

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P#

Luminaire Tested: **8SNLED-LD5-200HL-LC-UNV-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 (P33518)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNLED-LD5-200HL-LC-UNV-L940-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
CLEAR LENSED
Light Source: -
Ballast/Driver: -

Summary

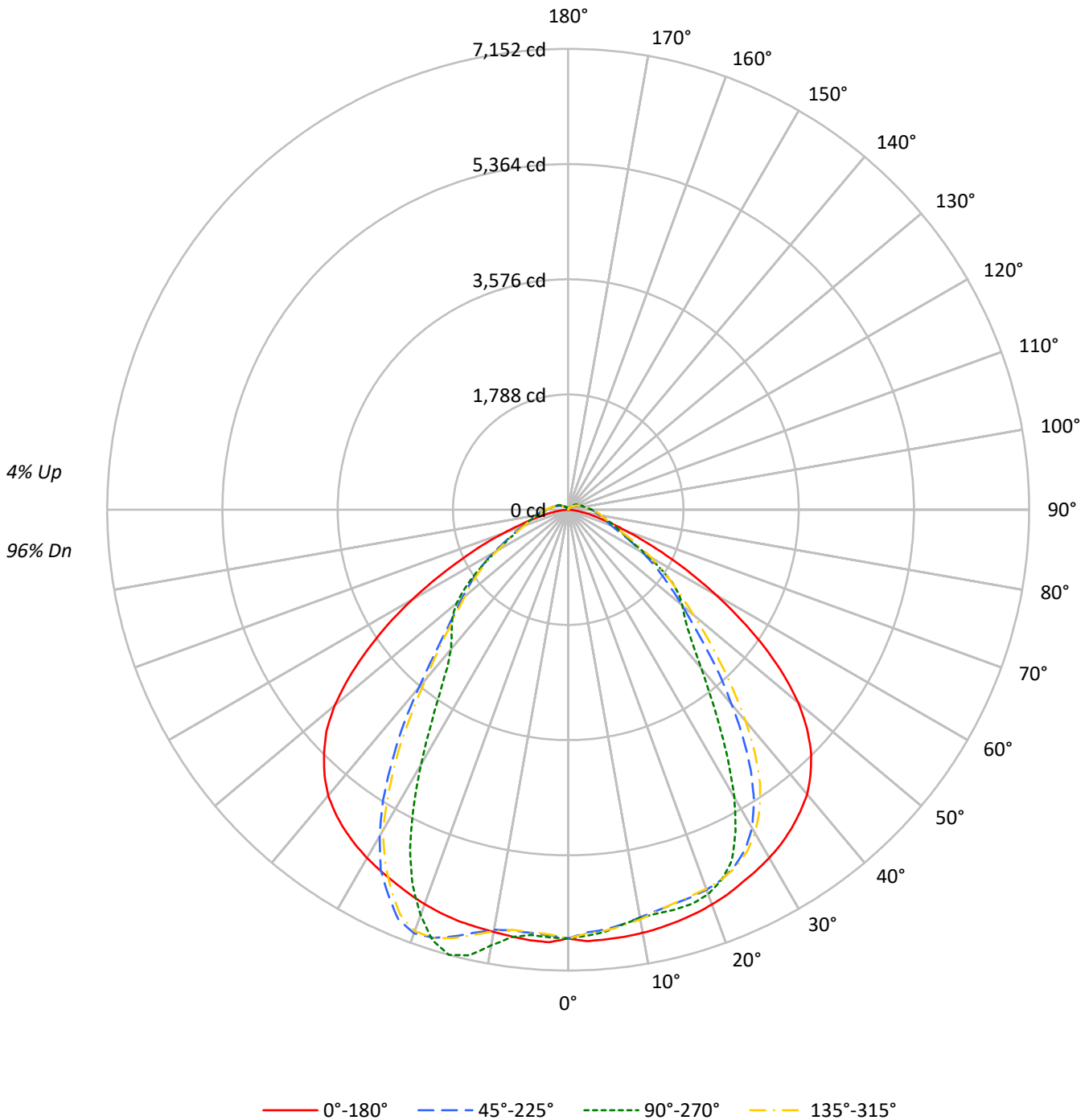
Lumens per Lamp: N/A
Luminaire Lumens: 15862.0 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 158
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96				
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	84	82				
2	100	93	86	81	97	90	85	80	86	82	77	82	79	75	79	76	73	71				
3	92	83	75	69	89	81	74	68	77	71	67	74	69	65	71	67	63	61				
4	85	74	66	60	83	73	65	59	70	63	58	67	61	57	64	60	56	54				
5	79	67	59	52	76	66	58	52	63	56	51	61	55	50	59	53	49	47				
6	73	61	52	46	71	60	52	46	57	51	45	55	49	45	54	48	44	42				
7	68	55	47	42	66	54	47	41	53	46	41	51	45	40	49	44	40	38				
8	64	51	43	37	62	50	42	37	48	42	37	47	41	36	45	40	36	34				
9	60	47	39	34	58	46	39	34	45	38	33	43	37	33	42	37	33	31				
10	56	43	36	31	54	43	36	31	42	35	30	40	34	30	39	34	30	28				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	26884	26884	26884	26884
5°	27117	25819	27173	26021
10°	27281	24745	27224	26424
15°	27530	24414	27516	27183
20°	27875	24027	27846	25327
25°	28262	22793	28247	22024
30°	28843	19755	28859	17501
35°	29463	15974	29547	13518
40°	30024	12862	30150	11332
45°	29991	10895	30145	10609
50°	28780	10031	29183	9807
55°	25624	9015	26263	8196
60°	20876	6900	21984	6328
65°	15611	5279	16819	5006
70°	10706	4557	12068	4357
75°	7098	4112	8264	3888
80°	4702	3834	5510	3527
85°	2569	3825	3379	3494



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	632.0	4.0
10°-20°	1880.5	11.9
20°-30°	2858.9	18.0
30°-40°	3066.9	19.3
40°-50°	2661.7	16.8
50°-60°	1972.6	12.4
60°-70°	1130.2	7.1
70°-80°	625.9	3.9
80°-90°	381.1	2.4
90°-100°	247.8	1.6
100°-110°	166.0	1.0
110°-120°	112.1	0.7
120°-130°	68.8	0.4
130°-140°	36.2	0.2
140°-150°	16.5	0.1
150°-160°	4.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5371.4	33.9
0°-40°	8438.3	53.2
0°-60°	13072.6	82.4
0°-90°	15209.8	95.9
90°-120°	525.9	3.3
90°-150°	647.3	4.1
90°-180°	652.0	4.1
0°-180°	15862.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	6654	6654	6654	6654	6654	
5°	6695	6575	6709	6626	6695	638
15°	6609	6423	6606	7152	6609	1870
25°	6386	6008	6382	5805	6386	2952
35°	6038	4090	6056	3461	6038	3780
45°	5330	2622	5358	2554	5330	4081
55°	3719	1966	3811	1787	3719	3298
65°	1688	997	1818	945	1688	1701
75°	481	632	560	598	481	549
85°	65	436	86	399	65	86
90°	0	364	7	337	0	3
95°	3	299	0	285	3	2
105°	3	223	3	213	3	4
115°	3	182	3	165	3	3
125°	3	138	3	113	3	3
135°	3	86	3	72	3	3
145°	3	52	7	41	3	2
155°	7	24	7	21	7	2
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	6653.7	6653.7	6653.7	6653.7	6653.7	6653.7	6653.7	6653.7	6653.7	6653.7	6653.7
2.5°	6701.8	6684.6	6677.8	6664.0	6674.3	6715.6	6688.1	6643.4	6646.8	6567.8	6609.0
5°	6694.9	6674.3	6664.0	6650.3	6657.1	6694.9	6667.5	6622.8	6619.3	6540.3	6578.1
7.5°	6684.6	6664.0	6646.8	6636.5	6640.0	6670.9	6636.5	6585.0	6574.7	6488.7	6523.1
10°	6667.5	6653.7	6629.6	6612.5	6609.0	6643.4	6588.4	6536.9	6512.8	6423.4	6457.8
12.5°	6643.4	6622.8	6598.7	6567.8	6564.3	6585.0	6540.3	6468.1	6444.1	6371.9	6409.7
15°	6609.0	6585.0	6557.5	6523.1	6505.9	6519.7	6464.7	6399.4	6395.9	6334.1	6385.6
17.5°	6571.2	6536.9	6505.9	6457.8	6433.7	6444.1	6399.4	6341.0	6347.8	6310.0	6368.4
20°	6519.7	6481.9	6433.7	6385.6	6351.3	6368.4	6337.5	6292.8	6303.1	6275.7	6327.2
22.5°	6461.2	6409.7	6351.3	6296.3	6268.8	6292.8	6268.8	6231.0	6234.4	6217.2	6248.2
25°	6385.6	6327.2	6258.5	6189.7	6176.0	6193.2	6179.4	6148.5	6134.7	6107.3	6121.0
27.5°	6316.9	6251.6	6165.7	6093.5	6069.4	6103.8	6072.9	6021.3	5983.5	5945.7	5918.2
30°	6237.8	6158.8	6062.6	5980.1	5959.5	5973.2	5928.5	5849.5	5749.8	5701.7	5626.1
32.5°	6151.9	6048.8	5928.5	5835.7	5822.0	5811.7	5729.2	5615.8	5461.1	5364.9	5248.0
35°	6038.5	5925.1	5780.8	5667.3	5646.7	5588.3	5454.3	5303.0	5103.7	4938.7	4739.4
37.5°	5911.4	5777.3	5626.1	5474.9	5416.4	5299.6	5110.6	4952.5	4650.0	4450.7	4210.1
40°	5767.0	5605.5	5419.9	5237.7	5141.5	4952.5	4736.0	4502.2	4210.1	3942.0	3739.3
42.5°	5567.7	5395.8	5175.9	4973.1	4808.1	4557.2	4302.9	3973.0	3704.9	3478.1	3271.9
45°	5330.5	5124.3	4870.0	4626.0	4416.3	4117.3	3818.3	3488.4	3265.0	3000.4	2859.4
47.5°	5024.6	4801.3	4529.7	4258.2	3983.3	3653.4	3340.6	3024.4	2801.0	2612.0	2508.9
50°	4663.8	4457.6	4158.6	3835.5	3533.1	3189.4	2876.6	2639.5	2423.0	2306.1	2227.1
52.5°	4217.0	4024.5	3718.7	3368.1	3076.0	2739.2	2453.9	2261.4	2106.8	2020.9	1993.4
55°	3718.7	3550.2	3247.8	2921.3	2622.3	2313.0	2096.5	1928.1	1828.4	1776.8	1780.3
57.5°	3185.9	3055.3	2770.1	2478.0	2196.1	1962.4	1766.5	1632.5	1556.9	1553.4	1563.8
60°	2653.2	2557.0	2309.6	2058.7	1811.2	1622.2	1477.8	1385.0	1336.9	1340.4	1336.9
62.5°	2144.6	2055.2	1876.5	1670.3	1474.4	1347.2	1216.6	1178.8	1137.6	1134.2	1134.2
65°	1687.5	1618.7	1474.4	1326.6	1178.8	1096.3	1031.0	986.4	955.4	948.6	952.0
67.5°	1268.2	1240.7	1141.0	1041.4	948.6	897.0	842.0	831.7	807.7	807.7	814.5
70°	945.1	924.5	869.5	811.1	773.3	738.9	711.4	711.4	708.0	704.6	721.7
72.5°	683.9	687.4	670.2	625.5	622.1	615.2	608.3	618.6	622.1	632.4	653.0
75°	481.2	491.5	491.5	484.6	498.3	515.5	525.8	543.0	563.6	577.4	601.4
77.5°	340.2	340.2	357.4	378.1	405.5	436.5	464.0	488.0	515.5	532.7	553.3
80°	220.0	230.3	257.8	295.6	333.4	374.6	412.4	443.4	470.8	498.3	512.1
82.5°	130.6	147.8	182.2	230.3	278.4	329.9	367.7	405.5	436.5	464.0	474.3
85°	65.3	89.4	130.6	182.2	233.7	288.7	336.8	371.2	405.5	429.6	443.4
87.5°	20.6	48.1	92.8	140.9	195.9	250.9	302.4	340.2	371.2	391.8	405.5
90°	0.0	24.1	65.3	116.9	168.4	223.4	271.5	312.8	343.7	360.9	371.2
92.5°	0.0	13.7	51.6	96.2	144.3	199.3	247.5	285.3	312.8	329.9	336.8
95°	3.4	10.3	37.8	79.0	127.2	178.7	223.4	257.8	285.3	302.4	305.9
97.5°	3.4	6.9	30.9	65.3	110.0	158.1	202.8	237.1	257.8	274.9	278.4
100°	3.4	6.9	24.1	58.4	96.2	140.9	182.2	213.1	237.1	250.9	254.3
102.5°	3.4	3.4	20.6	48.1	85.9	123.7	161.5	192.5	213.1	226.8	233.7
105°	3.4	3.4	17.2	41.2	75.6	110.0	144.3	175.3	192.5	206.2	213.1
107.5°	3.4	3.4	13.7	34.4	65.3	96.2	130.6	154.7	175.3	189.0	195.9
110°	3.4	3.4	10.3	30.9	55.0	85.9	113.4	137.5	158.1	171.8	178.7



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

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	3.4	3.4	10.3	27.5	48.1	75.6	99.7	123.7	140.9	154.7	165.0
115°	3.4	3.4	10.3	24.1	44.7	65.3	89.4	110.0	127.2	140.9	151.2
117.5°	3.4	3.4	10.3	20.6	37.8	58.4	79.0	99.7	113.4	127.2	137.5
120°	3.4	3.4	6.9	17.2	34.4	51.6	68.7	85.9	103.1	116.9	127.2
122.5°	3.4	3.4	6.9	17.2	27.5	44.7	61.9	75.6	92.8	103.1	113.4
125°	3.4	3.4	6.9	13.7	24.1	41.2	55.0	68.7	79.0	92.8	103.1
127.5°	3.4	3.4	6.9	13.7	20.6	34.4	48.1	61.9	72.2	82.5	89.4
130°	3.4	3.4	6.9	10.3	17.2	27.5	41.2	51.6	65.3	72.2	79.0
132.5°	3.4	3.4	3.4	10.3	13.7	20.6	30.9	44.7	55.0	65.3	68.7
135°	3.4	3.4	3.4	6.9	13.7	17.2	24.1	34.4	44.7	55.0	61.9
137.5°	3.4	3.4	3.4	6.9	10.3	17.2	20.6	27.5	37.8	44.7	55.0
140°	3.4	3.4	3.4	6.9	10.3	13.7	17.2	24.1	30.9	37.8	44.7
142.5°	3.4	3.4	3.4	6.9	6.9	10.3	13.7	20.6	24.1	30.9	37.8
145°	3.4	3.4	3.4	6.9	6.9	10.3	13.7	17.2	20.6	24.1	30.9
147.5°	3.4	3.4	3.4	6.9	6.9	6.9	10.3	13.7	17.2	20.6	24.1
150°	6.9	6.9	6.9	6.9	6.9	6.9	10.3	10.3	13.7	17.2	20.6
152.5°	6.9	6.9	6.9	6.9	6.9	6.9	10.3	10.3	10.3	13.7	17.2
155°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	10.3	10.3	13.7	13.7
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	6653.7	6653.7	6653.7	6653.7	6653.7	6653.7	6653.7	6653.7	6653.7	6653.7	6653.7
2.5°	6595.3	6602.2	6643.4	6640.0	6633.1	6626.2	6626.2	6619.3	6626.2	6643.4	6636.5
5°	6560.9	6571.2	6602.2	6598.7	6591.8	6588.4	6585.0	6574.7	6581.5	6605.6	6598.7
7.5°	6499.0	6509.4	6536.9	6523.1	6512.8	6519.7	6502.5	6492.2	6505.9	6530.0	6526.5
10°	6433.7	6440.6	6475.0	6468.1	6450.9	6454.4	6437.2	6430.3	6447.5	6461.2	6464.7
12.5°	6389.1	6413.1	6444.1	6440.6	6437.2	6440.6	6423.4	6416.6	6426.9	6440.6	6437.2
15°	6378.8	6409.7	6444.1	6444.1	6447.5	6450.9	6433.7	6423.4	6433.7	6444.1	6440.6
17.5°	6368.4	6406.3	6437.2	6433.7	6437.2	6444.1	6416.6	6409.7	6423.4	6437.2	6430.3
20°	6334.1	6368.4	6389.1	6382.2	6382.2	6385.6	6351.3	6351.3	6371.9	6382.2	6385.6
22.5°	6237.8	6279.1	6279.1	6261.9	6261.9	6248.2	6237.8	6217.2	6241.3	6258.5	6272.2
25°	6093.5	6110.7	6090.1	6052.3	6031.6	6014.5	5966.3	6007.6	6007.6	6059.1	6076.3
27.5°	5890.7	5852.9	5794.5	5715.5	5698.3	5643.3	5612.3	5622.7	5639.8	5712.0	5767.0
30°	5557.4	5443.9	5344.3	5309.9	5234.3	5179.3	5124.3	5151.8	5182.7	5224.0	5337.4
32.5°	5117.4	5007.5	4845.9	4787.5	4708.5	4639.7	4574.4	4615.7	4670.7	4698.1	4821.9
35°	4612.2	4481.6	4333.8	4234.2	4151.7	4113.9	4031.4	4089.8	4148.3	4168.9	4275.4
37.5°	4076.1	3942.0	3811.4	3725.5	3646.5	3622.4	3567.4	3608.7	3653.4	3684.3	3773.6
40°	3567.4	3443.7	3344.0	3285.6	3230.6	3210.0	3189.4	3206.6	3240.9	3265.0	3333.7
42.5°	3131.0	3031.3	2962.5	2928.2	2890.4	2862.9	2866.3	2873.2	2890.4	2941.9	2972.9
45°	2749.5	2691.0	2646.4	2639.5	2615.4	2612.0	2608.6	2622.3	2632.6	2663.5	2687.6
47.5°	2443.6	2419.5	2409.2	2423.0	2433.3	2419.5	2426.4	2443.6	2464.2	2464.2	2460.8
50°	2203.0	2209.9	2223.6	2254.6	2275.2	2282.1	2288.9	2309.6	2313.0	2319.9	2309.6
52.5°	2007.1	2014.0	2051.8	2099.9	2124.0	2134.3	2148.0	2168.6	2168.6	2175.5	2161.8
55°	1807.8	1818.1	1855.9	1904.0	1924.6	1938.4	1952.1	1965.9	1976.2	1989.9	1979.6
57.5°	1587.8	1618.7	1642.8	1656.6	1670.3	1680.6	1690.9	1694.4	1715.0	1718.4	1735.6
60°	1354.1	1361.0	1385.0	1381.6	1371.3	1398.8	1385.0	1409.1	1433.2	1464.1	1467.5
62.5°	1130.7	1134.2	1151.3	1144.5	1158.2	1154.8	1165.1	1165.1	1182.3	1196.0	1213.2
65°	955.4	958.9	972.6	972.6	969.2	979.5	989.8	996.7	996.7	1007.0	1020.7
67.5°	824.8	835.2	848.9	855.8	862.6	862.6	873.0	876.4	883.3	886.7	893.6
70°	735.5	749.2	763.0	769.9	773.3	780.2	783.6	783.6	790.5	793.9	800.8
72.5°	670.2	683.9	694.2	694.2	701.1	704.6	704.6	708.0	711.4	718.3	725.2
75°	615.2	625.5	632.4	628.9	628.9	628.9	632.4	632.4	639.3	646.1	653.0
77.5°	563.6	574.0	574.0	567.1	567.1	567.1	567.1	570.5	574.0	580.8	587.7
80°	525.8	525.8	522.4	522.4	515.5	512.1	512.1	515.5	515.5	522.4	532.7
82.5°	484.6	484.6	481.2	477.7	474.3	470.8	470.8	474.3	477.7	481.2	488.0
85°	446.8	446.8	439.9	439.9	436.5	436.5	436.5	436.5	439.9	443.4	450.2
87.5°	409.0	405.5	402.1	398.7	398.7	398.7	398.7	398.7	402.1	409.0	412.4
90°	371.2	367.7	364.3	364.3	360.9	360.9	364.3	364.3	367.7	371.2	374.6
92.5°	336.8	333.4	329.9	329.9	326.5	326.5	329.9	326.5	333.4	333.4	336.8
95°	305.9	302.4	299.0	299.0	299.0	299.0	299.0	299.0	302.4	302.4	305.9
97.5°	278.4	274.9	271.5	271.5	274.9	271.5	274.9	274.9	274.9	278.4	281.8
100°	254.3	250.9	250.9	254.3	250.9	250.9	254.3	254.3	254.3	254.3	257.8
102.5°	233.7	233.7	233.7	233.7	233.7	233.7	237.1	237.1	237.1	237.1	240.6
105°	213.1	216.5	216.5	216.5	220.0	220.0	220.0	223.4	223.4	223.4	223.4
107.5°	199.3	202.8	202.8	206.2	206.2	209.6	209.6	209.6	209.6	213.1	213.1
110°	185.6	189.0	192.5	195.9	195.9	199.3	199.3	199.3	199.3	199.3	199.3



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	171.8	175.3	178.7	185.6	189.0	189.0	189.0	189.0	192.5	192.5	189.0
115°	158.1	165.0	168.4	175.3	178.7	178.7	182.2	182.2	182.2	182.2	178.7
117.5°	144.3	154.7	158.1	165.0	168.4	168.4	171.8	171.8	171.8	171.8	168.4
120°	134.0	140.9	147.8	151.2	154.7	158.1	158.1	161.5	161.5	161.5	158.1
122.5°	123.7	130.6	137.5	140.9	144.3	147.8	147.8	147.8	147.8	147.8	147.8
125°	110.0	116.9	123.7	127.2	130.6	134.0	134.0	137.5	137.5	137.5	134.0
127.5°	99.7	106.5	110.0	116.9	120.3	120.3	123.7	123.7	123.7	123.7	120.3
130°	85.9	92.8	99.7	103.1	106.5	106.5	110.0	110.0	110.0	110.0	110.0
132.5°	75.6	82.5	85.9	92.8	92.8	96.2	96.2	99.7	99.7	99.7	96.2
135°	68.7	72.2	75.6	82.5	82.5	85.9	85.9	85.9	85.9	85.9	85.9
137.5°	61.9	65.3	68.7	72.2	72.2	75.6	75.6	75.6	75.6	79.0	75.6
140°	51.6	58.4	61.9	61.9	65.3	65.3	65.3	68.7	68.7	68.7	65.3
142.5°	44.7	48.1	51.6	55.0	58.4	58.4	58.4	58.4	61.9	58.4	58.4
145°	34.4	41.2	44.7	48.1	51.6	51.6	51.6	51.6	51.6	51.6	51.6
147.5°	27.5	30.9	37.8	41.2	41.2	44.7	44.7	44.7	44.7	44.7	44.7
150°	24.1	24.1	30.9	34.4	37.8	37.8	37.8	37.8	37.8	37.8	37.8
152.5°	17.2	20.6	24.1	27.5	30.9	30.9	30.9	30.9	30.9	30.9	30.9
155°	17.2	17.2	20.6	20.6	24.1	24.1	24.1	24.1	27.5	24.1	24.1
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	6653.7	6653.7	6653.7	6653.7	6653.7	6653.7	6653.7	6653.7	6653.7	6653.7	6653.7
2.5°	6626.2	6622.8	6636.5	6622.8	6554.0	6581.5	6571.2	6609.0	6612.5	6622.8	6657.1
5°	6591.8	6591.8	6609.0	6595.3	6530.0	6557.5	6554.0	6591.8	6598.7	6605.6	6643.4
7.5°	6523.1	6526.5	6550.6	6540.3	6471.6	6512.8	6509.4	6554.0	6567.8	6581.5	6615.9
10°	6457.8	6454.4	6481.9	6471.6	6406.3	6454.4	6450.9	6495.6	6516.2	6540.3	6581.5
12.5°	6423.4	6413.1	6423.4	6413.1	6341.0	6378.8	6382.2	6433.7	6457.8	6488.7	6536.9
15°	6423.4	6406.3	6406.3	6385.6	6303.1	6327.2	6330.6	6365.0	6395.9	6426.9	6485.3
17.5°	6416.6	6399.4	6395.9	6378.8	6289.4	6289.4	6286.0	6310.0	6327.2	6358.1	6420.0
20°	6378.8	6371.9	6368.4	6358.1	6275.7	6261.9	6255.0	6255.0	6265.3	6275.7	6337.5
22.5°	6279.1	6286.0	6292.8	6299.7	6234.4	6210.4	6213.8	6206.9	6196.6	6196.6	6248.2
25°	6093.5	6127.9	6155.4	6186.3	6148.5	6131.3	6151.9	6141.6	6124.4	6110.7	6155.4
27.5°	5797.9	5870.1	5928.5	6004.1	6007.6	5993.8	6048.8	6042.0	6038.5	6017.9	6052.3
30°	5389.0	5502.4	5581.4	5691.4	5784.2	5797.9	5890.7	5904.5	5918.2	5907.9	5942.3
32.5°	4894.0	5048.7	5182.7	5354.6	5443.9	5523.0	5653.6	5708.6	5763.6	5780.8	5818.6
35°	4354.5	4529.7	4687.8	4876.9	5017.8	5189.6	5347.7	5430.2	5553.9	5602.0	5657.0
37.5°	3842.4	4007.3	4162.0	4351.0	4577.9	4756.6	4952.5	5138.1	5306.5	5375.2	5457.7
40°	3388.7	3522.8	3670.5	3835.5	4041.7	4275.4	4488.5	4746.3	4945.6	5083.1	5203.4
42.5°	3045.0	3110.3	3237.5	3385.3	3550.2	3787.4	4003.9	4292.6	4533.2	4729.1	4928.4
45°	2739.2	2770.1	2862.9	2941.9	3110.3	3320.0	3550.2	3832.1	4083.0	4333.8	4574.4
47.5°	2478.0	2515.8	2560.4	2608.6	2728.8	2904.1	3103.5	3357.8	3608.7	3900.8	4175.8
50°	2302.7	2313.0	2319.9	2340.5	2412.7	2532.9	2694.5	2911.0	3151.6	3464.3	3756.5
52.5°	2148.0	2148.0	2127.4	2117.1	2144.6	2220.2	2313.0	2467.6	2715.1	3003.8	3313.1
55°	1983.1	1952.1	1945.2	1910.9	1917.8	1952.1	1996.8	2117.1	2319.9	2567.3	2866.3
57.5°	1752.8	1739.0	1739.0	1725.3	1697.8	1715.0	1725.3	1811.2	1955.6	2168.6	2429.8
60°	1488.1	1481.3	1498.5	1501.9	1477.8	1488.1	1484.7	1536.3	1639.4	1811.2	2027.7
62.5°	1223.5	1254.4	1257.9	1271.6	1257.9	1254.4	1271.6	1316.3	1367.9	1498.5	1666.9
65°	1027.6	1044.8	1048.2	1065.4	1058.5	1058.5	1072.3	1106.7	1137.6	1226.9	1357.5
67.5°	900.4	893.6	897.0	907.3	897.0	893.6	903.9	924.5	948.6	1003.6	1096.3
70°	800.8	793.9	793.9	793.9	780.2	769.9	773.3	780.2	790.5	821.4	879.8
72.5°	725.2	725.2	714.9	704.6	694.2	687.4	680.5	673.6	670.2	680.5	711.4
75°	656.4	659.9	656.4	646.1	632.4	618.6	604.9	591.1	574.0	567.1	570.5
77.5°	594.6	598.0	601.4	598.0	584.3	567.1	546.5	525.8	501.8	477.7	464.0
80°	539.6	546.5	549.9	546.5	536.1	522.4	498.3	474.3	439.9	409.0	374.6
82.5°	491.5	501.8	505.2	505.2	498.3	484.6	457.1	429.6	391.8	350.6	305.9
85°	453.7	460.5	467.4	467.4	464.0	450.2	422.7	391.8	354.0	305.9	257.8
87.5°	415.9	419.3	426.2	433.0	426.2	412.4	388.4	354.0	316.2	268.1	213.1
90°	378.1	381.5	388.4	395.2	391.8	378.1	357.4	326.5	285.3	233.7	178.7
92.5°	340.2	347.1	350.6	354.0	357.4	347.1	329.9	299.0	257.8	206.2	154.7
95°	312.8	312.8	319.6	323.1	326.5	316.2	302.4	271.5	233.7	185.6	134.0
97.5°	285.3	285.3	292.1	292.1	295.6	288.7	274.9	247.5	209.6	165.0	113.4
100°	257.8	261.2	264.6	268.1	268.1	264.6	250.9	223.4	189.0	147.8	99.7
102.5°	240.6	240.6	244.0	244.0	247.5	240.6	226.8	202.8	168.4	130.6	85.9
105°	223.4	223.4	226.8	226.8	223.4	216.5	202.8	182.2	151.2	113.4	75.6
107.5°	209.6	209.6	209.6	209.6	206.2	199.3	185.6	161.5	134.0	103.1	68.7
110°	199.3	195.9	195.9	192.5	189.0	178.7	165.0	144.3	120.3	89.4	58.4



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	189.0	185.6	182.2	178.7	171.8	161.5	147.8	130.6	106.5	79.0	51.6
115°	178.7	175.3	171.8	165.0	158.1	147.8	134.0	116.9	92.8	68.7	44.7
117.5°	168.4	165.0	158.1	151.2	144.3	134.0	120.3	103.1	82.5	61.9	41.2
120°	154.7	151.2	147.8	140.9	134.0	120.3	106.5	92.8	72.2	55.0	34.4
122.5°	144.3	140.9	134.0	130.6	120.3	110.0	96.2	82.5	65.3	48.1	30.9
125°	130.6	127.2	123.7	116.9	110.0	96.2	85.9	72.2	58.4	41.2	24.1
127.5°	120.3	116.9	110.0	103.1	96.2	85.9	75.6	65.3	51.6	34.4	24.1
130°	106.5	103.1	99.7	92.8	85.9	75.6	68.7	55.0	44.7	30.9	20.6
132.5°	92.8	92.8	89.4	82.5	75.6	68.7	58.4	48.1	37.8	27.5	17.2
135°	85.9	82.5	79.0	72.2	68.7	58.4	51.6	41.2	30.9	24.1	13.7
137.5°	75.6	72.2	68.7	65.3	58.4	51.6	44.7	34.4	27.5	20.6	13.7
140°	65.3	61.9	61.9	55.0	51.6	44.7	37.8	30.9	24.1	17.2	10.3
142.5°	58.4	55.0	51.6	48.1	44.7	37.8	30.9	24.1	20.6	13.7	10.3
145°	51.6	48.1	44.7	41.2	37.8	30.9	27.5	20.6	17.2	13.7	10.3
147.5°	41.2	41.2	37.8	34.4	30.9	27.5	24.1	20.6	13.7	10.3	6.9
150°	34.4	34.4	30.9	27.5	27.5	24.1	20.6	17.2	13.7	10.3	6.9
152.5°	30.9	27.5	27.5	24.1	24.1	20.6	17.2	13.7	10.3	10.3	6.9
155°	24.1	24.1	24.1	20.6	20.6	17.2	13.7	13.7	10.3	6.9	6.9
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	6653.7	6653.7	6653.7	6653.7	6653.7	6653.7	6653.7	6653.7	6653.7	6653.7	6653.7
2.5°	6664.0	6622.8	6657.1	6719.0	6712.1	6705.3	6698.4	6712.1	6756.8	6732.8	6694.9
5°	6653.7	6612.5	6650.3	6708.7	6705.3	6694.9	6688.1	6701.8	6746.5	6722.4	6681.2
7.5°	6633.1	6595.3	6622.8	6681.2	6681.2	6674.3	6667.5	6681.2	6722.4	6701.8	6660.6
10°	6598.7	6571.2	6598.7	6653.7	6657.1	6643.4	6636.5	6653.7	6694.9	6684.6	6650.3
12.5°	6571.2	6543.7	6574.7	6629.6	6633.1	6619.3	6609.0	6629.6	6684.6	6691.5	6681.2
15°	6533.4	6509.4	6547.2	6605.6	6605.6	6595.3	6595.3	6622.8	6698.4	6729.3	6746.5
17.5°	6478.4	6461.2	6505.9	6564.3	6567.8	6560.9	6564.3	6619.3	6719.0	6794.6	6842.7
20°	6409.7	6402.8	6450.9	6512.8	6523.1	6526.5	6543.7	6626.2	6763.7	6866.8	6914.9
22.5°	6327.2	6330.6	6385.6	6450.9	6464.7	6475.0	6509.4	6626.2	6798.1	6908.0	6928.7
25°	6234.4	6244.7	6303.1	6382.2	6399.4	6420.0	6478.4	6629.6	6808.4	6880.5	6846.2
27.5°	6134.7	6155.4	6231.0	6313.5	6334.1	6368.4	6444.1	6609.0	6760.2	6763.7	6636.5
30°	6031.6	6055.7	6145.1	6241.3	6275.7	6310.0	6402.8	6560.9	6643.4	6533.4	6310.0
32.5°	5914.8	5949.2	6038.5	6155.4	6196.6	6241.3	6334.1	6468.1	6437.2	6200.0	5880.4
35°	5767.0	5815.1	5918.2	6055.7	6093.5	6151.9	6217.2	6248.2	6110.7	5773.9	5413.0
37.5°	5584.9	5657.0	5777.3	5935.4	5976.7	6014.5	6031.6	5945.7	5670.8	5306.5	4931.9
40°	5375.2	5485.2	5615.8	5791.1	5832.3	5832.3	5770.4	5588.3	5241.2	4763.4	4347.6
42.5°	5120.9	5254.9	5419.9	5595.2	5636.4	5588.3	5440.5	5120.9	4725.6	4192.9	3753.0
45°	4811.6	4990.3	5175.9	5358.0	5378.6	5272.1	5007.5	4601.9	4113.9	3619.0	3199.7
47.5°	4443.8	4677.5	4880.3	5086.5	5059.0	4880.3	4526.3	4065.8	3550.2	3082.8	2746.0
50°	4031.4	4306.4	4533.2	4729.1	4670.7	4423.2	4007.3	3526.2	3014.1	2615.4	2337.0
52.5°	3591.5	3907.7	4134.5	4292.6	4213.6	3918.0	3460.9	3000.4	2581.1	2216.8	2031.2
55°	3134.4	3454.0	3687.7	3811.4	3708.3	3388.7	2938.5	2519.2	2124.0	1886.8	1776.8
57.5°	2691.0	2990.0	3210.0	3309.7	3179.1	2859.4	2443.6	2089.6	1804.3	1605.0	1550.0
60°	2264.9	2508.9	2718.5	2794.1	2653.2	2357.7	2000.2	1718.4	1508.8	1371.3	1343.8
62.5°	1869.6	2069.0	2233.9	2292.4	2154.9	1924.6	1615.3	1405.7	1257.9	1189.1	1154.8
65°	1543.1	1660.0	1828.4	1818.1	1735.6	1522.5	1295.7	1147.9	1051.7	1007.0	986.4
67.5°	1213.2	1319.7	1426.3	1440.0	1336.9	1189.1	1041.4	934.8	883.3	859.2	848.9
70°	938.3	1017.3	1082.6	1065.4	1010.4	917.6	824.8	766.4	745.8	735.5	735.5
72.5°	728.6	769.9	800.8	780.2	745.8	697.7	653.0	628.9	632.4	639.3	646.1
75°	563.6	574.0	580.8	560.2	553.3	522.4	519.0	522.4	543.0	563.6	574.0
77.5°	433.0	419.3	409.0	388.4	391.8	388.4	405.5	433.0	464.0	494.9	522.4
80°	333.4	302.4	278.4	257.8	268.1	285.3	319.6	360.9	402.1	436.5	470.8
82.5°	257.8	213.1	178.7	158.1	178.7	206.2	250.9	302.4	350.6	388.4	426.2
85°	199.3	147.8	106.5	85.9	106.5	147.8	195.9	254.3	305.9	347.1	384.9
87.5°	154.7	106.5	58.4	34.4	58.4	103.1	158.1	213.1	264.6	312.8	350.6
90°	123.7	72.2	27.5	6.9	30.9	72.2	123.7	178.7	230.3	281.8	319.6
92.5°	99.7	51.6	13.7	0.0	17.2	55.0	103.1	154.7	206.2	254.3	292.1
95°	82.5	41.2	10.3	0.0	13.7	41.2	82.5	134.0	182.2	230.3	261.2
97.5°	68.7	30.9	6.9	0.0	6.9	34.4	68.7	113.4	161.5	206.2	237.1
100°	58.4	27.5	6.9	0.0	6.9	27.5	58.4	99.7	140.9	182.2	213.1
102.5°	48.1	20.6	3.4	3.4	3.4	20.6	51.6	85.9	123.7	161.5	192.5
105°	44.7	17.2	3.4	3.4	3.4	17.2	44.7	75.6	110.0	144.3	171.8
107.5°	37.8	13.7	3.4	3.4	3.4	13.7	37.8	65.3	99.7	130.6	154.7
110°	30.9	13.7	3.4	3.4	3.4	13.7	30.9	58.4	85.9	113.4	137.5



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	27.5	10.3	3.4	3.4	3.4	10.3	27.5	51.6	75.6	103.1	123.7
115°	24.1	10.3	3.4	3.4	3.4	10.3	24.1	44.7	65.3	89.4	110.0
117.5°	20.6	10.3	3.4	3.4	3.4	6.9	20.6	37.8	58.4	79.0	99.7
120°	17.2	6.9	3.4	3.4	3.4	6.9	17.2	34.4	51.6	68.7	85.9
122.5°	17.2	6.9	3.4	3.4	3.4	6.9	13.7	27.5	44.7	58.4	75.6
125°	13.7	6.9	3.4	3.4	3.4	3.4	13.7	24.1	37.8	51.6	65.3
127.5°	13.7	6.9	3.4	3.4	3.4	3.4	10.3	20.6	30.9	44.7	58.4
130°	10.3	6.9	3.4	3.4	3.4	3.4	6.9	17.2	27.5	37.8	48.1
132.5°	10.3	6.9	3.4	3.4	3.4	3.4	6.9	13.7	20.6	30.9	41.2
135°	10.3	3.4	3.4	3.4	3.4	3.4	3.4	10.3	17.2	24.1	30.9
137.5°	6.9	3.4	3.4	3.4	3.4	3.4	3.4	6.9	13.7	17.2	27.5
140°	6.9	3.4	3.4	3.4	3.4	3.4	3.4	6.9	10.3	13.7	20.6
142.5°	6.9	3.4	3.4	3.4	3.4	3.4	3.4	3.4	6.9	10.3	17.2
145°	6.9	3.4	3.4	6.9	6.9	3.4	3.4	6.9	6.9	10.3	13.7
147.5°	6.9	3.4	3.4	3.4	3.4	3.4	3.4	3.4	6.9	6.9	10.3
150°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	10.3
152.5°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
155°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	6653.7	6653.7	6653.7	6653.7	6653.7	6653.7	6653.7	6653.7	6653.7	6653.7	6653.7
2.5°	6688.1	6609.0	6650.3	6636.5	6650.3	6684.6	6681.2	6670.9	6677.8	6660.6	6643.4
5°	6674.3	6595.3	6636.5	6619.3	6636.5	6670.9	6664.0	6653.7	6664.0	6643.4	6626.2
7.5°	6657.1	6585.0	6633.1	6629.6	6660.6	6705.3	6708.7	6708.7	6732.8	6701.8	6688.1
10°	6657.1	6619.3	6684.6	6708.7	6787.7	6846.2	6853.0	6866.8	6908.0	6901.2	6866.8
12.5°	6729.3	6722.4	6818.7	6877.1	6949.3	7031.8	7076.4	7090.2	7117.7	7097.1	7083.3
15°	6822.1	6856.5	6963.0	7028.3	7107.4	7169.2	7179.5	7186.4	7207.0	7176.1	7152.0
17.5°	6945.8	6966.5	7052.4	7079.9	7131.4	7141.7	7128.0	7093.6	7093.6	7024.9	7004.3
20°	7004.3	6994.0	7028.3	6983.6	6963.0	6901.2	6842.7	6777.4	6774.0	6701.8	6694.9
22.5°	6952.7	6884.0	6811.8	6701.8	6653.7	6564.3	6485.3	6447.5	6423.4	6330.6	6306.6
25°	6770.6	6602.2	6495.6	6365.0	6248.2	6145.1	6069.4	5990.4	5914.8	5839.2	5804.8
27.5°	6454.4	6296.3	6124.4	5942.3	5780.8	5622.7	5495.5	5416.4	5344.3	5244.6	5193.1
30°	6066.0	5846.1	5657.0	5481.7	5217.1	5024.6	4918.1	4760.0	4705.0	4660.3	4564.1
32.5°	5608.9	5344.3	5086.5	4849.4	4577.9	4399.1	4258.2	4141.4	4107.0	3990.2	3962.7
35°	5103.7	4756.6	4464.4	4230.7	4034.8	3818.3	3701.5	3622.4	3553.7	3474.6	3460.9
37.5°	4509.1	4196.4	3866.4	3660.2	3505.6	3320.0	3230.6	3175.6	3144.7	3086.3	3076.0
40°	3911.1	3598.4	3371.5	3165.3	3069.1	2969.4	2904.1	2880.1	2866.3	2845.7	2825.1
42.5°	3368.1	3093.1	2931.6	2794.1	2752.9	2704.8	2687.6	2701.3	2687.6	2680.7	2677.3
45°	2907.6	2697.9	2584.5	2543.3	2532.9	2519.2	2532.9	2557.0	2560.4	2553.6	2553.6
47.5°	2488.3	2388.6	2340.5	2347.4	2364.5	2374.9	2398.9	2429.8	2436.7	2419.5	2426.4
50°	2213.3	2154.9	2144.6	2172.1	2209.9	2223.6	2251.1	2275.2	2271.7	2264.9	2258.0
52.5°	1955.6	1938.4	1965.9	1993.4	2034.6	2041.5	2051.8	2062.1	2058.7	2044.9	2038.0
55°	1739.0	1752.8	1776.8	1787.2	1818.1	1814.6	1818.1	1818.1	1804.3	1797.5	1787.2
57.5°	1543.1	1546.6	1560.3	1563.8	1580.9	1574.1	1570.6	1563.8	1543.1	1539.7	1529.4
60°	1343.8	1336.9	1367.9	1343.8	1357.5	1343.8	1340.4	1323.2	1302.6	1299.1	1292.2
62.5°	1154.8	1141.0	1161.6	1151.3	1158.2	1144.5	1137.6	1117.0	1099.8	1096.3	1092.9
65°	986.4	979.5	1000.1	996.7	1003.6	986.4	979.5	965.7	952.0	948.6	945.1
67.5°	845.5	862.6	873.0	873.0	879.8	876.4	859.2	855.8	852.3	838.6	838.6
70°	742.4	752.7	773.3	776.7	773.3	780.2	766.4	763.0	759.5	752.7	749.2
72.5°	659.9	673.6	694.2	697.7	694.2	694.2	687.4	683.9	683.9	673.6	673.6
75°	594.6	611.8	628.9	628.9	628.9	622.1	615.2	615.2	608.3	604.9	598.0
77.5°	539.6	560.2	574.0	570.5	567.1	560.2	560.2	549.9	539.6	539.6	532.7
80°	498.3	512.1	522.4	519.0	515.5	505.2	501.8	491.5	484.6	474.3	474.3
82.5°	453.7	470.8	477.7	474.3	467.4	457.1	453.7	446.8	439.9	436.5	429.6
85°	415.9	433.0	436.5	429.6	422.7	415.9	412.4	409.0	405.5	398.7	398.7
87.5°	378.1	395.2	395.2	391.8	384.9	381.5	378.1	374.6	371.2	367.7	364.3
90°	347.1	360.9	360.9	357.4	354.0	350.6	347.1	343.7	340.2	336.8	336.8
92.5°	316.2	329.9	329.9	326.5	323.1	319.6	319.6	316.2	312.8	309.3	305.9
95°	288.7	302.4	302.4	302.4	299.0	295.6	295.6	292.1	288.7	288.7	285.3
97.5°	261.2	274.9	274.9	274.9	271.5	268.1	268.1	264.6	264.6	264.6	261.2
100°	237.1	247.5	250.9	250.9	247.5	247.5	247.5	244.0	244.0	244.0	240.6
102.5°	213.1	223.4	230.3	230.3	230.3	226.8	226.8	226.8	226.8	226.8	223.4
105°	192.5	202.8	209.6	213.1	213.1	213.1	213.1	213.1	213.1	213.1	213.1
107.5°	175.3	185.6	192.5	195.9	199.3	199.3	202.8	202.8	202.8	202.8	202.8
110°	158.1	168.4	178.7	182.2	185.6	189.0	189.0	192.5	189.0	189.0	189.0



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	140.9	154.7	161.5	168.4	171.8	175.3	178.7	178.7	178.7	178.7	178.7
115°	127.2	140.9	147.8	154.7	161.5	165.0	165.0	168.4	168.4	168.4	165.0
117.5°	113.4	127.2	134.0	140.9	144.3	151.2	154.7	154.7	154.7	154.7	151.2
120°	103.1	113.4	120.3	127.2	134.0	137.5	140.9	140.9	140.9	140.9	140.9
122.5°	89.4	99.7	110.0	116.9	120.3	123.7	127.2	127.2	127.2	127.2	127.2
125°	79.0	89.4	96.2	103.1	106.5	113.4	113.4	113.4	113.4	113.4	113.4
127.5°	68.7	79.0	85.9	92.8	96.2	99.7	103.1	103.1	103.1	103.1	103.1
130°	58.4	68.7	75.6	82.5	85.9	89.4	89.4	92.8	92.8	92.8	92.8
132.5°	51.6	58.4	65.3	72.2	75.6	79.0	79.0	82.5	82.5	82.5	82.5
135°	41.2	51.6	55.0	61.9	65.3	68.7	68.7	72.2	72.2	72.2	72.2
137.5°	34.4	41.2	48.1	55.0	58.4	58.4	61.9	61.9	65.3	65.3	65.3
140°	27.5	30.9	41.2	44.7	48.1	51.6	55.0	55.0	55.0	55.0	55.0
142.5°	20.6	27.5	30.9	37.8	41.2	44.7	48.1	48.1	48.1	48.1	48.1
145°	17.2	20.6	24.1	30.9	34.4	37.8	41.2	41.2	41.2	41.2	41.2
147.5°	13.7	17.2	20.6	24.1	27.5	30.9	34.4	34.4	34.4	34.4	34.4
150°	10.3	13.7	17.2	17.2	20.6	24.1	27.5	30.9	30.9	30.9	30.9
152.5°	10.3	10.3	13.7	13.7	17.2	20.6	24.1	24.1	24.1	24.1	24.1
155°	6.9	10.3	10.3	10.3	13.7	13.7	17.2	20.6	20.6	20.6	20.6
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	6653.7	6653.7	6653.7	6653.7	6653.7	6653.7	6653.7	6653.7	6653.7	6653.7	6653.7
2.5°	6653.7	6667.5	6660.6	6650.3	6646.8	6664.0	6646.8	6567.8	6598.7	6602.2	6626.2
5°	6643.4	6653.7	6646.8	6640.0	6629.6	6650.3	6629.6	6547.2	6578.1	6581.5	6605.6
7.5°	6712.1	6715.6	6715.6	6698.4	6670.9	6681.2	6653.7	6560.9	6578.1	6578.1	6595.3
10°	6884.0	6890.8	6901.2	6856.5	6822.1	6794.6	6756.8	6643.4	6640.0	6612.5	6612.5
12.5°	7107.4	7090.2	7073.0	7052.4	7024.9	6990.5	6935.5	6801.5	6756.8	6712.1	6667.5
15°	7172.7	7165.8	7162.4	7152.0	7134.9	7124.6	7083.3	6949.3	6884.0	6829.0	6749.9
17.5°	7000.8	7014.6	7059.3	7062.7	7083.3	7124.6	7117.7	7024.9	6966.5	6942.4	6846.2
20°	6691.5	6694.9	6749.9	6774.0	6863.4	6932.1	6983.6	6973.3	6959.6	6987.1	6914.9
22.5°	6320.3	6344.4	6402.8	6440.6	6526.5	6605.6	6688.1	6732.8	6804.9	6918.3	6904.6
25°	5815.1	5846.1	5928.5	5990.4	6110.7	6231.0	6341.0	6420.0	6505.9	6722.4	6794.6
27.5°	5210.2	5258.4	5364.9	5426.8	5595.2	5718.9	5877.0	6031.6	6151.9	6399.4	6547.2
30°	4574.4	4615.7	4729.1	4815.0	4959.3	5127.8	5327.1	5547.0	5746.4	5997.3	6182.9
32.5°	3979.9	4024.5	4117.3	4192.9	4354.5	4495.4	4715.3	4986.8	5172.4	5519.6	5767.0
35°	3460.9	3502.1	3567.4	3632.7	3766.8	3911.1	4100.1	4364.8	4601.9	4962.8	5275.5
37.5°	3096.6	3103.5	3141.3	3179.1	3278.7	3388.7	3536.5	3770.2	3990.2	4378.5	4722.2
40°	2835.4	2835.4	2856.0	2866.3	2911.0	2976.3	3069.1	3251.2	3433.4	3729.0	4148.3
42.5°	2673.9	2667.0	2667.0	2670.4	2667.0	2697.9	2752.9	2838.8	3000.4	3244.4	3570.9
45°	2553.6	2539.8	2529.5	2505.5	2491.7	2491.7	2495.1	2526.1	2618.9	2777.0	3041.6
47.5°	2419.5	2416.1	2398.9	2371.4	2347.4	2330.2	2302.7	2292.4	2319.9	2409.2	2587.9
50°	2264.9	2247.7	2230.5	2209.9	2182.4	2165.2	2113.7	2117.1	2093.0	2134.3	2227.1
52.5°	2038.0	2024.3	2017.4	2000.2	1989.9	1983.1	1941.8	1900.6	1890.3	1897.1	1931.5
55°	1787.2	1794.0	1766.5	1780.3	1776.8	1745.9	1728.7	1697.8	1687.5	1684.0	1701.2
57.5°	1526.0	1532.8	1515.6	1529.4	1529.4	1512.2	1501.9	1501.9	1477.8	1457.2	1481.3
60°	1288.8	1275.1	1285.4	1302.6	1302.6	1292.2	1285.4	1285.4	1268.2	1261.3	1278.5
62.5°	1096.3	1082.6	1092.9	1110.1	1113.5	1106.7	1099.8	1099.8	1079.2	1079.2	1092.9
65°	948.6	952.0	948.6	962.3	962.3	965.7	958.9	952.0	927.9	938.3	934.8
67.5°	842.0	838.6	838.6	852.3	848.9	855.8	848.9	838.6	821.4	807.7	804.2
70°	752.7	749.2	749.2	756.1	759.5	759.5	756.1	749.2	725.2	711.4	701.1
72.5°	673.6	670.2	673.6	677.1	680.5	683.9	680.5	673.6	653.0	635.8	618.6
75°	601.4	598.0	608.3	608.3	611.8	611.8	615.2	611.8	594.6	574.0	553.3
77.5°	529.3	532.7	543.0	546.5	553.3	556.8	560.2	560.2	543.0	525.8	498.3
80°	470.8	477.7	484.6	488.0	494.9	505.2	508.7	512.1	498.3	481.2	450.2
82.5°	429.6	433.0	439.9	443.4	453.7	457.1	460.5	467.4	460.5	443.4	409.0
85°	395.2	398.7	405.5	405.5	412.4	419.3	422.7	426.2	422.7	405.5	371.2
87.5°	364.3	367.7	371.2	374.6	378.1	381.5	384.9	388.4	384.9	367.7	336.8
90°	336.8	336.8	340.2	340.2	343.7	347.1	354.0	354.0	350.6	336.8	305.9
92.5°	305.9	309.3	309.3	312.8	316.2	319.6	323.1	323.1	319.6	305.9	278.4
95°	285.3	285.3	288.7	288.7	292.1	292.1	295.6	295.6	292.1	278.4	250.9
97.5°	261.2	261.2	261.2	261.2	264.6	264.6	268.1	268.1	264.6	250.9	226.8
100°	240.6	240.6	240.6	240.6	240.6	244.0	244.0	244.0	240.6	226.8	202.8
102.5°	223.4	223.4	223.4	223.4	223.4	223.4	223.4	223.4	216.5	206.2	182.2
105°	213.1	213.1	213.1	209.6	209.6	209.6	206.2	206.2	195.9	185.6	165.0
107.5°	199.3	199.3	199.3	195.9	195.9	192.5	189.0	189.0	178.7	168.4	147.8
110°	189.0	189.0	189.0	185.6	182.2	178.7	175.3	171.8	161.5	147.8	130.6



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	178.7	178.7	175.3	175.3	171.8	168.4	161.5	158.1	147.8	134.0	116.9
115°	165.0	165.0	165.0	161.5	158.1	154.7	151.2	144.3	134.0	120.3	103.1
117.5°	151.2	151.2	151.2	147.8	144.3	140.9	137.5	130.6	120.3	106.5	92.8
120°	137.5	137.5	137.5	134.0	130.6	127.2	123.7	116.9	106.5	96.2	79.0
122.5°	127.2	127.2	123.7	120.3	116.9	113.4	110.0	103.1	96.2	82.5	68.7
125°	113.4	113.4	110.0	110.0	106.5	103.1	99.7	92.8	82.5	72.2	61.9
127.5°	103.1	99.7	99.7	99.7	96.2	92.8	85.9	82.5	72.2	61.9	51.6
130°	89.4	89.4	89.4	85.9	85.9	82.5	75.6	68.7	61.9	55.0	44.7
132.5°	79.0	79.0	79.0	79.0	75.6	72.2	65.3	61.9	55.0	44.7	37.8
135°	72.2	72.2	68.7	68.7	65.3	61.9	58.4	51.6	44.7	37.8	30.9
137.5°	61.9	61.9	61.9	58.4	58.4	55.0	48.1	44.7	41.2	34.4	27.5
140°	55.0	55.0	51.6	51.6	48.1	48.1	44.7	37.8	34.4	27.5	24.1
142.5°	48.1	48.1	44.7	44.7	41.2	41.2	37.8	34.4	27.5	24.1	17.2
145°	41.2	41.2	37.8	37.8	37.8	34.4	30.9	27.5	24.1	20.6	17.2
147.5°	34.4	34.4	34.4	30.9	30.9	27.5	27.5	24.1	20.6	17.2	13.7
150°	30.9	30.9	27.5	27.5	27.5	24.1	20.6	20.6	17.2	13.7	10.3
152.5°	24.1	24.1	24.1	24.1	20.6	20.6	17.2	17.2	13.7	10.3	10.3
155°	20.6	20.6	20.6	17.2	17.2	17.2	13.7	13.7	10.3	10.3	6.9
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	6653.7	6653.7	6653.7	6653.7	6653.7	6653.7	6653.7
2.5°	6615.9	6612.5	6643.4	6640.0	6598.7	6660.6	6701.8
5°	6598.7	6595.3	6622.8	6629.6	6585.0	6650.3	6694.9
7.5°	6585.0	6581.5	6612.5	6622.8	6578.1	6636.5	6684.6
10°	6588.4	6571.2	6598.7	6605.6	6564.3	6626.2	6667.5
12.5°	6612.5	6571.2	6581.5	6581.5	6543.7	6598.7	6643.4
15°	6670.9	6585.0	6571.2	6560.9	6512.8	6564.3	6609.0
17.5°	6736.2	6619.3	6571.2	6536.9	6478.4	6523.1	6571.2
20°	6801.5	6657.1	6578.1	6523.1	6444.1	6485.3	6519.7
22.5°	6832.4	6691.5	6585.0	6502.5	6402.8	6423.4	6461.2
25°	6791.2	6677.8	6571.2	6471.6	6351.3	6354.7	6385.6
27.5°	6640.0	6609.0	6540.3	6440.6	6310.0	6292.8	6316.9
30°	6382.2	6468.1	6471.6	6399.4	6261.9	6227.5	6237.8
32.5°	6021.3	6213.8	6327.2	6313.5	6193.2	6145.1	6151.9
35°	5605.5	5846.1	6093.5	6176.0	6090.1	6052.3	6038.5
37.5°	5107.1	5430.2	5760.1	5962.9	5949.2	5925.1	5911.4
40°	4557.2	4945.6	5337.4	5660.5	5760.1	5760.1	5767.0
42.5°	3969.5	4423.2	4852.8	5261.8	5495.5	5547.0	5567.7
45°	3402.5	3859.6	4327.0	4797.8	5110.6	5272.1	5330.5
47.5°	2886.9	3347.5	3790.8	4306.4	4722.2	4931.9	5024.6
50°	2447.0	2790.7	3258.1	3770.2	4223.9	4481.6	4663.8
52.5°	2082.7	2350.8	2759.8	3237.5	3694.6	4048.6	4217.0
55°	1776.8	1959.0	2306.1	2718.5	3155.0	3522.8	3718.7
57.5°	1519.1	1663.4	1900.6	2244.3	2612.0	2976.3	3185.9
60°	1292.2	1391.9	1553.4	1825.0	2137.7	2450.5	2653.2
62.5°	1096.3	1161.6	1268.2	1467.5	1711.5	1955.6	2144.6
65°	945.1	972.6	1031.0	1154.8	1340.4	1526.0	1687.5
67.5°	797.3	814.5	859.2	934.8	1027.6	1161.6	1268.2
70°	687.4	687.4	690.8	735.5	783.6	869.5	945.1
72.5°	598.0	587.7	567.1	577.4	587.7	635.8	683.9
75°	525.8	501.8	467.4	453.7	446.8	453.7	481.2
77.5°	464.0	429.6	388.4	354.0	326.5	316.2	340.2
80°	412.4	371.2	323.1	278.4	233.7	209.6	220.0
82.5°	371.2	319.6	268.1	216.5	165.0	130.6	130.6
85°	326.5	278.4	223.4	168.4	116.9	72.2	65.3
87.5°	295.6	244.0	185.6	134.0	82.5	37.8	20.6
90°	264.6	213.1	158.1	106.5	58.4	17.2	0.0
92.5°	237.1	189.0	137.5	85.9	41.2	10.3	0.0
95°	213.1	168.4	116.9	72.2	34.4	6.9	3.4
97.5°	189.0	147.8	103.1	58.4	24.1	6.9	3.4
100°	171.8	130.6	89.4	48.1	20.6	3.4	3.4
102.5°	151.2	116.9	75.6	41.2	17.2	3.4	3.4
105°	134.0	103.1	65.3	34.4	13.7	3.4	3.4
107.5°	120.3	89.4	58.4	30.9	13.7	3.4	3.4
110°	106.5	79.0	51.6	27.5	10.3	3.4	3.4



TEST NUMBER: P#

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

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	96.2	68.7	44.7	24.1	6.9	3.4	3.4
115°	82.5	61.9	37.8	20.6	6.9	3.4	3.4
117.5°	72.2	51.6	34.4	17.2	6.9	3.4	3.4
120°	61.9	44.7	27.5	13.7	3.4	3.4	3.4
122.5°	55.0	37.8	24.1	13.7	3.4	3.4	3.4
125°	48.1	34.4	20.6	10.3	3.4	3.4	3.4
127.5°	41.2	27.5	17.2	6.9	3.4	3.4	3.4
130°	34.4	24.1	13.7	6.9	3.4	3.4	3.4
132.5°	27.5	20.6	13.7	6.9	3.4	3.4	3.4
135°	24.1	17.2	10.3	6.9	3.4	3.4	3.4
137.5°	20.6	13.7	6.9	6.9	6.9	3.4	3.4
140°	17.2	10.3	6.9	6.9	6.9	6.9	3.4
142.5°	13.7	10.3	6.9	6.9	6.9	6.9	3.4
145°	10.3	6.9	6.9	6.9	6.9	6.9	3.4
147.5°	10.3	6.9	6.9	6.9	6.9	6.9	3.4
150°	6.9	6.9	6.9	6.9	6.9	6.9	6.9
152.5°	6.9	6.9	6.9	6.9	6.9	6.9	6.9
155°	6.9	6.9	6.9	6.9	6.9	6.9	6.9
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)