

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-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-LD5-170HL-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: 13836.0 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

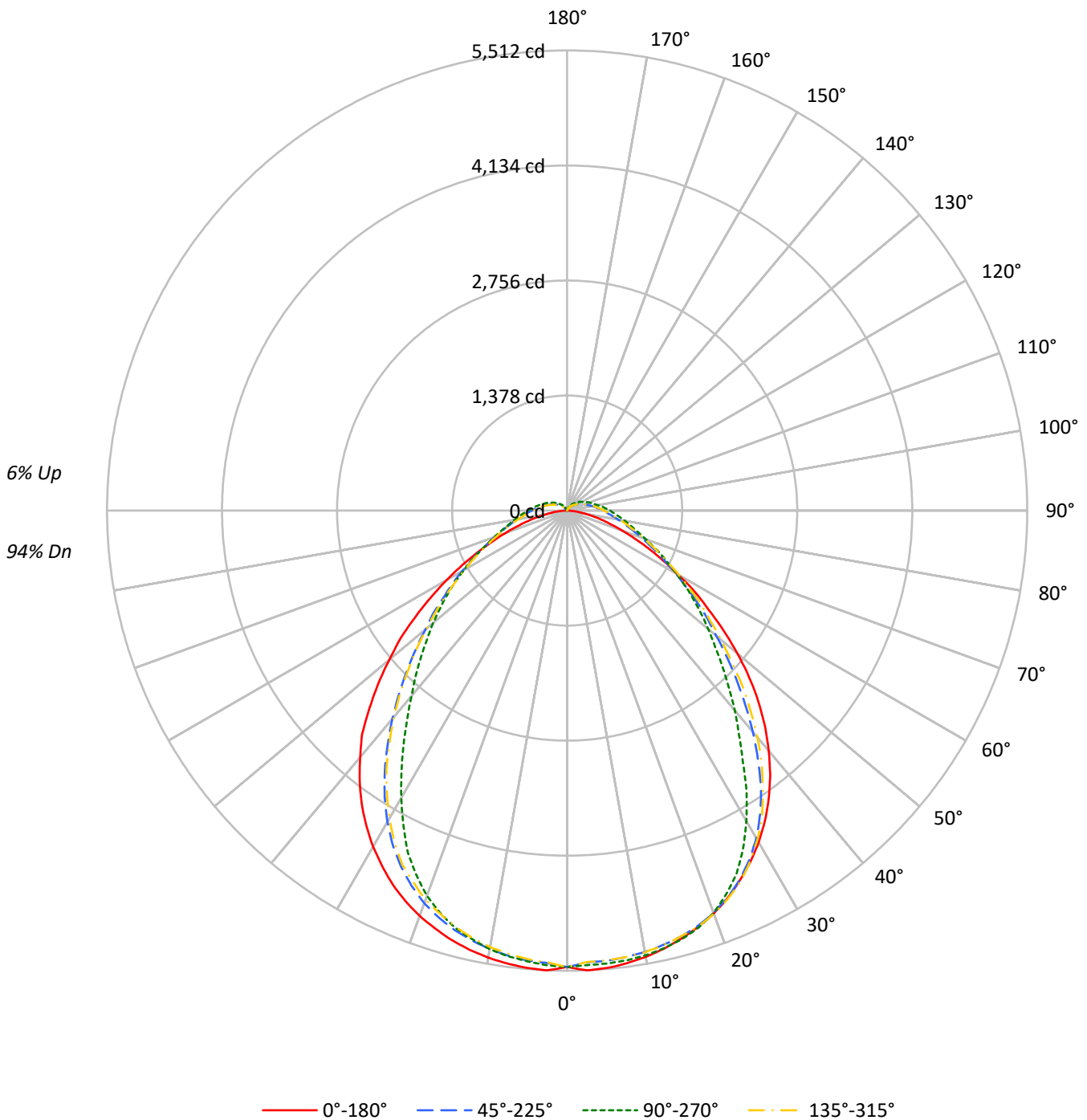
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LN-UNV-L950-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LN-UNV-L950-CD1-U

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°	22090	22090	22090	22090
5°	22278	21387	22278	21292
10°	22209	20818	22246	20529
15°	22098	20196	22198	19671
20°	21961	19397	22089	18577
25°	21642	18210	21882	17138
30°	21219	16467	21497	15245
35°	20542	14330	20938	13343
40°	19555	12533	20072	11628
45°	18239	10895	18832	10270
50°	16424	9573	17147	9090
55°	14257	8454	15293	8026
60°	12044	7423	13132	6995
65°	9932	6563	10932	6085
70°	7971	5824	8925	5387
75°	6343	5377	7143	4947
80°	4692	5189	5527	4741
85°	3076	5217	4142	4796



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LN-UNV-L950-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	518.3	3.7
10°-20°	1486.2	10.7
20°-30°	2202.7	15.9
30°-40°	2447.1	17.7
40°-50°	2218.3	16.0
50°-60°	1718.9	12.4
60°-70°	1167.3	8.4
70°-80°	742.6	5.4
80°-90°	474.8	3.4
90°-100°	320.1	2.3
100°-110°	219.3	1.6
110°-120°	146.3	1.1
120°-130°	91.0	0.7
130°-140°	50.3	0.4
140°-150°	23.6	0.2
150°-160°	8.7	0.1
160°-170°	0.5	0.0
170°-180°	0.0	0.0
0°-30°	4207.3	30.4
0°-40°	6654.4	48.1
0°-60°	10591.6	76.6
0°-90°	12976.3	93.8
90°-120°	685.6	5.0
90°-150°	850.5	6.1
90°-180°	860.0	6.2
0°-180°	13836.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5467	5467	5467	5467	5467	
5°	5500	5446	5500	5422	5500	522
15°	5305	5314	5329	5176	5305	1497
25°	4890	4800	4944	4517	4890	2252
35°	4210	3669	4291	3416	4210	2626
45°	3242	2622	3347	2472	3242	2490
55°	2069	1843	2219	1750	2069	1863
65°	1074	1239	1182	1149	1074	1076
75°	430	827	484	761	430	463
85°	78	595	105	547	78	94
90°	0	514	6	469	0	5
95°	3	439	0	409	3	2
105°	3	322	0	304	3	3
115°	3	244	0	226	3	3
125°	3	180	3	159	3	3
135°	3	126	3	102	3	2
145°	3	81	3	57	3	2
155°	3	45	3	21	3	2
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	5467.2	5467.2	5467.2	5467.2	5467.2	5467.2	5467.2	5467.2	5467.2	5467.2	5467.2
2.5°	5512.3	5506.3	5500.3	5491.2	5500.3	5524.3	5509.3	5476.2	5470.2	5416.1	5440.1
5°	5500.3	5491.2	5485.2	5476.2	5488.2	5518.3	5503.3	5473.2	5464.2	5413.1	5440.1
7.5°	5470.2	5464.2	5455.2	5455.2	5467.2	5497.3	5485.2	5452.1	5446.1	5395.0	5425.1
10°	5428.1	5425.1	5419.1	5419.1	5431.1	5467.2	5452.1	5422.1	5416.1	5367.9	5401.0
12.5°	5374.0	5377.0	5367.9	5367.9	5386.0	5422.1	5410.0	5377.0	5371.0	5328.8	5361.9
15°	5304.8	5307.8	5301.8	5304.8	5322.8	5364.9	5349.9	5319.8	5313.8	5280.7	5307.8
17.5°	5226.6	5229.6	5229.6	5226.6	5247.7	5289.8	5277.7	5250.7	5241.6	5214.6	5247.7
20°	5136.4	5136.4	5136.4	5136.4	5160.4	5202.5	5187.5	5166.5	5148.4	5127.4	5154.4
22.5°	5025.1	5022.1	5025.1	5034.1	5058.2	5091.3	5082.3	5058.2	5031.1	5019.1	5040.2
25°	4889.8	4898.8	4901.8	4910.8	4940.9	4968.0	4959.0	4934.9	4892.8	4883.8	4889.8
27.5°	4748.4	4754.5	4763.5	4760.5	4802.6	4829.6	4811.6	4790.6	4730.4	4721.4	4715.4
30°	4589.1	4598.1	4604.1	4601.1	4634.2	4664.2	4646.2	4619.1	4537.9	4531.9	4483.8
32.5°	4408.6	4417.7	4423.7	4423.7	4471.8	4483.8	4450.7	4411.6	4324.4	4303.4	4261.3
35°	4210.2	4219.2	4222.2	4222.2	4270.3	4267.3	4225.2	4171.1	4074.8	4047.8	3975.6
37.5°	3996.6	4002.7	4005.7	4023.7	4044.8	4026.7	3972.6	3903.4	3831.2	3756.1	3677.9
40°	3756.1	3765.1	3771.1	3783.1	3804.2	3783.1	3704.9	3620.7	3542.5	3458.3	3380.2
42.5°	3509.5	3536.5	3530.5	3527.5	3539.5	3482.4	3422.3	3326.0	3247.8	3160.6	3082.4
45°	3241.8	3238.8	3253.8	3259.9	3256.9	3208.7	3124.5	3037.3	2959.1	2868.9	2802.8
47.5°	2959.1	2956.1	2968.2	2974.2	2956.1	2905.0	2838.8	2739.6	2673.4	2595.3	2544.1
50°	2661.4	2661.4	2679.5	2661.4	2652.4	2601.3	2547.1	2447.9	2396.8	2327.6	2297.5
52.5°	2363.7	2390.8	2372.7	2366.7	2357.7	2306.6	2264.5	2183.3	2141.2	2111.1	2075.0
55°	2069.0	2099.1	2087.0	2078.0	2075.0	2032.9	1993.8	1933.7	1906.6	1885.5	1864.5
57.5°	1819.4	1816.4	1810.4	1801.3	1804.4	1771.3	1732.2	1699.1	1687.1	1678.0	1684.1
60°	1530.7	1554.7	1545.7	1548.7	1551.7	1545.7	1512.6	1491.6	1494.6	1497.6	1506.6
62.5°	1293.1	1314.2	1329.2	1317.2	1323.2	1332.2	1314.2	1308.2	1320.2	1332.2	1344.2
65°	1073.6	1094.6	1109.7	1106.7	1124.7	1142.8	1139.7	1145.8	1172.8	1187.9	1202.9
67.5°	875.1	896.2	917.2	920.2	947.3	974.3	986.4	1007.4	1037.5	1058.6	1076.6
70°	703.7	721.7	745.8	760.8	796.9	833.0	854.1	896.2	914.2	944.3	956.3
72.5°	550.3	565.4	598.4	634.5	664.6	709.7	751.8	787.9	815.0	848.0	863.1
75°	430.0	436.1	472.1	514.2	556.3	607.5	652.6	691.7	727.8	760.8	784.9
77.5°	315.8	324.8	357.9	415.0	463.1	517.2	568.4	610.5	649.6	682.6	715.7
80°	219.5	237.6	273.7	330.8	384.9	445.1	493.2	541.3	583.4	616.5	649.6
82.5°	141.3	156.4	207.5	264.6	321.8	381.9	433.0	481.2	526.3	562.4	592.4
85°	78.2	99.2	150.4	210.5	267.6	327.8	381.9	430.0	475.1	508.2	538.3
87.5°	30.1	60.1	108.3	165.4	222.5	279.7	336.8	381.9	427.0	463.1	490.2
90°	0.0	36.1	81.2	138.3	195.5	252.6	306.7	354.9	397.0	430.0	460.1
92.5°	3.0	24.1	63.2	111.3	165.4	219.5	270.7	318.8	360.9	393.9	421.0
95°	3.0	18.0	51.1	96.2	144.3	195.5	243.6	288.7	327.8	360.9	387.9
97.5°	3.0	12.0	42.1	84.2	126.3	177.4	222.5	264.6	300.7	333.8	354.9
100°	3.0	12.0	36.1	72.2	114.3	159.4	201.5	243.6	276.7	303.7	327.8
102.5°	3.0	9.0	30.1	63.2	102.2	141.3	183.4	222.5	252.6	279.7	303.7
105°	3.0	9.0	27.1	54.1	90.2	129.3	165.4	201.5	234.6	258.6	279.7
107.5°	3.0	6.0	24.1	45.1	78.2	117.3	153.4	183.4	213.5	237.6	258.6
110°	3.0	6.0	21.1	42.1	69.2	105.3	138.3	168.4	195.5	219.5	237.6



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	3.0	6.0	18.0	39.1	63.2	93.2	126.3	153.4	180.4	201.5	219.5
115°	3.0	6.0	18.0	36.1	57.1	81.2	111.3	141.3	162.4	186.4	201.5
117.5°	3.0	6.0	15.0	30.1	54.1	75.2	102.2	126.3	150.4	171.4	186.4
120°	3.0	6.0	15.0	27.1	48.1	69.2	90.2	114.3	138.3	153.4	168.4
122.5°	3.0	6.0	12.0	27.1	42.1	63.2	81.2	102.2	123.3	141.3	156.4
125°	3.0	6.0	12.0	24.1	39.1	57.1	75.2	90.2	111.3	126.3	141.3
127.5°	3.0	6.0	12.0	21.1	36.1	51.1	69.2	84.2	99.2	114.3	126.3
130°	3.0	6.0	9.0	18.0	33.1	45.1	60.1	78.2	90.2	102.2	114.3
132.5°	3.0	6.0	9.0	18.0	27.1	39.1	54.1	69.2	81.2	93.2	102.2
135°	3.0	6.0	9.0	15.0	24.1	36.1	45.1	60.1	72.2	84.2	93.2
137.5°	3.0	6.0	9.0	15.0	21.1	30.1	39.1	51.1	63.2	72.2	84.2
140°	3.0	6.0	9.0	12.0	18.0	27.1	36.1	42.1	54.1	63.2	72.2
142.5°	3.0	6.0	9.0	12.0	18.0	24.1	30.1	36.1	45.1	54.1	63.2
145°	3.0	6.0	9.0	12.0	15.0	21.1	27.1	33.1	36.1	45.1	51.1
147.5°	3.0	6.0	9.0	12.0	12.0	18.0	24.1	27.1	33.1	36.1	42.1
150°	3.0	6.0	9.0	9.0	12.0	15.0	21.1	24.1	27.1	33.1	36.1
152.5°	3.0	6.0	9.0	9.0	12.0	15.0	18.0	21.1	24.1	27.1	30.1
155°	3.0	6.0	9.0	9.0	9.0	12.0	15.0	18.0	21.1	24.1	27.1
157.5°	6.0	6.0	6.0	9.0	9.0	12.0	12.0	15.0	18.0	18.0	21.1
160°	6.0	6.0	6.0	9.0	9.0	9.0	12.0	12.0	15.0	15.0	18.0
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-LD5-170HL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	5467.2	5467.2	5467.2	5467.2	5467.2	5467.2	5467.2	5467.2	5467.2	5467.2	5467.2
2.5°	5434.1	5443.1	5470.2	5470.2	5464.2	5458.2	5458.2	5449.1	5455.2	5467.2	5461.2
5°	5434.1	5443.1	5470.2	5470.2	5464.2	5458.2	5455.2	5446.1	5455.2	5467.2	5461.2
7.5°	5416.1	5428.1	5455.2	5455.2	5449.1	5446.1	5440.1	5434.1	5443.1	5455.2	5449.1
10°	5392.0	5404.0	5431.1	5431.1	5425.1	5425.1	5416.1	5410.0	5422.1	5431.1	5428.1
12.5°	5355.9	5371.0	5395.0	5392.0	5386.0	5389.0	5380.0	5367.9	5380.0	5389.0	5392.0
15°	5304.8	5322.8	5346.9	5340.9	5331.9	5337.9	5322.8	5313.8	5322.8	5340.9	5337.9
17.5°	5238.6	5250.7	5268.7	5268.7	5259.7	5253.7	5247.7	5238.6	5244.6	5256.7	5259.7
20°	5145.4	5160.4	5169.5	5160.4	5157.4	5148.4	5136.4	5127.4	5139.4	5157.4	5160.4
22.5°	5022.1	5025.1	5046.2	5025.1	5010.1	5007.1	4995.0	4977.0	4995.0	5010.1	5013.1
25°	4868.7	4883.8	4874.8	4838.7	4838.7	4814.6	4808.6	4799.6	4802.6	4829.6	4841.7
27.5°	4673.3	4679.3	4655.2	4625.2	4598.1	4583.1	4562.0	4565.0	4565.0	4601.1	4613.1
30°	4459.8	4426.7	4405.6	4357.5	4336.5	4300.4	4294.4	4294.4	4288.3	4306.4	4360.5
32.5°	4204.1	4159.0	4125.9	4080.8	4044.8	4008.7	3990.6	3999.6	3996.6	4041.7	4059.8
35°	3924.5	3897.4	3828.2	3771.1	3750.0	3695.9	3695.9	3668.8	3686.9	3738.0	3759.1
37.5°	3629.8	3587.7	3530.5	3467.4	3452.3	3410.2	3395.2	3380.2	3419.2	3428.3	3449.3
40°	3329.0	3289.9	3235.8	3175.7	3175.7	3124.5	3124.5	3124.5	3127.5	3145.6	3184.7
42.5°	3043.3	3001.2	2953.1	2911.0	2905.0	2865.9	2865.9	2862.9	2868.9	2884.0	2920.0
45°	2766.7	2733.6	2682.5	2661.4	2664.4	2622.3	2631.3	2622.3	2634.4	2649.4	2661.4
47.5°	2511.1	2490.0	2469.0	2438.9	2429.9	2426.9	2411.8	2399.8	2420.8	2420.8	2438.9
50°	2273.5	2261.5	2249.4	2231.4	2234.4	2222.4	2204.3	2204.3	2219.4	2222.4	2234.4
52.5°	2066.0	2050.9	2035.9	2038.9	2041.9	2035.9	2026.9	2017.9	2026.9	2032.9	2047.9
55°	1858.5	1846.5	1861.5	1855.5	1861.5	1855.5	1849.5	1843.4	1858.5	1849.5	1864.5
57.5°	1672.0	1684.1	1690.1	1678.0	1687.1	1681.1	1684.1	1675.0	1687.1	1693.1	1690.1
60°	1500.6	1518.7	1509.6	1512.6	1524.7	1518.7	1506.6	1515.7	1527.7	1530.7	1527.7
62.5°	1344.2	1365.3	1374.3	1368.3	1371.3	1365.3	1374.3	1362.3	1377.3	1383.3	1374.3
65°	1202.9	1227.0	1233.0	1233.0	1233.0	1227.0	1236.0	1239.0	1245.0	1245.0	1239.0
67.5°	1082.6	1103.7	1109.7	1115.7	1109.7	1103.7	1103.7	1106.7	1118.7	1124.7	1118.7
70°	974.3	995.4	998.4	998.4	1001.4	1007.4	995.4	1001.4	1010.4	1013.4	1010.4
72.5°	881.1	902.2	908.2	905.2	908.2	911.2	911.2	905.2	914.2	920.2	920.2
75°	805.9	818.0	824.0	824.0	827.0	830.0	830.0	827.0	833.0	836.0	839.0
77.5°	736.8	745.8	754.8	754.8	757.8	754.8	760.8	760.8	763.8	766.8	769.9
80°	667.6	679.6	685.7	688.7	694.7	697.7	697.7	697.7	700.7	703.7	703.7
82.5°	613.5	622.5	631.5	640.5	640.5	643.6	643.6	643.6	646.6	646.6	649.6
85°	559.3	571.4	580.4	586.4	589.4	592.4	592.4	595.4	595.4	595.4	598.4
87.5°	511.2	526.3	532.3	538.3	541.3	547.3	547.3	547.3	550.3	550.3	550.3
90°	478.2	493.2	499.2	505.2	508.2	511.2	511.2	514.2	514.2	517.2	517.2
92.5°	439.1	454.1	466.1	466.1	469.1	475.1	472.1	472.1	475.1	478.2	478.2
95°	409.0	421.0	430.0	433.0	436.1	436.1	436.1	439.1	436.1	439.1	439.1
97.5°	372.9	384.9	393.9	400.0	403.0	403.0	403.0	406.0	403.0	406.0	406.0
100°	342.8	354.9	363.9	366.9	372.9	372.9	372.9	372.9	372.9	372.9	375.9
102.5°	318.8	330.8	336.8	339.8	342.8	345.8	345.8	345.8	345.8	348.8	348.8
105°	294.7	306.7	312.8	315.8	318.8	321.8	321.8	321.8	324.8	324.8	321.8
107.5°	273.7	282.7	288.7	294.7	297.7	297.7	300.7	300.7	300.7	300.7	300.7
110°	252.6	261.6	270.7	276.7	276.7	279.7	279.7	282.7	282.7	279.7	282.7



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	231.6	243.6	249.6	255.6	258.6	261.6	261.6	261.6	261.6	261.6	261.6
115°	213.5	225.5	231.6	237.6	240.6	243.6	243.6	243.6	243.6	243.6	243.6
117.5°	198.5	210.5	216.5	219.5	222.5	225.5	228.6	228.6	228.6	228.6	225.5
120°	183.4	192.5	198.5	204.5	207.5	210.5	210.5	210.5	210.5	210.5	210.5
122.5°	168.4	177.4	183.4	189.5	192.5	195.5	195.5	195.5	195.5	195.5	195.5
125°	153.4	162.4	168.4	174.4	177.4	180.4	180.4	180.4	180.4	180.4	180.4
127.5°	138.3	147.4	156.4	159.4	162.4	165.4	165.4	165.4	168.4	165.4	165.4
130°	123.3	132.3	141.3	144.3	147.4	150.4	153.4	153.4	153.4	153.4	150.4
132.5°	111.3	120.3	126.3	129.3	135.3	135.3	138.3	138.3	138.3	138.3	135.3
135°	102.2	108.3	114.3	117.3	123.3	123.3	123.3	126.3	126.3	123.3	120.3
137.5°	90.2	96.2	102.2	105.3	108.3	111.3	111.3	114.3	111.3	111.3	111.3
140°	84.2	87.2	93.2	96.2	99.2	99.2	99.2	102.2	102.2	99.2	99.2
142.5°	72.2	78.2	84.2	87.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
145°	60.1	69.2	72.2	78.2	78.2	81.2	81.2	81.2	81.2	81.2	78.2
147.5°	51.1	57.1	66.2	69.2	69.2	72.2	72.2	72.2	72.2	72.2	69.2
150°	39.1	45.1	54.1	60.1	60.1	63.2	63.2	63.2	63.2	60.1	60.1
152.5°	33.1	39.1	42.1	48.1	51.1	51.1	51.1	54.1	51.1	51.1	51.1
155°	30.1	33.1	36.1	39.1	42.1	45.1	45.1	45.1	45.1	42.1	42.1
157.5°	24.1	27.1	30.1	33.1	36.1	39.1	39.1	39.1	39.1	39.1	36.1
160°	18.0	21.1	24.1	24.1	27.1	30.1	33.1	30.1	30.1	30.1	30.1
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-LD5-170HL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	5467.2	5467.2	5467.2	5467.2	5467.2	5467.2	5467.2	5467.2	5467.2	5467.2	5467.2
2.5°	5455.2	5452.1	5461.2	5446.1	5401.0	5413.1	5407.0	5434.1	5440.1	5446.1	5473.2
5°	5455.2	5452.1	5458.2	5446.1	5398.0	5407.0	5401.0	5428.1	5434.1	5437.1	5464.2
7.5°	5443.1	5440.1	5449.1	5434.1	5383.0	5395.0	5386.0	5413.1	5416.1	5419.1	5443.1
10°	5419.1	5416.1	5422.1	5410.0	5358.9	5371.0	5358.9	5386.0	5386.0	5392.0	5410.0
12.5°	5383.0	5377.0	5389.0	5374.0	5316.8	5331.9	5325.8	5343.9	5346.9	5349.9	5367.9
15°	5331.9	5325.8	5334.9	5325.8	5274.7	5277.7	5268.7	5295.8	5298.8	5292.8	5310.8
17.5°	5256.7	5250.7	5268.7	5262.7	5211.6	5223.6	5220.6	5226.6	5235.6	5220.6	5244.6
20°	5163.4	5169.5	5175.5	5178.5	5139.4	5139.4	5136.4	5148.4	5157.4	5145.4	5163.4
22.5°	5025.1	5040.2	5058.2	5064.2	5037.1	5034.1	5052.2	5046.2	5055.2	5049.2	5061.2
25°	4850.7	4880.8	4898.8	4916.9	4901.8	4907.8	4934.9	4940.9	4940.9	4937.9	4949.9
27.5°	4634.2	4673.3	4706.3	4745.4	4730.4	4742.4	4787.5	4793.6	4805.6	4793.6	4817.6
30°	4375.6	4411.6	4474.8	4531.9	4537.9	4556.0	4619.1	4625.2	4658.2	4646.2	4655.2
32.5°	4116.9	4135.0	4207.1	4264.3	4300.4	4345.5	4414.6	4426.7	4471.8	4480.8	4480.8
35°	3792.1	3843.3	3909.4	3990.6	4035.7	4083.8	4177.1	4195.1	4261.3	4282.3	4306.4
37.5°	3518.5	3566.6	3608.7	3692.9	3774.1	3828.2	3903.4	3948.5	4017.7	4056.8	4086.9
40°	3226.8	3265.9	3311.0	3395.2	3464.4	3545.5	3620.7	3674.9	3762.1	3807.2	3846.3
42.5°	2950.1	2980.2	3028.3	3088.4	3160.6	3250.8	3323.0	3386.2	3479.4	3542.5	3587.7
45°	2703.5	2721.6	2763.7	2808.8	2871.9	2965.1	3034.3	3115.5	3190.7	3256.9	3311.0
47.5°	2472.0	2496.0	2517.1	2547.1	2604.3	2661.4	2742.6	2820.8	2896.0	2968.2	3022.3
50°	2258.4	2258.4	2291.5	2312.6	2351.7	2402.8	2465.9	2520.1	2613.3	2664.4	2733.6
52.5°	2050.9	2063.0	2081.0	2093.0	2123.1	2156.2	2207.3	2252.4	2330.6	2378.7	2444.9
55°	1867.5	1879.5	1888.6	1894.6	1912.6	1951.7	1969.7	2005.8	2060.0	2099.1	2156.2
57.5°	1693.1	1699.1	1708.1	1711.1	1714.1	1738.2	1753.2	1762.2	1816.4	1855.5	1903.6
60°	1533.7	1533.7	1542.7	1539.7	1536.7	1548.7	1545.7	1554.7	1587.8	1611.9	1632.9
62.5°	1383.3	1383.3	1386.3	1380.3	1377.3	1377.3	1365.3	1374.3	1383.3	1386.3	1401.4
65°	1245.0	1260.0	1248.0	1251.0	1233.0	1227.0	1220.9	1202.9	1199.9	1187.9	1193.9
67.5°	1121.7	1133.7	1121.7	1121.7	1106.7	1094.6	1079.6	1049.5	1040.5	1016.5	1010.4
70°	1022.5	1013.4	1019.5	1010.4	992.4	977.4	956.3	932.2	902.2	872.1	851.1
72.5°	926.2	926.2	920.2	911.2	902.2	872.1	848.0	821.0	784.9	745.8	715.7
75°	833.0	836.0	836.0	827.0	812.0	784.9	757.8	718.7	679.6	634.5	595.4
77.5°	766.8	766.8	766.8	751.8	736.8	712.7	679.6	637.5	595.4	541.3	496.2
80°	703.7	700.7	700.7	682.6	667.6	640.5	607.5	565.4	520.3	463.1	412.0
82.5°	652.6	649.6	643.6	628.5	607.5	580.4	547.3	502.2	454.1	403.0	339.8
85°	598.4	595.4	589.4	574.4	553.3	529.3	493.2	448.1	400.0	342.8	282.7
87.5°	550.3	547.3	538.3	529.3	505.2	478.2	442.1	400.0	348.8	294.7	234.6
90°	517.2	511.2	505.2	493.2	472.1	442.1	406.0	360.9	309.7	255.6	195.5
92.5°	478.2	475.1	466.1	454.1	436.1	406.0	369.9	327.8	276.7	225.5	168.4
95°	439.1	436.1	430.0	418.0	400.0	372.9	339.8	297.7	249.6	198.5	147.4
97.5°	403.0	403.0	393.9	384.9	363.9	342.8	309.7	270.7	225.5	180.4	132.3
100°	372.9	372.9	363.9	351.8	336.8	315.8	282.7	246.6	204.5	162.4	114.3
102.5°	345.8	342.8	336.8	324.8	309.7	288.7	258.6	225.5	186.4	144.3	102.2
105°	321.8	318.8	312.8	300.7	288.7	264.6	240.6	207.5	168.4	129.3	90.2
107.5°	297.7	294.7	291.7	279.7	264.6	243.6	219.5	186.4	153.4	117.3	81.2
110°	276.7	273.7	267.6	255.6	240.6	222.5	198.5	171.4	138.3	105.3	72.2



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	258.6	255.6	249.6	237.6	225.5	204.5	183.4	153.4	126.3	96.2	63.2
115°	240.6	237.6	231.6	219.5	204.5	186.4	165.4	141.3	111.3	84.2	57.1
117.5°	222.5	219.5	213.5	204.5	189.5	171.4	150.4	126.3	99.2	78.2	51.1
120°	207.5	201.5	195.5	186.4	171.4	156.4	135.3	114.3	90.2	69.2	45.1
122.5°	192.5	186.4	180.4	171.4	156.4	141.3	120.3	102.2	84.2	63.2	42.1
125°	174.4	171.4	165.4	156.4	141.3	126.3	111.3	93.2	75.2	57.1	36.1
127.5°	159.4	156.4	150.4	138.3	126.3	114.3	99.2	84.2	66.2	48.1	33.1
130°	147.4	141.3	135.3	126.3	117.3	105.3	90.2	75.2	60.1	42.1	30.1
132.5°	132.3	126.3	120.3	114.3	105.3	93.2	81.2	66.2	54.1	39.1	27.1
135°	120.3	114.3	108.3	102.2	93.2	84.2	72.2	60.1	48.1	36.1	24.1
137.5°	105.3	102.2	99.2	93.2	84.2	75.2	66.2	51.1	42.1	33.1	21.1
140°	96.2	93.2	90.2	81.2	75.2	66.2	57.1	45.1	36.1	27.1	18.0
142.5°	87.2	84.2	78.2	72.2	66.2	60.1	48.1	42.1	33.1	24.1	18.0
145°	75.2	72.2	69.2	63.2	57.1	48.1	42.1	36.1	30.1	21.1	15.0
147.5°	69.2	66.2	60.1	54.1	48.1	42.1	39.1	33.1	24.1	18.0	12.0
150°	57.1	54.1	51.1	45.1	42.1	39.1	33.1	27.1	21.1	15.0	12.0
152.5°	48.1	45.1	42.1	42.1	36.1	33.1	27.1	24.1	18.0	15.0	9.0
155°	42.1	42.1	39.1	36.1	30.1	27.1	24.1	18.0	15.0	12.0	9.0
157.5°	36.1	33.1	30.1	30.1	27.1	24.1	18.0	15.0	12.0	12.0	9.0
160°	30.1	27.1	27.1	24.1	21.1	18.0	15.0	15.0	12.0	9.0	9.0
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-LD5-170HL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	5467.2	5467.2	5467.2	5467.2	5467.2	5467.2	5467.2	5467.2	5467.2	5467.2	5467.2
2.5°	5476.2	5443.1	5473.2	5512.3	5512.3	5506.3	5500.3	5512.3	5542.4	5530.3	5494.2
5°	5467.2	5434.1	5461.2	5500.3	5500.3	5491.2	5485.2	5494.2	5527.3	5512.3	5479.2
7.5°	5449.1	5419.1	5437.1	5473.2	5473.2	5464.2	5458.2	5470.2	5497.3	5482.2	5446.1
10°	5416.1	5383.0	5404.0	5437.1	5434.1	5428.1	5419.1	5434.1	5458.2	5437.1	5395.0
12.5°	5374.0	5340.9	5358.9	5389.0	5386.0	5374.0	5367.9	5377.0	5398.0	5386.0	5340.9
15°	5316.8	5283.7	5298.8	5328.8	5319.8	5310.8	5298.8	5301.8	5328.8	5307.8	5259.7
17.5°	5247.7	5211.6	5223.6	5250.7	5241.6	5232.6	5217.6	5220.6	5250.7	5220.6	5169.5
20°	5163.4	5124.4	5133.4	5166.5	5151.4	5136.4	5121.3	5121.3	5151.4	5118.3	5061.2
22.5°	5073.2	5034.1	5040.2	5064.2	5052.2	5025.1	5010.1	5019.1	5034.1	4992.0	4931.9
25°	4962.0	4910.8	4919.9	4943.9	4934.9	4898.8	4883.8	4889.8	4883.8	4850.7	4787.5
27.5°	4832.7	4778.5	4784.5	4799.6	4787.5	4754.5	4736.4	4739.4	4727.4	4685.3	4613.1
30°	4670.3	4643.2	4640.2	4649.2	4631.2	4598.1	4577.0	4571.0	4568.0	4507.9	4420.7
32.5°	4504.9	4480.8	4465.8	4477.8	4456.7	4423.7	4387.6	4387.6	4357.5	4300.4	4225.2
35°	4336.5	4297.4	4282.3	4291.3	4267.3	4225.2	4195.1	4180.1	4135.0	4062.8	3981.6
37.5°	4119.9	4092.9	4074.8	4083.8	4056.8	4026.7	3969.6	3954.5	3906.4	3807.2	3704.9
40°	3885.4	3864.3	3846.3	3855.3	3825.2	3780.1	3729.0	3704.9	3650.8	3539.5	3458.3
42.5°	3632.8	3623.7	3602.7	3635.8	3575.6	3530.5	3479.4	3440.3	3386.2	3265.9	3172.6
45°	3365.1	3386.2	3338.0	3347.1	3308.0	3268.9	3214.8	3157.6	3103.5	2989.2	2884.0
47.5°	3082.4	3097.5	3064.4	3070.4	3028.3	2992.2	2944.1	2871.9	2811.8	2712.5	2619.3
50°	2790.7	2784.7	2784.7	2778.7	2745.6	2700.5	2652.4	2586.2	2526.1	2435.9	2357.7
52.5°	2481.0	2493.0	2499.0	2514.1	2472.0	2444.9	2369.7	2312.6	2267.5	2174.2	2108.1
55°	2183.3	2225.4	2213.3	2219.4	2171.2	2150.2	2090.0	2044.9	1978.8	1924.6	1882.5
57.5°	1912.6	1921.6	1927.6	1936.7	1915.6	1873.5	1825.4	1789.3	1738.2	1693.1	1663.0
60°	1651.0	1651.0	1654.0	1669.0	1648.0	1611.9	1575.8	1548.7	1512.6	1485.6	1467.5
62.5°	1404.4	1425.4	1428.4	1416.4	1389.3	1371.3	1347.2	1332.2	1308.2	1299.1	1293.1
65°	1175.8	1175.8	1175.8	1181.8	1166.8	1154.8	1139.7	1136.7	1145.8	1133.7	1139.7
67.5°	983.4	974.3	968.3	971.3	965.3	959.3	956.3	965.3	983.4	983.4	998.4
70°	818.0	799.9	787.9	787.9	787.9	790.9	799.9	818.0	848.0	860.1	881.1
72.5°	682.6	643.6	625.5	625.5	628.5	640.5	667.6	700.7	727.8	751.8	778.9
75°	553.3	514.2	487.2	484.2	490.2	508.2	547.3	577.4	622.5	655.6	688.7
77.5°	448.1	400.0	366.9	363.9	372.9	400.0	448.1	487.2	538.3	574.4	610.5
80°	357.9	303.7	276.7	258.6	273.7	306.7	360.9	409.0	457.1	505.2	550.3
82.5°	285.7	234.6	192.5	174.4	192.5	237.6	288.7	345.8	393.9	445.1	490.2
85°	225.5	171.4	123.3	105.3	126.3	174.4	231.6	288.7	342.8	393.9	439.1
87.5°	177.4	123.3	75.2	51.1	78.2	129.3	183.4	240.6	297.7	348.8	393.9
90°	138.3	87.2	42.1	6.0	45.1	93.2	147.4	201.5	258.6	309.7	354.9
92.5°	117.3	66.2	24.1	0.0	27.1	69.2	120.3	174.4	225.5	276.7	321.8
95°	99.2	54.1	18.0	0.0	18.0	54.1	99.2	147.4	198.5	249.6	294.7
97.5°	84.2	42.1	12.0	0.0	12.0	42.1	81.2	129.3	174.4	222.5	264.6
100°	72.2	36.1	9.0	0.0	9.0	33.1	69.2	111.3	156.4	201.5	240.6
102.5°	63.2	30.1	6.0	0.0	6.0	27.1	57.1	96.2	135.3	177.4	216.5
105°	54.1	24.1	6.0	0.0	3.0	21.1	48.1	84.2	120.3	159.4	195.5
107.5°	48.1	21.1	6.0	0.0	3.0	18.0	42.1	72.2	108.3	141.3	174.4
110°	42.1	18.0	6.0	0.0	3.0	12.0	36.1	63.2	93.2	126.3	159.4



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	36.1	15.0	3.0	0.0	0.0	9.0	30.1	54.1	81.2	114.3	141.3
115°	33.1	15.0	3.0	0.0	0.0	6.0	24.1	48.1	72.2	102.2	126.3
117.5°	30.1	12.0	3.0	0.0	3.0	6.0	21.1	42.1	63.2	87.2	114.3
120°	27.1	12.0	3.0	0.0	3.0	3.0	15.0	36.1	54.1	78.2	99.2
122.5°	24.1	12.0	3.0	0.0	3.0	3.0	12.0	30.1	48.1	69.2	87.2
125°	21.1	9.0	6.0	3.0	3.0	3.0	9.0	24.1	42.1	57.1	78.2
127.5°	21.1	9.0	6.0	3.0	3.0	3.0	6.0	21.1	33.1	51.1	69.2
130°	18.0	9.0	6.0	3.0	3.0	3.0	3.0	15.0	30.1	42.1	57.1
132.5°	15.0	9.0	6.0	3.0	3.0	3.0	3.0	9.0	21.1	36.1	48.1
135°	15.0	9.0	6.0	3.0	3.0	3.0	3.0	6.0	15.0	27.1	39.1
137.5°	12.0	6.0	6.0	3.0	3.0	3.0	3.0	3.0	12.0	21.1	30.1
140°	12.0	6.0	6.0	3.0	3.0	3.0	3.0	3.0	9.0	15.0	24.1
142.5°	9.0	6.0	6.0	3.0	3.0	3.0	3.0	3.0	6.0	12.0	18.0
145°	9.0	6.0	6.0	3.0	3.0	3.0	3.0	3.0	3.0	6.0	12.0
147.5°	9.0	9.0	6.0	3.0	3.0	3.0	3.0	3.0	3.0	6.0	9.0
150°	9.0	6.0	6.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	6.0
152.5°	9.0	6.0	6.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	6.0
155°	9.0	6.0	6.0	3.0	3.0	3.0	3.0	3.0	3.0	6.0	6.0
157.5°	9.0	6.0	6.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	6.0
160°	9.0	6.0	6.0	3.0	6.0	3.0	6.0	6.0	6.0	6.0	6.0
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-LD5-170HL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	5467.2	5467.2	5467.2	5467.2	5467.2	5467.2	5467.2	5467.2	5467.2	5467.2	5467.2
2.5°	5482.2	5425.1	5455.2	5446.1	5458.2	5482.2	5479.2	5473.2	5473.2	5464.2	5452.1
5°	5464.2	5410.0	5437.1	5422.1	5437.1	5458.2	5455.2	5446.1	5452.1	5437.1	5422.1
7.5°	5428.1	5380.0	5404.0	5392.0	5404.0	5425.1	5416.1	5413.1	5419.1	5395.0	5386.0
10°	5386.0	5331.9	5358.9	5343.9	5358.9	5374.0	5367.9	5355.9	5367.9	5343.9	5334.9
12.5°	5319.8	5274.7	5292.8	5286.7	5295.8	5310.8	5298.8	5289.8	5295.8	5274.7	5256.7
15°	5247.7	5202.5	5217.6	5208.6	5214.6	5232.6	5211.6	5208.6	5202.5	5181.5	5175.5
17.5°	5154.4	5112.3	5127.4	5112.3	5121.3	5115.3	5112.3	5097.3	5097.3	5073.2	5055.2
20°	5040.2	5004.1	4995.0	4983.0	4995.0	4983.0	4965.0	4952.9	4949.9	4925.9	4910.8
22.5°	4907.8	4865.7	4871.7	4838.7	4841.7	4823.6	4793.6	4781.5	4769.5	4742.4	4721.4
25°	4748.4	4706.3	4676.3	4655.2	4628.2	4625.2	4586.1	4556.0	4553.0	4519.9	4516.9
27.5°	4568.0	4519.9	4495.8	4444.7	4411.6	4384.6	4351.5	4321.4	4306.4	4270.3	4246.2
30°	4360.5	4306.4	4246.2	4210.2	4159.0	4138.0	4080.8	4044.8	4032.7	3993.6	3975.6
32.5°	4125.9	4068.8	4020.7	3951.5	3894.4	3864.3	3807.2	3771.1	3756.1	3714.0	3689.9
35°	3870.3	3807.2	3750.0	3683.9	3638.8	3587.7	3518.5	3482.4	3449.3	3434.3	3416.2
37.5°	3602.7	3533.5	3467.4	3401.2	3362.1	3302.0	3241.8	3217.8	3178.7	3163.6	3145.6
40°	3326.0	3256.9	3193.7	3130.5	3085.4	3031.3	2977.2	2968.2	2926.1	2911.0	2899.0
42.5°	3052.4	2980.2	2908.0	2862.9	2829.8	2775.7	2739.6	2730.6	2694.5	2685.5	2685.5
45°	2805.8	2715.5	2655.4	2616.3	2589.2	2544.1	2514.1	2508.0	2478.0	2472.0	2472.0
47.5°	2541.1	2456.9	2411.8	2387.8	2363.7	2330.6	2312.6	2312.6	2282.5	2276.5	2273.5
50°	2294.5	2216.3	2183.3	2159.2	2156.2	2132.1	2117.1	2111.1	2111.1	2090.0	2093.0
52.5°	2060.0	2020.9	1993.8	1978.8	1960.7	1945.7	1933.7	1933.7	1924.6	1909.6	1915.6
55°	1843.4	1798.3	1801.3	1789.3	1780.3	1771.3	1774.3	1756.2	1753.2	1741.2	1750.2
57.5°	1626.9	1626.9	1620.9	1611.9	1596.9	1602.9	1602.9	1602.9	1587.8	1578.8	1587.8
60°	1443.5	1452.5	1437.5	1446.5	1440.5	1443.5	1437.5	1437.5	1428.4	1425.4	1428.4
62.5°	1281.1	1296.1	1290.1	1302.1	1296.1	1299.1	1305.1	1293.1	1287.1	1281.1	1287.1
65°	1136.7	1154.8	1151.8	1160.8	1163.8	1166.8	1169.8	1163.8	1157.8	1151.8	1148.8
67.5°	1010.4	1028.5	1040.5	1043.5	1046.5	1055.5	1052.5	1046.5	1040.5	1031.5	1028.5
70°	896.2	920.2	935.3	941.3	953.3	947.3	947.3	944.3	938.3	929.2	926.2
72.5°	799.9	827.0	842.0	848.0	860.1	860.1	857.1	854.1	848.0	839.0	836.0
75°	715.7	739.8	760.8	772.9	781.9	781.9	778.9	775.9	769.9	763.8	760.8
77.5°	649.6	670.6	688.7	703.7	709.7	712.7	709.7	703.7	703.7	700.7	697.7
80°	583.4	607.5	625.5	640.5	649.6	649.6	646.6	649.6	643.6	640.5	637.5
82.5°	526.3	553.3	574.4	589.4	595.4	598.4	595.4	598.4	592.4	592.4	592.4
85°	475.1	502.2	526.3	538.3	547.3	550.3	550.3	550.3	547.3	547.3	547.3
87.5°	433.0	460.1	484.2	496.2	505.2	508.2	508.2	511.2	505.2	505.2	505.2
90°	393.9	421.0	445.1	457.1	466.1	472.1	472.1	475.1	472.1	469.1	469.1
92.5°	357.9	387.9	412.0	424.0	433.0	442.1	442.1	445.1	439.1	439.1	439.1
95°	327.8	357.9	378.9	393.9	403.0	409.0	412.0	412.0	409.0	409.0	409.0
97.5°	300.7	327.8	348.8	363.9	372.9	375.9	378.9	381.9	378.9	378.9	378.9
100°	273.7	300.7	321.8	333.8	345.8	348.8	351.8	354.9	354.9	351.8	351.8
102.5°	249.6	276.7	294.7	309.7	318.8	324.8	327.8	327.8	327.8	327.8	327.8
105°	225.5	252.6	270.7	285.7	294.7	300.7	303.7	306.7	306.7	303.7	303.7
107.5°	204.5	228.6	249.6	261.6	273.7	279.7	282.7	282.7	285.7	282.7	282.7
110°	183.4	210.5	228.6	240.6	252.6	258.6	261.6	264.6	264.6	264.6	264.6



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	168.4	189.5	207.5	219.5	231.6	237.6	240.6	243.6	246.6	243.6	243.6
115°	150.4	171.4	189.5	201.5	210.5	216.5	222.5	225.5	225.5	228.6	225.5
117.5°	135.3	153.4	171.4	183.4	192.5	201.5	204.5	207.5	210.5	207.5	207.5
120°	120.3	138.3	153.4	165.4	174.4	183.4	186.4	189.5	192.5	189.5	189.5
122.5°	108.3	123.3	138.3	150.4	159.4	165.4	171.4	171.4	174.4	174.4	174.4
125°	96.2	111.3	123.3	135.3	144.3	150.4	153.4	156.4	156.4	159.4	159.4
127.5°	84.2	96.2	111.3	120.3	129.3	135.3	138.3	141.3	141.3	144.3	144.3
130°	72.2	84.2	96.2	105.3	114.3	120.3	123.3	126.3	129.3	129.3	129.3
132.5°	63.2	75.2	84.2	93.2	99.2	105.3	111.3	114.3	114.3	114.3	114.3
135°	51.1	63.2	72.2	81.2	87.2	93.2	96.2	102.2	102.2	102.2	102.2
137.5°	42.1	54.1	63.2	69.2	75.2	81.2	84.2	87.2	90.2	90.2	90.2
140°	33.1	42.1	51.1	60.1	66.2	69.2	75.2	75.2	78.2	78.2	78.2
142.5°	24.1	33.1	39.1	48.1	54.1	60.1	63.2	66.2	66.2	66.2	66.2
145°	18.0	24.1	30.1	36.1	45.1	48.1	51.1	54.1	57.1	57.1	57.1
147.5°	12.0	18.0	21.1	27.1	33.1	39.1	42.1	45.1	48.1	48.1	48.1
150°	9.0	12.0	18.0	21.1	24.1	30.1	36.1	36.1	39.1	39.1	36.1
152.5°	6.0	9.0	12.0	15.0	18.0	21.1	27.1	27.1	30.1	30.1	30.1
155°	6.0	6.0	6.0	9.0	12.0	15.0	18.0	21.1	21.1	21.1	21.1
157.5°	6.0	6.0	6.0	6.0	6.0	9.0	12.0	15.0	15.0	15.0	15.0
160°	6.0	6.0	3.0	3.0	6.0	6.0	6.0	6.0	9.0	9.0	9.0
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-LD5-170HL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	5467.2	5467.2	5467.2	5467.2	5467.2	5467.2	5467.2	5467.2	5467.2	5467.2	5467.2
2.5°	5461.2	5467.2	5467.2	5461.2	5458.2	5470.2	5455.2	5398.0	5416.1	5422.1	5440.1
5°	5434.1	5440.1	5440.1	5440.1	5434.1	5446.1	5431.1	5374.0	5395.0	5404.0	5416.1
7.5°	5395.0	5398.0	5404.0	5401.0	5395.0	5413.1	5398.0	5340.9	5355.9	5371.0	5386.0
10°	5343.9	5343.9	5346.9	5352.9	5346.9	5361.9	5346.9	5295.8	5310.8	5319.8	5337.9
12.5°	5274.7	5280.7	5283.7	5280.7	5277.7	5289.8	5283.7	5235.6	5241.6	5259.7	5277.7
15°	5181.5	5181.5	5196.5	5190.5	5190.5	5202.5	5208.6	5154.4	5163.4	5190.5	5208.6
17.5°	5067.2	5070.2	5082.3	5088.3	5085.3	5106.3	5109.3	5067.2	5064.2	5097.3	5115.3
20°	4919.9	4925.9	4940.9	4952.9	4952.9	4977.0	4986.0	4959.0	4962.0	4998.1	5004.1
22.5°	4739.4	4739.4	4766.5	4784.5	4799.6	4814.6	4841.7	4817.6	4817.6	4865.7	4892.8
25°	4516.9	4537.9	4547.0	4583.1	4604.1	4646.2	4670.3	4673.3	4676.3	4721.4	4739.4
27.5°	4270.3	4276.3	4303.4	4345.5	4369.5	4408.6	4453.7	4462.8	4477.8	4537.9	4565.0
30°	3990.6	4008.7	4020.7	4080.8	4113.9	4165.0	4222.2	4243.2	4255.3	4336.5	4369.5
32.5°	3704.9	3710.9	3762.1	3795.2	3834.2	3888.4	3954.5	3993.6	4017.7	4101.9	4150.0
35°	3419.2	3431.3	3473.4	3515.5	3554.6	3608.7	3677.9	3732.0	3774.1	3849.3	3912.4
37.5°	3157.6	3187.7	3196.7	3238.8	3268.9	3323.0	3371.1	3449.3	3491.4	3569.6	3650.8
40°	2923.0	2932.1	2938.1	2980.2	3001.2	3052.4	3121.5	3172.6	3229.8	3286.9	3383.2
42.5°	2691.5	2697.5	2706.5	2730.6	2754.6	2790.7	2841.9	2893.0	2953.1	3037.3	3100.5
45°	2478.0	2484.0	2490.0	2505.0	2526.1	2559.2	2592.3	2628.3	2688.5	2760.7	2826.8
47.5°	2279.5	2291.5	2291.5	2294.5	2309.6	2336.6	2360.7	2405.8	2438.9	2478.0	2553.2
50°	2090.0	2099.1	2102.1	2102.1	2111.1	2129.1	2135.1	2165.2	2195.3	2231.4	2285.5
52.5°	1912.6	1912.6	1909.6	1921.6	1921.6	1933.7	1936.7	1954.7	1975.8	2014.9	2038.9
55°	1744.2	1744.2	1753.2	1747.2	1747.2	1753.2	1750.2	1753.2	1771.3	1795.3	1816.4
57.5°	1581.8	1578.8	1587.8	1581.8	1578.8	1584.8	1590.8	1578.8	1581.8	1605.9	1605.9
60°	1419.4	1422.4	1431.5	1425.4	1425.4	1425.4	1419.4	1413.4	1407.4	1422.4	1428.4
62.5°	1290.1	1281.1	1290.1	1281.1	1287.1	1284.1	1278.1	1266.1	1269.1	1263.0	1257.0
65°	1154.8	1154.8	1157.8	1148.8	1154.8	1154.8	1145.8	1142.8	1124.7	1118.7	1103.7
67.5°	1037.5	1037.5	1040.5	1034.5	1034.5	1037.5	1028.5	1019.5	1001.4	992.4	971.3
70°	935.3	935.3	935.3	932.2	932.2	932.2	926.2	914.2	896.2	881.1	854.1
72.5°	842.0	845.0	842.0	842.0	851.1	842.0	833.0	821.0	805.9	775.9	751.8
75°	766.8	769.9	766.8	766.8	766.8	763.8	760.8	742.8	724.7	700.7	664.6
77.5°	700.7	700.7	703.7	700.7	700.7	697.7	688.7	673.6	652.6	631.5	589.4
80°	637.5	640.5	643.6	646.6	640.5	637.5	628.5	616.5	589.4	565.4	523.3
82.5°	592.4	589.4	592.4	595.4	589.4	586.4	577.4	562.4	541.3	508.2	466.1
85°	547.3	544.3	544.3	547.3	544.3	538.3	529.3	514.2	493.2	460.1	418.0
87.5°	502.2	505.2	508.2	505.2	502.2	496.2	487.2	472.1	448.1	421.0	375.9
90°	469.1	469.1	469.1	469.1	466.1	460.1	451.1	433.0	412.0	378.9	339.8
92.5°	439.1	439.1	439.1	439.1	436.1	427.0	418.0	403.0	378.9	345.8	309.7
95°	409.0	412.0	409.0	409.0	403.0	400.0	384.9	369.9	348.8	315.8	276.7
97.5°	375.9	378.9	375.9	375.9	372.9	366.9	357.9	339.8	318.8	288.7	252.6
100°	351.8	351.8	348.8	348.8	345.8	339.8	327.8	312.8	291.7	261.6	225.5
102.5°	324.8	327.8	324.8	324.8	318.8	312.8	303.7	288.7	267.6	237.6	204.5
105°	303.7	303.7	300.7	300.7	294.7	288.7	279.7	261.6	243.6	216.5	183.4
107.5°	282.7	282.7	279.7	279.7	273.7	267.6	255.6	240.6	222.5	195.5	165.4
110°	261.6	261.6	261.6	258.6	252.6	243.6	234.6	219.5	201.5	177.4	147.4



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	246.6	243.6	240.6	237.6	231.6	225.5	213.5	198.5	180.4	159.4	132.3
115°	225.5	225.5	222.5	219.5	213.5	204.5	195.5	183.4	165.4	141.3	117.3
117.5°	207.5	207.5	204.5	201.5	195.5	186.4	177.4	165.4	147.4	126.3	105.3
120°	189.5	189.5	186.4	183.4	177.4	168.4	162.4	147.4	132.3	111.3	93.2
122.5°	174.4	171.4	171.4	165.4	162.4	153.4	144.3	132.3	117.3	99.2	81.2
125°	156.4	156.4	153.4	150.4	147.4	138.3	129.3	117.3	102.2	87.2	72.2
127.5°	141.3	141.3	138.3	135.3	132.3	123.3	114.3	105.3	90.2	75.2	60.1
130°	126.3	126.3	123.3	120.3	117.3	108.3	102.2	90.2	78.2	66.2	51.1
132.5°	114.3	114.3	111.3	108.3	102.2	96.2	90.2	78.2	69.2	57.1	45.1
135°	102.2	99.2	99.2	96.2	90.2	84.2	78.2	69.2	57.1	48.1	36.1
137.5°	90.2	87.2	84.2	81.2	78.2	72.2	66.2	60.1	51.1	39.1	30.1
140°	78.2	75.2	75.2	72.2	66.2	63.2	57.1	48.1	42.1	33.1	24.1
142.5°	66.2	66.2	63.2	60.1	57.1	54.1	48.1	42.1	33.1	27.1	18.0
145°	57.1	54.1	54.1	51.1	48.1	42.1	39.1	33.1	27.1	21.1	15.0
147.5°	45.1	45.1	45.1	42.1	39.1	36.1	33.1	27.1	21.1	15.0	9.0
150°	36.1	36.1	36.1	33.1	30.1	27.1	24.1	21.1	15.0	9.0	6.0
152.5°	30.1	30.1	27.1	27.1	24.1	21.1	18.0	15.0	9.0	6.0	6.0
155°	21.1	21.1	21.1	18.0	18.0	15.0	12.0	9.0	6.0	6.0	6.0
157.5°	15.0	15.0	15.0	12.0	12.0	9.0	9.0	6.0	6.0	6.0	6.0
160°	9.0	9.0	9.0	9.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
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-LD5-170HL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	5467.2	5467.2	5467.2	5467.2	5467.2	5467.2	5467.2
2.5°	5431.1	5428.1	5452.1	5452.1	5425.1	5467.2	5512.3
5°	5413.1	5410.0	5434.1	5434.1	5410.0	5452.1	5500.3
7.5°	5377.0	5380.0	5404.0	5410.0	5380.0	5419.1	5470.2
10°	5337.9	5334.9	5361.9	5367.9	5343.9	5380.0	5428.1
12.5°	5274.7	5274.7	5301.8	5310.8	5286.7	5328.8	5374.0
15°	5208.6	5208.6	5226.6	5241.6	5220.6	5259.7	5304.8
17.5°	5124.4	5121.3	5139.4	5157.4	5136.4	5178.5	5226.6
20°	5016.1	5016.1	5037.1	5058.2	5043.2	5082.3	5136.4
22.5°	4901.8	4889.8	4925.9	4940.9	4931.9	4971.0	5025.1
25°	4757.5	4754.5	4790.6	4811.6	4799.6	4841.7	4889.8
27.5°	4601.1	4598.1	4634.2	4661.2	4655.2	4694.3	4748.4
30°	4411.6	4426.7	4459.8	4504.9	4489.8	4531.9	4589.1
32.5°	4213.2	4228.2	4267.3	4315.4	4318.4	4351.5	4408.6
35°	3975.6	4014.7	4041.7	4104.9	4116.9	4150.0	4210.2
37.5°	3726.0	3771.1	3828.2	3876.3	3900.4	3927.5	3996.6
40°	3446.3	3512.5	3575.6	3632.8	3662.8	3689.9	3756.1
42.5°	3193.7	3244.8	3305.0	3362.1	3416.2	3440.3	3509.5
45°	2908.0	2968.2	3022.3	3091.5	3145.6	3172.6	3241.8
47.5°	2628.3	2688.5	2760.7	2808.8	2865.9	2893.0	2959.1
50°	2360.7	2414.8	2475.0	2532.1	2580.2	2604.3	2661.4
52.5°	2096.1	2153.2	2210.3	2246.4	2297.5	2315.6	2363.7
55°	1861.5	1900.6	1951.7	1972.8	2023.9	2035.9	2069.0
57.5°	1635.9	1663.0	1681.1	1717.1	1753.2	1780.3	1819.4
60°	1431.5	1443.5	1455.5	1476.6	1506.6	1515.7	1530.7
62.5°	1248.0	1245.0	1269.1	1275.1	1278.1	1308.2	1293.1
65°	1085.6	1088.6	1067.6	1058.6	1070.6	1079.6	1073.6
67.5°	950.3	932.2	914.2	893.2	875.1	884.1	875.1
70°	818.0	802.9	772.9	742.8	730.8	712.7	703.7
72.5°	712.7	676.6	646.6	607.5	586.4	565.4	550.3
75°	631.5	580.4	538.3	496.2	466.1	436.1	430.0
77.5°	547.3	499.2	451.1	406.0	360.9	327.8	315.8
80°	481.2	436.1	378.9	324.8	276.7	234.6	219.5
82.5°	421.0	372.9	315.8	258.6	204.5	159.4	141.3
85°	369.9	318.8	261.6	204.5	150.4	102.2	78.2
87.5°	330.8	273.7	216.5	162.4	105.3	57.1	30.1
90°	294.7	240.6	186.4	129.3	75.2	30.1	0.0
92.5°	261.6	210.5	156.4	105.3	57.1	18.0	3.0
95°	231.6	186.4	132.3	84.2	42.1	12.0	3.0
97.5°	207.5	162.4	114.3	69.2	33.1	9.0	3.0
100°	186.4	141.3	99.2	57.1	27.1	6.0	3.0
102.5°	165.4	126.3	84.2	48.1	21.1	3.0	3.0
105°	147.4	111.3	72.2	42.1	18.0	3.0	3.0
107.5°	132.3	99.2	63.2	36.1	12.0	3.0	3.0
110°	117.3	84.2	54.1	30.1	9.0	3.0	3.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-170HL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	105.3	75.2	48.1	24.1	6.0	3.0	3.0
115°	93.2	66.2	42.1	21.1	6.0	3.0	3.0
117.5°	81.2	57.1	36.1	15.0	3.0	3.0	3.0
120°	72.2	51.1	30.1	12.0	3.0	3.0	3.0
122.5°	63.2	42.1	24.1	9.0	3.0	3.0	3.0
125°	54.1	36.1	21.1	6.0	3.0	3.0	3.0
127.5°	45.1	30.1	15.0	6.0	3.0	3.0	3.0
130°	39.1	24.1	12.0	3.0	3.0	3.0	3.0
132.5°	33.1	18.0	9.0	3.0	3.0	3.0	3.0
135°	27.1	15.0	6.0	3.0	3.0	3.0	3.0
137.5°	21.1	12.0	6.0	3.0	3.0	3.0	3.0
140°	15.0	9.0	3.0	3.0	3.0	3.0	3.0
142.5°	12.0	6.0	3.0	3.0	3.0	3.0	3.0
145°	9.0	6.0	3.0	3.0	3.0	3.0	3.0
147.5°	6.0	6.0	6.0	6.0	3.0	3.0	3.0
150°	6.0	6.0	3.0	3.0	6.0	3.0	3.0
152.5°	6.0	3.0	3.0	3.0	6.0	3.0	3.0
155°	6.0	6.0	6.0	6.0	6.0	6.0	3.0
157.5°	6.0	6.0	6.0	6.0	6.0	6.0	6.0
160°	6.0	6.0	6.0	6.0	6.0	6.0	6.0
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)