Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P939889

Luminaire Tested: **GALN-SB2C-940-U-T4FT**

Issue Date: 1/21/2025

Report Generated By 670246001

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Test Information

Test Method:	LM-79-08
Report Number:	P939889
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab:	INNOVATION CENTER
Issue Date:	1/21/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	McGRAW-EDISON
Catalog Number:	GALN-SB2C-940-U-T4FT
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(2) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	10727 lumens
Efficiency:	N/A
Efficacy:	106.3 lumens/watt
Luminous Opening:	Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U0 - G3
Input Watts (W):	100.9
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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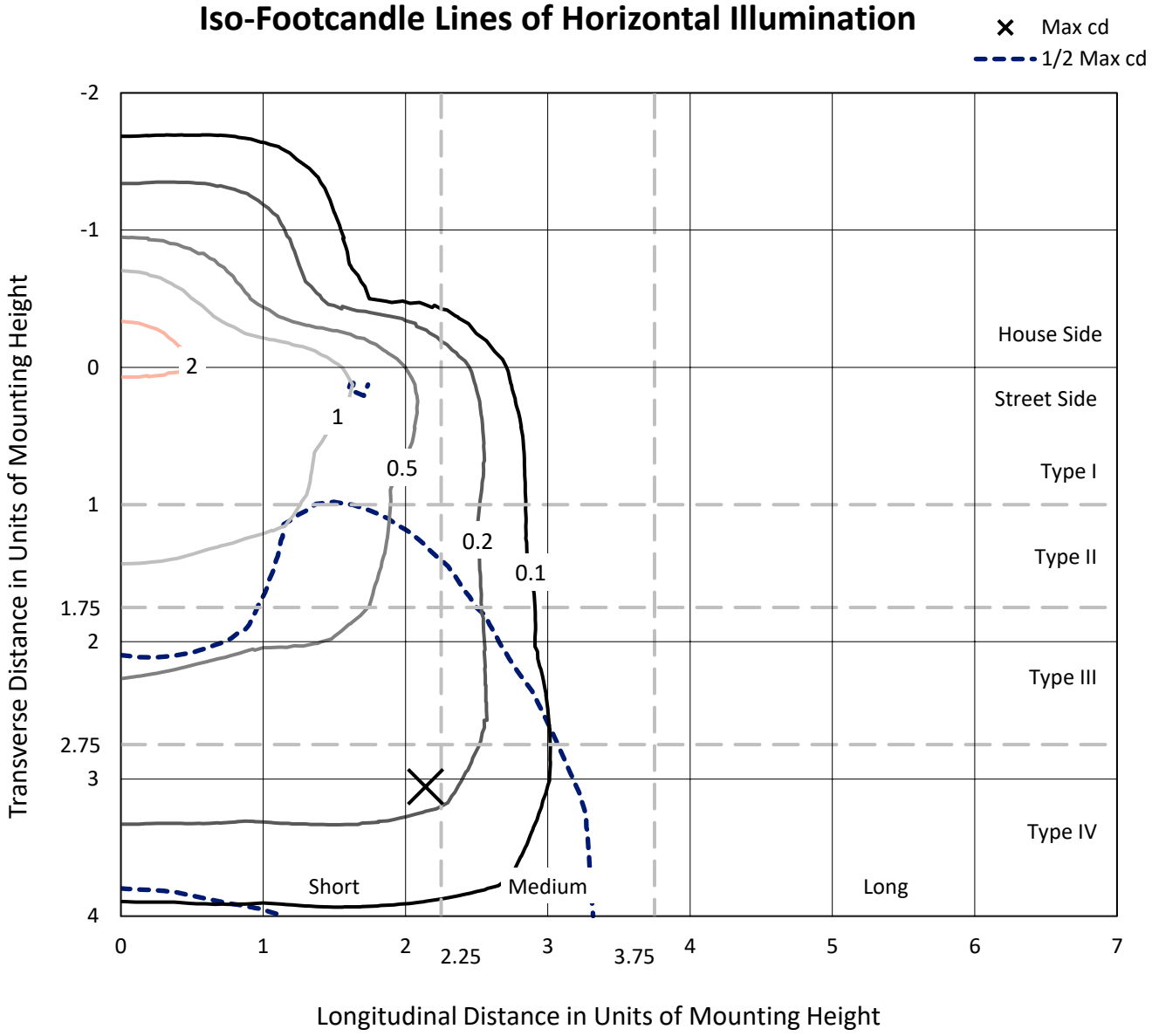
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
Type IV - Short - N/A

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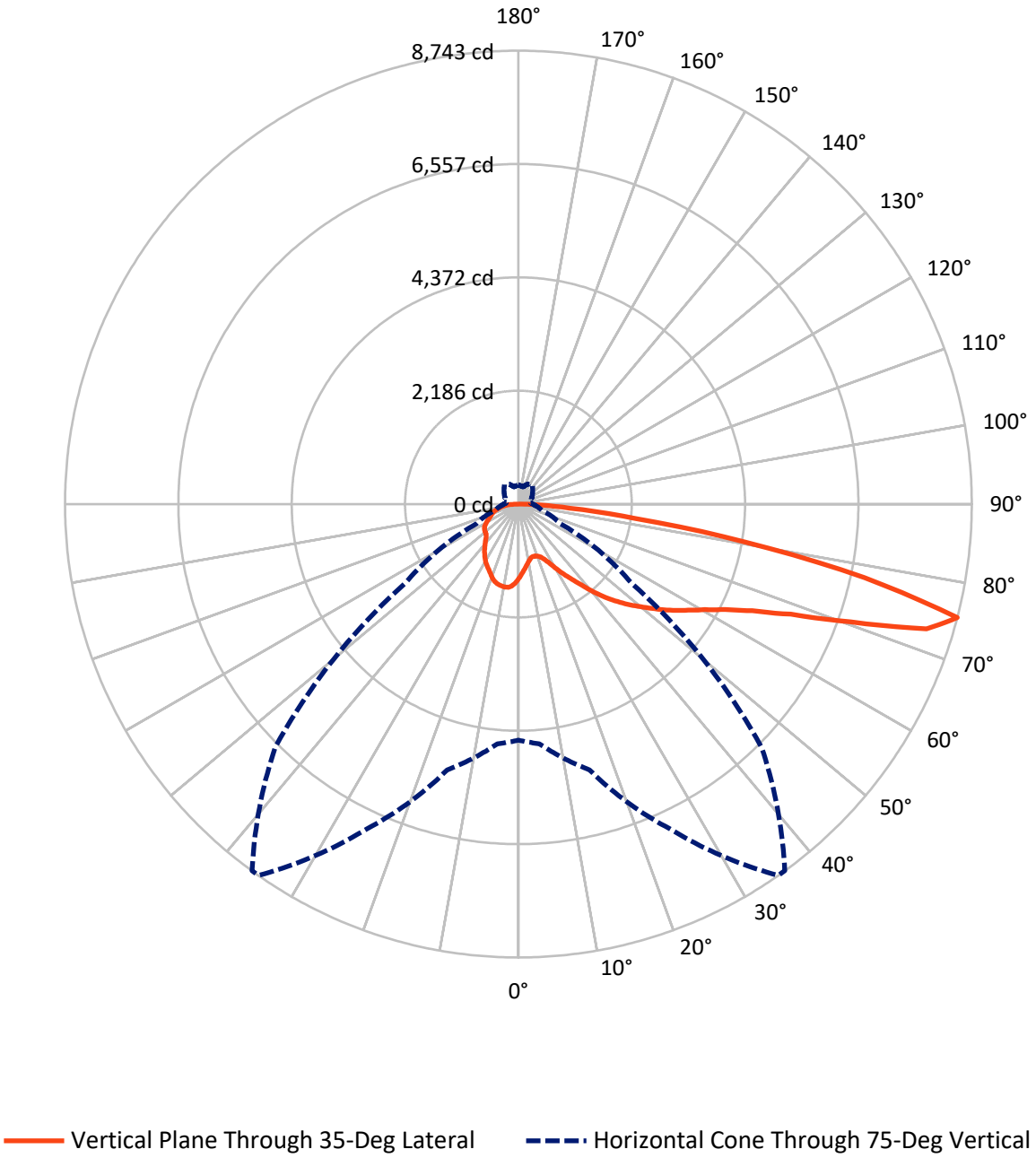
Luminous Intensity Polar Plot



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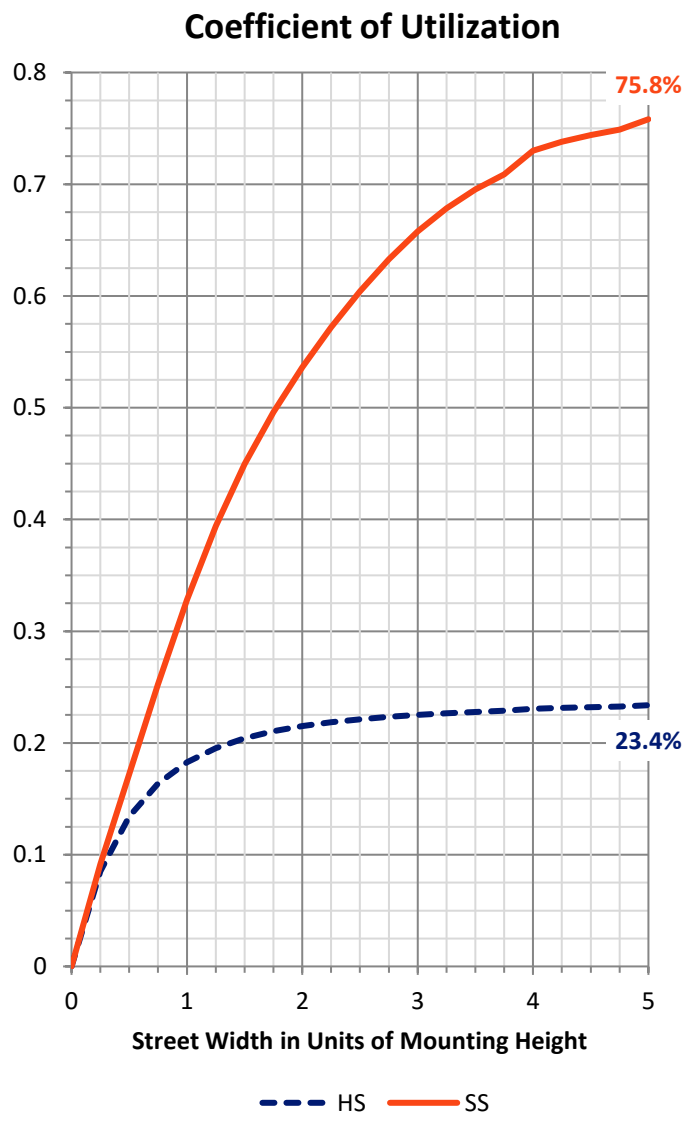
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2552.8	0.0	2552.8
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	8174.2	0.0	8174.2
	% Fixture	76.2	0.0	76.2
Total	Lumens	10727.0	0.0	10727.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.3	1.3
10°-20°	390.4	3.6
20°-30°	655.5	6.1
30°-40°	1018.8	9.5
40°-50°	1512.2	14.1
50°-60°	2087.7	19.5
60°-70°	2532.8	23.6
70°-80°	2093.2	19.5
80°-90°	301.1	2.8
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°	10727.0	100.0
0°-180°	10727.0	100.0



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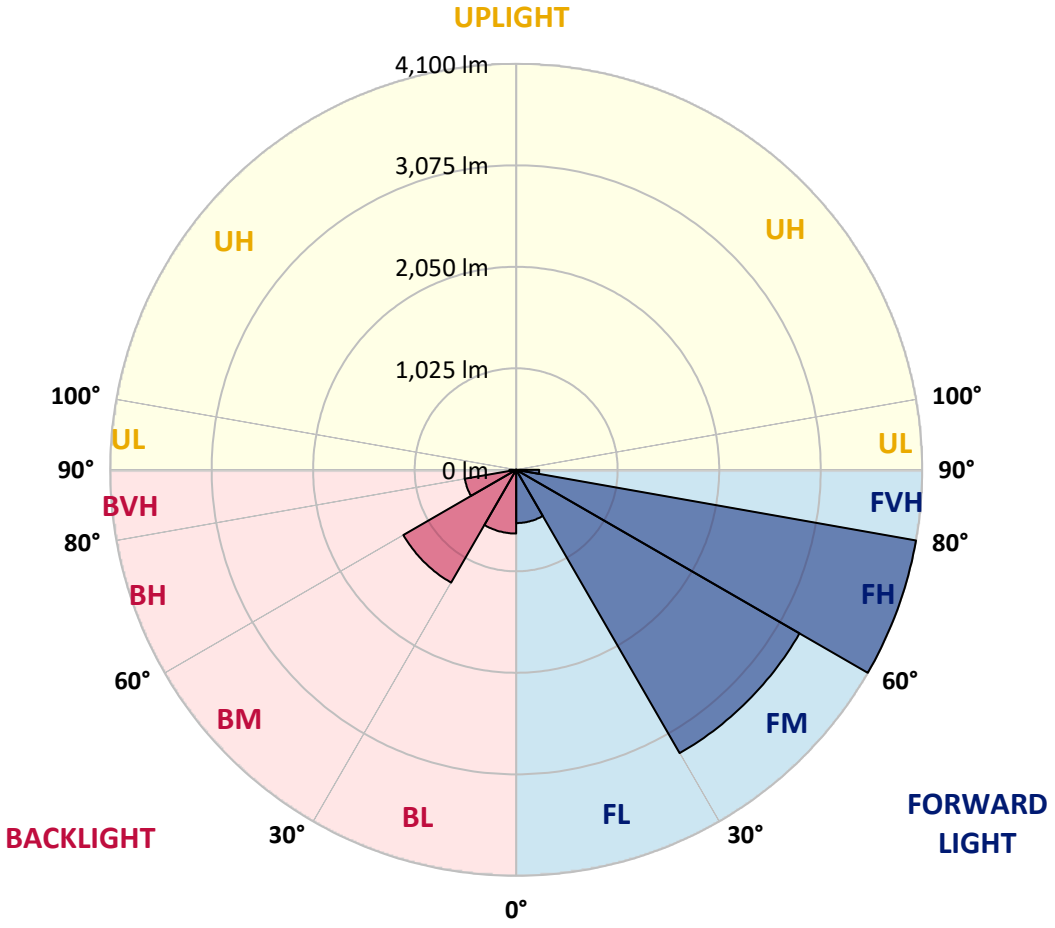
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	537.9	5.0			
FM	(30°-60°)	3303.3	30.8			
FH	(60°-80°)	4099.7	38.2			G2/5000
FVH	(80°-90°)	233.3	2.2			G3/500
BL	(0°-30°)	643.3	6.0	B2/1000		
BM	(30°-60°)	1315.3	12.3	B2/2500		
BH	(60°-80°)	526.3	4.9	B2/1000		G2/1000
BVH	(80°-90°)	67.8	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	1429.4	1429.4	1429.4	1429.4	*1429.4*	1429.4	1429.4	1429.4	1429.4	1429.4
2.5°	1318.1	1326.2	1329.7	1328.0	*1336.7*	1335.5	1347.7	1362.8	1383.6	1403.9
5°	1216.6	1225.3	1232.9	1239.8	*1256.6*	1261.9	1281.0	1310.0	1348.3	1387.1
7.5°	1122.1	1129.6	1141.2	1154.0	*1182.4*	1187.6	1219.5	1264.8	1318.1	1374.9
10°	1045.0	1052.5	1064.7	1079.2	*1114.6*	1120.9	1161.5	1221.8	1291.4	1363.3
12.5°	1011.9	1014.2	1021.2	1035.7	*1066.4*	1070.5	1115.1	1184.1	1265.3	1354.6
15°	1010.2	1014.8	1015.4	1022.9	*1048.5*	1050.2	1091.4	1159.8	1249.1	1352.9
17.5°	1027.6	1031.1	1025.8	1030.5	*1051.9*	1054.8	1087.3	1148.2	1243.9	1360.4
20°	1074.0	1076.9	1061.2	1054.8	*1070.5*	1072.8	1104.7	1155.7	1249.1	1376.1
22.5°	1172.6	1174.3	1136.0	1109.9	*1111.1*	1112.2	1140.1	1186.5	1269.4	1404.5
25°	1326.2	1325.1	1264.2	1213.7	*1184.7*	1178.4	1196.9	1236.3	1303.6	1442.2
27.5°	1506.0	1497.3	1436.4	1361.0	*1297.8*	1288.5	1284.5	1301.3	1352.3	1492.1
30°	1709.0	1700.8	1635.3	1536.7	*1449.2*	1434.1	1395.8	1387.1	1424.8	1559.9
32.5°	1931.6	1926.4	1848.1	1728.7	*1611.5*	1594.1	1529.8	1506.6	1536.1	1662.6
35°	2118.4	2113.7	2048.8	1925.8	*1782.6*	1761.1	1695.6	1669.5	1684.6	1794.2
37.5°	2287.1	2284.8	2229.1	2132.3	*1984.4*	1958.3	1884.7	1876.0	1873.1	1967.6
40°	2443.7	2437.9	2379.9	2328.9	*2219.3*	2195.5	2130.5	2123.0	2101.0	2181.0
42.5°	2617.1	2602.0	2517.9	2494.1	*2464.6*	2444.8	2406.0	2407.2	2358.4	2421.6
45°	2758.6	2749.9	2663.5	2649.5	*2681.4*	2673.3	2707.0	2715.7	2621.1	2673.9
47.5°	2910.5	2902.4	2829.3	2819.5	*2905.9*	2908.2	3027.1	3030.0	2877.4	2936.0
50°	3097.8	3086.2	3013.7	3025.9	*3122.7*	3131.4	3348.9	3329.2	3113.5	3202.2
52.5°	3221.3	3228.3	3212.6	3232.3	*3364.6*	3372.7	3665.5	3615.1	3347.2	3464.9
55°	3312.4	3326.3	3375.0	3420.2	*3619.7*	3627.8	3964.2	3887.0	3540.8	3708.4
57.5°	3429.5	3409.8	3500.8	3589.0	*3862.1*	3883.6	4254.7	4149.2	3712.5	3918.4
60°	3597.7	3583.8	3654.5	3785.0	*4133.5*	4167.7	4562.0	4385.2	3838.3	4084.8
62.5°	3938.7	3903.9	3914.9	4030.3	*4475.6*	4520.9	4908.8	4591.0	3901.0	4149.7
65°	4448.4	4388.7	4333.0	4413.0	*4957.5*	5002.2	5300.3	4752.8	3877.8	4023.9
67.5°	5090.3	5031.2	4962.8	5038.1	*5667.3*	5702.7	5783.3	4843.9	3695.1	3539.1
70°	5619.8	5597.7	5679.5	5989.8	*6801.0*	6802.2	6402.6	4768.5	3194.7	2509.2
72.5°	5549.6	5536.3	5967.1	6926.3	*8229.9*	8199.2	6988.9	4197.9	2152.0	1132.0
75°	*4552.8*	*4639.2*	*5306.6*	*6909.5*	*8743.1*	*8739.0*	*6630.0*	*2668.7*	*890.1*	*469.1*
77.5°	2441.4	2578.2	3445.2	5101.4	*6825.4*	6928.0	4661.2	933.6	382.2	300.4
80°	796.2	915.7	1373.2	2597.4	*4435.0*	4415.9	1997.7	366.5	261.5	212.8
82.5°	338.1	352.0	613.5	1226.5	*2276.1*	2240.7	636.1	210.5	183.8	145.6
85°	132.2	147.9	270.8	567.1	*985.8*	964.4	229.6	104.4	117.7	95.1
87.5°	43.5	52.8	96.8	194.3	*306.8*	295.7	56.2	36.0	51.0	43.5
90°	0.0	0.0	0.0	0.0	*0.0*	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P939889
CATALOG NUMBER: GALN-SB2C-940-U-T4FT

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1429.4	0°	1429.4	1429.4	1429.4	1429.4	1429.4	1429.4	1429.4	1429.4	1429.4	1429.4
1433.5	2.5°	1441.6	1450.9	1461.9	1478.2	1492.1	1503.7	1515.8	1523.4	1526.3	1535.0
1435.8	5°	1452.1	1472.4	1499.6	1526.3	1552.4	1568.0	1582.0	1588.9	1595.3	1599.9
1442.2	7.5°	1469.5	1495.6	1538.5	1573.3	1595.3	1608.1	1617.3	1615.0	1617.3	1618.5
1449.2	10°	1484.5	1521.1	1572.1	1605.2	1622.0	1622.6	1620.2	1612.1	1608.1	1608.6
1459.6	12.5°	1502.5	1543.1	1598.2	1626.0	1630.7	1617.9	1608.1	1594.1	1588.9	1586.6
1475.3	15°	1526.9	1573.3	1626.6	1637.0	1625.5	1609.2	1592.4	1569.8	1558.2	1548.9
1501.9	17.5°	1556.4	1607.5	1648.6	1641.1	1616.2	1589.5	1562.2	1528.0	1504.3	1494.4
1538.5	20°	1597.6	1643.4	1665.5	1632.4	1594.7	1554.1	1507.7	1466.0	1443.9	1434.1
1584.9	22.5°	1647.5	1691.6	1681.7	1617.3	1564.0	1499.0	1441.0	1410.3	1399.3	1392.3
1644.6	25°	1707.2	1744.9	1693.3	1595.3	1513.5	1426.0	1381.3	1371.5	1366.2	1361.0
1717.7	27.5°	1784.9	1805.2	1702.0	1562.8	1434.7	1348.3	1332.0	1333.8	1332.0	1323.3
1819.1	30°	1887.6	1883.5	1710.1	1510.1	1344.2	1278.1	1279.3	1286.8	1288.0	1282.2
1960.6	32.5°	2022.7	1981.5	1714.2	1441.6	1257.8	1216.6	1217.8	1225.9	1231.7	1221.8
2145.6	35°	2186.2	2095.7	1707.8	1355.8	1191.1	1158.1	1149.4	1151.7	1153.4	1144.1
2370.0	37.5°	2377.0	2223.9	1679.4	1260.7	1136.0	1100.6	1082.1	1066.4	1057.2	1048.5
2624.0	40°	2586.3	2363.7	1627.2	1167.9	1074.5	1039.8	1011.9	982.3	951.0	939.4
2893.1	42.5°	2805.5	2507.5	1564.0	1079.2	1003.8	975.4	945.8	902.9	855.9	832.2
3172.6	45°	3032.9	2654.8	1501.9	991.6	931.3	919.1	884.9	833.3	782.3	752.1
3452.7	47.5°	3255.5	2793.9	1410.9	903.5	863.5	876.8	850.1	802.6	745.7	698.2
3730.5	50°	3468.4	2924.4	1261.9	814.2	808.4	864.0	838.5	770.1	705.2	644.3
4003.0	52.5°	3679.4	3030.0	1071.1	733.0	778.8	860.6	823.5	748.1	668.6	604.8
4259.3	55°	3858.6	3084.5	887.2	663.4	735.9	831.0	805.5	722.0	617.0	549.2
4435.0	57.5°	3960.7	3040.4	734.1	595.0	676.7	782.3	774.7	666.3	555.5	503.4
4469.3	60°	3916.6	2861.8	608.9	535.2	620.5	729.5	721.4	611.2	508.6	459.3
4286.0	62.5°	3673.6	2521.4	509.7	483.1	569.5	675.6	668.0	568.9	472.6	425.1
3799.5	65°	3184.2	2051.1	432.6	439.6	517.8	610.6	621.6	533.5	444.2	397.8
2939.5	67.5°	2428.6	1485.7	372.3	401.9	467.4	546.8	578.7	508.0	420.4	376.4
1700.8	70°	1384.2	843.7	321.3	365.3	422.7	487.7	545.7	487.7	394.9	358.4
637.3	72.5°	524.8	387.4	277.8	328.8	379.8	437.8	509.1	455.8	365.3	338.1
329.4	75°	*280.1*	*236.0*	*233.7*	*285.9*	*330.5*	*389.1*	*463.3*	*424.5*	*343.3*	*357.2*
227.9	77.5°	190.8	167.0	195.4	244.7	276.6	335.2	414.6	376.9	297.5	296.3
157.7	80°	132.2	118.3	158.9	197.2	214.0	281.8	361.9	323.6	242.4	226.2
97.4	82.5°	79.4	77.1	118.9	147.3	151.4	217.5	299.8	271.4	198.3	172.8
58.0	85°	43.5	45.8	76.0	86.4	88.1	151.9	234.9	209.9	152.5	128.2
20.9	87.5°	12.2	15.7	27.8	34.2	42.3	78.9	139.8	124.7	76.5	53.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

180°
1429.4
1534.4
1601.1
1620.2
1609.8
1585.4
1551.8
1495.0
1432.9
1393.5
1361.0
1325.1
1285.1
1226.5
1150.5
1054.3
944.7
835.1
749.8
693.0
639.0
597.9
543.4
496.4
452.3
417.5
390.3
369.4
353.7
333.4
368.8
273.1
216.3
174.0
129.3
53.4
0.0

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