

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: METALUX

Report Number: P#

Luminaire Tested: **4SNLED-LD5-23SL-RM-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33524)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-23SL-RM-UNV-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
METALIC FINISH REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

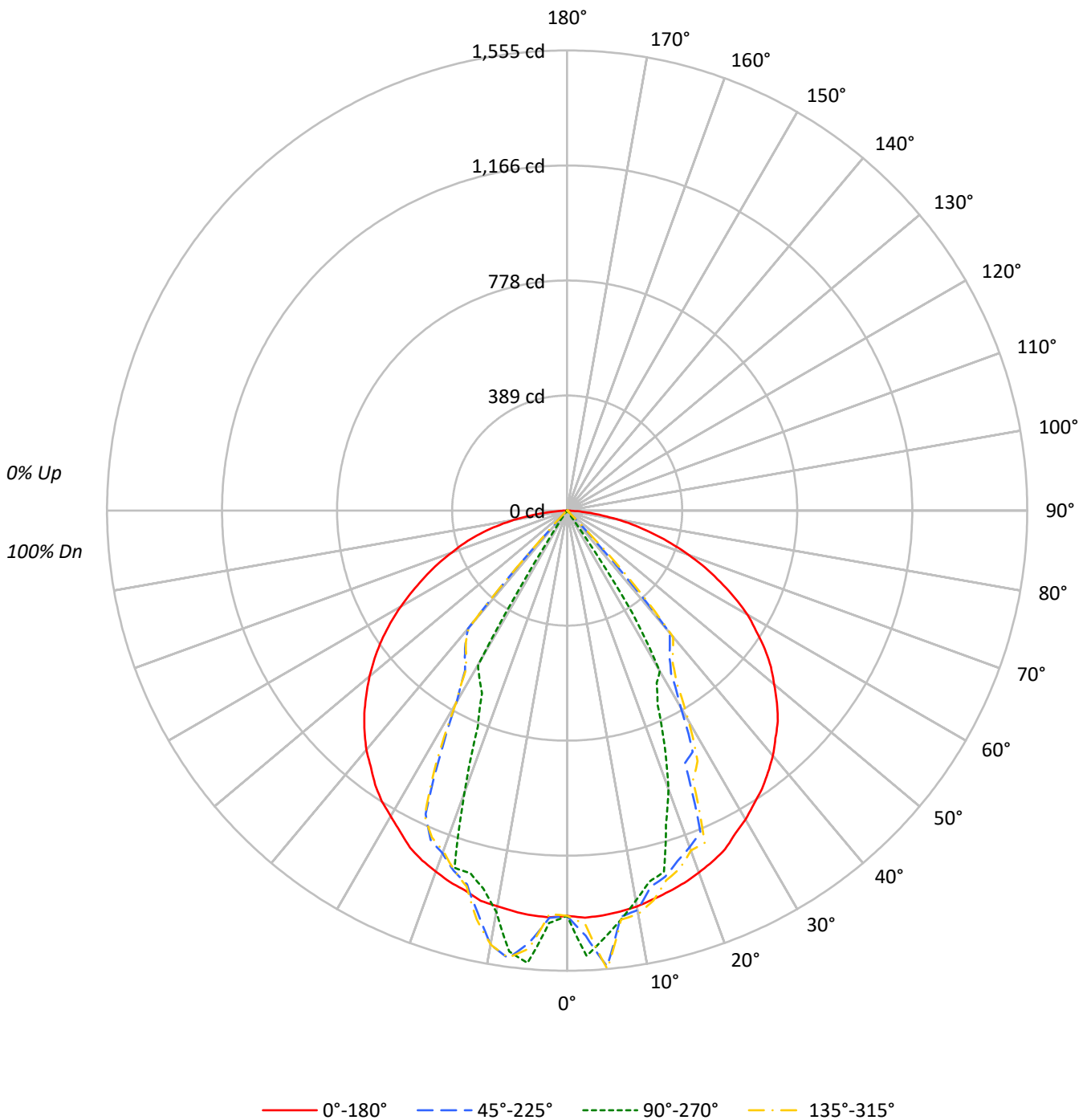
Lumens per Lamp: N/A
Luminaire Lumens: 1946.9 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.81 / 0.97
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 16
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: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81					81			
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65					65			
5	85	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59					59			
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	55	54					54			
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49					49			
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45					45			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42					42			
10	63	52	45	41	62	52	45	41	51	45	41	50	44	41	49	44	40	39					39			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11065	11065	11065	11065
5°	11110	11380	11107	12052
10°	11084	10298	11077	10595
15°	11054	9612	11026	9637
20°	11067	7571	11035	7664
25°	11098	5479	11044	5171
30°	11048	4806	10931	4620
35°	11081	106	10918	128
40°	11118	23	10852	23
45°	11157	13	10738	10
50°	11072	10	10564	10
55°	11007	7	10331	7
60°	10800	8	9955	8
65°	10236	13	9507	8
70°	9496	14	9041	14
75°	8400	16	8537	16
80°	6823	18	7214	18
85°	4017	21	4099	21



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.4	7.1
10°-20°	374.7	19.2
20°-30°	476.8	24.5
30°-40°	402.8	20.7
40°-50°	263.3	13.5
50°-60°	165.9	8.5
60°-70°	88.3	4.5
70°-80°	32.2	1.7
80°-90°	5.5	0.3
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°-30°	988.9	50.8
0°-40°	1391.7	71.5
0°-60°	1820.9	93.5
0°-90°	1946.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1946.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1369	1369	1369	1369	1369	
5°	1373	1449	1373	1534	1373	131
15°	1332	1264	1329	1268	1332	377
25°	1263	722	1257	681	1263	581
35°	1148	14	1131	16	1148	718
45°	1007	2	969	1	1007	774
55°	816	1	766	1	816	727
65°	571	1	530	1	571	566
75°	300	1	305	1	300	319
85°	59	1	60	1	59	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3
2.5°	1377.1	1377.9	1378.3	1379.1	1380.4	1380.8	1381.6	1380.8	1380.8	1380.8	1380.8
5°	1373.4	1375.0	1376.3	1377.9	1380.8	1381.2	1384.5	1384.9	1386.5	1389.8	1392.3
7.5°	1367.2	1368.9	1371.3	1375.4	1379.5	1384.1	1389.8	1396.0	1404.6	1412.8	1423.1
10°	1358.2	1360.2	1363.1	1366.8	1386.9	1389.8	1402.6	1420.2	1425.2	1451.1	1470.4
12.5°	1345.0	1352.0	1359.4	1362.7	1382.0	1412.4	1455.2	1446.5	1437.1	1521.7	1520.5
15°	1332.3	1341.7	1338.0	1364.8	1382.4	1435.4	1417.4	1456.0	1526.7	1509.4	1510.2
17.5°	1318.7	1320.8	1341.3	1363.5	1395.2	1422.3	1444.5	1497.5	1511.5	1512.7	1497.5
20°	1301.5	1311.3	1341.3	1361.5	1414.9	1427.6	1475.7	1502.8	1497.1	1483.1	1457.2
22.5°	1283.8	1313.8	1344.2	1372.6	1410.0	1444.1	1467.9	1480.6	1450.6	1395.6	1366.0
25°	1262.8	1280.5	1320.4	1361.9	1408.7	1428.5	1442.4	1421.9	1382.8	1333.5	1283.8
27.5°	1230.4	1258.7	1309.7	1356.5	1398.9	1422.7	1400.1	1350.8	1287.9	1255.4	1232.8
30°	1205.3	1242.3	1284.2	1329.4	1373.4	1387.4	1329.8	1273.5	1230.4	1197.9	1193.0
32.5°	1174.9	1227.5	1267.4	1310.5	1347.5	1329.0	1273.1	1200.4	1164.6	1152.3	1157.2
35°	1147.8	1187.6	1239.8	1282.2	1308.9	1267.4	1179.0	1133.8	1116.5	1123.5	1114.5
37.5°	1115.3	1167.9	1216.0	1252.6	1243.5	1181.1	1106.3	1077.5	1079.6	1073.8	1056.5
40°	1081.6	1131.7	1181.9	1216.4	1184.8	1089.4	1039.7	1033.5	1034.8	1016.3	991.6
42.5°	1042.2	1087.8	1137.9	1169.1	1100.9	1026.5	992.8	993.7	983.0	957.1	943.9
45°	1006.8	1048.7	1100.9	1103.8	1020.0	957.9	948.1	937.4	913.5	904.9	895.0
47.5°	961.6	1008.1	1051.2	1035.6	940.7	902.0	894.6	871.2	859.3	852.7	844.5
50°	913.5	960.4	999.8	955.5	865.9	856.8	832.6	814.1	805.9	798.9	791.5
52.5°	867.9	906.5	946.8	870.4	808.3	799.7	772.2	761.5	753.3	745.5	743.8
55°	816.1	850.2	877.8	789.4	753.3	733.1	713.4	706.0	698.2	694.5	700.7
57.5°	757.4	796.0	791.9	709.7	693.7	664.5	657.1	652.2	646.4	648.9	597.5
60°	704.4	734.0	713.8	651.4	624.2	604.5	597.9	594.6	597.9	547.8	481.6
62.5°	639.0	672.3	631.6	583.1	554.4	544.9	539.2	543.7	495.6	440.5	424.5
65°	571.2	607.4	547.4	510.0	491.9	483.7	483.3	445.1	397.8	376.4	376.4
67.5°	505.9	543.3	466.0	434.8	427.8	428.6	404.8	346.8	333.7	319.3	277.8
70°	436.4	469.3	385.1	366.2	362.0	359.2	301.2	285.6	270.0	231.8	228.5
72.5°	367.4	383.4	309.4	304.9	304.1	252.7	241.2	214.5	196.4	191.9	189.9
75°	300.4	295.5	244.5	248.6	209.6	191.5	173.0	157.4	154.9	153.3	38.2
77.5°	237.1	212.5	192.7	167.7	150.0	127.4	123.7	121.2	79.7	28.8	23.4
80°	172.6	137.7	128.2	108.9	92.9	89.2	91.2	27.9	22.2	18.5	16.0
82.5°	109.7	87.9	71.9	62.9	61.2	26.7	19.7	16.0	14.0	11.9	9.9
85°	58.8	39.0	36.2	30.4	18.1	12.3	10.3	7.8	6.6	5.3	4.9
87.5°	18.5	15.6	12.7	10.3	6.2	4.1	3.3	2.9	2.5	2.1	2.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: 4SNLED-LD5-23SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	11°	12°	13°	14°	15°	16°	17°	18°	19°	20°	25°
0°	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3
2.5°	1380.0	1380.8	1380.4	1381.6	1381.6	1383.2	1384.5	1385.7	1388.2	1389.4	1398.9
5°	1397.6	1399.7	1405.9	1411.6	1418.6	1420.6	1432.6	1435.4	1449.4	1451.1	1497.1
7.5°	1437.1	1444.9	1459.7	1474.5	1489.3	1498.7	1515.2	1525.4	1536.5	1546.4	1583.0
10°	1484.8	1497.9	1512.3	1527.1	1535.7	1553.8	1563.7	1565.3	1562.4	1546.4	1487.2
12.5°	1531.6	1544.8	1538.6	1541.5	1551.7	1519.7	1524.2	1501.2	1517.2	1437.9	1379.1
15°	1525.0	1524.2	1509.0	1459.7	1467.9	1406.7	1382.0	1363.1	1378.3	1370.1	1361.1
17.5°	1505.3	1467.9	1441.6	1382.4	1357.4	1340.1	1340.5	1340.9	1333.5	1341.3	1318.3
20°	1421.9	1380.0	1340.9	1320.0	1312.6	1300.2	1306.4	1300.2	1300.6	1303.1	1267.8
22.5°	1310.9	1298.2	1275.6	1282.2	1279.7	1290.8	1282.6	1269.8	1273.9	1255.4	1228.7
25°	1266.1	1251.3	1250.5	1253.0	1249.3	1244.3	1237.0	1217.6	1216.4	1210.7	1198.3
27.5°	1220.9	1221.7	1224.2	1216.8	1203.7	1193.8	1182.7	1173.3	1177.0	1170.4	1153.5
30°	1189.7	1189.3	1174.5	1167.9	1143.7	1144.1	1141.2	1135.4	1131.7	1132.2	1121.5
32.5°	1145.3	1132.6	1115.7	1107.5	1105.4	1098.1	1092.3	1093.5	1096.4	1086.1	1097.2
35°	1099.7	1073.4	1070.9	1063.9	1057.4	1052.4	1054.5	1046.3	1045.9	1044.6	954.2
37.5°	1038.5	1025.7	1024.5	1017.1	1012.6	1011.3	1003.5	1004.8	1008.5	1015.0	813.7
40°	987.9	976.4	973.5	973.1	963.3	962.4	964.5	972.3	977.6	936.5	775.5
42.5°	933.7	934.5	925.5	919.7	920.9	924.6	934.5	907.4	786.1	749.2	708.9
45°	887.2	883.1	878.2	876.6	887.2	879.8	771.3	711.8	697.4	695.7	582.7
47.5°	838.7	837.5	835.5	836.7	775.9	691.6	667.0	659.2	661.6	660.0	500.5
50°	789.8	791.5	791.5	691.2	634.5	620.5	622.6	629.6	586.0	547.0	466.4
52.5°	747.5	734.8	629.6	593.4	580.7	586.8	572.0	517.4	477.9	454.9	431.5
55°	669.0	575.3	551.9	546.1	550.7	496.0	462.3	427.0	416.7	414.2	400.7
57.5°	526.4	507.5	509.6	486.6	434.4	403.6	390.0	385.1	380.5	377.2	32.9
60°	465.6	470.9	431.1	381.8	360.8	356.7	353.4	348.9	348.1	342.3	21.0
62.5°	426.2	374.8	340.3	327.9	323.0	321.8	315.6	313.6	266.3	36.6	15.6
65°	321.4	300.4	293.8	291.0	285.6	285.6	237.1	37.4	30.4	26.3	14.0
67.5°	262.2	260.5	257.3	253.6	172.6	36.2	31.6	27.5	23.8	21.0	12.3
70°	221.9	221.1	201.4	37.0	30.8	27.1	23.8	21.4	19.7	17.7	11.1
72.5°	182.0	37.0	31.2	27.1	23.4	21.4	19.3	17.3	15.6	14.4	9.0
75°	28.4	25.1	22.2	20.1	18.5	16.4	14.8	13.6	13.2	11.5	6.2
77.5°	20.5	17.7	16.0	14.4	12.7	11.5	9.9	8.6	7.8	6.6	4.5
80°	14.4	12.7	11.5	9.5	8.2	7.0	6.2	5.3	4.9	4.1	2.1
82.5°	8.2	7.0	6.2	4.9	4.5	3.7	3.3	2.9	2.9	2.1	2.1
85°	3.7	3.7	2.9	2.5	2.1	2.1	2.1	1.6	1.6	1.2	1.2
87.5°	1.6	1.6	1.6	1.6	1.6	1.2	1.2	1.2	1.2	1.2	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°
0°	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3
2.5°	1412.0	1417.4	1427.6	1438.3	1426.4	1469.1	1465.8	1480.2	1488.0	1491.7	1500.4
5°	1537.8	1561.6	1569.4	1546.0	1532.4	1518.4	1486.8	1463.0	1465.8	1458.0	1429.7
7.5°	1535.3	1484.3	1415.7	1384.5	1382.0	1378.3	1388.2	1393.9	1394.8	1394.3	1393.5
10°	1405.4	1379.1	1374.6	1370.5	1372.2	1356.9	1350.0	1330.2	1340.9	1335.2	1337.2
12.5°	1366.0	1359.8	1335.6	1301.9	1322.0	1306.8	1298.2	1303.9	1297.4	1291.2	1289.1
15°	1342.6	1302.7	1289.1	1280.9	1275.2	1271.9	1274.8	1268.2	1266.1	1264.9	1267.8
17.5°	1294.1	1278.0	1263.3	1241.5	1241.9	1240.6	1248.9	1261.2	1262.0	1198.7	1141.6
20°	1255.9	1242.7	1223.8	1210.2	1228.7	1195.9	1068.9	1008.5	999.0	999.0	1000.7
22.5°	1225.4	1196.3	1197.5	1176.1	1003.1	967.8	968.6	972.3	955.5	897.9	891.8
25°	1183.9	1179.4	1089.4	941.5	942.7	915.2	872.9	813.3	748.7	748.7	738.1
27.5°	1152.7	1057.0	925.5	919.3	826.8	768.5	732.3	677.7	670.3	663.3	664.1
30°	1126.0	894.2	897.5	768.5	700.3	651.8	648.9	639.8	635.3	634.1	629.6
32.5°	890.1	870.8	751.2	654.2	627.5	619.7	616.0	605.7	605.3	597.5	543.3
35°	834.6	764.4	628.7	602.4	594.6	587.2	581.1	390.0	46.0	18.5	16.0
37.5°	771.3	638.6	581.5	569.6	562.2	415.5	41.5	14.4	10.3	7.4	6.6
40°	653.8	570.4	552.3	539.2	222.3	14.4	9.0	7.0	4.1	3.7	3.3
42.5°	551.5	537.5	518.2	157.8	16.4	7.0	4.5	3.3	2.9	2.9	2.5
45°	516.1	503.8	208.8	15.6	10.3	3.3	2.9	2.9	2.5	1.6	1.6
47.5°	483.3	425.3	18.9	9.9	6.6	2.9	2.5	1.6	1.6	1.6	1.2
50°	448.3	23.4	13.2	7.4	4.1	1.6	1.6	1.6	1.6	1.2	1.2
52.5°	83.8	16.4	10.7	6.6	2.1	1.6	1.6	1.6	1.2	1.2	1.2
55°	19.7	13.2	9.9	5.8	1.6	1.6	1.6	1.2	1.2	1.2	0.8
57.5°	14.8	9.9	7.8	5.3	1.6	1.2	1.2	1.2	1.2	1.2	0.8
60°	12.3	7.0	6.2	4.9	1.2	1.2	1.2	1.2	1.2	1.2	0.8
62.5°	8.6	5.8	4.5	3.7	1.2	1.2	1.2	1.2	1.2	1.2	1.2
65°	7.0	4.5	3.7	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
67.5°	6.2	3.7	2.5	0.8	1.2	1.2	1.2	1.2	1.2	1.2	1.2
70°	4.9	1.2	1.2	0.8	1.2	1.2	1.2	1.2	1.2	1.2	1.2
72.5°	4.1	1.2	0.8	0.8	1.2	1.2	1.2	1.2	1.2	1.2	1.2
75°	4.1	2.1	0.8	0.8	1.2	1.2	1.6	1.6	1.2	1.2	1.2
77.5°	2.9	2.1	0.8	0.8	1.2	1.2	1.6	1.6	1.2	1.2	1.2
80°	1.6	2.1	0.8	1.2	1.2	2.5	2.9	1.6	1.2	1.2	1.2
82.5°	1.6	2.1	2.5	2.5	1.2	2.1	2.5	2.1	1.6	1.2	1.2
85°	1.6	1.2	1.6	2.1	1.2	2.1	2.1	1.6	1.6	1.2	1.2
87.5°	0.8	1.2	1.2	1.6	1.6	1.6	2.1	1.6	1.6	1.6	1.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-23SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°
0°	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3
2.5°	1504.5	1506.1	1480.2	1471.2	1479.0	1477.4	1470.4	1444.5	1441.6	1424.3	1399.3
5°	1437.9	1449.0	1435.4	1458.9	1447.8	1458.9	1492.6	1508.2	1533.7	1549.3	1555.0
7.5°	1391.5	1393.9	1393.9	1396.0	1398.0	1398.5	1396.0	1394.3	1387.4	1378.7	1394.3
10°	1335.2	1338.0	1343.0	1342.2	1341.7	1350.4	1352.4	1370.1	1369.3	1372.6	1384.5
12.5°	1306.0	1283.8	1303.9	1298.6	1306.0	1294.5	1315.9	1312.2	1313.4	1323.2	1348.7
15°	1257.5	1264.5	1269.4	1269.4	1272.3	1269.8	1267.4	1284.2	1294.5	1294.9	1293.3
17.5°	1164.2	1111.2	1165.4	1151.5	1262.8	1265.7	1256.3	1248.5	1248.5	1254.6	1267.8
20°	999.4	1000.7	1001.1	1006.4	1013.0	1012.6	1013.0	1174.9	1251.7	1234.1	1222.2
22.5°	876.1	860.9	889.3	887.2	922.6	961.6	999.0	995.3	997.8	1112.0	1214.8
25°	702.3	722.0	706.0	713.0	752.9	799.3	828.1	903.3	985.0	979.3	1006.0
27.5°	661.2	655.9	663.3	663.3	668.6	674.8	690.8	733.1	805.9	882.3	954.6
30°	622.2	626.7	627.5	634.9	639.0	643.1	645.6	661.6	678.1	731.1	820.3
32.5°	467.2	409.7	539.2	574.1	603.7	610.7	615.6	622.2	634.1	641.9	686.7
35°	13.6	13.6	14.4	16.4	21.0	141.4	538.3	593.4	601.2	611.1	619.3
37.5°	6.6	4.9	5.8	6.2	7.4	10.3	14.8	46.0	512.5	579.4	588.5
40°	2.9	2.9	2.9	2.9	3.3	4.1	6.2	10.3	15.6	412.2	556.0
42.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.9	3.7	7.4	17.7	291.8
45°	1.6	1.6	1.2	1.6	1.6	2.1	2.5	2.5	3.3	11.1	20.1
47.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.1	2.5	7.4	10.7
50°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	5.8	7.4
52.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.5	6.6
55°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.2	1.6	5.8
57.5°	0.8	0.8	0.8	0.8	0.8	1.2	0.8	0.8	1.2	1.2	5.3
60°	0.8	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.2	1.2	4.9
62.5°	1.2	1.2	0.8	1.2	0.8	0.8	1.2	1.2	1.2	1.2	3.3
65°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.8	1.2
67.5°	1.2	1.2	1.2	1.2	0.8	1.2	0.8	1.2	1.2	0.8	0.8
70°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.8	0.8	0.8	0.8
72.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.8	0.8	0.8	0.8
75°	1.2	1.2	1.2	1.2	1.2	1.2	1.6	1.6	0.8	0.8	0.8
77.5°	1.2	1.2	1.2	1.2	1.2	1.2	2.1	2.5	2.1	2.1	0.8
80°	1.2	1.2	1.2	1.2	1.2	1.2	2.1	2.1	2.1	2.1	2.9
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.6	1.6	1.6	1.6	2.1
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.6	1.6	1.6	1.2	1.6
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.6	1.2	1.2	1.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-23SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	140°	145°	150°	155°	160°	161°	162°	163°	164°	165°	166°
0°	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3
2.5°	1401.3	1387.4	1382.8	1373.4	1372.6	1373.4	1371.3	1368.5	1370.1	1367.2	1364.8
5°	1558.3	1520.9	1496.7	1464.2	1419.4	1409.5	1407.1	1393.1	1388.2	1386.5	1380.0
7.5°	1431.3	1499.5	1540.6	1554.6	1502.0	1489.7	1475.3	1463.8	1452.7	1431.7	1419.0
10°	1375.0	1378.3	1417.8	1463.8	1538.6	1548.9	1556.7	1531.6	1524.6	1471.2	1459.7
12.5°	1361.9	1362.3	1366.8	1394.8	1453.5	1460.1	1487.6	1502.4	1520.5	1530.8	1522.6
15°	1301.9	1335.2	1359.8	1362.3	1367.6	1379.1	1387.4	1438.7	1460.5	1518.9	1515.6
17.5°	1273.9	1284.6	1320.4	1349.6	1344.6	1340.5	1347.1	1354.1	1375.0	1433.4	1432.6
20°	1227.5	1261.6	1280.9	1311.3	1338.9	1340.1	1332.7	1328.6	1320.4	1329.8	1338.5
22.5°	1207.8	1213.1	1249.3	1270.6	1301.9	1313.0	1314.6	1315.0	1310.5	1305.6	1303.1
25°	1205.7	1188.9	1207.4	1234.1	1257.1	1269.0	1282.6	1287.1	1285.4	1285.4	1283.0
27.5°	986.7	1183.5	1173.7	1191.3	1219.3	1227.5	1234.5	1248.5	1257.1	1263.3	1266.1
30°	939.8	975.2	1147.4	1149.8	1178.2	1177.4	1185.2	1196.7	1207.8	1222.2	1225.9
32.5°	831.3	918.1	1050.4	1108.3	1137.9	1140.8	1144.9	1148.2	1158.5	1174.5	1188.5
35°	666.1	836.3	900.0	1088.6	1093.9	1099.7	1102.2	1110.0	1113.3	1119.8	1132.2
37.5°	602.9	691.2	863.4	941.5	1043.4	1048.3	1061.5	1064.8	1070.1	1075.4	1084.9
40°	566.3	590.5	718.7	840.8	1002.7	1006.0	1010.5	1018.7	1019.1	1025.3	1033.9
42.5°	537.1	552.7	590.1	803.0	973.9	973.5	962.8	968.2	970.7	977.2	989.1
45°	429.0	518.6	542.5	655.9	775.5	831.3	938.6	920.9	920.5	923.0	935.7
47.5°	21.8	487.8	504.6	541.2	732.3	734.4	748.3	865.9	883.9	878.2	879.4
50°	14.8	33.7	470.1	487.0	631.2	682.2	692.4	697.8	765.6	841.2	828.9
52.5°	11.5	19.3	288.1	452.0	512.9	550.3	616.4	654.2	658.3	688.7	791.9
55°	10.3	14.8	31.2	417.1	436.0	444.2	482.9	549.0	602.4	618.5	619.7
57.5°	9.0	13.6	21.4	188.6	396.6	398.2	404.8	427.8	475.9	519.8	569.6
60°	8.2	11.9	16.8	32.5	360.4	364.5	365.7	371.9	377.7	407.7	464.8
62.5°	4.9	9.5	14.8	23.4	285.2	327.5	327.1	331.2	336.6	339.9	351.4
65°	4.1	7.4	12.7	19.7	34.9	43.6	264.6	294.2	297.5	302.0	304.1
67.5°	3.7	6.6	9.5	15.6	26.3	30.0	34.5	42.7	233.4	263.0	267.1
70°	3.3	4.5	7.8	13.2	21.4	23.0	25.9	29.6	34.9	43.1	211.2
72.5°	2.1	3.3	5.3	9.5	16.4	18.5	20.1	22.6	25.1	30.0	34.5
75°	0.8	2.5	4.5	7.0	12.7	14.0	15.2	16.8	18.9	22.2	24.7
77.5°	0.8	2.1	3.7	4.9	8.2	9.5	11.1	12.3	14.0	15.6	18.1
80°	2.9	1.6	2.5	3.7	5.8	6.2	7.0	7.8	9.0	10.3	11.9
82.5°	2.1	2.5	2.9	2.5	2.9	3.7	4.1	4.9	5.3	6.2	6.6
85°	1.6	1.6	2.1	2.1	2.1	2.1	2.1	2.1	2.5	2.9	3.7
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.6	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-23SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	167°	168°	169°	170°	171°	172°	173°	174°	175°	176°	177°
0°	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3
2.5°	1364.8	1363.9	1361.5	1361.5	1361.1	1362.7	1363.9	1365.2	1364.8	1367.2	1364.8
5°	1375.0	1373.0	1369.3	1366.0	1364.8	1365.6	1364.3	1365.6	1363.9	1366.0	1362.3
7.5°	1403.4	1396.4	1382.0	1376.3	1368.9	1368.5	1364.8	1363.9	1361.5	1361.5	1356.9
10°	1453.5	1419.8	1415.7	1398.5	1392.3	1362.3	1368.9	1357.8	1356.5	1351.2	1349.1
12.5°	1494.6	1468.3	1460.5	1445.3	1428.0	1367.2	1380.8	1356.9	1355.7	1345.0	1333.9
15°	1495.4	1510.6	1489.3	1447.4	1443.7	1401.7	1374.2	1366.0	1355.3	1323.2	1328.6
17.5°	1447.4	1482.3	1492.6	1483.5	1457.2	1428.9	1390.2	1373.8	1341.7	1327.4	1317.5
20°	1369.3	1404.6	1448.6	1451.5	1467.9	1447.8	1397.2	1370.5	1331.9	1306.8	1298.6
22.5°	1307.2	1333.1	1383.7	1407.1	1427.2	1434.2	1402.2	1362.7	1314.6	1290.4	1285.4
25°	1274.3	1280.1	1295.3	1322.8	1367.2	1399.3	1403.8	1361.9	1336.8	1283.8	1255.9
27.5°	1262.4	1257.5	1251.3	1265.3	1298.6	1337.6	1363.5	1370.5	1308.0	1257.5	1229.6
30°	1232.0	1234.9	1225.4	1220.5	1242.3	1282.6	1328.6	1340.1	1292.0	1239.8	1207.8
32.5°	1194.6	1199.6	1201.2	1192.6	1188.0	1216.0	1265.7	1293.3	1290.8	1214.8	1179.0
35°	1147.8	1161.7	1165.4	1165.9	1158.5	1153.9	1182.7	1239.8	1261.6	1203.3	1151.5
37.5°	1098.5	1102.6	1122.7	1128.1	1128.1	1114.5	1135.9	1181.5	1211.9	1177.4	1117.8
40°	1036.8	1050.0	1068.9	1078.3	1087.8	1089.0	1077.1	1109.1	1159.3	1150.7	1086.1
42.5°	992.0	1000.7	1012.2	1024.9	1044.2	1049.1	1036.8	1042.6	1094.8	1117.4	1045.0
45°	939.8	951.3	954.6	968.6	988.7	1003.1	1002.7	990.8	1032.7	1060.7	1015.0
47.5°	886.4	897.5	903.3	910.2	925.0	943.5	953.8	948.5	956.7	1011.3	975.2
50°	831.3	837.5	849.0	856.8	866.7	877.4	902.0	907.0	895.5	939.0	931.2
52.5°	779.2	781.2	789.0	796.8	810.0	817.8	837.5	852.3	851.5	864.2	882.3
55°	738.5	729.4	731.1	737.2	745.9	757.8	768.9	791.9	799.7	802.2	830.9
57.5°	577.0	669.8	678.1	677.7	687.9	693.3	703.5	718.7	746.7	740.5	772.6
60°	524.4	534.6	612.3	621.4	625.1	630.0	642.3	656.3	676.8	690.0	704.0
62.5°	399.9	462.3	485.7	554.4	565.1	567.9	576.1	582.7	604.1	634.1	628.3
65°	309.4	336.2	407.7	435.6	494.0	501.4	512.9	519.8	526.0	560.5	562.2
67.5°	267.5	271.6	291.0	344.8	381.8	438.9	445.9	452.0	461.5	486.2	501.4
70°	228.5	233.4	238.8	243.3	291.4	329.2	382.2	384.2	390.4	406.8	441.4
72.5°	43.1	195.2	198.5	201.4	206.7	231.8	282.3	323.4	325.9	333.7	365.3
75°	29.2	34.1	46.8	161.1	166.4	168.1	176.7	228.1	265.9	267.5	281.5
77.5°	21.0	23.4	28.4	33.7	85.9	129.0	131.1	140.5	179.6	207.9	210.4
80°	14.4	16.0	18.9	21.4	26.3	34.5	95.3	98.2	103.1	142.2	149.6
82.5°	8.2	9.5	11.1	13.6	15.6	19.7	25.5	32.9	67.0	71.5	94.9
85°	4.1	4.5	5.3	6.6	7.8	9.5	12.7	15.6	21.4	38.6	39.9
87.5°	2.1	2.1	2.1	2.1	3.3	3.7	4.5	5.8	7.4	11.1	14.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-23SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	178°	179°	180°	181°	182°	183°	184°	185°	186°	187°	188°
0°	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3
2.5°	1365.2	1370.9	1375.9	1377.1	1377.1	1377.9	1379.1	1380.0	1380.8	1381.6	1380.8
5°	1362.7	1368.9	1373.0	1374.2	1374.2	1376.7	1378.7	1381.2	1382.4	1382.4	1381.6
7.5°	1356.5	1361.1	1366.4	1369.7	1370.1	1374.2	1377.9	1377.5	1379.1	1380.0	1382.0
10°	1348.3	1348.3	1357.4	1359.8	1361.9	1366.4	1367.6	1370.1	1375.9	1376.7	1382.0
12.5°	1344.2	1340.1	1350.8	1352.0	1359.0	1353.2	1360.6	1363.1	1357.4	1365.2	1354.9
15°	1325.7	1330.6	1329.0	1332.7	1345.0	1338.5	1358.6	1352.0	1366.8	1349.1	1380.4
17.5°	1310.5	1309.7	1316.3	1319.6	1322.0	1336.0	1341.3	1348.7	1354.5	1349.6	1361.9
20°	1299.4	1292.8	1297.8	1301.5	1310.1	1320.8	1324.1	1313.0	1332.3	1365.2	1373.0
22.5°	1278.5	1273.9	1279.7	1279.7	1292.8	1291.2	1303.5	1296.5	1314.6	1352.8	1392.7
25°	1250.1	1250.5	1256.7	1264.1	1266.5	1285.0	1291.6	1300.6	1323.2	1368.9	1393.1
27.5°	1221.3	1218.9	1222.6	1237.8	1250.5	1264.1	1266.1	1296.9	1327.8	1359.0	1380.4
30°	1192.6	1190.1	1192.6	1203.7	1218.9	1227.9	1250.5	1291.6	1320.4	1341.7	1361.9
32.5°	1161.7	1159.3	1165.0	1173.3	1200.0	1201.2	1246.0	1284.6	1307.2	1322.8	1319.1
35°	1128.9	1125.6	1130.9	1143.7	1168.3	1177.4	1224.2	1253.0	1278.5	1285.9	1268.6
37.5°	1089.4	1083.7	1090.2	1107.9	1133.8	1160.1	1199.1	1232.4	1246.0	1226.3	1205.7
40°	1048.3	1044.2	1055.7	1064.8	1095.2	1131.7	1176.5	1200.0	1191.3	1168.7	1146.1
42.5°	1011.8	1003.1	1013.4	1030.7	1065.2	1106.7	1142.8	1156.0	1135.4	1102.2	1075.9
45°	967.0	956.7	969.0	992.0	1029.0	1076.3	1104.6	1100.1	1065.2	1036.4	1000.2
47.5°	920.1	907.8	920.1	947.6	989.1	1039.3	1059.8	1039.3	995.3	959.2	930.0
50°	874.1	859.7	871.6	913.1	953.8	992.4	992.0	952.2	925.9	886.4	860.9
52.5°	828.5	807.9	819.8	865.0	905.7	949.7	917.2	880.2	848.6	814.1	805.9
55°	772.2	750.0	766.0	831.8	863.0	888.9	837.1	804.6	773.4	756.1	745.9
57.5°	718.7	694.5	708.5	786.1	809.2	815.7	768.1	722.0	703.5	697.8	683.0
60°	663.7	636.1	649.3	738.9	754.9	728.2	681.4	645.6	641.9	630.4	618.9
62.5°	611.1	580.7	588.9	680.1	687.5	639.0	595.9	586.4	577.4	565.9	559.7
65°	550.7	519.0	530.5	617.7	610.7	548.2	524.0	521.9	510.0	500.5	509.6
67.5°	495.2	457.8	473.8	549.4	517.8	466.8	457.0	452.0	442.6	447.9	353.0
70°	434.4	393.7	415.5	475.9	429.0	395.3	391.6	384.2	384.6	305.7	257.7
72.5°	366.6	331.2	362.9	395.3	339.4	329.6	324.2	323.4	261.0	212.0	200.1
75°	307.0	271.2	305.3	317.7	270.4	263.8	263.4	217.8	171.4	163.6	159.9
77.5°	239.6	212.0	244.5	226.0	207.5	200.1	179.6	134.8	129.0	123.7	46.4
80°	161.5	163.6	182.5	155.7	147.9	126.2	99.4	95.3	82.2	32.9	25.9
82.5°	98.2	123.3	116.3	97.4	95.3	68.6	62.9	32.1	23.8	18.9	16.4
85°	51.0	62.5	60.0	53.0	39.5	35.3	19.7	15.2	12.3	9.5	7.8
87.5°	17.3	23.0	22.2	17.7	13.6	10.7	7.0	5.8	4.1	3.3	2.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-23SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	189°	190°	191°	192°	193°	194°	195°	196°	197°	198°	199°
0°	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3
2.5°	1380.0	1380.0	1379.1	1380.0	1380.4	1379.5	1379.5	1380.4	1380.8	1381.2	1383.2
5°	1382.0	1382.8	1384.1	1386.5	1386.9	1391.9	1393.9	1395.2	1396.4	1396.8	1393.9
7.5°	1386.5	1389.4	1391.9	1391.5	1388.6	1380.8	1378.3	1376.3	1380.0	1389.4	1400.5
10°	1390.6	1377.5	1352.8	1386.5	1376.3	1385.7	1413.7	1419.8	1438.7	1465.4	1473.2
12.5°	1362.3	1398.5	1406.3	1368.5	1438.3	1412.4	1443.2	1470.4	1478.2	1505.3	1488.9
15°	1392.7	1410.4	1422.3	1460.1	1456.0	1478.2	1486.8	1481.5	1482.7	1489.7	1508.2
17.5°	1392.3	1427.6	1435.4	1460.9	1478.2	1478.6	1476.1	1473.7	1480.2	1485.6	1474.5
20°	1416.1	1427.6	1442.8	1453.1	1456.4	1460.5	1468.3	1462.2	1449.8	1437.9	1433.0
22.5°	1404.2	1430.1	1443.2	1444.9	1442.8	1430.1	1418.6	1401.3	1395.6	1389.4	1391.5
25°	1406.7	1418.6	1416.9	1410.4	1401.7	1377.9	1372.2	1364.8	1353.7	1326.9	1302.7
27.5°	1389.0	1382.8	1375.4	1359.4	1343.8	1331.1	1316.7	1292.8	1273.1	1244.3	1233.7
30°	1359.4	1334.8	1316.7	1307.2	1292.0	1270.6	1248.9	1219.7	1194.6	1188.9	1183.5
32.5°	1302.7	1278.5	1263.7	1240.6	1214.8	1189.3	1164.2	1152.7	1147.4	1148.2	1143.3
35°	1244.8	1223.4	1201.2	1166.7	1147.4	1121.9	1112.8	1110.4	1105.4	1100.1	1094.4
37.5°	1183.1	1158.0	1124.8	1104.2	1084.9	1074.6	1070.1	1066.4	1057.8	1048.3	1041.8
40°	1123.5	1078.3	1059.8	1039.7	1033.9	1029.4	1022.8	1013.8	1001.9	1000.2	997.4
42.5°	1043.8	1011.3	995.3	991.2	984.2	976.4	970.7	960.8	955.9	959.2	961.6
45°	968.2	951.8	946.4	941.5	928.3	917.2	913.5	910.2	914.4	932.4	889.3
47.5°	907.0	900.4	893.8	885.6	873.3	865.0	868.7	872.0	875.7	743.0	678.1
50°	853.9	844.9	834.6	825.6	818.2	817.4	836.7	778.7	652.2	648.9	583.1
52.5°	796.0	782.4	776.3	770.9	774.2	786.6	650.9	604.1	579.4	503.4	469.7
55°	733.5	721.6	721.6	726.6	708.9	574.5	567.5	490.7	444.2	431.1	425.7
57.5°	671.1	669.8	676.8	618.9	521.5	500.1	420.4	403.6	396.2	394.5	385.9
60°	614.0	625.5	523.5	481.6	418.8	377.7	366.2	364.1	356.3	353.4	345.6
62.5°	568.3	471.4	438.9	358.3	337.4	332.0	325.9	323.0	316.0	279.0	81.8
65°	410.5	387.9	314.8	301.2	299.6	291.8	289.3	260.1	61.2	41.1	34.9
67.5°	309.9	274.9	265.5	263.0	255.2	239.6	71.1	40.7	34.9	30.4	26.7
70°	237.9	231.8	224.8	219.0	64.5	40.3	34.9	29.6	25.5	22.6	20.5
72.5°	194.8	190.7	111.0	42.3	34.5	29.2	25.9	22.6	19.7	18.1	16.4
75°	152.5	42.3	34.9	29.2	25.1	21.4	18.9	16.8	15.2	14.0	12.7
77.5°	34.5	27.9	23.8	20.1	18.1	16.0	14.4	12.3	11.1	9.9	8.2
80°	21.4	18.5	15.6	14.4	12.3	10.3	9.0	8.2	6.6	6.2	5.3
82.5°	14.0	11.1	9.9	8.2	6.6	6.2	5.3	4.1	3.7	3.3	2.9
85°	6.2	5.3	4.5	3.7	2.9	2.5	2.1	1.6	1.6	1.6	1.6
87.5°	2.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-23SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	200°	205°	210°	215°	220°	225°	230°	235°	240°	245°	250°
0°	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3
2.5°	1384.1	1391.5	1398.5	1396.4	1389.0	1377.5	1374.2	1369.7	1373.0	1380.0	1382.8
5°	1393.9	1389.8	1404.6	1426.4	1461.7	1465.0	1489.7	1495.4	1515.2	1527.5	1527.1
7.5°	1407.9	1466.3	1490.5	1516.8	1528.7	1525.8	1529.5	1526.7	1522.1	1520.1	1517.6
10°	1479.0	1523.4	1532.4	1532.4	1513.9	1488.9	1478.2	1459.7	1422.7	1423.5	1417.4
12.5°	1520.5	1536.1	1514.8	1496.7	1422.3	1393.5	1362.3	1347.5	1338.9	1325.7	1330.6
15°	1498.7	1476.5	1463.8	1405.4	1359.8	1308.0	1308.9	1299.8	1290.4	1291.2	1285.0
17.5°	1466.7	1449.0	1358.6	1318.3	1296.1	1276.0	1272.3	1260.4	1254.2	1252.2	1251.7
20°	1422.7	1359.0	1291.6	1281.7	1255.0	1232.0	1228.3	1232.0	1250.9	1217.2	1103.0
22.5°	1371.3	1279.7	1260.0	1232.0	1213.9	1204.9	1227.5	1124.8	969.4	988.3	968.2
25°	1284.2	1244.3	1210.7	1189.3	1187.2	1131.7	943.1	923.4	823.5	770.1	710.1
27.5°	1220.5	1203.3	1167.9	1164.2	1137.5	925.5	827.2	718.7	678.9	672.7	659.6
30°	1181.9	1157.2	1135.9	1042.6	907.8	745.0	663.7	648.5	641.5	634.1	622.6
32.5°	1135.4	1112.0	1122.3	876.6	723.7	641.5	625.1	614.0	601.2	596.3	554.8
35°	1088.2	1077.5	877.0	736.8	622.2	602.4	590.1	578.6	460.3	111.4	37.8
37.5°	1037.6	1035.2	788.2	611.5	582.7	564.2	529.3	109.3	25.9	17.7	13.2
40°	998.2	788.6	623.0	573.3	549.8	520.7	73.1	18.1	11.5	7.0	4.5
42.5°	971.9	709.3	557.7	537.9	487.0	53.8	18.5	7.8	4.5	3.7	2.9
45°	749.2	560.1	521.1	500.5	61.6	18.5	10.7	3.7	2.9	2.5	1.6
47.5°	691.2	508.8	485.7	109.3	20.5	9.9	7.4	2.5	1.6	1.6	1.6
50°	523.5	470.1	386.7	26.7	13.2	7.0	5.3	1.6	1.6	1.6	1.2
52.5°	459.0	434.0	41.5	17.7	10.3	5.3	3.3	1.2	1.2	1.2	1.2
55°	419.6	275.3	24.7	13.6	8.6	4.9	2.1	1.2	1.2	1.2	0.8
57.5°	383.8	37.0	18.1	11.5	7.8	4.5	1.2	1.2	1.2	1.2	0.8
60°	325.5	26.7	14.8	10.3	7.4	4.1	1.2	1.2	1.2	1.2	1.2
62.5°	42.3	21.0	12.7	9.0	5.3	3.3	0.8	1.2	1.2	1.2	1.2
65°	30.8	16.4	11.5	6.2	3.3	1.2	0.8	1.2	1.2	1.2	1.2
67.5°	23.8	13.6	8.6	5.3	2.9	0.8	0.8	1.2	1.2	1.2	1.2
70°	18.9	11.5	7.0	4.5	2.5	0.8	0.8	1.2	1.2	1.2	1.2
72.5°	14.8	8.2	4.9	2.5	1.6	0.8	0.8	1.2	1.2	1.2	1.2
75°	11.1	6.6	3.7	2.1	0.8	0.8	0.8	1.2	1.2	1.2	1.2
77.5°	7.4	4.1	2.9	1.6	1.6	1.6	2.1	2.1	1.2	1.2	1.2
80°	4.9	2.9	2.1	2.1	2.1	1.6	2.1	2.1	1.2	2.1	1.2
82.5°	2.5	2.1	2.1	1.6	1.6	1.2	1.6	1.6	1.6	1.6	1.2
85°	1.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.6	1.6	1.2
87.5°	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.2	1.6	1.6	1.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-23SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	255°	260°	265°	270°	275°	280°	285°	290°	295°	300°	305°
0°	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3
2.5°	1379.1	1380.4	1377.1	1394.8	1385.7	1386.5	1390.2	1380.8	1382.8	1376.3	1371.7
5°	1528.7	1531.2	1533.7	1534.5	1536.1	1538.2	1535.7	1534.5	1532.0	1523.8	1515.2
7.5°	1505.3	1502.4	1501.2	1502.8	1505.7	1506.9	1504.9	1507.8	1518.4	1523.0	1525.8
10°	1382.0	1368.9	1377.9	1376.7	1366.4	1400.9	1391.5	1396.8	1400.5	1438.3	1461.3
12.5°	1323.2	1331.5	1315.9	1308.0	1318.3	1325.3	1332.3	1317.5	1338.0	1328.6	1359.0
15°	1273.9	1269.0	1267.4	1267.8	1265.7	1275.6	1278.0	1281.3	1284.2	1296.9	1301.9
17.5°	1251.7	1260.0	1263.3	1265.7	1261.6	1257.1	1252.6	1246.0	1248.0	1244.8	1254.2
20°	1026.1	998.6	997.0	1013.0	995.3	1005.2	1029.0	1188.5	1183.1	1245.2	1224.2
22.5°	856.4	830.5	808.3	789.0	816.6	828.1	872.4	922.6	1003.9	991.2	1079.6
25°	699.4	690.0	684.2	681.4	683.4	682.6	692.4	715.9	752.9	840.0	952.6
27.5°	654.2	649.7	647.7	641.1	646.0	644.4	652.2	657.1	668.2	676.8	713.4
30°	618.5	613.1	609.4	602.4	607.4	607.8	610.3	623.0	627.5	634.9	646.4
32.5°	226.0	133.1	124.9	118.8	129.9	169.3	297.1	519.4	592.6	598.3	611.5
35°	22.2	18.5	16.4	16.4	16.8	18.5	24.7	64.9	118.8	459.0	574.5
37.5°	8.6	7.4	6.2	5.8	6.2	7.0	9.5	12.3	16.8	34.9	155.7
40°	3.7	3.3	2.9	2.9	2.9	2.9	3.3	4.1	6.2	11.5	18.1
42.5°	2.5	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.9	3.7	7.4
45°	1.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.6	2.1	3.3
47.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.6
50°	1.2	1.2	1.2	1.2	0.8	1.2	0.8	1.2	1.2	1.2	1.2
52.5°	1.2	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.2
55°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.2
57.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
60°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
62.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.2	0.8
65°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.2	0.8
67.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
70°	1.2	1.2	0.8	1.2	0.8	0.8	1.2	1.2	1.2	0.8	0.8
72.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.5	2.5	1.6
75°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.1	2.5	2.1
77.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.1	2.1	2.1
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.6	1.6	1.6
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.6	1.6	1.6
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-23SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	310°	315°	320°	325°	330°	335°	340°	341°	342°	343°	344°
0°	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3
2.5°	1363.9	1363.5	1372.2	1378.7	1376.3	1378.7	1381.6	1382.0	1382.8	1379.5	1378.3
5°	1498.7	1486.0	1461.3	1443.7	1423.1	1385.7	1367.2	1369.3	1369.7	1368.5	1370.1
7.5°	1524.6	1523.4	1514.8	1511.1	1497.1	1470.4	1427.6	1420.2	1402.2	1390.6	1381.2
10°	1459.7	1489.3	1497.1	1510.2	1518.4	1513.5	1477.4	1472.0	1460.5	1447.4	1450.2
12.5°	1389.4	1413.7	1414.9	1486.4	1502.4	1504.1	1490.1	1497.5	1499.1	1469.5	1452.3
15°	1303.1	1314.6	1338.9	1405.4	1453.9	1484.3	1493.4	1497.5	1477.4	1476.1	1469.1
17.5°	1265.3	1272.7	1283.8	1321.2	1394.8	1439.5	1477.8	1474.9	1482.7	1476.9	1459.3
20°	1217.6	1223.8	1243.5	1262.4	1298.6	1358.2	1429.7	1435.0	1445.3	1444.1	1449.0
22.5°	1216.8	1195.0	1198.3	1213.1	1250.9	1304.3	1380.4	1398.0	1404.6	1409.1	1414.5
25°	965.3	1138.3	1170.0	1179.4	1204.1	1235.3	1324.9	1331.5	1343.8	1363.9	1378.7
27.5°	836.3	953.8	1080.4	1146.1	1161.7	1187.6	1241.1	1250.9	1292.8	1297.8	1320.8
30°	660.0	750.8	939.8	1098.1	1123.9	1142.0	1179.8	1199.6	1217.6	1237.4	1261.6
32.5°	620.9	635.3	740.1	908.6	1110.0	1096.4	1124.4	1136.3	1156.0	1173.3	1190.9
35°	585.2	595.1	617.2	744.2	904.1	1059.0	1077.9	1085.7	1096.8	1110.0	1122.7
37.5°	547.8	562.6	577.8	611.9	836.3	1029.4	1029.0	1038.1	1044.6	1055.7	1066.4
40°	99.4	516.6	541.2	563.4	648.5	821.1	983.0	987.1	991.6	998.6	1009.7
42.5°	16.0	86.3	507.1	528.5	552.7	735.2	962.0	945.2	942.3	947.2	957.1
45°	8.2	21.0	101.9	493.5	515.3	586.4	786.6	916.0	913.1	903.7	905.7
47.5°	6.2	13.2	25.1	170.5	482.5	503.4	725.7	717.9	772.6	877.4	861.3
50°	5.3	9.0	14.8	34.9	426.2	463.5	558.9	653.0	681.8	685.5	811.2
52.5°	4.9	6.2	10.7	22.6	89.6	428.6	454.5	487.4	535.9	639.8	637.4
55°	4.5	5.8	9.0	15.2	31.2	386.3	413.0	419.2	429.4	479.2	544.9
57.5°	2.5	5.3	8.6	13.2	23.4	70.7	374.8	379.7	387.9	390.0	413.4
60°	1.2	4.9	7.8	11.5	17.3	32.9	337.0	342.7	347.7	348.5	355.9
62.5°	0.8	4.5	6.6	10.7	14.4	23.4	79.7	162.7	309.4	309.4	318.1
65°	0.8	3.3	4.1	7.0	13.2	19.3	33.7	39.0	76.0	187.0	279.0
67.5°	0.8	1.2	3.7	5.8	9.9	14.8	24.7	28.8	34.5	39.5	73.1
70°	0.8	0.8	3.3	3.7	6.2	11.1	17.7	20.1	23.4	26.7	30.8
72.5°	0.8	0.8	2.9	2.9	4.1	7.4	13.6	14.8	16.8	18.9	21.8
75°	2.1	1.6	2.5	2.5	2.9	5.8	10.3	11.5	12.3	14.0	16.0
77.5°	2.1	2.1	2.1	2.1	2.1	3.7	6.6	7.4	8.6	9.5	11.1
80°	1.6	1.6	1.6	2.1	2.1	2.5	4.1	4.5	4.9	6.2	6.6
82.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.5	2.9	3.7
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.6	1.6	1.6	1.6
87.5°	1.2	1.2	1.2	0.8	0.8	1.2	1.2	1.2	1.2	1.2	1.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-23SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	345°	346°	347°	348°	349°	350°	351°	352°	353°	354°	355°
0°	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3	1369.3
2.5°	1377.9	1375.4	1373.4	1374.6	1370.9	1369.3	1370.5	1370.9	1371.7	1373.8	1374.2
5°	1374.2	1373.4	1377.1	1379.1	1378.3	1379.1	1379.1	1377.5	1375.0	1376.7	1373.0
7.5°	1371.7	1366.4	1362.3	1363.1	1359.0	1363.9	1368.5	1375.0	1377.1	1377.1	1373.0
10°	1414.1	1408.3	1385.3	1369.7	1359.4	1350.4	1371.7	1350.0	1360.2	1321.2	1366.0
12.5°	1449.0	1456.8	1446.5	1403.8	1396.4	1369.3	1384.9	1358.2	1350.4	1305.6	1320.0
15°	1463.0	1448.2	1444.9	1433.0	1416.9	1409.1	1367.2	1362.7	1350.0	1354.9	1336.0
17.5°	1450.6	1458.0	1448.2	1440.4	1423.9	1405.4	1380.4	1358.2	1340.5	1301.1	1334.3
20°	1438.7	1448.6	1419.0	1423.9	1425.6	1404.2	1391.1	1372.6	1350.4	1313.4	1284.6
22.5°	1419.0	1412.0	1414.5	1407.1	1400.9	1403.8	1385.7	1373.0	1335.6	1318.7	1279.7
25°	1386.9	1384.5	1391.1	1390.2	1375.4	1370.5	1361.5	1347.9	1333.1	1306.0	1273.9
27.5°	1334.8	1347.5	1359.0	1364.3	1356.5	1343.4	1338.5	1330.6	1320.4	1292.8	1269.0
30°	1279.7	1294.1	1307.2	1318.7	1325.7	1320.0	1315.4	1310.9	1295.3	1277.2	1250.5
32.5°	1216.8	1235.7	1253.8	1267.8	1283.0	1287.5	1284.2	1280.5	1267.4	1250.9	1229.6
35°	1144.1	1170.0	1196.3	1221.3	1227.9	1238.6	1249.3	1243.1	1236.1	1219.7	1200.0
37.5°	1082.4	1100.9	1119.8	1151.5	1174.5	1188.0	1207.0	1209.4	1197.5	1189.7	1163.8
40°	1018.7	1035.6	1063.1	1081.6	1113.3	1128.9	1149.0	1158.0	1155.2	1150.7	1128.1
42.5°	968.6	976.8	994.9	1011.3	1042.6	1074.6	1092.3	1102.2	1112.4	1108.7	1097.2
45°	915.2	922.6	928.7	943.1	973.5	1001.9	1023.7	1038.5	1057.0	1065.6	1051.6
47.5°	862.2	864.2	871.6	883.5	901.6	923.4	960.0	982.2	999.4	1016.3	1007.2
50°	821.5	814.1	815.3	822.7	837.5	858.9	885.2	916.4	936.1	956.7	958.7
52.5°	717.9	777.9	763.5	767.6	775.5	785.7	813.3	844.1	868.3	886.0	903.7
55°	602.4	614.4	729.8	713.4	718.3	727.4	740.1	770.9	794.4	819.0	843.7
57.5°	467.2	556.0	560.5	667.4	664.9	665.7	676.4	694.1	717.5	748.3	769.3
60°	363.3	400.7	473.4	510.4	604.1	607.4	613.5	623.8	644.0	673.1	706.4
62.5°	320.5	325.5	351.4	406.8	467.7	541.2	554.4	556.0	565.1	594.2	632.9
65°	281.5	284.8	292.6	298.3	349.3	420.4	483.7	494.0	499.7	517.0	549.8
67.5°	194.0	245.3	252.3	256.4	261.4	294.2	372.7	424.9	431.5	446.7	475.5
70°	37.4	77.7	212.5	217.0	219.4	226.8	239.6	322.6	366.2	380.5	393.7
72.5°	25.5	30.0	36.2	85.5	180.8	184.9	187.8	198.5	272.0	314.0	320.9
75°	18.5	20.5	24.2	30.0	37.0	120.4	149.2	154.5	159.9	220.7	256.0
77.5°	13.2	14.8	16.4	19.3	22.6	29.2	41.9	115.5	120.8	123.7	174.7
80°	7.4	9.0	11.1	12.7	14.4	16.4	21.4	26.7	59.6	87.1	91.6
82.5°	4.1	4.9	5.8	7.0	7.8	9.9	11.9	14.4	18.9	27.9	59.2
85°	2.1	2.1	2.1	2.9	3.3	4.5	5.3	6.2	8.6	11.9	16.4
87.5°	1.2	1.2	1.6	1.6	1.6	2.1	2.1	2.1	2.5	3.7	5.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-23SL-RM-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	356°	357°	358°	359°	360°
0°	1369.3	1369.3	1369.3	1369.3	1369.3
2.5°	1374.6	1373.4	1373.4	1378.3	1377.1
5°	1372.2	1370.9	1370.5	1375.9	1373.4
7.5°	1370.1	1365.6	1364.3	1369.3	1367.2
10°	1361.9	1358.6	1360.6	1359.0	1358.2
12.5°	1347.9	1345.9	1337.2	1338.0	1345.0
15°	1322.8	1331.1	1316.3	1329.4	1332.3
17.5°	1276.8	1295.3	1309.7	1317.5	1318.7
20°	1297.4	1303.5	1296.1	1296.5	1301.5
22.5°	1270.6	1273.5	1275.6	1273.1	1283.8
25°	1227.9	1216.8	1240.6	1245.6	1262.8
27.5°	1214.8	1205.7	1216.8	1216.0	1230.4
30°	1204.1	1174.9	1179.8	1187.6	1205.3
32.5°	1188.9	1142.8	1137.9	1155.2	1174.9
35°	1162.2	1118.6	1107.1	1118.2	1147.8
37.5°	1139.6	1084.9	1061.9	1076.7	1115.3
40°	1105.9	1058.6	1022.8	1036.0	1081.6
42.5°	1065.6	1036.0	980.9	990.0	1042.2
45°	1024.9	998.6	940.2	944.8	1006.8
47.5°	983.4	959.2	897.9	898.7	961.6
50°	942.7	910.7	860.1	845.7	913.5
52.5°	889.7	860.1	821.9	798.5	867.9
55°	839.6	806.3	778.3	742.2	816.1
57.5°	790.7	753.7	734.8	688.3	757.4
60°	723.7	706.0	678.1	633.7	704.4
62.5°	655.0	649.3	620.9	574.9	639.0
65°	574.9	588.5	559.3	519.8	571.2
67.5°	499.3	523.5	491.5	467.2	505.9
70°	418.8	446.7	428.6	420.0	436.4
72.5°	339.4	366.6	368.2	362.0	367.4
75°	262.2	292.2	308.6	299.2	300.4
77.5°	198.9	213.3	231.4	238.8	237.1
80°	122.9	147.9	162.7	177.9	172.6
82.5°	62.1	83.0	101.1	117.5	109.7
85°	25.9	33.3	46.4	61.2	58.8
87.5°	7.8	13.2	14.0	19.7	18.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)