

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-LD5-128SL-LN-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 (P33519)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNLED-LD5-128SL-LN-UNV-L950-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11315.0 lumens  
Efficiency: N/A  
Efficacy: 109.9 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

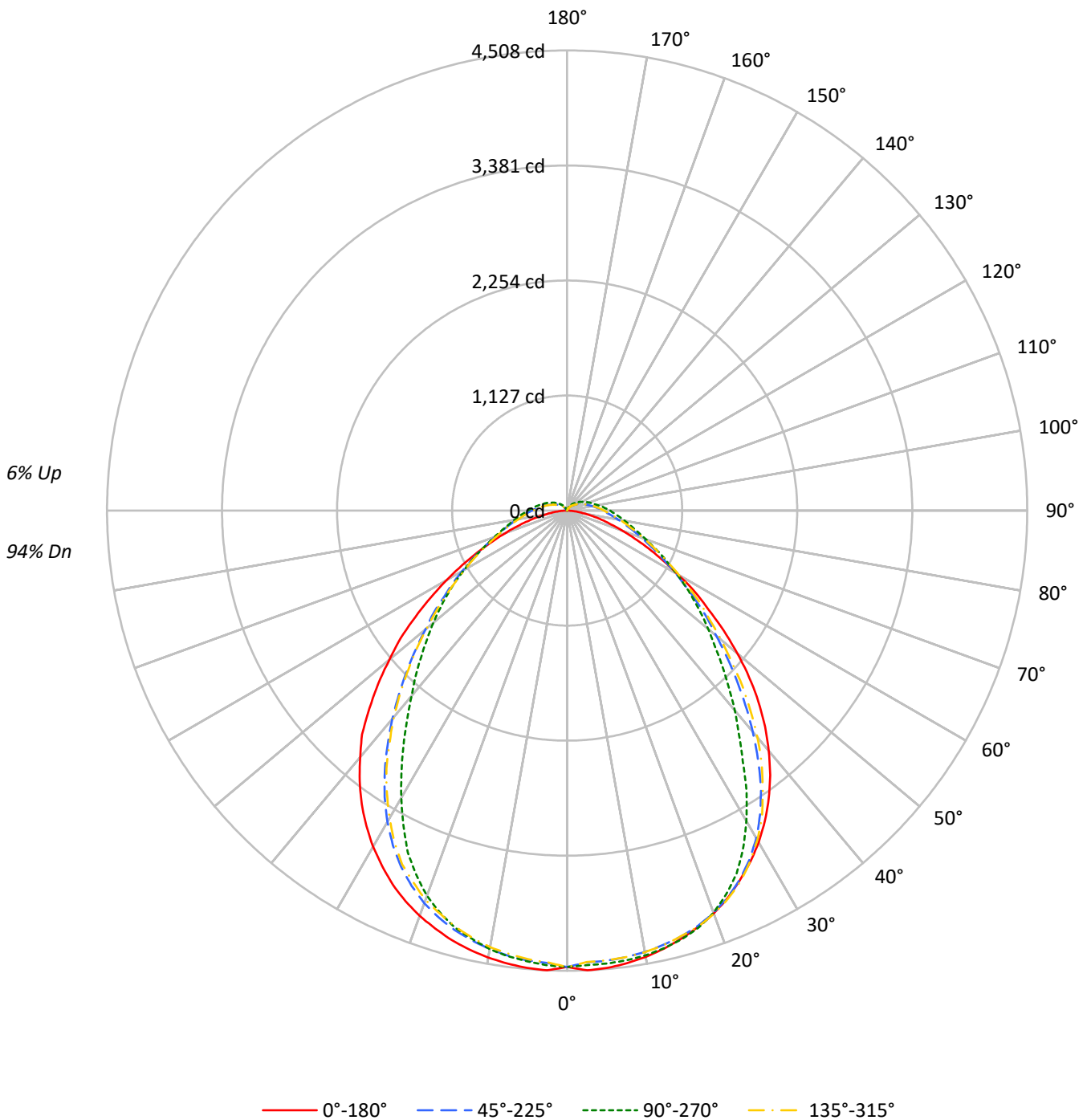
Input Watts (W): 103  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	18065	18065	18065	18065
5°	18219	17490	18219	17413
10°	18163	17025	18193	16789
15°	18071	16517	18153	16087
20°	17959	15862	18064	15193
25°	17699	14892	17895	14015
30°	17353	13467	17580	12467
35°	16799	11719	17123	10912
40°	15992	10249	16414	9510
45°	14916	8910	15400	8399
50°	13431	7829	14023	7434
55°	11659	6914	12507	6564
60°	9849	6070	10739	5721
65°	8122	5367	8941	4976
70°	6519	4763	7298	4405
75°	5188	4397	5840	4046
80°	3837	4243	4521	3877
85°	2513	4267	3387	3922



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	423.9	3.7
10°-20°	1215.4	10.7
20°-30°	1801.4	15.9
30°-40°	2001.2	17.7
40°-50°	1814.1	16.0
50°-60°	1405.7	12.4
60°-70°	954.6	8.4
70°-80°	607.3	5.4
80°-90°	388.3	3.4
90°-100°	261.8	2.3
100°-110°	179.3	1.6
110°-120°	119.6	1.1
120°-130°	74.4	0.7
130°-140°	41.1	0.4
140°-150°	19.3	0.2
150°-160°	7.1	0.1
160°-170°	0.4	0.0
170°-180°	0.0	0.0
0°-30°	3440.7	30.4
0°-40°	5441.9	48.1
0°-60°	8661.7	76.6
0°-90°	10611.9	93.8
90°-120°	560.7	5.0
90°-150°	695.6	6.1
90°-180°	703.0	6.2
0°-180°	11315.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	4471	4471	4471	4471	4471	
5°	4498	4454	4498	4434	4498	427
15°	4338	4346	4358	4232	4338	1224
25°	3999	3925	4043	3694	3999	1842
35°	3443	3000	3509	2794	3443	2148
45°	2651	2144	2737	2022	2651	2036
55°	1692	1508	1815	1431	1692	1523
65°	878	1013	966	940	878	880
75°	352	676	396	622	352	379
85°	64	487	86	448	64	77
90°	0	420	5	384	0	4
95°	2	359	0	334	2	2
105°	2	263	0	248	2	3
115°	2	199	0	184	2	2
125°	2	148	2	130	2	2
135°	2	103	2	84	2	2
145°	2	66	2	47	2	2
155°	2	37	2	17	2	2
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CATALOG NUMBER: 8SNLED-LD5-128SL-LN-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4471.0	4471.0	4471.0	4471.0	4471.0	4471.0	4471.0	4471.0	4471.0	4471.0	4471.0
2.5°	4507.9	4503.0	4498.1	4490.7	4498.1	4517.8	4505.5	4478.4	4473.5	4429.2	4448.9
5°	4498.1	4490.7	4485.8	4478.4	4488.2	4512.8	4500.5	4475.9	4468.6	4426.8	4448.9
7.5°	4473.5	4468.6	4461.2	4461.2	4471.0	4495.6	4485.8	4458.7	4453.8	4412.0	4436.6
10°	4439.1	4436.6	4431.7	4431.7	4441.5	4471.0	4458.7	4434.1	4429.2	4389.9	4416.9
12.5°	4394.8	4397.3	4389.9	4389.9	4404.6	4434.1	4424.3	4397.3	4392.3	4357.9	4385.0
15°	4338.2	4340.7	4335.8	4338.2	4353.0	4387.4	4375.1	4350.5	4345.6	4318.6	4340.7
17.5°	4274.3	4276.7	4276.7	4274.3	4291.5	4325.9	4316.1	4294.0	4286.6	4264.4	4291.5
20°	4200.5	4200.5	4200.5	4200.5	4220.2	4254.6	4242.3	4225.1	4210.3	4193.1	4215.3
22.5°	4109.5	4107.1	4109.5	4116.9	4136.6	4163.6	4156.2	4136.6	4114.4	4104.6	4121.8
25°	3998.8	4006.2	4008.7	4016.1	4040.6	4062.8	4055.4	4035.7	4001.3	3993.9	3998.8
27.5°	3883.3	3888.2	3895.6	3893.1	3927.5	3949.7	3934.9	3917.7	3868.5	3861.1	3856.2
30°	3752.9	3760.3	3765.2	3762.7	3789.8	3814.4	3799.6	3777.5	3711.1	3706.2	3666.8
32.5°	3605.4	3612.7	3617.6	3617.6	3657.0	3666.8	3639.8	3607.8	3536.5	3519.3	3484.8
35°	3443.0	3450.4	3452.9	3452.9	3492.2	3489.8	3455.3	3411.1	3332.4	3310.2	3251.2
37.5°	3268.4	3273.3	3275.8	3290.6	3307.8	3293.0	3248.8	3192.2	3133.2	3071.7	3007.7
40°	3071.7	3079.1	3084.0	3093.8	3111.0	3093.8	3029.9	2961.0	2897.1	2828.2	2764.3
42.5°	2870.0	2892.2	2887.2	2884.8	2894.6	2847.9	2798.7	2720.0	2656.1	2584.7	2520.8
45°	2651.1	2648.7	2661.0	2665.9	2663.4	2624.1	2555.2	2483.9	2420.0	2346.2	2292.1
47.5°	2420.0	2417.5	2427.3	2432.3	2417.5	2375.7	2321.6	2240.4	2186.3	2122.4	2080.6
50°	2176.5	2176.5	2191.2	2176.5	2169.1	2127.3	2083.0	2001.9	1960.1	1903.5	1878.9
52.5°	1933.0	1955.2	1940.4	1935.5	1928.1	1886.3	1851.9	1785.5	1751.0	1726.4	1696.9
55°	1692.0	1716.6	1706.8	1699.4	1696.9	1662.5	1630.5	1581.3	1559.2	1542.0	1524.8
57.5°	1487.9	1485.4	1480.5	1473.1	1475.6	1448.5	1416.6	1389.5	1379.7	1372.3	1377.2
60°	1251.8	1271.5	1264.1	1266.5	1269.0	1264.1	1237.0	1219.8	1222.3	1224.7	1232.1
62.5°	1057.5	1074.7	1087.0	1077.2	1082.1	1089.5	1074.7	1069.8	1079.6	1089.5	1099.3
65°	878.0	895.2	907.5	905.0	919.8	934.5	932.1	937.0	959.1	971.4	983.7
67.5°	715.7	732.9	750.1	752.5	774.7	796.8	806.7	823.9	848.5	865.7	880.4
70°	575.5	590.2	609.9	622.2	651.7	681.2	698.4	732.9	747.6	772.2	782.1
72.5°	450.1	462.4	489.4	518.9	543.5	580.4	614.8	644.3	666.5	693.5	705.8
75°	351.7	356.6	386.1	420.5	455.0	496.8	533.7	565.6	595.2	622.2	641.9
77.5°	258.2	265.6	292.7	339.4	378.7	423.0	464.8	499.2	531.2	558.3	585.3
80°	179.5	194.3	223.8	270.5	314.8	364.0	403.3	442.7	477.1	504.2	531.2
82.5°	115.6	127.9	169.7	216.4	263.1	312.3	354.1	393.5	430.4	459.9	484.5
85°	63.9	81.2	123.0	172.2	218.9	268.1	312.3	351.7	388.6	415.6	440.2
87.5°	24.6	49.2	88.5	135.3	182.0	228.7	275.4	312.3	349.2	378.7	400.9
90°	0.0	29.5	66.4	113.1	159.9	206.6	250.8	290.2	324.6	351.7	376.3
92.5°	2.5	19.7	51.6	91.0	135.3	179.5	221.3	260.7	295.1	322.2	344.3
95°	2.5	14.8	41.8	78.7	118.0	159.9	199.2	236.1	268.1	295.1	317.3
97.5°	2.5	9.8	34.4	68.9	103.3	145.1	182.0	216.4	245.9	273.0	290.2
100°	2.5	9.8	29.5	59.0	93.5	130.3	164.8	199.2	226.3	248.4	268.1
102.5°	2.5	7.4	24.6	51.6	83.6	115.6	150.0	182.0	206.6	228.7	248.4
105°	2.5	7.4	22.1	44.3	73.8	105.8	135.3	164.8	191.8	211.5	228.7
107.5°	2.5	4.9	19.7	36.9	63.9	95.9	125.4	150.0	174.6	194.3	211.5
110°	2.5	4.9	17.2	34.4	56.6	86.1	113.1	137.7	159.9	179.5	194.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-LN-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	2.5	4.9	14.8	32.0	51.6	76.2	103.3	125.4	147.6	164.8	179.5
115°	2.5	4.9	14.8	29.5	46.7	66.4	91.0	115.6	132.8	152.5	164.8
117.5°	2.5	4.9	12.3	24.6	44.3	61.5	83.6	103.3	123.0	140.2	152.5
120°	2.5	4.9	12.3	22.1	39.3	56.6	73.8	93.5	113.1	125.4	137.7
122.5°	2.5	4.9	9.8	22.1	34.4	51.6	66.4	83.6	100.8	115.6	127.9
125°	2.5	4.9	9.8	19.7	32.0	46.7	61.5	73.8	91.0	103.3	115.6
127.5°	2.5	4.9	9.8	17.2	29.5	41.8	56.6	68.9	81.2	93.5	103.3
130°	2.5	4.9	7.4	14.8	27.1	36.9	49.2	63.9	73.8	83.6	93.5
132.5°	2.5	4.9	7.4	14.8	22.1	32.0	44.3	56.6	66.4	76.2	83.6
135°	2.5	4.9	7.4	12.3	19.7	29.5	36.9	49.2	59.0	68.9	76.2
137.5°	2.5	4.9	7.4	12.3	17.2	24.6	32.0	41.8	51.6	59.0	68.9
140°	2.5	4.9	7.4	9.8	14.8	22.1	29.5	34.4	44.3	51.6	59.0
142.5°	2.5	4.9	7.4	9.8	14.8	19.7	24.6	29.5	36.9	44.3	51.6
145°	2.5	4.9	7.4	9.8	12.3	17.2	22.1	27.1	29.5	36.9	41.8
147.5°	2.5	4.9	7.4	9.8	9.8	14.8	19.7	22.1	27.1	29.5	34.4
150°	2.5	4.9	7.4	7.4	9.8	12.3	17.2	19.7	22.1	27.1	29.5
152.5°	2.5	4.9	7.4	7.4	9.8	12.3	14.8	17.2	19.7	22.1	24.6
155°	2.5	4.9	7.4	7.4	7.4	9.8	12.3	14.8	17.2	19.7	22.1
157.5°	4.9	4.9	4.9	7.4	7.4	9.8	9.8	12.3	14.8	14.8	17.2
160°	4.9	4.9	4.9	7.4	7.4	7.4	9.8	9.8	12.3	12.3	14.8
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°	4471.0	4471.0	4471.0	4471.0	4471.0	4471.0	4471.0	4471.0	4471.0	4471.0	4471.0
2.5°	4444.0	4451.4	4473.5	4473.5	4468.6	4463.7	4463.7	4456.3	4461.2	4471.0	4466.1
5°	4444.0	4451.4	4473.5	4473.5	4468.6	4463.7	4461.2	4453.8	4461.2	4471.0	4466.1
7.5°	4429.2	4439.1	4461.2	4461.2	4456.3	4453.8	4448.9	4444.0	4451.4	4461.2	4456.3
10°	4409.5	4419.4	4441.5	4441.5	4436.6	4436.6	4429.2	4424.3	4434.1	4441.5	4439.1
12.5°	4380.0	4392.3	4412.0	4409.5	4404.6	4407.1	4399.7	4389.9	4399.7	4407.1	4409.5
15°	4338.2	4353.0	4372.7	4367.7	4360.4	4365.3	4353.0	4345.6	4353.0	4367.7	4365.3
17.5°	4284.1	4294.0	4308.7	4308.7	4301.3	4296.4	4291.5	4284.1	4289.0	4298.9	4301.3
20°	4207.9	4220.2	4227.6	4220.2	4217.7	4210.3	4200.5	4193.1	4203.0	4217.7	4220.2
22.5°	4107.1	4109.5	4126.7	4109.5	4097.2	4094.8	4084.9	4070.2	4084.9	4097.2	4099.7
25°	3981.6	3993.9	3986.5	3957.0	3957.0	3937.4	3932.4	3925.1	3927.5	3949.7	3959.5
27.5°	3821.8	3826.7	3807.0	3782.4	3760.3	3748.0	3730.8	3733.2	3733.2	3762.7	3772.6
30°	3647.2	3620.1	3602.9	3563.5	3546.3	3516.8	3511.9	3511.9	3507.0	3521.7	3566.0
32.5°	3438.1	3401.2	3374.2	3337.3	3307.8	3278.3	3263.5	3270.9	3268.4	3305.3	3320.1
35°	3209.4	3187.3	3130.7	3084.0	3066.8	3022.5	3022.5	3000.4	3015.1	3056.9	3074.1
37.5°	2968.4	2934.0	2887.2	2835.6	2823.3	2788.9	2776.6	2764.3	2796.2	2803.6	2820.8
40°	2722.5	2690.5	2646.2	2597.0	2597.0	2555.2	2555.2	2555.2	2557.7	2572.4	2604.4
42.5°	2488.8	2454.4	2415.0	2380.6	2375.7	2343.7	2343.7	2341.3	2346.2	2358.5	2388.0
45°	2262.6	2235.5	2193.7	2176.5	2179.0	2144.5	2151.9	2144.5	2154.4	2166.7	2176.5
47.5°	2053.5	2036.3	2019.1	1994.5	1987.1	1984.7	1972.4	1962.5	1979.7	1979.7	1994.5
50°	1859.2	1849.4	1839.6	1824.8	1827.3	1817.4	1802.7	1802.7	1815.0	1817.4	1827.3
52.5°	1689.5	1677.3	1665.0	1667.4	1669.9	1665.0	1657.6	1650.2	1657.6	1662.5	1674.8
55°	1519.9	1510.0	1522.3	1517.4	1522.3	1517.4	1512.5	1507.6	1519.9	1512.5	1524.8
57.5°	1367.4	1377.2	1382.1	1372.3	1379.7	1374.8	1377.2	1369.8	1379.7	1384.6	1382.1
60°	1227.2	1242.0	1234.6	1237.0	1246.9	1242.0	1232.1	1239.5	1249.3	1251.8	1249.3
62.5°	1099.3	1116.5	1123.9	1119.0	1121.4	1116.5	1123.9	1114.1	1126.4	1131.3	1123.9
65°	983.7	1003.4	1008.3	1008.3	1008.3	1003.4	1010.8	1013.2	1018.2	1018.2	1013.2
67.5°	885.4	902.6	907.5	912.4	907.5	902.6	902.6	905.0	914.9	919.8	914.9
70°	796.8	814.0	816.5	816.5	819.0	823.9	814.0	819.0	826.3	828.8	826.3
72.5°	720.6	737.8	742.7	740.3	742.7	745.2	745.2	740.3	747.6	752.5	752.5
75°	659.1	668.9	673.9	673.9	676.3	678.8	678.8	676.3	681.2	683.7	686.1
77.5°	602.5	609.9	617.3	617.3	619.7	617.3	622.2	622.2	624.7	627.1	629.6
80°	546.0	555.8	560.7	563.2	568.1	570.6	570.6	570.6	573.0	575.5	575.5
82.5°	501.7	509.1	516.5	523.8	523.8	526.3	526.3	526.3	528.8	528.8	531.2
85°	457.4	467.3	474.6	479.6	482.0	484.5	484.5	486.9	486.9	486.9	489.4
87.5°	418.1	430.4	435.3	440.2	442.7	447.6	447.6	447.6	450.1	450.1	450.1
90°	391.0	403.3	408.2	413.2	415.6	418.1	418.1	420.5	420.5	423.0	423.0
92.5°	359.1	371.4	381.2	381.2	383.7	388.6	386.1	386.1	388.6	391.0	391.0
95°	334.5	344.3	351.7	354.1	356.6	356.6	356.6	359.1	356.6	359.1	359.1
97.5°	305.0	314.8	322.2	327.1	329.5	329.5	329.5	332.0	329.5	332.0	332.0
100°	280.4	290.2	297.6	300.0	305.0	305.0	305.0	305.0	305.0	305.0	307.4
102.5°	260.7	270.5	275.4	277.9	280.4	282.8	282.8	282.8	282.8	285.3	285.3
105°	241.0	250.8	255.8	258.2	260.7	263.1	263.1	263.1	265.6	265.6	263.1
107.5°	223.8	231.2	236.1	241.0	243.5	243.5	245.9	245.9	245.9	245.9	245.9
110°	206.6	214.0	221.3	226.3	226.3	228.7	228.7	231.2	231.2	228.7	231.2





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-LN-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	189.4	199.2	204.1	209.0	211.5	214.0	214.0	214.0	214.0	214.0	214.0
115°	174.6	184.4	189.4	194.3	196.7	199.2	199.2	199.2	199.2	199.2	199.2
117.5°	162.3	172.2	177.1	179.5	182.0	184.4	186.9	186.9	186.9	186.9	184.4
120°	150.0	157.4	162.3	167.2	169.7	172.2	172.2	172.2	172.2	172.2	172.2
122.5°	137.7	145.1	150.0	154.9	157.4	159.9	159.9	159.9	159.9	159.9	159.9
125°	125.4	132.8	137.7	142.6	145.1	147.6	147.6	147.6	147.6	147.6	147.6
127.5°	113.1	120.5	127.9	130.3	132.8	135.3	135.3	135.3	137.7	135.3	135.3
130°	100.8	108.2	115.6	118.0	120.5	123.0	125.4	125.4	125.4	125.4	123.0
132.5°	91.0	98.4	103.3	105.8	110.7	110.7	113.1	113.1	113.1	113.1	110.7
135°	83.6	88.5	93.5	95.9	100.8	100.8	100.8	103.3	103.3	100.8	98.4
137.5°	73.8	78.7	83.6	86.1	88.5	91.0	91.0	93.5	91.0	91.0	91.0
140°	68.9	71.3	76.2	78.7	81.2	81.2	81.2	83.6	83.6	81.2	81.2
142.5°	59.0	63.9	68.9	71.3	73.8	73.8	73.8	73.8	73.8	73.8	73.8
145°	49.2	56.6	59.0	63.9	63.9	66.4	66.4	66.4	66.4	66.4	63.9
147.5°	41.8	46.7	54.1	56.6	56.6	59.0	59.0	59.0	59.0	59.0	56.6
150°	32.0	36.9	44.3	49.2	49.2	51.6	51.6	51.6	51.6	49.2	49.2
152.5°	27.1	32.0	34.4	39.3	41.8	41.8	41.8	44.3	41.8	41.8	41.8
155°	24.6	27.1	29.5	32.0	34.4	36.9	36.9	36.9	36.9	34.4	34.4
157.5°	19.7	22.1	24.6	27.1	29.5	32.0	32.0	32.0	32.0	32.0	29.5
160°	14.8	17.2	19.7	19.7	22.1	24.6	27.1	24.6	24.6	24.6	24.6
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-LD5-128SL-LN-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	4471.0	4471.0	4471.0	4471.0	4471.0	4471.0	4471.0	4471.0	4471.0	4471.0	4471.0
2.5°	4461.2	4458.7	4466.1	4453.8	4416.9	4426.8	4421.8	4444.0	4448.9	4453.8	4475.9
5°	4461.2	4458.7	4463.7	4453.8	4414.5	4421.8	4416.9	4439.1	4444.0	4446.4	4468.6
7.5°	4451.4	4448.9	4456.3	4444.0	4402.2	4412.0	4404.6	4426.8	4429.2	4431.7	4451.4
10°	4431.7	4429.2	4434.1	4424.3	4382.5	4392.3	4382.5	4404.6	4404.6	4409.5	4424.3
12.5°	4402.2	4397.3	4407.1	4394.8	4348.1	4360.4	4355.4	4370.2	4372.7	4375.1	4389.9
15°	4360.4	4355.4	4362.8	4355.4	4313.6	4316.1	4308.7	4330.8	4333.3	4328.4	4343.1
17.5°	4298.9	4294.0	4308.7	4303.8	4262.0	4271.8	4269.4	4274.3	4281.7	4269.4	4289.0
20°	4222.6	4227.6	4232.5	4234.9	4203.0	4203.0	4200.5	4210.3	4217.7	4207.9	4222.6
22.5°	4109.5	4121.8	4136.6	4141.5	4119.3	4116.9	4131.6	4126.7	4134.1	4129.2	4139.0
25°	3966.9	3991.5	4006.2	4021.0	4008.7	4013.6	4035.7	4040.6	4040.6	4038.2	4048.0
27.5°	3789.8	3821.8	3848.8	3880.8	3868.5	3878.3	3915.2	3920.1	3930.0	3920.1	3939.8
30°	3578.3	3607.8	3659.5	3706.2	3711.1	3725.9	3777.5	3782.4	3809.5	3799.6	3807.0
32.5°	3366.8	3381.6	3440.6	3487.3	3516.8	3553.7	3610.3	3620.1	3657.0	3664.4	3664.4
35°	3101.2	3143.0	3197.1	3263.5	3300.4	3339.7	3416.0	3430.7	3484.8	3502.1	3521.7
37.5°	2877.4	2916.7	2951.2	3020.0	3086.4	3130.7	3192.2	3229.1	3285.6	3317.6	3342.2
40°	2638.8	2670.8	2707.7	2776.6	2833.1	2899.5	2961.0	3005.3	3076.6	3113.5	3145.5
42.5°	2412.6	2437.2	2476.5	2525.7	2584.7	2658.5	2717.5	2769.2	2845.4	2897.1	2934.0
45°	2210.9	2225.7	2260.1	2297.0	2348.6	2424.9	2481.4	2547.8	2609.3	2663.4	2707.7
47.5°	2021.6	2041.2	2058.4	2083.0	2129.8	2176.5	2242.9	2306.8	2368.3	2427.3	2471.6
50°	1846.9	1846.9	1874.0	1891.2	1923.2	1965.0	2016.6	2060.9	2137.1	2179.0	2235.5
52.5°	1677.3	1687.1	1701.8	1711.7	1736.3	1763.3	1805.1	1842.0	1906.0	1945.3	1999.4
55°	1527.2	1537.1	1544.4	1549.4	1564.1	1596.1	1610.8	1640.4	1684.6	1716.6	1763.3
57.5°	1384.6	1389.5	1396.9	1399.3	1401.8	1421.5	1433.8	1441.2	1485.4	1517.4	1556.7
60°	1254.2	1254.2	1261.6	1259.2	1256.7	1266.5	1264.1	1271.5	1298.5	1318.2	1335.4
62.5°	1131.3	1131.3	1133.7	1128.8	1126.4	1126.4	1116.5	1123.9	1131.3	1133.7	1146.0
65°	1018.2	1030.5	1020.6	1023.1	1008.3	1003.4	998.5	983.7	981.3	971.4	976.3
67.5°	917.3	927.2	917.3	917.3	905.0	895.2	882.9	858.3	850.9	831.2	826.3
70°	836.2	828.8	833.7	826.3	811.6	799.3	782.1	762.4	737.8	713.2	696.0
72.5°	757.5	757.5	752.5	745.2	737.8	713.2	693.5	671.4	641.9	609.9	585.3
75°	681.2	683.7	683.7	676.3	664.0	641.9	619.7	587.8	555.8	518.9	486.9
77.5°	627.1	627.1	627.1	614.8	602.5	582.9	555.8	521.4	486.9	442.7	405.8
80°	575.5	573.0	573.0	558.3	546.0	523.8	496.8	462.4	425.5	378.7	336.9
82.5°	533.7	531.2	526.3	514.0	496.8	474.6	447.6	410.7	371.4	329.5	277.9
85°	489.4	486.9	482.0	469.7	452.5	432.8	403.3	366.4	327.1	280.4	231.2
87.5°	450.1	447.6	440.2	432.8	413.2	391.0	361.5	327.1	285.3	241.0	191.8
90°	423.0	418.1	413.2	403.3	386.1	361.5	332.0	295.1	253.3	209.0	159.9
92.5°	391.0	388.6	381.2	371.4	356.6	332.0	302.5	268.1	226.3	184.4	137.7
95°	359.1	356.6	351.7	341.8	327.1	305.0	277.9	243.5	204.1	162.3	120.5
97.5°	329.5	329.5	322.2	314.8	297.6	280.4	253.3	221.3	184.4	147.6	108.2
100°	305.0	305.0	297.6	287.7	275.4	258.2	231.2	201.7	167.2	132.8	93.5
102.5°	282.8	280.4	275.4	265.6	253.3	236.1	211.5	184.4	152.5	118.0	83.6
105°	263.1	260.7	255.8	245.9	236.1	216.4	196.7	169.7	137.7	105.8	73.8
107.5°	243.5	241.0	238.6	228.7	216.4	199.2	179.5	152.5	125.4	95.9	66.4
110°	226.3	223.8	218.9	209.0	196.7	182.0	162.3	140.2	113.1	86.1	59.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-LN-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	211.5	209.0	204.1	194.3	184.4	167.2	150.0	125.4	103.3	78.7	51.6
115°	196.7	194.3	189.4	179.5	167.2	152.5	135.3	115.6	91.0	68.9	46.7
117.5°	182.0	179.5	174.6	167.2	154.9	140.2	123.0	103.3	81.2	63.9	41.8
120°	169.7	164.8	159.9	152.5	140.2	127.9	110.7	93.5	73.8	56.6	36.9
122.5°	157.4	152.5	147.6	140.2	127.9	115.6	98.4	83.6	68.9	51.6	34.4
125°	142.6	140.2	135.3	127.9	115.6	103.3	91.0	76.2	61.5	46.7	29.5
127.5°	130.3	127.9	123.0	113.1	103.3	93.5	81.2	68.9	54.1	39.3	27.1
130°	120.5	115.6	110.7	103.3	95.9	86.1	73.8	61.5	49.2	34.4	24.6
132.5°	108.2	103.3	98.4	93.5	86.1	76.2	66.4	54.1	44.3	32.0	22.1
135°	98.4	93.5	88.5	83.6	76.2	68.9	59.0	49.2	39.3	29.5	19.7
137.5°	86.1	83.6	81.2	76.2	68.9	61.5	54.1	41.8	34.4	27.1	17.2
140°	78.7	76.2	73.8	66.4	61.5	54.1	46.7	36.9	29.5	22.1	14.8
142.5°	71.3	68.9	63.9	59.0	54.1	49.2	39.3	34.4	27.1	19.7	14.8
145°	61.5	59.0	56.6	51.6	46.7	39.3	34.4	29.5	24.6	17.2	12.3
147.5°	56.6	54.1	49.2	44.3	39.3	34.4	32.0	27.1	19.7	14.8	9.8
150°	46.7	44.3	41.8	36.9	34.4	32.0	27.1	22.1	17.2	12.3	9.8
152.5°	39.3	36.9	34.4	34.4	29.5	27.1	22.1	19.7	14.8	12.3	7.4
155°	34.4	34.4	32.0	29.5	24.6	22.1	19.7	14.8	12.3	9.8	7.4
157.5°	29.5	27.1	24.6	24.6	22.1	19.7	14.8	12.3	9.8	9.8	7.4
160°	24.6	22.1	22.1	19.7	17.2	14.8	12.3	12.3	9.8	7.4	7.4
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-LD5-128SL-LN-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4471.0	4471.0	4471.0	4471.0	4471.0	4471.0	4471.0	4471.0	4471.0	4471.0	4471.0
2.5°	4478.4	4451.4	4475.9	4507.9	4507.9	4503.0	4498.1	4507.9	4532.5	4522.7	4493.2
5°	4471.0	4444.0	4466.1	4498.1	4498.1	4490.7	4485.8	4493.2	4520.2	4507.9	4480.9
7.5°	4456.3	4431.7	4446.4	4475.9	4475.9	4468.6	4463.7	4473.5	4495.6	4483.3	4453.8
10°	4429.2	4402.2	4419.4	4446.4	4444.0	4439.1	4431.7	4444.0	4463.7	4446.4	4412.0
12.5°	4394.8	4367.7	4382.5	4407.1	4404.6	4394.8	4389.9	4397.3	4414.5	4404.6	4367.7
15°	4348.1	4321.0	4333.3	4357.9	4350.5	4343.1	4333.3	4335.8	4357.9	4340.7	4301.3
17.5°	4291.5	4262.0	4271.8	4294.0	4286.6	4279.2	4266.9	4269.4	4294.0	4269.4	4227.6
20°	4222.6	4190.7	4198.0	4225.1	4212.8	4200.5	4188.2	4188.2	4212.8	4185.7	4139.0
22.5°	4148.9	4116.9	4121.8	4141.5	4131.6	4109.5	4097.2	4104.6	4116.9	4082.5	4033.3
25°	4057.9	4016.1	4023.4	4043.1	4035.7	4006.2	3993.9	3998.8	3993.9	3966.9	3915.2
27.5°	3952.1	3907.8	3912.8	3925.1	3915.2	3888.2	3873.4	3875.9	3866.0	3831.6	3772.6
30°	3819.3	3797.2	3794.7	3802.1	3787.3	3760.3	3743.1	3738.2	3735.7	3686.5	3615.2
32.5°	3684.0	3664.4	3652.1	3661.9	3644.7	3617.6	3588.1	3588.1	3563.5	3516.8	3455.3
35°	3546.3	3514.4	3502.1	3509.4	3489.8	3455.3	3430.7	3418.4	3381.6	3322.5	3256.1
37.5°	3369.3	3347.1	3332.4	3339.7	3317.6	3293.0	3246.3	3234.0	3194.6	3113.5	3029.9
40°	3177.4	3160.2	3145.5	3152.8	3128.2	3091.4	3049.5	3029.9	2985.6	2894.6	2828.2
42.5°	2970.8	2963.5	2946.3	2973.3	2924.1	2887.2	2845.4	2813.5	2769.2	2670.8	2594.6
45°	2752.0	2769.2	2729.8	2737.2	2705.2	2673.3	2629.0	2582.3	2538.0	2444.6	2358.5
47.5°	2520.8	2533.1	2506.0	2511.0	2476.5	2447.0	2407.7	2348.6	2299.5	2218.3	2142.1
50°	2282.2	2277.3	2277.3	2272.4	2245.4	2208.5	2169.1	2115.0	2065.8	1992.0	1928.1
52.5°	2028.9	2038.8	2043.7	2056.0	2021.6	1999.4	1937.9	1891.2	1854.3	1778.1	1724.0
55°	1785.5	1819.9	1810.1	1815.0	1775.6	1758.4	1709.2	1672.3	1618.2	1574.0	1539.5
57.5°	1564.1	1571.5	1576.4	1583.8	1566.6	1532.2	1492.8	1463.3	1421.5	1384.6	1360.0
60°	1350.2	1350.2	1352.6	1364.9	1347.7	1318.2	1288.7	1266.5	1237.0	1214.9	1200.1
62.5°	1148.5	1165.7	1168.2	1158.3	1136.2	1121.4	1101.8	1089.5	1069.8	1062.4	1057.5
65°	961.6	961.6	961.6	966.5	954.2	944.4	932.1	929.6	937.0	927.2	932.1
67.5°	804.2	796.8	791.9	794.4	789.4	784.5	782.1	789.4	804.2	804.2	816.5
70°	668.9	654.2	644.3	644.3	644.3	646.8	654.2	668.9	693.5	703.4	720.6
72.5°	558.3	526.3	511.5	511.5	514.0	523.8	546.0	573.0	595.2	614.8	637.0
75°	452.5	420.5	398.4	395.9	400.9	415.6	447.6	472.2	509.1	536.1	563.2
77.5°	366.4	327.1	300.0	297.6	305.0	327.1	366.4	398.4	440.2	469.7	499.2
80°	292.7	248.4	226.3	211.5	223.8	250.8	295.1	334.5	373.8	413.2	450.1
82.5°	233.6	191.8	157.4	142.6	157.4	194.3	236.1	282.8	322.2	364.0	400.9
85°	184.4	140.2	100.8	86.1	103.3	142.6	189.4	236.1	280.4	322.2	359.1
87.5°	145.1	100.8	61.5	41.8	63.9	105.8	150.0	196.7	243.5	285.3	322.2
90°	113.1	71.3	34.4	4.9	36.9	76.2	120.5	164.8	211.5	253.3	290.2
92.5°	95.9	54.1	19.7	0.0	22.1	56.6	98.4	142.6	184.4	226.3	263.1
95°	81.2	44.3	14.8	0.0	14.8	44.3	81.2	120.5	162.3	204.1	241.0
97.5°	68.9	34.4	9.8	0.0	9.8	34.4	66.4	105.8	142.6	182.0	216.4
100°	59.0	29.5	7.4	0.0	7.4	27.1	56.6	91.0	127.9	164.8	196.7
102.5°	51.6	24.6	4.9	0.0	4.9	22.1	46.7	78.7	110.7	145.1	177.1
105°	44.3	19.7	4.9	0.0	2.5	17.2	39.3	68.9	98.4	130.3	159.9
107.5°	39.3	17.2	4.9	0.0	2.5	14.8	34.4	59.0	88.5	115.6	142.6
110°	34.4	14.8	4.9	0.0	2.5	9.8	29.5	51.6	76.2	103.3	130.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-LN-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	29.5	12.3	2.5	0.0	0.0	7.4	24.6	44.3	66.4	93.5	115.6
115°	27.1	12.3	2.5	0.0	0.0	4.9	19.7	39.3	59.0	83.6	103.3
117.5°	24.6	9.8	2.5	0.0	2.5	4.9	17.2	34.4	51.6	71.3	93.5
120°	22.1	9.8	2.5	0.0	2.5	2.5	12.3	29.5	44.3	63.9	81.2
122.5°	19.7	9.8	2.5	0.0	2.5	2.5	9.8	24.6	39.3	56.6	71.3
125°	17.2	7.4	4.9	2.5	2.5	2.5	7.4	19.7	34.4	46.7	63.9
127.5°	17.2	7.4	4.9	2.5	2.5	2.5	4.9	17.2	27.1	41.8	56.6
130°	14.8	7.4	4.9	2.5	2.5	2.5	2.5	12.3	24.6	34.4	46.7
132.5°	12.3	7.4	4.9	2.5	2.5	2.5	2.5	7.4	17.2	29.5	39.3
135°	12.3	7.4	4.9	2.5	2.5	2.5	2.5	4.9	12.3	22.1	32.0
137.5°	9.8	4.9	4.9	2.5	2.5	2.5	2.5	2.5	9.8	17.2	24.6
140°	9.8	4.9	4.9	2.5	2.5	2.5	2.5	2.5	7.4	12.3	19.7
142.5°	7.4	4.9	4.9	2.5	2.5	2.5	2.5	2.5	4.9	9.8	14.8
145°	7.4	4.9	4.9	2.5	2.5	2.5	2.5	2.5	2.5	4.9	9.8
147.5°	7.4	7.4	4.9	2.5	2.5	2.5	2.5	2.5	2.5	4.9	7.4
150°	7.4	4.9	4.9	2.5	2.5	2.5	2.5	2.5	2.5	2.5	4.9
152.5°	7.4	4.9	4.9	2.5	2.5	2.5	2.5	2.5	2.5	2.5	4.9
155°	7.4	4.9	4.9	2.5	2.5	2.5	2.5	2.5	2.5	4.9	4.9
157.5°	7.4	4.9	4.9	2.5	2.5	2.5	2.5	2.5	2.5	2.5	4.9
160°	7.4	4.9	4.9	2.5	4.9	2.5	4.9	4.9	4.9	4.9	4.9
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-LD5-128SL-LN-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4471.0	4471.0	4471.0	4471.0	4471.0	4471.0	4471.0	4471.0	4471.0	4471.0	4471.0
2.5°	4483.3	4436.6	4461.2	4453.8	4463.7	4483.3	4480.9	4475.9	4475.9	4468.6	4458.7
5°	4468.6	4424.3	4446.4	4434.1	4446.4	4463.7	4461.2	4453.8	4458.7	4446.4	4434.1
7.5°	4439.1	4399.7	4419.4	4409.5	4419.4	4436.6	4429.2	4426.8	4431.7	4412.0	4404.6
10°	4404.6	4360.4	4382.5	4370.2	4382.5	4394.8	4389.9	4380.0	4389.9	4370.2	4362.8
12.5°	4350.5	4313.6	4328.4	4323.5	4330.8	4343.1	4333.3	4325.9	4330.8	4313.6	4298.9
15°	4291.5	4254.6	4266.9	4259.5	4264.4	4279.2	4262.0	4259.5	4254.6	4237.4	4232.5
17.5°	4215.3	4180.8	4193.1	4180.8	4188.2	4183.3	4180.8	4168.5	4168.5	4148.9	4134.1
20°	4121.8	4092.3	4084.9	4075.1	4084.9	4075.1	4060.3	4050.5	4048.0	4028.4	4016.1
22.5°	4013.6	3979.2	3984.1	3957.0	3959.5	3944.7	3920.1	3910.3	3900.5	3878.3	3861.1
25°	3883.3	3848.8	3824.2	3807.0	3784.9	3782.4	3750.5	3725.9	3723.4	3696.3	3693.9
27.5°	3735.7	3696.3	3676.7	3634.9	3607.8	3585.7	3558.6	3534.0	3521.7	3492.2	3472.5
30°	3566.0	3521.7	3472.5	3443.0	3401.2	3384.0	3337.3	3307.8	3297.9	3266.0	3251.2
32.5°	3374.2	3327.4	3288.1	3231.5	3184.8	3160.2	3113.5	3084.0	3071.7	3037.3	3017.6
35°	3165.1	3113.5	3066.8	3012.7	2975.8	2934.0	2877.4	2847.9	2820.8	2808.5	2793.8
37.5°	2946.3	2889.7	2835.6	2781.5	2749.5	2700.3	2651.1	2631.5	2599.5	2587.2	2572.4
40°	2720.0	2663.4	2611.8	2560.1	2523.3	2479.0	2434.7	2427.3	2392.9	2380.6	2370.8
42.5°	2496.2	2437.2	2378.2	2341.3	2314.2	2269.9	2240.4	2233.1	2203.5	2196.2	2196.2
45°	2294.5	2220.8	2171.6	2139.6	2117.5	2080.6	2056.0	2051.1	2026.5	2021.6	2021.6
47.5°	2078.1	2009.3	1972.4	1952.7	1933.0	1906.0	1891.2	1891.2	1866.6	1861.7	1859.2
50°	1876.5	1812.5	1785.5	1765.8	1763.3	1743.7	1731.4	1726.4	1726.4	1709.2	1711.7
52.5°	1684.6	1652.7	1630.5	1618.2	1603.5	1591.2	1581.3	1581.3	1574.0	1561.7	1566.6
55°	1507.6	1470.7	1473.1	1463.3	1455.9	1448.5	1451.0	1436.2	1433.8	1423.9	1431.3
57.5°	1330.5	1330.5	1325.6	1318.2	1305.9	1310.8	1310.8	1310.8	1298.5	1291.1	1298.5
60°	1180.5	1187.8	1175.6	1182.9	1178.0	1180.5	1175.6	1175.6	1168.2	1165.7	1168.2
62.5°	1047.7	1060.0	1055.0	1064.9	1060.0	1062.4	1067.3	1057.5	1052.6	1047.7	1052.6
65°	929.6	944.4	941.9	949.3	951.8	954.2	956.7	951.8	946.8	941.9	939.5
67.5°	826.3	841.1	850.9	853.4	855.8	863.2	860.8	855.8	850.9	843.5	841.1
70°	732.9	752.5	764.8	769.8	779.6	774.7	774.7	772.2	767.3	759.9	757.5
72.5°	654.2	676.3	688.6	693.5	703.4	703.4	700.9	698.4	693.5	686.1	683.7
75°	585.3	605.0	622.2	632.0	639.4	639.4	637.0	634.5	629.6	624.7	622.2
77.5°	531.2	548.4	563.2	575.5	580.4	582.9	580.4	575.5	575.5	573.0	570.6
80°	477.1	496.8	511.5	523.8	531.2	531.2	528.8	531.2	526.3	523.8	521.4
82.5°	430.4	452.5	469.7	482.0	486.9	489.4	486.9	489.4	484.5	484.5	484.5
85°	388.6	410.7	430.4	440.2	447.6	450.1	450.1	450.1	447.6	447.6	447.6
87.5°	354.1	376.3	395.9	405.8	413.2	415.6	415.6	418.1	413.2	413.2	413.2
90°	322.2	344.3	364.0	373.8	381.2	386.1	386.1	388.6	386.1	383.7	383.7
92.5°	292.7	317.3	336.9	346.8	354.1	361.5	361.5	364.0	359.1	359.1	359.1
95°	268.1	292.7	309.9	322.2	329.5	334.5	336.9	336.9	334.5	334.5	334.5
97.5°	245.9	268.1	285.3	297.6	305.0	307.4	309.9	312.3	309.9	309.9	309.9
100°	223.8	245.9	263.1	273.0	282.8	285.3	287.7	290.2	290.2	287.7	287.7
102.5°	204.1	226.3	241.0	253.3	260.7	265.6	268.1	268.1	268.1	268.1	268.1
105°	184.4	206.6	221.3	233.6	241.0	245.9	248.4	250.8	250.8	248.4	248.4
107.5°	167.2	186.9	204.1	214.0	223.8	228.7	231.2	231.2	233.6	231.2	231.2
110°	150.0	172.2	186.9	196.7	206.6	211.5	214.0	216.4	216.4	216.4	216.4



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-LN-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	137.7	154.9	169.7	179.5	189.4	194.3	196.7	199.2	201.7	199.2	199.2
115°	123.0	140.2	154.9	164.8	172.2	177.1	182.0	184.4	184.4	186.9	184.4
117.5°	110.7	125.4	140.2	150.0	157.4	164.8	167.2	169.7	172.2	169.7	169.7
120°	98.4	113.1	125.4	135.3	142.6	150.0	152.5	154.9	157.4	154.9	154.9
122.5°	88.5	100.8	113.1	123.0	130.3	135.3	140.2	140.2	142.6	142.6	142.6
125°	78.7	91.0	100.8	110.7	118.0	123.0	125.4	127.9	127.9	130.3	130.3
127.5°	68.9	78.7	91.0	98.4	105.8	110.7	113.1	115.6	115.6	118.0	118.0
130°	59.0	68.9	78.7	86.1	93.5	98.4	100.8	103.3	105.8	105.8	105.8
132.5°	51.6	61.5	68.9	76.2	81.2	86.1	91.0	93.5	93.5	93.5	93.5
135°	41.8	51.6	59.0	66.4	71.3	76.2	78.7	83.6	83.6	83.6	83.6
137.5°	34.4	44.3	51.6	56.6	61.5	66.4	68.9	71.3	73.8	73.8	73.8
140°	27.1	34.4	41.8	49.2	54.1	56.6	61.5	61.5	63.9	63.9	63.9
142.5°	19.7	27.1	32.0	39.3	44.3	49.2	51.6	54.1	54.1	54.1	54.1
145°	14.8	19.7	24.6	29.5	36.9	39.3	41.8	44.3	46.7	46.7	46.7
147.5°	9.8	14.8	17.2	22.1	27.1	32.0	34.4	36.9	39.3	39.3	39.3
150°	7.4	9.8	14.8	17.2	19.7	24.6	29.5	29.5	32.0	32.0	29.5
152.5°	4.9	7.4	9.8	12.3	14.8	17.2	22.1	22.1	24.6	24.6	24.6
155°	4.9	4.9	4.9	7.4	9.8	12.3	14.8	17.2	17.2	17.2	17.2
157.5°	4.9	4.9	4.9	4.9	4.9	7.4	9.8	12.3	12.3	12.3	12.3
160°	4.9	4.9	2.5	2.5	4.9	4.9	4.9	4.9	7.4	7.4	7.4
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-LD5-128SL-LN-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4471.0	4471.0	4471.0	4471.0	4471.0	4471.0	4471.0	4471.0	4471.0	4471.0	4471.0
2.5°	4466.1	4471.0	4471.0	4466.1	4463.7	4473.5	4461.2	4414.5	4429.2	4434.1	4448.9
5°	4444.0	4448.9	4448.9	4448.9	4444.0	4453.8	4441.5	4394.8	4412.0	4419.4	4429.2
7.5°	4412.0	4414.5	4419.4	4416.9	4412.0	4426.8	4414.5	4367.7	4380.0	4392.3	4404.6
10°	4370.2	4370.2	4372.7	4377.6	4372.7	4385.0	4372.7	4330.8	4343.1	4350.5	4365.3
12.5°	4313.6	4318.6	4321.0	4318.6	4316.1	4325.9	4321.0	4281.7	4286.6	4301.3	4316.1
15°	4237.4	4237.4	4249.7	4244.8	4244.8	4254.6	4259.5	4215.3	4222.6	4244.8	4259.5
17.5°	4143.9	4146.4	4156.2	4161.2	4158.7	4175.9	4178.4	4143.9	4141.5	4168.5	4183.3
20°	4023.4	4028.4	4040.6	4050.5	4050.5	4070.2	4077.5	4055.4	4057.9	4087.4	4092.3
22.5°	3875.9	3875.9	3898.0	3912.8	3925.1	3937.4	3959.5	3939.8	3939.8	3979.2	4001.3
25°	3693.9	3711.1	3718.5	3748.0	3765.2	3799.6	3819.3	3821.8	3824.2	3861.1	3875.9
27.5°	3492.2	3497.1	3519.3	3553.7	3573.4	3605.4	3642.2	3649.6	3661.9	3711.1	3733.2
30°	3263.5	3278.3	3288.1	3337.3	3364.3	3406.1	3452.9	3470.1	3479.9	3546.3	3573.4
32.5°	3029.9	3034.8	3076.6	3103.7	3135.6	3179.9	3234.0	3266.0	3285.6	3354.5	3393.9
35°	2796.2	2806.1	2840.5	2874.9	2906.9	2951.2	3007.7	3052.0	3086.4	3147.9	3199.6
37.5°	2582.3	2606.9	2614.2	2648.7	2673.3	2717.5	2756.9	2820.8	2855.3	2919.2	2985.6
40°	2390.5	2397.8	2402.7	2437.2	2454.4	2496.2	2552.8	2594.6	2641.3	2688.0	2766.7
42.5°	2201.1	2206.0	2213.4	2233.1	2252.7	2282.2	2324.1	2365.9	2415.0	2483.9	2535.6
45°	2026.5	2031.4	2036.3	2048.6	2065.8	2092.9	2119.9	2149.4	2198.6	2257.6	2311.8
47.5°	1864.2	1874.0	1874.0	1876.5	1888.8	1910.9	1930.6	1967.4	1994.5	2026.5	2088.0
50°	1709.2	1716.6	1719.1	1719.1	1726.4	1741.2	1746.1	1770.7	1795.3	1824.8	1869.1
52.5°	1564.1	1564.1	1561.7	1571.5	1571.5	1581.3	1583.8	1598.6	1615.8	1647.7	1667.4
55°	1426.4	1426.4	1433.8	1428.9	1428.9	1433.8	1431.3	1433.8	1448.5	1468.2	1485.4
57.5°	1293.6	1291.1	1298.5	1293.6	1291.1	1296.1	1301.0	1291.1	1293.6	1313.3	1313.3
60°	1160.8	1163.3	1170.6	1165.7	1165.7	1165.7	1160.8	1155.9	1151.0	1163.3	1168.2
62.5°	1055.0	1047.7	1055.0	1047.7	1052.6	1050.1	1045.2	1035.4	1037.8	1032.9	1028.0
65°	944.4	944.4	946.8	939.5	944.4	944.4	937.0	934.5	919.8	914.9	902.6
67.5°	848.5	848.5	850.9	846.0	846.0	848.5	841.1	833.7	819.0	811.6	794.4
70°	764.8	764.8	764.8	762.4	762.4	762.4	757.5	747.6	732.9	720.6	698.4
72.5°	688.6	691.1	688.6	688.6	696.0	688.6	681.2	671.4	659.1	634.5	614.8
75°	627.1	629.6	627.1	627.1	627.1	624.7	622.2	607.5	592.7	573.0	543.5
77.5°	573.0	573.0	575.5	573.0	573.0	570.6	563.2	550.9	533.7	516.5	482.0
80°	521.4	523.8	526.3	528.8	523.8	521.4	514.0	504.2	482.0	462.4	427.9
82.5°	484.5	482.0	484.5	486.9	482.0	479.6	472.2	459.9	442.7	415.6	381.2
85°	447.6	445.1	445.1	447.6	445.1	440.2	432.8	420.5	403.3	376.3	341.8
87.5°	410.7	413.2	415.6	413.2	410.7	405.8	398.4	386.1	366.4	344.3	307.4
90°	383.7	383.7	383.7	383.7	381.2	376.3	368.9	354.1	336.9	309.9	277.9
92.5°	359.1	359.1	359.1	359.1	356.6	349.2	341.8	329.5	309.9	282.8	253.3
95°	334.5	336.9	334.5	334.5	329.5	327.1	314.8	302.5	285.3	258.2	226.3
97.5°	307.4	309.9	307.4	307.4	305.0	300.0	292.7	277.9	260.7	236.1	206.6
100°	287.7	287.7	285.3	285.3	282.8	277.9	268.1	255.8	238.6	214.0	184.4
102.5°	265.6	268.1	265.6	265.6	260.7	255.8	248.4	236.1	218.9	194.3	167.2
105°	248.4	248.4	245.9	245.9	241.0	236.1	228.7	214.0	199.2	177.1	150.0
107.5°	231.2	231.2	228.7	228.7	223.8	218.9	209.0	196.7	182.0	159.9	135.3
110°	214.0	214.0	214.0	211.5	206.6	199.2	191.8	179.5	164.8	145.1	120.5





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-LN-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	201.7	199.2	196.7	194.3	189.4	184.4	174.6	162.3	147.6	130.3	108.2
115°	184.4	184.4	182.0	179.5	174.6	167.2	159.9	150.0	135.3	115.6	95.9
117.5°	169.7	169.7	167.2	164.8	159.9	152.5	145.1	135.3	120.5	103.3	86.1
120°	154.9	154.9	152.5	150.0	145.1	137.7	132.8	120.5	108.2	91.0	76.2
122.5°	142.6	140.2	140.2	135.3	132.8	125.4	118.0	108.2	95.9	81.2	66.4
125°	127.9	127.9	125.4	123.0	120.5	113.1	105.8	95.9	83.6	71.3	59.0
127.5°	115.6	115.6	113.1	110.7	108.2	100.8	93.5	86.1	73.8	61.5	49.2
130°	103.3	103.3	100.8	98.4	95.9	88.5	83.6	73.8	63.9	54.1	41.8
132.5°	93.5	93.5	91.0	88.5	83.6	78.7	73.8	63.9	56.6	46.7	36.9
135°	83.6	81.2	81.2	78.7	73.8	68.9	63.9	56.6	46.7	39.3	29.5
137.5°	73.8	71.3	68.9	66.4	63.9	59.0	54.1	49.2	41.8	32.0	24.6
140°	63.9	61.5	61.5	59.0	54.1	51.6	46.7	39.3	34.4	27.1	19.7
142.5°	54.1	54.1	51.6	49.2	46.7	44.3	39.3	34.4	27.1	22.1	14.8
145°	46.7	44.3	44.3	41.8	39.3	34.4	32.0	27.1	22.1	17.2	12.3
147.5°	36.9	36.9	36.9	34.4	32.0	29.5	27.1	22.1	17.2	12.3	7.4
150°	29.5	29.5	29.5	27.1	24.6	22.1	19.7	17.2	12.3	7.4	4.9
152.5°	24.6	24.6	22.1	22.1	19.7	17.2	14.8	12.3	7.4	4.9	4.9
155°	17.2	17.2	17.2	14.8	14.8	12.3	9.8	7.4	4.9	4.9	4.9
157.5°	12.3	12.3	12.3	9.8	9.8	7.4	7.4	4.9	4.9	4.9	4.9
160°	7.4	7.4	7.4	7.4	4.9	4.9	4.9	4.9	4.9	4.9	4.9
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-LD5-128SL-LN-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	4471.0	4471.0	4471.0	4471.0	4471.0	4471.0	4471.0
2.5°	4441.5	4439.1	4458.7	4458.7	4436.6	4471.0	4507.9
5°	4426.8	4424.3	4444.0	4444.0	4424.3	4458.7	4498.1
7.5°	4397.3	4399.7	4419.4	4424.3	4399.7	4431.7	4473.5
10°	4365.3	4362.8	4385.0	4389.9	4370.2	4399.7	4439.1
12.5°	4313.6	4313.6	4335.8	4343.1	4323.5	4357.9	4394.8
15°	4259.5	4259.5	4274.3	4286.6	4269.4	4301.3	4338.2
17.5°	4190.7	4188.2	4203.0	4217.7	4200.5	4234.9	4274.3
20°	4102.1	4102.1	4119.3	4136.6	4124.3	4156.2	4200.5
22.5°	4008.7	3998.8	4028.4	4040.6	4033.3	4065.2	4109.5
25°	3890.6	3888.2	3917.7	3934.9	3925.1	3959.5	3998.8
27.5°	3762.7	3760.3	3789.8	3811.9	3807.0	3839.0	3883.3
30°	3607.8	3620.1	3647.2	3684.0	3671.8	3706.2	3752.9
32.5°	3445.5	3457.8	3489.8	3529.1	3531.6	3558.6	3605.4
35°	3251.2	3283.2	3305.3	3357.0	3366.8	3393.9	3443.0
37.5°	3047.1	3084.0	3130.7	3170.1	3189.7	3211.9	3268.4
40°	2818.4	2872.5	2924.1	2970.8	2995.4	3017.6	3071.7
42.5°	2611.8	2653.6	2702.8	2749.5	2793.8	2813.5	2870.0
45°	2378.2	2427.3	2471.6	2528.2	2572.4	2594.6	2651.1
47.5°	2149.4	2198.6	2257.6	2297.0	2343.7	2365.9	2420.0
50°	1930.6	1974.8	2024.0	2070.7	2110.1	2129.8	2176.5
52.5°	1714.1	1760.9	1807.6	1837.1	1878.9	1893.7	1933.0
55°	1522.3	1554.3	1596.1	1613.3	1655.1	1665.0	1692.0
57.5°	1337.9	1360.0	1374.8	1404.3	1433.8	1455.9	1487.9
60°	1170.6	1180.5	1190.3	1207.5	1232.1	1239.5	1251.8
62.5°	1020.6	1018.2	1037.8	1042.7	1045.2	1069.8	1057.5
65°	887.8	890.3	873.1	865.7	875.5	882.9	878.0
67.5°	777.1	762.4	747.6	730.4	715.7	723.0	715.7
70°	668.9	656.6	632.0	607.5	597.6	582.9	575.5
72.5°	582.9	553.3	528.8	496.8	479.6	462.4	450.1
75°	516.5	474.6	440.2	405.8	381.2	356.6	351.7
77.5°	447.6	408.2	368.9	332.0	295.1	268.1	258.2
80°	393.5	356.6	309.9	265.6	226.3	191.8	179.5
82.5°	344.3	305.0	258.2	211.5	167.2	130.3	115.6
85°	302.5	260.7	214.0	167.2	123.0	83.6	63.9
87.5°	270.5	223.8	177.1	132.8	86.1	46.7	24.6
90°	241.0	196.7	152.5	105.8	61.5	24.6	0.0
92.5°	214.0	172.2	127.9	86.1	46.7	14.8	2.5
95°	189.4	152.5	108.2	68.9	34.4	9.8	2.5
97.5°	169.7	132.8	93.5	56.6	27.1	7.4	2.5
100°	152.5	115.6	81.2	46.7	22.1	4.9	2.5
102.5°	135.3	103.3	68.9	39.3	17.2	2.5	2.5
105°	120.5	91.0	59.0	34.4	14.8	2.5	2.5
107.5°	108.2	81.2	51.6	29.5	9.8	2.5	2.5
110°	95.9	68.9	44.3	24.6	7.4	2.5	2.5



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-128SL-LN-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	86.1	61.5	39.3	19.7	4.9	2.5	2.5
115°	76.2	54.1	34.4	17.2	4.9	2.5	2.5
117.5°	66.4	46.7	29.5	12.3	2.5	2.5	2.5
120°	59.0	41.8	24.6	9.8	2.5	2.5	2.5
122.5°	51.6	34.4	19.7	7.4	2.5	2.5	2.5
125°	44.3	29.5	17.2	4.9	2.5	2.5	2.5
127.5°	36.9	24.6	12.3	4.9	2.5	2.5	2.5
130°	32.0	19.7	9.8	2.5	2.5	2.5	2.5
132.5°	27.1	14.8	7.4	2.5	2.5	2.5	2.5
135°	22.1	12.3	4.9	2.5	2.5	2.5	2.5
137.5°	17.2	9.8	4.9	2.5	2.5	2.5	2.5
140°	12.3	7.4	2.5	2.5	2.5	2.5	2.5
142.5°	9.8	4.9	2.5	2.5	2.5	2.5	2.5
145°	7.4	4.9	2.5	2.5	2.5	2.5	2.5
147.5°	4.9	4.9	4.9	4.9	2.5	2.5	2.5
150°	4.9	4.9	2.5	2.5	4.9	2.5	2.5
152.5°	4.9	2.5	2.5	2.5	4.9	2.5	2.5
155°	4.9	4.9	4.9	4.9	4.9	4.9	2.5
157.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9
160°	4.9	4.9	4.9	4.9	4.9	4.9	4.9
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)