

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-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 (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-L935-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
WHITE REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

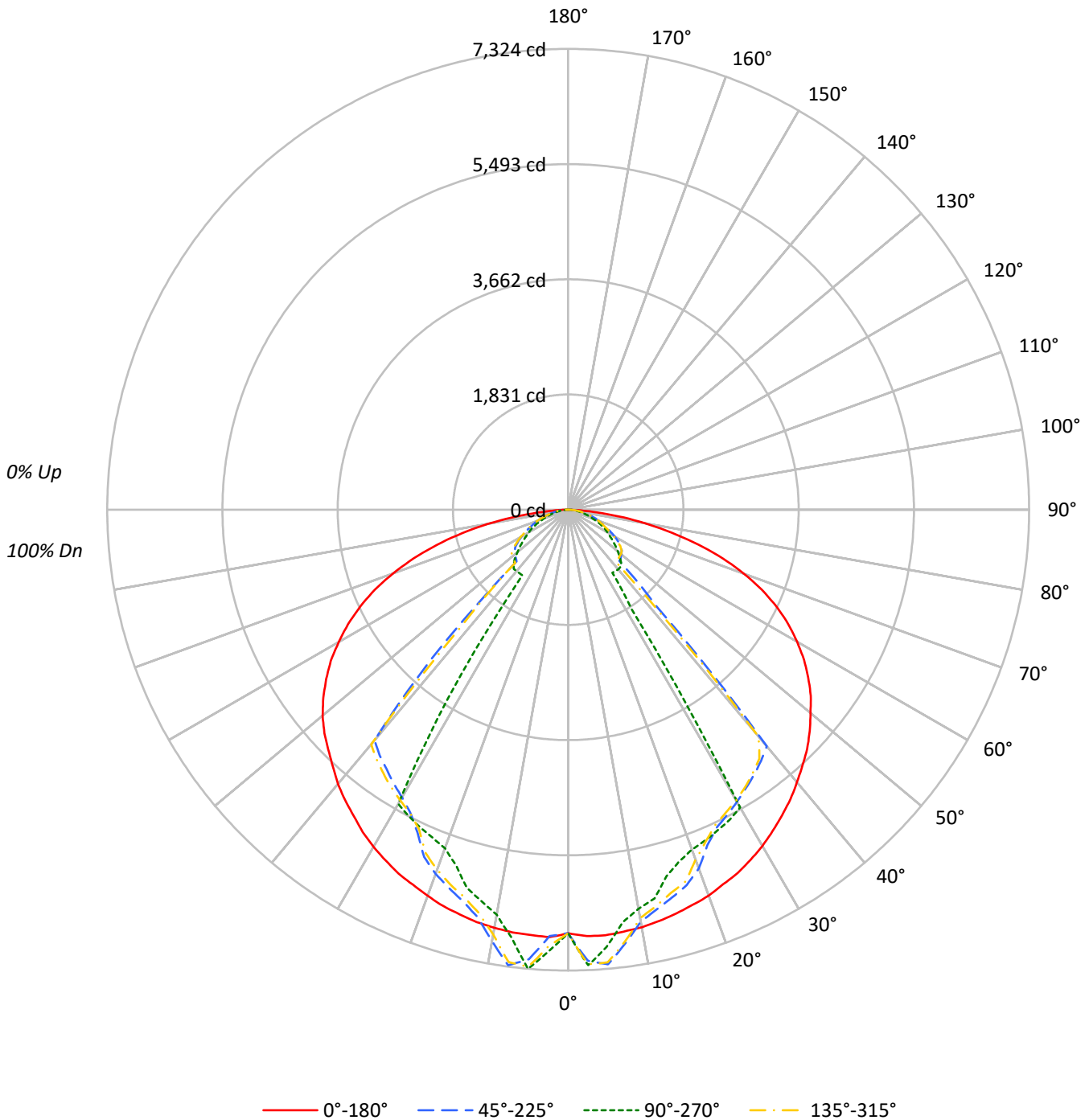
Lumens per Lamp: N/A
Luminaire Lumens: 13480.0 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

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-L935-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°	27199	27199	27199	27199
5°	27503	27404	27491	28761
10°	27568	24776	27606	25156
15°	27668	22924	27732	23650
20°	27910	21742	27910	21661
25°	28196	21326	28237	21127
30°	28530	20950	28601	20702
35°	28916	4772	28976	4977
40°	29441	4962	29617	5123
45°	30219	4934	30323	5114
50°	31012	4462	31431	4582
55°	32078	3961	32334	4018
60°	33036	3520	33109	3566
65°	33819	3072	33733	3023
70°	33617	2476	33513	2386
75°	31628	1906	31855	1825
80°	26310	1353	27366	1239
85°	15167	811	16017	622



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	662.3	4.9
10°-20°	1821.0	13.5
20°-30°	2697.3	20.0
30°-40°	2717.7	20.2
40°-50°	2123.0	15.7
50°-60°	1639.8	12.2
60°-70°	1101.0	8.2
70°-80°	561.6	4.2
80°-90°	156.3	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°	5180.6	38.4
0°-40°	7898.3	58.6
0°-60°	11661.1	86.5
0°-90°	13480.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13480.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	6732	6732	6732	6732	6732	
5°	6790	6978	6787	7324	6790	646
15°	6642	6031	6658	6222	6642	1879
25°	6371	5621	6380	5568	6371	2939
35°	5926	1222	5939	1274	5926	3714
45°	5371	1188	5390	1231	5371	4142
55°	4655	864	4692	876	4655	4158
65°	3656	580	3646	571	3656	3595
75°	2144	293	2160	281	2144	2242
85°	386	93	407	71	386	531
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6
2.5°	6784.0	6808.7	6827.2	6839.5	6845.7	6845.7	6848.8	6851.9	6892.0	6910.5	6922.8
5°	6790.2	6814.9	6851.9	6901.2	6944.4	6981.5	7012.3	7055.5	7098.7	7145.0	7160.4
7.5°	6762.4	6793.3	6867.3	6956.8	7040.1	7098.7	7138.8	7166.6	7188.2	7191.2	7206.7
10°	6737.7	6793.3	6895.1	7012.3	7117.2	7188.2	7188.2	7172.7	7194.3	7111.0	7027.7
12.5°	6694.5	6756.2	6895.1	7049.3	7148.0	7175.8	7163.5	7101.8	6975.3	6873.5	6827.2
15°	6642.1	6725.4	6898.2	7070.9	7154.2	7163.5	7046.2	6888.9	6793.3	6731.6	6654.4
17.5°	6583.5	6694.5	6901.2	7074.0	7104.9	7061.7	6839.5	6740.8	6642.1	6497.1	6392.2
20°	6528.0	6635.9	6876.6	7030.8	7049.3	6855.0	6682.2	6577.3	6410.7	6284.2	6238.0
22.5°	6441.6	6568.1	6855.0	6972.2	6901.2	6676.0	6509.4	6342.8	6191.7	6154.7	6099.1
25°	6370.6	6503.3	6805.6	6901.2	6713.1	6512.5	6318.2	6123.8	6052.9	6000.4	5951.0
27.5°	6275.0	6438.5	6740.8	6771.7	6512.5	6336.7	6052.9	5966.5	5901.7	5843.1	5821.5
30°	6170.1	6370.6	6651.4	6592.7	6345.9	6086.8	5877.0	5796.8	5750.5	5688.8	5664.1
32.5°	6049.8	6268.8	6552.6	6386.0	6167.0	5843.1	5707.3	5645.6	5583.9	5537.7	5383.4
35°	5926.4	6179.3	6435.4	6188.6	5951.0	5658.0	5537.7	5482.1	5423.5	5253.8	5093.4
37.5°	5799.9	6080.6	6293.5	5975.7	5664.1	5466.7	5364.9	5303.2	5170.5	4954.6	4874.4
40°	5654.9	5960.3	6111.5	5756.7	5414.3	5272.3	5176.7	5115.0	4815.8	4720.1	4695.4
42.5°	5509.9	5843.1	5889.3	5543.8	5207.6	5065.6	4985.4	4781.8	4578.2	4528.8	4538.1
45°	5371.1	5716.6	5645.6	5241.5	4991.6	4874.4	4738.6	4457.9	4349.9	4374.6	4380.8
47.5°	5204.5	5565.4	5389.6	4939.2	4769.5	4652.2	4349.9	4180.2	4164.8	4198.7	4217.3
50°	5025.5	5395.7	5118.1	4664.6	4528.8	4390.0	4047.6	3961.2	3979.7	4013.6	4035.2
52.5°	4858.9	5204.5	4837.3	4408.5	4291.3	3973.5	3742.2	3757.6	3788.4	3828.5	3840.9
55°	4655.3	4973.1	4538.1	4149.4	4038.3	3621.8	3516.9	3554.0	3584.8	3618.8	3643.4
57.5°	4442.5	4707.8	4183.3	3859.4	3680.5	3310.3	3319.5	3344.2	3365.8	3405.9	1406.8
60°	4198.7	4405.4	3794.6	3591.0	3236.2	3063.4	3072.7	3115.9	3137.5	1752.3	968.7
62.5°	3945.8	4053.7	3442.9	3285.6	2829.0	2816.6	2859.8	2878.3	1959.0	925.5	907.0
65°	3655.8	3634.2	3097.4	2847.5	2551.3	2563.7	2609.9	2517.4	866.9	866.9	860.7
67.5°	3334.9	3205.4	2761.1	2357.0	2282.9	2310.7	2360.1	823.7	802.1	808.3	786.7
70°	2967.8	2785.8	2412.5	1996.0	2020.7	2048.5	795.9	746.6	737.3	721.9	678.7
72.5°	2579.1	2329.2	1974.4	1733.8	1749.2	1098.3	697.2	672.5	641.7	610.8	564.6
75°	2144.1	1820.2	1450.0	1450.0	1471.6	626.3	607.8	567.6	533.7	493.6	465.8
77.5°	1681.3	1400.6	1126.0	1169.2	570.7	524.5	490.5	447.3	419.6	394.9	379.5
80°	1230.9	978.0	848.4	758.9	444.2	398.0	364.0	339.4	327.0	311.6	293.1
82.5°	808.3	589.2	589.2	357.9	311.6	274.6	265.3	246.8	234.5	225.2	216.0
85°	385.6	342.4	259.1	219.0	194.4	175.8	169.7	160.4	160.4	157.3	154.3
87.5°	141.9	154.3	114.1	111.1	104.9	101.8	104.9	104.9	108.0	104.9	101.8
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: 8SNLED-LD5-200HL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6
2.5°	6953.7	6978.4	6996.9	7027.7	7067.8	7101.8	7132.6	7175.8	7243.7	7262.2	7277.6
5°	7160.4	7169.6	7191.2	7215.9	7222.1	7237.5	7234.4	7252.9	7262.2	7283.8	7237.5
7.5°	7172.7	7123.4	7064.7	7012.3	6975.3	6941.3	6919.8	6953.7	6972.2	6987.6	6941.3
10°	6913.6	6855.0	6821.0	6790.2	6753.2	6700.7	6629.8	6645.2	6639.0	6639.0	6623.6
12.5°	6750.1	6666.8	6580.4	6503.3	6469.3	6466.3	6469.3	6503.3	6503.3	6500.2	6481.7
15°	6494.0	6413.8	6370.6	6352.1	6352.1	6342.8	6342.8	6379.9	6370.6	6370.6	6361.4
17.5°	6324.3	6268.8	6238.0	6216.4	6207.1	6222.5	6241.0	6256.5	6259.6	6247.2	6197.9
20°	6185.5	6133.1	6096.0	6102.2	6099.1	6108.4	6117.6	6065.2	6000.4	5914.0	5873.9
22.5°	6040.5	6000.4	5972.6	5972.6	5935.6	5877.0	5790.6	5772.1	5762.9	5722.8	5688.8
25°	5901.7	5855.4	5815.3	5691.9	5614.8	5624.0	5608.6	5577.8	5574.7	5571.6	5583.9
27.5°	5762.9	5642.5	5488.3	5469.8	5438.9	5435.8	5454.4	5469.8	5469.8	5482.1	5497.5
30°	5476.0	5337.1	5309.4	5275.4	5287.8	5331.0	5340.2	5361.8	5368.0	5389.6	5401.9
32.5°	5213.7	5152.0	5127.3	5142.8	5182.9	5219.9	5241.5	5250.7	5266.2	5284.7	5300.1
35°	5000.9	4982.3	5003.9	5037.9	5078.0	5108.8	5127.3	5145.9	5161.3	5176.7	5189.0
37.5°	4843.5	4855.9	4886.7	4929.9	4970.0	4994.7	5010.1	5031.7	5053.3	5071.8	4997.8
40°	4695.4	4726.3	4760.2	4806.5	4840.4	4865.1	4880.5	4908.3	4723.2	2137.9	1172.3
42.5°	4565.9	4599.8	4624.5	4661.5	4698.5	4717.0	4581.3	2045.4	1156.9	1150.7	1166.1
45°	4408.5	4436.3	4476.4	4504.2	4538.1	2980.2	1138.4	1150.7	1132.2	1144.6	1150.7
47.5°	4248.1	4291.3	4312.9	4115.4	1224.8	1132.2	1119.9	1132.2	1119.9	1135.3	1126.0
50°	4066.1	4118.5	2930.8	1107.5	1098.3	1092.1	1104.4	1098.3	1107.5	1119.9	1095.2
52.5°	3881.0	2403.2	1073.6	1067.4	1073.6	1067.4	1089.0	1073.6	1076.7	1064.3	1033.5
55°	1314.2	1039.7	1030.4	1027.3	1045.8	1045.8	1045.8	1021.1	1005.7	974.9	953.3
57.5°	1005.7	1005.7	1002.6	1005.7	999.6	993.4	965.6	944.0	922.4	879.2	866.9
60°	953.3	953.3	953.3	953.3	925.5	913.2	870.0	851.5	814.5	792.9	780.5
62.5°	910.1	903.9	876.2	866.9	836.0	802.1	777.4	758.9	721.9	709.6	700.3
65°	848.4	826.8	792.9	755.8	740.4	703.4	691.0	663.3	644.8	635.5	629.3
67.5°	746.6	715.7	688.0	663.3	635.5	623.2	607.8	586.2	573.8	567.6	561.5
70°	638.6	617.0	589.2	573.8	555.3	546.1	524.5	518.3	509.0	499.8	490.5
72.5°	533.7	521.4	509.0	487.4	481.3	475.1	453.5	441.2	428.8	416.5	410.3
75°	447.3	438.1	431.9	413.4	404.1	385.6	370.2	361.0	351.7	342.4	336.3
77.5°	367.1	361.0	342.4	330.1	323.9	308.5	302.3	305.4	299.2	286.9	280.7
80°	286.9	280.7	265.3	265.3	259.1	253.0	246.8	240.6	234.5	225.2	219.0
82.5°	219.0	212.9	206.7	200.5	194.4	191.3	188.2	182.0	175.8	169.7	166.6
85°	154.3	151.2	148.1	145.0	141.9	138.8	135.7	129.6	123.4	120.3	117.2
87.5°	104.9	101.8	98.7	95.6	92.6	89.5	86.4	83.3	77.1	74.0	71.0
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-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6
2.5°	7277.6	7293.0	7277.6	7243.7	7222.1	7212.8	7231.3	7231.3	7243.7	7259.1	7262.2
5°	7163.5	7126.5	7083.3	7040.1	7018.5	7006.1	6972.2	6978.4	6987.6	6993.8	7000.0
7.5°	6879.6	6830.3	6771.7	6716.1	6694.5	6676.0	6635.9	6635.9	6635.9	6639.0	6657.5
10°	6589.7	6568.1	6543.4	6506.4	6478.6	6469.3	6435.4	6444.7	6438.5	6447.7	6469.3
12.5°	6453.9	6429.2	6407.6	6370.6	6339.8	6327.4	6312.0	6321.3	6318.2	6333.6	6352.1
15°	6330.5	6318.2	6293.5	6265.7	6238.0	6213.3	6157.7	6139.2	6126.9	6111.5	6133.1
17.5°	6126.9	6040.5	5981.9	5938.7	5907.9	5886.3	5870.8	5870.8	5880.1	5889.3	5907.9
20°	5849.2	5824.6	5796.8	5750.5	5719.7	5707.3	5698.1	5698.1	5713.5	5725.8	5759.8
22.5°	5658.0	5654.9	5645.6	5624.0	5608.6	5608.6	5611.7	5617.9	5639.5	5658.0	5691.9
25°	5568.5	5580.8	5574.7	5562.3	5553.1	5556.2	5550.0	5556.2	5577.8	5596.3	5624.0
27.5°	5497.5	5516.1	5509.9	5491.4	5476.0	5482.1	5491.4	5485.2	5503.7	5525.3	5546.9
30°	5401.9	5405.0	5417.3	5395.7	5389.6	5398.8	5401.9	5408.1	5426.6	5442.0	5460.5
32.5°	5293.9	5318.6	5315.5	5293.9	5293.9	5303.2	5306.3	5099.6	4713.9	4059.9	3881.0
35°	5189.0	5216.8	5170.5	4359.2	3017.2	1610.4	1243.3	1200.1	1209.3	1215.5	1221.7
37.5°	3837.8	1820.2	1160.0	1169.2	1178.5	1187.7	1197.0	1206.3	1215.5	1224.8	1227.8
40°	1153.8	1150.7	1160.0	1172.3	1181.6	1187.7	1200.1	1209.3	1218.6	1227.8	1230.9
42.5°	1141.5	1147.6	1156.9	1169.2	1181.6	1193.9	1203.2	1215.5	1221.7	1227.8	1230.9
45°	1135.3	1147.6	1160.0	1169.2	1178.5	1184.7	1190.8	1193.9	1190.8	1190.8	1197.0
47.5°	1126.0	1138.4	1141.5	1138.4	1141.5	1138.4	1138.4	1138.4	1129.1	1126.0	1126.0
50°	1092.1	1092.1	1085.9	1073.6	1070.5	1067.4	1061.3	1058.2	1045.8	1042.7	1042.7
52.5°	1021.1	1018.1	1008.8	993.4	987.2	981.0	978.0	974.9	962.5	956.4	959.4
55°	937.9	931.7	922.4	903.9	900.8	894.7	891.6	888.5	876.2	882.3	873.1
57.5°	860.7	848.4	836.0	833.0	820.6	817.5	814.5	811.4	802.1	805.2	799.0
60°	768.2	765.1	758.9	746.6	746.6	743.5	743.5	737.3	731.2	728.1	728.1
62.5°	700.3	691.0	684.9	684.9	675.6	675.6	675.6	669.5	663.3	666.4	663.3
65°	626.3	623.2	620.1	613.9	613.9	610.8	610.8	604.7	595.4	598.5	592.3
67.5°	564.6	558.4	552.2	549.1	536.8	530.6	527.5	524.5	512.1	515.2	509.0
70°	487.4	478.2	472.0	465.8	456.6	450.4	450.4	444.2	435.0	438.1	431.9
72.5°	407.2	401.1	394.9	391.8	382.5	379.5	376.4	373.3	364.0	367.1	364.0
75°	339.4	339.4	336.3	333.2	323.9	314.7	308.5	305.4	299.2	302.3	296.2
77.5°	280.7	274.6	268.4	268.4	259.1	253.0	246.8	246.8	246.8	243.7	240.6
80°	219.0	212.9	212.9	209.8	203.6	197.4	194.4	194.4	191.3	191.3	188.2
82.5°	166.6	160.4	157.3	157.3	151.2	148.1	145.0	141.9	141.9	141.9	138.8
85°	117.2	111.1	108.0	108.0	101.8	98.7	98.7	95.6	95.6	92.6	92.6
87.5°	71.0	67.9	64.8	64.8	58.6	55.5	55.5	55.5	52.4	52.4	49.4
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-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6
2.5°	7262.2	7262.2	7240.6	7246.8	7237.5	7249.9	7234.4	7234.4	7252.9	7252.9	7265.3
5°	7003.0	6987.6	6984.5	6978.4	6947.5	6959.9	6944.4	6929.0	6950.6	6950.6	6978.4
7.5°	6648.3	6620.5	6632.8	6614.3	6595.8	6568.1	6577.3	6565.0	6580.4	6602.0	6629.8
10°	6466.3	6441.6	6457.0	6438.5	6447.7	6407.6	6410.7	6413.8	6429.2	6435.4	6460.1
12.5°	6349.0	6342.8	6336.7	6330.5	6336.7	6315.1	6302.7	6305.8	6312.0	6315.1	6333.6
15°	6102.2	6062.1	6074.5	6031.3	6034.3	6037.4	6012.7	6037.4	6034.3	6074.5	6111.5
17.5°	5901.7	5901.7	5880.1	5861.6	5849.2	5846.2	5827.6	5840.0	5827.6	5852.3	5861.6
20°	5762.9	5759.8	5756.7	5747.4	5716.6	5719.7	5728.9	5701.2	5698.1	5695.0	5713.5
22.5°	5698.1	5701.2	5688.8	5688.8	5661.1	5667.2	5670.3	5639.5	5642.5	5633.3	5642.5
25°	5630.2	5636.4	5620.9	5620.9	5614.8	5611.7	5596.3	5602.4	5583.9	5568.5	5583.9
27.5°	5550.0	5562.3	5550.0	5556.2	5543.8	5537.7	5528.4	5522.2	5503.7	5500.6	5509.9
30°	5476.0	5482.1	5479.0	5463.6	5460.5	5442.0	5451.3	5432.8	5414.3	5417.3	5423.5
32.5°	2807.4	2680.9	2067.0	1866.5	1847.9	1915.8	2270.6	2764.2	3581.7	4374.6	4945.3
35°	1224.8	1224.8	1224.8	1221.7	1221.7	1218.6	1215.5	1212.4	1209.3	1206.3	1203.2
37.5°	1230.9	1230.9	1230.9	1230.9	1227.8	1224.8	1224.8	1218.6	1215.5	1212.4	1209.3
40°	1234.0	1237.1	1237.1	1237.1	1234.0	1234.0	1230.9	1224.8	1221.7	1215.5	1209.3
42.5°	1230.9	1234.0	1234.0	1230.9	1230.9	1227.8	1227.8	1224.8	1221.7	1218.6	1215.5
45°	1190.8	1193.9	1187.7	1187.7	1184.7	1184.7	1184.7	1184.7	1184.7	1187.7	1187.7
47.5°	1119.9	1119.9	1116.8	1113.7	1113.7	1110.6	1113.7	1110.6	1116.8	1119.9	1126.0
50°	1036.6	1036.6	1030.4	1027.3	1027.3	1027.3	1027.3	1030.4	1033.5	1039.7	1045.8
52.5°	950.2	950.2	947.1	944.0	940.9	940.9	950.2	947.1	950.2	953.3	962.5
55°	866.9	870.0	863.8	863.8	860.7	860.7	860.7	863.8	866.9	870.0	879.2
57.5°	795.9	795.9	789.8	789.8	789.8	786.7	795.9	789.8	792.9	795.9	802.1
60°	725.0	721.9	721.9	718.8	718.8	718.8	725.0	721.9	721.9	725.0	731.2
62.5°	660.2	660.2	657.1	657.1	654.0	654.0	660.2	657.1	657.1	660.2	663.3
65°	586.2	586.2	583.1	580.0	589.2	580.0	589.2	583.1	589.2	592.3	598.5
67.5°	502.9	502.9	502.9	499.8	499.8	505.9	509.0	502.9	505.9	512.1	515.2
70°	428.8	428.8	425.7	425.7	425.7	431.9	435.0	428.8	431.9	435.0	441.2
72.5°	364.0	357.9	357.9	354.8	361.0	361.0	364.0	361.0	364.0	364.0	370.2
75°	299.2	293.1	293.1	293.1	299.2	296.2	299.2	296.2	299.2	299.2	302.3
77.5°	240.6	237.5	234.5	234.5	240.6	240.6	240.6	237.5	240.6	243.7	246.8
80°	188.2	185.1	182.0	182.0	188.2	188.2	188.2	191.3	188.2	191.3	194.4
82.5°	138.8	135.7	132.7	138.8	138.8	138.8	138.8	141.9	138.8	141.9	145.0
85°	92.6	89.5	86.4	92.6	92.6	92.6	92.6	95.6	92.6	95.6	98.7
87.5°	49.4	46.3	46.3	49.4	49.4	49.4	52.4	52.4	52.4	55.5	55.5
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-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6
2.5°	7283.8	7293.0	7290.0	7271.4	7252.9	7231.3	7215.9	7219.0	7249.9	7259.1	7231.3
5°	6978.4	7037.0	7037.0	7077.1	7055.5	7037.0	7049.3	7117.2	7151.1	7203.6	7222.1
7.5°	6663.7	6691.5	6688.4	6728.5	6722.3	6722.3	6731.6	6821.0	6864.2	6907.4	6919.8
10°	6487.8	6515.6	6512.5	6515.6	6506.4	6484.8	6484.8	6524.9	6561.9	6583.5	6589.7
12.5°	6361.4	6376.8	6373.7	6373.7	6367.5	6349.0	6345.9	6379.9	6420.0	6447.7	6450.8
15°	6173.2	6216.4	6225.6	6265.7	6256.5	6231.8	6238.0	6265.7	6290.4	6315.1	6305.8
17.5°	5892.4	5914.0	5917.1	5932.5	5926.4	5926.4	5963.4	6065.2	6133.1	6191.7	6197.9
20°	5732.0	5747.4	5741.3	5775.2	5759.8	5756.7	5765.9	5809.1	5840.0	5867.8	5917.1
22.5°	5654.9	5667.2	5658.0	5661.1	5633.3	5608.6	5602.4	5636.4	5670.3	5707.3	5707.3
25°	5590.1	5599.4	5596.3	5590.1	5568.5	5534.6	5528.4	5534.6	5546.9	5550.0	5528.4
27.5°	5513.0	5519.1	5519.1	5522.2	5494.5	5463.6	5457.4	5451.3	5463.6	5460.5	5426.6
30°	5432.8	5423.5	5426.6	5429.7	5405.0	5377.2	5364.9	5361.8	5374.1	5371.1	5337.1
32.5°	5241.5	5312.4	5318.6	5324.8	5303.2	5278.5	5266.2	5256.9	5263.1	5260.0	5229.1
35°	1200.1	1221.7	1496.2	3387.4	4599.8	5093.4	5145.9	5133.5	5136.6	5136.6	5111.9
37.5°	1203.2	1200.1	1197.0	1187.7	1178.5	1172.3	2026.9	4322.1	5007.0	5010.1	4988.5
40°	1203.2	1200.1	1197.0	1190.8	1178.5	1169.2	1153.8	1141.5	1169.2	2572.9	4707.8
42.5°	1209.3	1203.2	1197.0	1190.8	1178.5	1166.1	1153.8	1138.4	1147.6	1141.5	1126.0
45°	1190.8	1187.7	1187.7	1184.7	1178.5	1166.1	1150.7	1132.2	1123.0	1132.2	1116.8
47.5°	1132.2	1135.3	1144.6	1147.6	1147.6	1150.7	1141.5	1129.1	1113.7	1123.0	1104.4
50°	1052.0	1058.2	1061.3	1076.7	1082.9	1095.2	1098.3	1098.3	1095.2	1107.5	1095.2
52.5°	965.6	971.8	987.2	993.4	999.6	1018.1	1024.2	1033.5	1039.7	1058.2	1070.5
55°	882.3	885.4	891.6	903.9	913.2	928.6	937.9	947.1	962.5	971.8	1008.8
57.5°	805.2	808.3	820.6	823.7	829.9	842.2	851.5	863.8	876.2	882.3	925.5
60°	731.2	734.2	743.5	746.6	749.7	762.0	771.3	780.5	789.8	795.9	826.8
62.5°	666.4	666.4	675.6	675.6	678.7	688.0	694.1	700.3	709.6	712.6	728.1
65°	601.6	604.7	610.8	610.8	613.9	620.1	623.2	626.3	635.5	635.5	647.9
67.5°	521.4	524.5	533.7	539.9	543.0	555.3	558.4	561.5	567.6	570.7	576.9
70°	444.2	447.3	456.6	459.7	462.8	472.0	478.2	487.4	496.7	505.9	512.1
72.5°	373.3	376.4	385.6	385.6	394.9	398.0	404.1	407.2	416.5	422.7	431.9
75°	305.4	308.5	317.8	317.8	327.0	330.1	333.2	336.3	342.4	348.6	354.8
77.5°	249.9	249.9	262.2	268.4	274.6	274.6	277.7	277.7	277.7	280.7	286.9
80°	197.4	197.4	206.7	212.9	219.0	219.0	222.1	225.2	228.3	228.3	231.4
82.5°	148.1	148.1	157.3	160.4	166.6	166.6	166.6	169.7	172.8	169.7	175.8
85°	101.8	101.8	108.0	111.1	117.2	117.2	117.2	120.3	123.4	120.3	123.4
87.5°	58.6	61.7	64.8	67.9	71.0	74.0	74.0	74.0	77.1	77.1	80.2
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-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6
2.5°	7200.5	7163.5	7160.4	7117.2	7104.9	7107.9	7074.0	7061.7	7006.1	6993.8	6935.2
5°	7228.3	7246.8	7237.5	7234.4	7243.7	7237.5	7212.8	7200.5	7191.2	7166.6	7117.2
7.5°	6922.8	6935.2	6944.4	6984.5	7018.5	7077.1	7138.8	7178.9	7209.7	7215.9	7175.8
10°	6611.2	6669.9	6710.0	6771.7	6821.0	6855.0	6892.0	6925.9	7015.4	7104.9	7157.3
12.5°	6450.8	6466.3	6463.2	6497.1	6531.0	6620.5	6706.9	6756.2	6824.1	6864.2	6959.9
15°	6315.1	6318.2	6327.4	6352.1	6370.6	6401.5	6441.6	6515.6	6651.4	6713.1	6765.5
17.5°	6191.7	6191.7	6197.9	6219.4	6244.1	6271.9	6296.6	6327.4	6395.3	6497.1	6626.7
20°	5994.2	6080.6	6089.9	6086.8	6099.1	6151.6	6157.7	6213.3	6247.2	6287.3	6413.8
22.5°	5701.2	5753.6	5827.6	5941.8	5985.0	6009.7	6028.2	6052.9	6105.3	6151.6	6204.0
25°	5540.7	5574.7	5596.3	5630.2	5719.7	5864.7	5892.4	5920.2	5954.1	5988.1	6052.9
27.5°	5398.8	5395.7	5411.2	5442.0	5466.7	5543.8	5679.6	5787.5	5793.7	5843.1	5898.6
30°	5297.0	5278.5	5256.9	5250.7	5284.7	5324.8	5364.9	5534.6	5651.8	5676.5	5735.1
32.5°	5201.4	5170.5	5139.7	5115.0	5093.4	5127.3	5152.0	5226.1	5377.2	5519.1	5550.0
35°	5084.2	5053.3	5016.3	4988.5	4954.6	4951.5	4948.4	5019.4	5068.7	5238.4	5386.5
37.5°	4963.8	4929.9	4899.0	4868.2	4834.3	4809.6	4794.2	4812.7	4858.9	4933.0	5179.8
40°	4837.3	4797.2	4766.4	4741.7	4695.4	4676.9	4646.1	4633.7	4636.8	4701.6	4831.2
42.5°	2890.7	4609.1	4624.5	4596.7	4556.6	4531.9	4498.0	4482.6	4451.7	4482.6	4556.6
45°	1113.7	1126.0	3372.0	4454.8	4405.4	4374.6	4343.7	4328.3	4294.4	4269.7	4337.6
47.5°	1092.1	1104.4	1079.8	1530.2	4204.9	4214.2	4177.1	4161.7	4127.8	4109.3	4090.8
50°	1076.7	1085.9	1067.4	1073.6	1052.0	3853.2	4007.5	3989.0	3951.9	3930.3	3893.3
52.5°	1061.3	1061.3	1048.9	1033.5	1027.3	1030.4	3242.4	3813.1	3769.9	3748.3	3699.0
55°	1011.9	1018.1	1030.4	1005.7	999.6	996.5	987.2	3088.1	3569.4	3544.7	3501.5
57.5°	937.9	950.2	984.1	978.0	978.0	953.3	947.1	947.1	2866.0	3338.0	3294.8
60°	851.5	863.8	900.8	913.2	922.4	916.3	910.1	907.0	894.7	3020.3	3075.8
62.5°	762.0	774.3	786.7	826.8	839.1	854.6	873.1	863.8	851.5	851.5	2844.4
65°	666.4	684.9	691.0	728.1	743.5	771.3	786.7	808.3	802.1	799.0	814.5
67.5°	583.1	604.7	607.8	623.2	650.9	663.3	681.8	721.9	740.4	746.6	752.8
70°	512.1	524.5	533.7	539.9	558.4	561.5	595.4	623.2	650.9	681.8	691.0
72.5°	441.2	450.4	468.9	462.8	468.9	481.3	499.8	518.3	546.1	589.2	617.0
75°	361.0	367.1	379.5	385.6	398.0	407.2	419.6	435.0	459.7	481.3	518.3
77.5°	290.0	293.1	302.3	305.4	317.8	327.0	348.6	357.9	373.3	388.7	410.3
80°	234.5	234.5	237.5	237.5	246.8	256.1	271.5	280.7	299.2	311.6	311.6
82.5°	178.9	178.9	188.2	188.2	194.4	194.4	203.6	203.6	212.9	219.0	225.2
85°	126.5	129.6	135.7	132.7	138.8	135.7	141.9	148.1	151.2	148.1	145.0
87.5°	83.3	83.3	89.5	86.4	89.5	89.5	95.6	95.6	98.7	98.7	95.6
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-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6
2.5°	6913.6	6867.3	6839.5	6805.6	6796.4	6787.1	6799.4	6799.4	6780.9	6765.5	6737.7
5°	7074.0	7024.6	6972.2	6916.7	6864.2	6808.7	6787.1	6784.0	6750.1	6731.6	6722.3
7.5°	7157.3	7132.6	7074.0	6996.9	6916.7	6817.9	6774.8	6750.1	6716.1	6710.0	6710.0
10°	7166.6	7138.8	7107.9	7052.4	6959.9	6830.3	6747.0	6697.6	6666.8	6688.4	6728.5
12.5°	7077.1	7129.5	7101.8	7064.7	6990.7	6833.4	6713.1	6639.0	6629.8	6685.3	6790.2
15°	6848.8	7003.0	7080.2	7043.2	6984.5	6827.2	6657.5	6571.1	6571.1	6685.3	6821.0
17.5°	6676.0	6796.4	6984.5	7015.4	6947.5	6814.9	6605.1	6503.3	6531.0	6697.6	6842.6
20°	6534.1	6608.2	6790.2	6962.9	6898.2	6787.1	6528.0	6423.1	6478.6	6679.1	6873.5
22.5°	6312.0	6460.1	6571.1	6827.2	6848.8	6734.7	6450.8	6324.3	6435.4	6679.1	6858.1
25°	6096.0	6275.0	6392.2	6642.1	6774.8	6669.9	6379.9	6219.4	6389.1	6669.9	6845.7
27.5°	5944.9	6028.2	6241.0	6420.0	6663.7	6583.5	6284.2	6105.3	6330.5	6620.5	6774.8
30°	5784.5	5840.0	6049.8	6219.4	6515.6	6484.8	6185.5	5978.8	6256.5	6574.2	6589.7
32.5°	5608.6	5670.3	5778.3	6025.1	6308.9	6392.2	6074.5	5852.3	6176.3	6503.3	6373.7
35°	5429.7	5476.0	5562.3	5827.6	6068.3	6253.4	5938.7	5707.3	6120.7	6395.3	6167.0
37.5°	5250.7	5300.1	5374.1	5596.3	5815.3	6123.8	5821.5	5562.3	6018.9	6204.0	5951.0
40°	5081.1	5108.8	5186.0	5324.8	5605.5	5991.2	5688.8	5411.2	5914.0	5960.3	5658.0
42.5°	4769.5	4908.3	4979.3	5090.3	5368.0	5809.1	5534.6	5250.7	5796.8	5716.6	5364.9
45°	4433.2	4735.5	4766.4	4877.5	5158.2	5614.8	5389.6	5093.4	5685.7	5506.8	5087.2
47.5°	4158.6	4377.7	4556.6	4649.2	4908.3	5386.5	5253.8	4960.8	5519.1	5241.5	4815.8
50°	3914.9	4032.2	4356.1	4424.0	4609.1	5111.9	5093.4	4806.5	5287.8	4908.3	4550.4
52.5°	3677.4	3760.7	4053.7	4198.7	4349.9	4815.8	4902.1	4655.3	5034.8	4575.1	4282.0
55°	3470.7	3498.4	3658.9	3964.3	4100.0	4516.5	4692.4	4479.5	4713.9	4257.4	4022.9
57.5°	3257.8	3233.1	3350.4	3742.2	3840.9	4211.1	4470.2	4300.6	4454.8	3933.4	3754.5
60°	3035.7	3001.7	3051.1	3310.3	3566.3	3908.8	4208.0	4103.1	4140.1	3612.6	3455.2
62.5°	2804.3	2770.4	2754.9	2918.5	3297.9	3597.2	3942.7	3884.1	3754.5	3319.5	3085.0
65°	2563.7	2529.7	2505.1	2569.8	3001.7	3193.0	3646.5	3631.1	3331.8	3011.0	2597.6
67.5°	780.5	2301.4	2249.0	2245.9	2529.7	2825.9	3325.7	3301.0	2906.1	2680.9	2236.7
70°	703.4	1866.5	1983.7	1955.9	2079.3	2452.6	2958.6	2940.0	2492.7	2150.3	1977.5
72.5°	644.8	660.2	1752.3	1721.5	1749.2	2085.5	2576.0	2526.7	2113.3	1696.8	1709.1
75°	552.2	580.0	604.7	1453.1	1416.0	1727.6	2159.5	2082.4	1743.0	1400.6	1428.4
77.5°	450.4	484.4	502.9	1058.2	1144.6	1230.9	1724.5	1622.7	1200.1	1119.9	533.7
80°	336.3	364.0	394.9	422.7	870.0	860.7	1280.3	1178.5	836.0	697.2	416.5
82.5°	246.8	256.1	274.6	305.4	345.5	576.9	823.7	725.0	580.0	317.8	286.9
85°	154.3	166.6	175.8	185.1	209.8	345.5	407.2	323.9	243.7	194.4	182.0
87.5°	98.7	98.7	95.6	98.7	101.8	123.4	138.8	132.7	104.9	98.7	98.7
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-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6
2.5°	6706.9	6663.7	6663.7	6651.4	6660.6	6660.6	6657.5	6660.6	6682.2	6694.5	6716.1
5°	6703.8	6691.5	6719.2	6753.2	6793.3	6842.6	6855.0	6898.2	6938.3	6990.7	7046.2
7.5°	6743.9	6787.1	6839.5	6895.1	6975.3	7033.9	7086.3	7138.8	7175.8	7225.2	7256.0
10°	6802.5	6888.9	6978.4	7049.3	7135.7	7185.1	7219.0	7225.2	7172.7	7089.4	7021.6
12.5°	6885.8	6987.6	7070.9	7138.8	7178.9	7160.4	7061.7	6959.9	6901.2	6814.9	6694.5
15°	6956.8	7049.3	7135.7	7107.9	7000.0	6898.2	6821.0	6700.7	6583.5	6503.3	6450.8
17.5°	6987.6	7077.1	7046.2	6901.2	6799.4	6682.2	6524.9	6432.3	6355.2	6293.5	6262.6
20°	7006.1	6990.7	6824.1	6719.2	6521.8	6413.8	6312.0	6225.6	6167.0	6136.2	6130.0
22.5°	6956.8	6768.6	6626.7	6438.5	6293.5	6204.0	6123.8	6052.9	6012.7	5988.1	5972.6
25°	6793.3	6574.2	6364.4	6216.4	6093.0	6015.8	5954.1	5895.5	5846.2	5833.8	5803.0
27.5°	6565.0	6386.0	6108.4	5994.2	5886.3	5849.2	5781.4	5722.8	5679.6	5642.5	5543.8
30°	6376.8	6093.0	5892.4	5787.5	5722.8	5679.6	5602.4	5540.7	5466.7	5331.0	5275.4
32.5°	6145.4	5864.7	5673.4	5614.8	5534.6	5497.5	5411.2	5275.4	5161.3	5105.7	5102.7
35°	5846.2	5614.8	5476.0	5423.5	5358.7	5297.0	5118.1	4994.7	4939.2	4945.3	4991.6
37.5°	5596.3	5389.6	5300.1	5226.1	5152.0	4994.7	4843.5	4784.9	4800.3	4831.2	4852.8
40°	5343.3	5186.0	5084.2	5025.5	4858.9	4704.7	4624.5	4646.1	4673.8	4695.4	4723.2
42.5°	5096.5	4985.4	4883.6	4769.5	4541.2	4457.9	4476.4	4504.2	4528.8	4559.7	4587.5
45°	4862.0	4763.3	4646.1	4386.9	4272.8	4294.4	4322.1	4343.7	4380.8	4402.4	4430.1
47.5°	4639.9	4535.0	4328.3	4100.0	4087.7	4130.9	4155.6	4183.3	4211.1	4155.6	2292.2
50°	4390.0	4282.0	3967.4	3881.0	3908.8	3948.9	3979.7	4007.5	3569.4	1419.1	1092.1
52.5°	4143.2	3868.6	3668.1	3692.8	3720.6	3766.8	3788.4	2813.6	1119.9	1067.4	1070.5
55°	3868.6	3516.9	3458.3	3489.2	3513.9	3560.1	2360.1	1033.5	1027.3	1024.2	1048.9
57.5°	3436.7	3223.9	3248.6	3279.4	3304.1	2332.3	1005.7	999.6	1002.6	1005.7	1008.8
60°	3051.1	3004.8	3032.6	3060.4	2165.7	971.8	953.3	956.4	968.7	959.4	934.8
62.5°	2745.7	2782.7	2810.5	2461.9	922.4	913.2	922.4	913.2	891.6	876.2	845.3
65°	2511.2	2548.2	2569.8	866.9	863.8	876.2	866.9	836.0	802.1	758.9	749.7
67.5°	2264.4	2301.4	823.7	802.1	814.5	799.0	762.0	725.0	700.3	663.3	647.9
70°	2008.4	860.7	746.6	743.5	721.9	697.2	657.1	620.1	589.2	573.8	558.4
72.5°	1450.0	681.8	672.5	647.9	610.8	576.9	543.0	521.4	505.9	496.7	487.4
75°	604.7	592.3	564.6	521.4	484.4	468.9	444.2	428.8	422.7	404.1	398.0
77.5°	505.9	481.3	441.2	410.3	388.7	379.5	361.0	342.4	333.2	330.1	317.8
80°	388.7	354.8	336.3	320.8	314.7	293.1	271.5	262.2	256.1	253.0	243.7
82.5°	265.3	253.0	240.6	219.0	219.0	209.8	200.5	194.4	188.2	188.2	182.0
85°	172.8	163.5	160.4	151.2	151.2	145.0	141.9	138.8	135.7	132.7	129.6
87.5°	98.7	98.7	101.8	98.7	98.7	95.6	92.6	89.5	86.4	86.4	80.2
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-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6
2.5°	6743.9	6774.8	6780.9	6885.8	6944.4	6941.3	6922.8	6978.4	6944.4	6925.9	6944.4
5°	7101.8	7138.8	7169.6	7283.8	7323.9	7342.4	7339.3	7370.2	7345.5	7323.9	7323.9
7.5°	7277.6	7290.0	7302.3	7274.5	7256.0	7225.2	7178.9	7111.0	7077.1	7040.1	6993.8
10°	6987.6	6947.5	6962.9	6907.4	6861.1	6827.2	6784.0	6728.5	6682.2	6648.3	6595.8
12.5°	6632.8	6629.8	6635.9	6645.2	6598.9	6571.1	6537.2	6497.1	6463.2	6426.1	6383.0
15°	6416.9	6420.0	6444.7	6435.4	6420.0	6404.6	6367.5	6355.2	6324.3	6284.2	6259.6
17.5°	6262.6	6278.1	6302.7	6290.4	6265.7	6250.3	6222.5	6194.8	6167.0	6136.2	6099.1
20°	6126.9	6142.3	6157.7	6142.3	6096.0	6074.5	6037.4	5951.0	5889.3	5827.6	5772.1
22.5°	5978.8	5988.1	5975.7	5926.4	5809.1	5753.6	5710.4	5685.7	5633.3	5599.4	5565.4
25°	5793.7	5741.3	5661.1	5605.5	5559.2	5534.6	5516.1	5513.0	5506.8	5500.6	5485.2
27.5°	5491.4	5472.9	5429.7	5408.1	5411.2	5420.4	5423.5	5432.8	5423.5	5411.2	5398.8
30°	5266.2	5275.4	5278.5	5284.7	5300.1	5309.4	5312.4	5324.8	5318.6	5309.4	5303.2
32.5°	5124.3	5145.9	5158.2	5176.7	5186.0	5201.4	5201.4	5219.9	5201.4	5198.3	5192.1
35°	5007.0	5025.5	5031.7	5059.5	5068.7	5084.2	5084.2	5099.6	5084.2	4926.8	3890.2
37.5°	4889.8	4908.3	4920.6	4945.3	4948.4	4957.7	4575.1	3347.3	2159.5	1672.1	1277.2
40°	4751.0	4772.6	4784.9	4794.2	3368.9	2137.9	1471.6	1197.0	1197.0	1206.3	1215.5
42.5°	4602.9	4618.3	3217.7	1872.6	1166.1	1163.1	1172.3	1181.6	1190.8	1203.2	1215.5
45°	3618.8	1826.3	1160.0	1132.2	1141.5	1153.8	1166.1	1178.5	1193.9	1206.3	1212.4
47.5°	1187.7	1113.7	1129.1	1116.8	1132.2	1147.6	1160.0	1172.3	1175.4	1178.5	1175.4
50°	1098.3	1098.3	1107.5	1107.5	1119.9	1126.0	1126.0	1126.0	1113.7	1110.6	1101.4
52.5°	1061.3	1085.9	1073.6	1079.8	1073.6	1064.3	1055.1	1045.8	1027.3	1021.1	1008.8
55°	1042.7	1052.0	1021.1	1011.9	999.6	974.9	962.5	950.2	934.8	928.6	913.2
57.5°	999.6	978.0	944.0	928.6	907.0	882.3	870.0	860.7	845.3	839.1	829.9
60°	919.3	876.2	854.6	836.0	811.4	789.8	780.5	774.3	762.0	758.9	749.7
62.5°	820.6	783.6	765.1	740.4	721.9	709.6	700.3	697.2	684.9	684.9	678.7
65°	712.6	694.1	678.7	654.0	644.8	632.4	629.3	626.3	620.1	617.0	610.8
67.5°	626.3	613.9	592.3	580.0	573.8	564.6	558.4	552.2	539.9	533.7	524.5
70°	549.1	539.9	518.3	509.0	496.7	481.3	472.0	465.8	456.6	450.4	441.2
72.5°	475.1	447.3	431.9	422.7	413.4	398.0	394.9	388.7	379.5	376.4	367.1
75°	382.5	361.0	351.7	345.5	336.3	327.0	327.0	327.0	317.8	314.7	311.6
77.5°	305.4	293.1	286.9	280.7	277.7	271.5	262.2	259.1	249.9	249.9	246.8
80°	234.5	228.3	222.1	219.0	216.0	209.8	203.6	200.5	191.3	191.3	188.2
82.5°	172.8	169.7	166.6	163.5	160.4	157.3	148.1	145.0	138.8	138.8	135.7
85°	123.4	120.3	114.1	111.1	111.1	108.0	98.7	95.6	89.5	89.5	89.5
87.5°	77.1	74.0	71.0	67.9	64.8	61.7	55.5	52.4	52.4	46.3	43.2
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-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6
2.5°	6907.4	6959.9	6953.7	6990.7	7000.0	7018.5	7024.6	7027.7	6981.5	7018.5	7021.6
5°	7314.6	7323.9	7330.1	7345.5	7360.9	7364.0	7348.6	7330.1	7336.2	7323.9	7293.0
7.5°	6987.6	6941.3	6932.1	6919.8	6913.6	6907.4	6879.6	6904.3	6876.6	6864.2	6821.0
10°	6586.6	6543.4	6540.3	6540.3	6549.5	6546.5	6540.3	6528.0	6552.6	6537.2	6528.0
12.5°	6376.8	6361.4	6370.6	6364.4	6389.1	6395.3	6389.1	6389.1	6383.0	6370.6	6376.8
15°	6250.3	6238.0	6247.2	6238.0	6256.5	6259.6	6244.1	6253.4	6238.0	6222.5	6216.4
17.5°	6083.7	6055.9	6034.3	6003.5	6006.6	6000.4	5981.9	5981.9	5966.5	5926.4	5929.5
20°	5762.9	5735.1	5722.8	5722.8	5738.2	5744.4	5741.3	5747.4	5732.0	5725.8	5701.2
22.5°	5562.3	5559.2	5565.4	5580.8	5605.5	5639.5	5642.5	5642.5	5642.5	5639.5	5608.6
25°	5491.4	5491.4	5497.5	5519.1	5537.7	5562.3	5568.5	5574.7	5568.5	5568.5	5540.7
27.5°	5411.2	5405.0	5417.3	5438.9	5460.5	5479.0	5494.5	5497.5	5488.3	5488.3	5497.5
30°	5312.4	5309.4	5324.8	5346.4	5364.9	5383.4	5398.8	5411.2	5398.8	5398.8	5389.6
32.5°	5210.6	5210.6	5216.8	5087.2	4717.0	4248.1	4257.4	3985.9	3797.7	3560.1	3874.8
35°	3251.6	2366.2	2033.0	1721.5	1502.4	1360.5	1357.4	1311.1	1289.5	1274.1	1271.0
37.5°	1227.8	1234.0	1246.4	1252.5	1261.8	1268.0	1271.0	1271.0	1271.0	1271.0	1268.0
40°	1224.8	1237.1	1246.4	1255.6	1264.9	1271.0	1271.0	1274.1	1277.2	1277.2	1277.2
42.5°	1227.8	1240.2	1252.5	1261.8	1268.0	1271.0	1274.1	1277.2	1277.2	1277.2	1277.2
45°	1224.8	1230.9	1230.9	1234.0	1234.0	1234.0	1237.1	1237.1	1234.0	1230.9	1237.1
47.5°	1178.5	1178.5	1169.2	1166.1	1163.1	1156.9	1160.0	1156.9	1153.8	1150.7	1156.9
50°	1098.3	1085.9	1079.8	1073.6	1070.5	1064.3	1067.4	1064.3	1061.3	1055.1	1064.3
52.5°	1002.6	999.6	987.2	981.0	978.0	981.0	974.9	971.8	968.7	965.6	968.7
55°	910.1	897.7	894.7	888.5	885.4	888.5	885.4	882.3	879.2	876.2	879.2
57.5°	826.8	817.5	814.5	808.3	808.3	808.3	808.3	805.2	802.1	799.0	802.1
60°	746.6	740.4	737.3	737.3	734.2	734.2	734.2	731.2	728.1	728.1	731.2
62.5°	678.7	678.7	669.5	666.4	666.4	669.5	666.4	663.3	660.2	657.1	663.3
65°	607.8	595.4	592.3	586.2	580.0	583.1	580.0	576.9	573.8	570.7	576.9
67.5°	521.4	518.3	505.9	499.8	496.7	499.8	496.7	493.6	490.5	487.4	493.6
70°	438.1	438.1	425.7	422.7	419.6	419.6	416.5	416.5	413.4	410.3	416.5
72.5°	364.0	364.0	361.0	354.8	351.7	348.6	345.5	342.4	342.4	345.5	345.5
75°	302.3	296.2	283.8	286.9	283.8	280.7	280.7	277.7	274.6	280.7	277.7
77.5°	237.5	234.5	225.2	228.3	225.2	222.1	222.1	219.0	216.0	219.0	219.0
80°	178.9	178.9	175.8	172.8	172.8	169.7	166.6	166.6	163.5	166.6	166.6
82.5°	129.6	129.6	126.5	123.4	120.3	120.3	117.2	117.2	117.2	117.2	117.2
85°	83.3	80.2	80.2	74.0	74.0	74.0	71.0	71.0	71.0	71.0	71.0
87.5°	40.1	40.1	37.0	37.0	33.9	30.9	30.9	27.8	27.8	30.9	30.9
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-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6
2.5°	6966.0	7006.1	6972.2	6987.6	6990.7	7043.2	7040.1	7052.4	7030.8	7006.1	6972.2
5°	7320.8	7302.3	7277.6	7336.2	7305.4	7342.4	7354.7	7379.4	7379.4	7376.3	7348.6
7.5°	6867.3	6827.2	6858.1	6879.6	6888.9	6864.2	6913.6	6969.1	7015.4	7043.2	7046.2
10°	6512.5	6524.9	6521.8	6531.0	6552.6	6549.5	6580.4	6611.2	6623.6	6642.1	6648.3
12.5°	6345.9	6342.8	6349.0	6370.6	6383.0	6379.9	6410.7	6429.2	6435.4	6438.5	6435.4
15°	6213.3	6191.7	6207.1	6210.2	6219.4	6219.4	6256.5	6284.2	6296.6	6302.7	6296.6
17.5°	5963.4	5910.9	5960.3	5960.3	5994.2	5988.1	6046.7	6093.0	6117.6	6136.2	6136.2
20°	5716.6	5691.9	5710.4	5704.2	5728.9	5725.8	5762.9	5793.7	5815.3	5830.7	5849.2
22.5°	5617.9	5624.0	5596.3	5599.4	5599.4	5596.3	5614.8	5630.2	5636.4	5645.6	5639.5
25°	5553.1	5559.2	5550.0	5534.6	5528.4	5534.6	5543.8	5562.3	5565.4	5559.2	5537.7
27.5°	5488.3	5469.8	5485.2	5457.4	5451.3	5463.6	5476.0	5479.0	5482.1	5482.1	5463.6
30°	5389.6	5374.1	5389.6	5377.2	5364.9	5377.2	5386.5	5386.5	5392.7	5395.7	5374.1
32.5°	3766.8	3797.7	4297.5	4599.8	5025.5	5241.5	5281.6	5281.6	5287.8	5287.8	5269.3
35°	1283.4	1286.5	1391.4	1508.6	1758.5	2067.0	2471.1	2680.9	3390.5	4238.8	5059.5
37.5°	1268.0	1264.9	1261.8	1258.7	1255.6	1252.5	1246.4	1243.3	1261.8	1496.2	2030.0
40°	1274.1	1271.0	1264.9	1261.8	1258.7	1252.5	1249.4	1243.3	1237.1	1230.9	1224.8
42.5°	1274.1	1271.0	1268.0	1264.9	1261.8	1258.7	1252.5	1246.4	1240.2	1230.9	1221.7
45°	1230.9	1230.9	1234.0	1234.0	1237.1	1237.1	1237.1	1234.0	1234.0	1230.9	1218.6
47.5°	1150.7	1150.7	1160.0	1160.0	1166.1	1172.3	1172.3	1178.5	1187.7	1193.9	1197.0
50°	1058.2	1058.2	1067.4	1070.5	1076.7	1085.9	1095.2	1098.3	1107.5	1119.9	1132.2
52.5°	965.6	965.6	974.9	974.9	981.0	990.3	999.6	1002.6	1015.0	1027.3	1042.7
55°	879.2	879.2	885.4	888.5	891.6	897.7	907.0	907.0	919.3	928.6	944.0
57.5°	802.1	808.3	808.3	808.3	811.4	817.5	823.7	823.7	833.0	842.2	854.6
60°	728.1	734.2	734.2	734.2	737.3	740.4	746.6	746.6	752.8	758.9	771.3
62.5°	660.2	666.4	666.4	669.5	669.5	672.5	678.7	675.6	681.8	684.9	694.1
65°	573.8	580.0	583.1	586.2	589.2	595.4	604.7	601.6	610.8	617.0	626.3
67.5°	490.5	496.7	496.7	499.8	502.9	509.0	515.2	515.2	524.5	530.6	543.0
70°	413.4	419.6	419.6	422.7	425.7	431.9	438.1	435.0	444.2	450.4	459.7
72.5°	342.4	348.6	348.6	351.7	351.7	357.9	364.0	370.2	370.2	376.4	382.5
75°	277.7	280.7	283.8	283.8	286.9	290.0	296.2	302.3	305.4	308.5	314.7
77.5°	219.0	222.1	225.2	225.2	228.3	231.4	234.5	246.8	253.0	256.1	256.1
80°	166.6	169.7	169.7	169.7	172.8	175.8	182.0	182.0	194.4	194.4	197.4
82.5°	117.2	120.3	120.3	120.3	123.4	129.6	132.7	135.7	141.9	145.0	145.0
85°	71.0	74.0	74.0	74.0	77.1	80.2	86.4	89.5	92.6	92.6	95.6
87.5°	27.8	30.9	33.9	33.9	37.0	40.1	43.2	46.3	49.4	49.4	52.4
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-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6
2.5°	6935.2	6956.8	6935.2	6947.5	6962.9	6935.2	6870.4	6845.7	6836.5	6799.4	6774.8
5°	7320.8	7320.8	7311.6	7336.2	7333.1	7290.0	7222.1	7191.2	7160.4	7120.3	7089.4
7.5°	7046.2	7070.9	7086.3	7182.0	7243.7	7249.9	7293.0	7302.3	7314.6	7302.3	7283.8
10°	6651.4	6642.1	6685.3	6774.8	6827.2	6855.0	6938.3	6978.4	7012.3	7080.2	7151.1
12.5°	6429.2	6441.6	6460.1	6524.9	6574.2	6561.9	6595.8	6623.6	6663.7	6731.6	6833.4
15°	6281.1	6293.5	6312.0	6361.4	6392.2	6376.8	6395.3	6413.8	6441.6	6475.5	6537.2
17.5°	6120.7	6142.3	6163.9	6216.4	6244.1	6241.0	6256.5	6262.6	6271.9	6293.5	6336.7
20°	5870.8	5938.7	5981.9	6052.9	6093.0	6086.8	6114.6	6123.8	6136.2	6157.7	6176.3
22.5°	5642.5	5661.1	5682.7	5759.8	5827.6	5910.9	5929.5	5954.1	5985.0	6006.6	6025.1
25°	5513.0	5500.6	5509.9	5562.3	5599.4	5605.5	5633.3	5713.5	5796.8	5833.8	5877.0
27.5°	5435.8	5423.5	5420.4	5445.1	5451.3	5435.8	5429.7	5454.4	5516.1	5577.8	5707.3
30°	5352.6	5337.1	5324.8	5346.4	5355.6	5334.0	5293.9	5272.3	5309.4	5324.8	5377.2
32.5°	5253.8	5238.4	5232.2	5244.6	5250.7	5232.2	5189.0	5164.4	5158.2	5145.9	5158.2
35°	5142.8	5127.3	5118.1	5121.2	5133.5	5118.1	5081.1	5050.2	5034.8	5000.9	4976.2
37.5°	2650.1	3754.5	4874.4	4991.6	5003.9	5000.9	4963.8	4929.9	4914.5	4874.4	4862.0
40°	1212.4	1354.3	2033.0	2656.2	3831.6	4868.2	4834.3	4800.3	4772.6	4760.2	4713.9
42.5°	1209.3	1212.4	1215.5	1200.1	1487.0	2532.8	3739.1	4667.7	4649.2	4618.3	4584.4
45°	1209.3	1193.9	1206.3	1187.7	1193.9	1190.8	1483.9	2394.0	4260.4	4451.7	4436.3
47.5°	1197.0	1187.7	1200.1	1184.7	1166.1	1175.4	1163.1	1178.5	1838.7	3119.0	4272.8
50°	1141.5	1147.6	1169.2	1166.1	1150.7	1163.1	1141.5	1160.0	1144.6	1255.6	2418.7
52.5°	1058.2	1070.5	1092.1	1110.6	1116.8	1132.2	1126.0	1132.2	1119.9	1123.0	1126.0
55°	959.4	974.9	993.4	1021.1	1033.5	1058.2	1076.7	1085.9	1101.4	1098.3	1073.6
57.5°	866.9	882.3	897.7	925.5	953.3	965.6	999.6	1018.1	1058.2	1048.9	1042.7
60°	780.5	792.9	808.3	814.5	848.4	870.0	900.8	919.3	971.8	984.1	1002.6
62.5°	703.4	709.6	721.9	731.2	752.8	774.3	789.8	820.6	848.4	888.5	916.3
65°	632.4	638.6	647.9	654.0	657.1	688.0	697.2	731.2	740.4	783.6	808.3
67.5°	552.2	564.6	576.9	583.1	589.2	607.8	613.9	629.3	650.9	669.5	700.3
70°	468.9	478.2	490.5	499.8	512.1	524.5	543.0	552.2	567.6	580.0	604.7
72.5°	391.8	401.1	407.2	416.5	425.7	435.0	450.4	472.0	484.4	505.9	512.1
75°	317.8	327.0	333.2	339.4	348.6	354.8	361.0	382.5	394.9	413.4	431.9
77.5°	262.2	262.2	268.4	286.9	283.8	283.8	290.0	302.3	311.6	323.9	342.4
80°	203.6	206.7	209.8	225.2	228.3	231.4	228.3	237.5	246.8	249.9	262.2
82.5°	151.2	154.3	154.3	163.5	172.8	172.8	172.8	175.8	185.1	188.2	194.4
85°	101.8	104.9	108.0	111.1	117.2	120.3	123.4	123.4	129.6	132.7	135.7
87.5°	55.5	61.7	64.8	67.9	71.0	74.0	77.1	80.2	83.3	86.4	89.5
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-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6	6731.6
2.5°	6765.5	6750.1	6740.8	6716.1	6710.0	6669.9	6676.0	6669.9	6669.9	6679.1	6710.0
5°	7055.5	6981.5	6962.9	6910.5	6867.3	6793.3	6747.0	6722.3	6685.3	6669.9	6691.5
7.5°	7252.9	7197.4	7151.1	7104.9	7043.2	6956.8	6892.0	6817.9	6756.2	6697.6	6682.2
10°	7219.0	7280.7	7280.7	7252.9	7194.3	7107.9	7030.8	6938.3	6830.3	6737.7	6682.2
12.5°	6932.1	7040.1	7126.5	7191.2	7249.9	7191.2	7114.1	7040.1	6919.8	6784.0	6682.2
15°	6617.4	6728.5	6836.5	6972.2	7114.1	7172.7	7169.6	7083.3	6975.3	6833.4	6691.5
17.5°	6395.3	6472.4	6531.0	6679.1	6851.9	7003.0	7104.9	7111.0	7006.1	6879.6	6694.5
20°	6228.7	6284.2	6333.6	6416.9	6568.1	6753.2	6941.3	7046.2	7027.7	6888.9	6703.8
22.5°	6077.5	6117.6	6157.7	6219.4	6339.8	6460.1	6679.1	6895.1	6987.6	6873.5	6694.5
25°	5926.4	5969.6	6000.4	6043.6	6139.2	6238.0	6392.2	6660.6	6867.3	6861.1	6676.0
27.5°	5747.4	5806.1	5843.1	5901.7	5966.5	6040.5	6145.4	6398.4	6694.5	6799.4	6626.7
30°	5531.5	5617.9	5673.4	5738.2	5793.7	5858.5	5941.8	6096.0	6463.2	6679.1	6574.2
32.5°	5219.9	5374.1	5497.5	5559.2	5620.9	5676.5	5750.5	5880.1	6179.3	6515.6	6515.6
35°	4997.8	5068.7	5179.8	5358.7	5435.8	5491.4	5559.2	5661.1	5852.3	6321.3	6420.0
37.5°	4825.0	4852.8	4908.3	5084.2	5229.1	5318.6	5386.5	5451.3	5639.5	6055.9	6296.6
40°	4695.4	4686.2	4680.0	4763.3	4970.0	5111.9	5189.0	5253.8	5398.8	5738.2	6133.1
42.5°	4544.3	4535.0	4504.2	4525.8	4627.6	4865.1	4982.3	5053.3	5173.6	5405.0	5954.1
45°	4386.9	4371.5	4359.2	4337.6	4374.6	4507.2	4747.9	4852.8	4920.6	5127.3	5728.9
47.5°	4226.5	4204.9	4189.5	4171.0	4149.4	4211.1	4439.4	4627.6	4744.8	4874.4	5457.4
50°	3998.2	4026.0	4007.5	3985.9	3967.4	3955.0	4050.7	4359.2	4504.2	4609.1	5127.3
52.5°	1885.0	3665.0	3819.3	3797.7	3773.0	3751.4	3773.0	4007.5	4269.7	4353.0	4729.4
55°	1073.6	1632.0	3396.6	3591.0	3569.4	3538.5	3520.0	3600.2	3992.0	4103.1	4365.3
57.5°	1033.5	1036.6	1499.3	3236.2	3356.5	3328.8	3307.2	3325.7	3658.9	3847.0	4047.6
60°	999.6	999.6	999.6	1431.5	3094.3	3103.6	3075.8	3044.9	3189.9	3560.1	3726.7
62.5°	925.5	944.0	953.3	953.3	1412.9	2866.0	2838.2	2829.0	2835.2	3214.6	3405.9
65°	829.9	873.1	891.6	903.9	903.9	1483.9	2594.5	2579.1	2557.5	2702.5	3082.0
67.5°	725.0	768.2	808.3	833.0	836.0	863.8	1548.7	2323.0	2292.2	2295.3	2736.4
70°	617.0	654.0	697.2	734.2	768.2	783.6	808.3	1928.2	2030.0	1986.8	2344.6
72.5°	533.7	549.1	580.0	617.0	657.1	694.1	715.7	768.2	1761.6	1715.3	1783.2
75°	444.2	456.6	478.2	502.9	533.7	576.9	613.9	650.9	934.8	1437.6	1428.4
77.5°	345.5	367.1	391.8	407.2	422.7	453.5	502.9	539.9	576.9	971.8	1144.6
80°	265.3	280.7	293.1	308.5	327.0	348.6	367.1	410.3	453.5	487.4	876.2
82.5°	197.4	206.7	216.0	222.1	228.3	240.6	274.6	290.0	317.8	348.6	413.4
85°	138.8	145.0	151.2	154.3	157.3	160.4	172.8	175.8	203.6	209.8	249.9
87.5°	89.5	92.6	98.7	101.8	101.8	104.9	108.0	108.0	108.0	101.8	123.4
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-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	6731.6	6731.6
2.5°	6734.7	6784.0
5°	6725.4	6790.2
7.5°	6700.7	6762.4
10°	6663.7	6737.7
12.5°	6623.6	6694.5
15°	6589.7	6642.1
17.5°	6552.6	6583.5
20°	6503.3	6528.0
22.5°	6453.9	6441.6
25°	6398.4	6370.6
27.5°	6327.4	6275.0
30°	6262.6	6170.1
32.5°	6200.9	6049.8
35°	6117.6	5926.4
37.5°	6031.3	5799.9
40°	5929.5	5654.9
42.5°	5821.5	5509.9
45°	5685.7	5371.1
47.5°	5565.4	5204.5
50°	5398.8	5025.5
52.5°	5195.2	4858.9
55°	4954.6	4655.3
57.5°	4695.4	4442.5
60°	4417.8	4198.7
62.5°	4081.5	3945.8
65°	3686.6	3655.8
67.5°	3171.4	3334.9
70°	2600.7	2967.8
72.5°	2175.0	2579.1
75°	1783.2	2144.1
77.5°	1412.9	1681.3
80°	882.3	1230.9
82.5°	592.3	808.3
85°	357.9	385.6
87.5°	138.8	141.9
90°	0.0	0.0

(END OF REPORT)