

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-LC-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 (P33518)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNLED-LD5-200HL-LC-UNV-L950-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
CLEAR LENSED
Light Source: -
Ballast/Driver: -

Summary

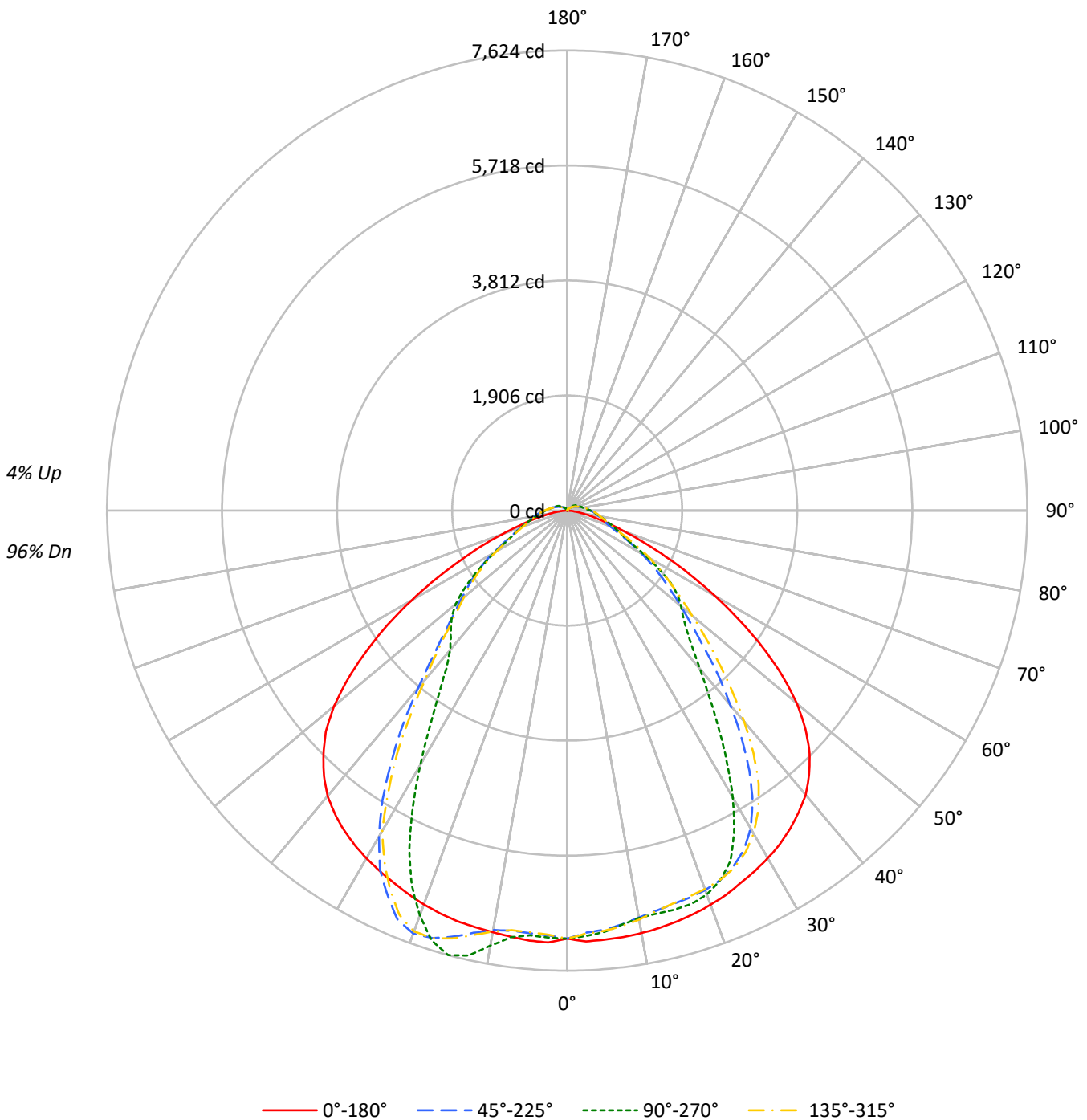
Lumens per Lamp: N/A
Luminaire Lumens: 16908.0 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

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



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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	0	
RCR																						
0	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96				
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	84	82				
2	100	93	86	81	97	90	85	80	86	82	77	82	79	75	79	76	73	71				
3	92	83	75	69	89	81	74	68	77	71	67	74	69	65	71	67	63	61				
4	85	74	66	60	83	73	65	59	70	63	58	67	61	57	64	60	56	54				
5	79	67	59	52	76	66	58	52	63	56	51	61	55	50	59	53	49	47				
6	73	61	52	46	71	60	52	46	57	51	45	55	49	45	54	48	44	42				
7	68	55	47	42	66	54	47	41	53	46	41	51	45	40	49	44	40	38				
8	64	51	43	37	62	50	42	37	48	42	37	47	41	36	45	40	36	34				
9	60	47	39	34	58	46	39	34	45	38	33	43	37	33	42	37	33	31				
10	56	43	36	31	54	43	36	31	42	35	30	40	34	30	39	34	30	28				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	28657	28657	28657	28657
5°	28905	27521	28965	27737
10°	29079	26377	29019	28167
15°	29346	26024	29331	28976
20°	29713	25611	29682	26997
25°	30126	24296	30110	23476
30°	30745	21057	30762	18655
35°	31406	17028	31495	14409
40°	32004	13710	32138	12079
45°	31968	11613	32133	11309
50°	30678	10692	31107	10453
55°	27314	9610	27995	8736
60°	22253	7355	23434	6746
65°	16640	5627	17928	5337
70°	11412	4858	12865	4644
75°	7566	4383	8808	4145
80°	5012	4086	5874	3760
85°	2738	4077	3603	3724



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	673.7	4.0
10°-20°	2004.5	11.9
20°-30°	3047.4	18.0
30°-40°	3269.1	19.3
40°-50°	2837.3	16.8
50°-60°	2102.7	12.4
60°-70°	1204.8	7.1
70°-80°	667.1	3.9
80°-90°	406.2	2.4
90°-100°	264.2	1.6
100°-110°	176.9	1.0
110°-120°	119.5	0.7
120°-130°	73.3	0.4
130°-140°	38.6	0.2
140°-150°	17.6	0.1
150°-160°	5.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5725.6	33.9
0°-40°	8994.7	53.2
0°-60°	13934.7	82.4
0°-90°	16212.8	95.9
90°-120°	560.6	3.3
90°-150°	690.0	4.1
90°-180°	695.0	4.1
0°-180°	16908.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	7092	7092	7092	7092	7092	
5°	7136	7008	7151	7063	7136	680
15°	7045	6847	7041	7624	7045	1993
25°	6807	6404	6803	6188	6807	3146
35°	6437	4360	6455	3689	6437	4029
45°	5682	2795	5711	2722	5682	4350
55°	3964	2096	4063	1905	3964	3515
65°	1799	1062	1938	1008	1799	1813
75°	513	674	597	637	513	586
85°	70	465	92	425	70	92
90°	0	388	7	359	0	3
95°	4	319	0	304	4	3
105°	4	238	4	227	4	4
115°	4	194	4	176	4	4
125°	4	146	4	121	4	3
135°	4	92	4	77	4	3
145°	4	55	7	44	4	3
155°	7	26	7	22	7	2
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	7092.5	7092.5	7092.5	7092.5	7092.5	7092.5	7092.5	7092.5	7092.5	7092.5	7092.5
2.5°	7143.8	7125.4	7118.1	7103.5	7114.5	7158.4	7129.1	7081.5	7085.2	7000.9	7044.9
5°	7136.4	7114.5	7103.5	7088.8	7096.1	7136.4	7107.1	7059.5	7055.8	6971.6	7011.9
7.5°	7125.4	7103.5	7085.2	7074.2	7077.8	7110.8	7074.2	7019.2	7008.2	6916.6	6953.3
10°	7107.1	7092.5	7066.8	7048.5	7044.9	7081.5	7022.9	6967.9	6942.3	6847.0	6883.7
12.5°	7081.5	7059.5	7033.9	7000.9	6997.2	7019.2	6971.6	6894.6	6869.0	6792.1	6832.4
15°	7044.9	7019.2	6989.9	6953.3	6934.9	6949.6	6891.0	6821.4	6817.7	6751.8	6806.7
17.5°	7004.6	6967.9	6934.9	6883.7	6858.0	6869.0	6821.4	6759.1	6766.4	6726.1	6788.4
20°	6949.6	6909.3	6858.0	6806.7	6770.1	6788.4	6755.4	6707.8	6718.8	6689.5	6744.4
22.5°	6887.3	6832.4	6770.1	6711.5	6682.2	6707.8	6682.2	6641.9	6645.5	6627.2	6660.2
25°	6806.7	6744.4	6671.2	6597.9	6583.3	6601.6	6586.9	6553.9	6539.3	6510.0	6524.6
27.5°	6733.5	6663.9	6572.3	6495.3	6469.7	6506.3	6473.4	6418.4	6378.1	6337.8	6308.5
30°	6649.2	6564.9	6462.4	6374.4	6352.5	6367.1	6319.5	6235.2	6129.0	6077.7	5997.1
32.5°	6557.6	6447.7	6319.5	6220.6	6205.9	6194.9	6107.0	5986.1	5821.3	5718.7	5594.1
35°	6436.7	6315.8	6162.0	6041.1	6019.1	5956.8	5813.9	5652.7	5440.3	5264.4	5051.9
37.5°	6301.2	6158.3	5997.1	5835.9	5773.6	5649.1	5447.6	5279.1	4956.7	4744.2	4487.8
40°	6147.3	5975.1	5777.3	5583.1	5480.6	5279.1	5048.3	4799.1	4487.8	4202.0	3985.9
42.5°	5934.8	5751.6	5517.2	5301.0	5125.2	4857.8	4586.7	4235.0	3949.2	3707.4	3487.6
45°	5682.0	5462.2	5191.1	4931.0	4707.6	4388.8	4070.1	3718.4	3480.3	3198.2	3048.0
47.5°	5356.0	5117.9	4828.5	4539.0	4246.0	3894.3	3560.9	3223.9	2985.7	2784.2	2674.3
50°	4971.3	4751.5	4432.8	4088.4	3766.0	3399.7	3066.3	2813.5	2582.7	2458.2	2373.9
52.5°	4495.1	4289.9	3963.9	3590.2	3278.8	2919.8	2615.7	2410.6	2245.7	2154.1	2124.8
55°	3963.9	3784.4	3462.0	3113.9	2795.2	2465.5	2234.7	2055.2	1949.0	1894.0	1897.7
57.5°	3396.0	3256.8	2952.8	2641.4	2341.0	2091.8	1883.0	1740.1	1659.6	1655.9	1666.9
60°	2828.2	2725.6	2461.9	2194.4	1930.6	1729.2	1575.3	1476.4	1425.1	1428.8	1425.1
62.5°	2286.0	2190.8	2000.3	1780.4	1571.6	1436.1	1296.9	1256.6	1212.6	1208.9	1208.9
65°	1798.8	1725.5	1571.6	1414.1	1256.6	1168.6	1099.0	1051.4	1018.4	1011.1	1014.8
67.5°	1351.8	1322.5	1216.3	1110.0	1011.1	956.2	897.6	886.6	860.9	860.9	868.2
70°	1007.5	985.5	926.9	864.6	824.3	787.6	758.3	758.3	754.7	751.0	769.3
72.5°	729.0	732.7	714.4	666.8	663.1	655.8	648.4	659.4	663.1	674.1	696.1
75°	512.9	523.9	523.9	516.5	531.2	549.5	560.5	578.8	600.8	615.5	641.1
77.5°	362.7	362.7	381.0	403.0	432.3	465.3	494.6	520.2	549.5	567.8	589.8
80°	234.5	245.5	274.8	315.1	355.4	399.3	439.6	472.6	501.9	531.2	545.9
82.5°	139.2	157.5	194.2	245.5	296.7	351.7	392.0	432.3	465.3	494.6	505.6
85°	69.6	95.3	139.2	194.2	249.1	307.7	359.0	395.7	432.3	457.9	472.6
87.5°	22.0	51.3	98.9	150.2	208.8	267.4	322.4	362.7	395.7	417.6	432.3
90°	0.0	25.6	69.6	124.6	179.5	238.1	289.4	333.4	366.3	384.7	395.7
92.5°	0.0	14.7	55.0	102.6	153.9	212.5	263.8	304.1	333.4	351.7	359.0
95°	3.7	11.0	40.3	84.3	135.5	190.5	238.1	274.8	304.1	322.4	326.0
97.5°	3.7	7.3	33.0	69.6	117.2	168.5	216.1	252.8	274.8	293.1	296.7
100°	3.7	7.3	25.6	62.3	102.6	150.2	194.2	227.1	252.8	267.4	271.1
102.5°	3.7	3.7	22.0	51.3	91.6	131.9	172.2	205.2	227.1	241.8	249.1
105°	3.7	3.7	18.3	44.0	80.6	117.2	153.9	186.8	205.2	219.8	227.1
107.5°	3.7	3.7	14.7	36.6	69.6	102.6	139.2	164.9	186.8	201.5	208.8
110°	3.7	3.7	11.0	33.0	58.6	91.6	120.9	146.5	168.5	183.2	190.5



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CATALOG NUMBER: 8SNLED-LD5-200HL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	3.7	3.7	11.0	29.3	51.3	80.6	106.2	131.9	150.2	164.9	175.8
115°	3.7	3.7	11.0	25.6	47.6	69.6	95.3	117.2	135.5	150.2	161.2
117.5°	3.7	3.7	11.0	22.0	40.3	62.3	84.3	106.2	120.9	135.5	146.5
120°	3.7	3.7	7.3	18.3	36.6	55.0	73.3	91.6	109.9	124.6	135.5
122.5°	3.7	3.7	7.3	18.3	29.3	47.6	65.9	80.6	98.9	109.9	120.9
125°	3.7	3.7	7.3	14.7	25.6	44.0	58.6	73.3	84.3	98.9	109.9
127.5°	3.7	3.7	7.3	14.7	22.0	36.6	51.3	65.9	76.9	87.9	95.3
130°	3.7	3.7	7.3	11.0	18.3	29.3	44.0	55.0	69.6	76.9	84.3
132.5°	3.7	3.7	3.7	11.0	14.7	22.0	33.0	47.6	58.6	69.6	73.3
135°	3.7	3.7	3.7	7.3	14.7	18.3	25.6	36.6	47.6	58.6	65.9
137.5°	3.7	3.7	3.7	7.3	11.0	18.3	22.0	29.3	40.3	47.6	58.6
140°	3.7	3.7	3.7	7.3	11.0	14.7	18.3	25.6	33.0	40.3	47.6
142.5°	3.7	3.7	3.7	7.3	7.3	11.0	14.7	22.0	25.6	33.0	40.3
145°	3.7	3.7	3.7	7.3	7.3	11.0	14.7	18.3	22.0	25.6	33.0
147.5°	3.7	3.7	3.7	7.3	7.3	7.3	11.0	14.7	18.3	22.0	25.6
150°	7.3	7.3	7.3	7.3	7.3	7.3	11.0	11.0	14.7	18.3	22.0
152.5°	7.3	7.3	7.3	7.3	7.3	7.3	11.0	11.0	11.0	14.7	18.3
155°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	11.0	11.0	14.7	14.7
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	7092.5	7092.5	7092.5	7092.5	7092.5	7092.5	7092.5	7092.5	7092.5	7092.5	7092.5
2.5°	7030.2	7037.5	7081.5	7077.8	7070.5	7063.2	7063.2	7055.8	7063.2	7081.5	7074.2
5°	6993.6	7004.6	7037.5	7033.9	7026.5	7022.9	7019.2	7008.2	7015.5	7041.2	7033.9
7.5°	6927.6	6938.6	6967.9	6953.3	6942.3	6949.6	6931.3	6920.3	6934.9	6960.6	6956.9
10°	6858.0	6865.3	6902.0	6894.6	6876.3	6880.0	6861.7	6854.4	6872.7	6887.3	6891.0
12.5°	6810.4	6836.0	6869.0	6865.3	6861.7	6865.3	6847.0	6839.7	6850.7	6865.3	6861.7
15°	6799.4	6832.4	6869.0	6869.0	6872.7	6876.3	6858.0	6847.0	6858.0	6869.0	6865.3
17.5°	6788.4	6828.7	6861.7	6858.0	6861.7	6869.0	6839.7	6832.4	6847.0	6861.7	6854.4
20°	6751.8	6788.4	6810.4	6803.1	6803.1	6806.7	6770.1	6770.1	6792.1	6803.1	6806.7
22.5°	6649.2	6693.2	6693.2	6674.8	6674.8	6660.2	6649.2	6627.2	6652.9	6671.2	6685.8
25°	6495.3	6513.6	6491.7	6451.4	6429.4	6411.1	6359.8	6403.7	6403.7	6458.7	6477.0
27.5°	6279.2	6238.9	6176.6	6092.3	6074.0	6015.4	5982.4	5993.4	6011.8	6088.7	6147.3
30°	5923.8	5802.9	5696.7	5660.1	5579.5	5520.8	5462.2	5491.5	5524.5	5568.5	5689.4
32.5°	5454.9	5337.7	5165.5	5103.2	5019.0	4945.7	4876.1	4920.0	4978.7	5008.0	5139.8
35°	4916.4	4777.2	4619.6	4513.4	4425.5	4385.2	4297.2	4359.5	4421.8	4443.8	4557.4
37.5°	4344.9	4202.0	4062.8	3971.2	3886.9	3861.3	3802.7	3846.6	3894.3	3927.2	4022.5
40°	3802.7	3670.8	3564.6	3502.3	3443.7	3421.7	3399.7	3418.0	3454.7	3480.3	3553.6
42.5°	3337.4	3231.2	3157.9	3121.3	3081.0	3051.7	3055.3	3062.7	3081.0	3135.9	3168.9
45°	2930.8	2868.5	2820.9	2813.5	2787.9	2784.2	2780.6	2795.2	2806.2	2839.2	2864.8
47.5°	2604.7	2579.1	2568.1	2582.7	2593.7	2579.1	2586.4	2604.7	2626.7	2626.7	2623.0
50°	2348.3	2355.6	2370.3	2403.2	2425.2	2432.5	2439.9	2461.9	2465.5	2472.8	2461.9
52.5°	2139.5	2146.8	2187.1	2238.4	2264.0	2275.0	2289.7	2311.6	2311.6	2319.0	2304.3
55°	1927.0	1938.0	1978.3	2029.6	2051.5	2066.2	2080.9	2095.5	2106.5	2121.1	2110.2
57.5°	1692.5	1725.5	1751.1	1765.8	1780.4	1791.4	1802.4	1806.1	1828.1	1831.7	1850.1
60°	1443.4	1450.7	1476.4	1472.7	1461.7	1491.0	1476.4	1502.0	1527.7	1560.6	1564.3
62.5°	1205.3	1208.9	1227.3	1219.9	1234.6	1230.9	1241.9	1241.9	1260.2	1274.9	1293.2
65°	1018.4	1022.1	1036.8	1036.8	1033.1	1044.1	1055.1	1062.4	1062.4	1073.4	1088.1
67.5°	879.2	890.2	904.9	912.2	919.5	919.5	930.5	934.2	941.5	945.2	952.5
70°	784.0	798.6	813.3	820.6	824.3	831.6	835.3	835.3	842.6	846.3	853.6
72.5°	714.4	729.0	740.0	740.0	747.3	751.0	751.0	754.7	758.3	765.7	773.0
75°	655.8	666.8	674.1	670.4	670.4	670.4	674.1	674.1	681.4	688.7	696.1
77.5°	600.8	611.8	611.8	604.5	604.5	604.5	604.5	608.1	611.8	619.1	626.5
80°	560.5	560.5	556.8	556.8	549.5	545.9	545.9	549.5	549.5	556.8	567.8
82.5°	516.5	516.5	512.9	509.2	505.6	501.9	501.9	505.6	509.2	512.9	520.2
85°	476.3	476.3	468.9	468.9	465.3	465.3	465.3	465.3	468.9	472.6	479.9
87.5°	436.0	432.3	428.6	425.0	425.0	425.0	425.0	425.0	428.6	436.0	439.6
90°	395.7	392.0	388.3	388.3	384.7	384.7	388.3	388.3	392.0	395.7	399.3
92.5°	359.0	355.4	351.7	351.7	348.0	348.0	351.7	348.0	355.4	355.4	359.0
95°	326.0	322.4	318.7	318.7	318.7	318.7	318.7	318.7	322.4	322.4	326.0
97.5°	296.7	293.1	289.4	289.4	293.1	289.4	293.1	293.1	293.1	296.7	300.4
100°	271.1	267.4	267.4	271.1	267.4	267.4	271.1	271.1	271.1	271.1	274.8
102.5°	249.1	249.1	249.1	249.1	249.1	249.1	252.8	252.8	252.8	252.8	256.4
105°	227.1	230.8	230.8	230.8	234.5	234.5	234.5	238.1	238.1	238.1	238.1
107.5°	212.5	216.1	216.1	219.8	219.8	223.5	223.5	223.5	223.5	227.1	227.1
110°	197.8	201.5	205.2	208.8	208.8	212.5	212.5	212.5	212.5	212.5	212.5



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	183.2	186.8	190.5	197.8	201.5	201.5	201.5	201.5	205.2	205.2	201.5
115°	168.5	175.8	179.5	186.8	190.5	190.5	194.2	194.2	194.2	194.2	190.5
117.5°	153.9	164.9	168.5	175.8	179.5	179.5	183.2	183.2	183.2	183.2	179.5
120°	142.9	150.2	157.5	161.2	164.9	168.5	168.5	172.2	172.2	172.2	168.5
122.5°	131.9	139.2	146.5	150.2	153.9	157.5	157.5	157.5	157.5	157.5	157.5
125°	117.2	124.6	131.9	135.5	139.2	142.9	142.9	146.5	146.5	146.5	142.9
127.5°	106.2	113.6	117.2	124.6	128.2	128.2	131.9	131.9	131.9	131.9	128.2
130°	91.6	98.9	106.2	109.9	113.6	113.6	117.2	117.2	117.2	117.2	117.2
132.5°	80.6	87.9	91.6	98.9	98.9	102.6	102.6	106.2	106.2	106.2	102.6
135°	73.3	76.9	80.6	87.9	87.9	91.6	91.6	91.6	91.6	91.6	91.6
137.5°	65.9	69.6	73.3	76.9	76.9	80.6	80.6	80.6	80.6	84.3	80.6
140°	55.0	62.3	65.9	65.9	69.6	69.6	69.6	73.3	73.3	73.3	69.6
142.5°	47.6	51.3	55.0	58.6	62.3	62.3	62.3	62.3	65.9	62.3	62.3
145°	36.6	44.0	47.6	51.3	55.0	55.0	55.0	55.0	55.0	55.0	55.0
147.5°	29.3	33.0	40.3	44.0	44.0	47.6	47.6	47.6	47.6	47.6	47.6
150°	25.6	25.6	33.0	36.6	40.3	40.3	40.3	40.3	40.3	40.3	40.3
152.5°	18.3	22.0	25.6	29.3	33.0	33.0	33.0	33.0	33.0	33.0	33.0
155°	18.3	18.3	22.0	22.0	25.6	25.6	25.6	25.6	29.3	25.6	25.6
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	7092.5	7092.5	7092.5	7092.5	7092.5	7092.5	7092.5	7092.5	7092.5	7092.5	7092.5
2.5°	7063.2	7059.5	7074.2	7059.5	6986.2	7015.5	7004.6	7044.9	7048.5	7059.5	7096.1
5°	7026.5	7026.5	7044.9	7030.2	6960.6	6989.9	6986.2	7026.5	7033.9	7041.2	7081.5
7.5°	6953.3	6956.9	6982.6	6971.6	6898.3	6942.3	6938.6	6986.2	7000.9	7015.5	7052.2
10°	6883.7	6880.0	6909.3	6898.3	6828.7	6880.0	6876.3	6924.0	6945.9	6971.6	7015.5
12.5°	6847.0	6836.0	6847.0	6836.0	6759.1	6799.4	6803.1	6858.0	6883.7	6916.6	6967.9
15°	6847.0	6828.7	6828.7	6806.7	6718.8	6744.4	6748.1	6784.7	6817.7	6850.7	6913.0
17.5°	6839.7	6821.4	6817.7	6799.4	6704.1	6704.1	6700.5	6726.1	6744.4	6777.4	6843.4
20°	6799.4	6792.1	6788.4	6777.4	6689.5	6674.8	6667.5	6667.5	6678.5	6689.5	6755.4
22.5°	6693.2	6700.5	6707.8	6715.1	6645.5	6619.9	6623.6	6616.2	6605.2	6605.2	6660.2
25°	6495.3	6532.0	6561.3	6594.2	6553.9	6535.6	6557.6	6546.6	6528.3	6513.6	6561.3
27.5°	6180.3	6257.2	6319.5	6400.1	6403.7	6389.1	6447.7	6440.4	6436.7	6414.7	6451.4
30°	5744.3	5865.2	5949.5	6066.7	6165.6	6180.3	6279.2	6293.8	6308.5	6297.5	6334.1
32.5°	5216.8	5381.6	5524.5	5707.7	5802.9	5887.2	6026.4	6085.0	6143.6	6162.0	6202.3
35°	4641.6	4828.5	4997.0	5198.5	5348.7	5531.8	5700.4	5788.3	5920.2	5971.5	6030.1
37.5°	4095.8	4271.6	4436.5	4638.0	4879.7	5070.2	5279.1	5476.9	5656.4	5729.7	5817.6
40°	3612.2	3755.1	3912.6	4088.4	4308.2	4557.4	4784.5	5059.3	5271.7	5418.3	5546.5
42.5°	3245.8	3315.4	3451.0	3608.5	3784.4	4037.1	4267.9	4575.7	4832.1	5040.9	5253.4
45°	2919.8	2952.8	3051.7	3135.9	3315.4	3538.9	3784.4	4084.8	4352.2	4619.6	4876.1
47.5°	2641.4	2681.7	2729.3	2780.6	2908.8	3095.6	3308.1	3579.2	3846.6	4158.0	4451.1
50°	2454.5	2465.5	2472.8	2494.8	2571.8	2700.0	2872.2	3103.0	3359.4	3692.8	4004.2
52.5°	2289.7	2289.7	2267.7	2256.7	2286.0	2366.6	2465.5	2630.4	2894.1	3201.9	3531.6
55°	2113.8	2080.9	2073.5	2036.9	2044.2	2080.9	2128.5	2256.7	2472.8	2736.6	3055.3
57.5°	1868.4	1853.7	1853.7	1839.1	1809.8	1828.1	1839.1	1930.6	2084.5	2311.6	2590.1
60°	1586.3	1579.0	1597.3	1600.9	1575.3	1586.3	1582.6	1637.6	1747.5	1930.6	2161.4
62.5°	1304.2	1337.2	1340.8	1355.5	1340.8	1337.2	1355.5	1403.1	1458.1	1597.3	1776.8
65°	1095.4	1113.7	1117.4	1135.7	1128.3	1128.3	1143.0	1179.6	1212.6	1307.9	1447.1
67.5°	959.8	952.5	956.2	967.2	956.2	952.5	963.5	985.5	1011.1	1069.7	1168.6
70°	853.6	846.3	846.3	846.3	831.6	820.6	824.3	831.6	842.6	875.6	937.8
72.5°	773.0	773.0	762.0	751.0	740.0	732.7	725.4	718.0	714.4	725.4	758.3
75°	699.7	703.4	699.7	688.7	674.1	659.4	644.8	630.1	611.8	604.5	608.1
77.5°	633.8	637.4	641.1	637.4	622.8	604.5	582.5	560.5	534.9	509.2	494.6
80°	575.2	582.5	586.2	582.5	571.5	556.8	531.2	505.6	468.9	436.0	399.3
82.5°	523.9	534.9	538.5	538.5	531.2	516.5	487.2	457.9	417.6	373.7	326.0
85°	483.6	490.9	498.2	498.2	494.6	479.9	450.6	417.6	377.3	326.0	274.8
87.5°	443.3	446.9	454.3	461.6	454.3	439.6	414.0	377.3	337.0	285.8	227.1
90°	403.0	406.6	414.0	421.3	417.6	403.0	381.0	348.0	304.1	249.1	190.5
92.5°	362.7	370.0	373.7	377.3	381.0	370.0	351.7	318.7	274.8	219.8	164.9
95°	333.4	333.4	340.7	344.4	348.0	337.0	322.4	289.4	249.1	197.8	142.9
97.5°	304.1	304.1	311.4	311.4	315.1	307.7	293.1	263.8	223.5	175.8	120.9
100°	274.8	278.4	282.1	285.8	285.8	282.1	267.4	238.1	201.5	157.5	106.2
102.5°	256.4	256.4	260.1	260.1	263.8	256.4	241.8	216.1	179.5	139.2	91.6
105°	238.1	238.1	241.8	241.8	238.1	230.8	216.1	194.2	161.2	120.9	80.6
107.5°	223.5	223.5	223.5	223.5	219.8	212.5	197.8	172.2	142.9	109.9	73.3
110°	212.5	208.8	208.8	205.2	201.5	190.5	175.8	153.9	128.2	95.3	62.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	201.5	197.8	194.2	190.5	183.2	172.2	157.5	139.2	113.6	84.3	55.0
115°	190.5	186.8	183.2	175.8	168.5	157.5	142.9	124.6	98.9	73.3	47.6
117.5°	179.5	175.8	168.5	161.2	153.9	142.9	128.2	109.9	87.9	65.9	44.0
120°	164.9	161.2	157.5	150.2	142.9	128.2	113.6	98.9	76.9	58.6	36.6
122.5°	153.9	150.2	142.9	139.2	128.2	117.2	102.6	87.9	69.6	51.3	33.0
125°	139.2	135.5	131.9	124.6	117.2	102.6	91.6	76.9	62.3	44.0	25.6
127.5°	128.2	124.6	117.2	109.9	102.6	91.6	80.6	69.6	55.0	36.6	25.6
130°	113.6	109.9	106.2	98.9	91.6	80.6	73.3	58.6	47.6	33.0	22.0
132.5°	98.9	98.9	95.3	87.9	80.6	73.3	62.3	51.3	40.3	29.3	18.3
135°	91.6	87.9	84.3	76.9	73.3	62.3	55.0	44.0	33.0	25.6	14.7
137.5°	80.6	76.9	73.3	69.6	62.3	55.0	47.6	36.6	29.3	22.0	14.7
140°	69.6	65.9	65.9	58.6	55.0	47.6	40.3	33.0	25.6	18.3	11.0
142.5°	62.3	58.6	55.0	51.3	47.6	40.3	33.0	25.6	22.0	14.7	11.0
145°	55.0	51.3	47.6	44.0	40.3	33.0	29.3	22.0	18.3	14.7	11.0
147.5°	44.0	44.0	40.3	36.6	33.0	29.3	25.6	22.0	14.7	11.0	7.3
150°	36.6	36.6	33.0	29.3	29.3	25.6	22.0	18.3	14.7	11.0	7.3
152.5°	33.0	29.3	29.3	25.6	25.6	22.0	18.3	14.7	11.0	11.0	7.3
155°	25.6	25.6	25.6	22.0	22.0	18.3	14.7	14.7	11.0	7.3	7.3
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	7092.5	7092.5	7092.5	7092.5	7092.5	7092.5	7092.5	7092.5	7092.5	7092.5	7092.5
2.5°	7103.5	7059.5	7096.1	7162.1	7154.8	7147.4	7140.1	7154.8	7202.4	7176.7	7136.4
5°	7092.5	7048.5	7088.8	7151.1	7147.4	7136.4	7129.1	7143.8	7191.4	7165.7	7121.8
7.5°	7070.5	7030.2	7059.5	7121.8	7121.8	7114.5	7107.1	7121.8	7165.7	7143.8	7099.8
10°	7033.9	7004.6	7033.9	7092.5	7096.1	7081.5	7074.2	7092.5	7136.4	7125.4	7088.8
12.5°	7004.6	6975.2	7008.2	7066.8	7070.5	7055.8	7044.9	7066.8	7125.4	7132.8	7121.8
15°	6964.3	6938.6	6978.9	7041.2	7041.2	7030.2	7030.2	7059.5	7140.1	7173.1	7191.4
17.5°	6905.6	6887.3	6934.9	6997.2	7000.9	6993.6	6997.2	7055.8	7162.1	7242.7	7294.0
20°	6832.4	6825.0	6876.3	6942.3	6953.3	6956.9	6975.2	7063.2	7209.7	7319.6	7370.9
22.5°	6744.4	6748.1	6806.7	6876.3	6891.0	6902.0	6938.6	7063.2	7246.3	7363.6	7385.6
25°	6645.5	6656.5	6718.8	6803.1	6821.4	6843.4	6905.6	7066.8	7257.3	7334.3	7297.6
27.5°	6539.3	6561.3	6641.9	6729.8	6751.8	6788.4	6869.0	7044.9	7206.0	7209.7	7074.2
30°	6429.4	6455.0	6550.3	6652.9	6689.5	6726.1	6825.0	6993.6	7081.5	6964.3	6726.1
32.5°	6304.8	6341.5	6436.7	6561.3	6605.2	6652.9	6751.8	6894.6	6861.7	6608.9	6268.2
35°	6147.3	6198.6	6308.5	6455.0	6495.3	6557.6	6627.2	6660.2	6513.6	6154.6	5770.0
37.5°	5953.1	6030.1	6158.3	6326.8	6370.8	6411.1	6429.4	6337.8	6044.7	5656.4	5257.1
40°	5729.7	5846.9	5986.1	6172.9	6216.9	6216.9	6151.0	5956.8	5586.8	5077.6	4634.3
42.5°	5458.6	5601.4	5777.3	5964.1	6008.1	5956.8	5799.3	5458.6	5037.3	4469.4	4000.5
45°	5128.9	5319.4	5517.2	5711.3	5733.3	5619.8	5337.7	4905.4	4385.2	3857.6	3410.7
47.5°	4736.9	4986.0	5202.1	5421.9	5392.6	5202.1	4824.8	4333.9	3784.4	3286.1	2927.1
50°	4297.2	4590.3	4832.1	5040.9	4978.7	4714.9	4271.6	3758.7	3212.9	2787.9	2491.2
52.5°	3828.3	4165.4	4407.2	4575.7	4491.4	4176.4	3689.1	3198.2	2751.3	2362.9	2165.1
55°	3341.1	3681.8	3930.9	4062.8	3952.9	3612.2	3132.3	2685.3	2264.0	2011.2	1894.0
57.5°	2868.5	3187.2	3421.7	3527.9	3388.7	3048.0	2604.7	2227.4	1923.3	1710.8	1652.2
60°	2414.2	2674.3	2897.8	2978.4	2828.2	2513.1	2132.1	1831.7	1608.3	1461.7	1432.4
62.5°	1992.9	2205.4	2381.3	2443.5	2297.0	2051.5	1721.8	1498.4	1340.8	1267.6	1230.9
65°	1644.9	1769.5	1949.0	1938.0	1850.1	1622.9	1381.1	1223.6	1121.0	1073.4	1051.4
67.5°	1293.2	1406.8	1520.3	1535.0	1425.1	1267.6	1110.0	996.5	941.5	915.9	904.9
70°	1000.1	1084.4	1154.0	1135.7	1077.1	978.1	879.2	817.0	795.0	784.0	784.0
72.5°	776.7	820.6	853.6	831.6	795.0	743.7	696.1	670.4	674.1	681.4	688.7
75°	600.8	611.8	619.1	597.1	589.8	556.8	553.2	556.8	578.8	600.8	611.8
77.5°	461.6	446.9	436.0	414.0	417.6	414.0	432.3	461.6	494.6	527.5	556.8
80°	355.4	322.4	296.7	274.8	285.8	304.1	340.7	384.7	428.6	465.3	501.9
82.5°	274.8	227.1	190.5	168.5	190.5	219.8	267.4	322.4	373.7	414.0	454.3
85°	212.5	157.5	113.6	91.6	113.6	157.5	208.8	271.1	326.0	370.0	410.3
87.5°	164.9	113.6	62.3	36.6	62.3	109.9	168.5	227.1	282.1	333.4	373.7
90°	131.9	76.9	29.3	7.3	33.0	76.9	131.9	190.5	245.5	300.4	340.7
92.5°	106.2	55.0	14.7	0.0	18.3	58.6	109.9	164.9	219.8	271.1	311.4
95°	87.9	44.0	11.0	0.0	14.7	44.0	87.9	142.9	194.2	245.5	278.4
97.5°	73.3	33.0	7.3	0.0	7.3	36.6	73.3	120.9	172.2	219.8	252.8
100°	62.3	29.3	7.3	0.0	7.3	29.3	62.3	106.2	150.2	194.2	227.1
102.5°	51.3	22.0	3.7	3.7	3.7	22.0	55.0	91.6	131.9	172.2	205.2
105°	47.6	18.3	3.7	3.7	3.7	18.3	47.6	80.6	117.2	153.9	183.2
107.5°	40.3	14.7	3.7	3.7	3.7	14.7	40.3	69.6	106.2	139.2	164.9
110°	33.0	14.7	3.7	3.7	3.7	14.7	33.0	62.3	91.6	120.9	146.5



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	29.3	11.0	3.7	3.7	3.7	11.0	29.3	55.0	80.6	109.9	131.9
115°	25.6	11.0	3.7	3.7	3.7	11.0	25.6	47.6	69.6	95.3	117.2
117.5°	22.0	11.0	3.7	3.7	3.7	7.3	22.0	40.3	62.3	84.3	106.2
120°	18.3	7.3	3.7	3.7	3.7	7.3	18.3	36.6	55.0	73.3	91.6
122.5°	18.3	7.3	3.7	3.7	3.7	7.3	14.7	29.3	47.6	62.3	80.6
125°	14.7	7.3	3.7	3.7	3.7	3.7	14.7	25.6	40.3	55.0	69.6
127.5°	14.7	7.3	3.7	3.7	3.7	3.7	11.0	22.0	33.0	47.6	62.3
130°	11.0	7.3	3.7	3.7	3.7	3.7	7.3	18.3	29.3	40.3	51.3
132.5°	11.0	7.3	3.7	3.7	3.7	3.7	7.3	14.7	22.0	33.0	44.0
135°	11.0	3.7	3.7	3.7	3.7	3.7	3.7	11.0	18.3	25.6	33.0
137.5°	7.3	3.7	3.7	3.7	3.7	3.7	3.7	7.3	14.7	18.3	29.3
140°	7.3	3.7	3.7	3.7	3.7	3.7	3.7	7.3	11.0	14.7	22.0
142.5°	7.3	3.7	3.7	3.7	3.7	3.7	3.7	3.7	7.3	11.0	18.3
145°	7.3	3.7	3.7	7.3	7.3	3.7	3.7	7.3	7.3	11.0	14.7
147.5°	7.3	3.7	3.7	3.7	3.7	3.7	3.7	3.7	7.3	7.3	11.0
150°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	11.0
152.5°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
155°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	7092.5	7092.5	7092.5	7092.5	7092.5	7092.5	7092.5	7092.5	7092.5	7092.5	7092.5
2.5°	7129.1	7044.9	7088.8	7074.2	7088.8	7125.4	7121.8	7110.8	7118.1	7099.8	7081.5
5°	7114.5	7030.2	7074.2	7055.8	7074.2	7110.8	7103.5	7092.5	7103.5	7081.5	7063.2
7.5°	7096.1	7019.2	7070.5	7066.8	7099.8	7147.4	7151.1	7151.1	7176.7	7143.8	7129.1
10°	7096.1	7055.8	7125.4	7151.1	7235.4	7297.6	7305.0	7319.6	7363.6	7356.2	7319.6
12.5°	7173.1	7165.7	7268.3	7330.6	7407.5	7495.5	7543.1	7557.7	7587.0	7565.1	7550.4
15°	7272.0	7308.6	7422.2	7491.8	7576.1	7642.0	7653.0	7660.3	7682.3	7649.3	7623.7
17.5°	7403.9	7425.9	7517.4	7546.7	7601.7	7612.7	7598.0	7561.4	7561.4	7488.1	7466.2
20°	7466.2	7455.2	7491.8	7444.2	7422.2	7356.2	7294.0	7224.4	7220.7	7143.8	7136.4
22.5°	7411.2	7337.9	7261.0	7143.8	7092.5	6997.2	6913.0	6872.7	6847.0	6748.1	6722.5
25°	7217.0	7037.5	6924.0	6784.7	6660.2	6550.3	6469.7	6385.4	6304.8	6224.2	6187.6
27.5°	6880.0	6711.5	6528.3	6334.1	6162.0	5993.4	5857.9	5773.6	5696.7	5590.5	5535.5
30°	6466.0	6231.6	6030.1	5843.2	5561.1	5356.0	5242.4	5073.9	5015.3	4967.7	4865.1
32.5°	5978.8	5696.7	5421.9	5169.2	4879.7	4689.2	4539.0	4414.5	4377.8	4253.3	4224.0
35°	5440.3	5070.2	4758.8	4509.7	4300.9	4070.1	3945.6	3861.3	3788.0	3703.8	3689.1
37.5°	4806.5	4473.1	4121.4	3901.6	3736.7	3538.9	3443.7	3385.0	3352.1	3289.8	3278.8
40°	4169.0	3835.7	3593.9	3374.1	3271.5	3165.2	3095.6	3070.0	3055.3	3033.4	3011.4
42.5°	3590.2	3297.1	3124.9	2978.4	2934.4	2883.2	2864.8	2879.5	2864.8	2857.5	2853.8
45°	3099.3	2875.8	2754.9	2711.0	2700.0	2685.3	2700.0	2725.6	2729.3	2722.0	2722.0
47.5°	2652.4	2546.1	2494.8	2502.1	2520.5	2531.5	2557.1	2590.1	2597.4	2579.1	2586.4
50°	2359.3	2297.0	2286.0	2315.3	2355.6	2370.3	2399.6	2425.2	2421.6	2414.2	2406.9
52.5°	2084.5	2066.2	2095.5	2124.8	2168.8	2176.1	2187.1	2198.1	2194.4	2179.8	2172.4
55°	1853.7	1868.4	1894.0	1905.0	1938.0	1934.3	1938.0	1938.0	1923.3	1916.0	1905.0
57.5°	1644.9	1648.6	1663.2	1666.9	1685.2	1677.9	1674.2	1666.9	1644.9	1641.2	1630.2
60°	1432.4	1425.1	1458.1	1432.4	1447.1	1432.4	1428.8	1410.4	1388.5	1384.8	1377.5
62.5°	1230.9	1216.3	1238.3	1227.3	1234.6	1219.9	1212.6	1190.6	1172.3	1168.6	1165.0
65°	1051.4	1044.1	1066.1	1062.4	1069.7	1051.4	1044.1	1029.4	1014.8	1011.1	1007.5
67.5°	901.2	919.5	930.5	930.5	937.8	934.2	915.9	912.2	908.5	893.9	893.9
70°	791.3	802.3	824.3	827.9	824.3	831.6	817.0	813.3	809.6	802.3	798.6
72.5°	703.4	718.0	740.0	743.7	740.0	740.0	732.7	729.0	729.0	718.0	718.0
75°	633.8	652.1	670.4	670.4	670.4	663.1	655.8	655.8	648.4	644.8	637.4
77.5°	575.2	597.1	611.8	608.1	604.5	597.1	597.1	586.2	575.2	575.2	567.8
80°	531.2	545.9	556.8	553.2	549.5	538.5	534.9	523.9	516.5	505.6	505.6
82.5°	483.6	501.9	509.2	505.6	498.2	487.2	483.6	476.3	468.9	465.3	457.9
85°	443.3	461.6	465.3	457.9	450.6	443.3	439.6	436.0	432.3	425.0	425.0
87.5°	403.0	421.3	421.3	417.6	410.3	406.6	403.0	399.3	395.7	392.0	388.3
90°	370.0	384.7	384.7	381.0	377.3	373.7	370.0	366.3	362.7	359.0	359.0
92.5°	337.0	351.7	351.7	348.0	344.4	340.7	340.7	337.0	333.4	329.7	326.0
95°	307.7	322.4	322.4	322.4	318.7	315.1	315.1	311.4	307.7	307.7	304.1
97.5°	278.4	293.1	293.1	293.1	289.4	285.8	285.8	282.1	282.1	282.1	278.4
100°	252.8	263.8	267.4	267.4	263.8	263.8	263.8	260.1	260.1	260.1	256.4
102.5°	227.1	238.1	245.5	245.5	245.5	241.8	241.8	241.8	241.8	241.8	238.1
105°	205.2	216.1	223.5	227.1	227.1	227.1	227.1	227.1	227.1	227.1	227.1
107.5°	186.8	197.8	205.2	208.8	212.5	212.5	216.1	216.1	216.1	216.1	216.1
110°	168.5	179.5	190.5	194.2	197.8	201.5	201.5	205.2	201.5	201.5	201.5



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	150.2	164.9	172.2	179.5	183.2	186.8	190.5	190.5	190.5	190.5	190.5
115°	135.5	150.2	157.5	164.9	172.2	175.8	175.8	179.5	179.5	179.5	175.8
117.5°	120.9	135.5	142.9	150.2	153.9	161.2	164.9	164.9	164.9	164.9	161.2
120°	109.9	120.9	128.2	135.5	142.9	146.5	150.2	150.2	150.2	150.2	150.2
122.5°	95.3	106.2	117.2	124.6	128.2	131.9	135.5	135.5	135.5	135.5	135.5
125°	84.3	95.3	102.6	109.9	113.6	120.9	120.9	120.9	120.9	120.9	120.9
127.5°	73.3	84.3	91.6	98.9	102.6	106.2	109.9	109.9	109.9	109.9	109.9
130°	62.3	73.3	80.6	87.9	91.6	95.3	95.3	98.9	98.9	98.9	98.9
132.5°	55.0	62.3	69.6	76.9	80.6	84.3	84.3	87.9	87.9	87.9	87.9
135°	44.0	55.0	58.6	65.9	69.6	73.3	73.3	76.9	76.9	76.9	76.9
137.5°	36.6	44.0	51.3	58.6	62.3	62.3	65.9	65.9	69.6	69.6	69.6
140°	29.3	33.0	44.0	47.6	51.3	55.0	58.6	58.6	58.6	58.6	58.6
142.5°	22.0	29.3	33.0	40.3	44.0	47.6	51.3	51.3	51.3	51.3	51.3
145°	18.3	22.0	25.6	33.0	36.6	40.3	44.0	44.0	44.0	44.0	44.0
147.5°	14.7	18.3	22.0	25.6	29.3	33.0	36.6	36.6	36.6	36.6	36.6
150°	11.0	14.7	18.3	18.3	22.0	25.6	29.3	33.0	33.0	33.0	33.0
152.5°	11.0	11.0	14.7	14.7	18.3	22.0	25.6	25.6	25.6	25.6	25.6
155°	7.3	11.0	11.0	11.0	14.7	14.7	18.3	22.0	22.0	22.0	22.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	7092.5	7092.5	7092.5	7092.5	7092.5	7092.5	7092.5	7092.5	7092.5	7092.5	7092.5
2.5°	7092.5	7107.1	7099.8	7088.8	7085.2	7103.5	7085.2	7000.9	7033.9	7037.5	7063.2
5°	7081.5	7092.5	7085.2	7077.8	7066.8	7088.8	7066.8	6978.9	7011.9	7015.5	7041.2
7.5°	7154.8	7158.4	7158.4	7140.1	7110.8	7121.8	7092.5	6993.6	7011.9	7011.9	7030.2
10°	7337.9	7345.3	7356.2	7308.6	7272.0	7242.7	7202.4	7081.5	7077.8	7048.5	7048.5
12.5°	7576.1	7557.7	7539.4	7517.4	7488.1	7451.5	7392.9	7250.0	7202.4	7154.8	7107.1
15°	7645.7	7638.3	7634.7	7623.7	7605.4	7594.4	7550.4	7407.5	7337.9	7279.3	7195.1
17.5°	7462.5	7477.1	7524.8	7528.4	7550.4	7594.4	7587.0	7488.1	7425.9	7400.2	7297.6
20°	7132.8	7136.4	7195.1	7220.7	7315.9	7389.2	7444.2	7433.2	7418.5	7447.8	7370.9
22.5°	6737.1	6762.8	6825.0	6865.3	6956.9	7041.2	7129.1	7176.7	7253.7	7374.6	7359.9
25°	6198.6	6231.6	6319.5	6385.4	6513.6	6641.9	6759.1	6843.4	6934.9	7165.7	7242.7
27.5°	5553.8	5605.1	5718.7	5784.6	5964.1	6096.0	6264.5	6429.4	6557.6	6821.4	6978.9
30°	4876.1	4920.0	5040.9	5132.5	5286.4	5465.9	5678.4	5912.8	6125.3	6392.8	6590.6
32.5°	4242.3	4289.9	4388.8	4469.4	4641.6	4791.8	5026.3	5315.7	5513.5	5883.5	6147.3
35°	3689.1	3733.1	3802.7	3872.3	4015.2	4169.0	4370.5	4652.6	4905.4	5290.1	5623.4
37.5°	3300.8	3308.1	3348.4	3388.7	3494.9	3612.2	3769.7	4018.8	4253.3	4667.3	5033.6
40°	3022.4	3022.4	3044.3	3055.3	3103.0	3172.6	3271.5	3465.6	3659.8	3974.9	4421.8
42.5°	2850.2	2842.9	2842.9	2846.5	2842.9	2875.8	2934.4	3026.0	3198.2	3458.3	3806.3
45°	2722.0	2707.3	2696.3	2670.7	2656.0	2656.0	2659.7	2692.7	2791.6	2960.1	3242.2
47.5°	2579.1	2575.4	2557.1	2527.8	2502.1	2483.8	2454.5	2443.5	2472.8	2568.1	2758.6
50°	2414.2	2395.9	2377.6	2355.6	2326.3	2308.0	2253.0	2256.7	2231.1	2275.0	2373.9
52.5°	2172.4	2157.8	2150.5	2132.1	2121.1	2113.8	2069.9	2025.9	2014.9	2022.2	2058.9
55°	1905.0	1912.3	1883.0	1897.7	1894.0	1861.0	1842.7	1809.8	1798.8	1795.1	1813.4
57.5°	1626.6	1633.9	1615.6	1630.2	1630.2	1611.9	1600.9	1600.9	1575.3	1553.3	1579.0
60°	1373.8	1359.1	1370.1	1388.5	1388.5	1377.5	1370.1	1370.1	1351.8	1344.5	1362.8
62.5°	1168.6	1154.0	1165.0	1183.3	1187.0	1179.6	1172.3	1172.3	1150.3	1150.3	1165.0
65°	1011.1	1014.8	1011.1	1025.8	1025.8	1029.4	1022.1	1014.8	989.1	1000.1	996.5
67.5°	897.6	893.9	893.9	908.5	904.9	912.2	904.9	893.9	875.6	860.9	857.3
70°	802.3	798.6	798.6	806.0	809.6	809.6	806.0	798.6	773.0	758.3	747.3
72.5°	718.0	714.4	718.0	721.7	725.4	729.0	725.4	718.0	696.1	677.7	659.4
75°	641.1	637.4	648.4	648.4	652.1	652.1	655.8	652.1	633.8	611.8	589.8
77.5°	564.2	567.8	578.8	582.5	589.8	593.5	597.1	597.1	578.8	560.5	531.2
80°	501.9	509.2	516.5	520.2	527.5	538.5	542.2	545.9	531.2	512.9	479.9
82.5°	457.9	461.6	468.9	472.6	483.6	487.2	490.9	498.2	490.9	472.6	436.0
85°	421.3	425.0	432.3	432.3	439.6	446.9	450.6	454.3	450.6	432.3	395.7
87.5°	388.3	392.0	395.7	399.3	403.0	406.6	410.3	414.0	410.3	392.0	359.0
90°	359.0	359.0	362.7	362.7	366.3	370.0	377.3	377.3	373.7	359.0	326.0
92.5°	326.0	329.7	329.7	333.4	337.0	340.7	344.4	344.4	340.7	326.0	296.7
95°	304.1	304.1	307.7	307.7	311.4	311.4	315.1	315.1	311.4	296.7	267.4
97.5°	278.4	278.4	278.4	278.4	282.1	282.1	285.8	285.8	282.1	267.4	241.8
100°	256.4	256.4	256.4	256.4	256.4	260.1	260.1	260.1	256.4	241.8	216.1
102.5°	238.1	238.1	238.1	238.1	238.1	238.1	238.1	238.1	230.8	219.8	194.2
105°	227.1	227.1	227.1	223.5	223.5	223.5	219.8	219.8	208.8	197.8	175.8
107.5°	212.5	212.5	212.5	208.8	208.8	205.2	201.5	201.5	190.5	179.5	157.5
110°	201.5	201.5	201.5	197.8	194.2	190.5	186.8	183.2	172.2	157.5	139.2



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	190.5	190.5	186.8	186.8	183.2	179.5	172.2	168.5	157.5	142.9	124.6
115°	175.8	175.8	175.8	172.2	168.5	164.9	161.2	153.9	142.9	128.2	109.9
117.5°	161.2	161.2	161.2	157.5	153.9	150.2	146.5	139.2	128.2	113.6	98.9
120°	146.5	146.5	146.5	142.9	139.2	135.5	131.9	124.6	113.6	102.6	84.3
122.5°	135.5	135.5	131.9	128.2	124.6	120.9	117.2	109.9	102.6	87.9	73.3
125°	120.9	120.9	117.2	117.2	113.6	109.9	106.2	98.9	87.9	76.9	65.9
127.5°	109.9	106.2	106.2	106.2	102.6	98.9	91.6	87.9	76.9	65.9	55.0
130°	95.3	95.3	95.3	91.6	91.6	87.9	80.6	73.3	65.9	58.6	47.6
132.5°	84.3	84.3	84.3	84.3	80.6	76.9	69.6	65.9	58.6	47.6	40.3
135°	76.9	76.9	73.3	73.3	69.6	65.9	62.3	55.0	47.6	40.3	33.0
137.5°	65.9	65.9	65.9	62.3	62.3	58.6	51.3	47.6	44.0	36.6	29.3
140°	58.6	58.6	55.0	55.0	51.3	51.3	47.6	40.3	36.6	29.3	25.6
142.5°	51.3	51.3	47.6	47.6	44.0	44.0	40.3	36.6	29.3	25.6	18.3
145°	44.0	44.0	40.3	40.3	40.3	36.6	33.0	29.3	25.6	22.0	18.3
147.5°	36.6	36.6	36.6	33.0	33.0	29.3	29.3	25.6	22.0	18.3	14.7
150°	33.0	33.0	29.3	29.3	29.3	25.6	22.0	22.0	18.3	14.7	11.0
152.5°	25.6	25.6	25.6	25.6	22.0	22.0	18.3	18.3	14.7	11.0	11.0
155°	22.0	22.0	22.0	18.3	18.3	18.3	14.7	14.7	11.0	11.0	7.3
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	7092.5	7092.5	7092.5	7092.5	7092.5	7092.5	7092.5
2.5°	7052.2	7048.5	7081.5	7077.8	7033.9	7099.8	7143.8
5°	7033.9	7030.2	7059.5	7066.8	7019.2	7088.8	7136.4
7.5°	7019.2	7015.5	7048.5	7059.5	7011.9	7074.2	7125.4
10°	7022.9	7004.6	7033.9	7041.2	6997.2	7063.2	7107.1
12.5°	7048.5	7004.6	7015.5	7015.5	6975.2	7033.9	7081.5
15°	7110.8	7019.2	7004.6	6993.6	6942.3	6997.2	7044.9
17.5°	7180.4	7055.8	7004.6	6967.9	6905.6	6953.3	7004.6
20°	7250.0	7096.1	7011.9	6953.3	6869.0	6913.0	6949.6
22.5°	7283.0	7132.8	7019.2	6931.3	6825.0	6847.0	6887.3
25°	7239.0	7118.1	7004.6	6898.3	6770.1	6773.8	6806.7
27.5°	7077.8	7044.9	6971.6	6865.3	6726.1	6707.8	6733.5
30°	6803.1	6894.6	6898.3	6821.4	6674.8	6638.2	6649.2
32.5°	6418.4	6623.6	6744.4	6729.8	6601.6	6550.3	6557.6
35°	5975.1	6231.6	6495.3	6583.3	6491.7	6451.4	6436.7
37.5°	5443.9	5788.3	6140.0	6356.1	6341.5	6315.8	6301.2
40°	4857.8	5271.7	5689.4	6033.7	6140.0	6140.0	6147.3
42.5°	4231.3	4714.9	5172.8	5608.8	5857.9	5912.8	5934.8
45°	3626.8	4114.1	4612.3	5114.2	5447.6	5619.8	5682.0
47.5°	3077.3	3568.2	4040.8	4590.3	5033.6	5257.1	5356.0
50°	2608.4	2974.7	3473.0	4018.8	4502.4	4777.2	4971.3
52.5°	2220.1	2505.8	2941.8	3451.0	3938.2	4315.6	4495.1
55°	1894.0	2088.2	2458.2	2897.8	3363.1	3755.1	3963.9
57.5°	1619.3	1773.1	2025.9	2392.2	2784.2	3172.6	3396.0
60°	1377.5	1483.7	1655.9	1945.3	2278.7	2612.1	2828.2
62.5°	1168.6	1238.3	1351.8	1564.3	1824.4	2084.5	2286.0
65°	1007.5	1036.8	1099.0	1230.9	1428.8	1626.6	1798.8
67.5°	849.9	868.2	915.9	996.5	1095.4	1238.3	1351.8
70°	732.7	732.7	736.4	784.0	835.3	926.9	1007.5
72.5°	637.4	626.5	604.5	615.5	626.5	677.7	729.0
75°	560.5	534.9	498.2	483.6	476.3	483.6	512.9
77.5°	494.6	457.9	414.0	377.3	348.0	337.0	362.7
80°	439.6	395.7	344.4	296.7	249.1	223.5	234.5
82.5°	395.7	340.7	285.8	230.8	175.8	139.2	139.2
85°	348.0	296.7	238.1	179.5	124.6	76.9	69.6
87.5°	315.1	260.1	197.8	142.9	87.9	40.3	22.0
90°	282.1	227.1	168.5	113.6	62.3	18.3	0.0
92.5°	252.8	201.5	146.5	91.6	44.0	11.0	0.0
95°	227.1	179.5	124.6	76.9	36.6	7.3	3.7
97.5°	201.5	157.5	109.9	62.3	25.6	7.3	3.7
100°	183.2	139.2	95.3	51.3	22.0	3.7	3.7
102.5°	161.2	124.6	80.6	44.0	18.3	3.7	3.7
105°	142.9	109.9	69.6	36.6	14.7	3.7	3.7
107.5°	128.2	95.3	62.3	33.0	14.7	3.7	3.7
110°	113.6	84.3	55.0	29.3	11.0	3.7	3.7



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	102.6	73.3	47.6	25.6	7.3	3.7	3.7
115°	87.9	65.9	40.3	22.0	7.3	3.7	3.7
117.5°	76.9	55.0	36.6	18.3	7.3	3.7	3.7
120°	65.9	47.6	29.3	14.7	3.7	3.7	3.7
122.5°	58.6	40.3	25.6	14.7	3.7	3.7	3.7
125°	51.3	36.6	22.0	11.0	3.7	3.7	3.7
127.5°	44.0	29.3	18.3	7.3	3.7	3.7	3.7
130°	36.6	25.6	14.7	7.3	3.7	3.7	3.7
132.5°	29.3	22.0	14.7	7.3	3.7	3.7	3.7
135°	25.6	18.3	11.0	7.3	3.7	3.7	3.7
137.5°	22.0	14.7	7.3	7.3	7.3	3.7	3.7
140°	18.3	11.0	7.3	7.3	7.3	7.3	3.7
142.5°	14.7	11.0	7.3	7.3	7.3	7.3	3.7
145°	11.0	7.3	7.3	7.3	7.3	7.3	3.7
147.5°	11.0	7.3	7.3	7.3	7.3	7.3	3.7
150°	7.3	7.3	7.3	7.3	7.3	7.3	7.3
152.5°	7.3	7.3	7.3	7.3	7.3	7.3	7.3
155°	7.3	7.3	7.3	7.3	7.3	7.3	7.3
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)