

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: P451778

Luminaire Tested: **GALN-SA2C-830-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451778
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2C-830-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11141 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 108
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

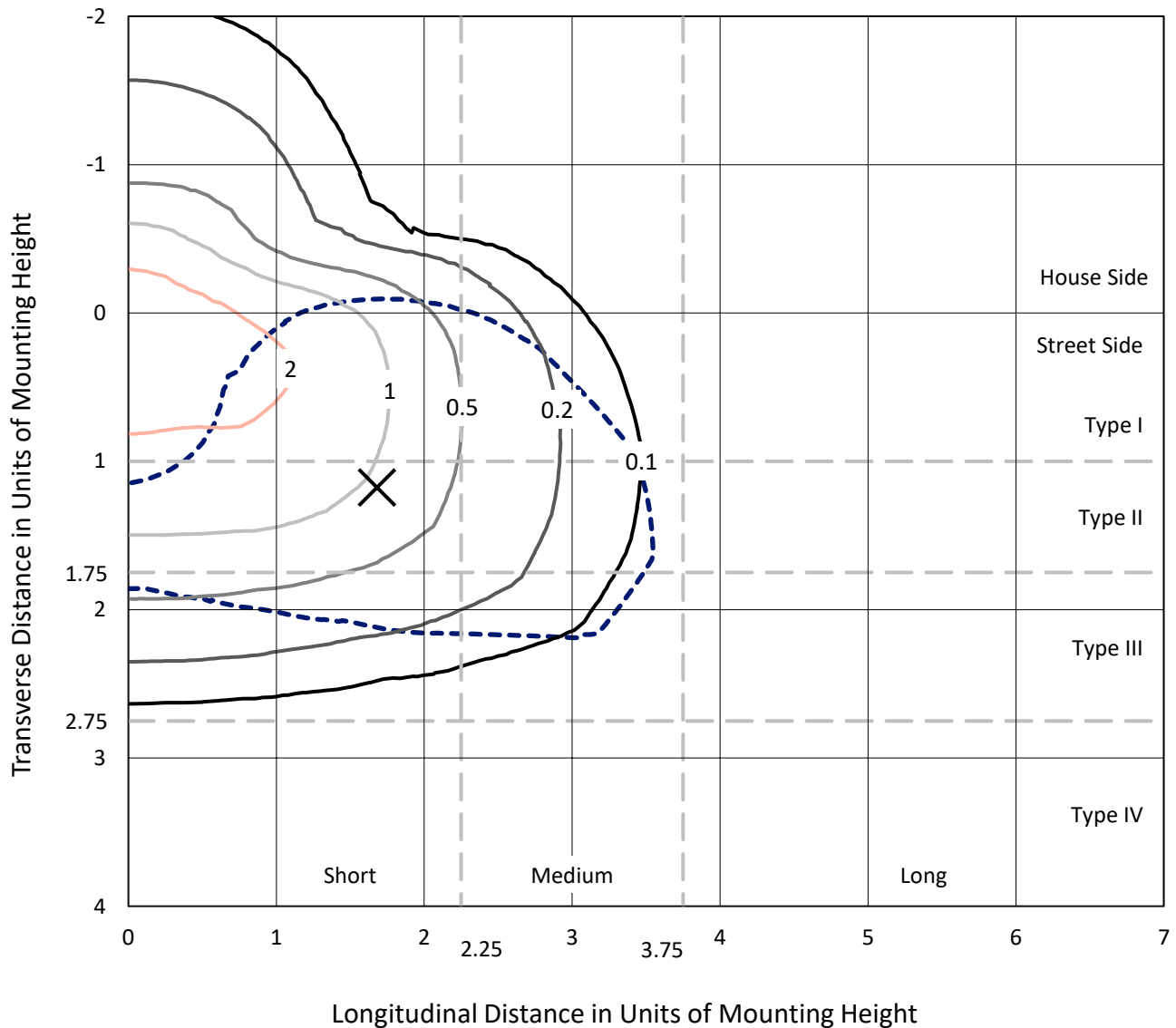


REPORT NUMBER: P451778

CATALOG NUMBER: GALN-SA2C-830-U-T3

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

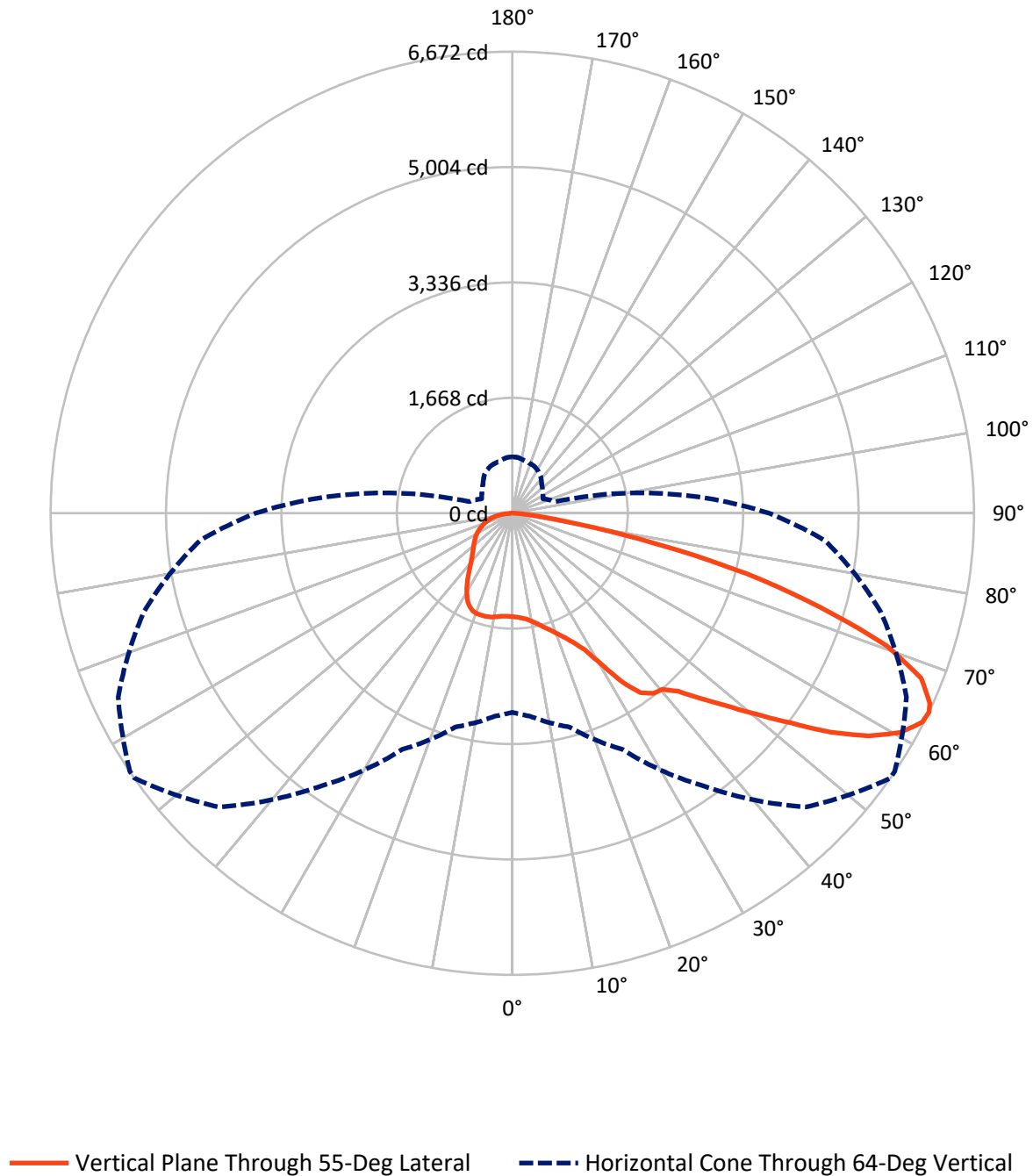


Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type III - Short - N/A

REPORT NUMBER: P451778

CATALOG NUMBER: GALN-SA2C-830-U-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P451778

CATALOG NUMBER: GALN-SA2C-830-U-T3

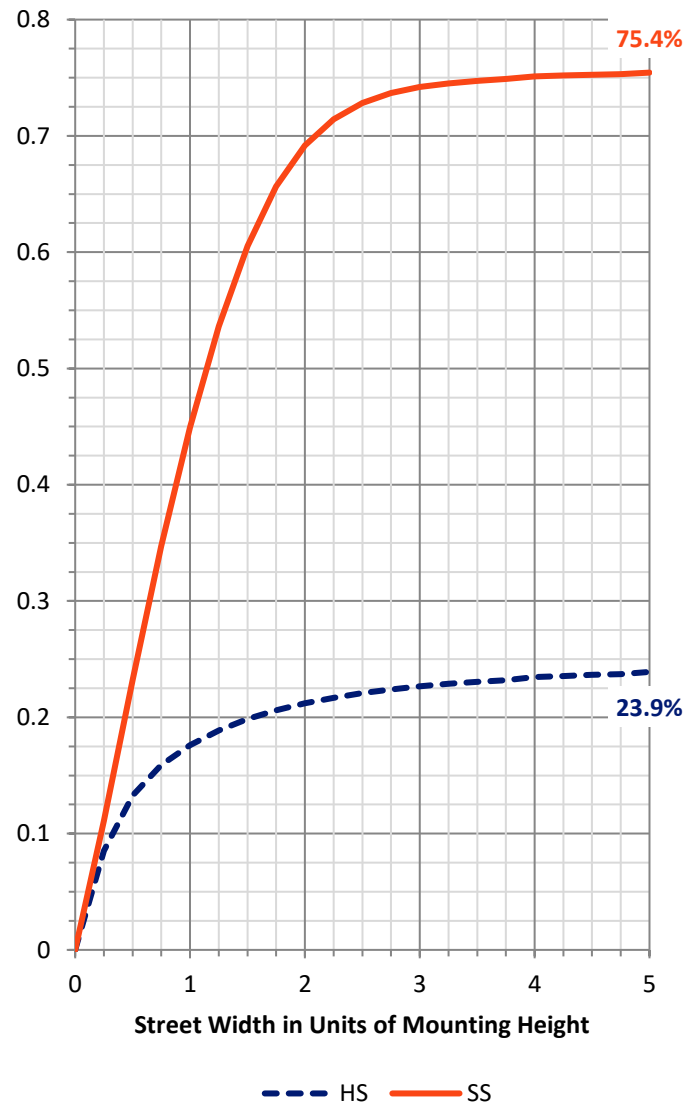
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2706.4	0.0	2706.4
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	8434.6	0.0	8434.6
	% Fixture	75.7	0.0	75.7
Total	Lumens	11141.0	0.0	11141.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.4	1.3
10°-20°	458.8	4.1
20°-30°	816.8	7.3
30°-40°	1256.7	11.3
40°-50°	1781.5	16.0
50°-60°	2578.6	23.1
60°-70°	2668.6	24.0
70°-80°	1249.7	11.2
80°-90°	185.0	1.7
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°	11141.0	100.0
0°-180°	11141.0	100.0

Coefficient of Utilization



REPORT NUMBER: P451778

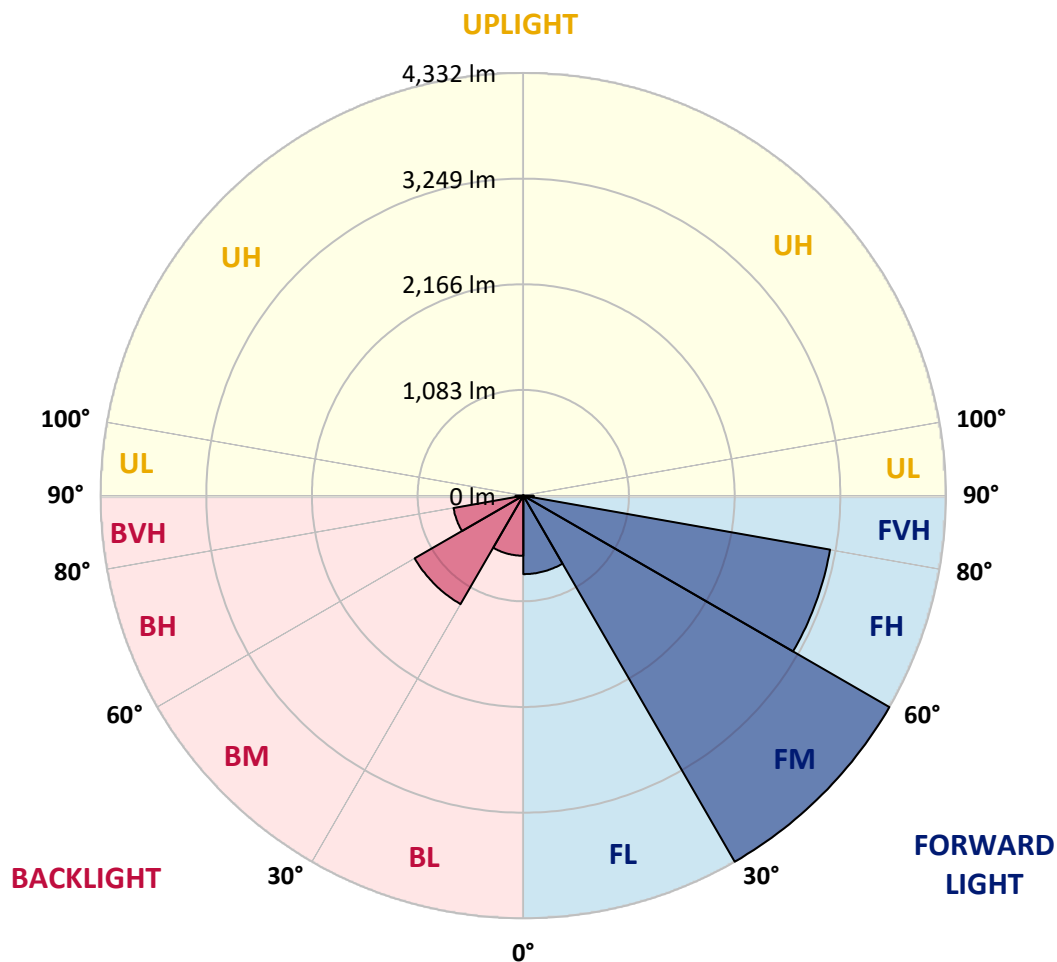
CATALOG NUMBER: GALN-SA2C-830-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	804.6	7.2			
FM	(30°-60°)	4331.9	38.9			
FH	(60°-80°)	3192.2	28.7			G2/5000
FVH	(80°-90°)	105.9	1.0			G2/225
BL	(0°-30°)	616.4	5.5	B2/1000		
BM	(30°-60°)	1284.8	11.5	B2/2500		
BH	(60°-80°)	726.1	6.5	B2/1000		G2/1000
BVH	(80°-90°)	79.1	0.7			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 III Short



REPORT NUMBER: P451778

CATALOG NUMBER: GALN-SA2C-830-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1494.8	1494.8	1494.8	1494.8	1494.8	1494.8	1494.8	1494.8	1494.8	1494.8	1494.8
2.5°	1511.6	1510.9	1512.8	1510.9	1512.2	1507.8	1506.0	1507.2	1505.3	1502.2	1496.6
5°	1530.2	1529.6	1530.2	1527.7	1528.9	1526.5	1522.1	1523.4	1520.2	1513.4	1505.3
7.5°	1561.9	1559.4	1559.4	1558.8	1556.3	1552.5	1549.4	1548.2	1545.1	1536.4	1524.0
10°	1602.8	1602.8	1603.5	1598.5	1601.6	1594.8	1591.7	1591.0	1580.5	1569.3	1551.9
12.5°	1656.9	1660.0	1658.1	1655.6	1654.4	1651.9	1641.3	1643.8	1632.0	1612.8	1591.7
15°	1723.9	1728.9	1725.8	1724.6	1721.5	1712.1	1707.8	1705.9	1690.4	1662.5	1634.5
17.5°	1812.7	1806.5	1804.1	1800.9	1787.9	1781.1	1773.6	1772.4	1758.7	1725.8	1682.3
20°	1890.4	1899.1	1894.1	1891.0	1878.0	1864.9	1859.3	1857.5	1845.7	1809.6	1740.1
22.5°	1982.9	1984.8	1986.6	1979.2	1973.0	1963.0	1953.1	1950.0	1945.6	1908.4	1823.3
25°	2081.6	2089.1	2082.9	2075.4	2068.0	2067.4	2076.7	2075.4	2073.6	2037.6	1933.8
27.5°	2242.5	2249.3	2251.2	2243.1	2214.5	2217.0	2238.1	2245.0	2273.5	2213.9	2076.1
30°	2333.2	2340.0	2355.5	2385.9	2431.3	2471.0	2521.9	2537.5	2564.8	2452.4	2245.0
32.5°	2389.0	2391.5	2419.5	2476.0	2612.0	2760.4	2898.9	2904.5	2921.9	2764.1	2399.6
35°	2477.2	2479.1	2501.5	2563.6	2723.2	2970.3	3184.6	3191.4	3177.1	2861.0	2471.6
37.5°	2585.9	2590.9	2605.2	2656.7	2847.4	3146.1	3303.2	3298.2	3171.5	2938.0	2599.0
40°	2744.3	2744.3	2727.5	2797.1	2978.4	3246.7	3344.8	3336.1	3302.6	3161.0	2792.7
42.5°	2884.0	2881.5	2921.3	2968.5	3142.3	3401.9	3519.3	3533.6	3588.9	3441.1	3013.2
45°	3066.0	3077.1	3099.5	3185.2	3421.2	3667.1	3818.6	3832.3	3910.5	3770.8	3270.9
47.5°	3249.8	3253.5	3323.7	3437.9	3766.5	4026.7	4150.9	4173.2	4244.6	4156.5	3548.5
50°	3380.2	3415.6	3528.0	3708.1	4122.3	4465.1	4562.0	4588.7	4714.8	4576.3	3872.0
52.5°	3518.1	3552.8	3690.1	3964.6	4530.9	4913.5	5032.7	5050.7	5181.8	5001.0	4203.0
55°	3636.0	3668.3	3824.2	4191.9	4856.3	5371.2	5587.3	5566.2	5628.9	5328.3	4458.3
57.5°	3655.3	3681.4	3877.6	4337.2	5101.0	5763.7	6073.5	6086.0	6013.3	5573.0	4668.8
60°	3506.3	3559.7	3785.1	4321.7	5210.9	6036.9	6436.2	6444.9	6238.7	5698.4	4752.6
62.5°	3242.3	3236.7	3509.4	4072.0	5056.9	6099.0	6649.8	6640.5	6326.9	5638.2	4671.3
64°	2877.8	2944.9	3199.5	3765.2	4808.5	6003.4	6672.2	6667.2	6284.7	5512.8	4532.8
65°	2655.5	2651.7	2903.3	3514.3	4561.4	5859.3	6632.5	6625.6	6196.5	5400.4	4425.4
67.5°	1917.1	1925.8	2174.2	2712.0	3708.1	5296.0	6373.5	6348.0	5848.7	5027.7	4016.7
70°	1161.3	1166.3	1361.3	1799.1	2661.7	4281.3	5745.0	5746.3	5316.5	4471.3	3418.7
72.5°	611.7	624.7	703.0	1021.6	1616.5	3003.9	4660.7	4771.3	4564.5	3816.1	2700.8
75°	340.3	342.2	397.5	503.6	824.7	1681.1	3503.2	3534.8	3613.7	3071.5	1997.2
77.5°	259.6	263.3	280.7	325.4	449.0	779.4	2120.1	2279.1	2546.8	2165.5	1139.6
80°	210.5	214.3	229.2	255.9	298.7	369.5	984.9	1070.6	1363.1	961.3	444.6
82.5°	163.9	161.5	180.7	198.1	217.4	218.6	404.3	447.1	555.2	413.6	192.5
85°	121.7	121.7	137.2	133.5	140.3	127.9	178.2	196.9	222.3	175.7	89.4
87.5°	48.4	53.4	90.0	80.7	62.7	50.3	65.8	69.6	77.0	68.9	37.3
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: P451778

CATALOG NUMBER: GALN-SA2C-830-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1494.8	1494.8	1494.8	1494.8	1494.8	1494.8	1494.8	1494.8	1494.8	1494.8	1494.8
2.5°	1497.3	1499.1	1494.8	1491.7	1490.4	1488.6	1486.7	1487.3	1489.8	1492.3	1491.7
5°	1504.7	1505.3	1497.9	1494.2	1491.7	1489.2	1489.2	1491.1	1496.0	1499.8	1499.8
7.5°	1523.4	1523.4	1512.8	1506.0	1502.2	1497.9	1496.6	1497.3	1501.0	1506.0	1506.6
10°	1552.5	1550.1	1536.4	1525.8	1519.0	1508.4	1499.1	1494.2	1496.0	1499.1	1499.1
12.5°	1587.9	1581.1	1563.7	1549.4	1532.7	1512.8	1493.5	1483.6	1483.0	1486.1	1484.8
15°	1625.8	1618.4	1594.1	1568.1	1538.9	1509.7	1486.7	1472.4	1461.3	1458.1	1465.0
17.5°	1669.9	1654.4	1620.9	1584.8	1541.4	1503.5	1467.5	1438.3	1418.4	1412.8	1414.7
20°	1723.3	1702.8	1657.5	1601.0	1539.5	1481.1	1425.2	1386.1	1353.8	1343.9	1345.1
22.5°	1797.2	1761.8	1695.4	1609.1	1524.0	1438.9	1361.3	1310.3	1271.2	1255.7	1265.0
25°	1881.1	1842.6	1731.4	1607.2	1483.6	1371.2	1285.5	1219.1	1183.7	1160.7	1165.6
27.5°	1996.6	1928.3	1769.9	1590.4	1425.9	1288.6	1189.2	1126.5	1094.2	1082.4	1088.0
30°	2144.4	2039.4	1811.5	1545.1	1334.6	1184.3	1092.4	1051.4	1032.1	1017.2	1022.2
32.5°	2251.2	2117.7	1820.8	1468.7	1235.8	1089.3	1026.5	996.1	975.0	960.7	963.8
35°	2327.6	2184.1	1816.5	1374.9	1132.7	1011.0	974.4	949.5	915.4	884.3	878.7
37.5°	2430.0	2267.3	1784.8	1272.5	1030.9	958.2	932.1	886.2	837.1	795.5	793.7
40°	2587.2	2364.8	1717.1	1152.0	943.9	919.1	887.4	827.8	775.0	741.5	739.0
42.5°	2749.2	2454.9	1625.2	1025.3	872.5	878.1	839.6	780.6	748.3	726.6	724.1
45°	2947.3	2552.4	1525.8	915.4	819.7	839.6	798.0	763.8	744.6	730.3	726.6
47.5°	3161.6	2652.4	1414.1	816.6	775.0	804.2	780.6	765.1	754.5	744.6	740.3
50°	3392.6	2764.1	1309.1	737.1	734.7	767.6	778.8	773.2	767.0	763.8	760.1
52.5°	3646.0	2878.4	1220.9	681.3	699.3	741.5	779.4	783.7	783.7	781.9	779.4
55°	3817.4	2957.9	1131.5	635.9	663.2	720.4	778.1	794.9	801.1	798.6	796.1
57.5°	3944.1	3001.4	1019.1	596.8	632.8	699.9	771.3	796.1	802.4	805.5	804.2
60°	3970.2	2961.0	871.9	555.8	599.9	670.1	746.5	777.5	785.6	804.8	806.7
62.5°	3852.8	2836.8	725.3	515.4	559.5	624.7	712.9	756.4	772.5	802.4	805.5
64°	3708.7	2697.7	644.0	490.0	533.5	599.3	696.2	750.8	771.9	811.7	814.2
65°	3603.1	2596.5	593.1	473.8	516.7	582.5	686.8	752.7	777.5	826.0	829.7
67.5°	3214.4	2248.1	490.6	436.0	476.9	553.9	688.7	768.2	776.3	831.5	830.9
70°	2659.8	1789.8	411.1	401.2	438.4	531.0	681.3	743.4	744.0	780.6	771.9
72.5°	1991.6	1322.8	356.5	365.2	395.6	476.3	643.4	709.8	699.3	704.2	695.5
75°	1368.1	875.0	306.8	326.7	350.9	421.0	590.0	644.6	627.8	621.6	615.4
77.5°	730.3	483.8	255.2	288.8	304.9	363.9	514.8	567.6	550.2	526.0	517.9
80°	295.6	227.9	205.6	239.1	248.4	293.1	428.5	461.4	448.4	406.1	392.5
82.5°	148.4	136.6	161.5	188.2	188.8	209.3	318.6	349.6	320.4	268.9	257.1
85°	77.6	80.1	111.2	132.3	116.8	113.0	191.3	211.8	194.4	168.9	152.1
87.5°	27.9	32.3	58.4	57.8	41.0	21.7	42.2	20.5	11.2	6.8	8.7
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)