

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-LN-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33519)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNLED-LD5-200HL-LN-UNV-L950-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

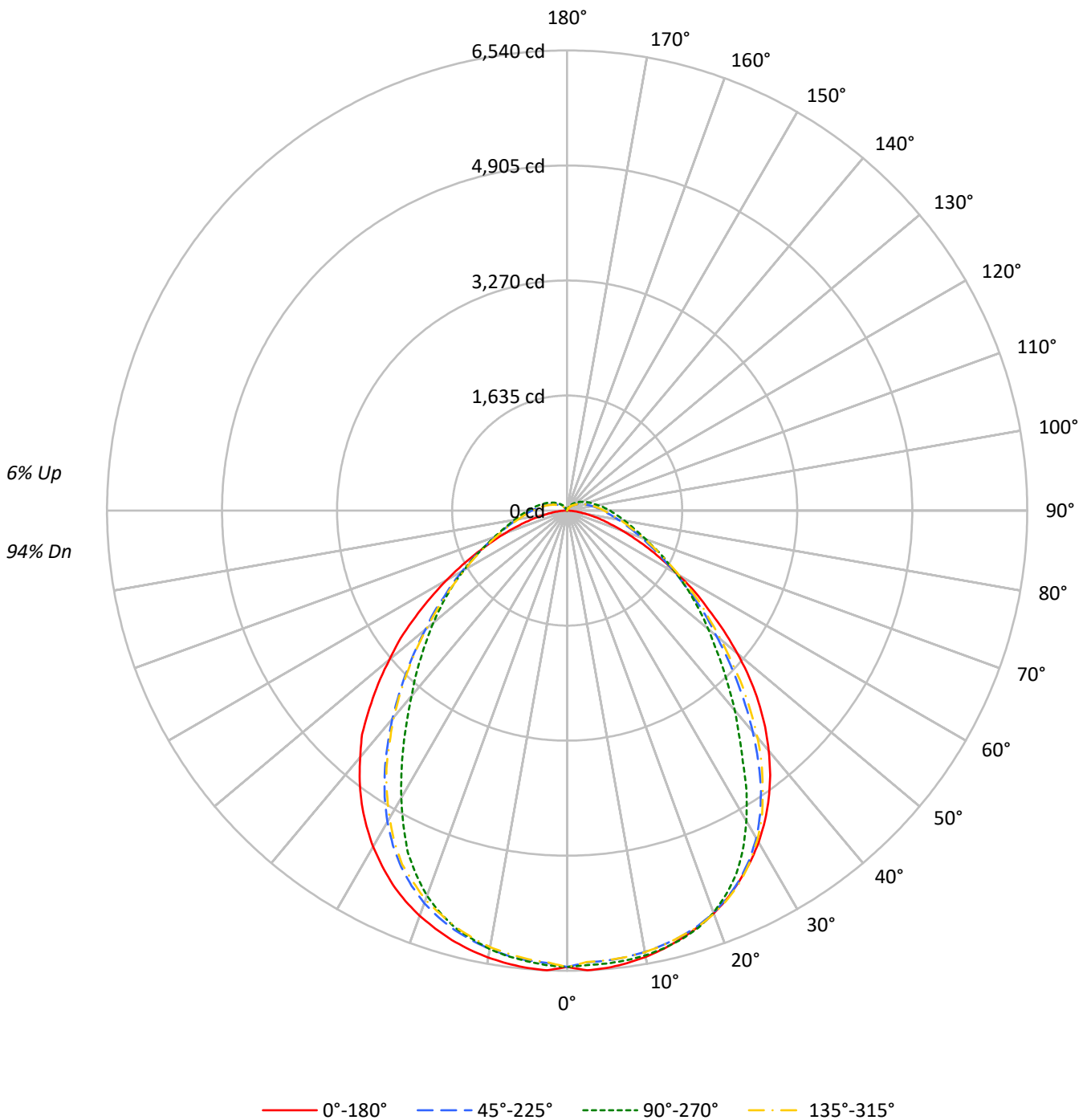
Lumens per Lamp: N/A
Luminaire Lumens: 16415.0 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

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



TEST NUMBER: P#
CATALOG NUMBER: 8SNLED-LD5-200HL-LN-UNV-L950-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°	26208	26208	26208	26208
5°	26431	25373	26431	25261
10°	26349	24699	26393	24356
15°	26217	23961	26335	23337
20°	26054	23012	26207	22040
25°	25676	21604	25960	20332
30°	25175	19536	25504	18086
35°	24371	17001	24841	15831
40°	23200	14869	23813	13796
45°	21639	12925	22342	12184
50°	19485	11358	20343	10785
55°	16914	10030	18143	9523
60°	14288	8806	15580	8299
65°	11783	7786	12970	7219
70°	9457	6910	10589	6391
75°	7526	6379	8473	5870
80°	5566	6155	6558	5625
85°	3650	6190	4913	5690



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	614.9	3.7
10°-20°	1763.3	10.7
20°-30°	2613.3	15.9
30°-40°	2903.3	17.7
40°-50°	2631.8	16.0
50°-60°	2039.3	12.4
60°-70°	1384.9	8.4
70°-80°	881.1	5.4
80°-90°	563.3	3.4
90°-100°	379.8	2.3
100°-110°	260.1	1.6
110°-120°	173.5	1.1
120°-130°	107.9	0.7
130°-140°	59.7	0.4
140°-150°	28.0	0.2
150°-160°	10.3	0.1
160°-170°	0.6	0.0
170°-180°	0.0	0.0
0°-30°	4991.5	30.4
0°-40°	7894.7	48.1
0°-60°	12565.8	76.6
0°-90°	15395.0	93.8
90°-120°	813.4	5.0
90°-150°	1009.1	6.1
90°-180°	1020.0	6.2
0°-180°	16415.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	6486	6486	6486	6486	6486	
5°	6526	6461	6526	6433	6526	620
15°	6294	6304	6322	6140	6294	1776
25°	5801	5694	5866	5359	5801	2672
35°	4995	4353	5091	4053	4995	3116
45°	3846	3111	3971	2933	3846	2954
55°	2455	2187	2633	2076	2455	2210
65°	1274	1470	1402	1363	1274	1277
75°	510	981	574	903	510	549
85°	93	706	125	649	93	111
90°	0	610	7	557	0	5
95°	4	521	0	485	4	3
105°	4	382	0	360	4	4
115°	4	289	0	268	4	4
125°	4	214	4	189	4	3
135°	4	150	4	121	4	3
145°	4	96	4	68	4	2
155°	4	54	4	25	4	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-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	6486.3	6486.3	6486.3	6486.3	6486.3	6486.3	6486.3	6486.3	6486.3	6486.3	6486.3
2.5°	6539.8	6532.6	6525.5	6514.8	6525.5	6554.0	6536.2	6497.0	6489.8	6425.6	6454.1
5°	6525.5	6514.8	6507.7	6497.0	6511.2	6546.9	6529.1	6493.4	6482.7	6422.0	6454.1
7.5°	6489.8	6482.7	6472.0	6472.0	6486.3	6521.9	6507.7	6468.4	6461.3	6400.6	6436.3
10°	6439.9	6436.3	6429.2	6429.2	6443.4	6486.3	6468.4	6432.7	6425.6	6368.5	6407.8
12.5°	6375.7	6379.2	6368.5	6368.5	6389.9	6432.7	6418.5	6379.2	6372.1	6322.1	6361.4
15°	6293.6	6297.2	6290.0	6293.6	6315.0	6364.9	6347.1	6311.4	6304.3	6265.0	6297.2
17.5°	6200.8	6204.4	6204.4	6200.8	6225.8	6275.8	6261.5	6229.4	6218.7	6186.6	6225.8
20°	6093.8	6093.8	6093.8	6093.8	6122.3	6172.3	6154.4	6129.5	6108.1	6083.1	6115.2
22.5°	5961.8	5958.2	5961.8	5972.5	6001.0	6040.3	6029.6	6001.0	5968.9	5954.7	5979.6
25°	5801.2	5811.9	5815.5	5826.2	5861.9	5894.0	5883.3	5854.8	5804.8	5794.1	5801.2
27.5°	5633.5	5640.7	5651.4	5647.8	5697.8	5729.9	5708.5	5683.5	5612.1	5601.4	5594.3
30°	5444.5	5455.2	5462.3	5458.7	5498.0	5533.7	5512.2	5480.1	5383.8	5376.7	5319.6
32.5°	5230.4	5241.1	5248.2	5248.2	5305.3	5319.6	5280.3	5234.0	5130.5	5105.5	5055.6
35°	4994.9	5005.6	5009.2	5009.2	5066.3	5062.7	5012.8	4948.5	4834.4	4802.3	4716.6
37.5°	4741.6	4748.7	4752.3	4773.7	4798.7	4777.3	4713.1	4631.0	4545.4	4456.2	4363.4
40°	4456.2	4466.9	4474.0	4488.3	4513.3	4488.3	4395.5	4295.6	4202.9	4103.0	4010.2
42.5°	4163.6	4195.7	4188.6	4185.0	4199.3	4131.5	4060.2	3946.0	3853.2	3749.8	3657.0
45°	3846.1	3842.5	3860.4	3867.5	3863.9	3806.8	3706.9	3603.5	3510.7	3403.7	3325.2
47.5°	3510.7	3507.1	3521.4	3528.6	3507.1	3446.5	3368.0	3250.3	3171.8	3079.0	3018.4
50°	3157.5	3157.5	3178.9	3157.5	3146.8	3086.1	3021.9	2904.2	2843.5	2761.5	2725.8
52.5°	2804.3	2836.4	2815.0	2807.9	2797.2	2736.5	2686.6	2590.2	2540.3	2504.6	2461.8
55°	2454.6	2490.3	2476.1	2465.3	2461.8	2411.8	2365.4	2294.1	2262.0	2237.0	2212.0
57.5°	2158.5	2154.9	2147.8	2137.1	2140.7	2101.4	2055.1	2015.8	2001.5	1990.8	1998.0
60°	1816.0	1844.6	1833.8	1837.4	1841.0	1833.8	1794.6	1769.6	1773.2	1776.8	1787.5
62.5°	1534.2	1559.1	1577.0	1562.7	1569.8	1580.5	1559.1	1552.0	1566.3	1580.5	1594.8
65°	1273.7	1298.7	1316.5	1312.9	1334.4	1355.8	1352.2	1359.3	1391.4	1409.3	1427.1
67.5°	1038.2	1063.2	1088.2	1091.7	1123.9	1156.0	1170.2	1195.2	1230.9	1255.9	1277.3
70°	834.9	856.3	884.8	902.7	945.5	988.3	1013.3	1063.2	1084.6	1120.3	1134.6
72.5°	652.9	670.7	710.0	752.8	788.5	842.0	891.9	934.8	966.9	1006.1	1024.0
75°	510.2	517.3	560.1	610.1	660.0	720.7	774.2	820.6	863.4	902.7	931.2
77.5°	374.6	385.3	424.6	492.4	549.4	613.7	674.3	724.3	770.6	809.9	849.1
80°	260.4	281.9	324.7	392.5	456.7	528.0	585.1	642.2	692.2	731.4	770.6
82.5°	167.7	185.5	246.2	314.0	381.8	453.1	513.8	570.8	624.4	667.2	702.9
85°	92.8	117.7	178.4	249.7	317.5	388.9	453.1	510.2	563.7	603.0	638.6
87.5°	35.7	71.4	128.4	196.2	264.0	331.8	399.6	453.1	506.6	549.4	581.6
90°	0.0	42.8	96.3	164.1	231.9	299.7	363.9	421.0	470.9	510.2	545.9
92.5°	3.6	28.5	74.9	132.0	196.2	260.4	321.1	378.2	428.1	467.4	499.5
95°	3.6	21.4	60.7	114.2	171.3	231.9	289.0	342.5	388.9	428.1	460.2
97.5°	3.6	14.3	49.9	99.9	149.8	210.5	264.0	314.0	356.8	396.0	421.0
100°	3.6	14.3	42.8	85.6	135.6	189.1	239.0	289.0	328.2	360.3	388.9
102.5°	3.6	10.7	35.7	74.9	121.3	167.7	217.6	264.0	299.7	331.8	360.3
105°	3.6	10.7	32.1	64.2	107.0	153.4	196.2	239.0	278.3	306.8	331.8
107.5°	3.6	7.1	28.5	53.5	92.8	139.1	182.0	217.6	253.3	281.9	306.8
110°	3.6	7.1	25.0	49.9	82.1	124.9	164.1	199.8	231.9	260.4	281.9



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	3.6	7.1	21.4	46.4	74.9	110.6	149.8	182.0	214.1	239.0	260.4
115°	3.6	7.1	21.4	42.8	67.8	96.3	132.0	167.7	192.7	221.2	239.0
117.5°	3.6	7.1	17.8	35.7	64.2	89.2	121.3	149.8	178.4	203.4	221.2
120°	3.6	7.1	17.8	32.1	57.1	82.1	107.0	135.6	164.1	182.0	199.8
122.5°	3.6	7.1	14.3	32.1	49.9	74.9	96.3	121.3	146.3	167.7	185.5
125°	3.6	7.1	14.3	28.5	46.4	67.8	89.2	107.0	132.0	149.8	167.7
127.5°	3.6	7.1	14.3	25.0	42.8	60.7	82.1	99.9	117.7	135.6	149.8
130°	3.6	7.1	10.7	21.4	39.2	53.5	71.4	92.8	107.0	121.3	135.6
132.5°	3.6	7.1	10.7	21.4	32.1	46.4	64.2	82.1	96.3	110.6	121.3
135°	3.6	7.1	10.7	17.8	28.5	42.8	53.5	71.4	85.6	99.9	110.6
137.5°	3.6	7.1	10.7	17.8	25.0	35.7	46.4	60.7	74.9	85.6	99.9
140°	3.6	7.1	10.7	14.3	21.4	32.1	42.8	49.9	64.2	74.9	85.6
142.5°	3.6	7.1	10.7	14.3	21.4	28.5	35.7	42.8	53.5	64.2	74.9
145°	3.6	7.1	10.7	14.3	17.8	25.0	32.1	39.2	42.8	53.5	60.7
147.5°	3.6	7.1	10.7	14.3	14.3	21.4	28.5	32.1	39.2	42.8	49.9
150°	3.6	7.1	10.7	10.7	14.3	17.8	25.0	28.5	32.1	39.2	42.8
152.5°	3.6	7.1	10.7	10.7	14.3	17.8	21.4	25.0	28.5	32.1	35.7
155°	3.6	7.1	10.7	10.7	10.7	14.3	17.8	21.4	25.0	28.5	32.1
157.5°	7.1	7.1	7.1	10.7	10.7	14.3	14.3	17.8	21.4	21.4	25.0
160°	7.1	7.1	7.1	10.7	10.7	10.7	14.3	14.3	17.8	17.8	21.4
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	6486.3	6486.3	6486.3	6486.3	6486.3	6486.3	6486.3	6486.3	6486.3	6486.3	6486.3
2.5°	6447.0	6457.7	6489.8	6489.8	6482.7	6475.5	6475.5	6464.8	6472.0	6486.3	6479.1
5°	6447.0	6457.7	6489.8	6489.8	6482.7	6475.5	6472.0	6461.3	6472.0	6486.3	6479.1
7.5°	6425.6	6439.9	6472.0	6472.0	6464.8	6461.3	6454.1	6447.0	6457.7	6472.0	6464.8
10°	6397.1	6411.3	6443.4	6443.4	6436.3	6436.3	6425.6	6418.5	6432.7	6443.4	6439.9
12.5°	6354.2	6372.1	6400.6	6397.1	6389.9	6393.5	6382.8	6368.5	6382.8	6393.5	6397.1
15°	6293.6	6315.0	6343.5	6336.4	6325.7	6332.8	6315.0	6304.3	6315.0	6336.4	6332.8
17.5°	6215.1	6229.4	6250.8	6250.8	6240.1	6232.9	6225.8	6215.1	6222.2	6236.5	6240.1
20°	6104.5	6122.3	6133.0	6122.3	6118.8	6108.1	6093.8	6083.1	6097.4	6118.8	6122.3
22.5°	5958.2	5961.8	5986.8	5961.8	5943.9	5940.4	5926.1	5904.7	5926.1	5943.9	5947.5
25°	5776.3	5794.1	5783.4	5740.6	5740.6	5712.0	5704.9	5694.2	5697.8	5729.9	5744.2
27.5°	5544.4	5551.5	5522.9	5487.3	5455.2	5437.3	5412.3	5415.9	5415.9	5458.7	5473.0
30°	5291.0	5251.8	5226.8	5169.7	5144.8	5101.9	5094.8	5094.8	5087.7	5109.1	5173.3
32.5°	4987.8	4934.3	4895.0	4841.5	4798.7	4755.9	4734.5	4745.2	4741.6	4795.1	4816.5
35°	4656.0	4623.9	4541.8	4474.0	4449.0	4384.8	4384.8	4352.7	4374.1	4434.8	4459.7
37.5°	4306.3	4256.4	4188.6	4113.7	4095.8	4045.9	4028.0	4010.2	4056.6	4067.3	4092.3
40°	3949.6	3903.2	3838.9	3767.6	3767.6	3706.9	3706.9	3706.9	3710.5	3731.9	3778.3
42.5°	3610.6	3560.7	3503.6	3453.6	3446.5	3400.1	3400.1	3396.5	3403.7	3421.5	3464.3
45°	3282.4	3243.1	3182.5	3157.5	3161.1	3111.1	3121.8	3111.1	3125.4	3143.2	3157.5
47.5°	2979.1	2954.1	2929.2	2893.5	2882.8	2879.2	2861.4	2847.1	2872.1	2872.1	2893.5
50°	2697.3	2683.0	2668.7	2647.3	2650.9	2636.6	2615.2	2615.2	2633.0	2636.6	2650.9
52.5°	2451.1	2433.2	2415.4	2419.0	2422.5	2415.4	2404.7	2394.0	2404.7	2411.8	2429.7
55°	2204.9	2190.6	2208.5	2201.3	2208.5	2201.3	2194.2	2187.1	2204.9	2194.2	2212.0
57.5°	1983.7	1998.0	2005.1	1990.8	2001.5	1994.4	1998.0	1987.3	2001.5	2008.7	2005.1
60°	1780.3	1801.7	1791.0	1794.6	1808.9	1801.7	1787.5	1798.2	1812.4	1816.0	1812.4
62.5°	1594.8	1619.8	1630.5	1623.3	1626.9	1619.8	1630.5	1616.2	1634.1	1641.2	1630.5
65°	1427.1	1455.7	1462.8	1462.8	1462.8	1455.7	1466.4	1469.9	1477.1	1477.1	1469.9
67.5°	1284.4	1309.4	1316.5	1323.7	1316.5	1309.4	1309.4	1312.9	1327.2	1334.4	1327.2
70°	1156.0	1180.9	1184.5	1184.5	1188.1	1195.2	1180.9	1188.1	1198.8	1202.3	1198.8
72.5°	1045.4	1070.3	1077.5	1073.9	1077.5	1081.0	1081.0	1073.9	1084.6	1091.7	1091.7
75°	956.2	970.4	977.6	977.6	981.1	984.7	984.7	981.1	988.3	991.8	995.4
77.5°	874.1	884.8	895.5	895.5	899.1	895.5	902.7	902.7	906.2	909.8	913.4
80°	792.1	806.3	813.5	817.0	824.2	827.7	827.7	827.7	831.3	834.9	834.9
82.5°	727.8	738.5	749.2	759.9	759.9	763.5	763.5	763.5	767.1	767.1	770.6
85°	663.6	677.9	688.6	695.7	699.3	702.9	702.9	706.4	706.4	706.4	710.0
87.5°	606.5	624.4	631.5	638.6	642.2	649.3	649.3	649.3	652.9	652.9	652.9
90°	567.3	585.1	592.3	599.4	603.0	606.5	606.5	610.1	610.1	613.7	613.7
92.5°	520.9	538.7	553.0	553.0	556.6	563.7	560.1	560.1	563.7	567.3	567.3
95°	485.2	499.5	510.2	513.8	517.3	517.3	517.3	520.9	517.3	520.9	520.9
97.5°	442.4	456.7	467.4	474.5	478.1	478.1	478.1	481.7	478.1	481.7	481.7
100°	406.7	421.0	431.7	435.3	442.4	442.4	442.4	442.4	442.4	442.4	446.0
102.5°	378.2	392.5	399.6	403.2	406.7	410.3	410.3	410.3	410.3	413.9	413.9
105°	349.6	363.9	371.1	374.6	378.2	381.8	381.8	381.8	385.3	385.3	381.8
107.5°	324.7	335.4	342.5	349.6	353.2	353.2	356.8	356.8	356.8	356.8	356.8
110°	299.7	310.4	321.1	328.2	328.2	331.8	331.8	335.4	335.4	331.8	335.4



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	274.7	289.0	296.1	303.3	306.8	310.4	310.4	310.4	310.4	310.4	310.4
115°	253.3	267.6	274.7	281.9	285.4	289.0	289.0	289.0	289.0	289.0	289.0
117.5°	235.5	249.7	256.9	260.4	264.0	267.6	271.2	271.2	271.2	271.2	267.6
120°	217.6	228.3	235.5	242.6	246.2	249.7	249.7	249.7	249.7	249.7	249.7
122.5°	199.8	210.5	217.6	224.8	228.3	231.9	231.9	231.9	231.9	231.9	231.9
125°	182.0	192.7	199.8	206.9	210.5	214.1	214.1	214.1	214.1	214.1	214.1
127.5°	164.1	174.8	185.5	189.1	192.7	196.2	196.2	196.2	199.8	196.2	196.2
130°	146.3	157.0	167.7	171.3	174.8	178.4	182.0	182.0	182.0	182.0	178.4
132.5°	132.0	142.7	149.8	153.4	160.6	160.6	164.1	164.1	164.1	164.1	160.6
135°	121.3	128.4	135.6	139.1	146.3	146.3	146.3	149.8	149.8	146.3	142.7
137.5°	107.0	114.2	121.3	124.9	128.4	132.0	132.0	135.6	132.0	132.0	132.0
140°	99.9	103.5	110.6	114.2	117.7	117.7	117.7	121.3	121.3	117.7	117.7
142.5°	85.6	92.8	99.9	103.5	107.0	107.0	107.0	107.0	107.0	107.0	107.0
145°	71.4	82.1	85.6	92.8	92.8	96.3	96.3	96.3	96.3	96.3	92.8
147.5°	60.7	67.8	78.5	82.1	82.1	85.6	85.6	85.6	85.6	85.6	82.1
150°	46.4	53.5	64.2	71.4	71.4	74.9	74.9	74.9	74.9	71.4	71.4
152.5°	39.2	46.4	49.9	57.1	60.7	60.7	60.7	64.2	60.7	60.7	60.7
155°	35.7	39.2	42.8	46.4	49.9	53.5	53.5	53.5	53.5	49.9	49.9
157.5°	28.5	32.1	35.7	39.2	42.8	46.4	46.4	46.4	46.4	46.4	42.8
160°	21.4	25.0	28.5	28.5	32.1	35.7	39.2	35.7	35.7	35.7	35.7
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-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	6486.3	6486.3	6486.3	6486.3	6486.3	6486.3	6486.3	6486.3	6486.3	6486.3	6486.3
2.5°	6472.0	6468.4	6479.1	6461.3	6407.8	6422.0	6414.9	6447.0	6454.1	6461.3	6493.4
5°	6472.0	6468.4	6475.5	6461.3	6404.2	6414.9	6407.8	6439.9	6447.0	6450.6	6482.7
7.5°	6457.7	6454.1	6464.8	6447.0	6386.4	6400.6	6389.9	6422.0	6425.6	6429.2	6457.7
10°	6429.2	6425.6	6432.7	6418.5	6357.8	6372.1	6357.8	6389.9	6389.9	6397.1	6418.5
12.5°	6386.4	6379.2	6393.5	6375.7	6307.9	6325.7	6318.6	6340.0	6343.5	6347.1	6368.5
15°	6325.7	6318.6	6329.3	6318.6	6257.9	6261.5	6250.8	6282.9	6286.5	6279.3	6300.7
17.5°	6236.5	6229.4	6250.8	6243.6	6183.0	6197.3	6193.7	6200.8	6211.5	6193.7	6222.2
20°	6125.9	6133.0	6140.2	6143.7	6097.4	6097.4	6093.8	6108.1	6118.8	6104.5	6125.9
22.5°	5961.8	5979.6	6001.0	6008.2	5976.1	5972.5	5993.9	5986.8	5997.5	5990.3	6004.6
25°	5754.9	5790.5	5811.9	5833.3	5815.5	5822.6	5854.8	5861.9	5861.9	5858.3	5872.6
27.5°	5498.0	5544.4	5583.6	5630.0	5612.1	5626.4	5679.9	5687.1	5701.3	5687.1	5715.6
30°	5191.1	5234.0	5308.9	5376.7	5383.8	5405.2	5480.1	5487.3	5526.5	5512.2	5522.9
32.5°	4884.3	4905.7	4991.3	5059.1	5101.9	5155.5	5237.5	5251.8	5305.3	5316.0	5316.0
35°	4499.0	4559.6	4638.1	4734.5	4788.0	4845.1	4955.7	4977.1	5055.6	5080.5	5109.1
37.5°	4174.3	4231.4	4281.4	4381.3	4477.6	4541.8	4631.0	4684.5	4766.6	4813.0	4848.6
40°	3828.2	3874.6	3928.1	4028.0	4110.1	4206.4	4295.6	4359.8	4463.3	4516.8	4563.2
42.5°	3500.0	3535.7	3592.8	3664.1	3749.8	3856.8	3942.4	4017.3	4127.9	4202.9	4256.4
45°	3207.4	3228.9	3278.8	3332.3	3407.2	3517.8	3599.9	3696.2	3785.4	3863.9	3928.1
47.5°	2932.7	2961.3	2986.2	3021.9	3089.7	3157.5	3253.8	3346.6	3435.8	3521.4	3585.6
50°	2679.4	2679.4	2718.7	2743.6	2790.0	2850.7	2925.6	2989.8	3100.4	3161.1	3243.1
52.5°	2433.2	2447.5	2468.9	2483.2	2518.9	2558.1	2618.8	2672.3	2765.0	2822.1	2900.6
55°	2215.6	2229.9	2240.6	2247.7	2269.1	2315.5	2336.9	2379.7	2443.9	2490.3	2558.1
57.5°	2008.7	2015.8	2026.5	2030.1	2033.6	2062.2	2080.0	2090.7	2154.9	2201.3	2258.4
60°	1819.6	1819.6	1830.3	1826.7	1823.1	1837.4	1833.8	1844.6	1883.8	1912.3	1937.3
62.5°	1641.2	1641.2	1644.8	1637.6	1634.1	1634.1	1619.8	1630.5	1641.2	1644.8	1662.6
65°	1477.1	1494.9	1480.6	1484.2	1462.8	1455.7	1448.5	1427.1	1423.6	1409.3	1416.4
67.5°	1330.8	1345.1	1330.8	1330.8	1312.9	1298.7	1280.8	1245.2	1234.5	1205.9	1198.8
70°	1213.1	1202.3	1209.5	1198.8	1177.4	1159.5	1134.6	1106.0	1070.3	1034.7	1009.7
72.5°	1098.9	1098.9	1091.7	1081.0	1070.3	1034.7	1006.1	974.0	931.2	884.8	849.1
75°	988.3	991.8	991.8	981.1	963.3	931.2	899.1	852.7	806.3	752.8	706.4
77.5°	909.8	909.8	909.8	891.9	874.1	845.6	806.3	756.4	706.4	642.2	588.7
80°	834.9	831.3	831.3	809.9	792.1	759.9	720.7	670.7	617.2	549.4	488.8
82.5°	774.2	770.6	763.5	745.7	720.7	688.6	649.3	595.8	538.7	478.1	403.2
85°	710.0	706.4	699.3	681.4	656.5	627.9	585.1	531.6	474.5	406.7	335.4
87.5°	652.9	649.3	638.6	627.9	599.4	567.3	524.5	474.5	413.9	349.6	278.3
90°	613.7	606.5	599.4	585.1	560.1	524.5	481.7	428.1	367.5	303.3	231.9
92.5°	567.3	563.7	553.0	538.7	517.3	481.7	438.8	388.9	328.2	267.6	199.8
95°	520.9	517.3	510.2	495.9	474.5	442.4	403.2	353.2	296.1	235.5	174.8
97.5°	478.1	478.1	467.4	456.7	431.7	406.7	367.5	321.1	267.6	214.1	157.0
100°	442.4	442.4	431.7	417.4	399.6	374.6	335.4	292.6	242.6	192.7	135.6
102.5°	410.3	406.7	399.6	385.3	367.5	342.5	306.8	267.6	221.2	171.3	121.3
105°	381.8	378.2	371.1	356.8	342.5	314.0	285.4	246.2	199.8	153.4	107.0
107.5°	353.2	349.6	346.1	331.8	314.0	289.0	260.4	221.2	182.0	139.1	96.3
110°	328.2	324.7	317.5	303.3	285.4	264.0	235.5	203.4	164.1	124.9	85.6



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	306.8	303.3	296.1	281.9	267.6	242.6	217.6	182.0	149.8	114.2	74.9
115°	285.4	281.9	274.7	260.4	242.6	221.2	196.2	167.7	132.0	99.9	67.8
117.5°	264.0	260.4	253.3	242.6	224.8	203.4	178.4	149.8	117.7	92.8	60.7
120°	246.2	239.0	231.9	221.2	203.4	185.5	160.6	135.6	107.0	82.1	53.5
122.5°	228.3	221.2	214.1	203.4	185.5	167.7	142.7	121.3	99.9	74.9	49.9
125°	206.9	203.4	196.2	185.5	167.7	149.8	132.0	110.6	89.2	67.8	42.8
127.5°	189.1	185.5	178.4	164.1	149.8	135.6	117.7	99.9	78.5	57.1	39.2
130°	174.8	167.7	160.6	149.8	139.1	124.9	107.0	89.2	71.4	49.9	35.7
132.5°	157.0	149.8	142.7	135.6	124.9	110.6	96.3	78.5	64.2	46.4	32.1
135°	142.7	135.6	128.4	121.3	110.6	99.9	85.6	71.4	57.1	42.8	28.5
137.5°	124.9	121.3	117.7	110.6	99.9	89.2	78.5	60.7	49.9	39.2	25.0
140°	114.2	110.6	107.0	96.3	89.2	78.5	67.8	53.5	42.8	32.1	21.4
142.5°	103.5	99.9	92.8	85.6	78.5	71.4	57.1	49.9	39.2	28.5	21.4
145°	89.2	85.6	82.1	74.9	67.8	57.1	49.9	42.8	35.7	25.0	17.8
147.5°	82.1	78.5	71.4	64.2	57.1	49.9	46.4	39.2	28.5	21.4	14.3
150°	67.8	64.2	60.7	53.5	49.9	46.4	39.2	32.1	25.0	17.8	14.3
152.5°	57.1	53.5	49.9	49.9	42.8	39.2	32.1	28.5	21.4	17.8	10.7
155°	49.9	49.9	46.4	42.8	35.7	32.1	28.5	21.4	17.8	14.3	10.7
157.5°	42.8	39.2	35.7	35.7	32.1	28.5	21.4	17.8	14.3	14.3	10.7
160°	35.7	32.1	32.1	28.5	25.0	21.4	17.8	17.8	14.3	10.7	10.7
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-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	6486.3	6486.3	6486.3	6486.3	6486.3	6486.3	6486.3	6486.3	6486.3	6486.3	6486.3
2.5°	6497.0	6457.7	6493.4	6539.8	6539.8	6532.6	6525.5	6539.8	6575.4	6561.2	6518.4
5°	6486.3	6447.0	6479.1	6525.5	6525.5	6514.8	6507.7	6518.4	6557.6	6539.8	6500.5
7.5°	6464.8	6429.2	6450.6	6493.4	6493.4	6482.7	6475.5	6489.8	6521.9	6504.1	6461.3
10°	6425.6	6386.4	6411.3	6450.6	6447.0	6439.9	6429.2	6447.0	6475.5	6450.6	6400.6
12.5°	6375.7	6336.4	6357.8	6393.5	6389.9	6375.7	6368.5	6379.2	6404.2	6389.9	6336.4
15°	6307.9	6268.6	6286.5	6322.1	6311.4	6300.7	6286.5	6290.0	6322.1	6297.2	6240.1
17.5°	6225.8	6183.0	6197.3	6229.4	6218.7	6208.0	6190.1	6193.7	6229.4	6193.7	6133.0
20°	6125.9	6079.5	6090.2	6129.5	6111.6	6093.8	6076.0	6076.0	6111.6	6072.4	6004.6
22.5°	6018.9	5972.5	5979.6	6008.2	5993.9	5961.8	5943.9	5954.7	5972.5	5922.5	5851.2
25°	5886.9	5826.2	5836.9	5865.5	5854.8	5811.9	5794.1	5801.2	5794.1	5754.9	5679.9
27.5°	5733.4	5669.2	5676.4	5694.2	5679.9	5640.7	5619.3	5622.8	5608.6	5558.6	5473.0
30°	5540.8	5508.7	5505.1	5515.8	5494.4	5455.2	5430.2	5423.0	5419.5	5348.1	5244.7
32.5°	5344.6	5316.0	5298.2	5312.4	5287.5	5248.2	5205.4	5205.4	5169.7	5101.9	5012.8
35°	5144.8	5098.4	5080.5	5091.2	5062.7	5012.8	4977.1	4959.2	4905.7	4820.1	4723.8
37.5°	4887.9	4855.8	4834.4	4845.1	4813.0	4777.3	4709.5	4691.7	4634.6	4516.8	4395.5
40°	4609.6	4584.6	4563.2	4573.9	4538.2	4484.7	4424.1	4395.5	4331.3	4199.3	4103.0
42.5°	4309.9	4299.2	4274.2	4313.5	4242.1	4188.6	4127.9	4081.6	4017.3	3874.6	3764.0
45°	3992.4	4017.3	3960.3	3971.0	3924.6	3878.2	3814.0	3746.2	3682.0	3546.4	3421.5
47.5°	3657.0	3674.8	3635.6	3642.7	3592.8	3550.0	3492.9	3407.2	3335.9	3218.2	3107.6
50°	3310.9	3303.8	3303.8	3296.6	3257.4	3203.9	3146.8	3068.3	2996.9	2889.9	2797.2
52.5°	2943.4	2957.7	2964.8	2982.7	2932.7	2900.6	2811.4	2743.6	2690.1	2579.5	2501.0
55°	2590.2	2640.2	2625.9	2633.0	2575.9	2551.0	2479.6	2426.1	2347.6	2283.4	2233.4
57.5°	2269.1	2279.8	2287.0	2297.7	2272.7	2222.7	2165.7	2122.8	2062.2	2008.7	1973.0
60°	1958.7	1958.7	1962.3	1980.1	1955.2	1912.3	1869.5	1837.4	1794.6	1762.5	1741.1
62.5°	1666.2	1691.1	1694.7	1680.4	1648.3	1626.9	1598.4	1580.5	1552.0	1541.3	1534.2
65°	1395.0	1395.0	1395.0	1402.1	1384.3	1370.0	1352.2	1348.6	1359.3	1345.1	1352.2
67.5°	1166.7	1156.0	1148.8	1152.4	1145.3	1138.1	1134.6	1145.3	1166.7	1166.7	1184.5
70°	970.4	949.0	934.8	934.8	934.8	938.3	949.0	970.4	1006.1	1020.4	1045.4
72.5°	809.9	763.5	742.1	742.1	745.7	759.9	792.1	831.3	863.4	891.9	924.1
75°	656.5	610.1	578.0	574.4	581.6	603.0	649.3	685.0	738.5	777.8	817.0
77.5°	531.6	474.5	435.3	431.7	442.4	474.5	531.6	578.0	638.6	681.4	724.3
80°	424.6	360.3	328.2	306.8	324.7	363.9	428.1	485.2	542.3	599.4	652.9
82.5°	338.9	278.3	228.3	206.9	228.3	281.9	342.5	410.3	467.4	528.0	581.6
85°	267.6	203.4	146.3	124.9	149.8	206.9	274.7	342.5	406.7	467.4	520.9
87.5°	210.5	146.3	89.2	60.7	92.8	153.4	217.6	285.4	353.2	413.9	467.4
90°	164.1	103.5	49.9	7.1	53.5	110.6	174.8	239.0	306.8	367.5	421.0
92.5°	139.1	78.5	28.5	0.0	32.1	82.1	142.7	206.9	267.6	328.2	381.8
95°	117.7	64.2	21.4	0.0	21.4	64.2	117.7	174.8	235.5	296.1	349.6
97.5°	99.9	49.9	14.3	0.0	14.3	49.9	96.3	153.4	206.9	264.0	314.0
100°	85.6	42.8	10.7	0.0	10.7	39.2	82.1	132.0	185.5	239.0	285.4
102.5°	74.9	35.7	7.1	0.0	7.1	32.1	67.8	114.2	160.6	210.5	256.9
105°	64.2	28.5	7.1	0.0	3.6	25.0	57.1	99.9	142.7	189.1	231.9
107.5°	57.1	25.0	7.1	0.0	3.6	21.4	49.9	85.6	128.4	167.7	206.9
110°	49.9	21.4	7.1	0.0	3.6	14.3	42.8	74.9	110.6	149.8	189.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	42.8	17.8	3.6	0.0	0.0	10.7	35.7	64.2	96.3	135.6	167.7
115°	39.2	17.8	3.6	0.0	0.0	7.1	28.5	57.1	85.6	121.3	149.8
117.5°	35.7	14.3	3.6	0.0	3.6	7.1	25.0	49.9	74.9	103.5	135.6
120°	32.1	14.3	3.6	0.0	3.6	3.6	17.8	42.8	64.2	92.8	117.7
122.5°	28.5	14.3	3.6	0.0	3.6	3.6	14.3	35.7	57.1	82.1	103.5
125°	25.0	10.7	7.1	3.6	3.6	3.6	10.7	28.5	49.9	67.8	92.8
127.5°	25.0	10.7	7.1	3.6	3.6	3.6	7.1	25.0	39.2	60.7	82.1
130°	21.4	10.7	7.1	3.6	3.6	3.6	3.6	17.8	35.7	49.9	67.8
132.5°	17.8	10.7	7.1	3.6	3.6	3.6	3.6	10.7	25.0	42.8	57.1
135°	17.8	10.7	7.1	3.6	3.6	3.6	3.6	7.1	17.8	32.1	46.4
137.5°	14.3	7.1	7.1	3.6	3.6	3.6	3.6	3.6	14.3	25.0	35.7
140°	14.3	7.1	7.1	3.6	3.6	3.6	3.6	3.6	10.7	17.8	28.5
142.5°	10.7	7.1	7.1	3.6	3.6	3.6	3.6	3.6	7.1	14.3	21.4
145°	10.7	7.1	7.1	3.6	3.6	3.6	3.6	3.6	3.6	7.1	14.3
147.5°	10.7	10.7	7.1	3.6	3.6	3.6	3.6	3.6	3.6	7.1	10.7
150°	10.7	7.1	7.1	3.6	3.6	3.6	3.6	3.6	3.6	3.6	7.1
152.5°	10.7	7.1	7.1	3.6	3.6	3.6	3.6	3.6	3.6	3.6	7.1
155°	10.7	7.1	7.1	3.6	3.6	3.6	3.6	3.6	3.6	7.1	7.1
157.5°	10.7	7.1	7.1	3.6	3.6	3.6	3.6	3.6	3.6	3.6	7.1
160°	10.7	7.1	7.1	3.6	7.1	3.6	7.1	7.1	7.1	7.1	7.1
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-LD5-200HL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	6486.3	6486.3	6486.3	6486.3	6486.3	6486.3	6486.3	6486.3	6486.3	6486.3	6486.3
2.5°	6504.1	6436.3	6472.0	6461.3	6475.5	6504.1	6500.5	6493.4	6493.4	6482.7	6468.4
5°	6482.7	6418.5	6450.6	6432.7	6450.6	6475.5	6472.0	6461.3	6468.4	6450.6	6432.7
7.5°	6439.9	6382.8	6411.3	6397.1	6411.3	6436.3	6425.6	6422.0	6429.2	6400.6	6389.9
10°	6389.9	6325.7	6357.8	6340.0	6357.8	6375.7	6368.5	6354.2	6368.5	6340.0	6329.3
12.5°	6311.4	6257.9	6279.3	6272.2	6282.9	6300.7	6286.5	6275.8	6282.9	6257.9	6236.5
15°	6225.8	6172.3	6190.1	6179.4	6186.6	6208.0	6183.0	6179.4	6172.3	6147.3	6140.2
17.5°	6115.2	6065.3	6083.1	6065.3	6076.0	6068.8	6065.3	6047.4	6047.4	6018.9	5997.5
20°	5979.6	5936.8	5926.1	5911.8	5926.1	5911.8	5890.4	5876.2	5872.6	5844.0	5826.2
22.5°	5822.6	5772.7	5779.8	5740.6	5744.2	5722.7	5687.1	5672.8	5658.5	5626.4	5601.4
25°	5633.5	5583.6	5547.9	5522.9	5490.8	5487.3	5440.9	5405.2	5401.6	5362.4	5358.8
27.5°	5419.5	5362.4	5333.9	5273.2	5234.0	5201.8	5162.6	5126.9	5109.1	5066.3	5037.7
30°	5173.3	5109.1	5037.7	4994.9	4934.3	4909.3	4841.5	4798.7	4784.4	4738.0	4716.6
32.5°	4895.0	4827.2	4770.1	4688.1	4620.3	4584.6	4516.8	4474.0	4456.2	4406.2	4377.7
35°	4591.8	4516.8	4449.0	4370.5	4317.0	4256.4	4174.3	4131.5	4092.3	4074.4	4053.0
37.5°	4274.2	4192.2	4113.7	4035.2	3988.8	3917.4	3846.1	3817.5	3771.2	3753.3	3731.9
40°	3946.0	3863.9	3789.0	3714.1	3660.6	3596.3	3532.1	3521.4	3471.5	3453.6	3439.4
42.5°	3621.3	3535.7	3450.1	3396.5	3357.3	3293.1	3250.3	3239.6	3196.7	3186.0	3186.0
45°	3328.8	3221.7	3150.4	3104.0	3071.9	3018.4	2982.7	2975.5	2939.9	2932.7	2932.7
47.5°	3014.8	2914.9	2861.4	2832.8	2804.3	2765.0	2743.6	2743.6	2708.0	2700.8	2697.3
50°	2722.2	2629.5	2590.2	2561.7	2558.1	2529.6	2511.7	2504.6	2504.6	2479.6	2483.2
52.5°	2443.9	2397.6	2365.4	2347.6	2326.2	2308.4	2294.1	2294.1	2283.4	2265.6	2272.7
55°	2187.1	2133.5	2137.1	2122.8	2112.1	2101.4	2105.0	2083.6	2080.0	2065.8	2076.5
57.5°	1930.2	1930.2	1923.0	1912.3	1894.5	1901.6	1901.6	1901.6	1883.8	1873.1	1883.8
60°	1712.5	1723.2	1705.4	1716.1	1709.0	1712.5	1705.4	1705.4	1694.7	1691.1	1694.7
62.5°	1519.9	1537.7	1530.6	1544.9	1537.7	1541.3	1548.4	1534.2	1527.0	1519.9	1527.0
65°	1348.6	1370.0	1366.5	1377.2	1380.7	1384.3	1387.9	1380.7	1373.6	1366.5	1362.9
67.5°	1198.8	1220.2	1234.5	1238.0	1241.6	1252.3	1248.7	1241.6	1234.5	1223.8	1220.2
70°	1063.2	1091.7	1109.6	1116.7	1131.0	1123.9	1123.9	1120.3	1113.2	1102.4	1098.9
72.5°	949.0	981.1	999.0	1006.1	1020.4	1020.4	1016.8	1013.3	1006.1	995.4	991.8
75°	849.1	877.7	902.7	916.9	927.6	927.6	924.1	920.5	913.4	906.2	902.7
77.5°	770.6	795.6	817.0	834.9	842.0	845.6	842.0	834.9	834.9	831.3	827.7
80°	692.2	720.7	742.1	759.9	770.6	770.6	767.1	770.6	763.5	759.9	756.4
82.5°	624.4	656.5	681.4	699.3	706.4	710.0	706.4	710.0	702.9	702.9	702.9
85°	563.7	595.8	624.4	638.6	649.3	652.9	652.9	652.9	649.3	649.3	649.3
87.5°	513.8	545.9	574.4	588.7	599.4	603.0	603.0	606.5	599.4	599.4	599.4
90°	467.4	499.5	528.0	542.3	553.0	560.1	560.1	563.7	560.1	556.6	556.6
92.5°	424.6	460.2	488.8	503.1	513.8	524.5	524.5	528.0	520.9	520.9	520.9
95°	388.9	424.6	449.5	467.4	478.1	485.2	488.8	488.8	485.2	485.2	485.2
97.5°	356.8	388.9	413.9	431.7	442.4	446.0	449.5	453.1	449.5	449.5	449.5
100°	324.7	356.8	381.8	396.0	410.3	413.9	417.4	421.0	421.0	417.4	417.4
102.5°	296.1	328.2	349.6	367.5	378.2	385.3	388.9	388.9	388.9	388.9	388.9
105°	267.6	299.7	321.1	338.9	349.6	356.8	360.3	363.9	363.9	360.3	360.3
107.5°	242.6	271.2	296.1	310.4	324.7	331.8	335.4	335.4	338.9	335.4	335.4
110°	217.6	249.7	271.2	285.4	299.7	306.8	310.4	314.0	314.0	314.0	314.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	199.8	224.8	246.2	260.4	274.7	281.9	285.4	289.0	292.6	289.0	289.0
115°	178.4	203.4	224.8	239.0	249.7	256.9	264.0	267.6	267.6	271.2	267.6
117.5°	160.6	182.0	203.4	217.6	228.3	239.0	242.6	246.2	249.7	246.2	246.2
120°	142.7	164.1	182.0	196.2	206.9	217.6	221.2	224.8	228.3	224.8	224.8
122.5°	128.4	146.3	164.1	178.4	189.1	196.2	203.4	203.4	206.9	206.9	206.9
125°	114.2	132.0	146.3	160.6	171.3	178.4	182.0	185.5	185.5	189.1	189.1
127.5°	99.9	114.2	132.0	142.7	153.4	160.6	164.1	167.7	167.7	171.3	171.3
130°	85.6	99.9	114.2	124.9	135.6	142.7	146.3	149.8	153.4	153.4	153.4
132.5°	74.9	89.2	99.9	110.6	117.7	124.9	132.0	135.6	135.6	135.6	135.6
135°	60.7	74.9	85.6	96.3	103.5	110.6	114.2	121.3	121.3	121.3	121.3
137.5°	49.9	64.2	74.9	82.1	89.2	96.3	99.9	103.5	107.0	107.0	107.0
140°	39.2	49.9	60.7	71.4	78.5	82.1	89.2	89.2	92.8	92.8	92.8
142.5°	28.5	39.2	46.4	57.1	64.2	71.4	74.9	78.5	78.5	78.5	78.5
145°	21.4	28.5	35.7	42.8	53.5	57.1	60.7	64.2	67.8	67.8	67.8
147.5°	14.3	21.4	25.0	32.1	39.2	46.4	49.9	53.5	57.1	57.1	57.1
150°	10.7	14.3	21.4	25.0	28.5	35.7	42.8	42.8	46.4	46.4	42.8
152.5°	7.1	10.7	14.3	17.8	21.4	25.0	32.1	32.1	35.7	35.7	35.7
155°	7.1	7.1	7.1	10.7	14.3	17.8	21.4	25.0	25.0	25.0	25.0
157.5°	7.1	7.1	7.1	7.1	7.1	10.7	14.3	17.8	17.8	17.8	17.8
160°	7.1	7.1	3.6	3.6	7.1	7.1	7.1	7.1	10.7	10.7	10.7
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-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	6486.3	6486.3	6486.3	6486.3	6486.3	6486.3	6486.3	6486.3	6486.3	6486.3	6486.3
2.5°	6479.1	6486.3	6486.3	6479.1	6475.5	6489.8	6472.0	6404.2	6425.6	6432.7	6454.1
5°	6447.0	6454.1	6454.1	6454.1	6447.0	6461.3	6443.4	6375.7	6400.6	6411.3	6425.6
7.5°	6400.6	6404.2	6411.3	6407.8	6400.6	6422.0	6404.2	6336.4	6354.2	6372.1	6389.9
10°	6340.0	6340.0	6343.5	6350.7	6343.5	6361.4	6343.5	6282.9	6300.7	6311.4	6332.8
12.5°	6257.9	6265.0	6268.6	6265.0	6261.5	6275.8	6268.6	6211.5	6218.7	6240.1	6261.5
15°	6147.3	6147.3	6165.2	6158.0	6158.0	6172.3	6179.4	6115.2	6125.9	6158.0	6179.4
17.5°	6011.7	6015.3	6029.6	6036.7	6033.1	6058.1	6061.7	6011.7	6008.2	6047.4	6068.8
20°	5836.9	5844.0	5861.9	5876.2	5876.2	5904.7	5915.4	5883.3	5886.9	5929.7	5936.8
22.5°	5622.8	5622.8	5655.0	5676.4	5694.2	5712.0	5744.2	5715.6	5715.6	5772.7	5804.8
25°	5358.8	5383.8	5394.5	5437.3	5462.3	5512.2	5540.8	5544.4	5547.9	5601.4	5622.8
27.5°	5066.3	5073.4	5105.5	5155.5	5184.0	5230.4	5283.9	5294.6	5312.4	5383.8	5415.9
30°	4734.5	4755.9	4770.1	4841.5	4880.7	4941.4	5009.2	5034.2	5048.4	5144.8	5184.0
32.5°	4395.5	4402.7	4463.3	4502.6	4548.9	4613.2	4691.7	4738.0	4766.6	4866.5	4923.6
35°	4056.6	4070.9	4120.8	4170.8	4217.1	4281.4	4363.4	4427.6	4477.6	4566.8	4641.7
37.5°	3746.2	3781.9	3792.6	3842.5	3878.2	3942.4	3999.5	4092.3	4142.2	4235.0	4331.3
40°	3467.9	3478.6	3485.7	3535.7	3560.7	3621.3	3703.4	3764.0	3831.8	3899.6	4013.8
42.5°	3193.2	3200.3	3211.0	3239.6	3268.1	3310.9	3371.6	3432.2	3503.6	3603.5	3678.4
45°	2939.9	2947.0	2954.1	2972.0	2996.9	3036.2	3075.4	3118.3	3189.6	3275.2	3353.7
47.5°	2704.4	2718.7	2718.7	2722.2	2740.1	2772.2	2800.7	2854.2	2893.5	2939.9	3029.1
50°	2479.6	2490.3	2493.9	2493.9	2504.6	2526.0	2533.1	2568.8	2604.5	2647.3	2711.5
52.5°	2269.1	2269.1	2265.6	2279.8	2279.8	2294.1	2297.7	2319.1	2344.0	2390.4	2419.0
55°	2069.3	2069.3	2080.0	2072.9	2072.9	2080.0	2076.5	2080.0	2101.4	2130.0	2154.9
57.5°	1876.7	1873.1	1883.8	1876.7	1873.1	1880.2	1887.4	1873.1	1876.7	1905.2	1905.2
60°	1684.0	1687.6	1698.3	1691.1	1691.1	1691.1	1684.0	1676.9	1669.7	1687.6	1694.7
62.5°	1530.6	1519.9	1530.6	1519.9	1527.0	1523.4	1516.3	1502.0	1505.6	1498.5	1491.3
65°	1370.0	1370.0	1373.6	1362.9	1370.0	1370.0	1359.3	1355.8	1334.4	1327.2	1309.4
67.5°	1230.9	1230.9	1234.5	1227.3	1227.3	1230.9	1220.2	1209.5	1188.1	1177.4	1152.4
70°	1109.6	1109.6	1109.6	1106.0	1106.0	1106.0	1098.9	1084.6	1063.2	1045.4	1013.3
72.5°	999.0	1002.6	999.0	999.0	1009.7	999.0	988.3	974.0	956.2	920.5	891.9
75°	909.8	913.4	909.8	909.8	909.8	906.2	902.7	881.2	859.8	831.3	788.5
77.5°	831.3	831.3	834.9	831.3	831.3	827.7	817.0	799.2	774.2	749.2	699.3
80°	756.4	759.9	763.5	767.1	759.9	756.4	745.7	731.4	699.3	670.7	620.8
82.5°	702.9	699.3	702.9	706.4	699.3	695.7	685.0	667.2	642.2	603.0	553.0
85°	649.3	645.8	645.8	649.3	645.8	638.6	627.9	610.1	585.1	545.9	495.9
87.5°	595.8	599.4	603.0	599.4	595.8	588.7	578.0	560.1	531.6	499.5	446.0
90°	556.6	556.6	556.6	556.6	553.0	545.9	535.2	513.8	488.8	449.5	403.2
92.5°	520.9	520.9	520.9	520.9	517.3	506.6	495.9	478.1	449.5	410.3	367.5
95°	485.2	488.8	485.2	485.2	478.1	474.5	456.7	438.8	413.9	374.6	328.2
97.5°	446.0	449.5	446.0	446.0	442.4	435.3	424.6	403.2	378.2	342.5	299.7
100°	417.4	417.4	413.9	413.9	410.3	403.2	388.9	371.1	346.1	310.4	267.6
102.5°	385.3	388.9	385.3	385.3	378.2	371.1	360.3	342.5	317.5	281.9	242.6
105°	360.3	360.3	356.8	356.8	349.6	342.5	331.8	310.4	289.0	256.9	217.6
107.5°	335.4	335.4	331.8	331.8	324.7	317.5	303.3	285.4	264.0	231.9	196.2
110°	310.4	310.4	310.4	306.8	299.7	289.0	278.3	260.4	239.0	210.5	174.8



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	292.6	289.0	285.4	281.9	274.7	267.6	253.3	235.5	214.1	189.1	157.0
115°	267.6	267.6	264.0	260.4	253.3	242.6	231.9	217.6	196.2	167.7	139.1
117.5°	246.2	246.2	242.6	239.0	231.9	221.2	210.5	196.2	174.8	149.8	124.9
120°	224.8	224.8	221.2	217.6	210.5	199.8	192.7	174.8	157.0	132.0	110.6
122.5°	206.9	203.4	203.4	196.2	192.7	182.0	171.3	157.0	139.1	117.7	96.3
125°	185.5	185.5	182.0	178.4	174.8	164.1	153.4	139.1	121.3	103.5	85.6
127.5°	167.7	167.7	164.1	160.6	157.0	146.3	135.6	124.9	107.0	89.2	71.4
130°	149.8	149.8	146.3	142.7	139.1	128.4	121.3	107.0	92.8	78.5	60.7
132.5°	135.6	135.6	132.0	128.4	121.3	114.2	107.0	92.8	82.1	67.8	53.5
135°	121.3	117.7	117.7	114.2	107.0	99.9	92.8	82.1	67.8	57.1	42.8
137.5°	107.0	103.5	99.9	96.3	92.8	85.6	78.5	71.4	60.7	46.4	35.7
140°	92.8	89.2	89.2	85.6	78.5	74.9	67.8	57.1	49.9	39.2	28.5
142.5°	78.5	78.5	74.9	71.4	67.8	64.2	57.1	49.9	39.2	32.1	21.4
145°	67.8	64.2	64.2	60.7	57.1	49.9	46.4	39.2	32.1	25.0	17.8
147.5°	53.5	53.5	53.5	49.9	46.4	42.8	39.2	32.1	25.0	17.8	10.7
150°	42.8	42.8	42.8	39.2	35.7	32.1	28.5	25.0	17.8	10.7	7.1
152.5°	35.7	35.7	32.1	32.1	28.5	25.0	21.4	17.8	10.7	7.1	7.1
155°	25.0	25.0	25.0	21.4	21.4	17.8	14.3	10.7	7.1	7.1	7.1
157.5°	17.8	17.8	17.8	14.3	14.3	10.7	10.7	7.1	7.1	7.1	7.1
160°	10.7	10.7	10.7	10.7	7.1	7.1	7.1	7.1	7.1	7.1	7.1
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-LD5-200HL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	6486.3	6486.3	6486.3	6486.3	6486.3	6486.3	6486.3
2.5°	6443.4	6439.9	6468.4	6468.4	6436.3	6486.3	6539.8
5°	6422.0	6418.5	6447.0	6447.0	6418.5	6468.4	6525.5
7.5°	6379.2	6382.8	6411.3	6418.5	6382.8	6429.2	6489.8
10°	6332.8	6329.3	6361.4	6368.5	6340.0	6382.8	6439.9
12.5°	6257.9	6257.9	6290.0	6300.7	6272.2	6322.1	6375.7
15°	6179.4	6179.4	6200.8	6218.7	6193.7	6240.1	6293.6
17.5°	6079.5	6076.0	6097.4	6118.8	6093.8	6143.7	6200.8
20°	5951.1	5951.1	5976.1	6001.0	5983.2	6029.6	6093.8
22.5°	5815.5	5801.2	5844.0	5861.9	5851.2	5897.6	5961.8
25°	5644.3	5640.7	5683.5	5708.5	5694.2	5744.2	5801.2
27.5°	5458.7	5455.2	5498.0	5530.1	5522.9	5569.3	5633.5
30°	5234.0	5251.8	5291.0	5344.6	5326.7	5376.7	5444.5
32.5°	4998.5	5016.3	5062.7	5119.8	5123.4	5162.6	5230.4
35°	4716.6	4763.0	4795.1	4870.0	4884.3	4923.6	4994.9
37.5°	4420.5	4474.0	4541.8	4598.9	4627.4	4659.5	4741.6
40°	4088.7	4167.2	4242.1	4309.9	4345.6	4377.7	4456.2
42.5°	3789.0	3849.7	3921.0	3988.8	4053.0	4081.6	4163.6
45°	3450.1	3521.4	3585.6	3667.7	3731.9	3764.0	3846.1
47.5°	3118.3	3189.6	3275.2	3332.3	3400.1	3432.2	3510.7
50°	2800.7	2864.9	2936.3	3004.1	3061.2	3089.7	3157.5
52.5°	2486.8	2554.5	2622.3	2665.1	2725.8	2747.2	2804.3
55°	2208.5	2254.8	2315.5	2340.5	2401.1	2415.4	2454.6
57.5°	1940.9	1973.0	1994.4	2037.2	2080.0	2112.1	2158.5
60°	1698.3	1712.5	1726.8	1751.8	1787.5	1798.2	1816.0
62.5°	1480.6	1477.1	1505.6	1512.7	1516.3	1552.0	1534.2
65°	1288.0	1291.5	1266.6	1255.9	1270.1	1280.8	1273.7
67.5°	1127.4	1106.0	1084.6	1059.6	1038.2	1048.9	1038.2
70°	970.4	952.6	916.9	881.2	867.0	845.6	834.9
72.5°	845.6	802.8	767.1	720.7	695.7	670.7	652.9
75°	749.2	688.6	638.6	588.7	553.0	517.3	510.2
77.5°	649.3	592.3	535.2	481.7	428.1	388.9	374.6
80°	570.8	517.3	449.5	385.3	328.2	278.3	260.4
82.5°	499.5	442.4	374.6	306.8	242.6	189.1	167.7
85°	438.8	378.2	310.4	242.6	178.4	121.3	92.8
87.5°	392.5	324.7	256.9	192.7	124.9	67.8	35.7
90°	349.6	285.4	221.2	153.4	89.2	35.7	0.0
92.5°	310.4	249.7	185.5	124.9	67.8	21.4	3.6
95°	274.7	221.2	157.0	99.9	49.9	14.3	3.6
97.5°	246.2	192.7	135.6	82.1	39.2	10.7	3.6
100°	221.2	167.7	117.7	67.8	32.1	7.1	3.6
102.5°	196.2	149.8	99.9	57.1	25.0	3.6	3.6
105°	174.8	132.0	85.6	49.9	21.4	3.6	3.6
107.5°	157.0	117.7	74.9	42.8	14.3	3.6	3.6
110°	139.1	99.9	64.2	35.7	10.7	3.6	3.6



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	124.9	89.2	57.1	28.5	7.1	3.6	3.6
115°	110.6	78.5	49.9	25.0	7.1	3.6	3.6
117.5°	96.3	67.8	42.8	17.8	3.6	3.6	3.6
120°	85.6	60.7	35.7	14.3	3.6	3.6	3.6
122.5°	74.9	49.9	28.5	10.7	3.6	3.6	3.6
125°	64.2	42.8	25.0	7.1	3.6	3.6	3.6
127.5°	53.5	35.7	17.8	7.1	3.6	3.6	3.6
130°	46.4	28.5	14.3	3.6	3.6	3.6	3.6
132.5°	39.2	21.4	10.7	3.6	3.6	3.6	3.6
135°	32.1	17.8	7.1	3.6	3.6	3.6	3.6
137.5°	25.0	14.3	7.1	3.6	3.6	3.6	3.6
140°	17.8	10.7	3.6	3.6	3.6	3.6	3.6
142.5°	14.3	7.1	3.6	3.6	3.6	3.6	3.6
145°	10.7	7.1	3.6	3.6	3.6	3.6	3.6
147.5°	7.1	7.1	7.1	7.1	3.6	3.6	3.6
150°	7.1	7.1	3.6	3.6	7.1	3.6	3.6
152.5°	7.1	3.6	3.6	3.6	7.1	3.6	3.6
155°	7.1	7.1	7.1	7.1	7.1	7.1	3.6
157.5°	7.1	7.1	7.1	7.1	7.1	7.1	7.1
160°	7.1	7.1	7.1	7.1	7.1	7.1	7.1
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)