

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: P450839

Luminaire Tested: **GALN-SA1C-830-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450839
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1C-830-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5533 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 57
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

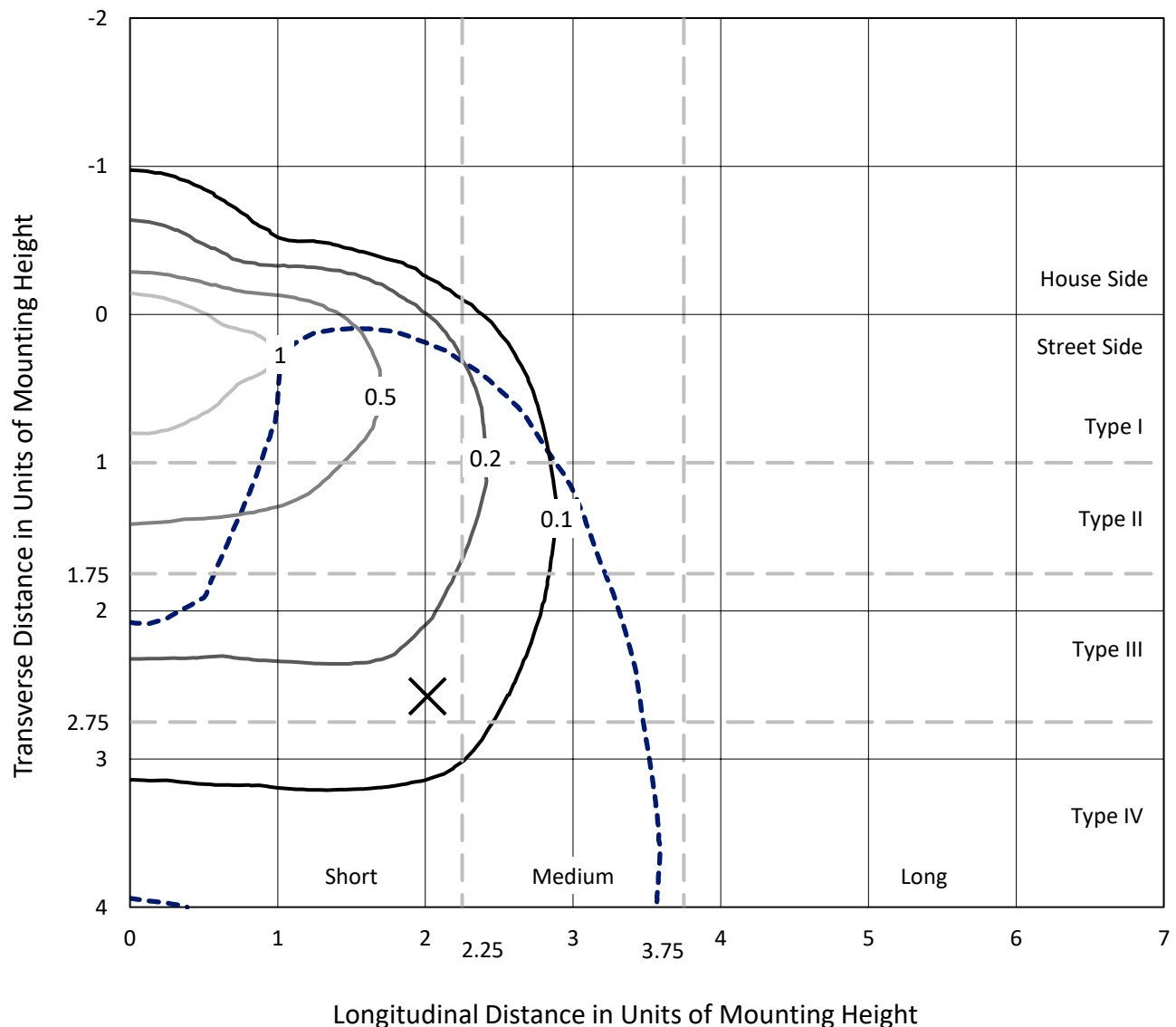


REPORT NUMBER: P450839

CATALOG NUMBER: GALN-SA1C-830-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

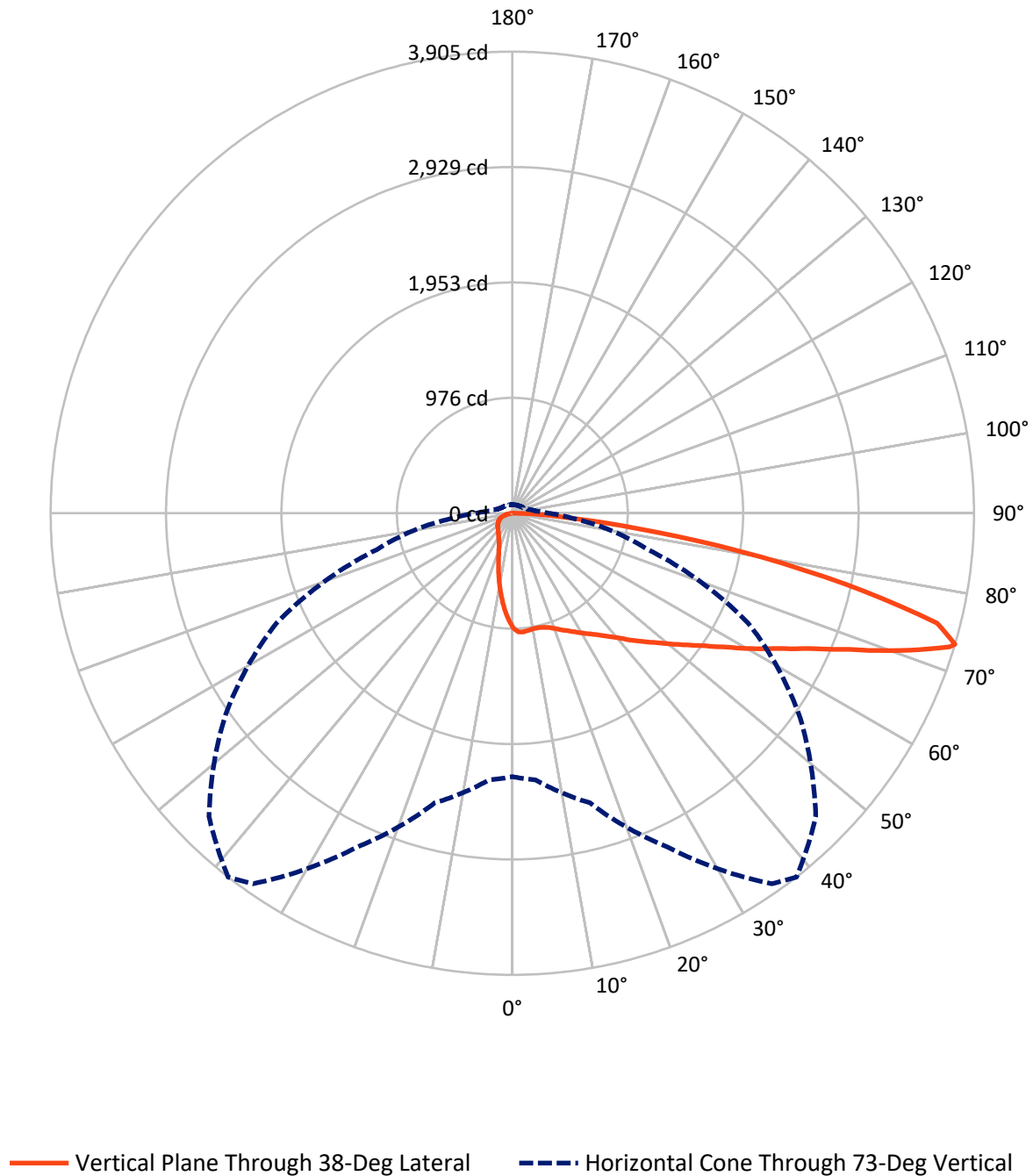


Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P450839

CATALOG NUMBER: GALN-SA1C-830-U-SL4

Luminous Intensity Polar Plot



REPORT NUMBER: P450839

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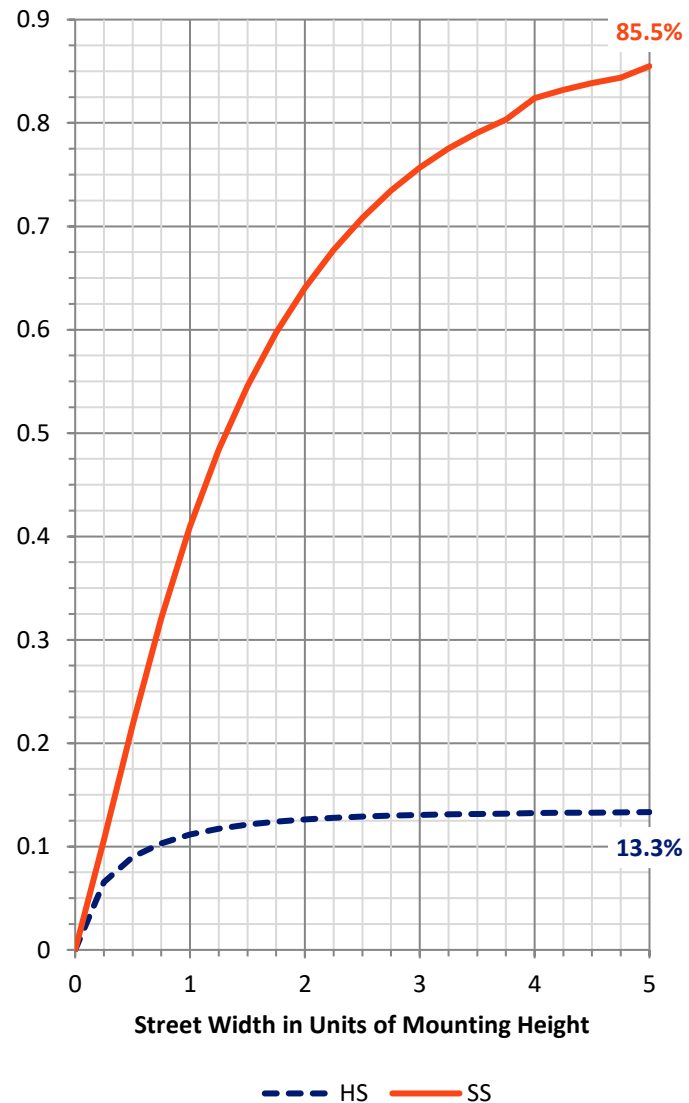
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	743.8	0.0	743.8
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	4789.2	0.0	4789.2
	% Fixture	86.6	0.0	86.6
Total	Lumens	5533.0	0.0	5533.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.8	1.5
10°-20°	217.6	3.9
20°-30°	338.8	6.1
30°-40°	497.0	9.0
40°-50°	737.2	13.3
50°-60°	1044.5	18.9
60°-70°	1324.9	23.9
70°-80°	1102.9	19.9
80°-90°	185.3	3.3
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°	5533.0	100.0
0°-180°	5533.0	100.0

Coefficient of Utilization



REPORT NUMBER: P450839

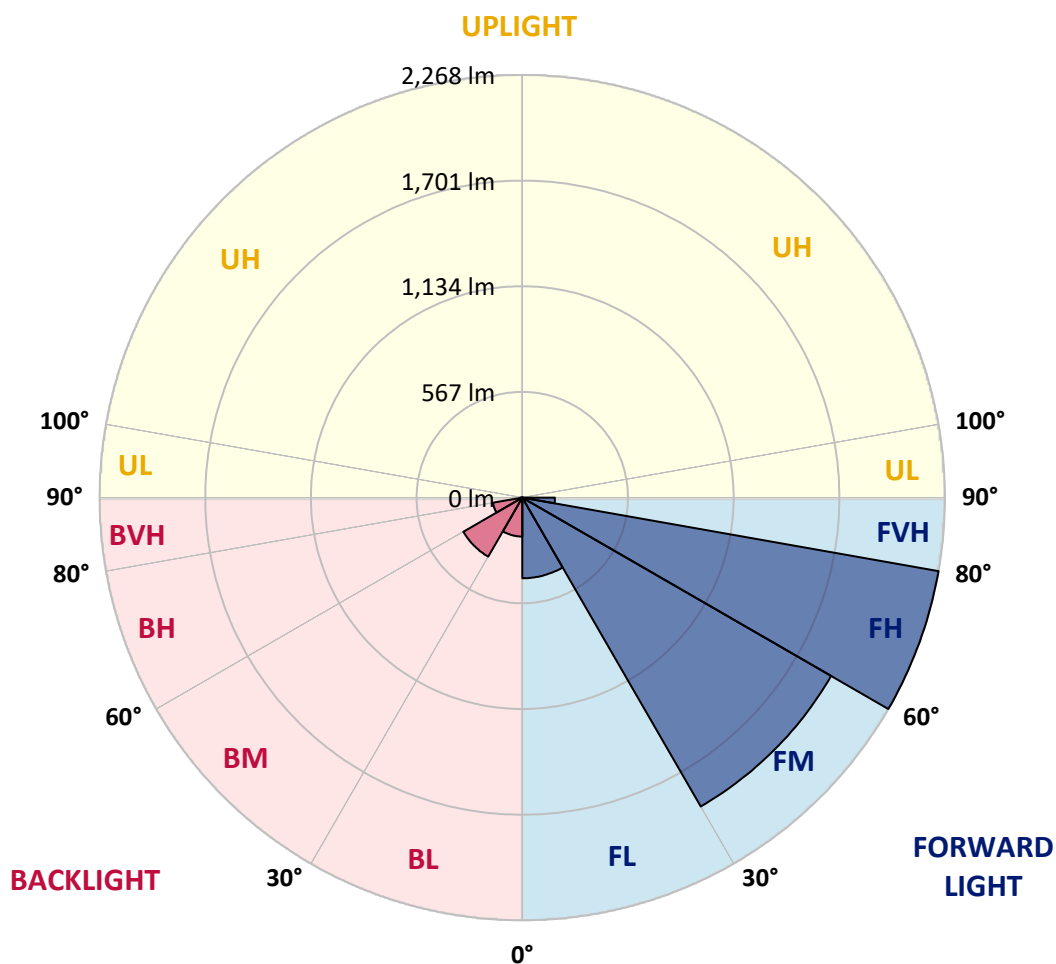
CATALOG NUMBER: GALN-SA1C-830-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	432.5	7.8			
FM	(30°-60°)	1913.5	34.6			
FH	(60°-80°)	2268.0	41.0			G2/5000
FVH	(80°-90°)	175.3	3.2			G2/225
BL	(0°-30°)	208.7	3.8	B1/500		
BM	(30°-60°)	365.2	6.6	B1/1000		
BH	(60°-80°)	159.9	2.9	B1/500		G1/500
BVH	(80°-90°)	10.0	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





REPORT NUMBER: P450839

CATALOG NUMBER: GALN-SA1C-830-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	972.1	972.1	972.1	972.1	972.1	972.1	972.1	972.1	972.1	972.1	972.1
2.5°	1011.1	1016.1	1013.6	1010.2	1008.0	1005.8	1002.7	993.6	986.4	978.6	966.4
5°	1018.6	1021.7	1019.5	1015.2	1010.2	1008.0	1002.1	990.2	978.6	965.5	947.4
7.5°	1014.2	1015.5	1013.0	1007.7	1003.3	999.2	992.4	979.2	965.2	949.2	925.5
10°	998.6	1003.3	1003.3	998.9	994.6	992.4	985.5	973.0	960.2	942.1	913.9
12.5°	985.8	990.8	994.9	993.6	993.3	993.3	988.0	978.6	963.6	946.4	913.0
15°	977.1	983.0	991.7	996.7	999.9	1000.8	998.6	990.5	975.2	955.2	916.7
17.5°	975.2	982.4	998.3	1009.2	1017.4	1017.0	1016.4	1005.2	988.3	967.7	921.4
20°	983.6	993.0	1015.2	1032.4	1044.2	1042.0	1038.6	1023.9	1004.2	981.1	925.8
22.5°	1008.9	1018.6	1043.0	1061.7	1073.3	1073.3	1063.0	1043.6	1022.7	996.7	931.7
25°	1045.2	1055.8	1081.7	1100.8	1106.1	1102.0	1091.7	1068.3	1044.2	1019.2	944.2
27.5°	1089.5	1102.3	1126.4	1142.3	1140.8	1137.7	1127.0	1097.0	1073.0	1050.2	965.5
30°	1144.8	1154.2	1179.2	1183.0	1177.3	1176.7	1161.7	1131.7	1109.2	1091.7	995.8
32.5°	1197.0	1205.5	1225.5	1227.0	1217.0	1218.3	1204.2	1176.7	1163.9	1157.7	1046.7
35°	1252.3	1256.7	1273.9	1272.0	1265.5	1264.5	1258.9	1232.6	1236.7	1248.0	1118.9
37.5°	1298.6	1307.3	1317.0	1318.6	1318.3	1321.4	1325.1	1312.6	1336.1	1371.4	1213.6
40°	1341.1	1348.6	1362.9	1367.9	1380.1	1386.4	1399.2	1399.5	1453.6	1511.7	1330.1
42.5°	1369.8	1382.6	1409.5	1418.6	1448.2	1467.0	1486.0	1506.4	1584.8	1659.5	1467.6
45°	1394.8	1411.7	1456.4	1484.5	1524.8	1547.6	1587.9	1630.4	1743.2	1841.0	1607.3
47.5°	1432.6	1447.6	1498.9	1548.5	1609.5	1635.7	1696.0	1759.4	1906.9	2014.1	1741.0
50°	1485.1	1494.2	1546.4	1627.3	1705.1	1738.8	1818.5	1910.1	2081.9	2185.0	1858.5
52.5°	1552.3	1556.0	1597.6	1705.4	1807.9	1849.7	1955.4	2062.2	2235.0	2333.4	1951.6
55°	1631.7	1625.4	1657.9	1788.2	1925.4	1980.0	2093.5	2216.3	2407.2	2453.4	2019.4
57.5°	1710.1	1700.4	1726.3	1888.8	2070.3	2136.3	2268.4	2375.0	2560.9	2565.6	2066.9
60°	1793.2	1786.0	1816.9	2006.9	2248.1	2326.2	2448.4	2539.7	2709.6	2643.7	2074.4
62.5°	1878.5	1866.9	1911.0	2139.7	2448.4	2519.3	2637.8	2714.6	2855.5	2672.8	2002.2
65°	1961.3	1956.0	2024.1	2297.5	2676.5	2757.1	2872.1	2924.3	2972.4	2629.0	1823.2
67.5°	2049.4	2060.0	2168.8	2508.1	2974.0	3075.2	3199.2	3150.2	3005.8	2421.9	1535.4
70°	2183.8	2190.6	2358.7	2784.0	3357.4	3479.5	3539.5	3230.5	2844.6	2028.5	1154.2
72.5°	2241.6	2271.9	2528.4	3073.6	3792.9	3867.6	3653.9	3051.5	2369.7	1377.9	606.5
73°	2228.8	2265.0	2536.2	3117.7	3827.0	3905.4	3629.5	2959.3	2202.8	1186.7	519.9
75°	2069.1	2113.8	2434.7	3080.8	3760.7	3713.9	3237.7	2522.2	1488.5	539.6	236.8
77.5°	1632.6	1645.4	1929.1	2487.8	2961.5	2874.6	2423.1	1576.3	608.0	200.6	134.4
80°	819.0	866.1	1087.4	1425.1	1980.4	1951.9	1529.5	745.5	253.4	117.8	89.1
82.5°	394.0	427.4	529.6	694.9	1094.2	1068.3	757.4	407.4	160.9	68.7	52.5
85°	253.7	278.7	337.1	331.5	449.9	429.6	340.3	308.4	95.3	35.9	36.6
87.5°	167.5	183.4	220.0	175.9	163.7	148.1	150.3	173.7	18.7	13.7	5.0
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: P450839

CATALOG NUMBER: GALN-SA1C-830-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	972.1	972.1	972.1	972.1	972.1	972.1	972.1	972.1	972.1	972.1	972.1
2.5°	961.4	957.4	943.9	930.8	918.3	906.4	898.6	888.3	881.4	883.3	886.1
5°	937.4	928.3	904.6	881.4	859.6	833.6	812.7	795.8	783.0	778.3	777.4
7.5°	912.1	896.8	862.7	823.0	785.8	753.6	716.5	698.0	676.5	669.0	666.5
10°	896.8	876.1	828.3	773.0	717.1	663.7	623.4	590.5	560.9	555.2	552.4
12.5°	892.4	865.2	800.8	729.6	655.2	589.6	529.9	486.8	458.1	451.5	441.8
15°	889.9	856.1	775.2	685.8	591.5	511.5	448.7	398.4	372.1	354.6	355.0
17.5°	887.7	845.8	746.5	638.0	536.5	444.3	374.9	329.6	305.6	296.2	295.3
20°	884.6	833.6	713.3	587.7	473.7	383.1	320.3	286.5	270.3	262.5	262.2
22.5°	883.3	821.8	680.8	536.5	418.1	335.9	284.0	260.3	250.0	244.7	244.7
25°	886.4	813.3	646.8	487.7	368.7	295.6	259.0	242.8	236.8	234.0	233.1
27.5°	896.1	809.6	613.0	439.0	323.4	268.1	242.2	230.9	226.5	224.3	224.7
30°	914.6	809.3	579.9	390.9	289.6	247.2	228.7	220.9	217.5	216.2	215.9
32.5°	944.2	816.1	547.4	351.2	261.2	229.7	216.2	210.6	209.0	208.1	207.8
35°	994.6	835.5	515.2	315.0	239.3	214.0	204.3	201.5	199.3	200.3	200.6
37.5°	1062.4	868.9	484.6	286.5	222.8	202.5	194.3	191.8	190.6	191.5	192.5
40°	1153.3	917.1	459.0	263.7	210.9	192.8	185.6	183.4	182.2	183.7	184.0
42.5°	1253.6	972.7	437.8	245.9	201.2	184.7	177.8	175.3	174.4	175.3	175.6
45°	1356.7	1037.4	426.8	233.1	193.1	178.7	171.5	168.7	166.5	165.9	166.9
47.5°	1458.2	1093.6	426.5	225.3	186.5	173.4	165.6	162.5	159.7	158.1	157.8
50°	1541.0	1138.3	434.0	221.8	180.9	167.5	159.7	156.5	152.8	149.7	150.3
52.5°	1603.5	1167.3	437.4	220.3	177.8	161.2	153.4	150.6	146.2	142.2	142.2
55°	1643.8	1174.2	429.0	218.7	175.3	154.7	146.2	143.7	139.4	135.3	135.3
57.5°	1657.6	1153.0	398.7	215.0	172.8	149.0	139.0	136.9	133.4	129.4	128.7
60°	1625.7	1081.1	345.6	203.7	167.8	143.1	131.2	130.3	129.0	125.6	125.3
62.5°	1502.9	928.6	287.8	189.0	159.4	136.9	124.0	125.6	126.5	124.7	124.4
65°	1298.6	754.0	245.9	168.7	148.1	128.1	116.2	120.3	122.8	122.8	122.2
67.5°	1053.3	579.0	207.2	151.2	134.0	116.2	107.5	110.6	112.5	111.9	113.4
70°	748.6	392.1	168.7	131.2	116.2	102.8	96.2	96.2	95.0	94.4	94.4
72.5°	363.1	224.0	136.9	109.7	99.0	87.8	82.5	80.3	77.8	77.5	75.9
73°	303.4	200.9	130.6	105.6	95.0	85.6	79.7	76.2	74.7	73.4	73.1
75°	184.7	152.5	109.0	89.1	80.9	73.7	68.4	65.3	63.7	62.8	62.5
77.5°	121.5	113.7	84.7	68.1	61.9	57.5	55.3	52.2	51.2	50.0	50.0
80°	90.6	86.9	60.6	48.1	44.4	40.6	40.0	39.4	36.9	35.3	34.7
82.5°	58.4	61.9	41.2	32.2	28.1	25.0	25.3	26.2	23.7	21.6	20.9
85°	41.6	44.7	25.0	14.7	11.9	10.3	11.6	10.3	10.6	8.4	6.9
87.5°	6.9	11.9	4.4	1.9	0.9	0.6	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)