

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: P522693

Luminaire Tested: **GALN-SA3A-830-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522693
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-830-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10856 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 93
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

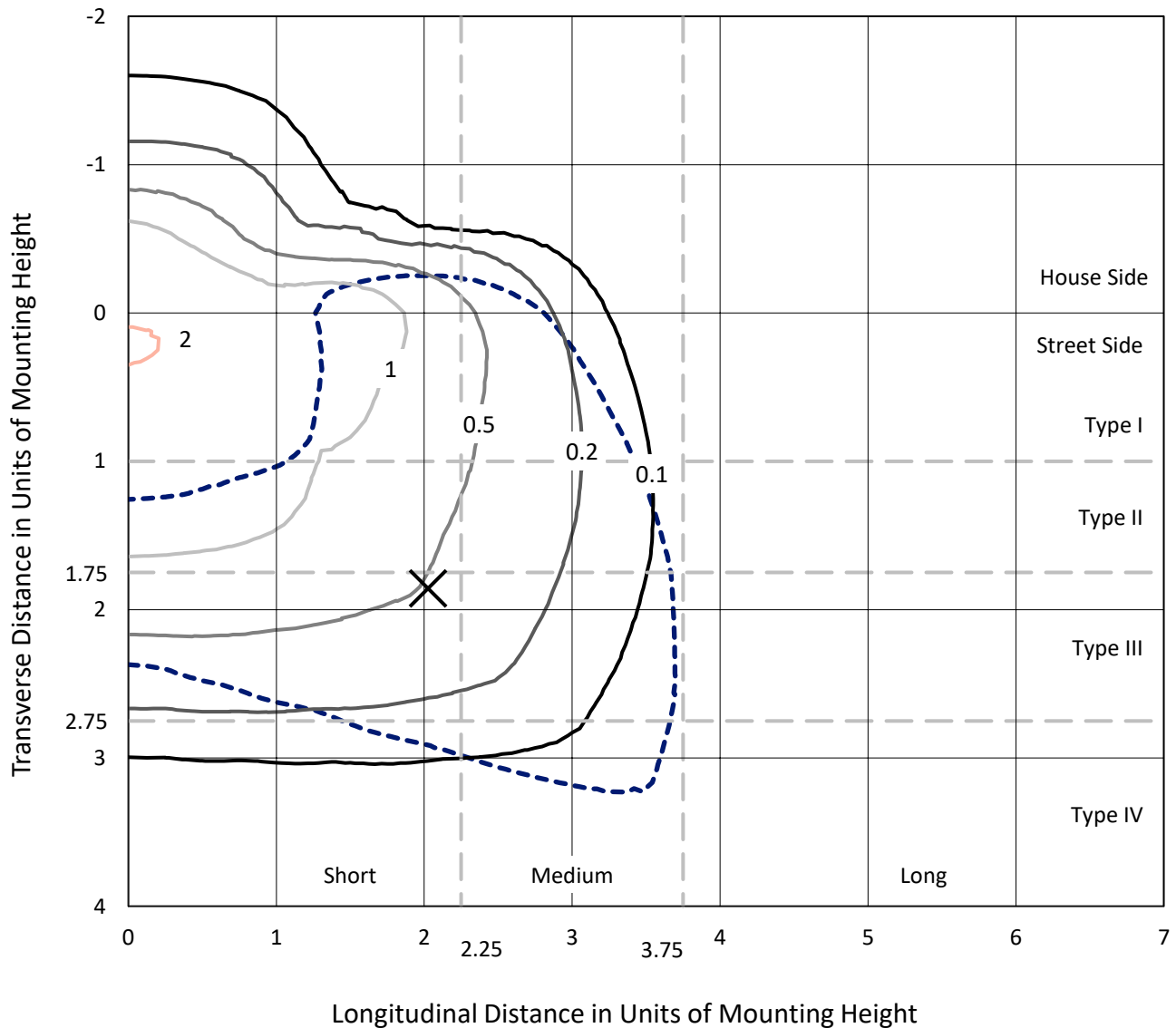


REPORT NUMBER: P522693

CATALOG NUMBER: GALN-SA3A-830-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

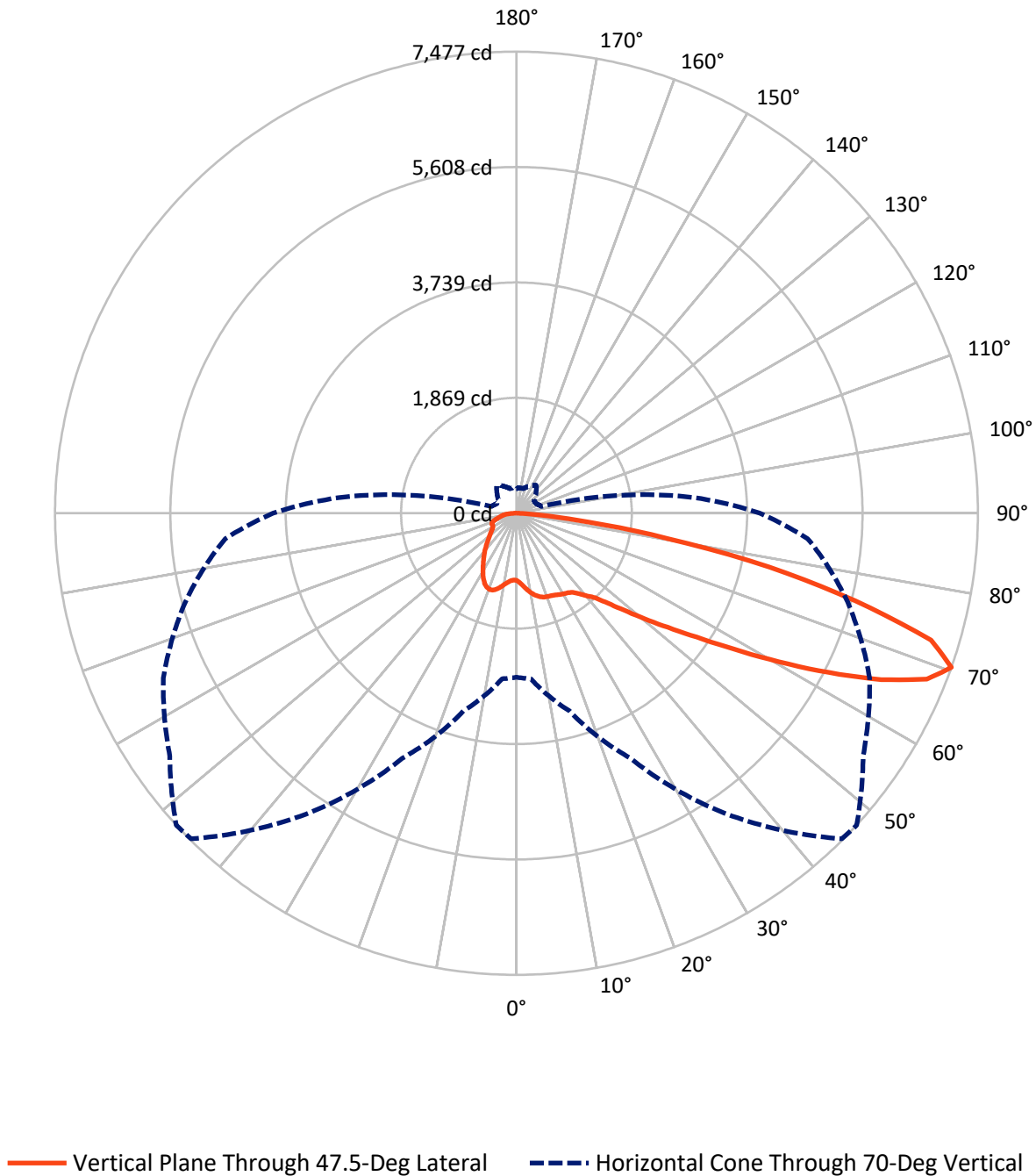


Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
Type IV - Short - N/A

REPORT NUMBER: P522693

CATALOG NUMBER: GALN-SA3A-830-U-T4W

Luminous Intensity Polar Plot



REPORT NUMBER: P522693

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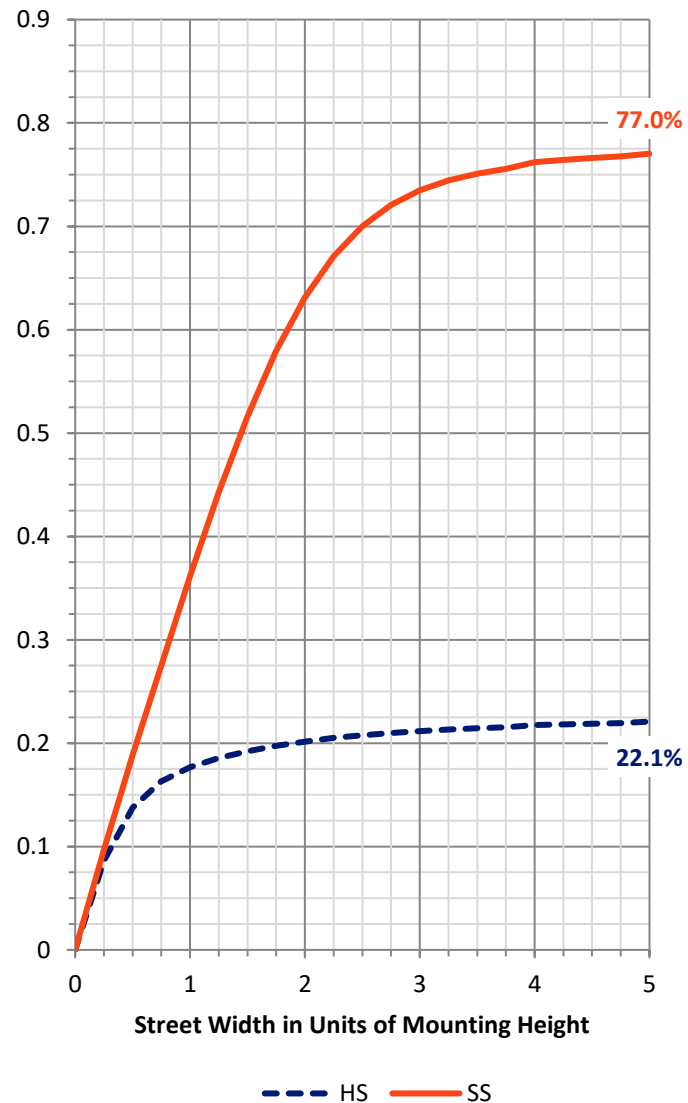
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2458.0	0.0	2458.0
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	8398.0	0.0	8398.0
	% Fixture	77.4	0.0	77.4
Total	Lumens	10856.0	0.0	10856.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.3	1.0
10°-20°	375.6	3.5
20°-30°	624.5	5.8
30°-40°	885.2	8.2
40°-50°	1306.7	12.0
50°-60°	2263.3	20.8
60°-70°	3197.0	29.4
70°-80°	1837.8	16.9
80°-90°	253.6	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°	10856.0	100.0
0°-180°	10856.0	100.0

Coefficient of Utilization



REPORT NUMBER: P522693

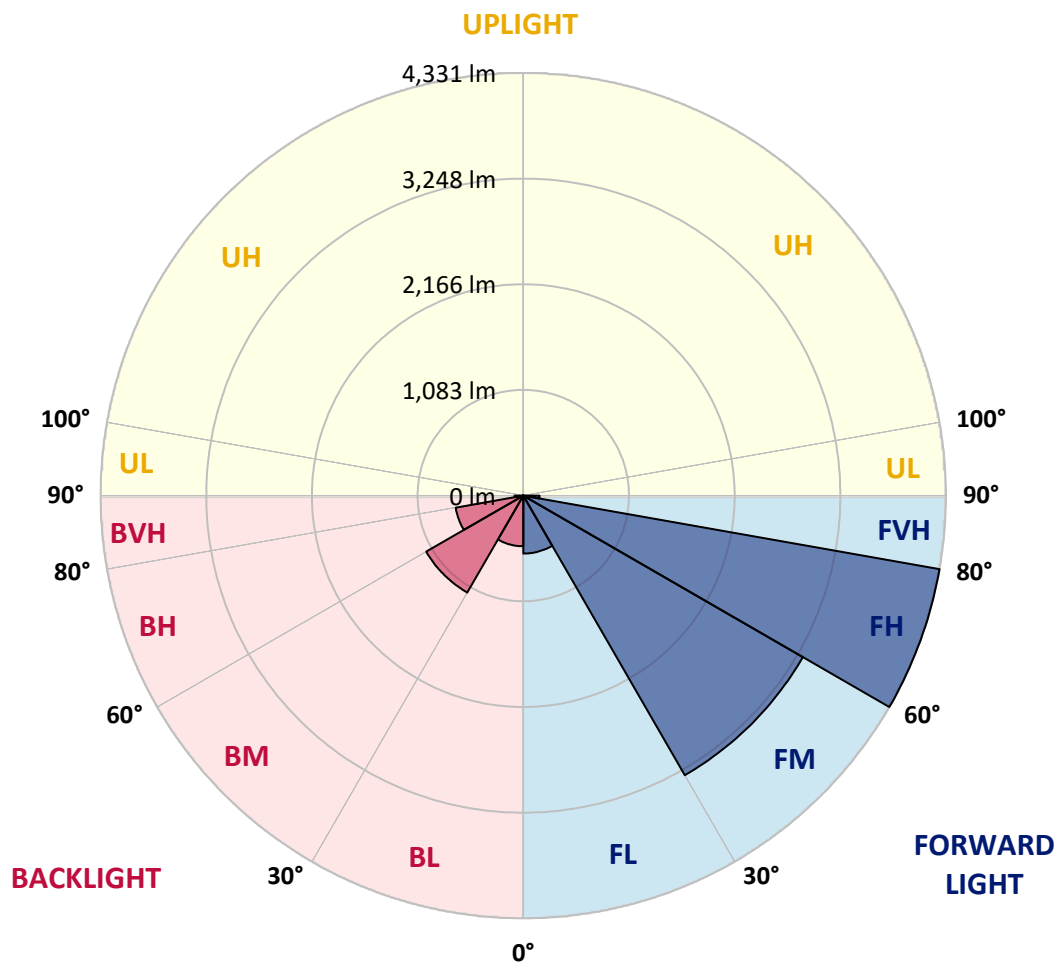
CATALOG NUMBER: GALN-SA3A-830-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	593.6	5.5			
FM	(30°-60°)	3307.6	30.5			
FH	(60°-80°)	4331.1	39.9			G2/5000
FVH	(80°-90°)	165.6	1.5			G2/225
BL	(0°-30°)	518.8	4.8	B2/1000		
BM	(30°-60°)	1147.6	10.6	B2/2500		
BH	(60°-80°)	703.7	6.5	B2/1000		G2/1000
BVH	(80°-90°)	87.9	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short





REPORT NUMBER: P522693

CATALOG NUMBER: GALN-SA3A-830-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	1089.8	1089.8	1089.8	1089.8	1089.8	1089.8	1089.8	1089.8	1089.8	1089.8	1089.8
2.5°	1160.1	1156.0	1155.5	1146.7	1142.1	1133.4	1129.9	1121.8	1111.9	1102.0	1092.7
5°	1251.3	1251.3	1247.2	1235.0	1215.9	1196.1	1187.4	1171.7	1143.8	1121.2	1102.0
7.5°	1344.8	1346.0	1337.9	1319.9	1292.6	1260.6	1252.5	1229.2	1189.7	1156.6	1128.2
10°	1425.6	1425.6	1414.5	1390.1	1355.9	1321.0	1312.9	1286.7	1242.6	1201.3	1164.2
12.5°	1487.2	1487.2	1472.6	1440.7	1403.5	1372.1	1362.8	1337.9	1296.6	1250.7	1203.7
15°	1527.2	1524.3	1508.1	1472.1	1436.0	1408.7	1402.3	1381.4	1343.7	1297.2	1244.3
17.5°	1529.0	1527.8	1512.1	1481.9	1450.6	1432.0	1427.9	1414.0	1384.3	1340.2	1284.4
20°	1495.3	1497.6	1487.2	1465.7	1450.6	1442.4	1440.7	1436.0	1415.1	1373.9	1318.1
22.5°	1459.3	1463.3	1453.5	1441.9	1440.7	1448.8	1450.0	1451.1	1437.8	1397.7	1346.6
25°	1450.6	1453.5	1443.6	1433.1	1439.5	1461.0	1465.7	1470.3	1459.9	1426.2	1380.3
27.5°	1494.7	1492.4	1473.2	1450.6	1454.6	1483.7	1490.1	1495.3	1490.1	1461.0	1422.1
30°	1619.6	1612.1	1573.7	1507.5	1486.6	1506.9	1513.3	1527.8	1527.8	1506.3	1467.4
32.5°	1828.7	1814.2	1743.9	1613.8	1541.2	1529.0	1535.4	1559.2	1571.4	1554.6	1512.1
35°	2082.6	2067.5	1967.0	1792.1	1641.1	1573.1	1571.4	1598.1	1630.7	1592.9	1537.7
37.5°	2337.6	2321.9	2201.1	2004.8	1786.9	1666.1	1655.6	1664.9	1678.9	1609.7	1573.1
40°	2592.7	2574.1	2468.3	2242.4	1965.3	1789.2	1761.9	1720.1	1714.3	1664.9	1641.7
42.5°	2845.4	2828.5	2775.1	2509.0	2179.0	1909.5	1867.7	1795.6	1817.7	1788.1	1767.7
45°	3100.4	3101.5	3044.6	2808.2	2437.0	2131.4	2075.1	1962.4	2014.6	2003.6	2015.2
47.5°	3326.4	3323.5	3303.1	3098.6	2757.1	2417.2	2344.6	2213.9	2303.4	2344.0	2432.9
50°	3545.4	3543.6	3544.8	3428.0	3128.9	2757.1	2676.9	2539.8	2741.4	2882.5	3041.7
52.5°	3859.1	3868.9	3798.7	3767.9	3580.8	3158.5	3070.2	2928.4	3259.0	3481.5	3792.3
55°	4173.9	4165.8	4110.6	4142.6	4053.7	3633.7	3541.3	3428.6	3835.3	4078.7	4545.7
57.5°	4359.2	4362.2	4418.5	4574.8	4637.5	4226.2	4142.6	4055.4	4483.0	4655.5	5216.1
60°	4526.0	4539.3	4701.4	4996.5	5166.7	4954.1	4879.8	4794.9	5077.3	5145.8	5798.2
62.5°	4578.3	4619.5	4902.4	5343.9	5682.6	5775.5	5683.2	5496.1	5643.1	5616.4	6192.6
65°	4317.4	4373.8	4880.9	5474.0	6143.3	6555.1	6496.5	6149.1	6125.3	5964.3	6257.1
67.5°	3630.8	3687.1	4338.3	5201.0	6333.8	7230.2	7171.5	6625.4	6418.0	5996.9	5769.1
70°	2656.6	2692.0	3314.7	4379.0	5951.0	7456.7	7477.1	6857.8	6313.5	5554.8	4736.8
72.5°	1530.7	1609.2	2045.4	3080.6	4861.7	6883.9	7025.1	6374.5	5652.4	4634.0	3311.8
75°	658.2	659.9	945.7	1699.2	3292.7	5533.3	5669.8	5284.1	4438.8	3204.4	1768.3
77.5°	313.1	318.9	415.9	758.7	1812.5	3823.1	4191.4	3733.0	2839.0	1539.4	668.1
80°	203.3	207.4	254.4	376.4	888.8	2216.8	2473.6	2153.5	1252.5	550.1	288.1
82.5°	123.2	124.3	170.2	230.0	489.1	1003.8	1183.3	934.7	534.4	329.4	169.6
85°	74.9	75.5	103.4	142.3	296.9	346.8	356.1	353.2	313.7	215.5	90.6
87.5°	36.0	37.2	53.4	67.4	116.8	107.5	101.7	117.9	148.1	116.2	38.9
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: P522693

CATALOG NUMBER: GALN-SA3A-830-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1089.8	1089.8	1089.8	1089.8	1089.8	1089.8	1089.8	1089.8	1089.8	1089.8	1089.8
2.5°	1088.6	1086.9	1082.8	1081.1	1079.9	1080.5	1079.9	1079.9	1080.5	1080.5	1080.5
5°	1093.9	1091.0	1084.6	1084.6	1088.1	1096.2	1103.8	1109.6	1116.0	1115.4	1115.4
7.5°	1116.5	1111.3	1103.8	1106.1	1114.8	1127.6	1140.9	1153.7	1166.5	1167.7	1167.1
10°	1149.6	1144.4	1136.3	1139.2	1153.1	1172.3	1189.1	1207.7	1221.7	1225.7	1224.6
12.5°	1187.4	1177.0	1170.0	1178.1	1200.2	1225.7	1242.0	1256.0	1265.8	1271.6	1269.3
15°	1225.7	1215.9	1207.7	1224.6	1251.3	1275.1	1283.3	1285.6	1287.3	1293.1	1292.0
17.5°	1262.9	1249.6	1246.7	1268.7	1294.3	1304.8	1300.1	1290.2	1282.7	1287.3	1286.7
20°	1296.0	1285.6	1284.4	1306.5	1316.4	1306.5	1286.7	1269.3	1256.0	1257.1	1256.5
22.5°	1327.4	1319.3	1320.4	1329.7	1314.0	1280.4	1247.8	1224.0	1209.5	1212.4	1214.1
25°	1362.3	1354.1	1357.0	1341.9	1290.2	1231.6	1184.5	1164.2	1158.4	1164.2	1168.2
27.5°	1407.6	1402.3	1400.6	1342.5	1247.8	1159.5	1106.1	1098.5	1103.8	1116.5	1122.9
30°	1456.4	1456.4	1447.1	1332.6	1189.7	1073.0	1026.5	1027.7	1045.7	1063.7	1070.1
32.5°	1503.4	1513.3	1484.3	1305.9	1114.8	988.7	953.3	954.5	970.1	992.2	998.0
35°	1542.4	1570.8	1516.2	1257.1	1026.5	917.9	891.1	875.5	876.0	892.9	897.5
37.5°	1595.8	1648.7	1534.8	1184.5	932.4	857.4	827.2	799.9	781.9	775.0	775.0
40°	1688.7	1766.6	1539.4	1077.0	843.5	799.9	756.9	724.4	689.6	658.2	652.4
42.5°	1846.2	1944.3	1530.2	953.3	763.3	736.6	694.8	654.7	606.5	562.3	558.8
45°	2125.0	2175.6	1505.2	824.9	691.9	675.6	634.9	591.4	540.3	500.8	497.9
47.5°	2571.7	2500.3	1472.1	711.0	626.8	622.2	590.8	540.3	489.1	461.8	458.9
50°	3224.1	3011.5	1467.4	628.6	574.5	576.9	551.3	504.8	460.1	437.4	433.9
52.5°	4009.5	3629.0	1498.2	570.5	528.6	537.4	524.6	481.6	442.1	422.9	419.4
55°	4771.7	4184.4	1516.8	525.2	485.7	501.9	503.7	467.6	431.6	412.5	410.1
57.5°	5390.4	4602.7	1434.3	483.9	448.5	473.5	486.2	459.5	426.4	411.9	409.6
60°	5820.8	4800.2	1199.6	447.3	421.2	450.8	479.8	460.1	439.2	440.9	442.1
62.5°	5957.9	4712.4	899.8	420.0	402.6	443.2	490.3	483.9	462.4	475.8	478.1
65°	5730.8	4350.0	652.4	398.5	386.3	448.5	521.7	501.3	454.3	464.2	464.2
67.5°	4970.4	3747.5	507.7	378.8	367.7	458.3	553.0	499.6	435.1	446.7	436.3
70°	3942.7	2898.8	422.9	356.7	348.0	443.8	555.9	481.6	412.5	414.8	395.0
72.5°	2616.5	1906.0	363.7	335.8	317.8	399.1	532.1	458.3	390.4	377.0	357.3
75°	1282.1	950.4	317.2	309.6	278.3	347.4	499.6	436.3	366.6	345.6	334.6
77.5°	496.7	404.3	270.7	276.5	242.2	306.1	456.6	404.9	335.2	306.7	298.0
80°	241.1	229.5	221.9	230.6	199.3	260.8	417.1	377.6	306.1	274.8	262.0
82.5°	149.9	141.7	170.2	179.5	153.4	238.2	395.6	354.4	269.5	227.7	217.3
85°	76.1	81.3	113.9	122.6	109.8	189.4	325.9	266.1	194.6	161.5	162.7
87.5°	29.0	38.9	59.8	64.5	58.7	99.9	179.5	155.1	124.9	84.8	78.4
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)