

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: **8SNLED-LD5-200HL-RW-UNV-L950-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 (P33525)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNLED-LD5-200HL-RW-UNV-L950-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
WHITE REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

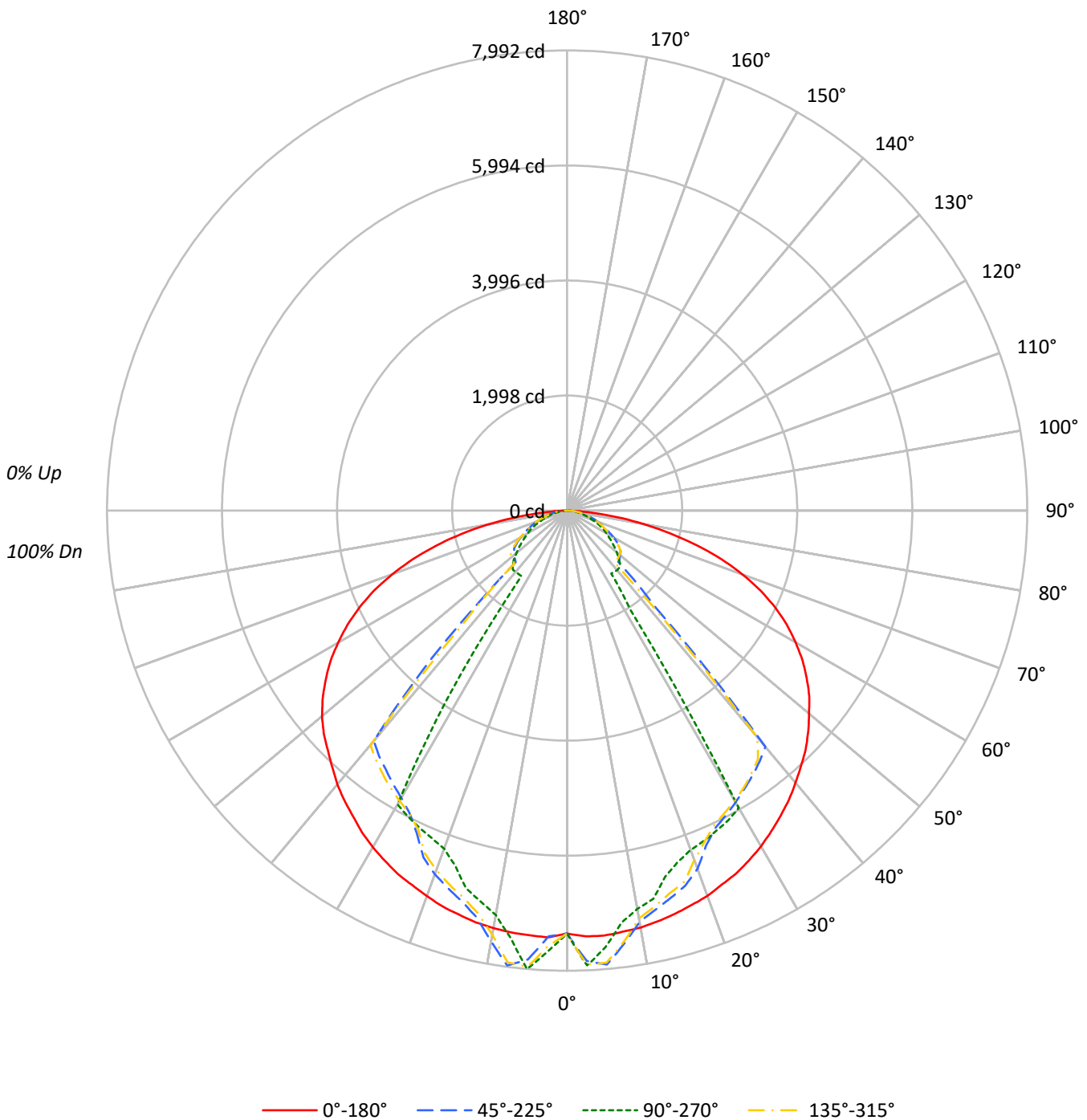
Lumens per Lamp: N/A
Luminaire Lumens: 14709.0 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 158
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



TEST NUMBER: P#
CATALOG NUMBER: 8SNLED-LD5-200HL-RW-UNV-L950-CD1-U

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	99	108	104	101	98	100	97	94	96	94	92	92	91	89	87
2	102	94	88	83	99	93	87	82	89	85	81	86	82	79	83	80	77	75
3	94	84	77	72	91	83	76	71	80	74	70	77	73	69	75	71	67	65
4	87	76	68	62	85	75	67	62	72	66	61	70	65	60	68	63	59	57
5	81	69	61	55	79	68	60	55	66	59	54	64	58	53	62	57	53	51
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47	46
7	70	58	50	44	68	57	49	44	55	48	43	54	48	43	53	47	43	41
8	66	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37
9	62	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	29679	29679	29679	29679
5°	30011	29902	29997	31383
10°	30081	27035	30123	27450
15°	30191	25013	30261	25807
20°	30455	23725	30455	23636
25°	30767	23271	30811	23054
30°	31131	22860	31209	22589
35°	31552	5207	31618	5430
40°	32125	5415	32318	5590
45°	32974	5384	33087	5580
50°	33840	4869	34297	5000
55°	35003	4323	35281	4384
60°	36048	3841	36128	3890
65°	36902	3352	36808	3299
70°	36683	2702	36568	2604
75°	34512	2079	34760	1992
80°	28710	1477	29860	1352
85°	16552	885	17480	678



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	722.7	4.9
10°-20°	1987.0	13.5
20°-30°	2943.2	20.0
30°-40°	2965.5	20.2
40°-50°	2316.5	15.7
50°-60°	1789.4	12.2
60°-70°	1201.4	8.2
70°-80°	612.8	4.2
80°-90°	170.5	1.2
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°	5652.9	38.4
0°-40°	8618.4	58.6
0°-60°	12724.3	86.5
0°-90°	14709.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14709.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	7345	7345	7345	7345	7345	
5°	7409	7615	7406	7992	7409	705
15°	7248	6581	7264	6790	7248	2050
25°	6951	6133	6962	6076	6951	3207
35°	6467	1333	6480	1390	6467	4053
45°	5861	1296	5881	1343	5861	4519
55°	5080	943	5120	956	5080	4537
65°	3989	633	3979	623	3989	3923
75°	2340	320	2356	306	2340	2447
85°	421	101	444	77	421	579
90°	0	0	0	0	0	



TEST NUMBER: P#

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3
2.5°	7402.5	7429.5	7449.7	7463.1	7469.8	7469.8	7473.2	7476.6	7520.3	7540.5	7554.0
5°	7409.3	7436.2	7476.6	7530.4	7577.6	7618.0	7651.6	7698.8	7745.9	7796.4	7813.2
7.5°	7379.0	7412.6	7493.4	7591.0	7681.9	7745.9	7789.6	7819.9	7843.5	7846.9	7863.7
10°	7352.0	7412.6	7523.7	7651.6	7766.1	7843.5	7843.5	7826.7	7850.2	7759.4	7668.5
12.5°	7304.9	7372.2	7523.7	7692.0	7799.7	7830.0	7816.6	7749.3	7611.2	7500.1	7449.7
15°	7247.7	7338.6	7527.1	7715.6	7806.5	7816.6	7688.7	7517.0	7412.6	7345.3	7261.1
17.5°	7183.7	7304.9	7530.4	7719.0	7752.6	7705.5	7463.1	7355.4	7247.7	7089.5	6975.0
20°	7123.1	7240.9	7503.5	7671.8	7692.0	7479.9	7291.4	7177.0	6995.2	6857.2	6806.7
22.5°	7028.9	7166.9	7479.9	7607.9	7530.4	7284.7	7102.9	6921.1	6756.2	6715.8	6655.2
25°	6951.4	7096.2	7426.1	7530.4	7325.1	7106.3	6894.2	6682.1	6604.7	6547.5	6493.6
27.5°	6847.1	7025.5	7355.4	7389.1	7106.3	6914.4	6604.7	6510.5	6439.8	6375.8	6352.2
30°	6732.6	6951.4	7257.8	7193.8	6924.5	6641.7	6412.8	6325.3	6274.8	6207.5	6180.6
32.5°	6601.3	6840.3	7150.0	6968.3	6729.3	6375.8	6227.7	6160.4	6093.0	6042.5	5874.2
35°	6466.7	6742.7	7022.1	6752.8	6493.6	6173.8	6042.5	5981.9	5918.0	5732.8	5557.8
37.5°	6328.7	6635.0	6867.3	6520.5	6180.6	5965.1	5854.0	5786.7	5641.9	5406.3	5318.8
40°	6170.5	6503.7	6668.7	6281.5	5907.9	5753.0	5648.7	5581.3	5254.8	5150.5	5123.5
42.5°	6012.2	6375.8	6426.3	6049.3	5682.3	5527.5	5440.0	5217.8	4995.6	4941.7	4951.8
45°	5860.8	6237.8	6160.4	5719.4	5446.7	5318.8	5170.7	4864.3	4746.5	4773.4	4780.2
47.5°	5679.0	6072.8	5880.9	5389.5	5204.3	5076.4	4746.5	4561.4	4544.5	4581.6	4601.8
50°	5483.7	5887.7	5584.7	5089.9	4941.7	4790.3	4416.6	4322.3	4342.5	4379.6	4403.1
52.5°	5301.9	5679.0	5278.4	4810.5	4682.5	4335.8	4083.3	4100.2	4133.8	4177.6	4191.1
55°	5079.8	5426.5	4951.8	4527.7	4406.5	3952.1	3837.6	3878.0	3911.7	3948.7	3975.6
57.5°	4847.5	5137.0	4564.7	4211.3	4016.0	3612.1	3622.2	3649.1	3672.6	3716.4	1535.0
60°	4581.6	4807.1	4140.6	3918.4	3531.3	3342.7	3352.8	3400.0	3423.5	1912.1	1057.0
62.5°	4305.5	4423.3	3756.8	3585.1	3086.9	3073.4	3120.6	3140.8	2137.6	1009.9	989.7
65°	3989.1	3965.5	3379.8	3107.1	2783.9	2797.4	2847.9	2746.9	945.9	945.9	939.2
67.5°	3639.0	3497.6	3012.9	2571.9	2491.1	2521.4	2575.2	898.8	875.2	882.0	858.4
70°	3238.4	3039.8	2632.5	2178.0	2204.9	2235.2	868.5	814.6	804.5	787.7	740.6
72.5°	2814.2	2541.6	2154.4	1891.9	1908.7	1198.4	760.8	733.9	700.2	666.5	616.0
75°	2339.6	1986.1	1582.2	1582.2	1605.7	683.4	663.2	619.4	582.4	538.6	508.3
77.5°	1834.6	1528.3	1228.7	1275.8	622.8	572.3	535.2	488.1	457.8	430.9	414.1
80°	1343.2	1067.1	925.7	828.1	484.7	434.3	397.2	370.3	356.8	340.0	319.8
82.5°	882.0	643.0	643.0	390.5	340.0	299.6	289.5	269.3	255.8	245.7	235.6
85°	420.8	373.7	282.8	239.0	212.1	191.9	185.1	175.0	175.0	171.7	168.3
87.5°	154.9	168.3	124.6	121.2	114.5	111.1	114.5	114.5	117.8	114.5	111.1
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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CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3
2.5°	7587.7	7614.6	7634.8	7668.5	7712.2	7749.3	7782.9	7830.0	7904.1	7924.3	7941.1
5°	7813.2	7823.3	7846.9	7873.8	7880.5	7897.4	7894.0	7914.2	7924.3	7947.9	7897.4
7.5°	7826.7	7772.8	7708.9	7651.6	7611.2	7574.2	7550.6	7587.7	7607.9	7624.7	7574.2
10°	7543.9	7479.9	7442.9	7409.3	7368.9	7311.6	7234.2	7251.0	7244.3	7244.3	7227.5
12.5°	7365.5	7274.6	7180.3	7096.2	7059.2	7055.8	7059.2	7096.2	7096.2	7092.8	7072.6
15°	7086.1	6998.6	6951.4	6931.2	6931.2	6921.1	6921.1	6961.5	6951.4	6951.4	6941.3
17.5°	6900.9	6840.3	6806.7	6783.1	6773.0	6789.9	6810.1	6826.9	6830.3	6816.8	6762.9
20°	6749.5	6692.2	6651.8	6658.6	6655.2	6665.3	6675.4	6618.2	6547.5	6453.2	6409.5
22.5°	6591.2	6547.5	6517.2	6517.2	6476.8	6412.8	6318.6	6298.4	6288.3	6244.5	6207.5
25°	6439.8	6389.3	6345.5	6210.8	6126.7	6136.8	6120.0	6086.3	6082.9	6079.6	6093.0
27.5°	6288.3	6157.0	5988.7	5968.5	5934.8	5931.4	5951.6	5968.5	5968.5	5981.9	5998.8
30°	5975.2	5823.7	5793.4	5756.4	5769.9	5817.0	5827.1	5850.7	5857.4	5880.9	5894.4
32.5°	5689.1	5621.7	5594.8	5611.6	5655.4	5695.8	5719.4	5729.5	5746.3	5766.5	5783.3
35°	5456.8	5436.6	5460.2	5497.2	5541.0	5574.6	5594.8	5615.0	5631.8	5648.7	5662.1
37.5°	5285.1	5298.6	5332.2	5379.4	5423.1	5450.1	5466.9	5490.5	5514.0	5534.2	5453.4
40°	5123.5	5157.2	5194.2	5244.7	5281.7	5308.7	5325.5	5355.8	5153.8	2332.9	1279.2
42.5°	4982.1	5019.2	5046.1	5086.5	5126.9	5147.1	4999.0	2231.9	1262.4	1255.6	1272.5
45°	4810.5	4840.8	4884.5	4914.8	4951.8	3251.9	1242.2	1255.6	1235.4	1248.9	1255.6
47.5°	4635.4	4682.5	4706.1	4490.7	1336.4	1235.4	1222.0	1235.4	1222.0	1238.8	1228.7
50°	4436.8	4494.0	3198.0	1208.5	1198.4	1191.7	1205.1	1198.4	1208.5	1222.0	1195.0
52.5°	4234.8	2622.4	1171.5	1164.7	1171.5	1164.7	1188.3	1171.5	1174.8	1161.4	1127.7
55°	1434.0	1134.4	1124.3	1121.0	1141.2	1141.2	1141.2	1114.2	1097.4	1063.8	1040.2
57.5°	1097.4	1097.4	1094.1	1097.4	1090.7	1084.0	1053.7	1030.1	1006.5	959.4	945.9
60°	1040.2	1040.2	1040.2	1040.2	1009.9	996.4	949.3	929.1	888.7	865.1	851.7
62.5°	993.1	986.3	956.0	945.9	912.3	875.2	848.3	828.1	787.7	774.3	764.2
65°	925.7	902.2	865.1	824.7	807.9	767.5	754.1	723.8	703.6	693.5	686.7
67.5°	814.6	781.0	750.7	723.8	693.5	680.0	663.2	639.6	626.1	619.4	612.7
70°	696.8	673.3	643.0	626.1	605.9	595.8	572.3	565.5	555.4	545.3	535.2
72.5°	582.4	568.9	555.4	531.9	525.1	518.4	494.8	481.4	467.9	454.5	447.7
75°	488.1	478.0	471.3	451.1	441.0	420.8	404.0	393.9	383.8	373.7	366.9
77.5°	400.6	393.9	373.7	360.2	353.5	336.6	329.9	333.3	326.5	313.1	306.3
80°	313.1	306.3	289.5	289.5	282.8	276.0	269.3	262.6	255.8	245.7	239.0
82.5°	239.0	232.3	225.5	218.8	212.1	208.7	205.3	198.6	191.9	185.1	181.8
85°	168.3	164.9	161.6	158.2	154.9	151.5	148.1	141.4	134.7	131.3	127.9
87.5°	114.5	111.1	107.7	104.4	101.0	97.6	94.3	90.9	84.2	80.8	77.4
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):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3
2.5°	7941.1	7958.0	7941.1	7904.1	7880.5	7870.4	7890.6	7890.6	7904.1	7920.9	7924.3
5°	7816.6	7776.2	7729.1	7681.9	7658.4	7644.9	7607.9	7614.6	7624.7	7631.4	7638.2
7.5°	7506.9	7453.0	7389.1	7328.5	7304.9	7284.7	7240.9	7240.9	7240.9	7244.3	7264.5
10°	7190.4	7166.9	7140.0	7099.6	7069.3	7059.2	7022.1	7032.2	7025.5	7035.6	7059.2
12.5°	7042.3	7015.4	6991.8	6951.4	6917.8	6904.3	6887.5	6897.6	6894.2	6911.0	6931.2
15°	6907.7	6894.2	6867.3	6837.0	6806.7	6779.8	6719.2	6699.0	6685.5	6668.7	6692.2
17.5°	6685.5	6591.2	6527.3	6480.2	6446.5	6422.9	6406.1	6406.1	6416.2	6426.3	6446.5
20°	6382.5	6355.6	6325.3	6274.8	6241.1	6227.7	6217.6	6217.6	6234.4	6247.9	6284.9
22.5°	6173.8	6170.5	6160.4	6136.8	6120.0	6120.0	6123.3	6130.1	6153.6	6173.8	6210.8
25°	6076.2	6089.7	6082.9	6069.5	6059.4	6062.7	6056.0	6062.7	6086.3	6106.5	6136.8
27.5°	5998.8	6019.0	6012.2	5992.0	5975.2	5981.9	5992.0	5985.3	6005.5	6029.1	6052.6
30°	5894.4	5897.8	5911.2	5887.7	5880.9	5891.0	5894.4	5901.1	5921.3	5938.2	5958.4
32.5°	5776.6	5803.5	5800.2	5776.6	5776.6	5786.7	5790.1	5564.5	5143.7	4430.1	4234.8
35°	5662.1	5692.4	5641.9	4756.6	3292.3	1757.2	1356.6	1309.5	1319.6	1326.3	1333.1
37.5°	4187.7	1986.1	1265.7	1275.8	1285.9	1296.0	1306.1	1316.2	1326.3	1336.4	1339.8
40°	1259.0	1255.6	1265.7	1279.2	1289.3	1296.0	1309.5	1319.6	1329.7	1339.8	1343.2
42.5°	1245.5	1252.3	1262.4	1275.8	1289.3	1302.8	1312.9	1326.3	1333.1	1339.8	1343.2
45°	1238.8	1252.3	1265.7	1275.8	1285.9	1292.7	1299.4	1302.8	1299.4	1299.4	1306.1
47.5°	1228.7	1242.2	1245.5	1242.2	1245.5	1242.2	1242.2	1242.2	1232.1	1228.7	1228.7
50°	1191.7	1191.7	1184.9	1171.5	1168.1	1164.7	1158.0	1154.6	1141.2	1137.8	1137.8
52.5°	1114.2	1110.9	1100.8	1084.0	1077.2	1070.5	1067.1	1063.8	1050.3	1043.6	1046.9
55°	1023.4	1016.6	1006.5	986.3	983.0	976.2	972.9	969.5	956.0	962.8	952.7
57.5°	939.2	925.7	912.3	908.9	895.4	892.1	888.7	885.3	875.2	878.6	871.9
60°	838.2	834.8	828.1	814.6	814.6	811.3	811.3	804.5	797.8	794.4	794.4
62.5°	764.2	754.1	747.3	747.3	737.2	737.2	737.2	730.5	723.8	727.1	723.8
65°	683.4	680.0	676.6	669.9	669.9	666.5	666.5	659.8	649.7	653.1	646.3
67.5°	616.0	609.3	602.6	599.2	585.7	579.0	575.6	572.3	558.8	562.2	555.4
70°	531.9	521.8	515.0	508.3	498.2	491.5	491.5	484.7	474.7	478.0	471.3
72.5°	444.4	437.6	430.9	427.5	417.4	414.1	410.7	407.3	397.2	400.6	397.2
75°	370.3	370.3	366.9	363.6	353.5	343.4	336.6	333.3	326.5	329.9	323.2
77.5°	306.3	299.6	292.9	292.9	282.8	276.0	269.3	269.3	269.3	265.9	262.6
80°	239.0	232.3	232.3	228.9	222.2	215.4	212.1	212.1	208.7	208.7	205.3
82.5°	181.8	175.0	171.7	171.7	164.9	161.6	158.2	154.9	154.9	154.9	151.5
85°	127.9	121.2	117.8	117.8	111.1	107.7	107.7	104.4	104.4	101.0	101.0
87.5°	77.4	74.1	70.7	70.7	64.0	60.6	60.6	60.6	57.2	57.2	53.9
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: 8SNLED-LD5-200HL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3
2.5°	7924.3	7924.3	7900.7	7907.5	7897.4	7910.8	7894.0	7894.0	7914.2	7914.2	7927.7
5°	7641.5	7624.7	7621.3	7614.6	7580.9	7594.4	7577.6	7560.7	7584.3	7584.3	7614.6
7.5°	7254.4	7224.1	7237.6	7217.4	7197.2	7166.9	7177.0	7163.5	7180.3	7203.9	7234.2
10°	7055.8	7028.9	7045.7	7025.5	7035.6	6991.8	6995.2	6998.6	7015.4	7022.1	7049.1
12.5°	6927.9	6921.1	6914.4	6907.7	6914.4	6890.8	6877.4	6880.7	6887.5	6890.8	6911.0
15°	6658.6	6614.8	6628.3	6581.1	6584.5	6587.9	6560.9	6587.9	6584.5	6628.3	6668.7
17.5°	6439.8	6439.8	6416.2	6396.0	6382.5	6379.2	6359.0	6372.4	6359.0	6385.9	6396.0
20°	6288.3	6284.9	6281.5	6271.4	6237.8	6241.1	6251.2	6220.9	6217.6	6214.2	6234.4
22.5°	6217.6	6220.9	6207.5	6207.5	6177.2	6183.9	6187.3	6153.6	6157.0	6146.9	6157.0
25°	6143.5	6150.3	6133.4	6133.4	6126.7	6123.3	6106.5	6113.2	6093.0	6076.2	6093.0
27.5°	6056.0	6069.5	6056.0	6062.7	6049.3	6042.5	6032.4	6025.7	6005.5	6002.1	6012.2
30°	5975.2	5981.9	5978.6	5961.7	5958.4	5938.2	5948.3	5928.1	5907.9	5911.2	5918.0
32.5°	3063.3	2925.3	2255.4	2036.6	2016.4	2090.5	2477.6	3016.2	3908.3	4773.4	5396.2
35°	1336.4	1336.4	1336.4	1333.1	1333.1	1329.7	1326.3	1323.0	1319.6	1316.2	1312.9
37.5°	1343.2	1343.2	1343.2	1343.2	1339.8	1336.4	1336.4	1329.7	1326.3	1323.0	1319.6
40°	1346.5	1349.9	1349.9	1349.9	1346.5	1346.5	1343.2	1336.4	1333.1	1326.3	1319.6
42.5°	1343.2	1346.5	1346.5	1343.2	1343.2	1339.8	1339.8	1336.4	1333.1	1329.7	1326.3
45°	1299.4	1302.8	1296.0	1296.0	1292.7	1292.7	1292.7	1292.7	1292.7	1296.0	1296.0
47.5°	1222.0	1222.0	1218.6	1215.2	1215.2	1211.9	1215.2	1211.9	1218.6	1222.0	1228.7
50°	1131.1	1131.1	1124.3	1121.0	1121.0	1121.0	1121.0	1124.3	1127.7	1134.4	1141.2
52.5°	1036.8	1036.8	1033.5	1030.1	1026.7	1026.7	1036.8	1033.5	1036.8	1040.2	1050.3
55°	945.9	949.3	942.6	942.6	939.2	939.2	939.2	942.6	945.9	949.3	959.4
57.5°	868.5	868.5	861.8	861.8	861.8	858.4	868.5	861.8	865.1	868.5	875.2
60°	791.1	787.7	787.7	784.4	784.4	784.4	791.1	787.7	787.7	791.1	797.8
62.5°	720.4	720.4	717.0	717.0	713.7	713.7	720.4	717.0	717.0	720.4	723.8
65°	639.6	639.6	636.2	632.9	643.0	632.9	643.0	636.2	643.0	646.3	653.1
67.5°	548.7	548.7	548.7	545.3	545.3	552.1	555.4	548.7	552.1	558.8	562.2
70°	467.9	467.9	464.6	464.6	464.6	471.3	474.7	467.9	471.3	474.7	481.4
72.5°	397.2	390.5	390.5	387.1	393.9	393.9	397.2	393.9	397.2	397.2	404.0
75°	326.5	319.8	319.8	319.8	326.5	323.2	326.5	323.2	326.5	326.5	329.9
77.5°	262.6	259.2	255.8	255.8	262.6	262.6	262.6	259.2	262.6	265.9	269.3
80°	205.3	202.0	198.6	198.6	205.3	205.3	205.3	208.7	205.3	208.7	212.1
82.5°	151.5	148.1	144.8	151.5	151.5	151.5	151.5	154.9	151.5	154.9	158.2
85°	101.0	97.6	94.3	101.0	101.0	101.0	101.0	104.4	101.0	104.4	107.7
87.5°	53.9	50.5	50.5	53.9	53.9	53.9	57.2	57.2	57.2	60.6	60.6
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: 8SNLED-LD5-200HL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3
2.5°	7947.9	7958.0	7954.6	7934.4	7914.2	7890.6	7873.8	7877.2	7910.8	7920.9	7890.6
5°	7614.6	7678.6	7678.6	7722.3	7698.8	7678.6	7692.0	7766.1	7803.1	7860.3	7880.5
7.5°	7271.2	7301.5	7298.2	7341.9	7335.2	7335.2	7345.3	7442.9	7490.0	7537.2	7550.6
10°	7079.4	7109.7	7106.3	7109.7	7099.6	7076.0	7076.0	7119.8	7160.1	7183.7	7190.4
12.5°	6941.3	6958.2	6954.8	6954.8	6948.1	6927.9	6924.5	6961.5	7005.3	7035.6	7039.0
15°	6736.0	6783.1	6793.2	6837.0	6826.9	6800.0	6806.7	6837.0	6863.9	6890.8	6880.7
17.5°	6429.7	6453.2	6456.6	6473.4	6466.7	6466.7	6507.1	6618.2	6692.2	6756.2	6762.9
20°	6254.6	6271.4	6264.7	6301.7	6284.9	6281.5	6291.6	6338.8	6372.4	6402.7	6456.6
22.5°	6170.5	6183.9	6173.8	6177.2	6146.9	6120.0	6113.2	6150.3	6187.3	6227.7	6227.7
25°	6099.8	6109.9	6106.5	6099.8	6076.2	6039.2	6032.4	6039.2	6052.6	6056.0	6032.4
27.5°	6015.6	6022.3	6022.3	6025.7	5995.4	5961.7	5955.0	5948.3	5961.7	5958.4	5921.3
30°	5928.1	5918.0	5921.3	5924.7	5897.8	5867.5	5854.0	5850.7	5864.1	5860.8	5823.7
32.5°	5719.4	5796.8	5803.5	5810.3	5786.7	5759.8	5746.3	5736.2	5742.9	5739.6	5705.9
35°	1309.5	1333.1	1632.7	3696.2	5019.2	5557.8	5615.0	5601.5	5604.9	5604.9	5578.0
37.5°	1312.9	1309.5	1306.1	1296.0	1285.9	1279.2	2211.7	4716.2	5463.5	5466.9	5443.3
40°	1312.9	1309.5	1306.1	1299.4	1285.9	1275.8	1259.0	1245.5	1275.8	2807.5	5137.0
42.5°	1319.6	1312.9	1306.1	1299.4	1285.9	1272.5	1259.0	1242.2	1252.3	1245.5	1228.7
45°	1299.4	1296.0	1296.0	1292.7	1285.9	1272.5	1255.6	1235.4	1225.3	1235.4	1218.6
47.5°	1235.4	1238.8	1248.9	1252.3	1252.3	1255.6	1245.5	1232.1	1215.2	1225.3	1205.1
50°	1147.9	1154.6	1158.0	1174.8	1181.6	1195.0	1198.4	1198.4	1195.0	1208.5	1195.0
52.5°	1053.7	1060.4	1077.2	1084.0	1090.7	1110.9	1117.6	1127.7	1134.4	1154.6	1168.1
55°	962.8	966.1	972.9	986.3	996.4	1013.3	1023.4	1033.5	1050.3	1060.4	1100.8
57.5°	878.6	882.0	895.4	898.8	905.5	919.0	929.1	942.6	956.0	962.8	1009.9
60°	797.8	801.2	811.3	814.6	818.0	831.5	841.6	851.7	861.8	868.5	902.2
62.5°	727.1	727.1	737.2	737.2	740.6	750.7	757.4	764.2	774.3	777.6	794.4
65°	656.4	659.8	666.5	666.5	669.9	676.6	680.0	683.4	693.5	693.5	706.9
67.5°	568.9	572.3	582.4	589.1	592.5	605.9	609.3	612.7	619.4	622.8	629.5
70°	484.7	488.1	498.2	501.6	504.9	515.0	521.8	531.9	542.0	552.1	558.8
72.5°	407.3	410.7	420.8	420.8	430.9	434.3	441.0	444.4	454.5	461.2	471.3
75°	333.3	336.6	346.7	346.7	356.8	360.2	363.6	366.9	373.7	380.4	387.1
77.5°	272.7	272.7	286.1	292.9	299.6	299.6	303.0	303.0	303.0	306.3	313.1
80°	215.4	215.4	225.5	232.3	239.0	239.0	242.4	245.7	249.1	249.1	252.5
82.5°	161.6	161.6	171.7	175.0	181.8	181.8	181.8	185.1	188.5	185.1	191.9
85°	111.1	111.1	117.8	121.2	127.9	127.9	127.9	131.3	134.7	131.3	134.7
87.5°	64.0	67.3	70.7	74.1	77.4	80.8	80.8	80.8	84.2	84.2	87.5
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: 8SNLED-LD5-200HL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3
2.5°	7857.0	7816.6	7813.2	7766.1	7752.6	7756.0	7719.0	7705.5	7644.9	7631.4	7567.5
5°	7887.3	7907.5	7897.4	7894.0	7904.1	7897.4	7870.4	7857.0	7846.9	7819.9	7766.1
7.5°	7554.0	7567.5	7577.6	7621.3	7658.4	7722.3	7789.6	7833.4	7867.1	7873.8	7830.0
10°	7214.0	7278.0	7321.7	7389.1	7442.9	7479.9	7520.3	7557.4	7655.0	7752.6	7809.8
12.5°	7039.0	7055.8	7052.4	7089.5	7126.5	7224.1	7318.4	7372.2	7446.3	7490.0	7594.4
15°	6890.8	6894.2	6904.3	6931.2	6951.4	6985.1	7028.9	7109.7	7257.8	7325.1	7382.3
17.5°	6756.2	6756.2	6762.9	6786.5	6813.4	6843.7	6870.6	6904.3	6978.4	7089.5	7230.8
20°	6540.7	6635.0	6645.1	6641.7	6655.2	6712.4	6719.2	6779.8	6816.8	6860.5	6998.6
22.5°	6220.9	6278.2	6359.0	6483.5	6530.6	6557.6	6577.8	6604.7	6661.9	6712.4	6769.7
25°	6045.9	6082.9	6106.5	6143.5	6241.1	6399.4	6429.7	6460.0	6497.0	6534.0	6604.7
27.5°	5891.0	5887.7	5904.5	5938.2	5965.1	6049.3	6197.4	6315.2	6321.9	6375.8	6436.4
30°	5780.0	5759.8	5736.2	5729.5	5766.5	5810.3	5854.0	6039.2	6167.1	6194.0	6258.0
32.5°	5675.6	5641.9	5608.3	5581.3	5557.8	5594.8	5621.7	5702.5	5867.5	6022.3	6056.0
35°	5547.7	5514.0	5473.6	5443.3	5406.3	5402.9	5399.6	5477.0	5530.9	5716.0	5877.6
37.5°	5416.4	5379.4	5345.7	5312.0	5275.0	5248.1	5231.3	5251.4	5301.9	5382.7	5652.0
40°	5278.4	5234.6	5201.0	5174.0	5123.5	5103.3	5069.7	5056.2	5059.6	5130.3	5271.6
42.5°	3154.2	5029.3	5046.1	5015.8	4972.0	4945.1	4908.1	4891.3	4857.6	4891.3	4972.0
45°	1215.2	1228.7	3679.4	4861.0	4807.1	4773.4	4739.8	4722.9	4685.9	4659.0	4733.0
47.5°	1191.7	1205.1	1178.2	1669.7	4588.3	4598.4	4558.0	4541.2	4504.1	4483.9	4463.7
50°	1174.8	1184.9	1164.7	1171.5	1147.9	4204.5	4372.8	4352.6	4312.2	4288.7	4248.3
52.5°	1158.0	1158.0	1144.5	1127.7	1121.0	1124.3	3538.0	4160.8	4113.6	4090.1	4036.2
55°	1104.2	1110.9	1124.3	1097.4	1090.7	1087.3	1077.2	3369.7	3894.8	3867.9	3820.8
57.5°	1023.4	1036.8	1073.9	1067.1	1067.1	1040.2	1033.5	1033.5	3127.3	3642.4	3595.2
60°	929.1	942.6	983.0	996.4	1006.5	999.8	993.1	989.7	976.2	3295.6	3356.2
62.5°	831.5	844.9	858.4	902.2	915.6	932.5	952.7	942.6	929.1	929.1	3103.7
65°	727.1	747.3	754.1	794.4	811.3	841.6	858.4	882.0	875.2	871.9	888.7
67.5°	636.2	659.8	663.2	680.0	710.3	723.8	744.0	787.7	807.9	814.6	821.4
70°	558.8	572.3	582.4	589.1	609.3	612.7	649.7	680.0	710.3	744.0	754.1
72.5°	481.4	491.5	511.7	504.9	511.7	525.1	545.3	565.5	595.8	643.0	673.3
75°	393.9	400.6	414.1	420.8	434.3	444.4	457.8	474.7	501.6	525.1	565.5
77.5°	316.4	319.8	329.9	333.3	346.7	356.8	380.4	390.5	407.3	424.2	447.7
80°	255.8	255.8	259.2	259.2	269.3	279.4	296.2	306.3	326.5	340.0	340.0
82.5°	195.2	195.2	205.3	205.3	212.1	212.1	222.2	222.2	232.3	239.0	245.7
85°	138.0	141.4	148.1	144.8	151.5	148.1	154.9	161.6	164.9	161.6	158.2
87.5°	90.9	90.9	97.6	94.3	97.6	97.6	104.4	104.4	107.7	107.7	104.4
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: 8SNLED-LD5-200HL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3
2.5°	7543.9	7493.4	7463.1	7426.1	7416.0	7405.9	7419.4	7419.4	7399.2	7382.3	7352.0
5°	7719.0	7665.1	7607.9	7547.3	7490.0	7429.5	7405.9	7402.5	7365.5	7345.3	7335.2
7.5°	7809.8	7782.9	7719.0	7634.8	7547.3	7439.6	7392.4	7365.5	7328.5	7321.7	7321.7
10°	7819.9	7789.6	7756.0	7695.4	7594.4	7453.0	7362.1	7308.3	7274.6	7298.2	7341.9
12.5°	7722.3	7779.6	7749.3	7708.9	7628.1	7456.4	7325.1	7244.3	7234.2	7294.8	7409.3
15°	7473.2	7641.5	7725.7	7685.3	7621.3	7449.7	7264.5	7170.2	7170.2	7294.8	7442.9
17.5°	7284.7	7416.0	7621.3	7655.0	7580.9	7436.2	7207.3	7096.2	7126.5	7308.3	7466.5
20°	7129.9	7210.6	7409.3	7597.8	7527.1	7405.9	7123.1	7008.7	7069.3	7288.1	7500.1
22.5°	6887.5	7049.1	7170.2	7449.7	7473.2	7348.7	7039.0	6900.9	7022.1	7288.1	7483.3
25°	6651.8	6847.1	6975.0	7247.7	7392.4	7278.0	6961.5	6786.5	6971.6	7278.0	7469.8
27.5°	6486.9	6577.8	6810.1	7005.3	7271.2	7183.7	6857.2	6661.9	6907.7	7224.1	7392.4
30°	6311.8	6372.4	6601.3	6786.5	7109.7	7076.0	6749.5	6523.9	6826.9	7173.6	7190.4
32.5°	6120.0	6187.3	6305.1	6574.4	6884.1	6975.0	6628.3	6385.9	6739.4	7096.2	6954.8
35°	5924.7	5975.2	6069.5	6359.0	6621.5	6823.5	6480.2	6227.7	6678.8	6978.4	6729.3
37.5°	5729.5	5783.3	5864.1	6106.5	6345.5	6682.1	6352.2	6069.5	6567.7	6769.7	6493.6
40°	5544.3	5574.6	5658.8	5810.3	6116.6	6537.4	6207.5	5904.5	6453.2	6503.7	6173.8
42.5°	5204.3	5355.8	5433.2	5554.4	5857.4	6338.8	6039.2	5729.5	6325.3	6237.8	5854.0
45°	4837.4	5167.3	5201.0	5322.1	5628.5	6126.7	5880.9	5557.8	6204.1	6008.9	5551.1
47.5°	4537.8	4776.8	4972.0	5073.0	5355.8	5877.6	5732.8	5413.0	6022.3	5719.4	5254.8
50°	4271.9	4399.8	4753.2	4827.3	5029.3	5578.0	5557.8	5244.7	5769.9	5355.8	4965.3
52.5°	4012.6	4103.5	4423.3	4581.6	4746.5	5254.8	5349.1	5079.8	5493.8	4992.2	4672.4
55°	3787.1	3817.4	3992.4	4325.7	4473.8	4928.3	5120.2	4887.9	5143.7	4645.5	4389.7
57.5°	3554.8	3527.9	3655.8	4083.3	4191.1	4595.0	4877.8	4692.6	4861.0	4292.0	4096.8
60°	3312.5	3275.4	3329.3	3612.1	3891.5	4265.1	4591.7	4477.2	4517.6	3942.0	3770.3
62.5°	3060.0	3022.9	3006.1	3184.5	3598.6	3925.1	4302.1	4238.2	4096.8	3622.2	3366.3
65°	2797.4	2760.4	2733.4	2804.1	3275.4	3484.1	3979.0	3962.2	3635.6	3285.5	2834.4
67.5°	851.7	2511.3	2454.0	2450.7	2760.4	3083.5	3628.9	3602.0	3171.1	2925.3	2440.6
70°	767.5	2036.6	2164.5	2134.2	2268.9	2676.2	3228.3	3208.1	2720.0	2346.3	2157.8
72.5°	703.6	720.4	1912.1	1878.4	1908.7	2275.6	2810.9	2757.0	2305.9	1851.5	1864.9
75°	602.6	632.9	659.8	1585.5	1545.1	1885.1	2356.4	2272.3	1902.0	1528.3	1558.6
77.5°	491.5	528.5	548.7	1154.6	1248.9	1343.2	1881.8	1770.7	1309.5	1222.0	582.4
80°	366.9	397.2	430.9	461.2	949.3	939.2	1397.0	1285.9	912.3	760.8	454.5
82.5°	269.3	279.4	299.6	333.3	377.0	629.5	898.8	791.1	632.9	346.7	313.1
85°	168.3	181.8	191.9	202.0	228.9	377.0	444.4	353.5	265.9	212.1	198.6
87.5°	107.7	107.7	104.4	107.7	111.1	134.7	151.5	144.8	114.5	107.7	107.7
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: 8SNLED-LD5-200HL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3
2.5°	7318.4	7271.2	7271.2	7257.8	7267.9	7267.9	7264.5	7267.9	7291.4	7304.9	7328.5
5°	7315.0	7301.5	7331.8	7368.9	7412.6	7466.5	7479.9	7527.1	7570.8	7628.1	7688.7
7.5°	7358.8	7405.9	7463.1	7523.7	7611.2	7675.2	7732.4	7789.6	7830.0	7883.9	7917.6
10°	7422.7	7517.0	7614.6	7692.0	7786.3	7840.1	7877.2	7883.9	7826.7	7735.8	7661.7
12.5°	7513.6	7624.7	7715.6	7789.6	7833.4	7813.2	7705.5	7594.4	7530.4	7436.2	7304.9
15°	7591.0	7692.0	7786.3	7756.0	7638.2	7527.1	7442.9	7311.6	7183.7	7096.2	7039.0
17.5°	7624.7	7722.3	7688.7	7530.4	7419.4	7291.4	7119.8	7018.8	6934.6	6867.3	6833.6
20°	7644.9	7628.1	7446.3	7331.8	7116.4	6998.6	6887.5	6793.2	6729.3	6695.6	6688.9
22.5°	7591.0	7385.7	7230.8	7025.5	6867.3	6769.7	6682.1	6604.7	6560.9	6534.0	6517.2
25°	7412.6	7173.6	6944.7	6783.1	6648.5	6564.3	6497.0	6433.0	6379.2	6365.7	6332.0
27.5°	7163.5	6968.3	6665.3	6540.7	6422.9	6382.5	6308.5	6244.5	6197.4	6157.0	6049.3
30°	6958.2	6648.5	6429.7	6315.2	6244.5	6197.4	6113.2	6045.9	5965.1	5817.0	5756.4
32.5°	6705.7	6399.4	6190.7	6126.7	6039.2	5998.8	5904.5	5756.4	5631.8	5571.2	5567.9
35°	6379.2	6126.7	5975.2	5918.0	5847.3	5780.0	5584.7	5450.1	5389.5	5396.2	5446.7
37.5°	6106.5	5880.9	5783.3	5702.5	5621.7	5450.1	5285.1	5221.2	5238.0	5271.6	5295.2
40°	5830.5	5658.8	5547.7	5483.7	5301.9	5133.6	5046.1	5069.7	5100.0	5123.5	5153.8
42.5°	5561.1	5440.0	5328.9	5204.3	4955.2	4864.3	4884.5	4914.8	4941.7	4975.4	5005.7
45°	5305.3	5197.6	5069.7	4786.9	4662.3	4685.9	4716.2	4739.8	4780.2	4803.7	4834.0
47.5°	5062.9	4948.5	4722.9	4473.8	4460.4	4507.5	4534.4	4564.7	4595.0	4534.4	2501.2
50°	4790.3	4672.4	4329.1	4234.8	4265.1	4308.9	4342.5	4372.8	3894.8	1548.5	1191.7
52.5°	4521.0	4221.4	4002.5	4029.5	4059.8	4110.3	4133.8	3070.1	1222.0	1164.7	1168.1
55°	4221.4	3837.6	3773.6	3807.3	3834.2	3884.7	2575.2	1127.7	1121.0	1117.6	1144.5
57.5°	3750.1	3517.8	3544.7	3578.4	3605.3	2544.9	1097.4	1090.7	1094.1	1097.4	1100.8
60°	3329.3	3278.8	3309.1	3339.4	2363.2	1060.4	1040.2	1043.6	1057.0	1046.9	1020.0
62.5°	2996.0	3036.4	3066.7	2686.3	1006.5	996.4	1006.5	996.4	972.9	956.0	922.4
65°	2740.2	2780.6	2804.1	945.9	942.6	956.0	945.9	912.3	875.2	828.1	818.0
67.5°	2470.9	2511.3	898.8	875.2	888.7	871.9	831.5	791.1	764.2	723.8	706.9
70°	2191.5	939.2	814.6	811.3	787.7	760.8	717.0	676.6	643.0	626.1	609.3
72.5°	1582.2	744.0	733.9	706.9	666.5	629.5	592.5	568.9	552.1	542.0	531.9
75°	659.8	646.3	616.0	568.9	528.5	511.7	484.7	467.9	461.2	441.0	434.3
77.5°	552.1	525.1	481.4	447.7	424.2	414.1	393.9	373.7	363.6	360.2	346.7
80°	424.2	387.1	366.9	350.1	343.4	319.8	296.2	286.1	279.4	276.0	265.9
82.5°	289.5	276.0	262.6	239.0	239.0	228.9	218.8	212.1	205.3	205.3	198.6
85°	188.5	178.4	175.0	164.9	164.9	158.2	154.9	151.5	148.1	144.8	141.4
87.5°	107.7	107.7	111.1	107.7	107.7	104.4	101.0	97.6	94.3	94.3	87.5
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: 8SNLED-LD5-200HL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3
2.5°	7358.8	7392.4	7399.2	7513.6	7577.6	7574.2	7554.0	7614.6	7577.6	7557.4	7577.6
5°	7749.3	7789.6	7823.3	7947.9	7991.6	8011.8	8008.5	8042.1	8015.2	7991.6	7991.6
7.5°	7941.1	7954.6	7968.1	7937.8	7917.6	7883.9	7833.4	7759.4	7722.3	7681.9	7631.4
10°	7624.7	7580.9	7597.8	7537.2	7486.7	7449.7	7402.5	7341.9	7291.4	7254.4	7197.2
12.5°	7237.6	7234.2	7240.9	7251.0	7200.5	7170.2	7133.2	7089.5	7052.4	7012.0	6964.9
15°	7001.9	7005.3	7032.2	7022.1	7005.3	6988.5	6948.1	6934.6	6900.9	6857.2	6830.3
17.5°	6833.6	6850.4	6877.4	6863.9	6837.0	6820.2	6789.9	6759.6	6729.3	6695.6	6655.2
20°	6685.5	6702.3	6719.2	6702.3	6651.8	6628.3	6587.9	6493.6	6426.3	6359.0	6298.4
22.5°	6523.9	6534.0	6520.5	6466.7	6338.8	6278.2	6231.0	6204.1	6146.9	6109.9	6072.8
25°	6321.9	6264.7	6177.2	6116.6	6066.1	6039.2	6019.0	6015.6	6008.9	6002.1	5985.3
27.5°	5992.0	5971.8	5924.7	5901.1	5904.5	5914.6	5918.0	5928.1	5918.0	5904.5	5891.0
30°	5746.3	5756.4	5759.8	5766.5	5783.3	5793.4	5796.8	5810.3	5803.5	5793.4	5786.7
32.5°	5591.4	5615.0	5628.5	5648.7	5658.8	5675.6	5675.6	5695.8	5675.6	5672.2	5665.5
35°	5463.5	5483.7	5490.5	5520.8	5530.9	5547.7	5547.7	5564.5	5547.7	5376.0	4244.9
37.5°	5335.6	5355.8	5369.3	5396.2	5399.6	5409.7	4992.2	3652.5	2356.4	1824.5	1393.7
40°	5184.1	5207.7	5221.2	5231.3	3676.0	2332.9	1605.7	1306.1	1306.1	1316.2	1326.3
42.5°	5022.5	5039.4	3511.1	2043.4	1272.5	1269.1	1279.2	1289.3	1299.4	1312.9	1326.3
45°	3948.7	1992.9	1265.7	1235.4	1245.5	1259.0	1272.5	1285.9	1302.8	1316.2	1323.0
47.5°	1296.0	1215.2	1232.1	1218.6	1235.4	1252.3	1265.7	1279.2	1282.6	1285.9	1282.6
50°	1198.4	1198.4	1208.5	1208.5	1222.0	1228.7	1228.7	1228.7	1215.2	1211.9	1201.8
52.5°	1158.0	1184.9	1171.5	1178.2	1171.5	1161.4	1151.3	1141.2	1121.0	1114.2	1100.8
55°	1137.8	1147.9	1114.2	1104.2	1090.7	1063.8	1050.3	1036.8	1020.0	1013.3	996.4
57.5°	1090.7	1067.1	1030.1	1013.3	989.7	962.8	949.3	939.2	922.4	915.6	905.5
60°	1003.2	956.0	932.5	912.3	885.3	861.8	851.7	844.9	831.5	828.1	818.0
62.5°	895.4	855.0	834.8	807.9	787.7	774.3	764.2	760.8	747.3	747.3	740.6
65°	777.6	757.4	740.6	713.7	703.6	690.1	686.7	683.4	676.6	673.3	666.5
67.5°	683.4	669.9	646.3	632.9	626.1	616.0	609.3	602.6	589.1	582.4	572.3
70°	599.2	589.1	565.5	555.4	542.0	525.1	515.0	508.3	498.2	491.5	481.4
72.5°	518.4	488.1	471.3	461.2	451.1	434.3	430.9	424.2	414.1	410.7	400.6
75°	417.4	393.9	383.8	377.0	366.9	356.8	356.8	356.8	346.7	343.4	340.0
77.5°	333.3	319.8	313.1	306.3	303.0	296.2	286.1	282.8	272.7	272.7	269.3
80°	255.8	249.1	242.4	239.0	235.6	228.9	222.2	218.8	208.7	208.7	205.3
82.5°	188.5	185.1	181.8	178.4	175.0	171.7	161.6	158.2	151.5	151.5	148.1
85°	134.7	131.3	124.6	121.2	121.2	117.8	107.7	104.4	97.6	97.6	97.6
87.5°	84.2	80.8	77.4	74.1	70.7	67.3	60.6	57.2	57.2	50.5	47.1
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: 8SNLED-LD5-200HL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3
2.5°	7537.2	7594.4	7587.7	7628.1	7638.2	7658.4	7665.1	7668.5	7618.0	7658.4	7661.7
5°	7981.5	7991.6	7998.4	8015.2	8032.0	8035.4	8018.6	7998.4	8005.1	7991.6	7958.0
7.5°	7624.7	7574.2	7564.1	7550.6	7543.9	7537.2	7506.9	7533.8	7503.5	7490.0	7442.9
10°	7187.1	7140.0	7136.6	7136.6	7146.7	7143.3	7136.6	7123.1	7150.0	7133.2	7123.1
12.5°	6958.2	6941.3	6951.4	6944.7	6971.6	6978.4	6971.6	6971.6	6964.9	6951.4	6958.2
15°	6820.2	6806.7	6816.8	6806.7	6826.9	6830.3	6813.4	6823.5	6806.7	6789.9	6783.1
17.5°	6638.4	6608.1	6584.5	6550.8	6554.2	6547.5	6527.3	6527.3	6510.5	6466.7	6470.1
20°	6288.3	6258.0	6244.5	6244.5	6261.3	6268.1	6264.7	6271.4	6254.6	6247.9	6220.9
22.5°	6069.5	6066.1	6072.8	6089.7	6116.6	6153.6	6157.0	6157.0	6157.0	6153.6	6120.0
25°	5992.0	5992.0	5998.8	6022.3	6042.5	6069.5	6076.2	6082.9	6076.2	6076.2	6045.9
27.5°	5904.5	5897.8	5911.2	5934.8	5958.4	5978.6	5995.4	5998.8	5988.7	5988.7	5998.8
30°	5796.8	5793.4	5810.3	5833.8	5854.0	5874.2	5891.0	5904.5	5891.0	5891.0	5880.9
32.5°	5685.7	5685.7	5692.4	5551.1	5147.1	4635.4	4645.5	4349.3	4143.9	3884.7	4228.1
35°	3548.1	2582.0	2218.4	1878.4	1639.4	1484.5	1481.2	1430.7	1407.1	1390.3	1386.9
37.5°	1339.8	1346.5	1360.0	1366.7	1376.8	1383.6	1386.9	1386.9	1386.9	1386.9	1383.6
40°	1336.4	1349.9	1360.0	1370.1	1380.2	1386.9	1386.9	1390.3	1393.7	1393.7	1393.7
42.5°	1339.8	1353.3	1366.7	1376.8	1383.6	1386.9	1390.3	1393.7	1393.7	1393.7	1393.7
45°	1336.4	1343.2	1343.2	1346.5	1346.5	1346.5	1349.9	1349.9	1346.5	1343.2	1349.9
47.5°	1285.9	1285.9	1275.8	1272.5	1269.1	1262.4	1265.7	1262.4	1259.0	1255.6	1262.4
50°	1198.4	1184.9	1178.2	1171.5	1168.1	1161.4	1164.7	1161.4	1158.0	1151.3	1161.4
52.5°	1094.1	1090.7	1077.2	1070.5	1067.1	1070.5	1063.8	1060.4	1057.0	1053.7	1057.0
55°	993.1	979.6	976.2	969.5	966.1	969.5	966.1	962.8	959.4	956.0	959.4
57.5°	902.2	892.1	888.7	882.0	882.0	882.0	882.0	878.6	875.2	871.9	875.2
60°	814.6	807.9	804.5	804.5	801.2	801.2	801.2	797.8	794.4	794.4	797.8
62.5°	740.6	740.6	730.5	727.1	727.1	730.5	727.1	723.8	720.4	717.0	723.8
65°	663.2	649.7	646.3	639.6	632.9	636.2	632.9	629.5	626.1	622.8	629.5
67.5°	568.9	565.5	552.1	545.3	542.0	545.3	542.0	538.6	535.2	531.9	538.6
70°	478.0	478.0	464.6	461.2	457.8	457.8	454.5	454.5	451.1	447.7	454.5
72.5°	397.2	397.2	393.9	387.1	383.8	380.4	377.0	373.7	373.7	377.0	377.0
75°	329.9	323.2	309.7	313.1	309.7	306.3	306.3	303.0	299.6	306.3	303.0
77.5°	259.2	255.8	245.7	249.1	245.7	242.4	242.4	239.0	235.6	239.0	239.0
80°	195.2	195.2	191.9	188.5	188.5	185.1	181.8	181.8	178.4	181.8	181.8
82.5°	141.4	141.4	138.0	134.7	131.3	131.3	127.9	127.9	127.9	127.9	127.9
85°	90.9	87.5	87.5	80.8	80.8	80.8	77.4	77.4	77.4	77.4	77.4
87.5°	43.8	43.8	40.4	40.4	37.0	33.7	33.7	30.3	30.3	33.7	33.7
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: 8SNLED-LD5-200HL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3
2.5°	7601.1	7644.9	7607.9	7624.7	7628.1	7685.3	7681.9	7695.4	7671.8	7644.9	7607.9
5°	7988.3	7968.1	7941.1	8005.1	7971.4	8011.8	8025.3	8052.2	8052.2	8048.9	8018.6
7.5°	7493.4	7449.7	7483.3	7506.9	7517.0	7490.0	7543.9	7604.5	7655.0	7685.3	7688.7
10°	7106.3	7119.8	7116.4	7126.5	7150.0	7146.7	7180.3	7214.0	7227.5	7247.7	7254.4
12.5°	6924.5	6921.1	6927.9	6951.4	6964.9	6961.5	6995.2	7015.4	7022.1	7025.5	7022.1
15°	6779.8	6756.2	6773.0	6776.4	6786.5	6786.5	6826.9	6857.2	6870.6	6877.4	6870.6
17.5°	6507.1	6449.9	6503.7	6503.7	6540.7	6534.0	6598.0	6648.5	6675.4	6695.6	6695.6
20°	6237.8	6210.8	6231.0	6224.3	6251.2	6247.9	6288.3	6321.9	6345.5	6362.3	6382.5
22.5°	6130.1	6136.8	6106.5	6109.9	6109.9	6106.5	6126.7	6143.5	6150.3	6160.4	6153.6
25°	6059.4	6066.1	6056.0	6039.2	6032.4	6039.2	6049.3	6069.5	6072.8	6066.1	6042.5
27.5°	5988.7	5968.5	5985.3	5955.0	5948.3	5961.7	5975.2	5978.6	5981.9	5981.9	5961.7
30°	5880.9	5864.1	5880.9	5867.5	5854.0	5867.5	5877.6	5877.6	5884.3	5887.7	5864.1
32.5°	4110.3	4143.9	4689.3	5019.2	5483.7	5719.4	5763.1	5763.1	5769.9	5769.9	5749.7
35°	1400.4	1403.8	1518.2	1646.1	1918.8	2255.4	2696.4	2925.3	3699.6	4625.3	5520.8
37.5°	1383.6	1380.2	1376.8	1373.5	1370.1	1366.7	1360.0	1356.6	1376.8	1632.7	2215.0
40°	1390.3	1386.9	1380.2	1376.8	1373.5	1366.7	1363.4	1356.6	1349.9	1343.2	1336.4
42.5°	1390.3	1386.9	1383.6	1380.2	1376.8	1373.5	1366.7	1360.0	1353.3	1343.2	1333.1
45°	1343.2	1343.2	1346.5	1346.5	1349.9	1349.9	1349.9	1346.5	1346.5	1343.2	1329.7
47.5°	1255.6	1255.6	1265.7	1265.7	1272.5	1279.2	1279.2	1285.9	1296.0	1302.8	1306.1
50°	1154.6	1154.6	1164.7	1168.1	1174.8	1184.9	1195.0	1198.4	1208.5	1222.0	1235.4
52.5°	1053.7	1053.7	1063.8	1063.8	1070.5	1080.6	1090.7	1094.1	1107.5	1121.0	1137.8
55°	959.4	959.4	966.1	969.5	972.9	979.6	989.7	989.7	1003.2	1013.3	1030.1
57.5°	875.2	882.0	882.0	882.0	885.3	892.1	898.8	898.8	908.9	919.0	932.5
60°	794.4	801.2	801.2	801.2	804.5	807.9	814.6	814.6	821.4	828.1	841.6
62.5°	720.4	727.1	727.1	730.5	730.5	733.9	740.6	737.2	744.0	747.3	757.4
65°	626.1	632.9	636.2	639.6	643.0	649.7	659.8	656.4	666.5	673.3	683.4
67.5°	535.2	542.0	542.0	545.3	548.7	555.4	562.2	562.2	572.3	579.0	592.5
70°	451.1	457.8	457.8	461.2	464.6	471.3	478.0	474.7	484.7	491.5	501.6
72.5°	373.7	380.4	380.4	383.8	383.8	390.5	397.2	404.0	404.0	410.7	417.4
75°	303.0	306.3	309.7	309.7	313.1	316.4	323.2	329.9	333.3	336.6	343.4
77.5°	239.0	242.4	245.7	245.7	249.1	252.5	255.8	269.3	276.0	279.4	279.4
80°	181.8	185.1	185.1	185.1	188.5	191.9	198.6	198.6	212.1	212.1	215.4
82.5°	127.9	131.3	131.3	131.3	134.7	141.4	144.8	148.1	154.9	158.2	158.2
85°	77.4	80.8	80.8	80.8	84.2	87.5	94.3	97.6	101.0	101.0	104.4
87.5°	30.3	33.7	37.0	37.0	40.4	43.8	47.1	50.5	53.9	53.9	57.2
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: 8SNLED-LD5-200HL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3
2.5°	7567.5	7591.0	7567.5	7580.9	7597.8	7567.5	7496.8	7469.8	7459.8	7419.4	7392.4
5°	7988.3	7988.3	7978.2	8005.1	8001.7	7954.6	7880.5	7846.9	7813.2	7769.5	7735.8
7.5°	7688.7	7715.6	7732.4	7836.8	7904.1	7910.8	7958.0	7968.1	7981.5	7968.1	7947.9
10°	7257.8	7247.7	7294.8	7392.4	7449.7	7479.9	7570.8	7614.6	7651.6	7725.7	7803.1
12.5°	7015.4	7028.9	7049.1	7119.8	7173.6	7160.1	7197.2	7227.5	7271.2	7345.3	7456.4
15°	6853.8	6867.3	6887.5	6941.3	6975.0	6958.2	6978.4	6998.6	7028.9	7065.9	7133.2
17.5°	6678.8	6702.3	6725.9	6783.1	6813.4	6810.1	6826.9	6833.6	6843.7	6867.3	6914.4
20°	6406.1	6480.2	6527.3	6604.7	6648.5	6641.7	6672.0	6682.1	6695.6	6719.2	6739.4
22.5°	6157.0	6177.2	6200.7	6284.9	6359.0	6449.9	6470.1	6497.0	6530.6	6554.2	6574.4
25°	6015.6	6002.1	6012.2	6069.5	6109.9	6116.6	6146.9	6234.4	6325.3	6365.7	6412.8
27.5°	5931.4	5918.0	5914.6	5941.5	5948.3	5931.4	5924.7	5951.6	6019.0	6086.3	6227.7
30°	5840.6	5823.7	5810.3	5833.8	5843.9	5820.4	5776.6	5753.0	5793.4	5810.3	5867.5
32.5°	5732.8	5716.0	5709.3	5722.7	5729.5	5709.3	5662.1	5635.2	5628.5	5615.0	5628.5
35°	5611.6	5594.8	5584.7	5588.1	5601.5	5584.7	5544.3	5510.7	5493.8	5456.8	5429.9
37.5°	2891.7	4096.8	5318.8	5446.7	5460.2	5456.8	5416.4	5379.4	5362.5	5318.8	5305.3
40°	1323.0	1477.8	2218.4	2898.4	4181.0	5312.0	5275.0	5238.0	5207.7	5194.2	5143.7
42.5°	1319.6	1323.0	1326.3	1309.5	1622.6	2763.7	4080.0	5093.2	5073.0	5039.4	5002.3
45°	1319.6	1302.8	1316.2	1296.0	1302.8	1299.4	1619.2	2612.3	4648.9	4857.6	4840.8
47.5°	1306.1	1296.0	1309.5	1292.7	1272.5	1282.6	1269.1	1285.9	2006.3	3403.3	4662.3
50°	1245.5	1252.3	1275.8	1272.5	1255.6	1269.1	1245.5	1265.7	1248.9	1370.1	2639.2
52.5°	1154.6	1168.1	1191.7	1211.9	1218.6	1235.4	1228.7	1235.4	1222.0	1225.3	1228.7
55°	1046.9	1063.8	1084.0	1114.2	1127.7	1154.6	1174.8	1184.9	1201.8	1198.4	1171.5
57.5°	945.9	962.8	979.6	1009.9	1040.2	1053.7	1090.7	1110.9	1154.6	1144.5	1137.8
60°	851.7	865.1	882.0	888.7	925.7	949.3	983.0	1003.2	1060.4	1073.9	1094.1
62.5°	767.5	774.3	787.7	797.8	821.4	844.9	861.8	895.4	925.7	969.5	999.8
65°	690.1	696.8	706.9	713.7	717.0	750.7	760.8	797.8	807.9	855.0	882.0
67.5°	602.6	616.0	629.5	636.2	643.0	663.2	669.9	686.7	710.3	730.5	764.2
70°	511.7	521.8	535.2	545.3	558.8	572.3	592.5	602.6	619.4	632.9	659.8
72.5°	427.5	437.6	444.4	454.5	464.6	474.7	491.5	515.0	528.5	552.1	558.8
75°	346.7	356.8	363.6	370.3	380.4	387.1	393.9	417.4	430.9	451.1	471.3
77.5°	286.1	286.1	292.9	313.1	309.7	309.7	316.4	329.9	340.0	353.5	373.7
80°	222.2	225.5	228.9	245.7	249.1	252.5	249.1	259.2	269.3	272.7	286.1
82.5°	164.9	168.3	168.3	178.4	188.5	188.5	188.5	191.9	202.0	205.3	212.1
85°	111.1	114.5	117.8	121.2	127.9	131.3	134.7	134.7	141.4	144.8	148.1
87.5°	60.6	67.3	70.7	74.1	77.4	80.8	84.2	87.5	90.9	94.3	97.6
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: 8SNLED-LD5-200HL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3	7345.3
2.5°	7382.3	7365.5	7355.4	7328.5	7321.7	7278.0	7284.7	7278.0	7278.0	7288.1	7321.7
5°	7698.8	7618.0	7597.8	7540.5	7493.4	7412.6	7362.1	7335.2	7294.8	7278.0	7301.5
7.5°	7914.2	7853.6	7803.1	7752.6	7685.3	7591.0	7520.3	7439.6	7372.2	7308.3	7291.4
10°	7877.2	7944.5	7944.5	7914.2	7850.2	7756.0	7671.8	7570.8	7453.0	7352.0	7291.4
12.5°	7564.1	7681.9	7776.2	7846.9	7910.8	7846.9	7762.7	7681.9	7550.6	7402.5	7291.4
15°	7220.7	7341.9	7459.8	7607.9	7762.7	7826.7	7823.3	7729.1	7611.2	7456.4	7301.5
17.5°	6978.4	7062.5	7126.5	7288.1	7476.6	7641.5	7752.6	7759.4	7644.9	7506.9	7304.9
20°	6796.6	6857.2	6911.0	7001.9	7166.9	7368.9	7574.2	7688.7	7668.5	7517.0	7315.0
22.5°	6631.6	6675.4	6719.2	6786.5	6917.8	7049.1	7288.1	7523.7	7624.7	7500.1	7304.9
25°	6466.7	6513.8	6547.5	6594.6	6699.0	6806.7	6975.0	7267.9	7493.4	7486.7	7284.7
27.5°	6271.4	6335.4	6375.8	6439.8	6510.5	6591.2	6705.7	6981.7	7304.9	7419.4	7230.8
30°	6035.8	6130.1	6190.7	6261.3	6321.9	6392.6	6483.5	6651.8	7052.4	7288.1	7173.6
32.5°	5695.8	5864.1	5998.8	6066.1	6133.4	6194.0	6274.8	6416.2	6742.7	7109.7	7109.7
35°	5453.4	5530.9	5652.0	5847.3	5931.4	5992.0	6066.1	6177.2	6385.9	6897.6	7005.3
37.5°	5264.9	5295.2	5355.8	5547.7	5705.9	5803.5	5877.6	5948.3	6153.6	6608.1	6870.6
40°	5123.5	5113.4	5106.7	5197.6	5423.1	5578.0	5662.1	5732.8	5891.0	6261.3	6692.2
42.5°	4958.6	4948.5	4914.8	4938.4	5049.5	5308.7	5436.6	5514.0	5645.3	5897.8	6497.0
45°	4786.9	4770.1	4756.6	4733.0	4773.4	4918.2	5180.8	5295.2	5369.3	5594.8	6251.2
47.5°	4611.8	4588.3	4571.5	4551.3	4527.7	4595.0	4844.1	5049.5	5177.4	5318.8	5955.0
50°	4362.7	4393.0	4372.8	4349.3	4329.1	4315.6	4420.0	4756.6	4914.8	5029.3	5594.8
52.5°	2056.8	3999.2	4167.5	4143.9	4117.0	4093.4	4117.0	4372.8	4659.0	4749.9	5160.6
55°	1171.5	1780.8	3706.3	3918.4	3894.8	3861.2	3841.0	3928.5	4356.0	4477.2	4763.3
57.5°	1127.7	1131.1	1636.0	3531.3	3662.5	3632.3	3608.7	3628.9	3992.4	4197.8	4416.6
60°	1090.7	1090.7	1090.7	1562.0	3376.4	3386.5	3356.2	3322.6	3480.8	3884.7	4066.5
62.5°	1009.9	1030.1	1040.2	1040.2	1541.8	3127.3	3097.0	3086.9	3093.6	3507.7	3716.4
65°	905.5	952.7	972.9	986.3	986.3	1619.2	2831.1	2814.2	2790.7	2948.9	3362.9
67.5°	791.1	838.2	882.0	908.9	912.3	942.6	1689.9	2534.8	2501.2	2504.5	2985.9
70°	673.3	713.7	760.8	801.2	838.2	855.0	882.0	2103.9	2215.0	2167.9	2558.4
72.5°	582.4	599.2	632.9	673.3	717.0	757.4	781.0	838.2	1922.2	1871.7	1945.7
75°	484.7	498.2	521.8	548.7	582.4	629.5	669.9	710.3	1020.0	1568.7	1558.6
77.5°	377.0	400.6	427.5	444.4	461.2	494.8	548.7	589.1	629.5	1060.4	1248.9
80°	289.5	306.3	319.8	336.6	356.8	380.4	400.6	447.7	494.8	531.9	956.0
82.5°	215.4	225.5	235.6	242.4	249.1	262.6	299.6	316.4	346.7	380.4	451.1
85°	151.5	158.2	164.9	168.3	171.7	175.0	188.5	191.9	222.2	228.9	272.7
87.5°	97.6	101.0	107.7	111.1	111.1	114.5	117.8	117.8	117.8	111.1	134.7
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: 8SNLED-LD5-200HL-RW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	7345.3	7345.3
2.5°	7348.7	7402.5
5°	7338.6	7409.3
7.5°	7311.6	7379.0
10°	7271.2	7352.0
12.5°	7227.5	7304.9
15°	7190.4	7247.7
17.5°	7150.0	7183.7
20°	7096.2	7123.1
22.5°	7042.3	7028.9
25°	6981.7	6951.4
27.5°	6904.3	6847.1
30°	6833.6	6732.6
32.5°	6766.3	6601.3
35°	6675.4	6466.7
37.5°	6581.1	6328.7
40°	6470.1	6170.5
42.5°	6352.2	6012.2
45°	6204.1	5860.8
47.5°	6072.8	5679.0
50°	5891.0	5483.7
52.5°	5668.9	5301.9
55°	5406.3	5079.8
57.5°	5123.5	4847.5
60°	4820.6	4581.6
62.5°	4453.6	4305.5
65°	4022.7	3989.1
67.5°	3460.6	3639.0
70°	2837.8	3238.4
72.5°	2373.3	2814.2
75°	1945.7	2339.6
77.5°	1541.8	1834.6
80°	962.8	1343.2
82.5°	646.3	882.0
85°	390.5	420.8
87.5°	151.5	154.9
90°	0.0	0.0

(END OF REPORT)