	17981.8	17868.2	18951.9	22366.0
47.5°	22020.6	22134.2	21015.0	18329.6	18069.3	18807.5	19976.3	20253.2	19003.9	19481.8	23066.4
50°	22261.9	22295.0	21161.7	19065.4	19855.7	21665.7	22884.2	22716.2	20305.2	20071.0	23811.7
52.5°	22576.6	22569.5	21580.5	19765.8	21535.6	24221.0	25437.1	25056.2	21776.9	20953.5	24649.2
55°	23402.3	23411.8	22477.2	20759.5	22967.0	26284.2	27585.5	27308.7	23329.0	22444.1	25626.4
57.5°	24405.5	24441.0	23752.5	21921.2	24334.6	27779.5	29189.6	29083.2	25427.7	24102.7	26549.2
59°	24535.7	24606.7	24355.9	22739.9	25146.1	28238.5	29738.6	29842.7	26551.5	25195.8	27048.4
60°	24299.1	24417.4	24530.9	23203.6	25621.7	28404.1	29771.7	29975.2	27396.2	25938.7	27275.5
62.5°	23267.5	23454.4	24024.6	24630.3	26215.5	27888.3	28714.1	29140.0	28442.0	27890.7	27296.8
65°	21916.5	22013.5	22836.9	24883.5	25063.3	25479.7	25735.2	26281.8	27185.6	28643.1	26319.7
67.5°	19701.9	19988.2	20996.1	23414.2	21663.3	21171.2	21107.3	20563.1	22910.2	26849.6	23911.0
70°	16275.9	16403.6	17645.8	19195.6	16349.2	15592.1	15895.0	15691.5	17759.4	23113.7	19245.2
72.5°	12308.1	12596.7	13810.5	15301.1	11125.0	10143.1	10978.4	10902.6	13339.6	18575.7	13221.3
75°	8756.7	8943.6	10491.0	11974.4	7791.3	6601.2	6901.7	7183.2	9312.7	14667.0	7812.6
77.5°	6016.8	6177.7	7339.4	7919.1	5683.2	5444.2	4980.5	5252.6	6102.0	8702.2	4251.7
80°	3629.5	3622.4	4386.6	4528.6	3958.4	4597.2	3856.6	4329.8	3688.6	3724.1	1646.8
82.5°	2356.6	2332.9	2683.1	2924.4	2202.8	2316.3	1554.5	2240.6	2403.9	1038.7	520.5
85°	1055.2	1100.2	1289.5	1701.2	965.3	513.4	317.0	688.5	1024.5	522.9	0.0
87.5°	108.8	85.2	227.1	414.1	132.5	14.2	47.3	23.7	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°	10408.1	10408.1	10408.1	10408.1	10408.1	10408.1	10408.1	10408.1	10408.1	10408.1	10408.1
2.5°	11262.3	11125.0	10715.7	10332.4	10003.6	9601.3	9341.1	8931.7	8683.3	8607.6	8619.4
5°	10810.4	10415.2	9636.8	9014.6	8321.3	7926.2	7325.2	6747.9	6435.6	6319.7	6267.6
7.5°	9864.0	9440.4	8501.1	7524.0	6781.0	6087.8	5640.6	5131.9	4784.1	4497.8	4448.1
10°	9161.2	8605.2	7441.1	6390.6	5803.9	5283.3	4836.2	4327.5	3918.1	3591.6	3501.7
12.5°	8740.1	8117.8	6818.9	5938.7	5382.7	4848.0	4265.9	3676.8	3258.0	2905.5	2742.2
15°	8664.4	7942.7	6643.8	5614.6	4928.4	4282.5	3508.8	2872.4	2441.7	2108.1	2006.4
17.5°	9121.0	8257.4	6617.8	5276.2	4334.6	3418.9	2614.5	2086.8	1601.8	1414.9	1341.5
20°	9934.9	8813.4	6615.4	4883.5	3724.1	2633.4	1836.0	1360.5	1164.1	1074.2	1031.6
22.5°	11044.6	9570.6	6740.8	4545.1	3090.0	1942.5	1310.8	1083.6	970.1	896.7	880.2
25°	12400.3	10692.1	7048.4	4315.6	2605.0	1523.7	1081.3	927.5	832.8	799.7	785.5
27.5°	13604.6	11766.2	7386.7	4079.0	2257.2	1348.6	1003.2	849.4	773.7	747.7	726.4
30°	14643.3	12741.0	7550.0	3766.7	1978.0	1235.1	1017.4	908.6	809.2	731.1	695.6
32.5°	15509.3	13488.7	7656.5	3482.8	1741.4	1010.3	804.4	702.7	657.8	629.4	605.7
35°	16592.9	14297.9	7592.6	3321.9	1620.7	920.4	733.5	605.7	530.0	473.2	449.5
37.5°	17728.6	15107.1	7481.4	3189.4	1566.3	854.1	698.0	574.9	492.1	433.0	402.2
40°	18904.5	15857.1	7351.2	3066.4	1516.6	811.5	676.7	548.9	466.1	402.2	369.1
42.5°	19981.1	16588.2	7299.2	2985.9	1436.2	818.6	660.1	537.1	440.1	373.8	345.4
45°	20851.8	17281.4	7370.2	2943.3	1348.6	806.8	664.9	522.9	418.8	354.9	326.5
47.5°	21781.6	18261.0	7599.7	2900.7	1263.5	750.0	700.3	520.5	409.3	343.1	312.3
50°	22862.9	19515.0	8124.9	2796.6	1159.4	688.5	745.3	518.2	397.5	328.9	298.1
52.5°	24303.8	20939.3	8666.7	2614.5	1007.9	629.4	712.2	511.1	373.8	312.3	281.6
55°	25598.0	22439.4	9125.8	2399.1	816.3	544.2	641.2	480.3	333.6	283.9	255.5
57.5°	26132.7	23286.4	9111.6	2101.0	653.0	477.9	527.6	440.1	291.0	250.8	227.1
59°	25936.4	23179.9	8806.3	1881.0	596.2	442.4	437.7	435.3	272.1	227.1	208.2
60°	25659.5	22791.9	8477.5	1772.2	560.7	418.8	402.2	430.6	255.5	212.9	194.0
62.5°	24599.6	21183.0	7386.7	1587.6	513.4	354.9	321.8	364.4	227.1	184.5	168.0
65°	23064.0	18710.5	6253.4	1535.5	499.2	293.4	267.4	260.3	194.0	156.2	142.0
67.5°	20068.6	15833.4	5065.7	1500.1	504.0	246.1	234.2	196.4	160.9	130.1	120.7
70°	16067.7	12345.9	4147.6	1459.8	508.7	201.1	196.4	156.2	130.1	108.8	99.4
72.5°	9762.2	7318.1	3265.1	1268.2	494.5	160.9	175.1	118.3	94.6	78.1	73.3
75°	6035.7	5008.9	2025.3	986.6	326.5	118.3	123.0	73.3	63.9	49.7	49.7
77.5°	3497.0	3163.4	724.0	354.9	144.3	71.0	54.4	37.9	35.5	21.3	21.3
80°	1450.4	1161.7	250.8	120.7	78.1	33.1	11.8	2.4	0.0	0.0	0.0
82.5°	423.5	376.2	68.6	54.4	23.7	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°	10408.1	10408.1	10408.1	10408.1	10408.1	10408.1	10408.1	10408.1	10408.1	10408.1	10408.1
2.5°	8418.3	8340.2	8304.7	8425.4	8314.2	8456.2	8347.3	8394.7	8534.2	8595.8	8754.3
5°	6300.7	6220.3	6182.4	6364.6	6355.1	6445.0	6435.6	6518.4	6589.4	6430.9	6594.1
7.5°	4389.0	4334.6	4424.5	4566.4	4717.9	4668.2	4668.2	4557.0	4594.8	4571.2	4564.1
10°	3338.5	3151.5	3104.2	3099.5	3156.3	3168.1	3104.2	2950.4	3007.2	3023.8	3123.2
12.5°	2626.3	2482.0	2261.9	2162.5	2136.5	2157.8	1947.2	1812.4	1876.3	1838.4	1935.4
15°	1883.4	1765.1	1634.9	1523.7	1493.0	1450.4	1220.9	1060.0	1041.1	1048.1	1064.7
17.5°	1343.9	1263.5	1263.5	1145.2	1081.3	953.5	837.6	766.6	759.5	766.6	778.4
20°	991.4	948.8	944.0	913.3	842.3	757.1	676.7	662.5	657.8	669.6	674.3
22.5°	854.1	809.2	771.3	769.0	702.7	631.7	593.9	574.9	577.3	582.0	593.9
25°	764.2	716.9	676.7	653.0	605.7	556.0	520.5	511.1	511.1	518.2	520.5
27.5°	700.3	641.2	605.7	572.6	530.0	487.4	456.6	449.5	444.8	449.5	461.4
30°	655.4	596.2	551.3	501.6	468.5	428.3	402.2	392.8	390.4	392.8	402.2
32.5°	560.7	525.3	489.8	444.8	404.6	378.6	350.2	333.6	333.6	338.3	347.8
35°	423.5	404.6	402.2	390.4	357.3	328.9	295.8	279.2	279.2	288.7	293.4
37.5°	373.8	338.3	333.6	328.9	314.7	276.8	246.1	231.9	229.5	236.6	246.1
40°	340.7	300.5	279.2	274.5	276.8	234.2	201.1	186.9	186.9	189.3	198.7
42.5°	314.7	267.4	229.5	224.8	234.2	196.4	163.3	149.1	149.1	149.1	160.9
45°	293.4	239.0	194.0	170.4	184.5	160.9	132.5	118.3	113.6	118.3	123.0
47.5°	279.2	217.7	170.4	137.2	137.2	127.8	106.5	89.9	85.2	87.5	94.6
50°	267.4	198.7	144.3	111.2	99.4	101.7	80.4	68.6	63.9	63.9	71.0
52.5°	248.4	179.8	125.4	94.6	75.7	68.6	59.2	49.7	47.3	49.7	54.4
55°	224.8	163.3	108.8	78.1	59.2	47.3	42.6	35.5	33.1	35.5	42.6
57.5°	198.7	137.2	87.5	61.5	40.2	30.8	28.4	23.7	18.9	21.3	26.0
59°	182.2	123.0	75.7	49.7	30.8	21.3	21.3	16.6	11.8	14.2	21.3
60°	175.1	113.6	63.9	42.6	26.0	16.6	16.6	11.8	7.1	9.5	16.6
62.5°	149.1	94.6	49.7	26.0	11.8	2.4	7.1	2.4	0.0	2.4	7.1
65°	125.4	75.7	33.1	11.8	0.0	0.0	0.0	0.0	0.0	0.0	2.4
67.5°	104.1	56.8	16.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	82.8	37.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	56.8	21.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	35.5	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	14.2	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: P459366

CATALOG NUMBER: GALN-SA8B-735-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10408.1	10408.1	10408.1	10408.1	10408.1	10408.1	10408.1	10408.1	10408.1	10408.1
2.5°	8763.8	9102.1	9310.3	9703.1	10105.3	10415.2	10803.3	11151.1	11295.4	11371.1
5°	6759.7	7230.6	7630.4	8229.0	8785.0	9461.7	10147.9	10957.1	11267.0	11347.5
7.5°	4743.9	5224.2	5643.0	6336.2	7128.8	8035.0	9061.9	10088.7	10540.6	10668.4
10°	3426.0	3939.4	4450.5	5143.7	5884.3	6866.2	7935.6	9206.2	9726.7	9826.1
12.5°	2162.5	2713.8	3544.3	4400.8	5184.0	5974.2	7093.3	8475.1	9050.0	9232.2
15°	1254.0	1665.7	2292.7	3409.4	4405.5	5451.3	6672.2	8200.6	8844.2	9031.1
17.5°	839.9	981.9	1412.5	2266.7	3582.2	4968.7	6565.7	8425.4	9137.6	9376.6
20°	707.4	771.3	922.7	1381.8	2758.8	4538.0	6594.1	9035.8	9970.4	10268.5
22.5°	622.3	681.4	778.4	993.7	1925.9	4003.3	6729.0	9908.9	11115.6	11496.5
25°	548.9	608.1	693.2	823.4	1294.2	3385.8	7024.7	11186.6	12632.2	13051.0
27.5°	487.4	541.8	615.2	726.4	996.1	2697.3	7287.4	12431.1	14016.3	14357.0
30°	430.6	475.6	546.6	631.7	828.1	2079.7	7419.9	13519.5	15024.3	15402.8
32.5°	373.8	416.4	485.0	553.6	681.4	1585.2	7327.6	14319.2	16003.8	16245.1
35°	319.4	364.4	421.2	485.0	589.1	1280.0	6866.2	15218.3	17018.8	17208.1
37.5°	274.5	312.3	371.5	421.2	532.4	1024.5	6307.8	16027.4	18156.9	18429.0
40°	231.9	269.7	328.9	373.8	489.8	806.8	5803.9	16926.5	19356.4	19692.4
42.5°	189.3	234.2	286.3	359.6	421.2	615.2	5193.4	17655.3	20257.9	20679.1
45°	151.4	201.1	257.9	357.3	366.7	468.5	4604.3	18223.1	21055.2	21433.8
47.5°	120.7	170.4	248.4	333.6	300.5	371.5	4268.3	18817.0	21717.7	22020.6
50°	97.0	142.0	260.3	293.4	250.8	314.7	4258.8	19479.5	22060.8	22261.9
52.5°	78.1	115.9	220.0	224.8	212.9	276.8	4514.4	20224.8	22411.0	22576.6
55°	66.2	97.0	144.3	165.6	191.6	250.8	4706.0	21372.3	23246.2	23402.3
57.5°	52.1	82.8	111.2	132.5	170.4	229.5	4732.0	22257.2	24303.8	24405.5
59°	45.0	71.0	99.4	118.3	156.2	215.3	4625.6	22311.6	24372.4	24535.7
60°	37.9	63.9	87.5	111.2	144.3	203.5	4509.6	21916.5	24116.9	24299.1
62.5°	28.4	49.7	63.9	89.9	118.3	175.1	3960.7	20537.1	23139.7	23267.5
65°	18.9	35.5	47.3	66.2	92.3	151.4	3227.3	18748.4	21630.2	21916.5
67.5°	11.8	26.0	37.9	49.7	75.7	127.8	2299.8	16077.1	19517.3	19701.9
70°	7.1	16.6	28.4	40.2	59.2	101.7	1365.2	12707.9	16238.0	16275.9
72.5°	4.7	11.8	18.9	28.4	47.3	92.3	662.5	8283.5	11856.1	12308.1
75°	2.4	7.1	11.8	21.3	37.9	75.7	317.0	5534.1	8626.5	8756.7
77.5°	0.0	2.4	7.1	14.2	28.4	59.2	184.5	3634.2	5881.9	6016.8
80°	0.0	0.0	4.7	11.8	21.3	37.9	111.2	2143.6	3563.2	3629.5
82.5°	0.0	0.0	2.4	9.5	14.2	28.4	56.8	941.7	2332.9	2356.6
85°	0.0	0.0	2.4	9.5	11.8	18.9	21.3	127.8	1036.3	1055.2
87.5°	0.0	0.0	2.4	11.8	11.8	11.8	11.8	7.1	87.5	108.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)