

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-LN-UNV-L940-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 (P33519)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNLED-LD5-200HL-LN-UNV-L940-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

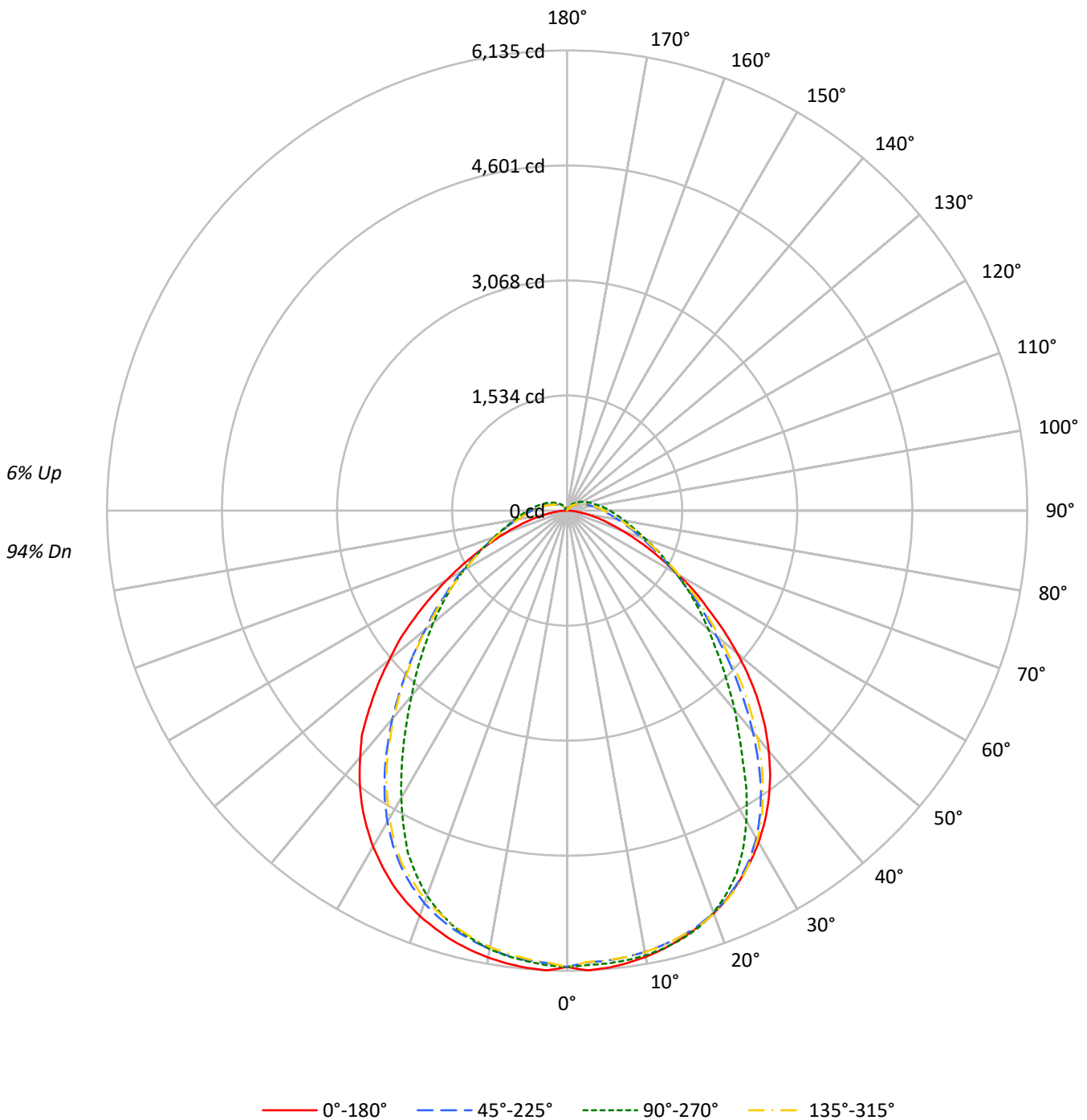
Lumens per Lamp: N/A
Luminaire Lumens: 15399.0 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

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	114	114	114	114	108	108	108	102	102	102	96	96	96	94				
1	107	103	98	95	104	100	96	92	94	91	88	89	87	85	85	83	81	79				
2	98	90	84	78	95	88	82	77	83	78	74	79	75	72	75	72	69	67				
3	90	80	72	66	87	78	71	65	74	68	63	71	66	61	67	63	60	57				
4	83	72	63	57	80	70	62	56	67	60	55	64	58	53	61	56	52	50				
5	77	64	56	50	74	63	55	49	60	53	48	58	52	47	55	50	46	44				
6	71	58	50	44	69	57	49	43	55	48	42	52	46	42	50	45	41	39				
7	66	53	45	39	64	52	44	39	50	43	38	48	42	37	46	41	37	35				
8	62	49	41	35	60	48	40	35	46	39	34	44	38	34	43	37	33	31				
9	58	45	37	32	56	44	37	31	42	36	31	41	35	30	40	34	30	28				
10	54	42	34	29	53	41	34	29	39	33	28	38	32	28	37	31	27	26				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	24586	24586	24586	24586
5°	24795	23803	24795	23698
10°	24718	23170	24759	22848
15°	24594	22478	24705	21893
20°	24441	21588	24585	20676
25°	24087	20267	24353	19073
30°	23616	18327	23926	16967
35°	22863	15949	23303	14851
40°	21764	13949	22339	12942
45°	20299	12126	20959	11430
50°	18279	10655	19084	10117
55°	15867	9409	17021	8933
60°	13404	8261	14616	7785
65°	11054	7304	12168	6772
70°	8872	6482	9933	5995
75°	7060	5985	7949	5506
80°	5222	5775	6152	5277
85°	3422	5807	4606	5337



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	576.9	3.7
10°-20°	1654.1	10.7
20°-30°	2451.5	15.9
30°-40°	2723.6	17.7
40°-50°	2468.9	16.0
50°-60°	1913.1	12.4
60°-70°	1299.1	8.4
70°-80°	826.5	5.4
80°-90°	528.4	3.4
90°-100°	356.3	2.3
100°-110°	244.0	1.6
110°-120°	162.8	1.1
120°-130°	101.2	0.7
130°-140°	56.0	0.4
140°-150°	26.3	0.2
150°-160°	9.6	0.1
160°-170°	0.6	0.0
170°-180°	0.0	0.0
0°-30°	4682.5	30.4
0°-40°	7406.1	48.1
0°-60°	11788.1	76.6
0°-90°	14442.1	93.8
90°-120°	763.1	5.0
90°-150°	946.6	6.1
90°-180°	957.0	6.2
0°-180°	15399.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	6085	6085	6085	6085	6085	
5°	6122	6061	6122	6035	6122	582
15°	5904	5914	5931	5760	5904	1666
25°	5442	5342	5502	5027	5442	2506
35°	4686	4083	4776	3802	4686	2923
45°	3608	2919	3725	2751	3608	2771
55°	2303	2052	2470	1948	2303	2073
65°	1195	1379	1315	1278	1195	1198
75°	479	920	539	847	479	515
85°	87	663	117	609	87	104
90°	0	572	7	522	0	5
95°	3	489	0	455	3	3
105°	3	358	0	338	3	3
115°	3	271	0	251	3	3
125°	3	201	3	177	3	3
135°	3	141	3	114	3	3
145°	3	90	3	64	3	2
155°	3	50	3	23	3	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-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	6084.8	6084.8	6084.8	6084.8	6084.8	6084.8	6084.8	6084.8	6084.8	6084.8	6084.8
2.5°	6135.0	6128.3	6121.6	6111.6	6121.6	6148.4	6131.6	6094.8	6088.1	6027.9	6054.7
5°	6121.6	6111.6	6104.9	6094.8	6108.2	6141.7	6125.0	6091.5	6081.4	6024.5	6054.7
7.5°	6088.1	6081.4	6071.4	6071.4	6084.8	6118.3	6104.9	6068.1	6061.4	6004.5	6037.9
10°	6041.3	6037.9	6031.2	6031.2	6044.6	6084.8	6068.1	6034.6	6027.9	5974.3	6011.2
12.5°	5981.0	5984.4	5974.3	5974.3	5994.4	6034.6	6021.2	5984.4	5977.7	5930.8	5967.6
15°	5904.1	5907.4	5900.7	5904.1	5924.1	5971.0	5954.3	5920.8	5914.1	5877.3	5907.4
17.5°	5817.0	5820.4	5820.4	5817.0	5840.5	5887.3	5873.9	5843.8	5833.8	5803.6	5840.5
20°	5716.6	5716.6	5716.6	5716.6	5743.4	5790.3	5773.5	5750.1	5730.0	5706.6	5736.7
22.5°	5592.8	5589.4	5592.8	5602.8	5629.6	5666.4	5656.4	5629.6	5599.5	5586.1	5609.5
25°	5442.2	5452.2	5455.6	5465.6	5499.1	5529.2	5519.2	5492.4	5445.5	5435.5	5442.2
27.5°	5284.9	5291.6	5301.6	5298.3	5345.1	5375.2	5355.1	5331.7	5264.8	5254.7	5248.0
30°	5107.5	5117.5	5124.2	5120.9	5157.7	5191.1	5171.1	5140.9	5050.6	5043.9	4990.3
32.5°	4906.7	4916.7	4923.4	4923.4	4976.9	4990.3	4953.5	4910.0	4812.9	4789.5	4742.7
35°	4685.8	4695.8	4699.1	4699.1	4752.7	4749.3	4702.5	4642.2	4535.1	4505.0	4424.7
37.5°	4448.1	4454.8	4458.2	4478.2	4501.7	4481.6	4421.3	4344.4	4264.0	4180.4	4093.3
40°	4180.4	4190.4	4197.1	4210.5	4233.9	4210.5	4123.5	4029.8	3942.7	3849.0	3762.0
42.5°	3905.9	3936.0	3929.3	3926.0	3939.4	3875.8	3808.9	3701.7	3614.7	3517.7	3430.6
45°	3608.0	3604.7	3621.4	3628.1	3624.8	3571.2	3477.5	3380.4	3293.4	3193.0	3119.4
47.5°	3293.4	3290.1	3303.5	3310.2	3290.1	3233.2	3159.5	3049.1	2975.5	2888.4	2831.5
50°	2962.1	2962.1	2982.1	2962.1	2952.0	2895.1	2834.9	2724.4	2667.5	2590.6	2557.1
52.5°	2630.7	2660.8	2640.8	2634.1	2624.0	2567.1	2520.3	2429.9	2383.0	2349.6	2309.4
55°	2302.7	2336.2	2322.8	2312.8	2309.4	2262.6	2219.0	2152.1	2122.0	2098.5	2075.1
57.5°	2024.9	2021.6	2014.9	2004.8	2008.2	1971.4	1927.9	1891.0	1877.6	1867.6	1874.3
60°	1703.6	1730.4	1720.3	1723.7	1727.0	1720.3	1683.5	1660.1	1663.4	1666.8	1676.8
62.5°	1439.2	1462.6	1479.4	1466.0	1472.7	1482.7	1462.6	1455.9	1469.3	1482.7	1496.1
65°	1194.9	1218.3	1235.0	1231.7	1251.8	1271.8	1268.5	1275.2	1305.3	1322.1	1338.8
67.5°	974.0	997.4	1020.8	1024.2	1054.3	1084.4	1097.8	1121.2	1154.7	1178.1	1198.2
70°	783.2	803.3	830.0	846.8	886.9	927.1	950.5	997.4	1017.5	1050.9	1064.3
72.5°	612.5	629.2	666.0	706.2	739.7	789.9	836.7	876.9	907.0	943.8	960.6
75°	478.6	485.3	525.5	572.3	619.2	676.1	726.3	769.8	810.0	846.8	873.6
77.5°	351.4	361.5	398.3	461.9	515.4	575.7	632.6	679.4	722.9	759.8	796.6
80°	244.3	264.4	304.6	368.2	428.4	495.4	548.9	602.5	649.3	686.1	722.9
82.5°	157.3	174.0	230.9	294.5	358.1	425.1	482.0	535.5	585.7	625.9	659.4
85°	87.0	110.4	167.3	234.3	297.9	364.8	425.1	478.6	528.8	565.6	599.1
87.5°	33.5	66.9	120.5	184.1	247.7	311.3	374.9	425.1	475.3	515.4	545.6
90°	0.0	40.2	90.4	154.0	217.6	281.1	341.4	394.9	441.8	478.6	512.1
92.5°	3.3	26.8	70.3	123.8	184.1	244.3	301.2	354.8	401.6	438.5	468.6
95°	3.3	20.1	56.9	107.1	160.7	217.6	271.1	321.3	364.8	401.6	431.8
97.5°	3.3	13.4	46.9	93.7	140.6	197.5	247.7	294.5	334.7	371.5	394.9
100°	3.3	13.4	40.2	80.3	127.2	177.4	224.2	271.1	307.9	338.0	364.8
102.5°	3.3	10.0	33.5	70.3	113.8	157.3	204.2	247.7	281.1	311.3	338.0
105°	3.3	10.0	30.1	60.2	100.4	143.9	184.1	224.2	261.1	287.8	311.3
107.5°	3.3	6.7	26.8	50.2	87.0	130.5	170.7	204.2	237.6	264.4	287.8
110°	3.3	6.7	23.4	46.9	77.0	117.1	154.0	187.4	217.6	244.3	264.4



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CATALOG NUMBER: 8SNLED-LD5-200HL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	3.3	6.7	20.1	43.5	70.3	103.8	140.6	170.7	200.8	224.2	244.3
115°	3.3	6.7	20.1	40.2	63.6	90.4	123.8	157.3	180.7	207.5	224.2
117.5°	3.3	6.7	16.7	33.5	60.2	83.7	113.8	140.6	167.3	190.8	207.5
120°	3.3	6.7	16.7	30.1	53.6	77.0	100.4	127.2	154.0	170.7	187.4
122.5°	3.3	6.7	13.4	30.1	46.9	70.3	90.4	113.8	137.2	157.3	174.0
125°	3.3	6.7	13.4	26.8	43.5	63.6	83.7	100.4	123.8	140.6	157.3
127.5°	3.3	6.7	13.4	23.4	40.2	56.9	77.0	93.7	110.4	127.2	140.6
130°	3.3	6.7	10.0	20.1	36.8	50.2	66.9	87.0	100.4	113.8	127.2
132.5°	3.3	6.7	10.0	20.1	30.1	43.5	60.2	77.0	90.4	103.8	113.8
135°	3.3	6.7	10.0	16.7	26.8	40.2	50.2	66.9	80.3	93.7	103.8
137.5°	3.3	6.7	10.0	16.7	23.4	33.5	43.5	56.9	70.3	80.3	93.7
140°	3.3	6.7	10.0	13.4	20.1	30.1	40.2	46.9	60.2	70.3	80.3
142.5°	3.3	6.7	10.0	13.4	20.1	26.8	33.5	40.2	50.2	60.2	70.3
145°	3.3	6.7	10.0	13.4	16.7	23.4	30.1	36.8	40.2	50.2	56.9
147.5°	3.3	6.7	10.0	13.4	13.4	20.1	26.8	30.1	36.8	40.2	46.9
150°	3.3	6.7	10.0	10.0	13.4	16.7	23.4	26.8	30.1	36.8	40.2
152.5°	3.3	6.7	10.0	10.0	13.4	16.7	20.1	23.4	26.8	30.1	33.5
155°	3.3	6.7	10.0	10.0	10.0	13.4	16.7	20.1	23.4	26.8	30.1
157.5°	6.7	6.7	6.7	10.0	10.0	13.4	13.4	16.7	20.1	20.1	23.4
160°	6.7	6.7	6.7	10.0	10.0	10.0	13.4	13.4	16.7	16.7	20.1
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°	6084.8	6084.8	6084.8	6084.8	6084.8	6084.8	6084.8	6084.8	6084.8	6084.8	6084.8
2.5°	6048.0	6058.0	6088.1	6088.1	6081.4	6074.7	6074.7	6064.7	6071.4	6084.8	6078.1
5°	6048.0	6058.0	6088.1	6088.1	6081.4	6074.7	6071.4	6061.4	6071.4	6084.8	6078.1
7.5°	6027.9	6041.3	6071.4	6071.4	6064.7	6061.4	6054.7	6048.0	6058.0	6071.4	6064.7
10°	6001.1	6014.5	6044.6	6044.6	6037.9	6037.9	6027.9	6021.2	6034.6	6044.6	6041.3
12.5°	5961.0	5977.7	6004.5	6001.1	5994.4	5997.8	5987.7	5974.3	5987.7	5997.8	6001.1
15°	5904.1	5924.1	5950.9	5944.2	5934.2	5940.9	5924.1	5914.1	5924.1	5944.2	5940.9
17.5°	5830.4	5843.8	5863.9	5863.9	5853.8	5847.2	5840.5	5830.4	5837.1	5850.5	5853.8
20°	5726.7	5743.4	5753.4	5743.4	5740.1	5730.0	5716.6	5706.6	5720.0	5740.1	5743.4
22.5°	5589.4	5592.8	5616.2	5592.8	5576.0	5572.7	5559.3	5539.2	5559.3	5576.0	5579.4
25°	5418.7	5435.5	5425.4	5385.3	5385.3	5358.5	5351.8	5341.8	5345.1	5375.2	5388.6
27.5°	5201.2	5207.9	5181.1	5147.6	5117.5	5100.8	5077.4	5080.7	5080.7	5120.9	5134.2
30°	4963.6	4926.7	4903.3	4849.8	4826.3	4786.2	4779.5	4779.5	4772.8	4792.9	4853.1
32.5°	4679.1	4628.9	4592.0	4541.8	4501.7	4461.5	4441.4	4451.5	4448.1	4498.3	4518.4
35°	4367.8	4337.7	4260.7	4197.1	4173.7	4113.4	4113.4	4083.3	4103.4	4160.3	4183.7
37.5°	4039.8	3992.9	3929.3	3859.1	3842.3	3795.5	3778.7	3762.0	3805.5	3815.5	3839.0
40°	3705.1	3661.6	3601.3	3534.4	3534.4	3477.5	3477.5	3477.5	3480.8	3500.9	3544.4
42.5°	3387.1	3340.3	3286.7	3239.9	3233.2	3189.7	3189.7	3186.3	3193.0	3209.7	3249.9
45°	3079.2	3042.4	2985.5	2962.1	2965.4	2918.6	2928.6	2918.6	2931.9	2948.7	2962.1
47.5°	2794.7	2771.3	2747.9	2714.4	2704.4	2701.0	2684.3	2670.9	2694.3	2694.3	2714.4
50°	2530.3	2516.9	2503.5	2483.5	2486.8	2473.4	2453.3	2453.3	2470.1	2473.4	2486.8
52.5°	2299.4	2282.6	2265.9	2269.2	2272.6	2265.9	2255.9	2245.8	2255.9	2262.6	2279.3
55°	2068.4	2055.0	2071.8	2065.1	2071.8	2065.1	2058.4	2051.7	2068.4	2058.4	2075.1
57.5°	1860.9	1874.3	1881.0	1867.6	1877.6	1871.0	1874.3	1864.3	1877.6	1884.3	1881.0
60°	1670.1	1690.2	1680.2	1683.5	1696.9	1690.2	1676.8	1686.9	1700.3	1703.6	1700.3
62.5°	1496.1	1519.5	1529.6	1522.9	1526.2	1519.5	1529.6	1516.2	1532.9	1539.6	1529.6
65°	1338.8	1365.6	1372.3	1372.3	1372.3	1365.6	1375.6	1379.0	1385.6	1385.6	1379.0
67.5°	1204.9	1228.3	1235.0	1241.7	1235.0	1228.3	1228.3	1231.7	1245.1	1251.8	1245.1
70°	1084.4	1107.8	1111.2	1111.2	1114.5	1121.2	1107.8	1114.5	1124.6	1127.9	1124.6
72.5°	980.7	1004.1	1010.8	1007.4	1010.8	1014.1	1014.1	1007.4	1017.5	1024.2	1024.2
75°	897.0	910.4	917.1	917.1	920.4	923.8	923.8	920.4	927.1	930.5	933.8
77.5°	820.0	830.0	840.1	840.1	843.4	840.1	846.8	846.8	850.1	853.5	856.8
80°	743.0	756.4	763.1	766.5	773.1	776.5	776.5	776.5	779.8	783.2	783.2
82.5°	682.8	692.8	702.9	712.9	712.9	716.3	716.3	716.3	719.6	719.6	722.9
85°	622.5	635.9	646.0	652.7	656.0	659.4	659.4	662.7	662.7	662.7	666.0
87.5°	569.0	585.7	592.4	599.1	602.5	609.1	609.1	609.1	612.5	612.5	612.5
90°	532.2	548.9	555.6	562.3	565.6	569.0	569.0	572.3	572.3	575.7	575.7
92.5°	488.7	505.4	518.8	518.8	522.1	528.8	525.5	525.5	528.8	532.2	532.2
95°	455.2	468.6	478.6	482.0	485.3	485.3	485.3	488.7	485.3	488.7	488.7
97.5°	415.0	428.4	438.5	445.1	448.5	448.5	448.5	451.8	448.5	451.8	451.8
100°	381.6	394.9	405.0	408.3	415.0	415.0	415.0	415.0	415.0	415.0	418.4
102.5°	354.8	368.2	374.9	378.2	381.6	384.9	384.9	384.9	384.9	388.2	388.2
105°	328.0	341.4	348.1	351.4	354.8	358.1	358.1	358.1	361.5	361.5	358.1
107.5°	304.6	314.6	321.3	328.0	331.3	331.3	334.7	334.7	334.7	334.7	334.7
110°	281.1	291.2	301.2	307.9	307.9	311.3	311.3	314.6	314.6	311.3	314.6



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	257.7	271.1	277.8	284.5	287.8	291.2	291.2	291.2	291.2	291.2	291.2
115°	237.6	251.0	257.7	264.4	267.8	271.1	271.1	271.1	271.1	271.1	271.1
117.5°	220.9	234.3	241.0	244.3	247.7	251.0	254.4	254.4	254.4	254.4	251.0
120°	204.2	214.2	220.9	227.6	230.9	234.3	234.3	234.3	234.3	234.3	234.3
122.5°	187.4	197.5	204.2	210.9	214.2	217.6	217.6	217.6	217.6	217.6	217.6
125°	170.7	180.7	187.4	194.1	197.5	200.8	200.8	200.8	200.8	200.8	200.8
127.5°	154.0	164.0	174.0	177.4	180.7	184.1	184.1	184.1	187.4	184.1	184.1
130°	137.2	147.3	157.3	160.7	164.0	167.3	170.7	170.7	170.7	170.7	167.3
132.5°	123.8	133.9	140.6	143.9	150.6	150.6	154.0	154.0	154.0	154.0	150.6
135°	113.8	120.5	127.2	130.5	137.2	137.2	137.2	140.6	140.6	137.2	133.9
137.5°	100.4	107.1	113.8	117.1	120.5	123.8	123.8	127.2	123.8	123.8	123.8
140°	93.7	97.1	103.8	107.1	110.4	110.4	110.4	113.8	113.8	110.4	110.4
142.5°	80.3	87.0	93.7	97.1	100.4	100.4	100.4	100.4	100.4	100.4	100.4
145°	66.9	77.0	80.3	87.0	87.0	90.4	90.4	90.4	90.4	90.4	87.0
147.5°	56.9	63.6	73.6	77.0	77.0	80.3	80.3	80.3	80.3	80.3	77.0
150°	43.5	50.2	60.2	66.9	66.9	70.3	70.3	70.3	70.3	66.9	66.9
152.5°	36.8	43.5	46.9	53.6	56.9	56.9	56.9	60.2	56.9	56.9	56.9
155°	33.5	36.8	40.2	43.5	46.9	50.2	50.2	50.2	50.2	46.9	46.9
157.5°	26.8	30.1	33.5	36.8	40.2	43.5	43.5	43.5	43.5	43.5	40.2
160°	20.1	23.4	26.8	26.8	30.1	33.5	36.8	33.5	33.5	33.5	33.5
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-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	6084.8	6084.8	6084.8	6084.8	6084.8	6084.8	6084.8	6084.8	6084.8	6084.8	6084.8
2.5°	6071.4	6068.1	6078.1	6061.4	6011.2	6024.5	6017.8	6048.0	6054.7	6061.4	6091.5
5°	6071.4	6068.1	6074.7	6061.4	6007.8	6017.8	6011.2	6041.3	6048.0	6051.3	6081.4
7.5°	6058.0	6054.7	6064.7	6048.0	5991.1	6004.5	5994.4	6024.5	6027.9	6031.2	6058.0
10°	6031.2	6027.9	6034.6	6021.2	5964.3	5977.7	5964.3	5994.4	5994.4	6001.1	6021.2
12.5°	5991.1	5984.4	5997.8	5981.0	5917.4	5934.2	5927.5	5947.6	5950.9	5954.3	5974.3
15°	5934.2	5927.5	5937.5	5927.5	5870.6	5873.9	5863.9	5894.0	5897.4	5890.7	5910.7
17.5°	5850.5	5843.8	5863.9	5857.2	5800.3	5813.7	5810.3	5817.0	5827.1	5810.3	5837.1
20°	5746.7	5753.4	5760.1	5763.5	5720.0	5720.0	5716.6	5730.0	5740.1	5726.7	5746.7
22.5°	5592.8	5609.5	5629.6	5636.3	5606.2	5602.8	5622.9	5616.2	5626.3	5619.6	5632.9
25°	5398.7	5432.1	5452.2	5472.3	5455.6	5462.3	5492.4	5499.1	5499.1	5495.7	5509.1
27.5°	5157.7	5201.2	5238.0	5281.5	5264.8	5278.2	5328.4	5335.1	5348.5	5335.1	5361.8
30°	4869.8	4910.0	4980.3	5043.9	5050.6	5070.7	5140.9	5147.6	5184.5	5171.1	5181.1
32.5°	4582.0	4602.1	4682.4	4746.0	4786.2	4836.4	4913.3	4926.7	4976.9	4987.0	4987.0
35°	4220.5	4277.4	4351.1	4441.4	4491.6	4545.2	4648.9	4669.0	4742.7	4766.1	4792.9
37.5°	3916.0	3969.5	4016.4	4110.1	4200.4	4260.7	4344.4	4394.6	4471.5	4515.1	4548.5
40°	3591.3	3634.8	3685.0	3778.7	3855.7	3946.1	4029.8	4090.0	4187.1	4237.3	4280.8
42.5°	3283.4	3316.8	3370.4	3437.3	3517.7	3618.1	3698.4	3768.7	3872.4	3942.7	3992.9
45°	3008.9	3029.0	3075.9	3126.1	3196.4	3300.1	3377.1	3467.5	3551.1	3624.8	3685.0
47.5°	2751.2	2778.0	2801.4	2834.9	2898.5	2962.1	3052.4	3139.5	3223.1	3303.5	3363.7
50°	2513.6	2513.6	2550.4	2573.8	2617.3	2674.2	2744.5	2804.8	2908.5	2965.4	3042.4
52.5°	2282.6	2296.0	2316.1	2329.5	2363.0	2399.8	2456.7	2506.9	2593.9	2647.5	2721.1
55°	2078.5	2091.9	2101.9	2108.6	2128.7	2172.2	2192.3	2232.4	2292.7	2336.2	2399.8
57.5°	1884.3	1891.0	1901.1	1904.4	1907.8	1934.5	1951.3	1961.3	2021.6	2065.1	2118.6
60°	1707.0	1707.0	1717.0	1713.6	1710.3	1723.7	1720.3	1730.4	1767.2	1794.0	1817.4
62.5°	1539.6	1539.6	1543.0	1536.3	1532.9	1532.9	1519.5	1529.6	1539.6	1543.0	1559.7
65°	1385.6	1402.4	1389.0	1392.3	1372.3	1365.6	1358.9	1338.8	1335.4	1322.1	1328.7
67.5°	1248.4	1261.8	1248.4	1248.4	1231.7	1218.3	1201.6	1168.1	1158.1	1131.3	1124.6
70°	1138.0	1127.9	1134.6	1124.6	1104.5	1087.8	1064.3	1037.6	1004.1	970.6	947.2
72.5°	1030.9	1030.9	1024.2	1014.1	1004.1	970.6	943.8	913.7	873.6	830.0	796.6
75°	927.1	930.5	930.5	920.4	903.7	873.6	843.4	799.9	756.4	706.2	662.7
77.5°	853.5	853.5	853.5	836.7	820.0	793.2	756.4	709.6	662.7	602.5	552.2
80°	783.2	779.8	779.8	759.8	743.0	712.9	676.1	629.2	579.0	515.4	458.5
82.5°	726.3	722.9	716.3	699.5	676.1	646.0	609.1	558.9	505.4	448.5	378.2
85°	666.0	662.7	656.0	639.3	615.8	589.1	548.9	498.7	445.1	381.6	314.6
87.5°	612.5	609.1	599.1	589.1	562.3	532.2	492.0	445.1	388.2	328.0	261.1
90°	575.7	569.0	562.3	548.9	525.5	492.0	451.8	401.6	344.7	284.5	217.6
92.5°	532.2	528.8	518.8	505.4	485.3	451.8	411.7	364.8	307.9	251.0	187.4
95°	488.7	485.3	478.6	465.2	445.1	415.0	378.2	331.3	277.8	220.9	164.0
97.5°	448.5	448.5	438.5	428.4	405.0	381.6	344.7	301.2	251.0	200.8	147.3
100°	415.0	415.0	405.0	391.6	374.9	351.4	314.6	274.5	227.6	180.7	127.2
102.5°	384.9	381.6	374.9	361.5	344.7	321.3	287.8	251.0	207.5	160.7	113.8
105°	358.1	354.8	348.1	334.7	321.3	294.5	267.8	230.9	187.4	143.9	100.4
107.5°	331.3	328.0	324.7	311.3	294.5	271.1	244.3	207.5	170.7	130.5	90.4
110°	307.9	304.6	297.9	284.5	267.8	247.7	220.9	190.8	154.0	117.1	80.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	287.8	284.5	277.8	264.4	251.0	227.6	204.2	170.7	140.6	107.1	70.3
115°	267.8	264.4	257.7	244.3	227.6	207.5	184.1	157.3	123.8	93.7	63.6
117.5°	247.7	244.3	237.6	227.6	210.9	190.8	167.3	140.6	110.4	87.0	56.9
120°	230.9	224.2	217.6	207.5	190.8	174.0	150.6	127.2	100.4	77.0	50.2
122.5°	214.2	207.5	200.8	190.8	174.0	157.3	133.9	113.8	93.7	70.3	46.9
125°	194.1	190.8	184.1	174.0	157.3	140.6	123.8	103.8	83.7	63.6	40.2
127.5°	177.4	174.0	167.3	154.0	140.6	127.2	110.4	93.7	73.6	53.6	36.8
130°	164.0	157.3	150.6	140.6	130.5	117.1	100.4	83.7	66.9	46.9	33.5
132.5°	147.3	140.6	133.9	127.2	117.1	103.8	90.4	73.6	60.2	43.5	30.1
135°	133.9	127.2	120.5	113.8	103.8	93.7	80.3	66.9	53.6	40.2	26.8
137.5°	117.1	113.8	110.4	103.8	93.7	83.7	73.6	56.9	46.9	36.8	23.4
140°	107.1	103.8	100.4	90.4	83.7	73.6	63.6	50.2	40.2	30.1	20.1
142.5°	97.1	93.7	87.0	80.3	73.6	66.9	53.6	46.9	36.8	26.8	20.1
145°	83.7	80.3	77.0	70.3	63.6	53.6	46.9	40.2	33.5	23.4	16.7
147.5°	77.0	73.6	66.9	60.2	53.6	46.9	43.5	36.8	26.8	20.1	13.4
150°	63.6	60.2	56.9	50.2	46.9	43.5	36.8	30.1	23.4	16.7	13.4
152.5°	53.6	50.2	46.9	46.9	40.2	36.8	30.1	26.8	20.1	16.7	10.0
155°	46.9	46.9	43.5	40.2	33.5	30.1	26.8	20.1	16.7	13.4	10.0
157.5°	40.2	36.8	33.5	33.5	30.1	26.8	20.1	16.7	13.4	13.4	10.0
160°	33.5	30.1	30.1	26.8	23.4	20.1	16.7	16.7	13.4	10.0	10.0
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-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	6084.8	6084.8	6084.8	6084.8	6084.8	6084.8	6084.8	6084.8	6084.8	6084.8	6084.8
2.5°	6094.8	6058.0	6091.5	6135.0	6135.0	6128.3	6121.6	6135.0	6168.5	6155.1	6114.9
5°	6084.8	6048.0	6078.1	6121.6	6121.6	6111.6	6104.9	6114.9	6151.7	6135.0	6098.2
7.5°	6064.7	6031.2	6051.3	6091.5	6091.5	6081.4	6074.7	6088.1	6118.3	6101.5	6061.4
10°	6027.9	5991.1	6014.5	6051.3	6048.0	6041.3	6031.2	6048.0	6074.7	6051.3	6004.5
12.5°	5981.0	5944.2	5964.3	5997.8	5994.4	5981.0	5974.3	5984.4	6007.8	5994.4	5944.2
15°	5917.4	5880.6	5897.4	5930.8	5920.8	5910.7	5897.4	5900.7	5930.8	5907.4	5853.8
17.5°	5840.5	5800.3	5813.7	5843.8	5833.8	5823.7	5807.0	5810.3	5843.8	5810.3	5753.4
20°	5746.7	5703.2	5713.3	5750.1	5733.4	5716.6	5699.9	5699.9	5733.4	5696.5	5632.9
22.5°	5646.3	5602.8	5609.5	5636.3	5622.9	5592.8	5576.0	5586.1	5602.8	5556.0	5489.0
25°	5522.5	5465.6	5475.6	5502.4	5492.4	5452.2	5435.5	5442.2	5435.5	5398.7	5328.4
27.5°	5378.6	5318.3	5325.0	5341.8	5328.4	5291.6	5271.5	5274.8	5261.4	5214.6	5134.2
30°	5197.8	5167.7	5164.4	5174.4	5154.3	5117.5	5094.1	5087.4	5084.0	5017.1	4920.0
32.5°	5013.8	4987.0	4970.2	4983.6	4960.2	4923.4	4883.2	4883.2	4849.8	4786.2	4702.5
35°	4826.3	4782.8	4766.1	4776.1	4749.3	4702.5	4669.0	4652.3	4602.1	4521.8	4431.4
37.5°	4585.3	4555.2	4535.1	4545.2	4515.1	4481.6	4418.0	4401.3	4347.7	4237.3	4123.5
40°	4324.3	4300.9	4280.8	4290.8	4257.3	4207.1	4150.2	4123.5	4063.2	3939.4	3849.0
42.5°	4043.1	4033.1	4009.7	4046.5	3979.5	3929.3	3872.4	3828.9	3768.7	3634.8	3531.1
45°	3745.3	3768.7	3715.1	3725.2	3681.7	3638.2	3577.9	3514.3	3454.1	3326.9	3209.7
47.5°	3430.6	3447.4	3410.6	3417.3	3370.4	3330.2	3276.7	3196.4	3129.4	3019.0	2915.2
50°	3106.0	3099.3	3099.3	3092.6	3055.8	3005.6	2952.0	2878.4	2811.5	2711.0	2624.0
52.5°	2761.2	2774.6	2781.3	2798.1	2751.2	2721.1	2637.4	2573.8	2523.6	2419.9	2346.2
55°	2429.9	2476.8	2463.4	2470.1	2416.5	2393.1	2326.1	2275.9	2202.3	2142.1	2095.2
57.5°	2128.7	2138.7	2145.4	2155.4	2132.0	2085.2	2031.6	1991.4	1934.5	1884.3	1850.9
60°	1837.5	1837.5	1840.8	1857.6	1834.1	1794.0	1753.8	1723.7	1683.5	1653.4	1633.3
62.5°	1563.0	1586.5	1589.8	1576.4	1546.3	1526.2	1499.4	1482.7	1455.9	1445.9	1439.2
65°	1308.7	1308.7	1308.7	1315.4	1298.6	1285.2	1268.5	1265.2	1275.2	1261.8	1268.5
67.5°	1094.5	1084.4	1077.7	1081.1	1074.4	1067.7	1064.3	1074.4	1094.5	1094.5	1111.2
70°	910.4	890.3	876.9	876.9	876.9	880.3	890.3	910.4	943.8	957.2	980.7
72.5°	759.8	716.3	696.2	696.2	699.5	712.9	743.0	779.8	810.0	836.7	866.9
75°	615.8	572.3	542.2	538.9	545.6	565.6	609.1	642.6	692.8	729.6	766.5
77.5°	498.7	445.1	408.3	405.0	415.0	445.1	498.7	542.2	599.1	639.3	679.4
80°	398.3	338.0	307.9	287.8	304.6	341.4	401.6	455.2	508.7	562.3	612.5
82.5°	318.0	261.1	214.2	194.1	214.2	264.4	321.3	384.9	438.5	495.4	545.6
85°	251.0	190.8	137.2	117.1	140.6	194.1	257.7	321.3	381.6	438.5	488.7
87.5°	197.5	137.2	83.7	56.9	87.0	143.9	204.2	267.8	331.3	388.2	438.5
90°	154.0	97.1	46.9	6.7	50.2	103.8	164.0	224.2	287.8	344.7	394.9
92.5°	130.5	73.6	26.8	0.0	30.1	77.0	133.9	194.1	251.0	307.9	358.1
95°	110.4	60.2	20.1	0.0	20.1	60.2	110.4	164.0	220.9	277.8	328.0
97.5°	93.7	46.9	13.4	0.0	13.4	46.9	90.4	143.9	194.1	247.7	294.5
100°	80.3	40.2	10.0	0.0	10.0	36.8	77.0	123.8	174.0	224.2	267.8
102.5°	70.3	33.5	6.7	0.0	6.7	30.1	63.6	107.1	150.6	197.5	241.0
105°	60.2	26.8	6.7	0.0	3.3	23.4	53.6	93.7	133.9	177.4	217.6
107.5°	53.6	23.4	6.7	0.0	3.3	20.1	46.9	80.3	120.5	157.3	194.1
110°	46.9	20.1	6.7	0.0	3.3	13.4	40.2	70.3	103.8	140.6	177.4



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	40.2	16.7	3.3	0.0	0.0	10.0	33.5	60.2	90.4	127.2	157.3
115°	36.8	16.7	3.3	0.0	0.0	6.7	26.8	53.6	80.3	113.8	140.6
117.5°	33.5	13.4	3.3	0.0	3.3	6.7	23.4	46.9	70.3	97.1	127.2
120°	30.1	13.4	3.3	0.0	3.3	3.3	16.7	40.2	60.2	87.0	110.4
122.5°	26.8	13.4	3.3	0.0	3.3	3.3	13.4	33.5	53.6	77.0	97.1
125°	23.4	10.0	6.7	3.3	3.3	3.3	10.0	26.8	46.9	63.6	87.0
127.5°	23.4	10.0	6.7	3.3	3.3	3.3	6.7	23.4	36.8	56.9	77.0
130°	20.1	10.0	6.7	3.3	3.3	3.3	3.3	16.7	33.5	46.9	63.6
132.5°	16.7	10.0	6.7	3.3	3.3	3.3	3.3	10.0	23.4	40.2	53.6
135°	16.7	10.0	6.7	3.3	3.3	3.3	3.3	6.7	16.7	30.1	43.5
137.5°	13.4	6.7	6.7	3.3	3.3	3.3	3.3	3.3	13.4	23.4	33.5
140°	13.4	6.7	6.7	3.3	3.3	3.3	3.3	3.3	10.0	16.7	26.8
142.5°	10.0	6.7	6.7	3.3	3.3	3.3	3.3	3.3	6.7	13.4	20.1
145°	10.0	6.7	6.7	3.3	3.3	3.3	3.3	3.3	3.3	6.7	13.4
147.5°	10.0	10.0	6.7	3.3	3.3	3.3	3.3	3.3	3.3	6.7	10.0
150°	10.0	6.7	6.7	3.3	3.3	3.3	3.3	3.3	3.3	3.3	6.7
152.5°	10.0	6.7	6.7	3.3	3.3	3.3	3.3	3.3	3.3	3.3	6.7
155°	10.0	6.7	6.7	3.3	3.3	3.3	3.3	3.3	3.3	6.7	6.7
157.5°	10.0	6.7	6.7	3.3	3.3	3.3	3.3	3.3	3.3	3.3	6.7
160°	10.0	6.7	6.7	3.3	6.7	3.3	6.7	6.7	6.7	6.7	6.7
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-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	6084.8	6084.8	6084.8	6084.8	6084.8	6084.8	6084.8	6084.8	6084.8	6084.8	6084.8
2.5°	6101.5	6037.9	6071.4	6061.4	6074.7	6101.5	6098.2	6091.5	6091.5	6081.4	6068.1
5°	6081.4	6021.2	6051.3	6034.6	6051.3	6074.7	6071.4	6061.4	6068.1	6051.3	6034.6
7.5°	6041.3	5987.7	6014.5	6001.1	6014.5	6037.9	6027.9	6024.5	6031.2	6004.5	5994.4
10°	5994.4	5934.2	5964.3	5947.6	5964.3	5981.0	5974.3	5961.0	5974.3	5947.6	5937.5
12.5°	5920.8	5870.6	5890.7	5884.0	5894.0	5910.7	5897.4	5887.3	5894.0	5870.6	5850.5
15°	5840.5	5790.3	5807.0	5796.9	5803.6	5823.7	5800.3	5796.9	5790.3	5766.8	5760.1
17.5°	5736.7	5689.8	5706.6	5689.8	5699.9	5693.2	5689.8	5673.1	5673.1	5646.3	5626.3
20°	5609.5	5569.4	5559.3	5545.9	5559.3	5545.9	5525.8	5512.5	5509.1	5482.3	5465.6
22.5°	5462.3	5415.4	5422.1	5385.3	5388.6	5368.5	5335.1	5321.7	5308.3	5278.2	5254.7
25°	5284.9	5238.0	5204.5	5181.1	5151.0	5147.6	5104.1	5070.7	5067.3	5030.5	5027.1
27.5°	5084.0	5030.5	5003.7	4946.8	4910.0	4879.9	4843.1	4809.6	4792.9	4752.7	4725.9
30°	4853.1	4792.9	4725.9	4685.8	4628.9	4605.4	4541.8	4501.7	4488.3	4444.8	4424.7
32.5°	4592.0	4528.4	4474.9	4397.9	4334.3	4300.9	4237.3	4197.1	4180.4	4133.5	4106.7
35°	4307.5	4237.3	4173.7	4100.0	4049.8	3992.9	3916.0	3875.8	3839.0	3822.2	3802.2
37.5°	4009.7	3932.7	3859.1	3785.4	3741.9	3675.0	3608.0	3581.3	3537.7	3521.0	3500.9
40°	3701.7	3624.8	3554.5	3484.2	3434.0	3373.7	3313.5	3303.5	3256.6	3239.9	3226.5
42.5°	3397.2	3316.8	3236.5	3186.3	3149.5	3089.3	3049.1	3039.0	2998.9	2988.8	2988.8
45°	3122.7	3022.3	2955.4	2911.9	2881.7	2831.5	2798.1	2791.4	2757.9	2751.2	2751.2
47.5°	2828.2	2734.5	2684.3	2657.5	2630.7	2593.9	2573.8	2573.8	2540.3	2533.7	2530.3
50°	2553.7	2466.7	2429.9	2403.1	2399.8	2373.0	2356.3	2349.6	2349.6	2326.1	2329.5
52.5°	2292.7	2249.2	2219.0	2202.3	2182.2	2165.5	2152.1	2152.1	2142.1	2125.3	2132.0
55°	2051.7	2001.5	2004.8	1991.4	1981.4	1971.4	1974.7	1954.6	1951.3	1937.9	1947.9
57.5°	1810.7	1810.7	1804.0	1794.0	1777.2	1783.9	1783.9	1783.9	1767.2	1757.2	1767.2
60°	1606.5	1616.6	1599.9	1609.9	1603.2	1606.5	1599.9	1599.9	1589.8	1586.5	1589.8
62.5°	1425.8	1442.5	1435.8	1449.2	1442.5	1445.9	1452.6	1439.2	1432.5	1425.8	1432.5
65°	1265.2	1285.2	1281.9	1291.9	1295.3	1298.6	1302.0	1295.3	1288.6	1281.9	1278.5
67.5°	1124.6	1144.7	1158.1	1161.4	1164.7	1174.8	1171.4	1164.7	1158.1	1148.0	1144.7
70°	997.4	1024.2	1040.9	1047.6	1061.0	1054.3	1054.3	1050.9	1044.3	1034.2	1030.9
72.5°	890.3	920.4	937.2	943.8	957.2	957.2	953.9	950.5	943.8	933.8	930.5
75°	796.6	823.4	846.8	860.2	870.2	870.2	866.9	863.5	856.8	850.1	846.8
77.5°	722.9	746.4	766.5	783.2	789.9	793.2	789.9	783.2	783.2	779.8	776.5
80°	649.3	676.1	696.2	712.9	722.9	722.9	719.6	722.9	716.3	712.9	709.6
82.5°	585.7	615.8	639.3	656.0	662.7	666.0	662.7	666.0	659.4	659.4	659.4
85°	528.8	558.9	585.7	599.1	609.1	612.5	612.5	612.5	609.1	609.1	609.1
87.5°	482.0	512.1	538.9	552.2	562.3	565.6	565.6	569.0	562.3	562.3	562.3
90°	438.5	468.6	495.4	508.7	518.8	525.5	525.5	528.8	525.5	522.1	522.1
92.5°	398.3	431.8	458.5	471.9	482.0	492.0	492.0	495.4	488.7	488.7	488.7
95°	364.8	398.3	421.7	438.5	448.5	455.2	458.5	458.5	455.2	455.2	455.2
97.5°	334.7	364.8	388.2	405.0	415.0	418.4	421.7	425.1	421.7	421.7	421.7
100°	304.6	334.7	358.1	371.5	384.9	388.2	391.6	394.9	394.9	391.6	391.6
102.5°	277.8	307.9	328.0	344.7	354.8	361.5	364.8	364.8	364.8	364.8	364.8
105°	251.0	281.1	301.2	318.0	328.0	334.7	338.0	341.4	341.4	338.0	338.0
107.5°	227.6	254.4	277.8	291.2	304.6	311.3	314.6	314.6	318.0	314.6	314.6
110°	204.2	234.3	254.4	267.8	281.1	287.8	291.2	294.5	294.5	294.5	294.5



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	187.4	210.9	230.9	244.3	257.7	264.4	267.8	271.1	274.5	271.1	271.1
115°	167.3	190.8	210.9	224.2	234.3	241.0	247.7	251.0	251.0	254.4	251.0
117.5°	150.6	170.7	190.8	204.2	214.2	224.2	227.6	230.9	234.3	230.9	230.9
120°	133.9	154.0	170.7	184.1	194.1	204.2	207.5	210.9	214.2	210.9	210.9
122.5°	120.5	137.2	154.0	167.3	177.4	184.1	190.8	190.8	194.1	194.1	194.1
125°	107.1	123.8	137.2	150.6	160.7	167.3	170.7	174.0	174.0	177.4	177.4
127.5°	93.7	107.1	123.8	133.9	143.9	150.6	154.0	157.3	157.3	160.7	160.7
130°	80.3	93.7	107.1	117.1	127.2	133.9	137.2	140.6	143.9	143.9	143.9
132.5°	70.3	83.7	93.7	103.8	110.4	117.1	123.8	127.2	127.2	127.2	127.2
135°	56.9	70.3	80.3	90.4	97.1	103.8	107.1	113.8	113.8	113.8	113.8
137.5°	46.9	60.2	70.3	77.0	83.7	90.4	93.7	97.1	100.4	100.4	100.4
140°	36.8	46.9	56.9	66.9	73.6	77.0	83.7	83.7	87.0	87.0	87.0
142.5°	26.8	36.8	43.5	53.6	60.2	66.9	70.3	73.6	73.6	73.6	73.6
145°	20.1	26.8	33.5	40.2	50.2	53.6	56.9	60.2	63.6	63.6	63.6
147.5°	13.4	20.1	23.4	30.1	36.8	43.5	46.9	50.2	53.6	53.6	53.6
150°	10.0	13.4	20.1	23.4	26.8	33.5	40.2	40.2	43.5	43.5	40.2
152.5°	6.7	10.0	13.4	16.7	20.1	23.4	30.1	30.1	33.5	33.5	33.5
155°	6.7	6.7	6.7	10.0	13.4	16.7	20.1	23.4	23.4	23.4	23.4
157.5°	6.7	6.7	6.7	6.7	6.7	10.0	13.4	16.7	16.7	16.7	16.7
160°	6.7	6.7	3.3	3.3	6.7	6.7	6.7	6.7	10.0	10.0	10.0
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-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	6084.8	6084.8	6084.8	6084.8	6084.8	6084.8	6084.8	6084.8	6084.8	6084.8	6084.8
2.5°	6078.1	6084.8	6084.8	6078.1	6074.7	6088.1	6071.4	6007.8	6027.9	6034.6	6054.7
5°	6048.0	6054.7	6054.7	6054.7	6048.0	6061.4	6044.6	5981.0	6004.5	6014.5	6027.9
7.5°	6004.5	6007.8	6014.5	6011.2	6004.5	6024.5	6007.8	5944.2	5961.0	5977.7	5994.4
10°	5947.6	5947.6	5950.9	5957.6	5950.9	5967.6	5950.9	5894.0	5910.7	5920.8	5940.9
12.5°	5870.6	5877.3	5880.6	5877.3	5873.9	5887.3	5880.6	5827.1	5833.8	5853.8	5873.9
15°	5766.8	5766.8	5783.6	5776.9	5776.9	5790.3	5796.9	5736.7	5746.7	5776.9	5796.9
17.5°	5639.6	5643.0	5656.4	5663.1	5659.7	5683.2	5686.5	5639.6	5636.3	5673.1	5693.2
20°	5475.6	5482.3	5499.1	5512.5	5512.5	5539.2	5549.3	5519.2	5522.5	5562.7	5569.4
22.5°	5274.8	5274.8	5304.9	5325.0	5341.8	5358.5	5388.6	5361.8	5361.8	5415.4	5445.5
25°	5027.1	5050.6	5060.6	5100.8	5124.2	5171.1	5197.8	5201.2	5204.5	5254.7	5274.8
27.5°	4752.7	4759.4	4789.5	4836.4	4863.1	4906.7	4956.9	4966.9	4983.6	5050.6	5080.7
30°	4441.4	4461.5	4474.9	4541.8	4578.7	4635.6	4699.1	4722.6	4736.0	4826.3	4863.1
32.5°	4123.5	4130.2	4187.1	4223.9	4267.4	4327.6	4401.3	4444.8	4471.5	4565.3	4618.8
35°	3805.5	3818.9	3865.7	3912.6	3956.1	4016.4	4093.3	4153.6	4200.4	4284.1	4354.4
37.5°	3514.3	3547.8	3557.8	3604.7	3638.2	3698.4	3752.0	3839.0	3885.8	3972.9	4063.2
40°	3253.3	3263.3	3270.0	3316.8	3340.3	3397.2	3474.2	3531.1	3594.6	3658.2	3765.3
42.5°	2995.5	3002.2	3012.3	3039.0	3065.8	3106.0	3162.9	3219.8	3286.7	3380.4	3450.7
45°	2757.9	2764.6	2771.3	2788.0	2811.5	2848.3	2885.1	2925.3	2992.2	3072.5	3146.2
47.5°	2537.0	2550.4	2550.4	2553.7	2570.5	2600.6	2627.4	2677.6	2714.4	2757.9	2841.6
50°	2326.1	2336.2	2339.5	2339.5	2349.6	2369.7	2376.3	2409.8	2443.3	2483.5	2543.7
52.5°	2128.7	2128.7	2125.3	2138.7	2138.7	2152.1	2155.4	2175.5	2199.0	2242.5	2269.2
55°	1941.2	1941.2	1951.3	1944.6	1944.6	1951.3	1947.9	1951.3	1971.4	1998.1	2021.6
57.5°	1760.5	1757.2	1767.2	1760.5	1757.2	1763.9	1770.5	1757.2	1760.5	1787.3	1787.3
60°	1579.8	1583.1	1593.2	1586.5	1586.5	1586.5	1579.8	1573.1	1566.4	1583.1	1589.8
62.5°	1435.8	1425.8	1435.8	1425.8	1432.5	1429.2	1422.5	1409.1	1412.4	1405.7	1399.0
65°	1285.2	1285.2	1288.6	1278.5	1285.2	1285.2	1275.2	1271.8	1251.8	1245.1	1228.3
67.5°	1154.7	1154.7	1158.1	1151.4	1151.4	1154.7	1144.7	1134.6	1114.5	1104.5	1081.1
70°	1040.9	1040.9	1040.9	1037.6	1037.6	1037.6	1030.9	1017.5	997.4	980.7	950.5
72.5°	937.2	940.5	937.2	937.2	947.2	937.2	927.1	913.7	897.0	863.5	836.7
75°	853.5	856.8	853.5	853.5	853.5	850.1	846.8	826.7	806.6	779.8	739.7
77.5°	779.8	779.8	783.2	779.8	779.8	776.5	766.5	749.7	726.3	702.9	656.0
80°	709.6	712.9	716.3	719.6	712.9	709.6	699.5	686.1	656.0	629.2	582.4
82.5°	659.4	656.0	659.4	662.7	656.0	652.7	642.6	625.9	602.5	565.6	518.8
85°	609.1	605.8	605.8	609.1	605.8	599.1	589.1	572.3	548.9	512.1	465.2
87.5°	558.9	562.3	565.6	562.3	558.9	552.2	542.2	525.5	498.7	468.6	418.4
90°	522.1	522.1	522.1	522.1	518.8	512.1	502.0	482.0	458.5	421.7	378.2
92.5°	488.7	488.7	488.7	488.7	485.3	475.3	465.2	448.5	421.7	384.9	344.7
95°	455.2	458.5	455.2	455.2	448.5	445.1	428.4	411.7	388.2	351.4	307.9
97.5°	418.4	421.7	418.4	418.4	415.0	408.3	398.3	378.2	354.8	321.3	281.1
100°	391.6	391.6	388.2	388.2	384.9	378.2	364.8	348.1	324.7	291.2	251.0
102.5°	361.5	364.8	361.5	361.5	354.8	348.1	338.0	321.3	297.9	264.4	227.6
105°	338.0	338.0	334.7	334.7	328.0	321.3	311.3	291.2	271.1	241.0	204.2
107.5°	314.6	314.6	311.3	311.3	304.6	297.9	284.5	267.8	247.7	217.6	184.1
110°	291.2	291.2	291.2	287.8	281.1	271.1	261.1	244.3	224.2	197.5	164.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	274.5	271.1	267.8	264.4	257.7	251.0	237.6	220.9	200.8	177.4	147.3
115°	251.0	251.0	247.7	244.3	237.6	227.6	217.6	204.2	184.1	157.3	130.5
117.5°	230.9	230.9	227.6	224.2	217.6	207.5	197.5	184.1	164.0	140.6	117.1
120°	210.9	210.9	207.5	204.2	197.5	187.4	180.7	164.0	147.3	123.8	103.8
122.5°	194.1	190.8	190.8	184.1	180.7	170.7	160.7	147.3	130.5	110.4	90.4
125°	174.0	174.0	170.7	167.3	164.0	154.0	143.9	130.5	113.8	97.1	80.3
127.5°	157.3	157.3	154.0	150.6	147.3	137.2	127.2	117.1	100.4	83.7	66.9
130°	140.6	140.6	137.2	133.9	130.5	120.5	113.8	100.4	87.0	73.6	56.9
132.5°	127.2	127.2	123.8	120.5	113.8	107.1	100.4	87.0	77.0	63.6	50.2
135°	113.8	110.4	110.4	107.1	100.4	93.7	87.0	77.0	63.6	53.6	40.2
137.5°	100.4	97.1	93.7	90.4	87.0	80.3	73.6	66.9	56.9	43.5	33.5
140°	87.0	83.7	83.7	80.3	73.6	70.3	63.6	53.6	46.9	36.8	26.8
142.5°	73.6	73.6	70.3	66.9	63.6	60.2	53.6	46.9	36.8	30.1	20.1
145°	63.6	60.2	60.2	56.9	53.6	46.9	43.5	36.8	30.1	23.4	16.7
147.5°	50.2	50.2	50.2	46.9	43.5	40.2	36.8	30.1	23.4	16.7	10.0
150°	40.2	40.2	40.2	36.8	33.5	30.1	26.8	23.4	16.7	10.0	6.7
152.5°	33.5	33.5	30.1	30.1	26.8	23.4	20.1	16.7	10.0	6.7	6.7
155°	23.4	23.4	23.4	20.1	20.1	16.7	13.4	10.0	6.7	6.7	6.7
157.5°	16.7	16.7	16.7	13.4	13.4	10.0	10.0	6.7	6.7	6.7	6.7
160°	10.0	10.0	10.0	10.0	6.7	6.7	6.7	6.7	6.7	6.7	6.7
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-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	6084.8	6084.8	6084.8	6084.8	6084.8	6084.8	6084.8
2.5°	6044.6	6041.3	6068.1	6068.1	6037.9	6084.8	6135.0
5°	6024.5	6021.2	6048.0	6048.0	6021.2	6068.1	6121.6
7.5°	5984.4	5987.7	6014.5	6021.2	5987.7	6031.2	6088.1
10°	5940.9	5937.5	5967.6	5974.3	5947.6	5987.7	6041.3
12.5°	5870.6	5870.6	5900.7	5910.7	5884.0	5930.8	5981.0
15°	5796.9	5796.9	5817.0	5833.8	5810.3	5853.8	5904.1
17.5°	5703.2	5699.9	5720.0	5740.1	5716.6	5763.5	5817.0
20°	5582.7	5582.7	5606.2	5629.6	5612.9	5656.4	5716.6
22.5°	5455.6	5442.2	5482.3	5499.1	5489.0	5532.5	5592.8
25°	5294.9	5291.6	5331.7	5355.1	5341.8	5388.6	5442.2
27.5°	5120.9	5117.5	5157.7	5187.8	5181.1	5224.6	5284.9
30°	4910.0	4926.7	4963.6	5013.8	4997.0	5043.9	5107.5
32.5°	4689.1	4705.8	4749.3	4802.9	4806.2	4843.1	4906.7
35°	4424.7	4468.2	4498.3	4568.6	4582.0	4618.8	4685.8
37.5°	4146.9	4197.1	4260.7	4314.2	4341.0	4371.1	4448.1
40°	3835.6	3909.3	3979.5	4043.1	4076.6	4106.7	4180.4
42.5°	3554.5	3611.4	3678.3	3741.9	3802.2	3828.9	3905.9
45°	3236.5	3303.5	3363.7	3440.7	3500.9	3531.1	3608.0
47.5°	2925.3	2992.2	3072.5	3126.1	3189.7	3219.8	3293.4
50°	2627.4	2687.6	2754.6	2818.1	2871.7	2898.5	2962.1
52.5°	2332.8	2396.4	2460.0	2500.2	2557.1	2577.2	2630.7
55°	2071.8	2115.3	2172.2	2195.6	2252.5	2265.9	2302.7
57.5°	1820.8	1850.9	1871.0	1911.1	1951.3	1981.4	2024.9
60°	1593.2	1606.5	1619.9	1643.4	1676.8	1686.9	1703.6
62.5°	1389.0	1385.6	1412.4	1419.1	1422.5	1455.9	1439.2
65°	1208.3	1211.6	1188.2	1178.1	1191.5	1201.6	1194.9
67.5°	1057.6	1037.6	1017.5	994.0	974.0	984.0	974.0
70°	910.4	893.6	860.2	826.7	813.3	793.2	783.2
72.5°	793.2	753.1	719.6	676.1	652.7	629.2	612.5
75°	702.9	646.0	599.1	552.2	518.8	485.3	478.6
77.5°	609.1	555.6	502.0	451.8	401.6	364.8	351.4
80°	535.5	485.3	421.7	361.5	307.9	261.1	244.3
82.5°	468.6	415.0	351.4	287.8	227.6	177.4	157.3
85°	411.7	354.8	291.2	227.6	167.3	113.8	87.0
87.5°	368.2	304.6	241.0	180.7	117.1	63.6	33.5
90°	328.0	267.8	207.5	143.9	83.7	33.5	0.0
92.5°	291.2	234.3	174.0	117.1	63.6	20.1	3.3
95°	257.7	207.5	147.3	93.7	46.9	13.4	3.3
97.5°	230.9	180.7	127.2	77.0	36.8	10.0	3.3
100°	207.5	157.3	110.4	63.6	30.1	6.7	3.3
102.5°	184.1	140.6	93.7	53.6	23.4	3.3	3.3
105°	164.0	123.8	80.3	46.9	20.1	3.3	3.3
107.5°	147.3	110.4	70.3	40.2	13.4	3.3	3.3
110°	130.5	93.7	60.2	33.5	10.0	3.3	3.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	117.1	83.7	53.6	26.8	6.7	3.3	3.3
115°	103.8	73.6	46.9	23.4	6.7	3.3	3.3
117.5°	90.4	63.6	40.2	16.7	3.3	3.3	3.3
120°	80.3	56.9	33.5	13.4	3.3	3.3	3.3
122.5°	70.3	46.9	26.8	10.0	3.3	3.3	3.3
125°	60.2	40.2	23.4	6.7	3.3	3.3	3.3
127.5°	50.2	33.5	16.7	6.7	3.3	3.3	3.3
130°	43.5	26.8	13.4	3.3	3.3	3.3	3.3
132.5°	36.8	20.1	10.0	3.3	3.3	3.3	3.3
135°	30.1	16.7	6.7	3.3	3.3	3.3	3.3
137.5°	23.4	13.4	6.7	3.3	3.3	3.3	3.3
140°	16.7	10.0	3.3	3.3	3.3	3.3	3.3
142.5°	13.4	6.7	3.3	3.3	3.3	3.3	3.3
145°	10.0	6.7	3.3	3.3	3.3	3.3	3.3
147.5°	6.7	6.7	6.7	6.7	3.3	3.3	3.3
150°	6.7	6.7	3.3	3.3	6.7	3.3	3.3
152.5°	6.7	3.3	3.3	3.3	6.7	3.3	3.3
155°	6.7	6.7	6.7	6.7	6.7	6.7	3.3
157.5°	6.7	6.7	6.7	6.7	6.7	6.7	6.7
160°	6.7	6.7	6.7	6.7	6.7	6.7	6.7
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)