

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: P534432

Luminaire Tested: **GALN-SA9D-830-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534432
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-830-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47514 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 552
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

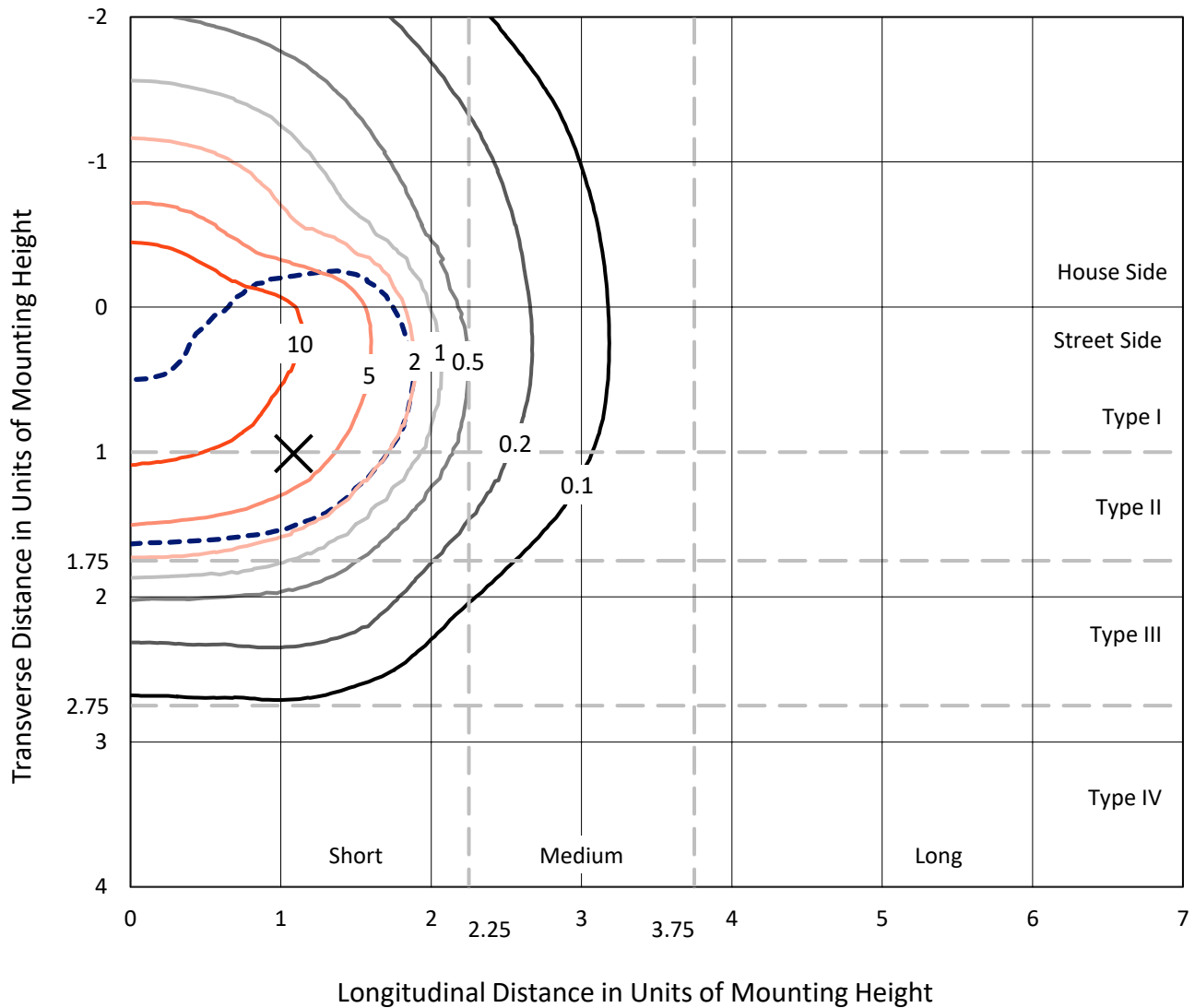


REPORT NUMBER: P534432

CATALOG NUMBER: GALN-SA9D-830-U-T3-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

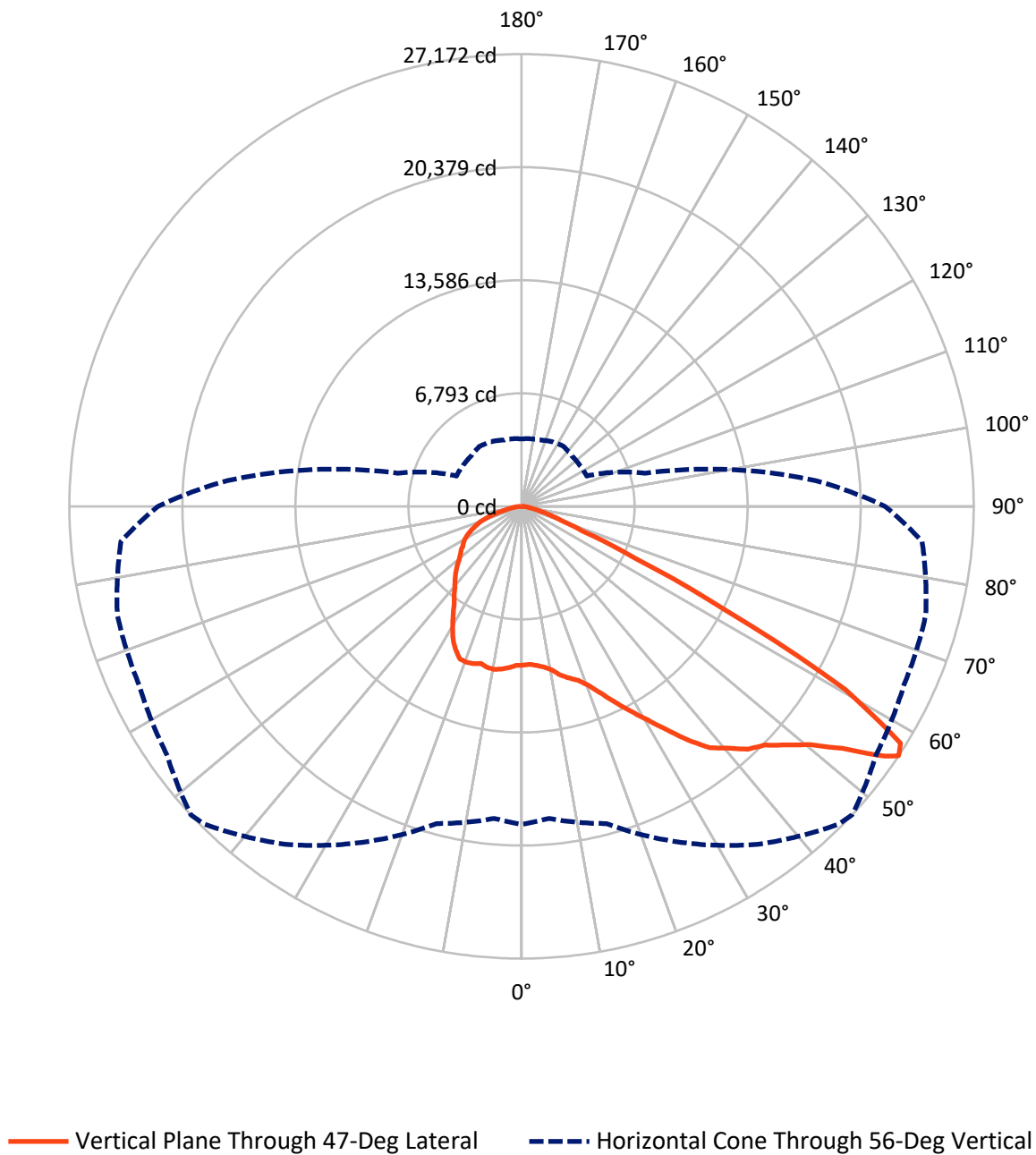


Based on 25 foot mounting height. Maximum calculated value = 16 fc
Type II - Short - N/A

REPORT NUMBER: P534432

CATALOG NUMBER: GALN-SA9D-830-U-T3-GRSWH

Luminous Intensity Polar Plot



REPORT NUMBER: P534432

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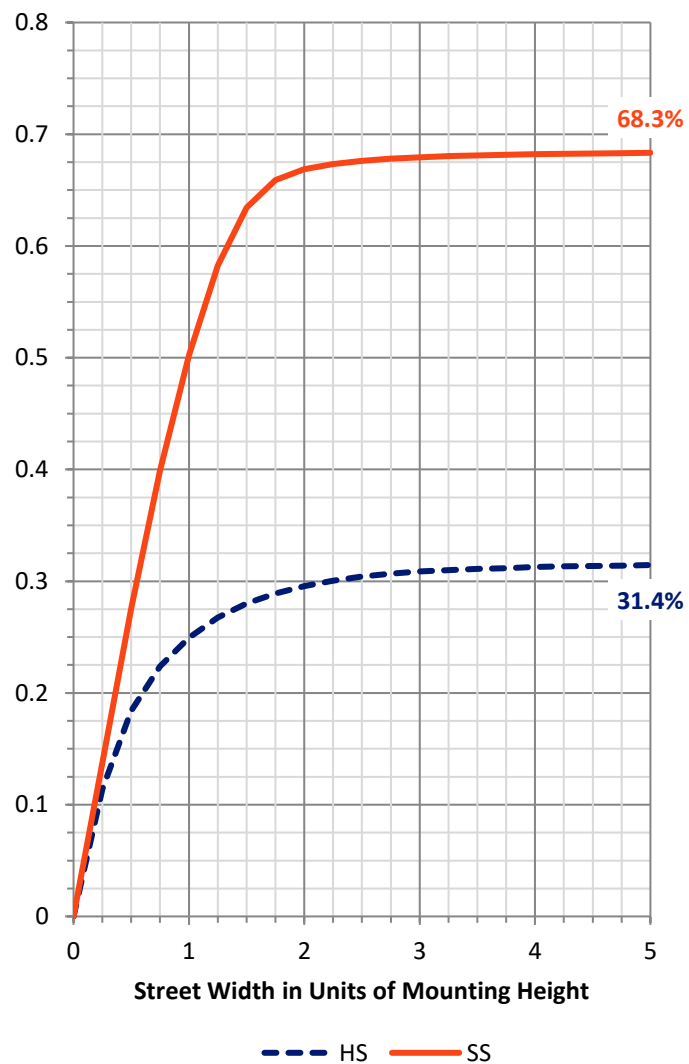
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15056.6	0.0	15056.6
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	32457.4	0.0	32457.4
	% Fixture	68.3	0.0	68.3
Total	Lumens	47514.0	0.0	47514.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	930.0	2.0
10°-20°	2933.5	6.2
20°-30°	5185.7	10.9
30°-40°	7788.8	16.4
40°-50°	10689.4	22.5
50°-60°	12735.0	26.8
60°-70°	5449.8	11.5
70°-80°	1542.3	3.2
80°-90°	259.5	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°	47514.0	100.0
0°-180°	47514.0	100.0

Coefficient of Utilization



REPORT NUMBER: P534432

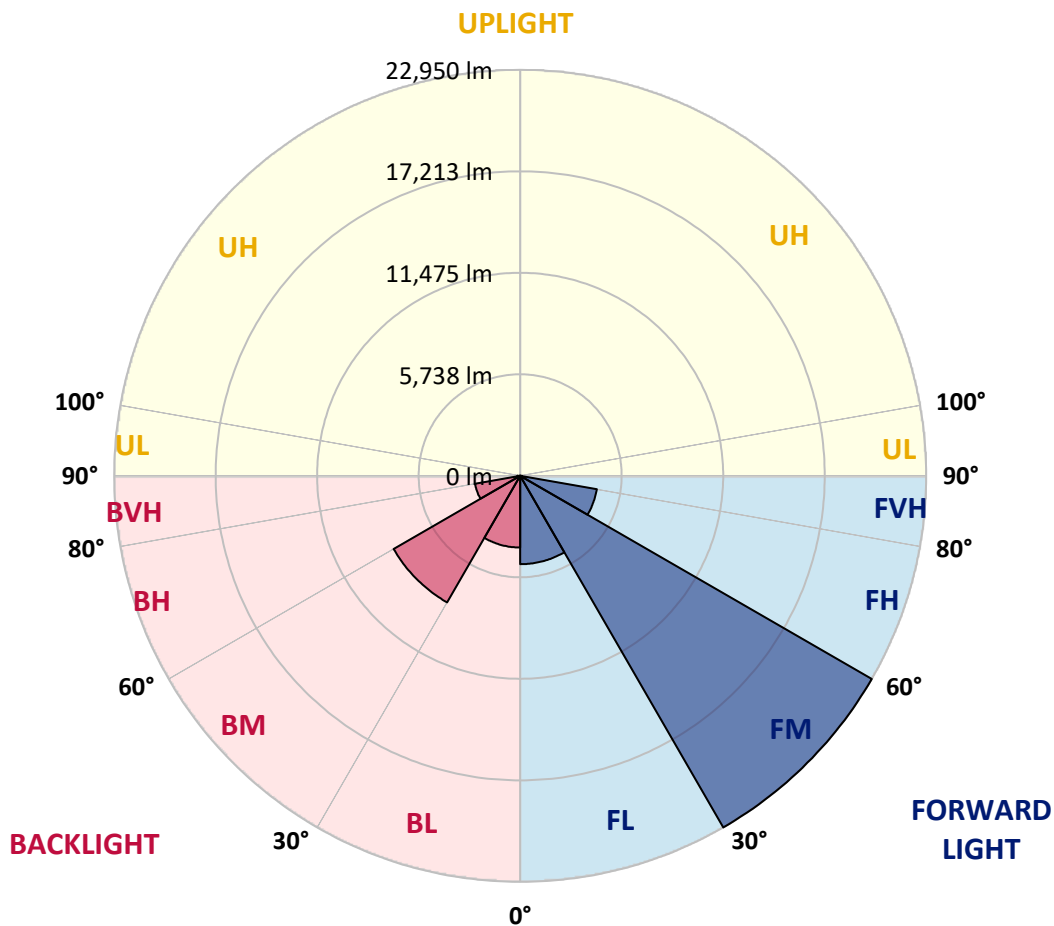
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4995.3	10.5			
FM	(30°-60°)	22950.4	48.3			
FH	(60°-80°)	4401.5	9.3			G2/5000
FVH	(80°-90°)	110.2	0.2			G2/225
BL	(0°-30°)	4053.9	8.5	B4/5000		
BM	(30°-60°)	8262.8	17.4	B4/8500		
BH	(60°-80°)	2590.6	5.5	B4/5000		G4/5000
BVH	(80°-90°)	149.4	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short



REPORT NUMBER: P534432

CATALOG NUMBER: GALN-SA9D-830-U-T3-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	9544.1	9544.1	9544.1	9544.1	9544.1	9544.1	9544.1	9544.1	9544.1	9544.1	9544.1
2.5°	9507.8	9489.6	9477.5	9574.4	9538.1	9544.1	9507.8	9544.1	9568.4	9513.8	9592.6
5°	9489.6	9544.1	9495.6	9525.9	9604.7	9580.5	9604.7	9677.4	9659.3	9641.1	9616.8
7.5°	9659.3	9665.3	9701.7	9713.8	9738.0	9713.8	9750.2	9816.8	9798.6	9695.6	9707.7
10°	9901.6	9913.8	9919.8	9986.5	10028.9	10035.0	9992.5	9931.9	9925.9	10065.3	9968.3
12.5°	10180.4	10150.1	10222.8	10247.1	10295.5	10350.1	10404.6	10277.3	10356.1	10362.2	10247.1
15°	10586.4	10616.7	10531.9	10531.9	10550.0	10556.1	10707.6	10647.0	10634.9	10568.2	10616.7
17.5°	11192.4	10986.3	10980.3	10895.4	10883.3	10931.8	10986.3	11034.8	11198.4	11065.1	10804.5
20°	11634.7	11683.2	11507.5	11404.5	11422.6	11531.7	11477.2	11695.3	11810.5	11592.3	11337.8
22.5°	12416.4	12252.8	12295.2	12065.0	12083.2	12198.3	12192.2	12416.4	12483.1	12137.7	11768.1
25°	12943.6	12901.2	12937.6	12755.8	12780.0	12870.9	13016.4	13386.0	13276.9	12895.2	12040.7
27.5°	13713.2	13628.4	13598.1	13531.4	13507.2	13749.6	13919.3	14313.1	14234.4	13676.9	12525.5
30°	14501.0	14446.5	14476.8	14204.1	14301.0	14816.1	14864.6	15403.9	15367.5	14385.9	13064.8
32.5°	15046.4	15076.7	15131.2	14979.7	15410.0	15822.0	15985.6	16597.7	16628.0	15603.9	14107.1
35°	15925.0	15822.0	15852.3	16028.1	16228.0	16979.4	17246.1	17652.1	17906.6	16882.5	15107.0
37.5°	16476.5	16585.6	16458.3	16737.1	17258.2	18161.1	18403.5	18821.6	19088.2	18142.9	16470.4
40°	17337.0	17161.2	17252.1	17452.1	17985.4	19161.0	19094.3	19524.5	19609.4	19215.5	17743.0
42.5°	18264.1	18179.3	18052.0	18506.5	18954.9	19809.3	19942.7	19742.7	20172.9	20263.8	19560.9
45°	19373.0	19476.1	19494.2	19506.4	19900.2	20645.6	20463.8	20288.1	20785.0	21445.5	20688.0
47.5°	20403.2	20076.0	20312.3	20639.5	21197.0	21203.1	21415.2	20997.1	21524.3	22112.1	21706.1
50°	20748.6	20591.1	20906.2	21524.3	22384.7	22475.6	22499.9	21906.0	22178.7	22645.3	22057.5
52.5°	20615.3	20560.8	21366.7	22324.1	23584.6	24045.1	24166.3	23433.1	23584.6	23372.5	22833.2
55°	19979.0	20142.6	20954.6	22905.9	24838.9	26263.0	26493.3	25566.1	24602.6	24766.2	24172.4
56°	19106.4	18821.6	19730.6	22245.4	24784.4	26984.1	27172.0	26014.5	25360.1	25148.0	24160.3
57.5°	16209.9	15840.2	17034.0	20015.4	23408.8	26711.4	26850.8	26202.4	25232.8	24802.6	22396.9
60°	9489.6	9671.4	11186.3	13804.1	18058.1	21900.0	22366.6	22839.2	22190.8	20263.8	16670.4
62.5°	4581.2	4466.0	5550.7	7914.0	11004.5	13979.9	13840.5	15167.6	15894.7	14398.0	10525.8
65°	2399.7	2387.5	3029.9	4320.6	6047.6	7344.4	7471.7	8186.7	9186.6	7417.1	5344.7
67.5°	1763.4	1811.9	2133.0	3035.9	3890.4	3969.1	3951.0	4308.5	4405.4	3726.8	3284.4
70°	1381.6	1405.9	1642.2	2308.8	2896.6	2593.6	2539.0	2581.5	2866.3	2987.5	2842.0
72.5°	999.9	1024.1	1224.1	1557.4	1811.9	1769.4	1805.8	2042.1	2393.6	2520.9	2369.4
75°	666.6	684.8	793.8	951.4	1072.6	1157.4	1224.1	1496.8	1824.0	1896.7	1824.0
77.5°	460.5	478.7	551.4	672.6	684.8	739.3	763.5	890.8	1090.8	1181.7	1133.2
80°	260.6	260.6	296.9	345.4	424.2	496.9	509.0	612.0	702.9	763.5	775.6
82.5°	121.2	127.3	157.6	212.1	278.7	345.4	357.5	424.2	490.8	551.4	569.6
85°	60.6	66.7	90.9	127.3	169.7	206.0	200.0	206.0	218.2	206.0	212.1
87.5°	18.2	18.2	24.2	30.3	24.2	30.3	30.3	36.4	42.4	48.5	54.5
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: P534432

CATALOG NUMBER: GALN-SA9D-830-U-T3-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9544.1	9544.1	9544.1	9544.1	9544.1	9544.1	9544.1	9544.1	9544.1	9544.1	9544.1
2.5°	9598.7	9616.8	9495.6	9610.8	9568.4	9562.3	9647.1	9635.0	9665.3	9653.2	9580.5
5°	9604.7	9562.3	9689.6	9574.4	9629.0	9744.1	9665.3	9847.1	9756.2	9816.8	9683.5
7.5°	9792.6	9804.7	9780.4	9828.9	9804.7	9859.2	9816.8	9859.2	9786.5	9792.6	9913.8
10°	9956.2	9919.8	9962.2	9901.6	9944.1	9925.9	9828.9	9798.6	9822.9	9792.6	9871.3
12.5°	10259.2	10192.5	10162.2	10089.5	10041.0	9859.2	9707.7	9622.9	9738.0	9756.2	9719.9
15°	10568.2	10574.3	10434.9	10271.3	9968.3	9695.6	9732.0	9762.3	9762.3	9810.7	9719.9
17.5°	10762.1	10762.1	10634.9	10307.6	9998.6	9841.0	9804.7	9707.7	9622.9	9610.8	9604.7
20°	11101.5	10998.5	10707.6	10301.6	9986.5	9913.8	9641.1	9410.8	9235.1	9174.5	9168.4
22.5°	11489.3	11228.7	10822.7	10313.7	9968.3	9865.3	9356.3	9010.9	8695.8	8562.4	8580.6
25°	11846.8	11428.7	10889.4	10259.2	9901.6	9404.7	8835.1	8356.4	8029.2	7920.1	7865.6
27.5°	12095.3	11640.8	10889.4	10307.6	9653.2	8889.7	8307.9	7695.9	7411.1	7338.4	7350.5
30°	12428.6	11907.4	11077.2	10204.6	9156.3	8223.1	7526.2	7126.3	6956.6	6896.0	6938.4
32.5°	13210.3	12604.3	11337.8	9956.2	8568.5	7556.5	6993.0	6768.7	6520.3	6399.1	6356.7
35°	14058.6	13264.8	11592.3	9538.1	7908.0	6950.5	6599.1	6393.0	6096.1	5962.8	5987.0
37.5°	15258.5	14113.2	11610.5	8847.2	7192.9	6611.2	6290.0	5968.9	5726.5	5520.4	5459.8
40°	16876.4	15270.6	11568.1	8120.1	6617.3	6211.3	5974.9	5575.0	5302.3	5156.9	5187.2
42.5°	18300.5	16628.0	11392.3	7295.9	6096.1	5938.6	5671.9	5278.0	5011.4	4859.9	4847.8
45°	19500.3	17627.8	11059.1	6593.0	5659.8	5635.6	5326.5	5023.5	4811.4	4672.1	4732.7
47.5°	20609.2	18433.8	10556.1	5890.1	5259.9	5308.3	5011.4	4823.6	4690.3	4563.0	4556.9
50°	21009.2	18421.7	10113.7	5308.3	4938.7	4914.5	4902.3	4702.4	4563.0	4453.9	4502.4
52.5°	21675.8	18627.7	9635.0	4908.4	4647.8	4653.9	4696.3	4550.9	4393.3	4326.7	4387.3
55°	22633.2	18658.0	8580.6	4441.8	4405.4	4447.9	4447.9	4350.9	4217.6	4163.1	4132.8
56°	21851.5	17755.1	7695.9	4320.6	4284.2	4284.2	4399.4	4290.3	4126.7	4084.3	4047.9
57.5°	20154.8	15555.4	6441.5	4175.2	4120.6	4205.5	4266.1	4150.9	3999.4	3938.8	3975.2
60°	13901.1	10525.8	4841.7	3860.1	3860.1	3999.4	4047.9	3878.2	3811.6	3805.5	3757.1
62.5°	8114.0	6132.5	3787.3	3575.3	3587.4	3702.5	3738.9	3641.9	3557.1	3660.1	3708.6
65°	4302.4	3660.1	3248.0	3272.3	3278.3	3369.2	3526.8	3520.7	3514.7	3545.0	3551.0
67.5°	3114.7	3042.0	2951.1	2926.9	2939.0	3005.6	3163.2	3284.4	3278.3	3205.6	3151.1
70°	2775.4	2672.4	2617.8	2623.9	2575.4	2654.2	2781.4	2860.2	2720.8	2636.0	2599.6
72.5°	2308.8	2278.5	2242.1	2248.2	2151.2	2133.0	1987.6	1987.6	1951.2	1927.0	1969.4
75°	1763.4	1751.3	1769.4	1739.2	1636.1	1527.1	1442.2	1363.4	1242.3	1193.8	1169.5
77.5°	1115.0	1151.4	1193.8	1127.1	1084.7	1005.9	921.1	842.3	745.4	690.8	690.8
80°	757.5	787.8	818.1	805.9	757.5	684.8	618.1	533.3	466.6	424.2	418.1
82.5°	575.7	599.9	642.3	593.9	545.4	484.8	430.2	369.6	309.0	260.6	260.6
85°	206.0	236.3	260.6	284.8	303.0	309.0	266.6	218.2	175.7	139.4	133.3
87.5°	54.5	60.6	66.7	60.6	60.6	60.6	66.7	60.6	54.5	42.4	42.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)