

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-LD5-170HL-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-LD5-170HL-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: 12980.0 lumens
Efficiency: N/A
Efficacy: 104.7 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

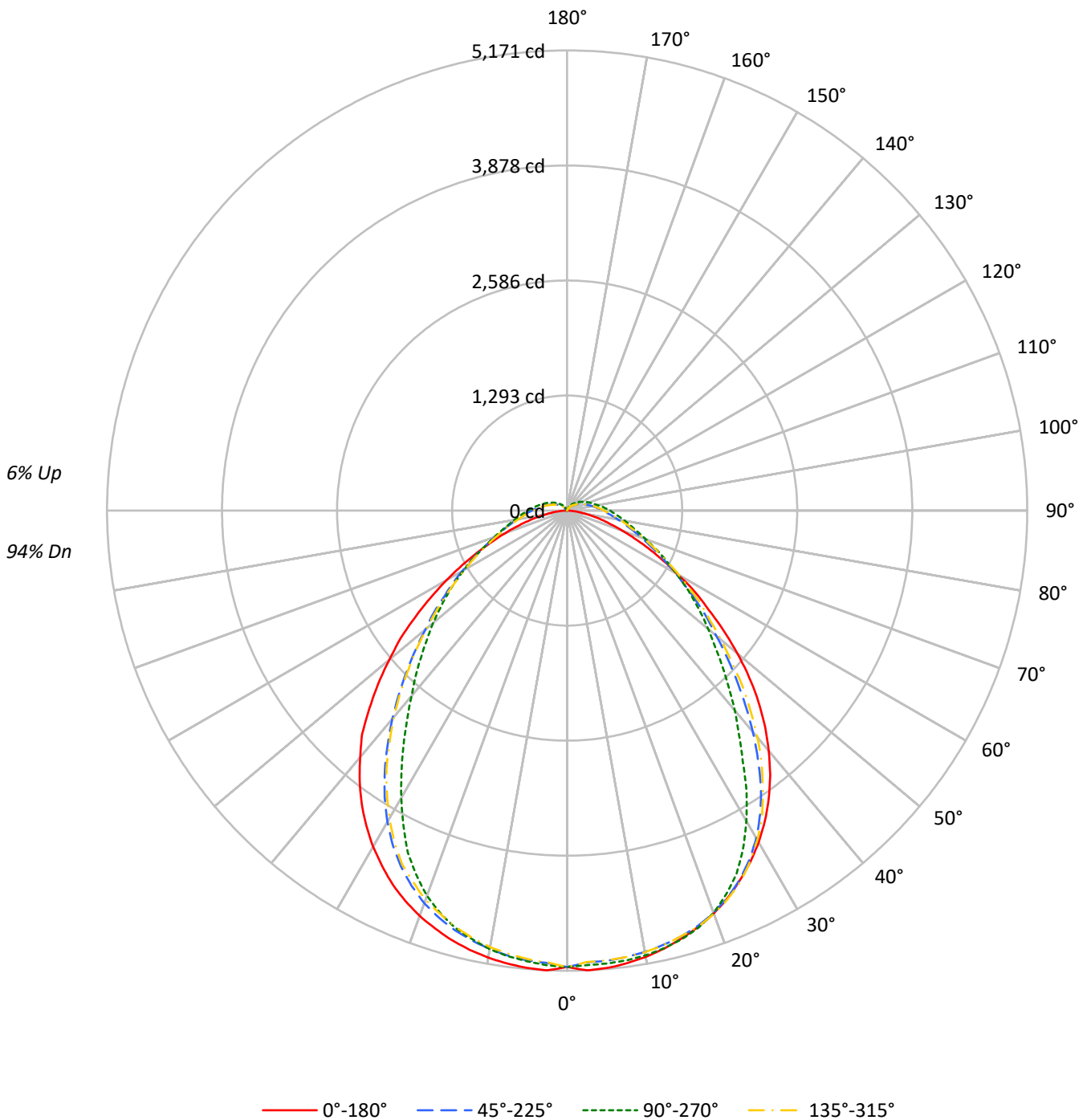
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LN-UNV-L940-CD1-U

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°	20723	20723	20723	20723
5°	20900	20064	20900	19975
10°	20835	19530	20870	19259
15°	20731	18947	20825	18454
20°	20602	18196	20723	17428
25°	20303	17083	20528	16077
30°	19907	15448	20167	14301
35°	19271	13444	19643	12518
40°	18345	11757	18830	10909
45°	17111	10221	17666	9635
50°	15408	8981	16087	8528
55°	13375	7931	14346	7530
60°	11299	6963	12320	6563
65°	9317	6156	10256	5708
70°	7478	5464	8373	5053
75°	5951	5044	6700	4641
80°	4401	4867	5185	4448
85°	2887	4895	3882	4500



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	486.3	3.7
10°-20°	1394.3	10.7
20°-30°	2066.4	15.9
30°-40°	2295.7	17.7
40°-50°	2081.0	16.0
50°-60°	1612.6	12.4
60°-70°	1095.1	8.4
70°-80°	696.7	5.4
80°-90°	445.4	3.4
90°-100°	300.3	2.3
100°-110°	205.7	1.6
110°-120°	137.2	1.1
120°-130°	85.3	0.7
130°-140°	47.2	0.4
140°-150°	22.2	0.2
150°-160°	8.1	0.1
160°-170°	0.5	0.0
170°-180°	0.0	0.0
0°-30°	3947.0	30.4
0°-40°	6242.7	48.1
0°-60°	9936.3	76.6
0°-90°	12173.5	93.8
90°-120°	643.2	5.0
90°-150°	797.9	6.1
90°-180°	807.0	6.2
0°-180°	12980.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5129	5129	5129	5129	5129	
5°	5160	5109	5160	5087	5160	490
15°	4977	4985	4999	4855	4977	1405
25°	4587	4503	4638	4237	4587	2113
35°	3950	3442	4026	3205	3950	2464
45°	3041	2460	3140	2319	3041	2336
55°	1941	1729	2082	1642	1941	1748
65°	1007	1162	1109	1078	1007	1010
75°	403	776	454	714	403	434
85°	73	559	99	514	73	88
90°	0	482	6	440	0	4
95°	3	412	0	384	3	2
105°	3	302	0	285	3	3
115°	3	228	0	212	3	3
125°	3	169	3	150	3	3
135°	3	118	3	96	3	2
145°	3	76	3	54	3	2
155°	3	42	3	20	3	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-LD5-170HL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	5128.9	5128.9	5128.9	5128.9	5128.9	5128.9	5128.9	5128.9	5128.9	5128.9	5128.9
2.5°	5171.3	5165.6	5160.0	5151.5	5160.0	5182.5	5168.4	5137.4	5131.8	5081.0	5103.5
5°	5160.0	5151.5	5145.9	5137.4	5148.7	5176.9	5162.8	5134.6	5126.1	5078.2	5103.5
7.5°	5131.8	5126.1	5117.7	5117.7	5128.9	5157.2	5145.9	5114.8	5109.2	5061.2	5089.4
10°	5092.3	5089.4	5083.8	5083.8	5095.1	5128.9	5114.8	5086.6	5081.0	5035.8	5066.9
12.5°	5041.5	5044.3	5035.8	5035.8	5052.8	5086.6	5075.3	5044.3	5038.7	4999.2	5030.2
15°	4976.6	4979.4	4973.8	4976.6	4993.5	5033.0	5018.9	4990.7	4985.1	4954.0	4979.4
17.5°	4903.2	4906.1	4906.1	4903.2	4923.0	4962.5	4951.2	4925.8	4917.4	4892.0	4923.0
20°	4818.6	4818.6	4818.6	4818.6	4841.2	4880.7	4866.6	4846.8	4829.9	4810.1	4835.5
22.5°	4714.2	4711.4	4714.2	4722.7	4745.3	4776.3	4767.8	4745.3	4719.9	4708.6	4728.3
25°	4587.3	4595.7	4598.6	4607.0	4635.2	4660.6	4652.2	4629.6	4590.1	4581.6	4587.3
27.5°	4454.7	4460.3	4468.8	4466.0	4505.5	4530.8	4513.9	4494.2	4437.7	4429.3	4423.6
30°	4305.2	4313.6	4319.3	4316.4	4347.5	4375.7	4358.8	4333.4	4257.2	4251.5	4206.4
32.5°	4135.9	4144.3	4150.0	4150.0	4195.1	4206.4	4175.4	4138.7	4056.9	4037.1	3997.6
35°	3949.7	3958.1	3961.0	3961.0	4006.1	4003.3	3963.8	3913.0	3822.7	3797.3	3729.6
37.5°	3749.4	3755.0	3757.8	3774.8	3794.5	3777.6	3726.8	3661.9	3594.2	3523.7	3450.3
40°	3523.7	3532.1	3537.8	3549.1	3568.8	3549.1	3475.7	3396.7	3323.4	3244.4	3171.0
42.5°	3292.3	3317.7	3312.1	3309.3	3320.6	3266.9	3210.5	3120.2	3046.9	2965.1	2891.7
45°	3041.3	3038.4	3052.5	3058.2	3055.4	3010.2	2931.2	2849.4	2776.1	2691.4	2629.4
47.5°	2776.1	2773.2	2784.5	2790.2	2773.2	2725.3	2663.2	2570.1	2508.0	2434.7	2386.7
50°	2496.8	2496.8	2513.7	2496.8	2488.3	2440.3	2389.6	2296.5	2248.5	2183.6	2155.4
52.5°	2217.5	2242.9	2225.9	2220.3	2211.8	2163.9	2124.4	2048.2	2008.7	1980.5	1946.6
55°	1941.0	1969.2	1957.9	1949.4	1946.6	1907.1	1870.5	1814.0	1788.6	1768.9	1749.1
57.5°	1706.8	1704.0	1698.4	1689.9	1692.7	1661.7	1625.0	1594.0	1582.7	1574.2	1579.9
60°	1436.0	1458.6	1450.1	1452.9	1455.7	1450.1	1419.1	1399.3	1402.1	1405.0	1413.4
62.5°	1213.1	1232.9	1247.0	1235.7	1241.3	1249.8	1232.9	1227.2	1238.5	1249.8	1261.1
65°	1007.2	1026.9	1041.0	1038.2	1055.1	1072.1	1069.2	1074.9	1100.3	1114.4	1128.5
67.5°	821.0	840.7	860.5	863.3	888.7	914.1	925.4	945.1	973.3	993.1	1010.0
70°	660.2	677.1	699.7	713.8	747.6	781.5	801.2	840.7	857.6	885.9	897.1
72.5°	516.3	530.4	561.4	595.3	623.5	665.8	705.3	739.2	764.5	795.6	809.7
75°	403.4	409.1	442.9	482.4	521.9	569.9	612.2	648.9	682.7	713.8	736.3
77.5°	296.2	304.7	335.7	389.3	434.5	485.2	533.2	572.7	609.4	640.4	671.4
80°	205.9	222.9	256.7	310.3	361.1	417.5	462.7	507.8	547.3	578.3	609.4
82.5°	132.6	146.7	194.7	248.3	301.9	358.3	406.3	451.4	493.7	527.6	555.8
85°	73.4	93.1	141.1	197.5	251.1	307.5	358.3	403.4	445.7	476.8	505.0
87.5°	28.2	56.4	101.6	155.2	208.8	262.4	316.0	358.3	400.6	434.5	459.9
90°	0.0	33.9	76.2	129.8	183.4	237.0	287.8	332.9	372.4	403.4	431.6
92.5°	2.8	22.6	59.2	104.4	155.2	205.9	253.9	299.0	338.5	369.6	395.0
95°	2.8	16.9	48.0	90.3	135.4	183.4	228.5	270.8	307.5	338.5	363.9
97.5°	2.8	11.3	39.5	79.0	118.5	166.5	208.8	248.3	282.1	313.2	332.9
100°	2.8	11.3	33.9	67.7	107.2	149.5	189.0	228.5	259.6	284.9	307.5
102.5°	2.8	8.5	28.2	59.2	95.9	132.6	172.1	208.8	237.0	262.4	284.9
105°	2.8	8.5	25.4	50.8	84.6	121.3	155.2	189.0	220.1	242.6	262.4
107.5°	2.8	5.6	22.6	42.3	73.4	110.0	143.9	172.1	200.3	222.9	242.6
110°	2.8	5.6	19.7	39.5	64.9	98.7	129.8	158.0	183.4	205.9	222.9



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	2.8	5.6	16.9	36.7	59.2	87.5	118.5	143.9	169.3	189.0	205.9
115°	2.8	5.6	16.9	33.9	53.6	76.2	104.4	132.6	152.3	174.9	189.0
117.5°	2.8	5.6	14.1	28.2	50.8	70.5	95.9	118.5	141.1	160.8	174.9
120°	2.8	5.6	14.1	25.4	45.1	64.9	84.6	107.2	129.8	143.9	158.0
122.5°	2.8	5.6	11.3	25.4	39.5	59.2	76.2	95.9	115.7	132.6	146.7
125°	2.8	5.6	11.3	22.6	36.7	53.6	70.5	84.6	104.4	118.5	132.6
127.5°	2.8	5.6	11.3	19.7	33.9	48.0	64.9	79.0	93.1	107.2	118.5
130°	2.8	5.6	8.5	16.9	31.0	42.3	56.4	73.4	84.6	95.9	107.2
132.5°	2.8	5.6	8.5	16.9	25.4	36.7	50.8	64.9	76.2	87.5	95.9
135°	2.8	5.6	8.5	14.1	22.6	33.9	42.3	56.4	67.7	79.0	87.5
137.5°	2.8	5.6	8.5	14.1	19.7	28.2	36.7	48.0	59.2	67.7	79.0
140°	2.8	5.6	8.5	11.3	16.9	25.4	33.9	39.5	50.8	59.2	67.7
142.5°	2.8	5.6	8.5	11.3	16.9	22.6	28.2	33.9	42.3	50.8	59.2
145°	2.8	5.6	8.5	11.3	14.1	19.7	25.4	31.0	33.9	42.3	48.0
147.5°	2.8	5.6	8.5	11.3	11.3	16.9	22.6	25.4	31.0	33.9	39.5
150°	2.8	5.6	8.5	8.5	11.3	14.1	19.7	22.6	25.4	31.0	33.9
152.5°	2.8	5.6	8.5	8.5	11.3	14.1	16.9	19.7	22.6	25.4	28.2
155°	2.8	5.6	8.5	8.5	8.5	11.3	14.1	16.9	19.7	22.6	25.4
157.5°	5.6	5.6	5.6	8.5	8.5	11.3	11.3	14.1	16.9	16.9	19.7
160°	5.6	5.6	5.6	8.5	8.5	8.5	11.3	11.3	14.1	14.1	16.9
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



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CATALOG NUMBER: 8SNLED-LD5-170HL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	5128.9	5128.9	5128.9	5128.9	5128.9	5128.9	5128.9	5128.9	5128.9	5128.9	5128.9
2.5°	5097.9	5106.4	5131.8	5131.8	5126.1	5120.5	5120.5	5112.0	5117.7	5128.9	5123.3
5°	5097.9	5106.4	5131.8	5131.8	5126.1	5120.5	5117.7	5109.2	5117.7	5128.9	5123.3
7.5°	5081.0	5092.3	5117.7	5117.7	5112.0	5109.2	5103.5	5097.9	5106.4	5117.7	5112.0
10°	5058.4	5069.7	5095.1	5095.1	5089.4	5089.4	5081.0	5075.3	5086.6	5095.1	5092.3
12.5°	5024.6	5038.7	5061.2	5058.4	5052.8	5055.6	5047.1	5035.8	5047.1	5055.6	5058.4
15°	4976.6	4993.5	5016.1	5010.5	5002.0	5007.6	4993.5	4985.1	4993.5	5010.5	5007.6
17.5°	4914.5	4925.8	4942.7	4942.7	4934.3	4928.6	4923.0	4914.5	4920.2	4931.5	4934.3
20°	4827.1	4841.2	4849.6	4841.2	4838.4	4829.9	4818.6	4810.1	4821.4	4838.4	4841.2
22.5°	4711.4	4714.2	4734.0	4714.2	4700.1	4697.3	4686.0	4669.1	4686.0	4700.1	4702.9
25°	4567.5	4581.6	4573.2	4539.3	4539.3	4516.7	4511.1	4502.6	4505.5	4530.8	4542.1
27.5°	4384.1	4389.8	4367.2	4339.0	4313.6	4299.5	4279.8	4282.6	4282.6	4316.4	4327.7
30°	4183.8	4152.8	4133.1	4087.9	4068.2	4034.3	4028.7	4028.7	4023.0	4040.0	4090.7
32.5°	3944.0	3901.7	3870.7	3828.4	3794.5	3760.7	3743.7	3752.2	3749.4	3791.7	3808.6
35°	3681.7	3656.3	3591.4	3537.8	3518.0	3467.3	3467.3	3441.9	3458.8	3506.8	3526.5
37.5°	3405.2	3365.7	3312.1	3252.8	3238.7	3199.2	3185.1	3171.0	3207.7	3216.2	3235.9
40°	3123.1	3086.4	3035.6	2979.2	2979.2	2931.2	2931.2	2931.2	2934.0	2951.0	2987.7
42.5°	2855.1	2815.6	2770.4	2730.9	2725.3	2688.6	2688.6	2685.8	2691.4	2705.5	2739.4
45°	2595.5	2564.5	2516.5	2496.8	2499.6	2460.1	2468.5	2460.1	2471.4	2485.5	2496.8
47.5°	2355.7	2336.0	2316.2	2288.0	2279.5	2276.7	2262.6	2251.3	2271.1	2271.1	2288.0
50°	2132.8	2121.5	2110.3	2093.3	2096.2	2084.9	2067.9	2067.9	2082.0	2084.9	2096.2
52.5°	1938.2	1924.1	1910.0	1912.8	1915.6	1910.0	1901.5	1893.0	1901.5	1907.1	1921.2
55°	1743.5	1732.2	1746.3	1740.7	1746.3	1740.7	1735.0	1729.4	1743.5	1735.0	1749.1
57.5°	1568.6	1579.9	1585.5	1574.2	1582.7	1577.1	1579.9	1571.4	1582.7	1588.3	1585.5
60°	1407.8	1424.7	1416.2	1419.1	1430.3	1424.7	1413.4	1421.9	1433.2	1436.0	1433.2
62.5°	1261.1	1280.8	1289.3	1283.6	1286.5	1280.8	1289.3	1278.0	1292.1	1297.8	1289.3
65°	1128.5	1151.0	1156.7	1156.7	1156.7	1151.0	1159.5	1162.3	1168.0	1168.0	1162.3
67.5°	1015.6	1035.4	1041.0	1046.7	1041.0	1035.4	1035.4	1038.2	1049.5	1055.1	1049.5
70°	914.1	933.8	936.6	936.6	939.5	945.1	933.8	939.5	947.9	950.7	947.9
72.5°	826.6	846.4	852.0	849.2	852.0	854.8	854.8	849.2	857.6	863.3	863.3
75°	756.1	767.4	773.0	773.0	775.8	778.7	778.7	775.8	781.5	784.3	787.1
77.5°	691.2	699.7	708.1	708.1	710.9	708.1	713.8	713.8	716.6	719.4	722.2
80°	626.3	637.6	643.2	646.1	651.7	654.5	654.5	654.5	657.3	660.2	660.2
82.5°	575.5	584.0	592.5	600.9	600.9	603.7	603.7	603.7	606.6	606.6	609.4
85°	524.7	536.0	544.5	550.1	553.0	555.8	555.8	558.6	558.6	558.6	561.4
87.5°	479.6	493.7	499.4	505.0	507.8	513.5	513.5	513.5	516.3	516.3	516.3
90°	448.6	462.7	468.3	474.0	476.8	479.6	479.6	482.4	482.4	485.2	485.2
92.5°	411.9	426.0	437.3	437.3	440.1	445.7	442.9	442.9	445.7	448.6	448.6
95°	383.7	395.0	403.4	406.3	409.1	409.1	409.1	411.9	409.1	411.9	411.9
97.5°	349.8	361.1	369.6	375.2	378.0	378.0	378.0	380.9	378.0	380.9	380.9
100°	321.6	332.9	341.4	344.2	349.8	349.8	349.8	349.8	349.8	349.8	352.6
102.5°	299.0	310.3	316.0	318.8	321.6	324.4	324.4	324.4	324.4	327.3	327.3
105°	276.5	287.8	293.4	296.2	299.0	301.9	301.9	301.9	304.7	304.7	301.9
107.5°	256.7	265.2	270.8	276.5	279.3	279.3	282.1	282.1	282.1	282.1	282.1
110°	237.0	245.4	253.9	259.6	259.6	262.4	262.4	265.2	265.2	262.4	265.2



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	217.2	228.5	234.2	239.8	242.6	245.4	245.4	245.4	245.4	245.4	245.4
115°	200.3	211.6	217.2	222.9	225.7	228.5	228.5	228.5	228.5	228.5	228.5
117.5°	186.2	197.5	203.1	205.9	208.8	211.6	214.4	214.4	214.4	214.4	211.6
120°	172.1	180.6	186.2	191.8	194.7	197.5	197.5	197.5	197.5	197.5	197.5
122.5°	158.0	166.5	172.1	177.7	180.6	183.4	183.4	183.4	183.4	183.4	183.4
125°	143.9	152.3	158.0	163.6	166.5	169.3	169.3	169.3	169.3	169.3	169.3
127.5°	129.8	138.2	146.7	149.5	152.3	155.2	155.2	155.2	158.0	155.2	155.2
130°	115.7	124.1	132.6	135.4	138.2	141.1	143.9	143.9	143.9	143.9	141.1
132.5°	104.4	112.8	118.5	121.3	127.0	127.0	129.8	129.8	129.8	129.8	127.0
135°	95.9	101.6	107.2	110.0	115.7	115.7	115.7	118.5	118.5	115.7	112.8
137.5°	84.6	90.3	95.9	98.7	101.6	104.4	104.4	107.2	104.4	104.4	104.4
140°	79.0	81.8	87.5	90.3	93.1	93.1	93.1	95.9	95.9	93.1	93.1
142.5°	67.7	73.4	79.0	81.8	84.6	84.6	84.6	84.6	84.6	84.6	84.6
145°	56.4	64.9	67.7	73.4	73.4	76.2	76.2	76.2	76.2	76.2	73.4
147.5°	48.0	53.6	62.1	64.9	64.9	67.7	67.7	67.7	67.7	67.7	64.9
150°	36.7	42.3	50.8	56.4	56.4	59.2	59.2	59.2	59.2	56.4	56.4
152.5°	31.0	36.7	39.5	45.1	48.0	48.0	48.0	50.8	48.0	48.0	48.0
155°	28.2	31.0	33.9	36.7	39.5	42.3	42.3	42.3	42.3	39.5	39.5
157.5°	22.6	25.4	28.2	31.0	33.9	36.7	36.7	36.7	36.7	36.7	33.9
160°	16.9	19.7	22.6	22.6	25.4	28.2	31.0	28.2	28.2	28.2	28.2
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-LD5-170HL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	5128.9	5128.9	5128.9	5128.9	5128.9	5128.9	5128.9	5128.9	5128.9	5128.9	5128.9
2.5°	5117.7	5114.8	5123.3	5109.2	5066.9	5078.2	5072.5	5097.9	5103.5	5109.2	5134.6
5°	5117.7	5114.8	5120.5	5109.2	5064.1	5072.5	5066.9	5092.3	5097.9	5100.7	5126.1
7.5°	5106.4	5103.5	5112.0	5097.9	5049.9	5061.2	5052.8	5078.2	5081.0	5083.8	5106.4
10°	5083.8	5081.0	5086.6	5075.3	5027.4	5038.7	5027.4	5052.8	5052.8	5058.4	5075.3
12.5°	5049.9	5044.3	5055.6	5041.5	4987.9	5002.0	4996.3	5013.3	5016.1	5018.9	5035.8
15°	5002.0	4996.3	5004.8	4996.3	4948.4	4951.2	4942.7	4968.1	4971.0	4965.3	4982.2
17.5°	4931.5	4925.8	4942.7	4937.1	4889.1	4900.4	4897.6	4903.2	4911.7	4897.6	4920.2
20°	4844.0	4849.6	4855.3	4858.1	4821.4	4821.4	4818.6	4829.9	4838.4	4827.1	4844.0
22.5°	4714.2	4728.3	4745.3	4750.9	4725.5	4722.7	4739.6	4734.0	4742.4	4736.8	4748.1
25°	4550.6	4578.8	4595.7	4612.7	4598.6	4604.2	4629.6	4635.2	4635.2	4632.4	4643.7
27.5°	4347.5	4384.1	4415.2	4451.9	4437.7	4449.0	4491.3	4497.0	4508.3	4497.0	4519.6
30°	4104.8	4138.7	4197.9	4251.5	4257.2	4274.1	4333.4	4339.0	4370.0	4358.8	4367.2
32.5°	3862.2	3879.1	3946.9	4000.5	4034.3	4076.6	4141.5	4152.8	4195.1	4203.6	4203.6
35°	3557.5	3605.5	3667.6	3743.7	3786.0	3831.2	3918.6	3935.6	3997.6	4017.4	4040.0
37.5°	3300.8	3345.9	3385.4	3464.4	3540.6	3591.4	3661.9	3704.2	3769.1	3805.8	3834.0
40°	3027.1	3063.8	3106.1	3185.1	3250.0	3326.2	3396.7	3447.5	3529.3	3571.6	3608.3
42.5°	2767.6	2795.8	2840.9	2897.4	2965.1	3049.7	3117.4	3176.7	3264.1	3323.4	3365.7
45°	2536.3	2553.2	2592.7	2635.0	2694.2	2781.7	2846.6	2922.8	2993.3	3055.4	3106.1
47.5°	2319.0	2341.6	2361.3	2389.6	2443.2	2496.8	2572.9	2646.3	2716.8	2784.5	2835.3
50°	2118.7	2118.7	2149.8	2169.5	2206.2	2254.1	2313.4	2364.2	2451.6	2499.6	2564.5
52.5°	1924.1	1935.3	1952.3	1963.6	1991.8	2022.8	2070.8	2113.1	2186.4	2231.6	2293.6
55°	1752.0	1763.2	1771.7	1777.4	1794.3	1831.0	1847.9	1881.7	1932.5	1969.2	2022.8
57.5°	1588.3	1594.0	1602.4	1605.3	1608.1	1630.7	1644.8	1653.2	1704.0	1740.7	1785.8
60°	1438.8	1438.8	1447.3	1444.5	1441.6	1452.9	1450.1	1458.6	1489.6	1512.2	1531.9
62.5°	1297.8	1297.8	1300.6	1294.9	1292.1	1292.1	1280.8	1289.3	1297.8	1300.6	1314.7
65°	1168.0	1182.1	1170.8	1173.6	1156.7	1151.0	1145.4	1128.5	1125.7	1114.4	1120.0
67.5°	1052.3	1063.6	1052.3	1052.3	1038.2	1026.9	1012.8	984.6	976.1	953.6	947.9
70°	959.2	950.7	956.4	947.9	931.0	916.9	897.1	874.6	846.4	818.1	798.4
72.5°	868.9	868.9	863.3	854.8	846.4	818.1	795.6	770.2	736.3	699.7	671.4
75°	781.5	784.3	784.3	775.8	761.7	736.3	710.9	674.3	637.6	595.3	558.6
77.5°	719.4	719.4	719.4	705.3	691.2	668.6	637.6	598.1	558.6	507.8	465.5
80°	660.2	657.3	657.3	640.4	626.3	600.9	569.9	530.4	488.1	434.5	386.5
82.5°	612.2	609.4	603.7	589.6	569.9	544.5	513.5	471.1	426.0	378.0	318.8
85°	561.4	558.6	553.0	538.8	519.1	496.5	462.7	420.4	375.2	321.6	265.2
87.5°	516.3	513.5	505.0	496.5	474.0	448.6	414.7	375.2	327.3	276.5	220.1
90°	485.2	479.6	474.0	462.7	442.9	414.7	380.9	338.5	290.6	239.8	183.4
92.5°	448.6	445.7	437.3	426.0	409.1	380.9	347.0	307.5	259.6	211.6	158.0
95°	411.9	409.1	403.4	392.1	375.2	349.8	318.8	279.3	234.2	186.2	138.2
97.5°	378.0	378.0	369.6	361.1	341.4	321.6	290.6	253.9	211.6	169.3	124.1
100°	349.8	349.8	341.4	330.1	316.0	296.2	265.2	231.3	191.8	152.3	107.2
102.5°	324.4	321.6	316.0	304.7	290.6	270.8	242.6	211.6	174.9	135.4	95.9
105°	301.9	299.0	293.4	282.1	270.8	248.3	225.7	194.7	158.0	121.3	84.6
107.5°	279.3	276.5	273.7	262.4	248.3	228.5	205.9	174.9	143.9	110.0	76.2
110°	259.6	256.7	251.1	239.8	225.7	208.8	186.2	160.8	129.8	98.7	67.7



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	242.6	239.8	234.2	222.9	211.6	191.8	172.1	143.9	118.5	90.3	59.2
115°	225.7	222.9	217.2	205.9	191.8	174.9	155.2	132.6	104.4	79.0	53.6
117.5°	208.8	205.9	200.3	191.8	177.7	160.8	141.1	118.5	93.1	73.4	48.0
120°	194.7	189.0	183.4	174.9	160.8	146.7	127.0	107.2	84.6	64.9	42.3
122.5°	180.6	174.9	169.3	160.8	146.7	132.6	112.8	95.9	79.0	59.2	39.5
125°	163.6	160.8	155.2	146.7	132.6	118.5	104.4	87.5	70.5	53.6	33.9
127.5°	149.5	146.7	141.1	129.8	118.5	107.2	93.1	79.0	62.1	45.1	31.0
130°	138.2	132.6	127.0	118.5	110.0	98.7	84.6	70.5	56.4	39.5	28.2
132.5°	124.1	118.5	112.8	107.2	98.7	87.5	76.2	62.1	50.8	36.7	25.4
135°	112.8	107.2	101.6	95.9	87.5	79.0	67.7	56.4	45.1	33.9	22.6
137.5°	98.7	95.9	93.1	87.5	79.0	70.5	62.1	48.0	39.5	31.0	19.7
140°	90.3	87.5	84.6	76.2	70.5	62.1	53.6	42.3	33.9	25.4	16.9
142.5°	81.8	79.0	73.4	67.7	62.1	56.4	45.1	39.5	31.0	22.6	16.9
145°	70.5	67.7	64.9	59.2	53.6	45.1	39.5	33.9	28.2	19.7	14.1
147.5°	64.9	62.1	56.4	50.8	45.1	39.5	36.7	31.0	22.6	16.9	11.3
150°	53.6	50.8	48.0	42.3	39.5	36.7	31.0	25.4	19.7	14.1	11.3
152.5°	45.1	42.3	39.5	39.5	33.9	31.0	25.4	22.6	16.9	14.1	8.5
155°	39.5	39.5	36.7	33.9	28.2	25.4	22.6	16.9	14.1	11.3	8.5
157.5°	33.9	31.0	28.2	28.2	25.4	22.6	16.9	14.1	11.3	11.3	8.5
160°	28.2	25.4	25.4	22.6	19.7	16.9	14.1	14.1	11.3	8.5	8.5
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	5128.9	5128.9	5128.9	5128.9	5128.9	5128.9	5128.9	5128.9	5128.9	5128.9	5128.9
2.5°	5137.4	5106.4	5134.6	5171.3	5171.3	5165.6	5160.0	5171.3	5199.5	5188.2	5154.3
5°	5128.9	5097.9	5123.3	5160.0	5160.0	5151.5	5145.9	5154.3	5185.4	5171.3	5140.2
7.5°	5112.0	5083.8	5100.7	5134.6	5134.6	5126.1	5120.5	5131.8	5157.2	5143.0	5109.2
10°	5081.0	5049.9	5069.7	5100.7	5097.9	5092.3	5083.8	5097.9	5120.5	5100.7	5061.2
12.5°	5041.5	5010.5	5027.4	5055.6	5052.8	5041.5	5035.8	5044.3	5064.1	5052.8	5010.5
15°	4987.9	4956.8	4971.0	4999.2	4990.7	4982.2	4971.0	4973.8	4999.2	4979.4	4934.3
17.5°	4923.0	4889.1	4900.4	4925.8	4917.4	4908.9	4894.8	4897.6	4925.8	4897.6	4849.6
20°	4844.0	4807.3	4815.8	4846.8	4832.7	4818.6	4804.5	4804.5	4832.7	4801.7	4748.1
22.5°	4759.4	4722.7	4728.3	4750.9	4739.6	4714.2	4700.1	4708.6	4722.7	4683.2	4626.8
25°	4655.0	4607.0	4615.5	4638.1	4629.6	4595.7	4581.6	4587.3	4581.6	4550.6	4491.3
27.5°	4533.7	4482.9	4488.5	4502.6	4491.3	4460.3	4443.4	4446.2	4434.9	4395.4	4327.7
30°	4381.3	4355.9	4353.1	4361.6	4344.6	4313.6	4293.9	4288.2	4285.4	4229.0	4147.2
32.5°	4226.2	4203.6	4189.5	4200.8	4181.0	4150.0	4116.1	4116.1	4087.9	4034.3	3963.8
35°	4068.2	4031.5	4017.4	4025.9	4003.3	3963.8	3935.6	3921.5	3879.1	3811.4	3735.3
37.5°	3865.0	3839.7	3822.7	3831.2	3805.8	3777.6	3724.0	3709.9	3664.7	3571.6	3475.7
40°	3645.0	3625.2	3608.3	3616.8	3588.6	3546.2	3498.3	3475.7	3424.9	3320.6	3244.4
42.5°	3408.0	3399.5	3379.8	3410.8	3354.4	3312.1	3264.1	3227.5	3176.7	3063.8	2976.4
45°	3156.9	3176.7	3131.5	3140.0	3103.3	3066.6	3015.9	2962.3	2911.5	2804.3	2705.5
47.5°	2891.7	2905.8	2874.8	2880.4	2840.9	2807.1	2762.0	2694.2	2637.8	2544.7	2457.3
50°	2618.1	2612.4	2612.4	2606.8	2575.8	2533.4	2488.3	2426.2	2369.8	2285.2	2211.8
52.5°	2327.5	2338.8	2344.4	2358.5	2319.0	2293.6	2223.1	2169.5	2127.2	2039.7	1977.7
55°	2048.2	2087.7	2076.4	2082.0	2036.9	2017.2	1960.7	1918.4	1856.3	1805.6	1766.1
57.5°	1794.3	1802.7	1808.4	1816.9	1797.1	1757.6	1712.5	1678.6	1630.7	1588.3	1560.1
60°	1548.8	1548.8	1551.7	1565.8	1546.0	1512.2	1478.3	1452.9	1419.1	1393.7	1376.7
62.5°	1317.5	1337.2	1340.1	1328.8	1303.4	1286.5	1263.9	1249.8	1227.2	1218.8	1213.1
65°	1103.1	1103.1	1103.1	1108.7	1094.6	1083.3	1069.2	1066.4	1074.9	1063.6	1069.2
67.5°	922.5	914.1	908.4	911.2	905.6	900.0	897.1	905.6	922.5	922.5	936.6
70°	767.4	750.4	739.2	739.2	739.2	742.0	750.4	767.4	795.6	806.9	826.6
72.5°	640.4	603.7	586.8	586.8	589.6	600.9	626.3	657.3	682.7	705.3	730.7
75°	519.1	482.4	457.0	454.2	459.9	476.8	513.5	541.7	584.0	615.0	646.1
77.5°	420.4	375.2	344.2	341.4	349.8	375.2	420.4	457.0	505.0	538.8	572.7
80°	335.7	284.9	259.6	242.6	256.7	287.8	338.5	383.7	428.8	474.0	516.3
82.5°	268.0	220.1	180.6	163.6	180.6	222.9	270.8	324.4	369.6	417.5	459.9
85°	211.6	160.8	115.7	98.7	118.5	163.6	217.2	270.8	321.6	369.6	411.9
87.5°	166.5	115.7	70.5	48.0	73.4	121.3	172.1	225.7	279.3	327.3	369.6
90°	129.8	81.8	39.5	5.6	42.3	87.5	138.2	189.0	242.6	290.6	332.9
92.5°	110.0	62.1	22.6	0.0	25.4	64.9	112.8	163.6	211.6	259.6	301.9
95°	93.1	50.8	16.9	0.0	16.9	50.8	93.1	138.2	186.2	234.2	276.5
97.5°	79.0	39.5	11.3	0.0	11.3	39.5	76.2	121.3	163.6	208.8	248.3
100°	67.7	33.9	8.5	0.0	8.5	31.0	64.9	104.4	146.7	189.0	225.7
102.5°	59.2	28.2	5.6	0.0	5.6	25.4	53.6	90.3	127.0	166.5	203.1
105°	50.8	22.6	5.6	0.0	2.8	19.7	45.1	79.0	112.8	149.5	183.4
107.5°	45.1	19.7	5.6	0.0	2.8	16.9	39.5	67.7	101.6	132.6	163.6
110°	39.5	16.9	5.6	0.0	2.8	11.3	33.9	59.2	87.5	118.5	149.5



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	33.9	14.1	2.8	0.0	0.0	8.5	28.2	50.8	76.2	107.2	132.6
115°	31.0	14.1	2.8	0.0	0.0	5.6	22.6	45.1	67.7	95.9	118.5
117.5°	28.2	11.3	2.8	0.0	2.8	5.6	19.7	39.5	59.2	81.8	107.2
120°	25.4	11.3	2.8	0.0	2.8	2.8	14.1	33.9	50.8	73.4	93.1
122.5°	22.6	11.3	2.8	0.0	2.8	2.8	11.3	28.2	45.1	64.9	81.8
125°	19.7	8.5	5.6	2.8	2.8	2.8	8.5	22.6	39.5	53.6	73.4
127.5°	19.7	8.5	5.6	2.8	2.8	2.8	5.6	19.7	31.0	48.0	64.9
130°	16.9	8.5	5.6	2.8	2.8	2.8	2.8	14.1	28.2	39.5	53.6
132.5°	14.1	8.5	5.6	2.8	2.8	2.8	2.8	8.5	19.7	33.9	45.1
135°	14.1	8.5	5.6	2.8	2.8	2.8	2.8	5.6	14.1	25.4	36.7
137.5°	11.3	5.6	5.6	2.8	2.8	2.8	2.8	2.8	11.3	19.7	28.2
140°	11.3	5.6	5.6	2.8	2.8	2.8	2.8	2.8	8.5	14.1	22.6
142.5°	8.5	5.6	5.6	2.8	2.8	2.8	2.8	2.8	5.6	11.3	16.9
145°	8.5	5.6	5.6	2.8	2.8	2.8	2.8	2.8	2.8	5.6	11.3
147.5°	8.5	8.5	5.6	2.8	2.8	2.8	2.8	2.8	2.8	5.6	8.5
150°	8.5	5.6	5.6	2.8	2.8	2.8	2.8	2.8	2.8	2.8	5.6
152.5°	8.5	5.6	5.6	2.8	2.8	2.8	2.8	2.8	2.8	2.8	5.6
155°	8.5	5.6	5.6	2.8	2.8	2.8	2.8	2.8	2.8	5.6	5.6
157.5°	8.5	5.6	5.6	2.8	2.8	2.8	2.8	2.8	2.8	2.8	5.6
160°	8.5	5.6	5.6	2.8	5.6	2.8	5.6	5.6	5.6	5.6	5.6
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-LD5-170HL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	5128.9	5128.9	5128.9	5128.9	5128.9	5128.9	5128.9	5128.9	5128.9	5128.9	5128.9
2.5°	5143.0	5089.4	5117.7	5109.2	5120.5	5143.0	5140.2	5134.6	5134.6	5126.1	5114.8
5°	5126.1	5075.3	5100.7	5086.6	5100.7	5120.5	5117.7	5109.2	5114.8	5100.7	5086.6
7.5°	5092.3	5047.1	5069.7	5058.4	5069.7	5089.4	5081.0	5078.2	5083.8	5061.2	5052.8
10°	5052.8	5002.0	5027.4	5013.3	5027.4	5041.5	5035.8	5024.6	5035.8	5013.3	5004.8
12.5°	4990.7	4948.4	4965.3	4959.7	4968.1	4982.2	4971.0	4962.5	4968.1	4948.4	4931.5
15°	4923.0	4880.7	4894.8	4886.3	4892.0	4908.9	4889.1	4886.3	4880.7	4860.9	4855.3
17.5°	4835.5	4796.0	4810.1	4796.0	4804.5	4798.9	4796.0	4781.9	4781.9	4759.4	4742.4
20°	4728.3	4694.5	4686.0	4674.7	4686.0	4674.7	4657.8	4646.5	4643.7	4621.1	4607.0
22.5°	4604.2	4564.7	4570.3	4539.3	4542.1	4525.2	4497.0	4485.7	4474.4	4449.0	4429.3
25°	4454.7	4415.2	4387.0	4367.2	4341.8	4339.0	4302.3	4274.1	4271.3	4240.3	4237.4
27.5°	4285.4	4240.3	4217.7	4169.7	4138.7	4113.3	4082.3	4054.1	4040.0	4006.1	3983.5
30°	4090.7	4040.0	3983.5	3949.7	3901.7	3882.0	3828.4	3794.5	3783.2	3746.6	3729.6
32.5°	3870.7	3817.1	3771.9	3707.1	3653.5	3625.2	3571.6	3537.8	3523.7	3484.2	3461.6
35°	3630.9	3571.6	3518.0	3456.0	3413.7	3365.7	3300.8	3266.9	3235.9	3221.8	3204.9
37.5°	3379.8	3314.9	3252.8	3190.8	3154.1	3097.7	3041.3	3018.7	2982.0	2967.9	2951.0
40°	3120.2	3055.4	2996.1	2936.9	2894.6	2843.8	2793.0	2784.5	2745.0	2730.9	2719.6
42.5°	2863.5	2795.8	2728.1	2685.8	2654.7	2604.0	2570.1	2561.6	2527.8	2519.3	2519.3
45°	2632.2	2547.5	2491.1	2454.4	2429.1	2386.7	2358.5	2352.9	2324.7	2319.0	2319.0
47.5°	2383.9	2304.9	2262.6	2240.0	2217.5	2186.4	2169.5	2169.5	2141.3	2135.6	2132.8
50°	2152.6	2079.2	2048.2	2025.6	2022.8	2000.2	1986.1	1980.5	1980.5	1960.7	1963.6
52.5°	1932.5	1895.8	1870.5	1856.3	1839.4	1825.3	1814.0	1814.0	1805.6	1791.5	1797.1
55°	1729.4	1687.1	1689.9	1678.6	1670.2	1661.7	1664.5	1647.6	1644.8	1633.5	1641.9
57.5°	1526.3	1526.3	1520.6	1512.2	1498.1	1503.7	1503.7	1503.7	1489.6	1481.1	1489.6
60°	1354.2	1362.6	1348.5	1357.0	1351.4	1354.2	1348.5	1348.5	1340.1	1337.2	1340.1
62.5°	1201.8	1215.9	1210.3	1221.6	1215.9	1218.8	1224.4	1213.1	1207.5	1201.8	1207.5
65°	1066.4	1083.3	1080.5	1089.0	1091.8	1094.6	1097.4	1091.8	1086.2	1080.5	1077.7
67.5°	947.9	964.9	976.1	979.0	981.8	990.2	987.4	981.8	976.1	967.7	964.9
70°	840.7	863.3	877.4	883.0	894.3	888.7	888.7	885.9	880.2	871.8	868.9
72.5°	750.4	775.8	789.9	795.6	806.9	806.9	804.0	801.2	795.6	787.1	784.3
75°	671.4	694.0	713.8	725.0	733.5	733.5	730.7	727.9	722.2	716.6	713.8
77.5°	609.4	629.1	646.1	660.2	665.8	668.6	665.8	660.2	660.2	657.3	654.5
80°	547.3	569.9	586.8	600.9	609.4	609.4	606.6	609.4	603.7	600.9	598.1
82.5°	493.7	519.1	538.8	553.0	558.6	561.4	558.6	561.4	555.8	555.8	555.8
85°	445.7	471.1	493.7	505.0	513.5	516.3	516.3	516.3	513.5	513.5	513.5
87.5°	406.3	431.6	454.2	465.5	474.0	476.8	476.8	479.6	474.0	474.0	474.0
90°	369.6	395.0	417.5	428.8	437.3	442.9	442.9	445.7	442.9	440.1	440.1
92.5°	335.7	363.9	386.5	397.8	406.3	414.7	414.7	417.5	411.9	411.9	411.9
95°	307.5	335.7	355.5	369.6	378.0	383.7	386.5	386.5	383.7	383.7	383.7
97.5°	282.1	307.5	327.3	341.4	349.8	352.6	355.5	358.3	355.5	355.5	355.5
100°	256.7	282.1	301.9	313.2	324.4	327.3	330.1	332.9	332.9	330.1	330.1
102.5°	234.2	259.6	276.5	290.6	299.0	304.7	307.5	307.5	307.5	307.5	307.5
105°	211.6	237.0	253.9	268.0	276.5	282.1	284.9	287.8	287.8	284.9	284.9
107.5°	191.8	214.4	234.2	245.4	256.7	262.4	265.2	265.2	268.0	265.2	265.2
110°	172.1	197.5	214.4	225.7	237.0	242.6	245.4	248.3	248.3	248.3	248.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	158.0	177.7	194.7	205.9	217.2	222.9	225.7	228.5	231.3	228.5	228.5
115°	141.1	160.8	177.7	189.0	197.5	203.1	208.8	211.6	211.6	214.4	211.6
117.5°	127.0	143.9	160.8	172.1	180.6	189.0	191.8	194.7	197.5	194.7	194.7
120°	112.8	129.8	143.9	155.2	163.6	172.1	174.9	177.7	180.6	177.7	177.7
122.5°	101.6	115.7	129.8	141.1	149.5	155.2	160.8	160.8	163.6	163.6	163.6
125°	90.3	104.4	115.7	127.0	135.4	141.1	143.9	146.7	146.7	149.5	149.5
127.5°	79.0	90.3	104.4	112.8	121.3	127.0	129.8	132.6	132.6	135.4	135.4
130°	67.7	79.0	90.3	98.7	107.2	112.8	115.7	118.5	121.3	121.3	121.3
132.5°	59.2	70.5	79.0	87.5	93.1	98.7	104.4	107.2	107.2	107.2	107.2
135°	48.0	59.2	67.7	76.2	81.8	87.5	90.3	95.9	95.9	95.9	95.9
137.5°	39.5	50.8	59.2	64.9	70.5	76.2	79.0	81.8	84.6	84.6	84.6
140°	31.0	39.5	48.0	56.4	62.1	64.9	70.5	70.5	73.4	73.4	73.4
142.5°	22.6	31.0	36.7	45.1	50.8	56.4	59.2	62.1	62.1	62.1	62.1
145°	16.9	22.6	28.2	33.9	42.3	45.1	48.0	50.8	53.6	53.6	53.6
147.5°	11.3	16.9	19.7	25.4	31.0	36.7	39.5	42.3	45.1	45.1	45.1
150°	8.5	11.3	16.9	19.7	22.6	28.2	33.9	33.9	36.7	36.7	33.9
152.5°	5.6	8.5	11.3	14.1	16.9	19.7	25.4	25.4	28.2	28.2	28.2
155°	5.6	5.6	5.6	8.5	11.3	14.1	16.9	19.7	19.7	19.7	19.7
157.5°	5.6	5.6	5.6	5.6	5.6	8.5	11.3	14.1	14.1	14.1	14.1
160°	5.6	5.6	2.8	2.8	5.6	5.6	5.6	5.6	8.5	8.5	8.5
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	5128.9	5128.9	5128.9	5128.9	5128.9	5128.9	5128.9	5128.9	5128.9	5128.9	5128.9
2.5°	5123.3	5128.9	5128.9	5123.3	5120.5	5131.8	5117.7	5064.1	5081.0	5086.6	5103.5
5°	5097.9	5103.5	5103.5	5103.5	5097.9	5109.2	5095.1	5041.5	5061.2	5069.7	5081.0
7.5°	5061.2	5064.1	5069.7	5066.9	5061.2	5078.2	5064.1	5010.5	5024.6	5038.7	5052.8
10°	5013.3	5013.3	5016.1	5021.7	5016.1	5030.2	5016.1	4968.1	4982.2	4990.7	5007.6
12.5°	4948.4	4954.0	4956.8	4954.0	4951.2	4962.5	4956.8	4911.7	4917.4	4934.3	4951.2
15°	4860.9	4860.9	4875.0	4869.4	4869.4	4880.7	4886.3	4835.5	4844.0	4869.4	4886.3
17.5°	4753.7	4756.5	4767.8	4773.5	4770.6	4790.4	4793.2	4753.7	4750.9	4781.9	4798.9
20°	4615.5	4621.1	4635.2	4646.5	4646.5	4669.1	4677.5	4652.2	4655.0	4688.8	4694.5
22.5°	4446.2	4446.2	4471.6	4488.5	4502.6	4516.7	4542.1	4519.6	4519.6	4564.7	4590.1
25°	4237.4	4257.2	4265.7	4299.5	4319.3	4358.8	4381.3	4384.1	4387.0	4429.3	4446.2
27.5°	4006.1	4011.7	4037.1	4076.6	4099.2	4135.9	4178.2	4186.7	4200.8	4257.2	4282.6
30°	3743.7	3760.7	3771.9	3828.4	3859.4	3907.4	3961.0	3980.7	3992.0	4068.2	4099.2
32.5°	3475.7	3481.4	3529.3	3560.4	3597.0	3647.8	3709.9	3746.6	3769.1	3848.1	3893.3
35°	3207.7	3219.0	3258.5	3298.0	3334.7	3385.4	3450.3	3501.1	3540.6	3611.1	3670.4
37.5°	2962.3	2990.5	2998.9	3038.4	3066.6	3117.4	3162.6	3235.9	3275.4	3348.8	3424.9
40°	2742.2	2750.7	2756.3	2795.8	2815.6	2863.5	2928.4	2976.4	3030.0	3083.6	3173.8
42.5°	2525.0	2530.6	2539.1	2561.6	2584.2	2618.1	2666.0	2714.0	2770.4	2849.4	2908.7
45°	2324.7	2330.3	2336.0	2350.1	2369.8	2400.8	2431.9	2465.7	2522.2	2589.9	2651.9
47.5°	2138.5	2149.8	2149.8	2152.6	2166.7	2192.1	2214.6	2257.0	2288.0	2324.7	2395.2
50°	1960.7	1969.2	1972.0	1972.0	1980.5	1997.4	2003.1	2031.3	2059.5	2093.3	2144.1
52.5°	1794.3	1794.3	1791.5	1802.7	1802.7	1814.0	1816.9	1833.8	1853.5	1890.2	1912.8
55°	1636.3	1636.3	1644.8	1639.1	1639.1	1644.8	1641.9	1644.8	1661.7	1684.3	1704.0
57.5°	1484.0	1481.1	1489.6	1484.0	1481.1	1486.8	1492.4	1481.1	1484.0	1506.5	1506.5
60°	1331.6	1334.4	1342.9	1337.2	1337.2	1337.2	1331.6	1326.0	1320.3	1334.4	1340.1
62.5°	1210.3	1201.8	1210.3	1201.8	1207.5	1204.7	1199.0	1187.7	1190.5	1184.9	1179.3
65°	1083.3	1083.3	1086.2	1077.7	1083.3	1083.3	1074.9	1072.1	1055.1	1049.5	1035.4
67.5°	973.3	973.3	976.1	970.5	970.5	973.3	964.9	956.4	939.5	931.0	911.2
70°	877.4	877.4	877.4	874.6	874.6	874.6	868.9	857.6	840.7	826.6	801.2
72.5°	789.9	792.8	789.9	789.9	798.4	789.9	781.5	770.2	756.1	727.9	705.3
75°	719.4	722.2	719.4	719.4	719.4	716.6	713.8	696.8	679.9	657.3	623.5
77.5°	657.3	657.3	660.2	657.3	657.3	654.5	646.1	631.9	612.2	592.5	553.0
80°	598.1	600.9	603.7	606.6	600.9	598.1	589.6	578.3	553.0	530.4	490.9
82.5°	555.8	553.0	555.8	558.6	553.0	550.1	541.7	527.6	507.8	476.8	437.3
85°	513.5	510.6	510.6	513.5	510.6	505.0	496.5	482.4	462.7	431.6	392.1
87.5°	471.1	474.0	476.8	474.0	471.1	465.5	457.0	442.9	420.4	395.0	352.6
90°	440.1	440.1	440.1	440.1	437.3	431.6	423.2	406.3	386.5	355.5	318.8
92.5°	411.9	411.9	411.9	411.9	409.1	400.6	392.1	378.0	355.5	324.4	290.6
95°	383.7	386.5	383.7	383.7	378.0	375.2	361.1	347.0	327.3	296.2	259.6
97.5°	352.6	355.5	352.6	352.6	349.8	344.2	335.7	318.8	299.0	270.8	237.0
100°	330.1	330.1	327.3	327.3	324.4	318.8	307.5	293.4	273.7	245.4	211.6
102.5°	304.7	307.5	304.7	304.7	299.0	293.4	284.9	270.8	251.1	222.9	191.8
105°	284.9	284.9	282.1	282.1	276.5	270.8	262.4	245.4	228.5	203.1	172.1
107.5°	265.2	265.2	262.4	262.4	256.7	251.1	239.8	225.7	208.8	183.4	155.2
110°	245.4	245.4	245.4	242.6	237.0	228.5	220.1	205.9	189.0	166.5	138.2



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	231.3	228.5	225.7	222.9	217.2	211.6	200.3	186.2	169.3	149.5	124.1
115°	211.6	211.6	208.8	205.9	200.3	191.8	183.4	172.1	155.2	132.6	110.0
117.5°	194.7	194.7	191.8	189.0	183.4	174.9	166.5	155.2	138.2	118.5	98.7
120°	177.7	177.7	174.9	172.1	166.5	158.0	152.3	138.2	124.1	104.4	87.5
122.5°	163.6	160.8	160.8	155.2	152.3	143.9	135.4	124.1	110.0	93.1	76.2
125°	146.7	146.7	143.9	141.1	138.2	129.8	121.3	110.0	95.9	81.8	67.7
127.5°	132.6	132.6	129.8	127.0	124.1	115.7	107.2	98.7	84.6	70.5	56.4
130°	118.5	118.5	115.7	112.8	110.0	101.6	95.9	84.6	73.4	62.1	48.0
132.5°	107.2	107.2	104.4	101.6	95.9	90.3	84.6	73.4	64.9	53.6	42.3
135°	95.9	93.1	93.1	90.3	84.6	79.0	73.4	64.9	53.6	45.1	33.9
137.5°	84.6	81.8	79.0	76.2	73.4	67.7	62.1	56.4	48.0	36.7	28.2
140°	73.4	70.5	70.5	67.7	62.1	59.2	53.6	45.1	39.5	31.0	22.6
142.5°	62.1	62.1	59.2	56.4	53.6	50.8	45.1	39.5	31.0	25.4	16.9
145°	53.6	50.8	50.8	48.0	45.1	39.5	36.7	31.0	25.4	19.7	14.1
147.5°	42.3	42.3	42.3	39.5	36.7	33.9	31.0	25.4	19.7	14.1	8.5
150°	33.9	33.9	33.9	31.0	28.2	25.4	22.6	19.7	14.1	8.5	5.6
152.5°	28.2	28.2	25.4	25.4	22.6	19.7	16.9	14.1	8.5	5.6	5.6
155°	19.7	19.7	19.7	16.9	16.9	14.1	11.3	8.5	5.6	5.6	5.6
157.5°	14.1	14.1	14.1	11.3	11.3	8.5	8.5	5.6	5.6	5.6	5.6
160°	8.5	8.5	8.5	8.5	5.6	5.6	5.6	5.6	5.6	5.6	5.6
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-LD5-170HL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	5128.9	5128.9	5128.9	5128.9	5128.9	5128.9	5128.9
2.5°	5095.1	5092.3	5114.8	5114.8	5089.4	5128.9	5171.3
5°	5078.2	5075.3	5097.9	5097.9	5075.3	5114.8	5160.0
7.5°	5044.3	5047.1	5069.7	5075.3	5047.1	5083.8	5131.8
10°	5007.6	5004.8	5030.2	5035.8	5013.3	5047.1	5092.3
12.5°	4948.4	4948.4	4973.8	4982.2	4959.7	4999.2	5041.5
15°	4886.3	4886.3	4903.2	4917.4	4897.6	4934.3	4976.6
17.5°	4807.3	4804.5	4821.4	4838.4	4818.6	4858.1	4903.2
20°	4705.8	4705.8	4725.5	4745.3	4731.2	4767.8	4818.6
22.5°	4598.6	4587.3	4621.1	4635.2	4626.8	4663.4	4714.2
25°	4463.1	4460.3	4494.2	4513.9	4502.6	4542.1	4587.3
27.5°	4316.4	4313.6	4347.5	4372.9	4367.2	4403.9	4454.7
30°	4138.7	4152.8	4183.8	4226.2	4212.1	4251.5	4305.2
32.5°	3952.5	3966.6	4003.3	4048.4	4051.2	4082.3	4135.9
35°	3729.6	3766.3	3791.7	3850.9	3862.2	3893.3	3949.7
37.5°	3495.5	3537.8	3591.4	3636.5	3659.1	3684.5	3749.4
40°	3233.1	3295.2	3354.4	3408.0	3436.2	3461.6	3523.7
42.5°	2996.1	3044.1	3100.5	3154.1	3204.9	3227.5	3292.3
45°	2728.1	2784.5	2835.3	2900.2	2951.0	2976.4	3041.3
47.5°	2465.7	2522.2	2589.9	2635.0	2688.6	2714.0	2776.1
50°	2214.6	2265.4	2321.8	2375.5	2420.6	2443.2	2496.8
52.5°	1966.4	2020.0	2073.6	2107.4	2155.4	2172.3	2217.5
55°	1746.3	1783.0	1831.0	1850.7	1898.7	1910.0	1941.0
57.5°	1534.7	1560.1	1577.1	1610.9	1644.8	1670.2	1706.8
60°	1342.9	1354.2	1365.5	1385.2	1413.4	1421.9	1436.0
62.5°	1170.8	1168.0	1190.5	1196.2	1199.0	1227.2	1213.1
65°	1018.5	1021.3	1001.5	993.1	1004.3	1012.8	1007.2
67.5°	891.5	874.6	857.6	837.9	821.0	829.4	821.0
70°	767.4	753.3	725.0	696.8	685.6	668.6	660.2
72.5°	668.6	634.8	606.6	569.9	550.1	530.4	516.3
75°	592.5	544.5	505.0	465.5	437.3	409.1	403.4
77.5°	513.5	468.3	423.2	380.9	338.5	307.5	296.2
80°	451.4	409.1	355.5	304.7	259.6	220.1	205.9
82.5°	395.0	349.8	296.2	242.6	191.8	149.5	132.6
85°	347.0	299.0	245.4	191.8	141.1	95.9	73.4
87.5°	310.3	256.7	203.1	152.3	98.7	53.6	28.2
90°	276.5	225.7	174.9	121.3	70.5	28.2	0.0
92.5°	245.4	197.5	146.7	98.7	53.6	16.9	2.8
95°	217.2	174.9	124.1	79.0	39.5	11.3	2.8
97.5°	194.7	152.3	107.2	64.9	31.0	8.5	2.8
100°	174.9	132.6	93.1	53.6	25.4	5.6	2.8
102.5°	155.2	118.5	79.0	45.1	19.7	2.8	2.8
105°	138.2	104.4	67.7	39.5	16.9	2.8	2.8
107.5°	124.1	93.1	59.2	33.9	11.3	2.8	2.8
110°	110.0	79.0	50.8	28.2	8.5	2.8	2.8



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	98.7	70.5	45.1	22.6	5.6	2.8	2.8
115°	87.5	62.1	39.5	19.7	5.6	2.8	2.8
117.5°	76.2	53.6	33.9	14.1	2.8	2.8	2.8
120°	67.7	48.0	28.2	11.3	2.8	2.8	2.8
122.5°	59.2	39.5	22.6	8.5	2.8	2.8	2.8
125°	50.8	33.9	19.7	5.6	2.8	2.8	2.8
127.5°	42.3	28.2	14.1	5.6	2.8	2.8	2.8
130°	36.7	22.6	11.3	2.8	2.8	2.8	2.8
132.5°	31.0	16.9	8.5	2.8	2.8	2.8	2.8
135°	25.4	14.1	5.6	2.8	2.8	2.8	2.8
137.5°	19.7	11.3	5.6	2.8	2.8	2.8	2.8
140°	14.1	8.5	2.8	2.8	2.8	2.8	2.8
142.5°	11.3	5.6	2.8	2.8	2.8	2.8	2.8
145°	8.5	5.6	2.8	2.8	2.8	2.8	2.8
147.5°	5.6	5.6	5.6	5.6	2.8	2.8	2.8
150°	5.6	5.6	2.8	2.8	5.6	2.8	2.8
152.5°	5.6	2.8	2.8	2.8	5.6	2.8	2.8
155°	5.6	5.6	5.6	5.6	5.6	5.6	2.8
157.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6
160°	5.6	5.6	5.6	5.6	5.6	5.6	5.6
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)