

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-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 (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-L940-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
WHITE REFLECTOR  
Light Source: -  
Ballast/Driver: -

**Summary**

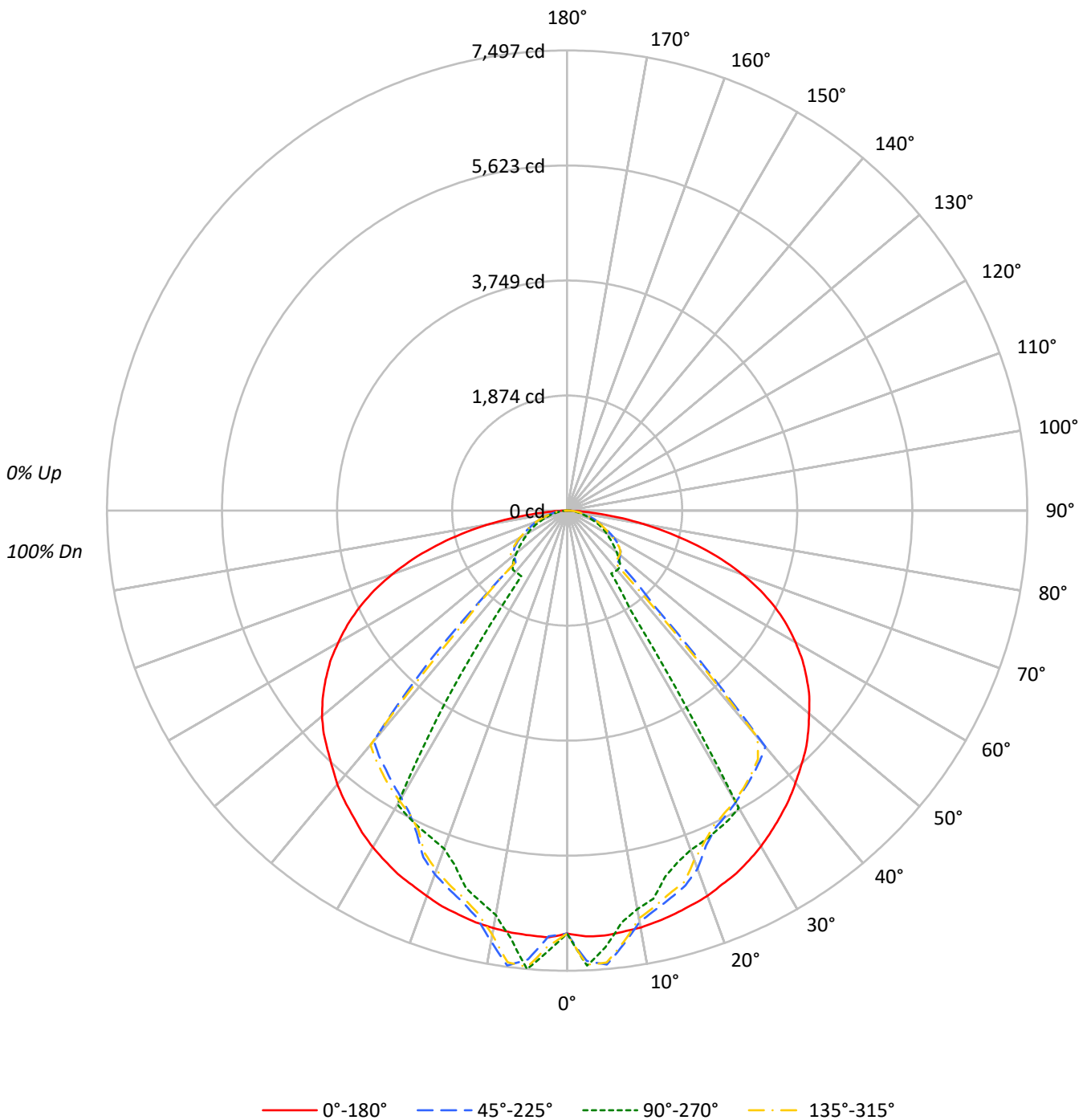
Lumens per Lamp: N/A  
Luminaire Lumens: 13799.0 lumens  
Efficiency: N/A  
Efficacy: 87.3 lumens/watt  
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	27843	27843	27843	27843
5°	28154	28052	28141	29441
10°	28220	25363	28259	25751
15°	28323	23466	28389	24210
20°	28571	22257	28571	22173
25°	28863	21831	28905	21627
30°	29205	21446	29278	21192
35°	29600	4885	29661	5094
40°	30137	5080	30318	5244
45°	30934	5051	31040	5235
50°	31747	4567	32175	4691
55°	32837	4055	33099	4113
60°	33818	3603	33893	3650
65°	34619	3145	34531	3094
70°	34413	2534	34306	2443
75°	32376	1951	32609	1869
80°	26934	1385	28013	1268
85°	15529	830	16399	636



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	678.0	4.9
10°-20°	1864.1	13.5
20°-30°	2761.1	20.0
30°-40°	2782.0	20.2
40°-50°	2173.2	15.7
50°-60°	1678.7	12.2
60°-70°	1127.0	8.2
70°-80°	574.9	4.2
80°-90°	159.9	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°	5303.2	38.4
0°-40°	8085.3	58.6
0°-60°	11937.1	86.5
0°-90°	13799.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13799.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	6891	6891	6891	6891	6891	
5°	6951	7144	6948	7497	6951	661
15°	6799	6174	6815	6370	6799	1923
25°	6521	5754	6531	5700	6521	3008
35°	6067	1251	6079	1304	6067	3802
45°	5498	1216	5517	1260	5498	4240
55°	4766	884	4803	897	4766	4256
65°	3742	594	3733	584	3742	3680
75°	2195	300	2211	287	2195	2295
85°	395	95	417	73	395	543
90°	0	0	0	0	0	



TEST NUMBER: P#

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**CANDELA DISTRIBUTION (FULL):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9
2.5°	6944.6	6969.8	6988.8	7001.4	7007.7	7007.7	7010.9	7014.0	7055.1	7074.0	7086.7
5°	6950.9	6976.1	7014.0	7064.6	7108.8	7146.7	7178.2	7222.5	7266.7	7314.0	7329.8
7.5°	6922.4	6954.0	7029.8	7121.4	7206.7	7266.7	7307.7	7336.2	7358.3	7361.4	7377.2
10°	6897.2	6954.0	7058.2	7178.2	7285.6	7358.3	7358.3	7342.5	7364.6	7279.3	7194.0
12.5°	6853.0	6916.1	7058.2	7216.1	7317.2	7345.6	7333.0	7269.8	7140.4	7036.1	6988.8
15°	6799.3	6884.5	7061.4	7238.3	7323.5	7333.0	7213.0	7051.9	6954.0	6890.9	6811.9
17.5°	6739.3	6853.0	7064.6	7241.4	7273.0	7228.8	7001.4	6900.3	6799.3	6650.9	6543.5
20°	6682.4	6793.0	7039.3	7197.2	7216.1	7017.2	6840.3	6733.0	6562.4	6432.9	6385.6
22.5°	6594.0	6723.5	7017.2	7137.2	7064.6	6834.0	6663.5	6493.0	6338.2	6300.3	6243.5
25°	6521.4	6657.2	6966.7	7064.6	6871.9	6666.6	6467.7	6268.7	6196.1	6142.4	6091.9
27.5°	6423.5	6590.9	6900.3	6931.9	6666.6	6486.6	6196.1	6107.7	6041.4	5981.3	5959.2
30°	6316.1	6521.4	6808.8	6748.8	6496.1	6230.8	6016.1	5934.0	5886.6	5823.4	5798.2
32.5°	6192.9	6417.2	6707.7	6537.2	6312.9	5981.3	5842.4	5779.2	5716.1	5668.7	5510.8
35°	6066.6	6325.6	6587.7	6335.0	6091.9	5791.9	5668.7	5611.9	5551.9	5378.2	5213.9
37.5°	5937.1	6224.5	6442.4	6117.1	5798.2	5596.1	5491.8	5428.7	5292.9	5071.8	4989.7
40°	5788.7	6101.4	6256.1	5892.9	5542.4	5397.1	5299.2	5236.0	4929.7	4831.8	4806.6
42.5°	5640.3	5981.3	6028.7	5675.0	5330.8	5185.5	5103.4	4895.0	4686.5	4636.0	4645.5
45°	5498.2	5851.9	5779.2	5365.5	5109.7	4989.7	4850.8	4563.4	4452.9	4478.1	4484.4
47.5°	5327.6	5697.1	5517.1	5056.0	4882.3	4762.3	4452.9	4279.2	4263.4	4298.1	4317.1
50°	5144.5	5523.4	5239.2	4775.0	4636.0	4493.9	4143.4	4054.9	4073.9	4108.6	4130.7
52.5°	4973.9	5327.6	4951.8	4512.9	4392.8	4067.6	3830.7	3846.5	3878.1	3919.1	3931.8
55°	4765.5	5090.8	4645.5	4247.6	4133.9	3707.6	3600.2	3638.1	3669.7	3704.4	3729.7
57.5°	4547.6	4819.2	4282.3	3950.7	3767.6	3388.6	3398.1	3423.3	3445.4	3486.5	1440.1
60°	4298.1	4509.7	3884.4	3676.0	3312.8	3135.9	3145.4	3189.6	3211.7	1793.8	991.6
62.5°	4039.1	4149.7	3524.4	3363.3	2895.9	2883.3	2927.5	2946.5	2005.4	947.4	928.5
65°	3742.3	3720.2	3170.7	2914.9	2611.7	2624.3	2671.7	2577.0	887.4	887.4	881.1
67.5°	3413.9	3281.2	2826.5	2412.8	2337.0	2365.4	2415.9	843.2	821.1	827.4	805.3
70°	3038.0	2851.7	2469.6	2043.3	2068.5	2096.9	814.8	764.2	754.8	739.0	694.8
72.5°	2640.1	2384.3	2021.2	1774.8	1790.6	1124.3	713.7	688.5	656.9	625.3	577.9
75°	2194.8	1863.2	1484.3	1484.3	1506.4	641.1	622.1	581.1	546.3	505.3	476.9
77.5°	1721.1	1433.8	1152.7	1196.9	584.2	536.9	502.1	457.9	429.5	404.2	388.4
80°	1260.1	1001.1	868.5	776.9	454.8	407.4	372.6	347.4	334.8	319.0	300.0
82.5°	827.4	603.2	603.2	366.3	319.0	281.1	271.6	252.6	240.0	230.5	221.1
85°	394.8	350.5	265.3	224.2	199.0	180.0	173.7	164.2	164.2	161.1	157.9
87.5°	145.3	157.9	116.8	113.7	107.4	104.2	107.4	107.4	110.5	107.4	104.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9
2.5°	7118.2	7143.5	7162.5	7194.0	7235.1	7269.8	7301.4	7345.6	7415.1	7434.1	7449.8
5°	7329.8	7339.3	7361.4	7386.7	7393.0	7408.8	7405.6	7424.6	7434.1	7456.2	7408.8
7.5°	7342.5	7291.9	7231.9	7178.2	7140.4	7105.6	7083.5	7118.2	7137.2	7153.0	7105.6
10°	7077.2	7017.2	6982.4	6950.9	6913.0	6859.3	6786.6	6802.4	6796.1	6796.1	6780.3
12.5°	6909.8	6824.5	6736.1	6657.2	6622.4	6619.3	6622.4	6657.2	6657.2	6654.0	6635.1
15°	6647.7	6565.6	6521.4	6502.4	6502.4	6493.0	6493.0	6530.8	6521.4	6521.4	6511.9
17.5°	6474.0	6417.2	6385.6	6363.5	6354.0	6369.8	6388.7	6404.5	6407.7	6395.1	6344.5
20°	6331.9	6278.2	6240.3	6246.6	6243.5	6252.9	6262.4	6208.7	6142.4	6054.0	6012.9
22.5°	6183.5	6142.4	6114.0	6114.0	6076.1	6016.1	5927.7	5908.7	5899.2	5858.2	5823.4
25°	6041.4	5994.0	5952.9	5826.6	5747.7	5757.1	5741.3	5709.8	5706.6	5703.4	5716.1
27.5°	5899.2	5776.1	5618.2	5599.2	5567.6	5564.5	5583.4	5599.2	5599.2	5611.9	5627.6
30°	5605.5	5463.4	5435.0	5400.3	5412.9	5457.1	5466.6	5488.7	5495.0	5517.1	5529.7
32.5°	5337.1	5273.9	5248.7	5264.5	5305.5	5343.4	5365.5	5375.0	5390.8	5409.7	5425.5
35°	5119.2	5100.3	5122.4	5157.1	5198.2	5229.7	5248.7	5267.6	5283.4	5299.2	5311.8
37.5°	4958.1	4970.8	5002.4	5046.6	5087.6	5112.9	5128.7	5150.8	5172.9	5191.8	5116.0
40°	4806.6	4838.1	4872.9	4920.2	4955.0	4980.2	4996.0	5024.5	4835.0	2188.5	1200.1
42.5°	4673.9	4708.7	4733.9	4771.8	4809.7	4828.7	4689.7	2093.8	1184.3	1178.0	1193.7
45°	4512.9	4541.3	4582.3	4610.8	4645.5	3050.7	1165.3	1178.0	1159.0	1171.6	1178.0
47.5°	4348.6	4392.8	4415.0	4212.8	1253.7	1159.0	1146.4	1159.0	1146.4	1162.2	1152.7
50°	4162.3	4216.0	3000.1	1133.7	1124.3	1117.9	1130.6	1124.3	1133.7	1146.4	1121.1
52.5°	3972.8	2460.1	1099.0	1092.7	1099.0	1092.7	1114.8	1099.0	1102.2	1089.5	1057.9
55°	1345.3	1064.3	1054.8	1051.6	1070.6	1070.6	1070.6	1045.3	1029.5	997.9	975.8
57.5°	1029.5	1029.5	1026.4	1029.5	1023.2	1016.9	988.5	966.4	944.3	900.0	887.4
60°	975.8	975.8	975.8	975.8	947.4	934.8	890.6	871.6	833.7	811.6	799.0
62.5°	931.6	925.3	896.9	887.4	855.8	821.1	795.8	776.9	739.0	726.4	716.9
65°	868.5	846.4	811.6	773.7	757.9	720.0	707.4	679.0	660.0	650.6	644.2
67.5°	764.2	732.7	704.2	679.0	650.6	637.9	622.1	600.0	587.4	581.1	574.8
70°	653.7	631.6	603.2	587.4	568.4	559.0	536.9	530.6	521.1	511.6	502.1
72.5°	546.3	533.7	521.1	499.0	492.7	486.3	464.2	451.6	439.0	426.3	420.0
75°	457.9	448.4	442.1	423.2	413.7	394.8	379.0	369.5	360.0	350.5	344.2
77.5°	375.8	369.5	350.5	337.9	331.6	315.8	309.5	312.6	306.3	293.7	287.4
80°	293.7	287.4	271.6	271.6	265.3	259.0	252.6	246.3	240.0	230.5	224.2
82.5°	224.2	217.9	211.6	205.3	199.0	195.8	192.6	186.3	180.0	173.7	170.5
85°	157.9	154.7	151.6	148.4	145.3	142.1	139.0	132.6	126.3	123.2	120.0
87.5°	107.4	104.2	101.1	97.9	94.7	91.6	88.4	85.3	79.0	75.8	72.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9
2.5°	7449.8	7465.6	7449.8	7415.1	7393.0	7383.5	7402.5	7402.5	7415.1	7430.9	7434.1
5°	7333.0	7295.1	7250.9	7206.7	7184.6	7171.9	7137.2	7143.5	7153.0	7159.3	7165.6
7.5°	7042.5	6991.9	6931.9	6875.1	6853.0	6834.0	6793.0	6793.0	6793.0	6796.1	6815.1
10°	6745.6	6723.5	6698.2	6660.3	6631.9	6622.4	6587.7	6597.2	6590.9	6600.3	6622.4
12.5°	6606.6	6581.4	6559.3	6521.4	6489.8	6477.2	6461.4	6470.8	6467.7	6483.5	6502.4
15°	6480.3	6467.7	6442.4	6414.0	6385.6	6360.3	6303.5	6284.5	6271.9	6256.1	6278.2
17.5°	6271.9	6183.5	6123.5	6079.2	6047.7	6025.6	6009.8	6009.8	6019.2	6028.7	6047.7
20°	5987.7	5962.4	5934.0	5886.6	5855.0	5842.4	5832.9	5832.9	5848.7	5861.3	5896.1
22.5°	5791.9	5788.7	5779.2	5757.1	5741.3	5741.3	5744.5	5750.8	5772.9	5791.9	5826.6
25°	5700.3	5712.9	5706.6	5694.0	5684.5	5687.6	5681.3	5687.6	5709.8	5728.7	5757.1
27.5°	5627.6	5646.6	5640.3	5621.3	5605.5	5611.9	5621.3	5615.0	5634.0	5656.1	5678.2
30°	5529.7	5532.9	5545.5	5523.4	5517.1	5526.6	5529.7	5536.1	5555.0	5570.8	5589.7
32.5°	5419.2	5444.5	5441.3	5419.2	5419.2	5428.7	5431.8	5220.3	4825.5	4156.0	3972.8
35°	5311.8	5340.3	5292.9	4462.3	3088.6	1648.5	1272.7	1228.5	1238.0	1244.3	1250.6
37.5°	3928.6	1863.2	1187.4	1196.9	1206.4	1215.8	1225.3	1234.8	1244.3	1253.7	1256.9
40°	1181.1	1178.0	1187.4	1200.1	1209.5	1215.8	1228.5	1238.0	1247.4	1256.9	1260.1
42.5°	1168.5	1174.8	1184.3	1196.9	1209.5	1222.2	1231.6	1244.3	1250.6	1256.9	1260.1
45°	1162.2	1174.8	1187.4	1196.9	1206.4	1212.7	1219.0	1222.2	1219.0	1219.0	1225.3
47.5°	1152.7	1165.3	1168.5	1165.3	1168.5	1165.3	1165.3	1165.3	1155.8	1152.7	1152.7
50°	1117.9	1117.9	1111.6	1099.0	1095.8	1092.7	1086.4	1083.2	1070.6	1067.4	1067.4
52.5°	1045.3	1042.2	1032.7	1016.9	1010.6	1004.3	1001.1	997.9	985.3	979.0	982.2
55°	960.0	953.7	944.3	925.3	922.2	915.8	912.7	909.5	896.9	903.2	893.7
57.5°	881.1	868.5	855.8	852.7	840.0	836.9	833.7	830.6	821.1	824.3	817.9
60°	786.4	783.2	776.9	764.2	764.2	761.1	761.1	754.8	748.5	745.3	745.3
62.5°	716.9	707.4	701.1	701.1	691.6	691.6	691.6	685.3	679.0	682.1	679.0
65°	641.1	637.9	634.8	628.5	628.5	625.3	625.3	619.0	609.5	612.7	606.3
67.5°	577.9	571.6	565.3	562.1	549.5	543.2	540.0	536.9	524.2	527.4	521.1
70°	499.0	489.5	483.2	476.9	467.4	461.1	461.1	454.8	445.3	448.4	442.1
72.5°	416.9	410.5	404.2	401.1	391.6	388.4	385.3	382.1	372.6	375.8	372.6
75°	347.4	347.4	344.2	341.1	331.6	322.1	315.8	312.6	306.3	309.5	303.2
77.5°	287.4	281.1	274.8	274.8	265.3	259.0	252.6	252.6	252.6	249.5	246.3
80°	224.2	217.9	217.9	214.7	208.4	202.1	199.0	199.0	195.8	195.8	192.6
82.5°	170.5	164.2	161.1	161.1	154.7	151.6	148.4	145.3	145.3	145.3	142.1
85°	120.0	113.7	110.5	110.5	104.2	101.1	101.1	97.9	97.9	94.7	94.7
87.5°	72.6	69.5	66.3	66.3	60.0	56.8	56.8	56.8	53.7	53.7	50.5
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-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9
2.5°	7434.1	7434.1	7411.9	7418.3	7408.8	7421.4	7405.6	7405.6	7424.6	7424.6	7437.2
5°	7168.8	7153.0	7149.8	7143.5	7111.9	7124.6	7108.8	7093.0	7115.1	7115.1	7143.5
7.5°	6805.6	6777.2	6789.8	6770.9	6751.9	6723.5	6733.0	6720.3	6736.1	6758.2	6786.6
10°	6619.3	6594.0	6609.8	6590.9	6600.3	6559.3	6562.4	6565.6	6581.4	6587.7	6613.0
12.5°	6499.3	6493.0	6486.6	6480.3	6486.6	6464.5	6451.9	6455.1	6461.4	6464.5	6483.5
15°	6246.6	6205.6	6218.2	6174.0	6177.1	6180.3	6155.0	6180.3	6177.1	6218.2	6256.1
17.5°	6041.4	6041.4	6019.2	6000.3	5987.7	5984.5	5965.6	5978.2	5965.6	5990.8	6000.3
20°	5899.2	5896.1	5892.9	5883.4	5851.9	5855.0	5864.5	5836.1	5832.9	5829.8	5848.7
22.5°	5832.9	5836.1	5823.4	5823.4	5795.0	5801.3	5804.5	5772.9	5776.1	5766.6	5776.1
25°	5763.4	5769.8	5754.0	5754.0	5747.7	5744.5	5728.7	5735.0	5716.1	5700.3	5716.1
27.5°	5681.3	5694.0	5681.3	5687.6	5675.0	5668.7	5659.2	5652.9	5634.0	5630.8	5640.3
30°	5605.5	5611.9	5608.7	5592.9	5589.7	5570.8	5580.3	5561.3	5542.4	5545.5	5551.9
32.5°	2873.8	2744.3	2115.9	1910.6	1891.7	1961.1	2324.3	2829.6	3666.5	4478.1	5062.4
35°	1253.7	1253.7	1253.7	1250.6	1250.6	1247.4	1244.3	1241.1	1238.0	1234.8	1231.6
37.5°	1260.1	1260.1	1260.1	1260.1	1256.9	1253.7	1253.7	1247.4	1244.3	1241.1	1238.0
40°	1263.2	1266.4	1266.4	1266.4	1263.2	1263.2	1260.1	1253.7	1250.6	1244.3	1238.0
42.5°	1260.1	1263.2	1263.2	1260.1	1260.1	1256.9	1256.9	1253.7	1250.6	1247.4	1244.3
45°	1219.0	1222.2	1215.8	1215.8	1212.7	1212.7	1212.7	1212.7	1212.7	1215.8	1215.8
47.5°	1146.4	1146.4	1143.2	1140.1	1140.1	1136.9	1140.1	1136.9	1143.2	1146.4	1152.7
50°	1061.1	1061.1	1054.8	1051.6	1051.6	1051.6	1051.6	1054.8	1057.9	1064.3	1070.6
52.5°	972.7	972.7	969.5	966.4	963.2	963.2	972.7	969.5	972.7	975.8	985.3
55°	887.4	890.6	884.3	884.3	881.1	881.1	881.1	884.3	887.4	890.6	900.0
57.5°	814.8	814.8	808.5	808.5	808.5	805.3	814.8	808.5	811.6	814.8	821.1
60°	742.1	739.0	739.0	735.8	735.8	735.8	742.1	739.0	739.0	742.1	748.5
62.5°	675.8	675.8	672.7	672.7	669.5	669.5	675.8	672.7	672.7	675.8	679.0
65°	600.0	600.0	596.9	593.7	603.2	593.7	603.2	596.9	603.2	606.3	612.7
67.5°	514.8	514.8	514.8	511.6	511.6	517.9	521.1	514.8	517.9	524.2	527.4
70°	439.0	439.0	435.8	435.8	435.8	442.1	445.3	439.0	442.1	445.3	451.6
72.5°	372.6	366.3	366.3	363.2	369.5	369.5	372.6	369.5	372.6	372.6	379.0
75°	306.3	300.0	300.0	300.0	306.3	303.2	306.3	303.2	306.3	306.3	309.5
77.5°	246.3	243.2	240.0	240.0	246.3	246.3	246.3	243.2	246.3	249.5	252.6
80°	192.6	189.5	186.3	186.3	192.6	192.6	192.6	195.8	192.6	195.8	199.0
82.5°	142.1	139.0	135.8	142.1	142.1	142.1	142.1	145.3	142.1	145.3	148.4
85°	94.7	91.6	88.4	94.7	94.7	94.7	94.7	97.9	94.7	97.9	101.1
87.5°	50.5	47.4	47.4	50.5	50.5	50.5	53.7	53.7	53.7	56.8	56.8
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-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9
2.5°	7456.2	7465.6	7462.5	7443.5	7424.6	7402.5	7386.7	7389.8	7421.4	7430.9	7402.5
5°	7143.5	7203.5	7203.5	7244.6	7222.5	7203.5	7216.1	7285.6	7320.4	7374.0	7393.0
7.5°	6821.4	6849.8	6846.7	6887.7	6881.4	6881.4	6890.9	6982.4	7026.7	7070.9	7083.5
10°	6641.4	6669.8	6666.6	6669.8	6660.3	6638.2	6638.2	6679.3	6717.2	6739.3	6745.6
12.5°	6511.9	6527.7	6524.5	6524.5	6518.2	6499.3	6496.1	6530.8	6571.9	6600.3	6603.5
15°	6319.3	6363.5	6372.9	6414.0	6404.5	6379.3	6385.6	6414.0	6439.3	6464.5	6455.1
17.5°	6031.9	6054.0	6057.1	6072.9	6066.6	6066.6	6104.5	6208.7	6278.2	6338.2	6344.5
20°	5867.7	5883.4	5877.1	5911.9	5896.1	5892.9	5902.4	5946.6	5978.2	6006.6	6057.1
22.5°	5788.7	5801.3	5791.9	5795.0	5766.6	5741.3	5735.0	5769.8	5804.5	5842.4	5842.4
25°	5722.4	5731.9	5728.7	5722.4	5700.3	5665.5	5659.2	5665.5	5678.2	5681.3	5659.2
27.5°	5643.4	5649.8	5649.8	5652.9	5624.5	5592.9	5586.6	5580.3	5592.9	5589.7	5555.0
30°	5561.3	5551.9	5555.0	5558.2	5532.9	5504.5	5491.8	5488.7	5501.3	5498.2	5463.4
32.5°	5365.5	5438.2	5444.5	5450.8	5428.7	5403.4	5390.8	5381.3	5387.6	5384.5	5352.9
35°	1228.5	1250.6	1531.7	3467.5	4708.7	5213.9	5267.6	5255.0	5258.2	5258.2	5232.9
37.5°	1231.6	1228.5	1225.3	1215.8	1206.4	1200.1	2074.8	4424.4	5125.5	5128.7	5106.6
40°	1231.6	1228.5	1225.3	1219.0	1206.4	1196.9	1181.1	1168.5	1196.9	2633.8	4819.2
42.5°	1238.0	1231.6	1225.3	1219.0	1206.4	1193.7	1181.1	1165.3	1174.8	1168.5	1152.7
45°	1219.0	1215.8	1215.8	1212.7	1206.4	1193.7	1178.0	1159.0	1149.5	1159.0	1143.2
47.5°	1159.0	1162.2	1171.6	1174.8	1174.8	1178.0	1168.5	1155.8	1140.1	1149.5	1130.6
50°	1076.9	1083.2	1086.4	1102.2	1108.5	1121.1	1124.3	1124.3	1121.1	1133.7	1121.1
52.5°	988.5	994.8	1010.6	1016.9	1023.2	1042.2	1048.5	1057.9	1064.3	1083.2	1095.8
55°	903.2	906.4	912.7	925.3	934.8	950.6	960.0	969.5	985.3	994.8	1032.7
57.5°	824.3	827.4	840.0	843.2	849.5	862.1	871.6	884.3	896.9	903.2	947.4
60°	748.5	751.6	761.1	764.2	767.4	780.0	789.5	799.0	808.5	814.8	846.4
62.5°	682.1	682.1	691.6	691.6	694.8	704.2	710.6	716.9	726.4	729.5	745.3
65°	615.8	619.0	625.3	625.3	628.5	634.8	637.9	641.1	650.6	650.6	663.2
67.5°	533.7	536.9	546.3	552.7	555.8	568.4	571.6	574.8	581.1	584.2	590.6
70°	454.8	457.9	467.4	470.5	473.7	483.2	489.5	499.0	508.4	517.9	524.2
72.5°	382.1	385.3	394.8	394.8	404.2	407.4	413.7	416.9	426.3	432.7	442.1
75°	312.6	315.8	325.3	325.3	334.8	337.9	341.1	344.2	350.5	356.9	363.2
77.5°	255.8	255.8	268.4	274.8	281.1	281.1	284.2	284.2	284.2	287.4	293.7
80°	202.1	202.1	211.6	217.9	224.2	224.2	227.4	230.5	233.7	233.7	236.9
82.5°	151.6	151.6	161.1	164.2	170.5	170.5	170.5	173.7	176.9	173.7	180.0
85°	104.2	104.2	110.5	113.7	120.0	120.0	120.0	123.2	126.3	123.2	126.3
87.5°	60.0	63.2	66.3	69.5	72.6	75.8	75.8	75.8	79.0	79.0	82.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

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

**CANDELA DISTRIBUTION (continued):**

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9
2.5°	7370.9	7333.0	7329.8	7285.6	7273.0	7276.1	7241.4	7228.8	7171.9	7159.3	7099.3
5°	7399.3	7418.3	7408.8	7405.6	7415.1	7408.8	7383.5	7370.9	7361.4	7336.2	7285.6
7.5°	7086.7	7099.3	7108.8	7149.8	7184.6	7244.6	7307.7	7348.8	7380.4	7386.7	7345.6
10°	6767.7	6827.7	6868.8	6931.9	6982.4	7017.2	7055.1	7089.8	7181.4	7273.0	7326.7
12.5°	6603.5	6619.3	6616.1	6650.9	6685.6	6777.2	6865.6	6916.1	6985.6	7026.7	7124.6
15°	6464.5	6467.7	6477.2	6502.4	6521.4	6553.0	6594.0	6669.8	6808.8	6871.9	6925.6
17.5°	6338.2	6338.2	6344.5	6366.6	6391.9	6420.3	6445.6	6477.2	6546.6	6650.9	6783.5
20°	6136.1	6224.5	6234.0	6230.8	6243.5	6297.2	6303.5	6360.3	6395.1	6436.1	6565.6
22.5°	5836.1	5889.8	5965.6	6082.4	6126.6	6151.9	6170.8	6196.1	6249.8	6297.2	6350.8
25°	5671.9	5706.6	5728.7	5763.4	5855.0	6003.5	6031.9	6060.3	6095.0	6129.8	6196.1
27.5°	5526.6	5523.4	5539.2	5570.8	5596.1	5675.0	5814.0	5924.5	5930.8	5981.3	6038.2
30°	5422.4	5403.4	5381.3	5375.0	5409.7	5450.8	5491.8	5665.5	5785.5	5810.8	5870.8
32.5°	5324.5	5292.9	5261.3	5236.0	5213.9	5248.7	5273.9	5349.7	5504.5	5649.8	5681.3
35°	5204.5	5172.9	5135.0	5106.6	5071.8	5068.7	5065.5	5138.1	5188.7	5362.4	5514.0
37.5°	5081.3	5046.6	5015.0	4983.4	4948.7	4923.4	4907.6	4926.6	4973.9	5049.7	5302.4
40°	4951.8	4910.8	4879.2	4853.9	4806.6	4787.6	4756.0	4743.4	4746.5	4812.9	4945.5
42.5°	2959.1	4718.1	4733.9	4705.5	4664.4	4639.2	4604.4	4588.6	4557.1	4588.6	4664.4
45°	1140.1	1152.7	3451.7	4560.2	4509.7	4478.1	4446.5	4430.7	4396.0	4370.7	4440.2
47.5°	1117.9	1130.6	1105.3	1566.4	4304.4	4313.9	4276.0	4260.2	4225.5	4206.5	4187.6
50°	1102.2	1111.6	1092.7	1099.0	1076.9	3944.4	4102.3	4083.4	4045.5	4023.4	3985.5
52.5°	1086.4	1086.4	1073.7	1057.9	1051.6	1054.8	3319.1	3903.4	3859.1	3837.0	3786.5
55°	1035.8	1042.2	1054.8	1029.5	1023.2	1020.1	1010.6	3161.2	3653.9	3628.6	3584.4
57.5°	960.0	972.7	1007.4	1001.1	1001.1	975.8	969.5	969.5	2933.8	3417.0	3372.8
60°	871.6	884.3	922.2	934.8	944.3	937.9	931.6	928.5	915.8	3091.7	3148.6
62.5°	780.0	792.7	805.3	846.4	859.0	874.8	893.7	884.3	871.6	871.6	2911.7
65°	682.1	701.1	707.4	745.3	761.1	789.5	805.3	827.4	821.1	817.9	833.7
67.5°	596.9	619.0	622.1	637.9	666.3	679.0	697.9	739.0	757.9	764.2	770.6
70°	524.2	536.9	546.3	552.7	571.6	574.8	609.5	637.9	666.3	697.9	707.4
72.5°	451.6	461.1	480.0	473.7	480.0	492.7	511.6	530.6	559.0	603.2	631.6
75°	369.5	375.8	388.4	394.8	407.4	416.9	429.5	445.3	470.5	492.7	530.6
77.5°	296.9	300.0	309.5	312.6	325.3	334.8	356.9	366.3	382.1	397.9	420.0
80°	240.0	240.0	243.2	243.2	252.6	262.1	277.9	287.4	306.3	319.0	319.0
82.5°	183.2	183.2	192.6	192.6	199.0	199.0	208.4	208.4	217.9	224.2	230.5
85°	129.5	132.6	139.0	135.8	142.1	139.0	145.3	151.6	154.7	151.6	148.4
87.5°	85.3	85.3	91.6	88.4	91.6	91.6	97.9	97.9	101.1	101.1	97.9
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-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9
2.5°	7077.2	7029.8	7001.4	6966.7	6957.2	6947.7	6960.3	6960.3	6941.4	6925.6	6897.2
5°	7241.4	7190.9	7137.2	7080.3	7026.7	6969.8	6947.7	6944.6	6909.8	6890.9	6881.4
7.5°	7326.7	7301.4	7241.4	7162.5	7080.3	6979.3	6935.1	6909.8	6875.1	6868.8	6868.8
10°	7336.2	7307.7	7276.1	7219.3	7124.6	6991.9	6906.7	6856.1	6824.5	6846.7	6887.7
12.5°	7244.6	7298.3	7269.8	7231.9	7156.1	6995.1	6871.9	6796.1	6786.6	6843.5	6950.9
15°	7010.9	7168.8	7247.7	7209.8	7149.8	6988.8	6815.1	6726.6	6726.6	6843.5	6982.4
17.5°	6834.0	6957.2	7149.8	7181.4	7111.9	6976.1	6761.4	6657.2	6685.6	6856.1	7004.6
20°	6688.8	6764.5	6950.9	7127.7	7061.4	6947.7	6682.4	6575.1	6631.9	6837.2	7036.1
22.5°	6461.4	6613.0	6726.6	6988.8	7010.9	6894.0	6603.5	6474.0	6587.7	6837.2	7020.3
25°	6240.3	6423.5	6543.5	6799.3	6935.1	6827.7	6530.8	6366.6	6540.3	6827.7	7007.7
27.5°	6085.6	6170.8	6388.7	6571.9	6821.4	6739.3	6432.9	6249.8	6480.3	6777.2	6935.1
30°	5921.3	5978.2	6192.9	6366.6	6669.8	6638.2	6331.9	6120.3	6404.5	6729.8	6745.6
32.5°	5741.3	5804.5	5915.0	6167.7	6458.2	6543.5	6218.2	5990.8	6322.4	6657.2	6524.5
35°	5558.2	5605.5	5694.0	5965.6	6211.9	6401.4	6079.2	5842.4	6265.6	6546.6	6312.9
37.5°	5375.0	5425.5	5501.3	5728.7	5952.9	6268.7	5959.2	5694.0	6161.4	6350.8	6091.9
40°	5201.3	5229.7	5308.7	5450.8	5738.2	6132.9	5823.4	5539.2	6054.0	6101.4	5791.9
42.5°	4882.3	5024.5	5097.1	5210.8	5495.0	5946.6	5665.5	5375.0	5934.0	5851.9	5491.8
45°	4538.1	4847.6	4879.2	4992.9	5280.3	5747.7	5517.1	5213.9	5820.3	5637.1	5207.6
47.5°	4257.1	4481.3	4664.4	4759.2	5024.5	5514.0	5378.2	5078.1	5649.8	5365.5	4929.7
50°	4007.6	4127.6	4459.2	4528.6	4718.1	5232.9	5213.9	4920.2	5412.9	5024.5	4658.1
52.5°	3764.4	3849.7	4149.7	4298.1	4452.9	4929.7	5018.1	4765.5	5153.9	4683.4	4383.4
55°	3552.8	3581.2	3745.4	4058.1	4197.0	4623.4	4803.4	4585.5	4825.5	4358.1	4118.1
57.5°	3334.9	3309.6	3429.6	3830.7	3931.8	4310.7	4576.0	4402.3	4560.2	4026.5	3843.3
60°	3107.5	3072.8	3123.3	3388.6	3650.7	4001.2	4307.6	4200.2	4238.1	3698.1	3537.0
62.5°	2870.7	2835.9	2820.1	2987.5	3376.0	3682.3	4036.0	3976.0	3843.3	3398.1	3158.1
65°	2624.3	2589.6	2564.3	2630.7	3072.8	3268.6	3732.8	3717.0	3410.7	3082.3	2659.1
67.5°	799.0	2355.9	2302.2	2299.1	2589.6	2892.8	3404.4	3379.1	2974.9	2744.3	2289.6
70°	720.0	1910.6	2030.6	2002.2	2128.5	2510.6	3028.6	3009.6	2551.7	2201.2	2024.3
72.5°	660.0	675.8	1793.8	1762.2	1790.6	2134.8	2637.0	2586.4	2163.3	1736.9	1749.6
75°	565.3	593.7	619.0	1487.4	1449.5	1768.5	2210.6	2131.7	1784.3	1433.8	1462.2
77.5°	461.1	495.8	514.8	1083.2	1171.6	1260.1	1765.4	1661.1	1228.5	1146.4	546.3
80°	344.2	372.6	404.2	432.7	890.6	881.1	1310.6	1206.4	855.8	713.7	426.3
82.5°	252.6	262.1	281.1	312.6	353.7	590.6	843.2	742.1	593.7	325.3	293.7
85°	157.9	170.5	180.0	189.5	214.7	353.7	416.9	331.6	249.5	199.0	186.3
87.5°	101.1	101.1	97.9	101.1	104.2	126.3	142.1	135.8	107.4	101.1	101.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

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

**CANDELA DISTRIBUTION (continued):**

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9
2.5°	6865.6	6821.4	6821.4	6808.8	6818.2	6818.2	6815.1	6818.2	6840.3	6853.0	6875.1
5°	6862.4	6849.8	6878.2	6913.0	6954.0	7004.6	7017.2	7061.4	7102.5	7156.1	7213.0
7.5°	6903.5	6947.7	7001.4	7058.2	7140.4	7200.4	7254.0	7307.7	7345.6	7396.2	7427.7
10°	6963.5	7051.9	7143.5	7216.1	7304.6	7355.1	7389.8	7396.2	7342.5	7257.2	7187.7
12.5°	7048.8	7153.0	7238.3	7307.7	7348.8	7329.8	7228.8	7124.6	7064.6	6976.1	6853.0
15°	7121.4	7216.1	7304.6	7276.1	7165.6	7061.4	6982.4	6859.3	6739.3	6657.2	6603.5
17.5°	7153.0	7244.6	7213.0	7064.6	6960.3	6840.3	6679.3	6584.5	6505.6	6442.4	6410.8
20°	7171.9	7156.1	6985.6	6878.2	6676.1	6565.6	6461.4	6372.9	6312.9	6281.4	6275.0
22.5°	7121.4	6928.8	6783.5	6590.9	6442.4	6350.8	6268.7	6196.1	6155.0	6129.8	6114.0
25°	6954.0	6729.8	6515.1	6363.5	6237.1	6158.2	6095.0	6035.0	5984.5	5971.9	5940.3
27.5°	6720.3	6537.2	6252.9	6136.1	6025.6	5987.7	5918.2	5858.2	5814.0	5776.1	5675.0
30°	6527.7	6237.1	6031.9	5924.5	5858.2	5814.0	5735.0	5671.9	5596.1	5457.1	5400.3
32.5°	6290.8	6003.5	5807.7	5747.7	5665.5	5627.6	5539.2	5400.3	5283.4	5226.6	5223.4
35°	5984.5	5747.7	5605.5	5551.9	5485.5	5422.4	5239.2	5112.9	5056.0	5062.4	5109.7
37.5°	5728.7	5517.1	5425.5	5349.7	5273.9	5112.9	4958.1	4898.1	4913.9	4945.5	4967.6
40°	5469.7	5308.7	5204.5	5144.5	4973.9	4816.0	4733.9	4756.0	4784.4	4806.6	4835.0
42.5°	5217.1	5103.4	4999.2	4882.3	4648.6	4563.4	4582.3	4610.8	4636.0	4667.6	4696.0
45°	4977.1	4876.0	4756.0	4490.7	4373.9	4396.0	4424.4	4446.5	4484.4	4506.5	4535.0
47.5°	4749.7	4642.3	4430.7	4197.0	4184.4	4228.6	4253.9	4282.3	4310.7	4253.9	2346.4
50°	4493.9	4383.4	4061.3	3972.8	4001.2	4042.3	4073.9	4102.3	3653.9	1452.7	1117.9
52.5°	4241.3	3960.2	3754.9	3780.2	3808.6	3856.0	3878.1	2880.1	1146.4	1092.7	1095.8
55°	3960.2	3600.2	3540.2	3571.8	3597.0	3644.4	2415.9	1057.9	1051.6	1048.5	1073.7
57.5°	3518.1	3300.2	3325.4	3357.0	3382.3	2387.5	1029.5	1023.2	1026.4	1029.5	1032.7
60°	3123.3	3075.9	3104.4	3132.8	2217.0	994.8	975.8	979.0	991.6	982.2	956.9
62.5°	2810.7	2848.6	2877.0	2520.1	944.3	934.8	944.3	934.8	912.7	896.9	865.3
65°	2570.7	2608.5	2630.7	887.4	884.3	896.9	887.4	855.8	821.1	776.9	767.4
67.5°	2318.0	2355.9	843.2	821.1	833.7	817.9	780.0	742.1	716.9	679.0	663.2
70°	2055.9	881.1	764.2	761.1	739.0	713.7	672.7	634.8	603.2	587.4	571.6
72.5°	1484.3	697.9	688.5	663.2	625.3	590.6	555.8	533.7	517.9	508.4	499.0
75°	619.0	606.3	577.9	533.7	495.8	480.0	454.8	439.0	432.7	413.7	407.4
77.5°	517.9	492.7	451.6	420.0	397.9	388.4	369.5	350.5	341.1	337.9	325.3
80°	397.9	363.2	344.2	328.4	322.1	300.0	277.9	268.4	262.1	259.0	249.5
82.5°	271.6	259.0	246.3	224.2	224.2	214.7	205.3	199.0	192.6	192.6	186.3
85°	176.9	167.4	164.2	154.7	154.7	148.4	145.3	142.1	139.0	135.8	132.6
87.5°	101.1	101.1	104.2	101.1	101.1	97.9	94.7	91.6	88.4	88.4	82.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

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

**CANDELA DISTRIBUTION (continued):**

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9
2.5°	6903.5	6935.1	6941.4	7048.8	7108.8	7105.6	7086.7	7143.5	7108.8	7089.8	7108.8
5°	7269.8	7307.7	7339.3	7456.2	7497.2	7516.2	7513.0	7544.6	7519.3	7497.2	7497.2
7.5°	7449.8	7462.5	7475.1	7446.7	7427.7	7396.2	7348.8	7279.3	7244.6	7206.7	7159.3
10°	7153.0	7111.9	7127.7	7070.9	7023.5	6988.8	6944.6	6887.7	6840.3	6805.6	6751.9
12.5°	6789.8	6786.6	6793.0	6802.4	6755.1	6726.6	6691.9	6650.9	6616.1	6578.2	6534.0
15°	6568.7	6571.9	6597.2	6587.7	6571.9	6556.1	6518.2	6505.6	6474.0	6432.9	6407.7
17.5°	6410.8	6426.6	6451.9	6439.3	6414.0	6398.2	6369.8	6341.4	6312.9	6281.4	6243.5
20°	6271.9	6287.7	6303.5	6287.7	6240.3	6218.2	6180.3	6091.9	6028.7	5965.6	5908.7
22.5°	6120.3	6129.8	6117.1	6066.6	5946.6	5889.8	5845.6	5820.3	5766.6	5731.9	5697.1
25°	5930.8	5877.1	5795.0	5738.2	5690.8	5665.5	5646.6	5643.4	5637.1	5630.8	5615.0
27.5°	5621.3	5602.4	5558.2	5536.1	5539.2	5548.7	5551.9	5561.3	5551.9	5539.2	5526.6
30°	5390.8	5400.3	5403.4	5409.7	5425.5	5435.0	5438.2	5450.8	5444.5	5435.0	5428.7
32.5°	5245.5	5267.6	5280.3	5299.2	5308.7	5324.5	5324.5	5343.4	5324.5	5321.3	5315.0
35°	5125.5	5144.5	5150.8	5179.2	5188.7	5204.5	5204.5	5220.3	5204.5	5043.4	3982.3
37.5°	5005.5	5024.5	5037.1	5062.4	5065.5	5075.0	4683.4	3426.5	2210.6	1711.7	1307.4
40°	4863.4	4885.5	4898.1	4907.6	3448.6	2188.5	1506.4	1225.3	1225.3	1234.8	1244.3
42.5°	4711.8	4727.6	3293.8	1916.9	1193.7	1190.6	1200.1	1209.5	1219.0	1231.6	1244.3
45°	3704.4	1869.6	1187.4	1159.0	1168.5	1181.1	1193.7	1206.4	1222.2	1234.8	1241.1
47.5°	1215.8	1140.1	1155.8	1143.2	1159.0	1174.8	1187.4	1200.1	1203.2	1206.4	1203.2
50°	1124.3	1124.3	1133.7	1133.7	1146.4	1152.7	1152.7	1152.7	1140.1	1136.9	1127.4
52.5°	1086.4	1111.6	1099.0	1105.3	1099.0	1089.5	1080.1	1070.6	1051.6	1045.3	1032.7
55°	1067.4	1076.9	1045.3	1035.8	1023.2	997.9	985.3	972.7	956.9	950.6	934.8
57.5°	1023.2	1001.1	966.4	950.6	928.5	903.2	890.6	881.1	865.3	859.0	849.5
60°	941.1	896.9	874.8	855.8	830.6	808.5	799.0	792.7	780.0	776.9	767.4
62.5°	840.0	802.1	783.2	757.9	739.0	726.4	716.9	713.7	701.1	701.1	694.8
65°	729.5	710.6	694.8	669.5	660.0	647.4	644.2	641.1	634.8	631.6	625.3
67.5°	641.1	628.5	606.3	593.7	587.4	577.9	571.6	565.3	552.7	546.3	536.9
70°	562.1	552.7	530.6	521.1	508.4	492.7	483.2	476.9	467.4	461.1	451.6
72.5°	486.3	457.9	442.1	432.7	423.2	407.4	404.2	397.9	388.4	385.3	375.8
75°	391.6	369.5	360.0	353.7	344.2	334.8	334.8	334.8	325.3	322.1	319.0
77.5°	312.6	300.0	293.7	287.4	284.2	277.9	268.4	265.3	255.8	255.8	252.6
80°	240.0	233.7	227.4	224.2	221.1	214.7	208.4	205.3	195.8	195.8	192.6
82.5°	176.9	173.7	170.5	167.4	164.2	161.1	151.6	148.4	142.1	142.1	139.0
85°	126.3	123.2	116.8	113.7	113.7	110.5	101.1	97.9	91.6	91.6	91.6
87.5°	79.0	75.8	72.6	69.5	66.3	63.2	56.8	53.7	53.7	47.4	44.2
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-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9
2.5°	7070.9	7124.6	7118.2	7156.1	7165.6	7184.6	7190.9	7194.0	7146.7	7184.6	7187.7
5°	7487.7	7497.2	7503.5	7519.3	7535.1	7538.3	7522.5	7503.5	7509.8	7497.2	7465.6
7.5°	7153.0	7105.6	7096.1	7083.5	7077.2	7070.9	7042.5	7067.7	7039.3	7026.7	6982.4
10°	6742.4	6698.2	6695.1	6695.1	6704.5	6701.4	6695.1	6682.4	6707.7	6691.9	6682.4
12.5°	6527.7	6511.9	6521.4	6515.1	6540.3	6546.6	6540.3	6540.3	6534.0	6521.4	6527.7
15°	6398.2	6385.6	6395.1	6385.6	6404.5	6407.7	6391.9	6401.4	6385.6	6369.8	6363.5
17.5°	6227.7	6199.3	6177.1	6145.6	6148.7	6142.4	6123.5	6123.5	6107.7	6066.6	6069.8
20°	5899.2	5870.8	5858.2	5858.2	5874.0	5880.3	5877.1	5883.4	5867.7	5861.3	5836.1
22.5°	5694.0	5690.8	5697.1	5712.9	5738.2	5772.9	5776.1	5776.1	5776.1	5772.9	5741.3
25°	5621.3	5621.3	5627.6	5649.8	5668.7	5694.0	5700.3	5706.6	5700.3	5700.3	5671.9
27.5°	5539.2	5532.9	5545.5	5567.6	5589.7	5608.7	5624.5	5627.6	5618.2	5618.2	5627.6
30°	5438.2	5435.0	5450.8	5472.9	5491.8	5510.8	5526.6	5539.2	5526.6	5526.6	5517.1
32.5°	5333.9	5333.9	5340.3	5207.6	4828.7	4348.6	4358.1	4080.2	3887.6	3644.4	3966.5
35°	3328.6	2422.2	2081.2	1762.2	1538.0	1392.7	1389.5	1342.2	1320.1	1304.3	1301.1
37.5°	1256.9	1263.2	1275.9	1282.2	1291.6	1298.0	1301.1	1301.1	1301.1	1301.1	1298.0
40°	1253.7	1266.4	1275.9	1285.3	1294.8	1301.1	1301.1	1304.3	1307.4	1307.4	1307.4
42.5°	1256.9	1269.5	1282.2	1291.6	1298.0	1301.1	1304.3	1307.4	1307.4	1307.4	1307.4
45°	1253.7	1260.1	1260.1	1263.2	1263.2	1263.2	1266.4	1266.4	1263.2	1260.1	1266.4
47.5°	1206.4	1206.4	1196.9	1193.7	1190.6	1184.3	1187.4	1184.3	1181.1	1178.0	1184.3
50°	1124.3	1111.6	1105.3	1099.0	1095.8	1089.5	1092.7	1089.5	1086.4	1080.1	1089.5
52.5°	1026.4	1023.2	1010.6	1004.3	1001.1	1004.3	997.9	994.8	991.6	988.5	991.6
55°	931.6	919.0	915.8	909.5	906.4	909.5	906.4	903.2	900.0	896.9	900.0
57.5°	846.4	836.9	833.7	827.4	827.4	827.4	827.4	824.3	821.1	817.9	821.1
60°	764.2	757.9	754.8	754.8	751.6	751.6	751.6	748.5	745.3	745.3	748.5
62.5°	694.8	694.8	685.3	682.1	682.1	685.3	682.1	679.0	675.8	672.7	679.0
65°	622.1	609.5	606.3	600.0	593.7	596.9	593.7	590.6	587.4	584.2	590.6
67.5°	533.7	530.6	517.9	511.6	508.4	511.6	508.4	505.3	502.1	499.0	505.3
70°	448.4	448.4	435.8	432.7	429.5	429.5	426.3	426.3	423.2	420.0	426.3
72.5°	372.6	372.6	369.5	363.2	360.0	356.9	353.7	350.5	350.5	353.7	353.7
75°	309.5	303.2	290.5	293.7	290.5	287.4	287.4	284.2	281.1	287.4	284.2
77.5°	243.2	240.0	230.5	233.7	230.5	227.4	227.4	224.2	221.1	224.2	224.2
80°	183.2	183.2	180.0	176.9	176.9	173.7	170.5	170.5	167.4	170.5	170.5
82.5°	132.6	132.6	129.5	126.3	123.2	123.2	120.0	120.0	120.0	120.0	120.0
85°	85.3	82.1	82.1	75.8	75.8	75.8	72.6	72.6	72.6	72.6	72.6
87.5°	41.1	41.1	37.9	37.9	34.7	31.6	31.6	28.4	28.4	31.6	31.6
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-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9
2.5°	7130.9	7171.9	7137.2	7153.0	7156.1	7209.8	7206.7	7219.3	7197.2	7171.9	7137.2
5°	7494.1	7475.1	7449.8	7509.8	7478.3	7516.2	7528.8	7554.1	7554.1	7550.9	7522.5
7.5°	7029.8	6988.8	7020.3	7042.5	7051.9	7026.7	7077.2	7134.0	7181.4	7209.8	7213.0
10°	6666.6	6679.3	6676.1	6685.6	6707.7	6704.5	6736.1	6767.7	6780.3	6799.3	6805.6
12.5°	6496.1	6493.0	6499.3	6521.4	6534.0	6530.8	6562.4	6581.4	6587.7	6590.9	6587.7
15°	6360.3	6338.2	6354.0	6357.2	6366.6	6366.6	6404.5	6432.9	6445.6	6451.9	6445.6
17.5°	6104.5	6050.8	6101.4	6101.4	6136.1	6129.8	6189.8	6237.1	6262.4	6281.4	6281.4
20°	5851.9	5826.6	5845.6	5839.2	5864.5	5861.3	5899.2	5930.8	5952.9	5968.7	5987.7
22.5°	5750.8	5757.1	5728.7	5731.9	5731.9	5728.7	5747.7	5763.4	5769.8	5779.2	5772.9
25°	5684.5	5690.8	5681.3	5665.5	5659.2	5665.5	5675.0	5694.0	5697.1	5690.8	5668.7
27.5°	5618.2	5599.2	5615.0	5586.6	5580.3	5592.9	5605.5	5608.7	5611.9	5611.9	5592.9
30°	5517.1	5501.3	5517.1	5504.5	5491.8	5504.5	5514.0	5514.0	5520.3	5523.4	5501.3
32.5°	3856.0	3887.6	4399.2	4708.7	5144.5	5365.5	5406.6	5406.6	5412.9	5412.9	5393.9
35°	1313.7	1316.9	1424.3	1544.3	1800.1	2115.9	2529.6	2744.3	3470.7	4339.2	5179.2
37.5°	1298.0	1294.8	1291.6	1288.5	1285.3	1282.2	1275.9	1272.7	1291.6	1531.7	2078.0
40°	1304.3	1301.1	1294.8	1291.6	1288.5	1282.2	1279.0	1272.7	1266.4	1260.1	1253.7
42.5°	1304.3	1301.1	1298.0	1294.8	1291.6	1288.5	1282.2	1275.9	1269.5	1260.1	1250.6
45°	1260.1	1260.1	1263.2	1263.2	1266.4	1266.4	1266.4	1263.2	1263.2	1260.1	1247.4
47.5°	1178.0	1178.0	1187.4	1187.4	1193.7	1200.1	1200.1	1206.4	1215.8	1222.2	1225.3
50°	1083.2	1083.2	1092.7	1095.8	1102.2	1111.6	1121.1	1124.3	1133.7	1146.4	1159.0
52.5°	988.5	988.5	997.9	997.9	1004.3	1013.7	1023.2	1026.4	1039.0	1051.6	1067.4
55°	900.0	900.0	906.4	909.5	912.7	919.0	928.5	928.5	941.1	950.6	966.4
57.5°	821.1	827.4	827.4	827.4	830.6	836.9	843.2	843.2	852.7	862.1	874.8
60°	745.3	751.6	751.6	751.6	754.8	757.9	764.2	764.2	770.6	776.9	789.5
62.5°	675.8	682.1	682.1	685.3	685.3	688.5	694.8	691.6	697.9	701.1	710.6
65°	587.4	593.7	596.9	600.0	603.2	609.5	619.0	615.8	625.3	631.6	641.1
67.5°	502.1	508.4	508.4	511.6	514.8	521.1	527.4	527.4	536.9	543.2	555.8
70°	423.2	429.5	429.5	432.7	435.8	442.1	448.4	445.3	454.8	461.1	470.5
72.5°	350.5	356.9	356.9	360.0	360.0	366.3	372.6	379.0	379.0	385.3	391.6
75°	284.2	287.4	290.5	290.5	293.7	296.9	303.2	309.5	312.6	315.8	322.1
77.5°	224.2	227.4	230.5	230.5	233.7	236.9	240.0	252.6	259.0	262.1	262.1
80°	170.5	173.7	173.7	173.7	176.9	180.0	186.3	186.3	199.0	199.0	202.1
82.5°	120.0	123.2	123.2	123.2	126.3	132.6	135.8	139.0	145.3	148.4	148.4
85°	72.6	75.8	75.8	75.8	79.0	82.1	88.4	91.6	94.7	94.7	97.9
87.5°	28.4	31.6	34.7	34.7	37.9	41.1	44.2	47.4	50.5	50.5	53.7
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-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9
2.5°	7099.3	7121.4	7099.3	7111.9	7127.7	7099.3	7033.0	7007.7	6998.2	6960.3	6935.1
5°	7494.1	7494.1	7484.6	7509.8	7506.7	7462.5	7393.0	7361.4	7329.8	7288.8	7257.2
7.5°	7213.0	7238.3	7254.0	7351.9	7415.1	7421.4	7465.6	7475.1	7487.7	7475.1	7456.2
10°	6808.8	6799.3	6843.5	6935.1	6988.8	7017.2	7102.5	7143.5	7178.2	7247.7	7320.4
12.5°	6581.4	6594.0	6613.0	6679.3	6729.8	6717.2	6751.9	6780.3	6821.4	6890.9	6995.1
15°	6429.8	6442.4	6461.4	6511.9	6543.5	6527.7	6546.6	6565.6	6594.0	6628.7	6691.9
17.5°	6265.6	6287.7	6309.8	6363.5	6391.9	6388.7	6404.5	6410.8	6420.3	6442.4	6486.6
20°	6009.8	6079.2	6123.5	6196.1	6237.1	6230.8	6259.3	6268.7	6281.4	6303.5	6322.4
22.5°	5776.1	5795.0	5817.1	5896.1	5965.6	6050.8	6069.8	6095.0	6126.6	6148.7	6167.7
25°	5643.4	5630.8	5640.3	5694.0	5731.9	5738.2	5766.6	5848.7	5934.0	5971.9	6016.1
27.5°	5564.5	5551.9	5548.7	5574.0	5580.3	5564.5	5558.2	5583.4	5646.6	5709.8	5842.4
30°	5479.2	5463.4	5450.8	5472.9	5482.4	5460.3	5419.2	5397.1	5435.0	5450.8	5504.5
32.5°	5378.2	5362.4	5356.1	5368.7	5375.0	5356.1	5311.8	5286.6	5280.3	5267.6	5280.3
35°	5264.5	5248.7	5239.2	5242.4	5255.0	5239.2	5201.3	5169.7	5153.9	5119.2	5093.9
37.5°	2712.8	3843.3	4989.7	5109.7	5122.4	5119.2	5081.3	5046.6	5030.8	4989.7	4977.1
40°	1241.1	1386.4	2081.2	2719.1	3922.3	4983.4	4948.7	4913.9	4885.5	4872.9	4825.5
42.5°	1238.0	1241.1	1244.3	1228.5	1522.2	2592.8	3827.6	4778.1	4759.2	4727.6	4692.9
45°	1238.0	1222.2	1234.8	1215.8	1222.2	1219.0	1519.0	2450.6	4361.3	4557.1	4541.3
47.5°	1225.3	1215.8	1228.5	1212.7	1193.7	1203.2	1190.6	1206.4	1882.2	3192.8	4373.9
50°	1168.5	1174.8	1196.9	1193.7	1178.0	1190.6	1168.5	1187.4	1171.6	1285.3	2475.9
52.5°	1083.2	1095.8	1117.9	1136.9	1143.2	1159.0	1152.7	1159.0	1146.4	1149.5	1152.7
55°	982.2	997.9	1016.9	1045.3	1057.9	1083.2	1102.2	1111.6	1127.4	1124.3	1099.0
57.5°	887.4	903.2	919.0	947.4	975.8	988.5	1023.2	1042.2	1083.2	1073.7	1067.4
60°	799.0	811.6	827.4	833.7	868.5	890.6	922.2	941.1	994.8	1007.4	1026.4
62.5°	720.0	726.4	739.0	748.5	770.6	792.7	808.5	840.0	868.5	909.5	937.9
65°	647.4	653.7	663.2	669.5	672.7	704.2	713.7	748.5	757.9	802.1	827.4
67.5°	565.3	577.9	590.6	596.9	603.2	622.1	628.5	644.2	666.3	685.3	716.9
70°	480.0	489.5	502.1	511.6	524.2	536.9	555.8	565.3	581.1	593.7	619.0
72.5°	401.1	410.5	416.9	426.3	435.8	445.3	461.1	483.2	495.8	517.9	524.2
75°	325.3	334.8	341.1	347.4	356.9	363.2	369.5	391.6	404.2	423.2	442.1
77.5°	268.4	268.4	274.8	293.7	290.5	290.5	296.9	309.5	319.0	331.6	350.5
80°	208.4	211.6	214.7	230.5	233.7	236.9	233.7	243.2	252.6	255.8	268.4
82.5°	154.7	157.9	157.9	167.4	176.9	176.9	176.9	180.0	189.5	192.6	199.0
85°	104.2	107.4	110.5	113.7	120.0	123.2	126.3	126.3	132.6	135.8	139.0
87.5°	56.8	63.2	66.3	69.5	72.6	75.8	79.0	82.1	85.3	88.4	91.6
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-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9	6890.9
2.5°	6925.6	6909.8	6900.3	6875.1	6868.8	6827.7	6834.0	6827.7	6827.7	6837.2	6868.8
5°	7222.5	7146.7	7127.7	7074.0	7029.8	6954.0	6906.7	6881.4	6843.5	6827.7	6849.8
7.5°	7424.6	7367.7	7320.4	7273.0	7209.8	7121.4	7055.1	6979.3	6916.1	6856.1	6840.3
10°	7389.8	7453.0	7453.0	7424.6	7364.6	7276.1	7197.2	7102.5	6991.9	6897.2	6840.3
12.5°	7096.1	7206.7	7295.1	7361.4	7421.4	7361.4	7282.5	7206.7	7083.5	6944.6	6840.3
15°	6774.0	6887.7	6998.2	7137.2	7282.5	7342.5	7339.3	7250.9	7140.4	6995.1	6849.8
17.5°	6546.6	6625.6	6685.6	6837.2	7014.0	7168.8	7273.0	7279.3	7171.9	7042.5	6853.0
20°	6376.1	6432.9	6483.5	6568.7	6723.5	6913.0	7105.6	7213.0	7194.0	7051.9	6862.4
22.5°	6221.4	6262.4	6303.5	6366.6	6489.8	6613.0	6837.2	7058.2	7153.0	7036.1	6853.0
25°	6066.6	6110.8	6142.4	6186.6	6284.5	6385.6	6543.5	6818.2	7029.8	7023.5	6834.0
27.5°	5883.4	5943.5	5981.3	6041.4	6107.7	6183.5	6290.8	6549.8	6853.0	6960.3	6783.5
30°	5662.4	5750.8	5807.7	5874.0	5930.8	5997.1	6082.4	6240.3	6616.1	6837.2	6729.8
32.5°	5343.4	5501.3	5627.6	5690.8	5754.0	5810.8	5886.6	6019.2	6325.6	6669.8	6669.8
35°	5116.0	5188.7	5302.4	5485.5	5564.5	5621.3	5690.8	5795.0	5990.8	6470.8	6571.9
37.5°	4939.2	4967.6	5024.5	5204.5	5352.9	5444.5	5514.0	5580.3	5772.9	6199.3	6445.6
40°	4806.6	4797.1	4790.8	4876.0	5087.6	5232.9	5311.8	5378.2	5526.6	5874.0	6278.2
42.5°	4651.8	4642.3	4610.8	4632.9	4737.1	4980.2	5100.3	5172.9	5296.1	5532.9	6095.0
45°	4490.7	4475.0	4462.3	4440.2	4478.1	4613.9	4860.2	4967.6	5037.1	5248.7	5864.5
47.5°	4326.5	4304.4	4288.6	4269.7	4247.6	4310.7	4544.4	4737.1	4857.1	4989.7	5586.6
50°	4092.8	4121.3	4102.3	4080.2	4061.3	4048.6	4146.5	4462.3	4610.8	4718.1	5248.7
52.5°	1929.6	3751.8	3909.7	3887.6	3862.3	3840.2	3862.3	4102.3	4370.7	4456.0	4841.3
55°	1099.0	1670.6	3477.0	3676.0	3653.9	3622.3	3603.3	3685.4	4086.5	4200.2	4468.6
57.5°	1057.9	1061.1	1534.8	3312.8	3436.0	3407.5	3385.4	3404.4	3745.4	3938.1	4143.4
60°	1023.2	1023.2	1023.2	1465.3	3167.5	3177.0	3148.6	3117.0	3265.4	3644.4	3814.9
62.5°	947.4	966.4	975.8	975.8	1446.4	2933.8	2905.4	2895.9	2902.2	3290.7	3486.5
65°	849.5	893.7	912.7	925.3	925.3	1519.0	2655.9	2640.1	2618.0	2766.5	3154.9
67.5°	742.1	786.4	827.4	852.7	855.8	884.3	1585.3	2378.0	2346.4	2349.6	2801.2
70°	631.6	669.5	713.7	751.6	786.4	802.1	827.4	1973.8	2078.0	2033.8	2400.1
72.5°	546.3	562.1	593.7	631.6	672.7	710.6	732.7	786.4	1803.2	1755.9	1825.4
75°	454.8	467.4	489.5	514.8	546.3	590.6	628.5	666.3	956.9	1471.7	1462.2
77.5°	353.7	375.8	401.1	416.9	432.7	464.2	514.8	552.7	590.6	994.8	1171.6
80°	271.6	287.4	300.0	315.8	334.8	356.9	375.8	420.0	464.2	499.0	896.9
82.5°	202.1	211.6	221.1	227.4	233.7	246.3	281.1	296.9	325.3	356.9	423.2
85°	142.1	148.4	154.7	157.9	161.1	164.2	176.9	180.0	208.4	214.7	255.8
87.5°	91.6	94.7	101.1	104.2	104.2	107.4	110.5	110.5	110.5	104.2	126.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

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

**CANDELA DISTRIBUTION (continued):**

	357.5°	360°
0°	6890.9	6890.9
2.5°	6894.0	6944.6
5°	6884.5	6950.9
7.5°	6859.3	6922.4
10°	6821.4	6897.2
12.5°	6780.3	6853.0
15°	6745.6	6799.3
17.5°	6707.7	6739.3
20°	6657.2	6682.4
22.5°	6606.6	6594.0
25°	6549.8	6521.4
27.5°	6477.2	6423.5
30°	6410.8	6316.1
32.5°	6347.7	6192.9
35°	6262.4	6066.6
37.5°	6174.0	5937.1
40°	6069.8	5788.7
42.5°	5959.2	5640.3
45°	5820.3	5498.2
47.5°	5697.1	5327.6
50°	5526.6	5144.5
52.5°	5318.2	4973.9
55°	5071.8	4765.5
57.5°	4806.6	4547.6
60°	4522.3	4298.1
62.5°	4178.1	4039.1
65°	3773.9	3742.3
67.5°	3246.5	3413.9
70°	2662.2	3038.0
72.5°	2226.4	2640.1
75°	1825.4	2194.8
77.5°	1446.4	1721.1
80°	903.2	1260.1
82.5°	606.3	827.4
85°	366.3	394.8
87.5°	142.1	145.3
90°	0.0	0.0

(END OF REPORT)