

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: P534421

Luminaire Tested: **GALN-SA9D-830-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534421
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
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-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

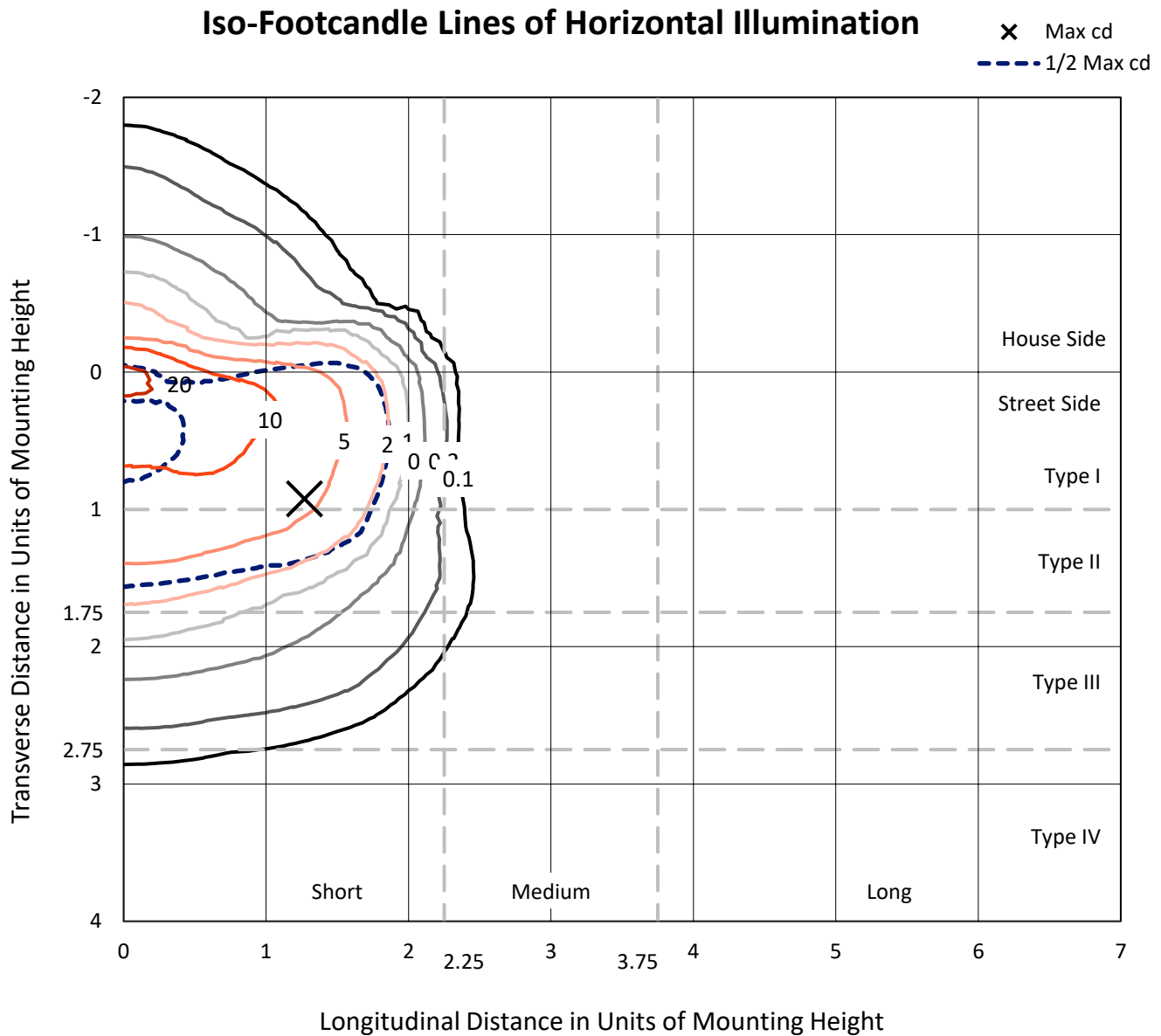
Lumens per Lamp: N/A
Luminaire Lumens: 32590 lumens
Efficiency: N/A
Efficacy: 59.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

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



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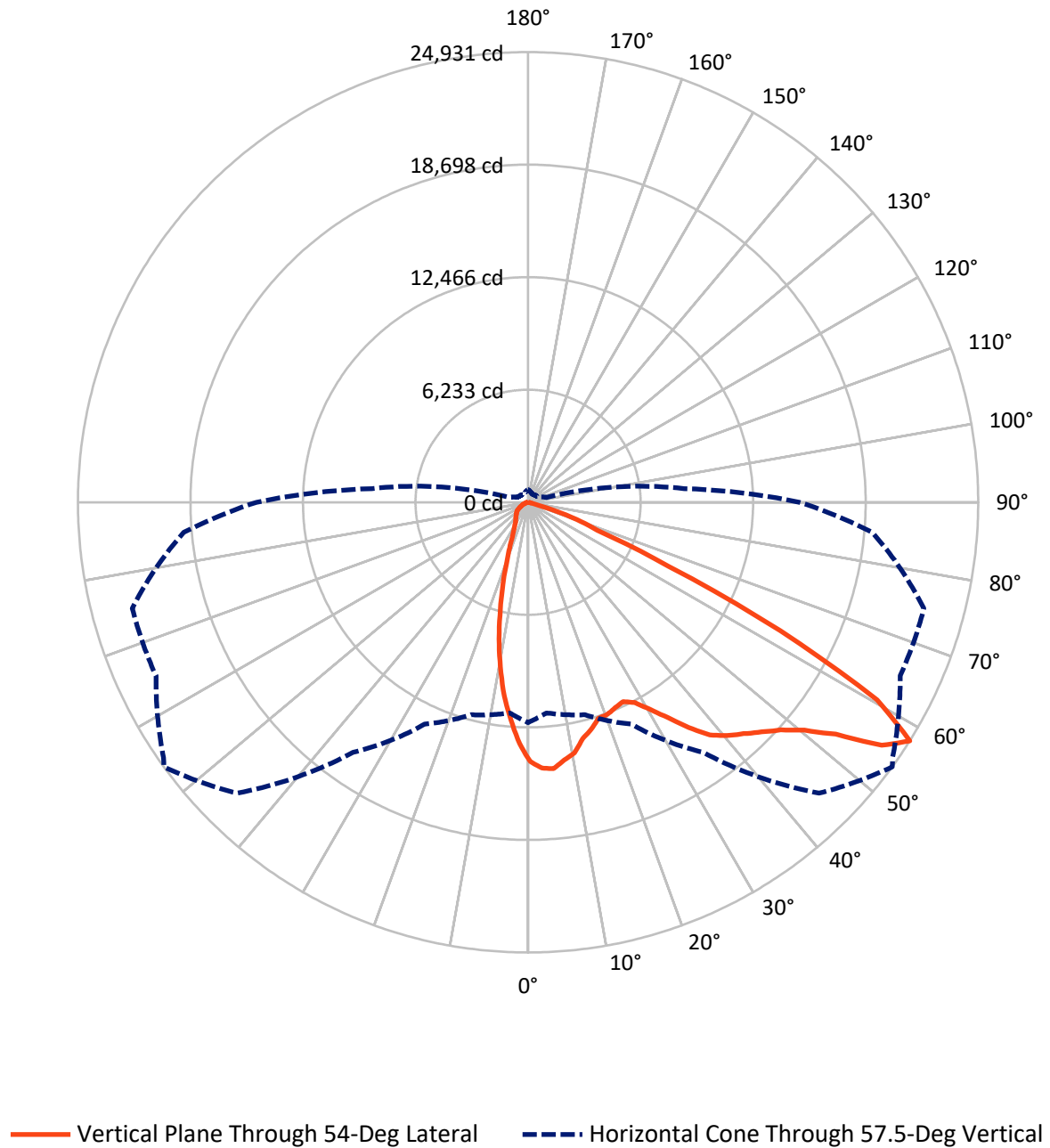


Based on 25 foot mounting height. Maximum calculated value = 23 fc
Type II - Short - N/A

REPORT NUMBER: P534421

CATALOG NUMBER: GALN-SA9D-830-U-SL3-GRSBK

Luminous Intensity Polar Plot



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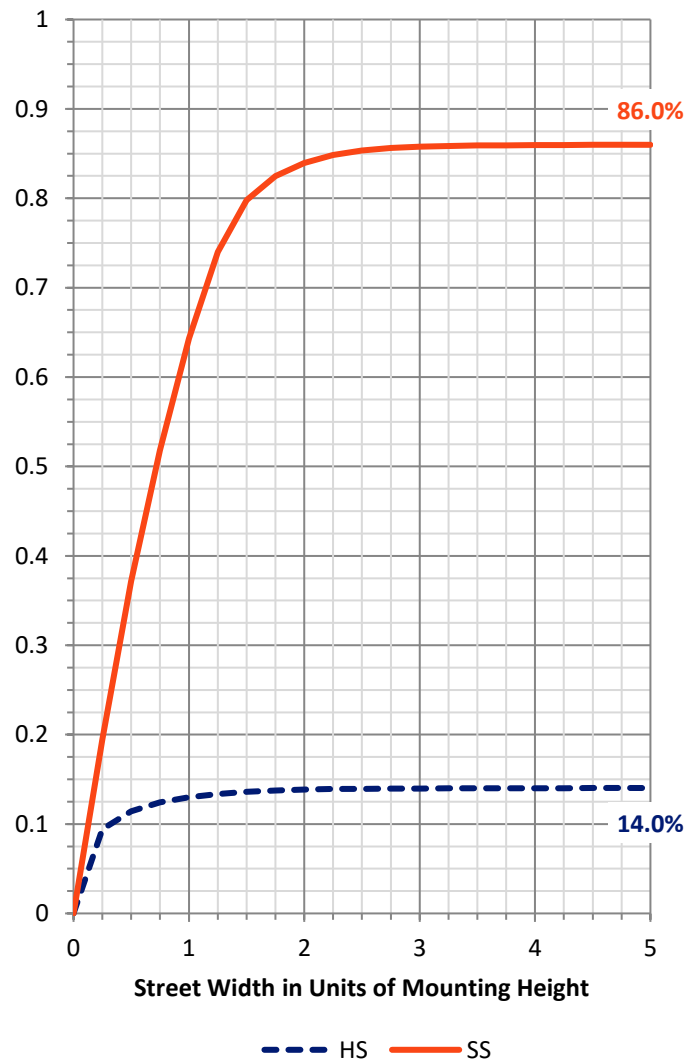
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4605.5	0.0	4605.5
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	27984.5	0.0	27984.5
	% Fixture	85.9	0.0	85.9
Total	Lumens	32590.0	0.0	32590.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1201.4	3.7
10°-20°	2564.9	7.9
20°-30°	3399.0	10.4
30°-40°	4939.7	15.2
40°-50°	7324.9	22.5
50°-60°	9159.5	28.1
60°-70°	3613.0	11.1
70°-80°	359.7	1.1
80°-90°	28.0	0.1
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°	32590.0	100.0
0°-180°	32590.0	100.0

Coefficient of Utilization



REPORT NUMBER: P534421

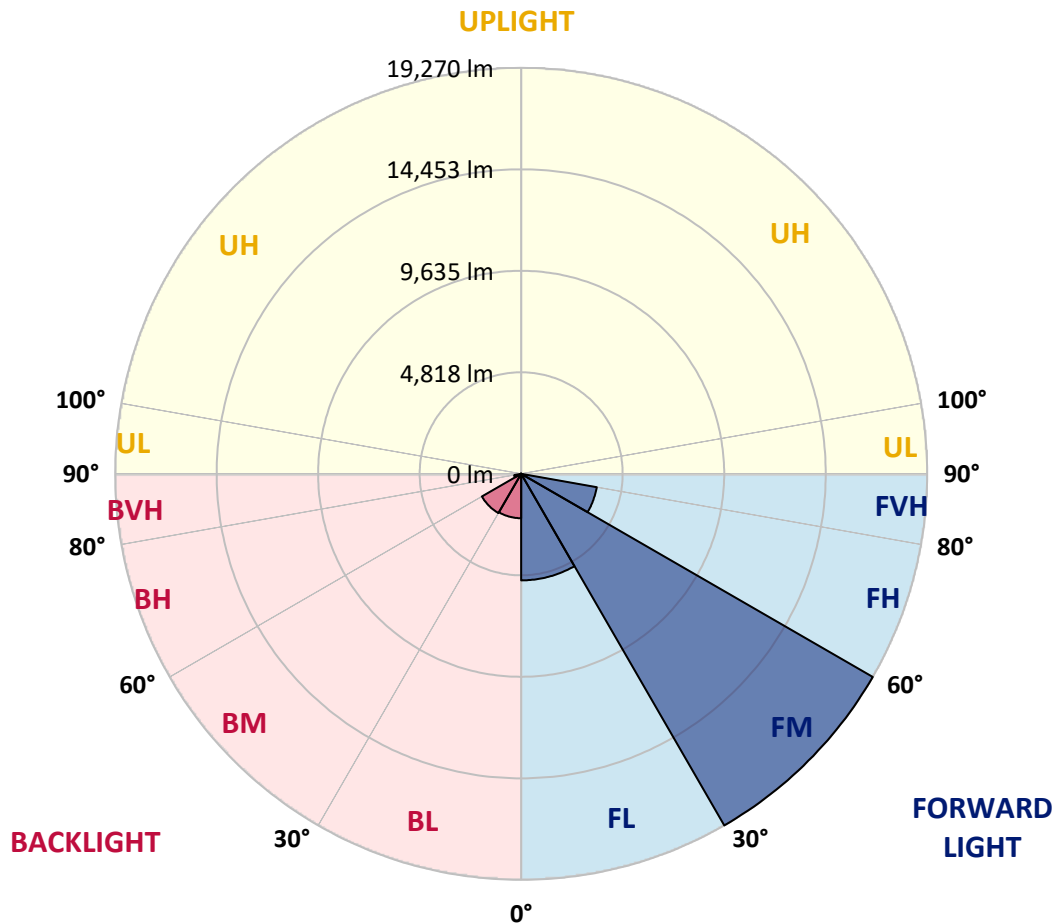
CATALOG NUMBER: GALN-SA9D-830-U-SL3-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5058.9	15.5			
FM	(30°-60°)	19270.4	59.1			
FH	(60°-80°)	3642.5	11.2			G2/5000
FVH	(80°-90°)	12.7	0.0			G1/100
BL	(0°-30°)	2106.3	6.5	B3/2500		
BM	(30°-60°)	2153.7	6.6	B2/2500		
BH	(60°-80°)	330.2	1.0	B1/500		G1/500
BVH	(80°-90°)	15.3	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-G2

Type II Short



REPORT NUMBER: P534421

CATALOG NUMBER: GALN-SA9D-830-U-SL3-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	14356.3	14356.3	14356.3	14356.3	14356.3	14356.3	14356.3	14356.3	14356.3	14356.3	14356.3
2.5°	15192.6	15035.1	15047.2	14992.6	14919.9	14974.5	14738.1	14792.7	14786.6	14465.4	14253.3
5°	14810.8	14980.5	14804.8	14950.2	14810.8	14962.3	14816.9	14707.8	14532.1	14295.7	13901.8
7.5°	14162.4	13998.8	14047.3	14229.1	14259.4	14598.7	14416.9	14556.3	14483.6	14017.0	13477.6
10°	12859.5	12823.1	13065.5	13307.9	13604.9	13968.5	14107.9	14029.1	13974.5	13798.8	13077.7
12.5°	11859.6	11962.6	11956.5	12356.5	12859.5	13065.5	13429.1	13417.0	13720.0	13392.8	12701.9
15°	10908.1	10962.7	11217.2	11465.7	12023.2	12611.0	13059.5	13120.1	13483.7	13253.4	12411.0
17.5°	10326.4	10247.6	10447.6	10744.5	11314.2	12083.8	12580.7	12726.2	13223.1	13174.6	12077.7
20°	9750.7	9750.7	9914.3	10265.8	10786.9	11653.5	12538.3	12495.9	13223.1	13083.7	11720.2
22.5°	9556.7	9653.7	9696.1	9962.8	10580.9	11326.3	12356.5	12435.3	13326.1	13041.3	11562.6
25°	9823.4	9696.1	9708.3	9920.4	10502.1	11168.7	12223.2	12398.9	13514.0	13253.4	11435.4
27.5°	9865.8	9993.1	10029.4	10174.9	10562.7	11217.2	12556.5	12914.0	13980.6	13750.3	11471.7
30°	10235.5	10362.7	10356.7	10605.1	10871.8	11611.1	13301.9	13374.6	14944.2	14374.5	11696.0
32.5°	10683.9	10817.2	10859.7	11150.6	11362.7	12332.3	14210.9	14398.8	15871.4	15356.2	12283.8
35°	11241.5	11193.0	11386.9	11677.8	12132.3	13386.7	15319.9	15635.0	16871.3	16628.9	12889.8
37.5°	11938.4	11877.8	12065.6	12538.3	13156.4	14635.1	16344.0	16550.1	17598.5	17810.6	14010.9
40°	12429.2	12453.5	13023.1	13659.4	14313.9	15822.9	16992.5	17192.5	18107.5	18913.5	14859.3
42.5°	13247.3	13398.8	14083.6	14859.3	15544.1	16713.7	17519.7	17713.6	18343.9	19798.3	16004.7
45°	14435.1	14368.5	15126.0	15992.6	16750.1	17640.9	18143.9	18077.2	18483.2	20677.0	16725.8
47.5°	15962.3	15974.4	16477.4	17216.7	18004.5	18446.9	18840.8	18604.5	18774.1	21604.2	17689.4
50°	17004.6	17095.5	17501.5	18259.0	18652.9	19331.7	19834.6	19689.2	19634.7	22161.7	18295.4
52.5°	17271.2	17543.9	17762.1	18707.5	19628.6	20701.2	21343.6	21652.7	20683.1	22349.6	19065.0
55°	15259.3	15501.7	16271.3	17568.2	19998.3	22870.7	23755.5	23761.6	22052.6	23185.9	19604.4
57.5°	12198.9	11708.1	12180.8	13556.4	16907.6	22779.8	24931.2	24646.4	22737.4	22695.0	19137.7
60°	8435.6	8314.4	8344.7	8890.1	11702.0	18119.6	22216.3	22585.9	20937.6	19671.0	15150.2
62.5°	6684.3	6581.2	6447.9	6387.3	7266.0	11289.9	15671.4	16192.5	14641.2	12756.5	8981.0
65°	5235.9	5175.3	5193.5	5435.9	5429.8	6405.5	8569.0	8356.9	6690.3	4945.0	2824.0
67.5°	3533.0	3623.9	3696.6	4429.9	4805.6	4460.2	4139.0	4017.8	2175.6	915.1	624.2
70°	1987.7	1999.8	2078.6	2769.5	3648.2	3460.3	2854.3	2854.3	1084.8	333.3	357.5
72.5°	1084.8	1048.4	975.7	1193.8	1624.1	1648.3	1272.6	1109.0	321.2	218.2	200.0
75°	527.2	521.2	448.4	369.7	351.5	290.9	224.2	206.0	145.4	139.4	121.2
77.5°	109.1	103.0	54.5	54.5	60.6	66.7	84.8	84.8	103.0	103.0	84.8
80°	0.0	0.0	6.1	24.2	42.4	60.6	72.7	72.7	84.8	84.8	66.7
82.5°	0.0	0.0	6.1	18.2	36.4	54.5	66.7	72.7	84.8	90.9	72.7
85°	0.0	0.0	0.0	12.1	30.3	42.4	36.4	36.4	30.3	24.2	12.1
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: P534421

CATALOG NUMBER: GALN-SA9D-830-U-SL3-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	14356.3	14356.3	14356.3	14356.3	14356.3	14356.3	14356.3	14356.3	14356.3	14356.3	14356.3
2.5°	14144.2	14132.1	13853.3	13695.8	13411.0	13162.5	12962.5	12817.1	12817.1	12726.2	12641.3
5°	13744.3	13641.2	13047.4	12665.6	12126.2	11726.3	11453.6	11241.5	10908.1	10999.0	10641.5
7.5°	13247.3	12986.8	12198.9	11617.2	10871.8	10302.1	9720.4	9205.3	8708.3	8484.1	8605.3
10°	12714.1	12259.5	11199.0	10277.9	9350.7	8308.4	7629.6	6805.5	6296.4	6266.1	6132.8
12.5°	12150.5	11635.4	10344.6	9071.9	7853.9	6599.4	5563.2	4793.5	4448.1	4066.3	4139.0
15°	11726.3	10962.7	9393.1	7859.9	6241.9	4975.3	3933.0	3339.1	3011.9	2921.0	2890.7
17.5°	11265.7	10447.6	8423.5	6569.1	4896.5	3581.5	2830.1	2545.2	2418.0	2418.0	2399.8
20°	10786.9	9865.8	7460.0	5369.2	3672.4	2672.5	2266.5	2175.6	2169.5	2163.4	2163.4
22.5°	10471.8	9199.2	6587.3	4266.3	2769.5	2139.2	1969.5	1933.2	1957.4	2030.1	2030.1
25°	10138.5	8556.8	5623.8	3290.6	2145.3	1836.2	1739.2	1763.5	1824.1	1890.7	1866.5
27.5°	9799.2	8138.7	4714.7	2581.6	1757.4	1605.9	1569.6	1624.1	1690.8	1751.4	1733.2
30°	9720.4	7690.2	3854.2	1957.4	1509.0	1399.9	1424.1	1472.6	1539.3	1563.5	1587.7
32.5°	9841.6	7338.8	3157.3	1605.9	1315.0	1284.7	1284.7	1309.0	1351.4	1405.9	1387.8
35°	10187.0	7138.8	2496.8	1393.8	1206.0	1175.7	1169.6	1193.8	1218.1	1236.3	1218.1
37.5°	10714.2	6981.2	2042.2	1236.3	1133.2	1084.8	1072.6	1066.6	1090.8	1096.9	1109.0
40°	11386.9	7066.1	1733.2	1139.3	1060.5	1006.0	969.6	969.6	969.6	987.8	993.9
42.5°	12114.1	7181.2	1496.8	1084.8	993.9	927.2	890.8	878.7	890.8	915.1	909.0
45°	12877.7	7405.4	1345.3	999.9	933.3	848.4	799.9	787.8	818.1	866.6	860.5
47.5°	13592.8	7726.6	1230.2	945.4	872.7	793.9	733.3	721.1	775.7	842.4	848.4
50°	14307.9	8284.1	1187.8	903.0	830.2	739.3	684.8	672.7	733.3	818.1	836.3
52.5°	15132.0	8884.1	1157.5	848.4	781.8	696.9	636.3	624.2	690.8	799.9	806.0
55°	15671.4	9393.1	1133.2	751.5	690.8	630.2	581.8	575.7	648.4	745.4	769.6
57.5°	15041.1	8684.1	1048.4	654.5	587.8	557.5	515.1	515.1	575.7	666.6	684.8
60°	11405.1	5714.7	745.4	527.2	496.9	478.7	460.6	460.6	509.0	575.7	581.8
62.5°	6678.2	3078.5	478.7	424.2	424.2	406.0	375.7	375.7	424.2	460.6	466.6
65°	1981.6	987.8	387.8	363.6	357.5	327.2	296.9	290.9	327.2	345.4	339.4
67.5°	569.6	454.5	321.2	303.0	296.9	248.5	230.3	224.2	230.3	218.2	212.1
70°	339.4	309.1	248.5	254.5	224.2	181.8	163.6	157.6	145.4	127.3	115.1
72.5°	187.9	187.9	181.8	193.9	157.6	121.2	103.0	84.8	66.7	54.5	48.5
75°	115.1	121.2	127.3	133.3	103.0	78.8	66.7	42.4	24.2	12.1	12.1
77.5°	78.8	84.8	90.9	97.0	84.8	72.7	54.5	30.3	6.1	0.0	0.0
80°	60.6	66.7	78.8	84.8	90.9	97.0	72.7	30.3	6.1	0.0	0.0
82.5°	66.7	72.7	90.9	84.8	84.8	84.8	66.7	30.3	6.1	0.0	0.0
85°	12.1	18.2	30.3	30.3	42.4	54.5	42.4	12.1	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

(END OF REPORT)