

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-LD5-136SL-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-LD5-136SL-LN-UNV-L940-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

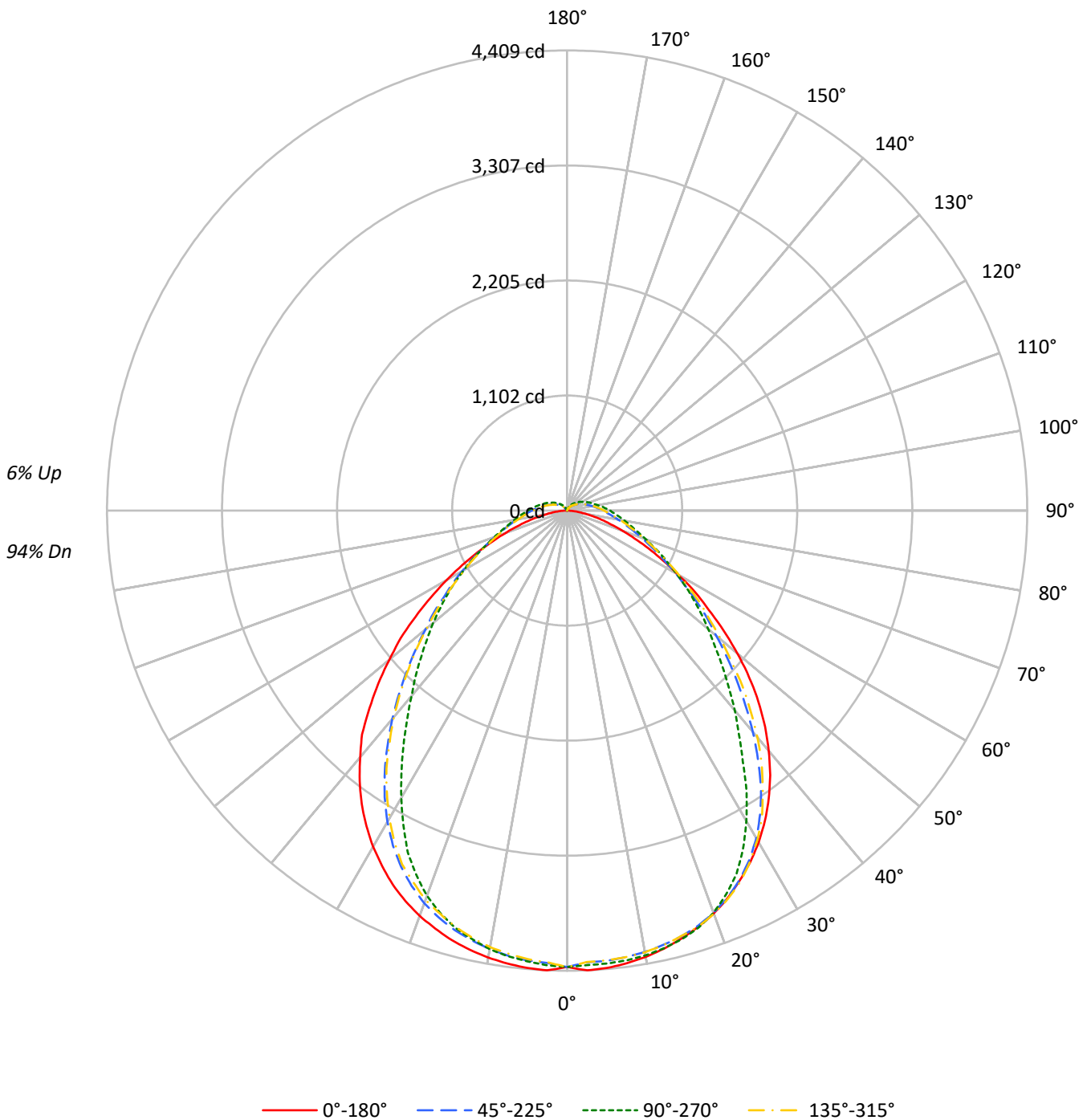
Lumens per Lamp: N/A  
Luminaire Lumens: 11067.0 lumens  
Efficiency: N/A  
Efficacy: 100.6 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 110  
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°	17669	17669	17669	17669
5°	17820	17107	17820	17031
10°	17765	16652	17794	16421
15°	17675	16155	17755	15734
20°	17565	15515	17669	14860
25°	17311	14566	17502	13708
30°	16973	13171	17195	12194
35°	16431	11462	16748	10673
40°	15642	10025	16055	9301
45°	14589	8714	15063	8214
50°	13137	7658	13716	7271
55°	11403	6762	12232	6420
60°	9634	5937	10504	5595
65°	7944	5249	8745	4867
70°	6376	4658	7139	4309
75°	5074	4301	5713	3957
80°	3753	4150	4422	3792
85°	2458	4174	3312	3836



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	414.6	3.7
10°-20°	1188.8	10.7
20°-30°	1761.9	15.9
30°-40°	1957.4	17.7
40°-50°	1774.3	16.0
50°-60°	1374.9	12.4
60°-70°	933.7	8.4
70°-80°	594.0	5.4
80°-90°	379.8	3.4
90°-100°	256.0	2.3
100°-110°	175.4	1.6
110°-120°	117.0	1.1
120°-130°	72.8	0.7
130°-140°	40.2	0.4
140°-150°	18.9	0.2
150°-160°	6.9	0.1
160°-170°	0.4	0.0
170°-180°	0.0	0.0
0°-30°	3365.3	30.4
0°-40°	5322.6	48.1
0°-60°	8471.9	76.6
0°-90°	10379.3	93.8
90°-120°	548.4	5.0
90°-150°	680.3	6.1
90°-180°	688.0	6.2
0°-180°	11067.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	4373	4373	4373	4373	4373	
5°	4400	4356	4400	4337	4400	418
15°	4243	4250	4262	4140	4243	1198
25°	3911	3839	3954	3613	3911	1801
35°	3368	2935	3432	2732	3368	2101
45°	2593	2098	2677	1977	2593	1991
55°	1655	1474	1775	1400	1655	1490
65°	859	991	945	919	859	861
75°	344	662	387	609	344	370
85°	62	476	84	438	62	75
90°	0	411	5	375	0	4
95°	2	351	0	327	2	2
105°	2	257	0	243	2	3
115°	2	195	0	180	2	2
125°	2	144	2	128	2	2
135°	2	101	2	82	2	2
145°	2	65	2	46	2	2
155°	2	36	2	17	2	1
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-LD5-136SL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4373.0	4373.0	4373.0	4373.0	4373.0	4373.0	4373.0	4373.0	4373.0	4373.0	4373.0
2.5°	4409.1	4404.3	4399.5	4392.3	4399.5	4418.7	4406.7	4380.3	4375.4	4332.1	4351.4
5°	4399.5	4392.3	4387.5	4380.3	4389.9	4413.9	4401.9	4377.8	4370.6	4329.7	4351.4
7.5°	4375.4	4370.6	4363.4	4363.4	4373.0	4397.1	4387.5	4361.0	4356.2	4315.3	4339.4
10°	4341.8	4339.4	4334.5	4334.5	4344.2	4373.0	4361.0	4337.0	4332.1	4293.7	4320.1
12.5°	4298.5	4300.9	4293.7	4293.7	4308.1	4337.0	4327.3	4300.9	4296.1	4262.4	4288.8
15°	4243.1	4245.5	4240.7	4243.1	4257.6	4291.3	4279.2	4255.2	4250.4	4223.9	4245.5
17.5°	4180.6	4183.0	4183.0	4180.6	4197.4	4231.1	4221.5	4199.8	4192.6	4171.0	4197.4
20°	4108.4	4108.4	4108.4	4108.4	4127.7	4161.4	4149.3	4132.5	4118.1	4101.2	4122.9
22.5°	4019.4	4017.0	4019.4	4026.7	4045.9	4072.4	4065.1	4045.9	4024.3	4014.6	4031.5
25°	3911.2	3918.4	3920.8	3928.0	3952.1	3973.7	3966.5	3947.3	3913.6	3906.4	3911.2
27.5°	3798.1	3803.0	3810.2	3807.8	3841.4	3863.1	3848.7	3831.8	3783.7	3776.5	3771.7
30°	3670.7	3677.9	3682.7	3680.3	3706.7	3730.8	3716.4	3694.7	3629.8	3625.0	3586.5
32.5°	3526.3	3533.5	3538.4	3538.4	3576.8	3586.5	3560.0	3528.7	3459.0	3442.1	3408.5
35°	3367.6	3374.8	3377.2	3377.2	3415.7	3413.3	3379.6	3336.3	3259.3	3237.7	3180.0
37.5°	3196.8	3201.6	3204.0	3218.4	3235.3	3220.8	3177.5	3122.2	3064.5	3004.4	2941.8
40°	3004.4	3011.6	3016.4	3026.0	3042.8	3026.0	2963.5	2896.1	2833.6	2766.2	2703.7
42.5°	2807.1	2828.8	2824.0	2821.5	2831.2	2785.5	2737.4	2660.4	2597.8	2528.1	2465.5
45°	2593.0	2590.6	2602.7	2607.5	2605.1	2566.6	2499.2	2429.5	2366.9	2294.8	2241.8
47.5°	2366.9	2364.5	2374.1	2378.9	2364.5	2323.6	2270.7	2191.3	2138.4	2075.9	2035.0
50°	2128.8	2128.8	2143.2	2128.8	2121.6	2080.7	2037.4	1958.0	1917.1	1861.8	1837.7
52.5°	1890.7	1912.3	1897.9	1893.1	1885.8	1844.9	1811.3	1746.3	1712.7	1688.6	1659.7
55°	1654.9	1679.0	1669.4	1662.1	1659.7	1626.1	1594.8	1546.7	1525.0	1508.2	1491.4
57.5°	1455.3	1452.9	1448.1	1440.8	1443.2	1416.8	1385.5	1359.1	1349.4	1342.2	1347.0
60°	1224.4	1243.6	1236.4	1238.8	1241.2	1236.4	1209.9	1193.1	1195.5	1197.9	1205.1
62.5°	1034.3	1051.2	1063.2	1053.6	1058.4	1065.6	1051.2	1046.4	1056.0	1065.6	1075.2
65°	858.7	875.6	887.6	885.2	899.6	914.1	911.7	916.5	938.1	950.1	962.2
67.5°	700.0	716.8	733.6	736.1	757.7	779.4	789.0	805.8	829.9	846.7	861.1
70°	562.9	577.3	596.5	608.6	637.4	666.3	683.1	716.8	731.2	755.3	764.9
72.5°	440.2	452.2	478.7	507.5	531.6	567.7	601.4	630.2	651.9	678.3	690.4
75°	344.0	348.8	377.6	411.3	445.0	485.9	522.0	553.2	582.1	608.6	627.8
77.5°	252.6	259.8	286.2	331.9	370.4	413.7	454.6	488.3	519.6	546.0	572.5
80°	175.6	190.0	218.9	264.6	307.9	356.0	394.5	433.0	466.6	493.1	519.6
82.5°	113.1	125.1	166.0	211.7	257.4	305.5	346.4	384.9	420.9	449.8	473.9
85°	62.5	79.4	120.3	168.4	214.1	262.2	305.5	344.0	380.1	406.5	430.6
87.5°	24.1	48.1	86.6	132.3	178.0	223.7	269.4	305.5	341.6	370.4	392.1
90°	0.0	28.9	64.9	110.6	156.4	202.1	245.4	283.8	317.5	344.0	368.0
92.5°	2.4	19.2	50.5	89.0	132.3	175.6	216.5	255.0	288.6	315.1	336.8
95°	2.4	14.4	40.9	77.0	115.5	156.4	194.8	230.9	262.2	288.6	310.3
97.5°	2.4	9.6	33.7	67.4	101.0	141.9	178.0	211.7	240.5	267.0	283.8
100°	2.4	9.6	28.9	57.7	91.4	127.5	161.2	194.8	221.3	242.9	262.2
102.5°	2.4	7.2	24.1	50.5	81.8	113.1	146.7	178.0	202.1	223.7	242.9
105°	2.4	7.2	21.6	43.3	72.2	103.4	132.3	161.2	187.6	206.9	223.7
107.5°	2.4	4.8	19.2	36.1	62.5	93.8	122.7	146.7	170.8	190.0	206.9
110°	2.4	4.8	16.8	33.7	55.3	84.2	110.6	134.7	156.4	175.6	190.0



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CATALOG NUMBER: 8SNLED-LD5-136SL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	2.4	4.8	14.4	31.3	50.5	74.6	101.0	122.7	144.3	161.2	175.6
115°	2.4	4.8	14.4	28.9	45.7	64.9	89.0	113.1	129.9	149.1	161.2
117.5°	2.4	4.8	12.0	24.1	43.3	60.1	81.8	101.0	120.3	137.1	149.1
120°	2.4	4.8	12.0	21.6	38.5	55.3	72.2	91.4	110.6	122.7	134.7
122.5°	2.4	4.8	9.6	21.6	33.7	50.5	64.9	81.8	98.6	113.1	125.1
125°	2.4	4.8	9.6	19.2	31.3	45.7	60.1	72.2	89.0	101.0	113.1
127.5°	2.4	4.8	9.6	16.8	28.9	40.9	55.3	67.4	79.4	91.4	101.0
130°	2.4	4.8	7.2	14.4	26.5	36.1	48.1	62.5	72.2	81.8	91.4
132.5°	2.4	4.8	7.2	14.4	21.6	31.3	43.3	55.3	64.9	74.6	81.8
135°	2.4	4.8	7.2	12.0	19.2	28.9	36.1	48.1	57.7	67.4	74.6
137.5°	2.4	4.8	7.2	12.0	16.8	24.1	31.3	40.9	50.5	57.7	67.4
140°	2.4	4.8	7.2	9.6	14.4	21.6	28.9	33.7	43.3	50.5	57.7
142.5°	2.4	4.8	7.2	9.6	14.4	19.2	24.1	28.9	36.1	43.3	50.5
145°	2.4	4.8	7.2	9.6	12.0	16.8	21.6	26.5	28.9	36.1	40.9
147.5°	2.4	4.8	7.2	9.6	9.6	14.4	19.2	21.6	26.5	28.9	33.7
150°	2.4	4.8	7.2	7.2	9.6	12.0	16.8	19.2	21.6	26.5	28.9
152.5°	2.4	4.8	7.2	7.2	9.6	12.0	14.4	16.8	19.2	21.6	24.1
155°	2.4	4.8	7.2	7.2	7.2	9.6	12.0	14.4	16.8	19.2	21.6
157.5°	4.8	4.8	4.8	7.2	7.2	9.6	9.6	12.0	14.4	14.4	16.8
160°	4.8	4.8	4.8	7.2	7.2	7.2	9.6	9.6	12.0	12.0	14.4
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



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	4373.0	4373.0	4373.0	4373.0	4373.0	4373.0	4373.0	4373.0	4373.0	4373.0	4373.0
2.5°	4346.6	4353.8	4375.4	4375.4	4370.6	4365.8	4365.8	4358.6	4363.4	4373.0	4368.2
5°	4346.6	4353.8	4375.4	4375.4	4370.6	4365.8	4363.4	4356.2	4363.4	4373.0	4368.2
7.5°	4332.1	4341.8	4363.4	4363.4	4358.6	4356.2	4351.4	4346.6	4353.8	4363.4	4358.6
10°	4312.9	4322.5	4344.2	4344.2	4339.4	4339.4	4332.1	4327.3	4337.0	4344.2	4341.8
12.5°	4284.0	4296.1	4315.3	4312.9	4308.1	4310.5	4303.3	4293.7	4303.3	4310.5	4312.9
15°	4243.1	4257.6	4276.8	4272.0	4264.8	4269.6	4257.6	4250.4	4257.6	4272.0	4269.6
17.5°	4190.2	4199.8	4214.3	4214.3	4207.1	4202.3	4197.4	4190.2	4195.0	4204.7	4207.1
20°	4115.7	4127.7	4134.9	4127.7	4125.3	4118.1	4108.4	4101.2	4110.8	4125.3	4127.7
22.5°	4017.0	4019.4	4036.3	4019.4	4007.4	4005.0	3995.4	3981.0	3995.4	4007.4	4009.8
25°	3894.4	3906.4	3899.2	3870.3	3870.3	3851.1	3846.2	3839.0	3841.4	3863.1	3872.7
27.5°	3738.0	3742.8	3723.6	3699.5	3677.9	3665.8	3649.0	3651.4	3651.4	3680.3	3689.9
30°	3567.2	3540.8	3523.9	3485.4	3468.6	3439.7	3434.9	3434.9	3430.1	3444.5	3487.8
32.5°	3362.8	3326.7	3300.2	3264.1	3235.3	3206.4	3192.0	3199.2	3196.8	3232.9	3247.3
35°	3139.1	3117.4	3062.1	3016.4	2999.5	2956.2	2956.2	2934.6	2949.0	2989.9	3006.8
37.5°	2903.3	2869.7	2824.0	2773.4	2761.4	2727.7	2715.7	2703.7	2735.0	2742.2	2759.0
40°	2662.8	2631.5	2588.2	2540.1	2540.1	2499.2	2499.2	2499.2	2501.6	2516.1	2547.3
42.5°	2434.3	2400.6	2362.1	2328.4	2323.6	2292.4	2292.4	2289.9	2294.8	2306.8	2335.7
45°	2213.0	2186.5	2145.6	2128.8	2131.2	2097.5	2104.7	2097.5	2107.1	2119.2	2128.8
47.5°	2008.5	1991.7	1974.8	1950.8	1943.6	1941.2	1929.1	1919.5	1936.4	1936.4	1950.8
50°	1818.5	1808.9	1799.2	1784.8	1787.2	1777.6	1763.2	1763.2	1775.2	1777.6	1787.2
52.5°	1652.5	1640.5	1628.5	1630.9	1633.3	1628.5	1621.2	1614.0	1621.2	1626.1	1638.1
55°	1486.5	1476.9	1488.9	1484.1	1488.9	1484.1	1479.3	1474.5	1486.5	1479.3	1491.4
57.5°	1337.4	1347.0	1351.8	1342.2	1349.4	1344.6	1347.0	1339.8	1349.4	1354.2	1351.8
60°	1200.3	1214.7	1207.5	1209.9	1219.5	1214.7	1205.1	1212.3	1221.9	1224.4	1221.9
62.5°	1075.2	1092.1	1099.3	1094.5	1096.9	1092.1	1099.3	1089.7	1101.7	1106.5	1099.3
65°	962.2	981.4	986.2	986.2	986.2	981.4	988.6	991.0	995.8	995.8	991.0
67.5°	865.9	882.8	887.6	892.4	887.6	882.8	882.8	885.2	894.8	899.6	894.8
70°	779.4	796.2	798.6	798.6	801.0	805.8	796.2	801.0	808.2	810.6	808.2
72.5°	704.8	721.6	726.4	724.0	726.4	728.8	728.8	724.0	731.2	736.1	736.1
75°	644.6	654.3	659.1	659.1	661.5	663.9	663.9	661.5	666.3	668.7	671.1
77.5°	589.3	596.5	603.8	603.8	606.2	603.8	608.6	608.6	611.0	613.4	615.8
80°	534.0	543.6	548.4	550.8	555.6	558.1	558.1	558.1	560.5	562.9	562.9
82.5°	490.7	497.9	505.1	512.4	512.4	514.8	514.8	514.8	517.2	517.2	519.6
85°	447.4	457.0	464.2	469.1	471.5	473.9	473.9	476.3	476.3	476.3	478.7
87.5°	408.9	420.9	425.8	430.6	433.0	437.8	437.8	437.8	440.2	440.2	440.2
90°	382.5	394.5	399.3	404.1	406.5	408.9	408.9	411.3	411.3	413.7	413.7
92.5°	351.2	363.2	372.8	372.8	375.2	380.1	377.6	377.6	380.1	382.5	382.5
95°	327.1	336.8	344.0	346.4	348.8	348.8	348.8	351.2	348.8	351.2	351.2
97.5°	298.3	307.9	315.1	319.9	322.3	322.3	322.3	324.7	322.3	324.7	324.7
100°	274.2	283.8	291.1	293.5	298.3	298.3	298.3	298.3	298.3	298.3	300.7
102.5°	255.0	264.6	269.4	271.8	274.2	276.6	276.6	276.6	276.6	279.0	279.0
105°	235.7	245.4	250.2	252.6	255.0	257.4	257.4	257.4	259.8	259.8	257.4
107.5°	218.9	226.1	230.9	235.7	238.1	238.1	240.5	240.5	240.5	240.5	240.5
110°	202.1	209.3	216.5	221.3	221.3	223.7	223.7	226.1	226.1	223.7	226.1





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	185.2	194.8	199.6	204.5	206.9	209.3	209.3	209.3	209.3	209.3	209.3
115°	170.8	180.4	185.2	190.0	192.4	194.8	194.8	194.8	194.8	194.8	194.8
117.5°	158.8	168.4	173.2	175.6	178.0	180.4	182.8	182.8	182.8	182.8	180.4
120°	146.7	153.9	158.8	163.6	166.0	168.4	168.4	168.4	168.4	168.4	168.4
122.5°	134.7	141.9	146.7	151.5	153.9	156.4	156.4	156.4	156.4	156.4	156.4
125°	122.7	129.9	134.7	139.5	141.9	144.3	144.3	144.3	144.3	144.3	144.3
127.5°	110.6	117.9	125.1	127.5	129.9	132.3	132.3	132.3	134.7	132.3	132.3
130°	98.6	105.8	113.1	115.5	117.9	120.3	122.7	122.7	122.7	122.7	120.3
132.5°	89.0	96.2	101.0	103.4	108.2	108.2	110.6	110.6	110.6	110.6	108.2
135°	81.8	86.6	91.4	93.8	98.6	98.6	98.6	101.0	101.0	98.6	96.2
137.5°	72.2	77.0	81.8	84.2	86.6	89.0	89.0	91.4	89.0	89.0	89.0
140°	67.4	69.8	74.6	77.0	79.4	79.4	79.4	81.8	81.8	79.4	79.4
142.5°	57.7	62.5	67.4	69.8	72.2	72.2	72.2	72.2	72.2	72.2	72.2
145°	48.1	55.3	57.7	62.5	62.5	64.9	64.9	64.9	64.9	64.9	62.5
147.5°	40.9	45.7	52.9	55.3	55.3	57.7	57.7	57.7	57.7	57.7	55.3
150°	31.3	36.1	43.3	48.1	48.1	50.5	50.5	50.5	50.5	48.1	48.1
152.5°	26.5	31.3	33.7	38.5	40.9	40.9	40.9	43.3	40.9	40.9	40.9
155°	24.1	26.5	28.9	31.3	33.7	36.1	36.1	36.1	36.1	33.7	33.7
157.5°	19.2	21.6	24.1	26.5	28.9	31.3	31.3	31.3	31.3	31.3	28.9
160°	14.4	16.8	19.2	19.2	21.6	24.1	26.5	24.1	24.1	24.1	24.1
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



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	4373.0	4373.0	4373.0	4373.0	4373.0	4373.0	4373.0	4373.0	4373.0	4373.0	4373.0
2.5°	4363.4	4361.0	4368.2	4356.2	4320.1	4329.7	4324.9	4346.6	4351.4	4356.2	4377.8
5°	4363.4	4361.0	4365.8	4356.2	4317.7	4324.9	4320.1	4341.8	4346.6	4349.0	4370.6
7.5°	4353.8	4351.4	4358.6	4346.6	4305.7	4315.3	4308.1	4329.7	4332.1	4334.5	4353.8
10°	4334.5	4332.1	4337.0	4327.3	4286.4	4296.1	4286.4	4308.1	4308.1	4312.9	4327.3
12.5°	4305.7	4300.9	4310.5	4298.5	4252.8	4264.8	4260.0	4274.4	4276.8	4279.2	4293.7
15°	4264.8	4260.0	4267.2	4260.0	4219.1	4221.5	4214.3	4235.9	4238.3	4233.5	4248.0
17.5°	4204.7	4199.8	4214.3	4209.5	4168.6	4178.2	4175.8	4180.6	4187.8	4175.8	4195.0
20°	4130.1	4134.9	4139.7	4142.1	4110.8	4110.8	4108.4	4118.1	4125.3	4115.7	4130.1
22.5°	4019.4	4031.5	4045.9	4050.7	4029.1	4026.7	4041.1	4036.3	4043.5	4038.7	4048.3
25°	3879.9	3904.0	3918.4	3932.8	3920.8	3925.6	3947.3	3952.1	3952.1	3949.7	3959.3
27.5°	3706.7	3738.0	3764.5	3795.7	3783.7	3793.3	3829.4	3834.2	3843.8	3834.2	3853.5
30°	3499.9	3528.7	3579.2	3625.0	3629.8	3644.2	3694.7	3699.5	3726.0	3716.4	3723.6
32.5°	3293.0	3307.4	3365.2	3410.9	3439.7	3475.8	3531.1	3540.8	3576.8	3584.1	3584.1
35°	3033.2	3074.1	3127.0	3192.0	3228.1	3266.5	3341.1	3355.5	3408.5	3425.3	3444.5
37.5°	2814.3	2852.8	2886.5	2953.8	3018.8	3062.1	3122.2	3158.3	3213.6	3244.9	3269.0
40°	2581.0	2612.3	2648.4	2715.7	2771.0	2836.0	2896.1	2939.4	3009.2	3045.2	3076.5
42.5°	2359.7	2383.8	2422.2	2470.4	2528.1	2600.2	2658.0	2708.5	2783.1	2833.6	2869.7
45°	2162.5	2176.9	2210.6	2246.7	2297.2	2371.7	2427.1	2492.0	2552.1	2605.1	2648.4
47.5°	1977.2	1996.5	2013.3	2037.4	2083.1	2128.8	2193.7	2256.3	2316.4	2374.1	2417.4
50°	1806.5	1806.5	1832.9	1849.8	1881.0	1921.9	1972.4	2015.7	2090.3	2131.2	2186.5
52.5°	1640.5	1650.1	1664.5	1674.2	1698.2	1724.7	1765.6	1801.7	1864.2	1902.7	1955.6
55°	1493.8	1503.4	1510.6	1515.4	1529.8	1561.1	1575.5	1604.4	1647.7	1679.0	1724.7
57.5°	1354.2	1359.1	1366.3	1368.7	1371.1	1390.3	1402.4	1409.6	1452.9	1484.1	1522.6
60°	1226.8	1226.8	1234.0	1231.6	1229.2	1238.8	1236.4	1243.6	1270.1	1289.3	1306.1
62.5°	1106.5	1106.5	1108.9	1104.1	1101.7	1101.7	1092.1	1099.3	1106.5	1108.9	1120.9
65°	995.8	1007.9	998.2	1000.7	986.2	981.4	976.6	962.2	959.8	950.1	954.9
67.5°	897.2	906.8	897.2	897.2	885.2	875.6	863.5	839.5	832.3	813.0	808.2
70°	817.8	810.6	815.4	808.2	793.8	781.8	764.9	745.7	721.6	697.6	680.7
72.5°	740.9	740.9	736.1	728.8	721.6	697.6	678.3	656.7	627.8	596.5	572.5
75°	666.3	668.7	668.7	661.5	649.5	627.8	606.2	574.9	543.6	507.5	476.3
77.5°	613.4	613.4	613.4	601.4	589.3	570.1	543.6	509.9	476.3	433.0	396.9
80°	562.9	560.5	560.5	546.0	534.0	512.4	485.9	452.2	416.1	370.4	329.5
82.5°	522.0	519.6	514.8	502.7	485.9	464.2	437.8	401.7	363.2	322.3	271.8
85°	478.7	476.3	471.5	459.4	442.6	423.4	394.5	358.4	319.9	274.2	226.1
87.5°	440.2	437.8	430.6	423.4	404.1	382.5	353.6	319.9	279.0	235.7	187.6
90°	413.7	408.9	404.1	394.5	377.6	353.6	324.7	288.6	247.8	204.5	156.4
92.5°	382.5	380.1	372.8	363.2	348.8	324.7	295.9	262.2	221.3	180.4	134.7
95°	351.2	348.8	344.0	334.4	319.9	298.3	271.8	238.1	199.6	158.8	117.9
97.5°	322.3	322.3	315.1	307.9	291.1	274.2	247.8	216.5	180.4	144.3	105.8
100°	298.3	298.3	291.1	281.4	269.4	252.6	226.1	197.2	163.6	129.9	91.4
102.5°	276.6	274.2	269.4	259.8	247.8	230.9	206.9	180.4	149.1	115.5	81.8
105°	257.4	255.0	250.2	240.5	230.9	211.7	192.4	166.0	134.7	103.4	72.2
107.5°	238.1	235.7	233.3	223.7	211.7	194.8	175.6	149.1	122.7	93.8	64.9
110°	221.3	218.9	214.1	204.5	192.4	178.0	158.8	137.1	110.6	84.2	57.7



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	206.9	204.5	199.6	190.0	180.4	163.6	146.7	122.7	101.0	77.0	50.5
115°	192.4	190.0	185.2	175.6	163.6	149.1	132.3	113.1	89.0	67.4	45.7
117.5°	178.0	175.6	170.8	163.6	151.5	137.1	120.3	101.0	79.4	62.5	40.9
120°	166.0	161.2	156.4	149.1	137.1	125.1	108.2	91.4	72.2	55.3	36.1
122.5°	153.9	149.1	144.3	137.1	125.1	113.1	96.2	81.8	67.4	50.5	33.7
125°	139.5	137.1	132.3	125.1	113.1	101.0	89.0	74.6	60.1	45.7	28.9
127.5°	127.5	125.1	120.3	110.6	101.0	91.4	79.4	67.4	52.9	38.5	26.5
130°	117.9	113.1	108.2	101.0	93.8	84.2	72.2	60.1	48.1	33.7	24.1
132.5°	105.8	101.0	96.2	91.4	84.2	74.6	64.9	52.9	43.3	31.3	21.6
135°	96.2	91.4	86.6	81.8	74.6	67.4	57.7	48.1	38.5	28.9	19.2
137.5°	84.2	81.8	79.4	74.6	67.4	60.1	52.9	40.9	33.7	26.5	16.8
140°	77.0	74.6	72.2	64.9	60.1	52.9	45.7	36.1	28.9	21.6	14.4
142.5°	69.8	67.4	62.5	57.7	52.9	48.1	38.5	33.7	26.5	19.2	14.4
145°	60.1	57.7	55.3	50.5	45.7	38.5	33.7	28.9	24.1	16.8	12.0
147.5°	55.3	52.9	48.1	43.3	38.5	33.7	31.3	26.5	19.2	14.4	9.6
150°	45.7	43.3	40.9	36.1	33.7	31.3	26.5	21.6	16.8	12.0	9.6
152.5°	38.5	36.1	33.7	33.7	28.9	26.5	21.6	19.2	14.4	12.0	7.2
155°	33.7	33.7	31.3	28.9	24.1	21.6	19.2	14.4	12.0	9.6	7.2
157.5°	28.9	26.5	24.1	24.1	21.6	19.2	14.4	12.0	9.6	9.6	7.2
160°	24.1	21.6	21.6	19.2	16.8	14.4	12.0	12.0	9.6	7.2	7.2
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-LD5-136SL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4373.0	4373.0	4373.0	4373.0	4373.0	4373.0	4373.0	4373.0	4373.0	4373.0	4373.0
2.5°	4380.3	4353.8	4377.8	4409.1	4409.1	4404.3	4399.5	4409.1	4433.2	4423.5	4394.7
5°	4373.0	4346.6	4368.2	4399.5	4399.5	4392.3	4387.5	4394.7	4421.1	4409.1	4382.7
7.5°	4358.6	4334.5	4349.0	4377.8	4377.8	4370.6	4365.8	4375.4	4397.1	4385.1	4356.2
10°	4332.1	4305.7	4322.5	4349.0	4346.6	4341.8	4334.5	4346.6	4365.8	4349.0	4315.3
12.5°	4298.5	4272.0	4286.4	4310.5	4308.1	4298.5	4293.7	4300.9	4317.7	4308.1	4272.0
15°	4252.8	4226.3	4238.3	4262.4	4255.2	4248.0	4238.3	4240.7	4262.4	4245.5	4207.1
17.5°	4197.4	4168.6	4178.2	4199.8	4192.6	4185.4	4173.4	4175.8	4199.8	4175.8	4134.9
20°	4130.1	4098.8	4106.0	4132.5	4120.5	4108.4	4096.4	4096.4	4120.5	4094.0	4048.3
22.5°	4057.9	4026.7	4031.5	4050.7	4041.1	4019.4	4007.4	4014.6	4026.7	3993.0	3944.9
25°	3968.9	3928.0	3935.2	3954.5	3947.3	3918.4	3906.4	3911.2	3906.4	3879.9	3829.4
27.5°	3865.5	3822.2	3827.0	3839.0	3829.4	3803.0	3788.5	3790.9	3781.3	3747.6	3689.9
30°	3735.6	3714.0	3711.5	3718.8	3704.3	3677.9	3661.0	3656.2	3653.8	3605.7	3536.0
32.5°	3603.3	3584.1	3572.0	3581.7	3564.8	3538.4	3509.5	3509.5	3485.4	3439.7	3379.6
35°	3468.6	3437.3	3425.3	3432.5	3413.3	3379.6	3355.5	3343.5	3307.4	3249.7	3184.8
37.5°	3295.4	3273.8	3259.3	3266.5	3244.9	3220.8	3175.1	3163.1	3124.6	3045.2	2963.5
40°	3107.8	3091.0	3076.5	3083.7	3059.7	3023.6	2982.7	2963.5	2920.2	2831.2	2766.2
42.5°	2905.7	2898.5	2881.7	2908.1	2860.0	2824.0	2783.1	2751.8	2708.5	2612.3	2537.7
45°	2691.7	2708.5	2670.0	2677.2	2646.0	2614.7	2571.4	2525.7	2482.4	2391.0	2306.8
47.5°	2465.5	2477.6	2451.1	2455.9	2422.2	2393.4	2354.9	2297.2	2249.1	2169.7	2095.1
50°	2232.2	2227.4	2227.4	2222.6	2196.1	2160.1	2121.6	2068.7	2020.5	1948.4	1885.8
52.5°	1984.5	1994.1	1998.9	2010.9	1977.2	1955.6	1895.5	1849.8	1813.7	1739.1	1686.2
55°	1746.3	1780.0	1770.4	1775.2	1736.7	1719.9	1671.8	1635.7	1582.8	1539.5	1505.8
57.5°	1529.8	1537.1	1541.9	1549.1	1532.2	1498.6	1460.1	1431.2	1390.3	1354.2	1330.2
60°	1320.6	1320.6	1323.0	1335.0	1318.2	1289.3	1260.4	1238.8	1209.9	1188.3	1173.8
62.5°	1123.3	1140.2	1142.6	1132.9	1111.3	1096.9	1077.6	1065.6	1046.4	1039.1	1034.3
65°	940.5	940.5	940.5	945.3	933.3	923.7	911.7	909.2	916.5	906.8	911.7
67.5°	786.6	779.4	774.5	776.9	772.1	767.3	764.9	772.1	786.6	786.6	798.6
70°	654.3	639.8	630.2	630.2	630.2	632.6	639.8	654.3	678.3	687.9	704.8
72.5°	546.0	514.8	500.3	500.3	502.7	512.4	534.0	560.5	582.1	601.4	623.0
75°	442.6	411.3	389.7	387.3	392.1	406.5	437.8	461.8	497.9	524.4	550.8
77.5°	358.4	319.9	293.5	291.1	298.3	319.9	358.4	389.7	430.6	459.4	488.3
80°	286.2	242.9	221.3	206.9	218.9	245.4	288.6	327.1	365.6	404.1	440.2
82.5°	228.5	187.6	153.9	139.5	153.9	190.0	230.9	276.6	315.1	356.0	392.1
85°	180.4	137.1	98.6	84.2	101.0	139.5	185.2	230.9	274.2	315.1	351.2
87.5°	141.9	98.6	60.1	40.9	62.5	103.4	146.7	192.4	238.1	279.0	315.1
90°	110.6	69.8	33.7	4.8	36.1	74.6	117.9	161.2	206.9	247.8	283.8
92.5°	93.8	52.9	19.2	0.0	21.6	55.3	96.2	139.5	180.4	221.3	257.4
95°	79.4	43.3	14.4	0.0	14.4	43.3	79.4	117.9	158.8	199.6	235.7
97.5°	67.4	33.7	9.6	0.0	9.6	33.7	64.9	103.4	139.5	178.0	211.7
100°	57.7	28.9	7.2	0.0	7.2	26.5	55.3	89.0	125.1	161.2	192.4
102.5°	50.5	24.1	4.8	0.0	4.8	21.6	45.7	77.0	108.2	141.9	173.2
105°	43.3	19.2	4.8	0.0	2.4	16.8	38.5	67.4	96.2	127.5	156.4
107.5°	38.5	16.8	4.8	0.0	2.4	14.4	33.7	57.7	86.6	113.1	139.5
110°	33.7	14.4	4.8	0.0	2.4	9.6	28.9	50.5	74.6	101.0	127.5



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	28.9	12.0	2.4	0.0	0.0	7.2	24.1	43.3	64.9	91.4	113.1
115°	26.5	12.0	2.4	0.0	0.0	4.8	19.2	38.5	57.7	81.8	101.0
117.5°	24.1	9.6	2.4	0.0	2.4	4.8	16.8	33.7	50.5	69.8	91.4
120°	21.6	9.6	2.4	0.0	2.4	2.4	12.0	28.9	43.3	62.5	79.4
122.5°	19.2	9.6	2.4	0.0	2.4	2.4	9.6	24.1	38.5	55.3	69.8
125°	16.8	7.2	4.8	2.4	2.4	2.4	7.2	19.2	33.7	45.7	62.5
127.5°	16.8	7.2	4.8	2.4	2.4	2.4	4.8	16.8	26.5	40.9	55.3
130°	14.4	7.2	4.8	2.4	2.4	2.4	2.4	12.0	24.1	33.7	45.7
132.5°	12.0	7.2	4.8	2.4	2.4	2.4	2.4	7.2	16.8	28.9	38.5
135°	12.0	7.2	4.8	2.4	2.4	2.4	2.4	4.8	12.0	21.6	31.3
137.5°	9.6	4.8	4.8	2.4	2.4	2.4	2.4	2.4	9.6	16.8	24.1
140°	9.6	4.8	4.8	2.4	2.4	2.4	2.4	2.4	7.2	12.0	19.2
142.5°	7.2	4.8	4.8	2.4	2.4	2.4	2.4	2.4	4.8	9.6	14.4
145°	7.2	4.8	4.8	2.4	2.4	2.4	2.4	2.4	2.4	4.8	9.6
147.5°	7.2	7.2	4.8	2.4	2.4	2.4	2.4	2.4	2.4	4.8	7.2
150°	7.2	4.8	4.8	2.4	2.4	2.4	2.4	2.4	2.4	2.4	4.8
152.5°	7.2	4.8	4.8	2.4	2.4	2.4	2.4	2.4	2.4	2.4	4.8
155°	7.2	4.8	4.8	2.4	2.4	2.4	2.4	2.4	2.4	4.8	4.8
157.5°	7.2	4.8	4.8	2.4	2.4	2.4	2.4	2.4	2.4	2.4	4.8
160°	7.2	4.8	4.8	2.4	4.8	2.4	4.8	4.8	4.8	4.8	4.8
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



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4373.0	4373.0	4373.0	4373.0	4373.0	4373.0	4373.0	4373.0	4373.0	4373.0	4373.0
2.5°	4385.1	4339.4	4363.4	4356.2	4365.8	4385.1	4382.7	4377.8	4377.8	4370.6	4361.0
5°	4370.6	4327.3	4349.0	4337.0	4349.0	4365.8	4363.4	4356.2	4361.0	4349.0	4337.0
7.5°	4341.8	4303.3	4322.5	4312.9	4322.5	4339.4	4332.1	4329.7	4334.5	4315.3	4308.1
10°	4308.1	4264.8	4286.4	4274.4	4286.4	4298.5	4293.7	4284.0	4293.7	4274.4	4267.2
12.5°	4255.2	4219.1	4233.5	4228.7	4235.9	4248.0	4238.3	4231.1	4235.9	4219.1	4204.7
15°	4197.4	4161.4	4173.4	4166.2	4171.0	4185.4	4168.6	4166.2	4161.4	4144.5	4139.7
17.5°	4122.9	4089.2	4101.2	4089.2	4096.4	4091.6	4089.2	4077.2	4077.2	4057.9	4043.5
20°	4031.5	4002.6	3995.4	3985.8	3995.4	3985.8	3971.3	3961.7	3959.3	3940.1	3928.0
22.5°	3925.6	3892.0	3896.8	3870.3	3872.7	3858.3	3834.2	3824.6	3815.0	3793.3	3776.5
25°	3798.1	3764.5	3740.4	3723.6	3701.9	3699.5	3668.2	3644.2	3641.8	3615.3	3612.9
27.5°	3653.8	3615.3	3596.1	3555.2	3528.7	3507.1	3480.6	3456.6	3444.5	3415.7	3396.4
30°	3487.8	3444.5	3396.4	3367.6	3326.7	3309.8	3264.1	3235.3	3225.7	3194.4	3180.0
32.5°	3300.2	3254.5	3216.0	3160.7	3115.0	3091.0	3045.2	3016.4	3004.4	2970.7	2951.4
35°	3095.8	3045.2	2999.5	2946.6	2910.5	2869.7	2814.3	2785.5	2759.0	2747.0	2732.5
37.5°	2881.7	2826.4	2773.4	2720.5	2689.2	2641.1	2593.0	2573.8	2542.5	2530.5	2516.1
40°	2660.4	2605.1	2554.5	2504.0	2468.0	2424.7	2381.4	2374.1	2340.5	2328.4	2318.8
42.5°	2441.5	2383.8	2326.0	2289.9	2263.5	2220.2	2191.3	2184.1	2155.2	2148.0	2148.0
45°	2244.2	2172.1	2124.0	2092.7	2071.1	2035.0	2010.9	2006.1	1982.1	1977.2	1977.2
47.5°	2032.6	1965.2	1929.1	1909.9	1890.7	1864.2	1849.8	1849.8	1825.7	1820.9	1818.5
50°	1835.3	1772.8	1746.3	1727.1	1724.7	1705.4	1693.4	1688.6	1688.6	1671.8	1674.2
52.5°	1647.7	1616.4	1594.8	1582.8	1568.3	1556.3	1546.7	1546.7	1539.5	1527.4	1532.2
55°	1474.5	1438.4	1440.8	1431.2	1424.0	1416.8	1419.2	1404.8	1402.4	1392.7	1399.9
57.5°	1301.3	1301.3	1296.5	1289.3	1277.3	1282.1	1282.1	1282.1	1270.1	1262.8	1270.1
60°	1154.6	1161.8	1149.8	1157.0	1152.2	1154.6	1149.8	1149.8	1142.6	1140.2	1142.6
62.5°	1024.7	1036.7	1031.9	1041.5	1036.7	1039.1	1043.9	1034.3	1029.5	1024.7	1029.5
65°	909.2	923.7	921.3	928.5	930.9	933.3	935.7	930.9	926.1	921.3	918.9
67.5°	808.2	822.7	832.3	834.7	837.1	844.3	841.9	837.1	832.3	825.1	822.7
70°	716.8	736.1	748.1	752.9	762.5	757.7	757.7	755.3	750.5	743.3	740.9
72.5°	639.8	661.5	673.5	678.3	687.9	687.9	685.5	683.1	678.3	671.1	668.7
75°	572.5	591.7	608.6	618.2	625.4	625.4	623.0	620.6	615.8	611.0	608.6
77.5°	519.6	536.4	550.8	562.9	567.7	570.1	567.7	562.9	562.9	560.5	558.1
80°	466.6	485.9	500.3	512.4	519.6	519.6	517.2	519.6	514.8	512.4	509.9
82.5°	420.9	442.6	459.4	471.5	476.3	478.7	476.3	478.7	473.9	473.9	473.9
85°	380.1	401.7	420.9	430.6	437.8	440.2	440.2	440.2	437.8	437.8	437.8
87.5°	346.4	368.0	387.3	396.9	404.1	406.5	406.5	408.9	404.1	404.1	404.1
90°	315.1	336.8	356.0	365.6	372.8	377.6	377.6	380.1	377.6	375.2	375.2
92.5°	286.2	310.3	329.5	339.2	346.4	353.6	353.6	356.0	351.2	351.2	351.2
95°	262.2	286.2	303.1	315.1	322.3	327.1	329.5	329.5	327.1	327.1	327.1
97.5°	240.5	262.2	279.0	291.1	298.3	300.7	303.1	305.5	303.1	303.1	303.1
100°	218.9	240.5	257.4	267.0	276.6	279.0	281.4	283.8	283.8	281.4	281.4
102.5°	199.6	221.3	235.7	247.8	255.0	259.8	262.2	262.2	262.2	262.2	262.2
105°	180.4	202.1	216.5	228.5	235.7	240.5	242.9	245.4	245.4	242.9	242.9
107.5°	163.6	182.8	199.6	209.3	218.9	223.7	226.1	226.1	228.5	226.1	226.1
110°	146.7	168.4	182.8	192.4	202.1	206.9	209.3	211.7	211.7	211.7	211.7



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	134.7	151.5	166.0	175.6	185.2	190.0	192.4	194.8	197.2	194.8	194.8
115°	120.3	137.1	151.5	161.2	168.4	173.2	178.0	180.4	180.4	182.8	180.4
117.5°	108.2	122.7	137.1	146.7	153.9	161.2	163.6	166.0	168.4	166.0	166.0
120°	96.2	110.6	122.7	132.3	139.5	146.7	149.1	151.5	153.9	151.5	151.5
122.5°	86.6	98.6	110.6	120.3	127.5	132.3	137.1	137.1	139.5	139.5	139.5
125°	77.0	89.0	98.6	108.2	115.5	120.3	122.7	125.1	125.1	127.5	127.5
127.5°	67.4	77.0	89.0	96.2	103.4	108.2	110.6	113.1	113.1	115.5	115.5
130°	57.7	67.4	77.0	84.2	91.4	96.2	98.6	101.0	103.4	103.4	103.4
132.5°	50.5	60.1	67.4	74.6	79.4	84.2	89.0	91.4	91.4	91.4	91.4
135°	40.9	50.5	57.7	64.9	69.8	74.6	77.0	81.8	81.8	81.8	81.8
137.5°	33.7	43.3	50.5	55.3	60.1	64.9	67.4	69.8	72.2	72.2	72.2
140°	26.5	33.7	40.9	48.1	52.9	55.3	60.1	60.1	62.5	62.5	62.5
142.5°	19.2	26.5	31.3	38.5	43.3	48.1	50.5	52.9	52.9	52.9	52.9
145°	14.4	19.2	24.1	28.9	36.1	38.5	40.9	43.3	45.7	45.7	45.7
147.5°	9.6	14.4	16.8	21.6	26.5	31.3	33.7	36.1	38.5	38.5	38.5
150°	7.2	9.6	14.4	16.8	19.2	24.1	28.9	28.9	31.3	31.3	28.9
152.5°	4.8	7.2	9.6	12.0	14.4	16.8	21.6	21.6	24.1	24.1	24.1
155°	4.8	4.8	4.8	7.2	9.6	12.0	14.4	16.8	16.8	16.8	16.8
157.5°	4.8	4.8	4.8	4.8	4.8	7.2	9.6	12.0	12.0	12.0	12.0
160°	4.8	4.8	2.4	2.4	4.8	4.8	4.8	4.8	7.2	7.2	7.2
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-LD5-136SL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4373.0	4373.0	4373.0	4373.0	4373.0	4373.0	4373.0	4373.0	4373.0	4373.0	4373.0
2.5°	4368.2	4373.0	4373.0	4368.2	4365.8	4375.4	4363.4	4317.7	4332.1	4337.0	4351.4
5°	4346.6	4351.4	4351.4	4351.4	4346.6	4356.2	4344.2	4298.5	4315.3	4322.5	4332.1
7.5°	4315.3	4317.7	4322.5	4320.1	4315.3	4329.7	4317.7	4272.0	4284.0	4296.1	4308.1
10°	4274.4	4274.4	4276.8	4281.6	4276.8	4288.8	4276.8	4235.9	4248.0	4255.2	4269.6
12.5°	4219.1	4223.9	4226.3	4223.9	4221.5	4231.1	4226.3	4187.8	4192.6	4207.1	4221.5
15°	4144.5	4144.5	4156.5	4151.7	4151.7	4161.4	4166.2	4122.9	4130.1	4151.7	4166.2
17.5°	4053.1	4055.5	4065.1	4070.0	4067.5	4084.4	4086.8	4053.1	4050.7	4077.2	4091.6
20°	3935.2	3940.1	3952.1	3961.7	3961.7	3981.0	3988.2	3966.5	3968.9	3997.8	4002.6
22.5°	3790.9	3790.9	3812.6	3827.0	3839.0	3851.1	3872.7	3853.5	3853.5	3892.0	3913.6
25°	3612.9	3629.8	3637.0	3665.8	3682.7	3716.4	3735.6	3738.0	3740.4	3776.5	3790.9
27.5°	3415.7	3420.5	3442.1	3475.8	3495.1	3526.3	3562.4	3569.6	3581.7	3629.8	3651.4
30°	3192.0	3206.4	3216.0	3264.1	3290.6	3331.5	3377.2	3394.0	3403.7	3468.6	3495.1
32.5°	2963.5	2968.3	3009.2	3035.6	3066.9	3110.2	3163.1	3194.4	3213.6	3281.0	3319.5
35°	2735.0	2744.6	2778.2	2811.9	2843.2	2886.5	2941.8	2985.1	3018.8	3078.9	3129.4
37.5°	2525.7	2549.7	2557.0	2590.6	2614.7	2658.0	2696.5	2759.0	2792.7	2855.2	2920.2
40°	2338.1	2345.3	2350.1	2383.8	2400.6	2441.5	2496.8	2537.7	2583.4	2629.1	2706.1
42.5°	2152.8	2157.7	2164.9	2184.1	2203.4	2232.2	2273.1	2314.0	2362.1	2429.5	2480.0
45°	1982.1	1986.9	1991.7	2003.7	2020.5	2047.0	2073.5	2102.3	2150.4	2208.2	2261.1
47.5°	1823.3	1832.9	1832.9	1835.3	1847.4	1869.0	1888.2	1924.3	1950.8	1982.1	2042.2
50°	1671.8	1679.0	1681.4	1681.4	1688.6	1703.0	1707.8	1731.9	1755.9	1784.8	1828.1
52.5°	1529.8	1529.8	1527.4	1537.1	1537.1	1546.7	1549.1	1563.5	1580.4	1611.6	1630.9
55°	1395.1	1395.1	1402.4	1397.5	1397.5	1402.4	1399.9	1402.4	1416.8	1436.0	1452.9
57.5°	1265.2	1262.8	1270.1	1265.2	1262.8	1267.7	1272.5	1262.8	1265.2	1284.5	1284.5
60°	1135.4	1137.8	1145.0	1140.2	1140.2	1140.2	1135.4	1130.5	1125.7	1137.8	1142.6
62.5°	1031.9	1024.7	1031.9	1024.7	1029.5	1027.1	1022.3	1012.7	1015.1	1010.3	1005.5
65°	923.7	923.7	926.1	918.9	923.7	923.7	916.5	914.1	899.6	894.8	882.8
67.5°	829.9	829.9	832.3	827.5	827.5	829.9	822.7	815.4	801.0	793.8	776.9
70°	748.1	748.1	748.1	745.7	745.7	745.7	740.9	731.2	716.8	704.8	683.1
72.5°	673.5	675.9	673.5	673.5	680.7	673.5	666.3	656.7	644.6	620.6	601.4
75°	613.4	615.8	613.4	613.4	613.4	611.0	608.6	594.1	579.7	560.5	531.6
77.5°	560.5	560.5	562.9	560.5	560.5	558.1	550.8	538.8	522.0	505.1	471.5
80°	509.9	512.4	514.8	517.2	512.4	509.9	502.7	493.1	471.5	452.2	418.5
82.5°	473.9	471.5	473.9	476.3	471.5	469.1	461.8	449.8	433.0	406.5	372.8
85°	437.8	435.4	435.4	437.8	435.4	430.6	423.4	411.3	394.5	368.0	334.4
87.5°	401.7	404.1	406.5	404.1	401.7	396.9	389.7	377.6	358.4	336.8	300.7
90°	375.2	375.2	375.2	375.2	372.8	368.0	360.8	346.4	329.5	303.1	271.8
92.5°	351.2	351.2	351.2	351.2	348.8	341.6	334.4	322.3	303.1	276.6	247.8
95°	327.1	329.5	327.1	327.1	322.3	319.9	307.9	295.9	279.0	252.6	221.3
97.5°	300.7	303.1	300.7	300.7	298.3	293.5	286.2	271.8	255.0	230.9	202.1
100°	281.4	281.4	279.0	279.0	276.6	271.8	262.2	250.2	233.3	209.3	180.4
102.5°	259.8	262.2	259.8	259.8	255.0	250.2	242.9	230.9	214.1	190.0	163.6
105°	242.9	242.9	240.5	240.5	235.7	230.9	223.7	209.3	194.8	173.2	146.7
107.5°	226.1	226.1	223.7	223.7	218.9	214.1	204.5	192.4	178.0	156.4	132.3
110°	209.3	209.3	209.3	206.9	202.1	194.8	187.6	175.6	161.2	141.9	117.9





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	197.2	194.8	192.4	190.0	185.2	180.4	170.8	158.8	144.3	127.5	105.8
115°	180.4	180.4	178.0	175.6	170.8	163.6	156.4	146.7	132.3	113.1	93.8
117.5°	166.0	166.0	163.6	161.2	156.4	149.1	141.9	132.3	117.9	101.0	84.2
120°	151.5	151.5	149.1	146.7	141.9	134.7	129.9	117.9	105.8	89.0	74.6
122.5°	139.5	137.1	137.1	132.3	129.9	122.7	115.5	105.8	93.8	79.4	64.9
125°	125.1	125.1	122.7	120.3	117.9	110.6	103.4	93.8	81.8	69.8	57.7
127.5°	113.1	113.1	110.6	108.2	105.8	98.6	91.4	84.2	72.2	60.1	48.1
130°	101.0	101.0	98.6	96.2	93.8	86.6	81.8	72.2	62.5	52.9	40.9
132.5°	91.4	91.4	89.0	86.6	81.8	77.0	72.2	62.5	55.3	45.7	36.1
135°	81.8	79.4	79.4	77.0	72.2	67.4	62.5	55.3	45.7	38.5	28.9
137.5°	72.2	69.8	67.4	64.9	62.5	57.7	52.9	48.1	40.9	31.3	24.1
140°	62.5	60.1	60.1	57.7	52.9	50.5	45.7	38.5	33.7	26.5	19.2
142.5°	52.9	52.9	50.5	48.1	45.7	43.3	38.5	33.7	26.5	21.6	14.4
145°	45.7	43.3	43.3	40.9	38.5	33.7	31.3	26.5	21.6	16.8	12.0
147.5°	36.1	36.1	36.1	33.7	31.3	28.9	26.5	21.6	16.8	12.0	7.2
150°	28.9	28.9	28.9	26.5	24.1	21.6	19.2	16.8	12.0	7.2	4.8
152.5°	24.1	24.1	21.6	21.6	19.2	16.8	14.4	12.0	7.2	4.8	4.8
155°	16.8	16.8	16.8	14.4	14.4	12.0	9.6	7.2	4.8	4.8	4.8
157.5°	12.0	12.0	12.0	9.6	9.6	7.2	7.2	4.8	4.8	4.8	4.8
160°	7.2	7.2	7.2	7.2	4.8	4.8	4.8	4.8	4.8	4.8	4.8
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



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	4373.0	4373.0	4373.0	4373.0	4373.0	4373.0	4373.0
2.5°	4344.2	4341.8	4361.0	4361.0	4339.4	4373.0	4409.1
5°	4329.7	4327.3	4346.6	4346.6	4327.3	4361.0	4399.5
7.5°	4300.9	4303.3	4322.5	4327.3	4303.3	4334.5	4375.4
10°	4269.6	4267.2	4288.8	4293.7	4274.4	4303.3	4341.8
12.5°	4219.1	4219.1	4240.7	4248.0	4228.7	4262.4	4298.5
15°	4166.2	4166.2	4180.6	4192.6	4175.8	4207.1	4243.1
17.5°	4098.8	4096.4	4110.8	4125.3	4108.4	4142.1	4180.6
20°	4012.2	4012.2	4029.1	4045.9	4033.9	4065.1	4108.4
22.5°	3920.8	3911.2	3940.1	3952.1	3944.9	3976.1	4019.4
25°	3805.4	3803.0	3831.8	3848.7	3839.0	3872.7	3911.2
27.5°	3680.3	3677.9	3706.7	3728.4	3723.6	3754.8	3798.1
30°	3528.7	3540.8	3567.2	3603.3	3591.3	3625.0	3670.7
32.5°	3370.0	3382.0	3413.3	3451.8	3454.2	3480.6	3526.3
35°	3180.0	3211.2	3232.9	3283.4	3293.0	3319.5	3367.6
37.5°	2980.3	3016.4	3062.1	3100.6	3119.8	3141.5	3196.8
40°	2756.6	2809.5	2860.0	2905.7	2929.8	2951.4	3004.4
42.5°	2554.5	2595.4	2643.5	2689.2	2732.5	2751.8	2807.1
45°	2326.0	2374.1	2417.4	2472.8	2516.1	2537.7	2593.0
47.5°	2102.3	2150.4	2208.2	2246.7	2292.4	2314.0	2366.9
50°	1888.2	1931.5	1979.7	2025.4	2063.8	2083.1	2128.8
52.5°	1676.6	1722.3	1768.0	1796.8	1837.7	1852.2	1890.7
55°	1488.9	1520.2	1561.1	1577.9	1618.8	1628.5	1654.9
57.5°	1308.5	1330.2	1344.6	1373.5	1402.4	1424.0	1455.3
60°	1145.0	1154.6	1164.2	1181.1	1205.1	1212.3	1224.4
62.5°	998.2	995.8	1015.1	1019.9	1022.3	1046.4	1034.3
65°	868.4	870.8	853.9	846.7	856.3	863.5	858.7
67.5°	760.1	745.7	731.2	714.4	700.0	707.2	700.0
70°	654.3	642.2	618.2	594.1	584.5	570.1	562.9
72.5°	570.1	541.2	517.2	485.9	469.1	452.2	440.2
75°	505.1	464.2	430.6	396.9	372.8	348.8	344.0
77.5°	437.8	399.3	360.8	324.7	288.6	262.2	252.6
80°	384.9	348.8	303.1	259.8	221.3	187.6	175.6
82.5°	336.8	298.3	252.6	206.9	163.6	127.5	113.1
85°	295.9	255.0	209.3	163.6	120.3	81.8	62.5
87.5°	264.6	218.9	173.2	129.9	84.2	45.7	24.1
90°	235.7	192.4	149.1	103.4	60.1	24.1	0.0
92.5°	209.3	168.4	125.1	84.2	45.7	14.4	2.4
95°	185.2	149.1	105.8	67.4	33.7	9.6	2.4
97.5°	166.0	129.9	91.4	55.3	26.5	7.2	2.4
100°	149.1	113.1	79.4	45.7	21.6	4.8	2.4
102.5°	132.3	101.0	67.4	38.5	16.8	2.4	2.4
105°	117.9	89.0	57.7	33.7	14.4	2.4	2.4
107.5°	105.8	79.4	50.5	28.9	9.6	2.4	2.4
110°	93.8	67.4	43.3	24.1	7.2	2.4	2.4



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-LN-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	84.2	60.1	38.5	19.2	4.8	2.4	2.4
115°	74.6	52.9	33.7	16.8	4.8	2.4	2.4
117.5°	64.9	45.7	28.9	12.0	2.4	2.4	2.4
120°	57.7	40.9	24.1	9.6	2.4	2.4	2.4
122.5°	50.5	33.7	19.2	7.2	2.4	2.4	2.4
125°	43.3	28.9	16.8	4.8	2.4	2.4	2.4
127.5°	36.1	24.1	12.0	4.8	2.4	2.4	2.4
130°	31.3	19.2	9.6	2.4	2.4	2.4	2.4
132.5°	26.5	14.4	7.2	2.4	2.4	2.4	2.4
135°	21.6	12.0	4.8	2.4	2.4	2.4	2.4
137.5°	16.8	9.6	4.8	2.4	2.4	2.4	2.4
140°	12.0	7.2	2.4	2.4	2.4	2.4	2.4
142.5°	9.6	4.8	2.4	2.4	2.4	2.4	2.4
145°	7.2	4.8	2.4	2.4	2.4	2.4	2.4
147.5°	4.8	4.8	4.8	4.8	2.4	2.4	2.4
150°	4.8	4.8	2.4	2.4	4.8	2.4	2.4
152.5°	4.8	2.4	2.4	2.4	4.8	2.4	2.4
155°	4.8	4.8	4.8	4.8	4.8	4.8	2.4
157.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8
160°	4.8	4.8	4.8	4.8	4.8	4.8	4.8
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)