

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: P458029

Luminaire Tested: **GALN-SA9B-830-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458029
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-830-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40629 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 364
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

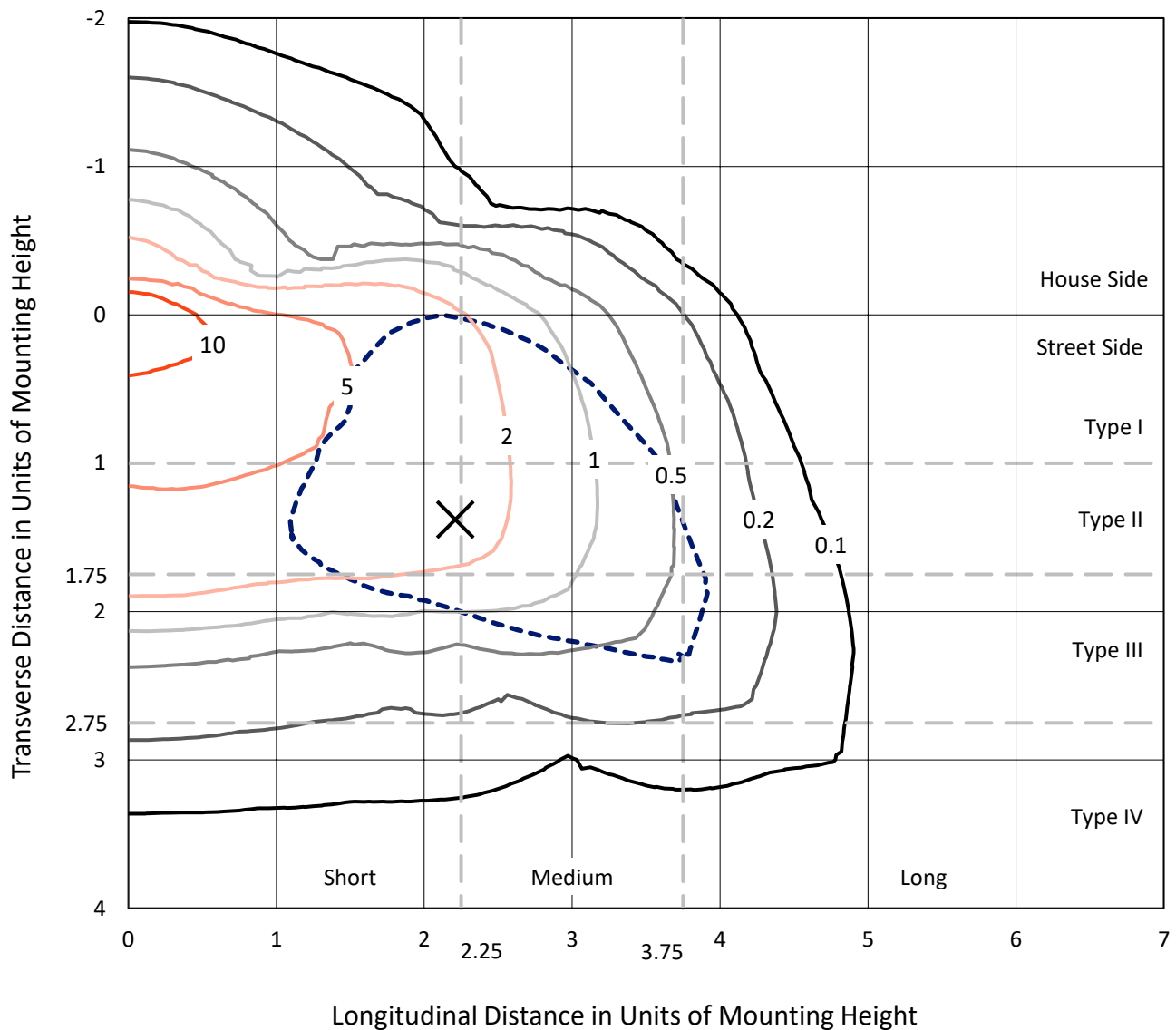


REPORT NUMBER: P458029

CATALOG NUMBER: GALN-SA9B-830-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



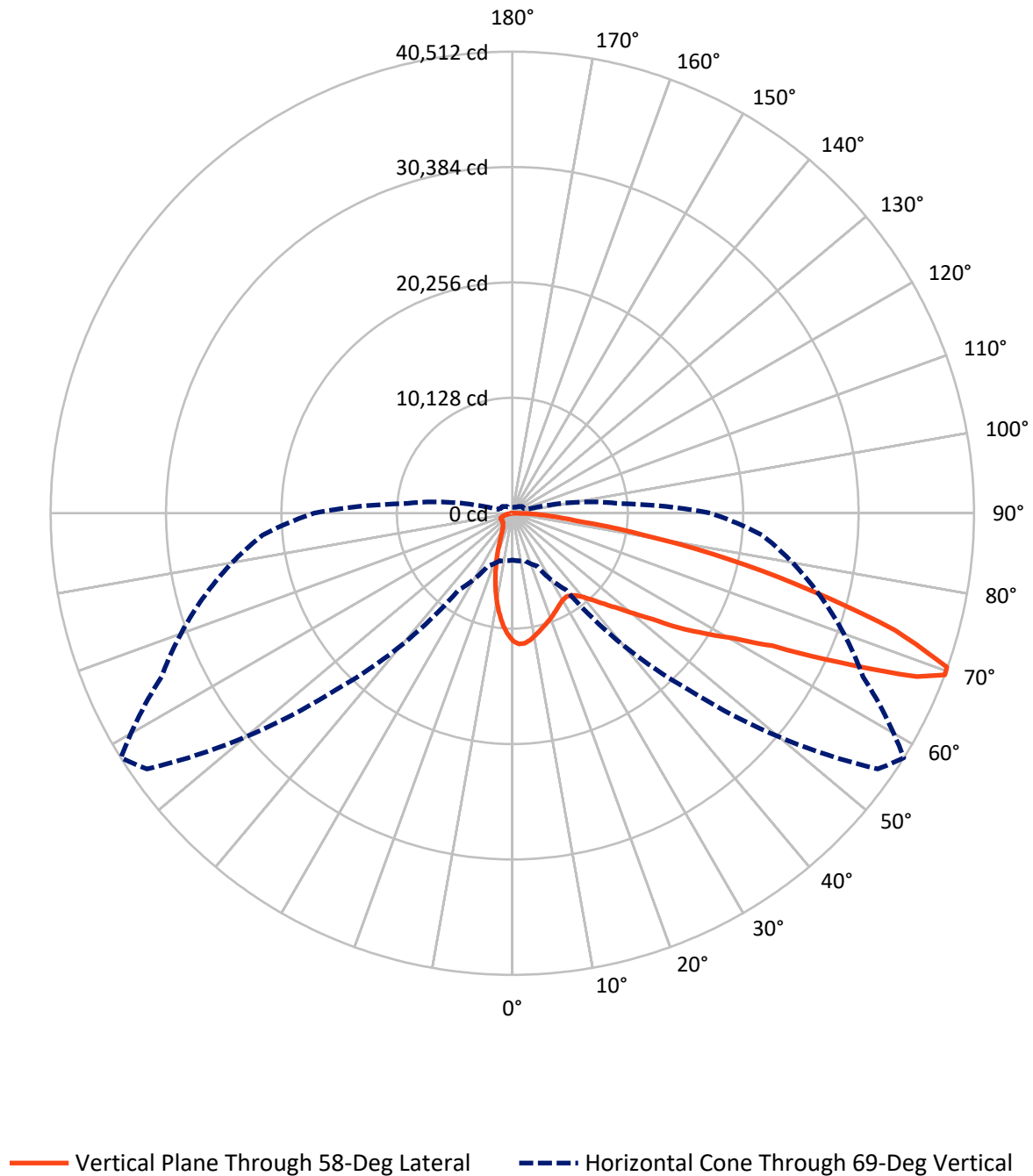
Based on 25 foot mounting height. Maximum calculated value = 18 fc

Type III - Short - N/A

REPORT NUMBER: P458029

CATALOG NUMBER: GALN-SA9B-830-U-SL3

Luminous Intensity Polar Plot



REPORT NUMBER: P458029

CATALOG NUMBER: GALN-SA9B-830-U-SL3

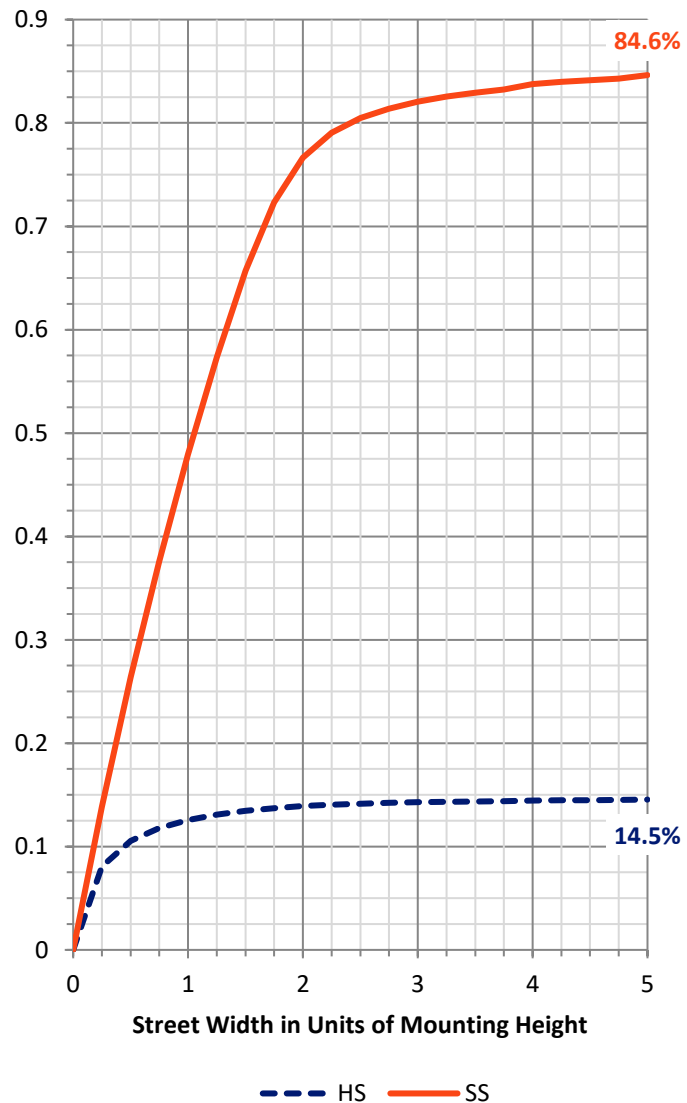
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5954.2	0.0	5954.2
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	34674.8	0.0	34674.8
	% Fixture	85.3	0.0	85.3
Total	Lumens	40629.0	0.0	40629.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	953.5	2.3
10°-20°	2093.7	5.2
20°-30°	2705.1	6.7
30°-40°	3513.4	8.6
40°-50°	5107.9	12.6
50°-60°	8150.6	20.1
60°-70°	10888.2	26.8
70°-80°	6276.6	15.4
80°-90°	940.1	2.3
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°	40629.0	100.0
0°-180°	40629.0	100.0

Coefficient of Utilization



REPORT NUMBER: P458029

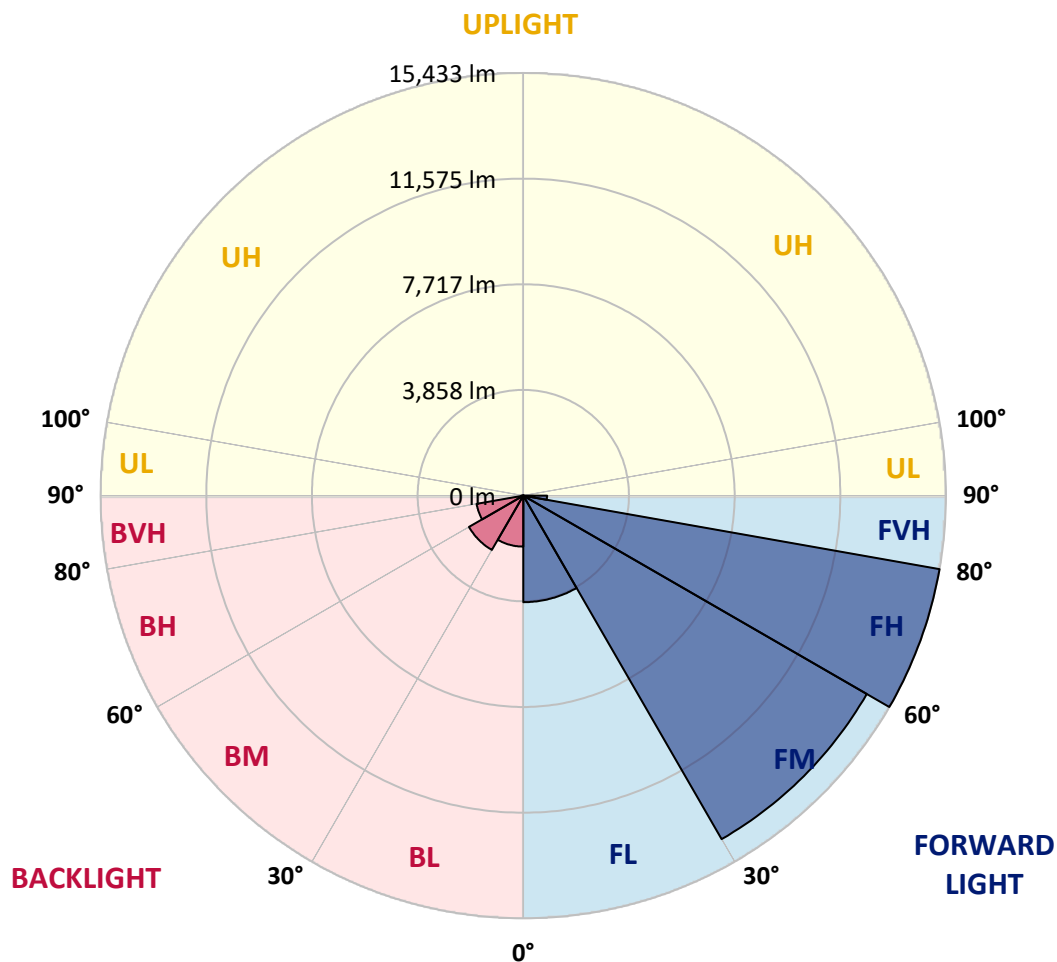
CATALOG NUMBER: GALN-SA9B-830-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3891.2	9.6			
FM	(30°-60°)	14482.1	35.6			
FH	(60°-80°)	15433.4	38.0			G5
FVH	(80°-90°)	868.1	2.1			G5
BL	(0°-30°)	1861.0	4.6	B3/2500		
BM	(30°-60°)	2289.8	5.6	B2/2500		
BH	(60°-80°)	1731.4	4.3	B3/2500		G3/2500
BVH	(80°-90°)	72.0	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





REPORT NUMBER: P458029

CATALOG NUMBER: GALN-SA9B-830-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	11227.5	11227.5	11227.5	11227.5	11227.5	11227.5	11227.5	11227.5	11227.5	11227.5	11227.5
2.5°	11644.4	11676.1	11667.1	11655.7	11637.6	11587.8	11506.2	11492.6	11440.5	11329.4	11191.2
5°	11465.4	11492.6	11494.9	11510.7	11533.4	11524.3	11465.4	11458.6	11381.6	11232.0	11000.9
7.5°	10851.3	10887.6	10966.9	11055.3	11134.6	11209.3	11227.5	11238.8	11191.2	11019.0	10710.9
10°	10160.2	10196.5	10232.8	10364.2	10559.0	10744.8	10898.9	10919.3	10930.6	10772.0	10395.9
12.5°	9394.4	9469.1	9546.2	9741.1	10001.6	10293.9	10565.8	10608.9	10685.9	10565.8	10124.0
15°	8744.1	8821.1	8932.1	9106.6	9421.6	9843.0	10226.0	10296.2	10448.0	10386.8	9870.2
17.5°	8293.2	8320.3	8397.4	8596.8	8936.7	9380.8	9892.9	10033.4	10275.8	10259.9	9652.7
20°	7937.4	7971.4	8019.0	8141.3	8494.8	8963.9	9582.4	9763.7	10092.3	10146.6	9437.4
22.5°	7787.9	7812.8	7806.0	7871.7	8111.9	8583.2	9267.5	9482.7	9929.1	10069.6	9238.0
25°	7796.9	7819.6	7785.6	7769.7	7912.5	8247.8	8938.9	9213.1	9797.7	10017.5	9056.8
27.5°	7948.7	7964.6	7901.2	7837.7	7849.0	8039.4	8667.0	8970.7	9686.7	10040.2	8904.9
30°	8152.7	8182.1	8141.3	8064.3	7980.5	7989.5	8492.5	8791.6	9634.6	10119.5	8832.4
32.5°	8415.5	8442.7	8424.6	8363.4	8254.6	8134.5	8449.5	8725.9	9639.1	10280.3	8816.6
35°	8691.9	8746.3	8775.8	8771.3	8682.9	8474.4	8619.4	8848.3	9747.9	10550.0	8909.5
37.5°	9004.6	9050.0	9176.8	9258.4	9176.8	8934.4	9002.4	9161.0	9988.0	10939.7	9113.4
40°	9308.3	9376.2	9562.0	9815.8	9784.1	9571.1	9587.0	9691.2	10411.8	11519.8	9512.2
42.5°	9625.5	9707.1	10031.1	10407.2	10482.0	10316.6	10359.6	10452.5	11014.5	12324.2	10196.5
45°	10033.4	10130.8	10529.6	10998.6	11293.2	11191.2	11313.6	11358.9	11821.1	13371.0	11098.3
47.5°	10559.0	10672.3	11164.0	11748.6	12165.6	12258.5	12471.4	12444.3	12820.4	14610.4	12267.5
50°	11445.0	11508.4	11973.0	12568.9	13142.2	13561.3	13792.5	13835.5	14059.8	15815.9	13574.9
52.5°	12498.6	12555.3	12890.6	13411.8	14130.1	15018.3	15589.3	15448.8	15503.2	17284.2	15104.4
55°	13683.7	13778.9	13991.9	14338.5	15269.8	16577.2	17723.8	17757.8	17155.0	18689.0	16570.4
57.5°	14601.4	14762.3	15127.1	15621.0	16801.6	18310.6	19851.4	19874.1	19103.7	20189.1	18188.3
60°	14139.1	14329.5	15163.3	16366.5	18811.4	21335.6	22393.8	22264.6	21000.3	21897.5	20161.9
62.5°	12145.2	12179.2	13391.4	15272.1	19430.0	25382.5	26177.8	25631.7	23531.3	24063.7	22167.2
65°	7860.4	8082.4	9043.2	11678.4	17397.5	27628.0	32807.8	31545.7	27079.6	26522.2	23846.2
67.5°	4962.3	4905.6	5304.4	6668.5	11966.2	25649.9	38465.7	38266.3	31720.2	28074.4	23445.1
69°	4114.9	4178.3	4314.3	5111.8	8234.2	21899.8	39134.2	40511.8	33970.2	27952.0	21988.2
70°	3731.9	3761.4	3904.1	4531.8	6353.6	18342.4	38037.5	40450.6	34853.9	27439.9	20932.3
72.5°	2961.5	2959.3	3204.0	3770.4	4749.3	10470.7	31233.0	35119.0	33866.0	25056.2	17295.5
75°	2250.0	2286.3	2555.9	3190.4	4375.4	5721.4	21795.6	27045.6	27047.9	19790.3	10792.4
77.5°	1622.4	1645.0	1960.0	2678.3	4121.7	4638.3	14517.5	19398.3	18235.9	9068.1	3392.0
80°	1062.7	1076.3	1316.5	2120.9	3716.1	4375.4	8608.1	11873.3	8601.3	2406.4	1121.6
82.5°	582.3	650.3	804.4	1373.1	2981.9	4042.3	5231.9	6009.1	3226.6	1071.8	584.6
85°	292.3	310.4	453.2	802.1	1948.7	3344.5	3643.5	3446.4	1665.4	532.5	303.6
87.5°	86.1	108.8	188.1	310.4	790.8	1742.5	2028.0	1819.5	641.2	192.6	63.4
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: P458029

CATALOG NUMBER: GALN-SA9B-830-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11227.5	11227.5	11227.5	11227.5	11227.5	11227.5	11227.5	11227.5	11227.5	11227.5	11227.5
2.5°	11134.6	11093.8	10912.5	10749.4	10599.8	10441.2	10307.5	10189.7	10201.0	10203.3	10083.2
5°	10880.8	10787.9	10443.5	10121.7	9849.8	9505.4	9210.8	9020.5	8925.3	8798.4	8843.8
7.5°	10536.4	10357.4	9879.3	9344.5	8843.8	8397.4	7912.5	7579.4	7366.4	7160.2	7187.4
10°	10180.6	9892.9	9197.2	8490.3	7842.2	7128.5	6509.9	5979.7	5585.4	5438.1	5340.7
12.5°	9815.8	9437.4	8553.7	7613.4	6718.4	5864.1	4987.2	4418.5	3983.4	3752.3	3781.8
15°	9482.7	9022.8	7883.0	6736.5	5574.1	4556.7	3682.1	3140.5	2836.9	2773.4	2809.7
17.5°	9174.6	8571.9	7255.4	5884.5	4527.2	3417.0	2766.6	2460.8	2338.4	2304.4	2302.1
20°	8857.4	8188.9	6550.7	4973.6	3528.0	2648.8	2270.4	2127.7	2105.0	2118.6	2120.9
22.5°	8535.6	7715.3	5825.6	4069.5	2809.7	2166.2	1984.9	1946.4	1964.5	1996.2	2000.8
25°	8238.8	7298.4	5127.7	3276.5	2243.2	1903.3	1815.0	1815.0	1855.8	1903.3	1905.6
27.5°	7994.1	6895.1	4432.1	2601.2	1878.4	1713.0	1683.6	1699.4	1756.1	1792.3	1794.6
30°	7792.4	6519.0	3775.0	2084.6	1651.8	1561.2	1554.4	1581.6	1622.4	1656.4	1658.6
32.5°	7640.6	6188.1	3160.9	1751.5	1495.5	1445.6	1443.4	1463.8	1486.4	1495.5	1504.5
35°	7581.7	5914.0	2599.0	1540.8	1391.3	1359.5	1359.5	1357.3	1366.3	1370.9	1375.4
37.5°	7629.2	5703.2	2163.9	1404.9	1314.2	1291.6	1278.0	1264.4	1259.8	1259.8	1262.1
40°	7830.9	5592.2	1839.9	1316.5	1259.8	1225.8	1200.9	1185.1	1169.2	1173.7	1178.3
42.5°	8259.2	5612.6	1620.1	1257.6	1212.3	1164.7	1128.4	1110.3	1099.0	1112.6	1110.3
45°	8941.2	5816.5	1479.6	1216.8	1164.7	1103.5	1069.5	1051.4	1051.4	1071.8	1078.6
47.5°	9895.1	6206.3	1404.9	1185.1	1128.4	1055.9	1021.9	1008.3	1012.9	1046.8	1049.1
50°	11059.8	6883.8	1391.3	1169.2	1110.3	1021.9	983.4	969.8	981.1	1017.4	1021.9
52.5°	12344.6	7756.1	1457.0	1171.5	1094.4	1001.5	951.7	931.3	942.6	972.1	981.1
55°	13867.2	8848.3	1626.9	1180.5	1071.8	990.2	929.0	883.7	897.3	917.7	920.0
57.5°	15421.6	10226.0	1926.0	1182.8	1053.6	969.8	890.5	831.6	831.6	845.2	852.0
60°	17320.5	11726.0	2320.3	1185.1	1055.9	940.3	838.4	772.7	763.6	770.4	772.7
62.5°	19205.7	12981.3	2386.0	1178.3	1078.6	910.9	781.7	713.8	697.9	695.6	691.1
65°	20037.3	12747.9	1955.5	1146.5	1103.5	892.8	736.4	657.1	629.9	620.9	620.9
67.5°	18682.2	10783.4	1470.6	1103.5	1087.6	874.6	693.4	609.5	577.8	559.7	559.7
69°	17408.8	9591.5	1321.0	1074.0	1046.8	845.2	666.2	584.6	546.1	525.7	518.9
70°	16425.4	8771.3	1257.6	1049.1	1008.3	811.2	645.8	566.5	523.4	500.8	496.2
72.5°	13108.2	6881.5	1101.2	953.9	858.8	682.0	573.3	509.8	469.0	444.1	437.3
75°	7554.5	3729.7	913.2	829.3	691.1	530.2	484.9	444.1	412.4	389.7	382.9
77.5°	2324.8	1441.1	661.6	654.8	507.6	410.1	387.5	371.6	348.9	324.0	319.5
80°	978.9	734.1	448.6	441.8	337.6	285.5	278.7	276.4	267.4	247.0	240.2
82.5°	537.0	414.7	312.7	271.9	203.9	165.4	172.2	174.5	167.7	147.3	133.7
85°	262.8	226.6	151.8	122.4	92.9	58.9	56.6	68.0	63.4	45.3	49.8
87.5°	52.1	63.4	40.8	18.1	9.1	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)