

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

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P#

Luminaire Tested: **8SNLED-LD5-136SL-LN-UNV-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-LD5-136SL-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: 11797.0 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

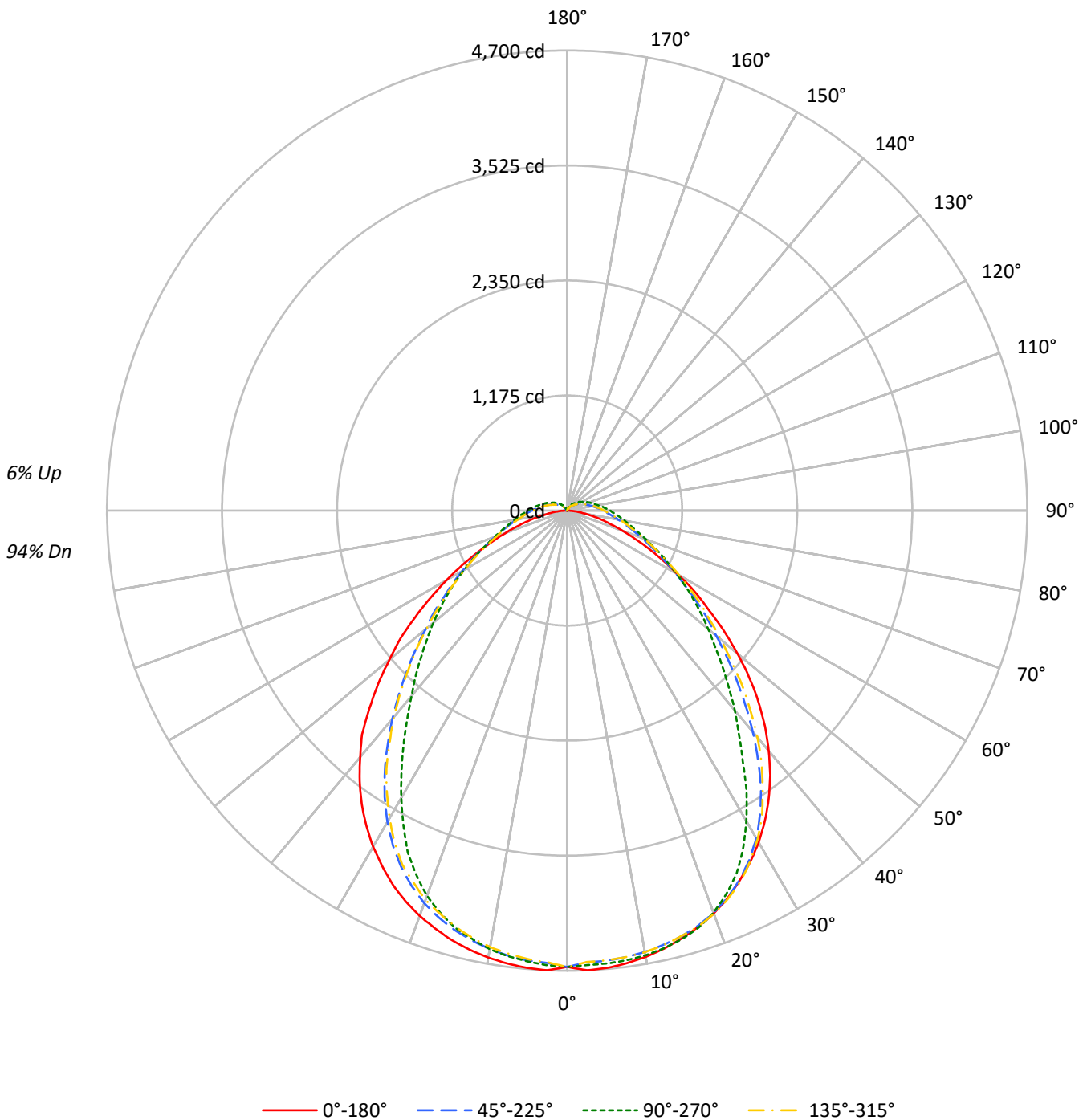
Input Watts (W): 110
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-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°	18835	18835	18835	18835
5°	18995	18235	18995	18154
10°	18937	17751	18968	17504
15°	18841	17220	18926	16772
20°	18724	16538	18834	15840
25°	18453	15527	18657	14612
30°	18092	14040	18329	12998
35°	17515	12218	17852	11377
40°	16673	10686	17113	9915
45°	15551	9289	16056	8757
50°	14003	8163	14620	7751
55°	12156	7208	13039	6844
60°	10269	6329	11197	5964
65°	8468	5596	9322	5188
70°	6796	4965	7610	4593
75°	5409	4585	6089	4218
80°	4001	4424	4713	4043
85°	2624	4449	3528	4090



TEST NUMBER: P#

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	441.9	3.7
10°-20°	1267.2	10.7
20°-30°	1878.1	15.9
30°-40°	2086.5	17.7
40°-50°	1891.4	16.0
50°-60°	1465.6	12.4
60°-70°	995.3	8.4
70°-80°	633.2	5.4
80°-90°	404.8	3.4
90°-100°	272.9	2.3
100°-110°	187.0	1.6
110°-120°	124.7	1.1
120°-130°	77.6	0.7
130°-140°	42.9	0.4
140°-150°	20.1	0.2
150°-160°	7.4	0.1
160°-170°	0.5	0.0
170°-180°	0.0	0.0
0°-30°	3587.2	30.4
0°-40°	5673.7	48.1
0°-60°	9030.7	76.6
0°-90°	11064.0	93.8
90°-120°	584.6	5.0
90°-150°	725.2	6.1
90°-180°	733.0	6.2
0°-180°	11797.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4662	4662	4662	4662	4662	
5°	4690	4644	4690	4623	4690	445
15°	4523	4531	4544	4413	4523	1277
25°	4169	4092	4215	3851	4169	1920
35°	3590	3128	3659	2913	3590	2239
45°	2764	2236	2854	2108	2764	2123
55°	1764	1572	1892	1492	1764	1588
65°	915	1056	1008	980	915	918
75°	367	705	413	649	367	395
85°	67	508	90	467	67	80
90°	0	438	5	400	0	4
95°	3	374	0	349	3	2
105°	3	274	0	259	3	3
115°	3	208	0	192	3	3
125°	3	154	3	136	3	2
135°	3	108	3	87	3	2
145°	3	69	3	49	3	2
155°	3	38	3	18	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-LD5-136SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4661.5	4661.5	4661.5	4661.5	4661.5	4661.5	4661.5	4661.5	4661.5	4661.5	4661.5
2.5°	4699.9	4694.8	4689.7	4682.0	4689.7	4710.2	4697.4	4669.2	4664.1	4617.9	4638.4
5°	4689.7	4682.0	4676.9	4669.2	4679.4	4705.1	4692.3	4666.6	4658.9	4615.3	4638.4
7.5°	4664.1	4658.9	4651.2	4651.2	4661.5	4687.1	4676.9	4648.7	4643.5	4600.0	4625.6
10°	4628.2	4625.6	4620.5	4620.5	4630.7	4661.5	4648.7	4623.0	4617.9	4576.9	4605.1
12.5°	4582.0	4584.6	4576.9	4576.9	4592.3	4623.0	4612.8	4584.6	4579.4	4543.5	4571.7
15°	4523.0	4525.6	4520.5	4523.0	4538.4	4574.3	4561.5	4535.8	4530.7	4502.5	4525.6
17.5°	4456.4	4458.9	4458.9	4456.4	4474.3	4510.2	4500.0	4476.9	4469.2	4446.1	4474.3
20°	4379.4	4379.4	4379.4	4379.4	4400.0	4435.8	4423.0	4405.1	4389.7	4371.7	4394.8
22.5°	4284.6	4282.0	4284.6	4292.3	4312.8	4341.0	4333.3	4312.8	4289.7	4279.4	4297.4
25°	4169.2	4176.9	4179.4	4187.1	4212.8	4235.9	4228.2	4207.6	4171.7	4164.1	4169.2
27.5°	4048.7	4053.8	4061.5	4058.9	4094.8	4117.9	4102.5	4084.6	4033.3	4025.6	4020.5
30°	3912.8	3920.5	3925.6	3923.0	3951.2	3976.9	3961.5	3938.4	3869.2	3864.1	3823.0
32.5°	3758.9	3766.6	3771.8	3771.8	3812.8	3823.0	3794.8	3761.5	3687.1	3669.2	3633.3
35°	3589.7	3597.4	3600.0	3600.0	3641.0	3638.4	3602.5	3556.4	3474.3	3451.2	3389.7
37.5°	3407.7	3412.8	3415.3	3430.7	3448.7	3433.3	3387.1	3328.2	3266.6	3202.5	3135.9
40°	3202.5	3210.2	3215.3	3225.6	3243.6	3225.6	3158.9	3087.1	3020.5	2948.7	2882.0
42.5°	2992.3	3015.4	3010.2	3007.7	3017.9	2969.2	2917.9	2835.9	2769.2	2694.8	2628.2
45°	2764.1	2761.5	2774.3	2779.5	2776.9	2735.9	2664.1	2589.7	2523.0	2446.1	2389.7
47.5°	2523.0	2520.5	2530.7	2535.9	2520.5	2476.9	2420.5	2335.9	2279.5	2212.8	2169.2
50°	2269.2	2269.2	2284.6	2269.2	2261.5	2217.9	2171.8	2087.2	2043.6	1984.6	1959.0
52.5°	2015.4	2038.4	2023.1	2017.9	2010.2	1966.6	1930.7	1861.5	1825.6	1800.0	1769.2
55°	1764.1	1789.7	1779.5	1771.8	1769.2	1733.3	1700.0	1648.7	1625.6	1607.7	1589.7
57.5°	1551.3	1548.7	1543.6	1535.9	1538.4	1510.2	1476.9	1448.7	1438.4	1430.8	1435.9
60°	1305.1	1325.6	1317.9	1320.5	1323.1	1317.9	1289.7	1271.8	1274.3	1276.9	1284.6
62.5°	1102.6	1120.5	1133.3	1123.1	1128.2	1135.9	1120.5	1115.4	1125.6	1135.9	1146.1
65°	915.4	933.3	946.1	943.6	959.0	974.3	971.8	976.9	1000.0	1012.8	1025.6
67.5°	746.1	764.1	782.0	784.6	807.7	830.8	841.0	859.0	884.6	902.6	917.9
70°	600.0	615.4	635.9	648.7	679.5	710.2	728.2	764.1	779.5	805.1	815.4
72.5°	469.2	482.0	510.3	541.0	566.7	605.1	641.0	671.8	694.9	723.1	735.9
75°	366.7	371.8	402.6	438.5	474.4	517.9	556.4	589.7	620.5	648.7	669.2
77.5°	269.2	276.9	305.1	353.8	394.9	441.0	484.6	520.5	553.8	582.0	610.2
80°	187.2	202.6	233.3	282.0	328.2	379.5	420.5	461.5	497.4	525.6	553.8
82.5°	120.5	133.3	176.9	225.6	274.4	325.6	369.2	410.3	448.7	479.5	505.1
85°	66.7	84.6	128.2	179.5	228.2	279.5	325.6	366.7	405.1	433.3	459.0
87.5°	25.6	51.3	92.3	141.0	189.7	238.5	287.2	325.6	364.1	394.9	417.9
90°	0.0	30.8	69.2	117.9	166.7	215.4	261.5	302.6	338.5	366.7	392.3
92.5°	2.6	20.5	53.8	94.9	141.0	187.2	230.8	271.8	307.7	335.9	359.0
95°	2.6	15.4	43.6	82.1	123.1	166.7	207.7	246.2	279.5	307.7	330.8
97.5°	2.6	10.3	35.9	71.8	107.7	151.3	189.7	225.6	256.4	284.6	302.6
100°	2.6	10.3	30.8	61.5	97.4	135.9	171.8	207.7	235.9	259.0	279.5
102.5°	2.6	7.7	25.6	53.8	87.2	120.5	156.4	189.7	215.4	238.5	259.0
105°	2.6	7.7	23.1	46.2	76.9	110.3	141.0	171.8	200.0	220.5	238.5
107.5°	2.6	5.1	20.5	38.5	66.7	100.0	130.8	156.4	182.0	202.6	220.5
110°	2.6	5.1	17.9	35.9	59.0	89.7	117.9	143.6	166.7	187.2	202.6



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	2.6	5.1	15.4	33.3	53.8	79.5	107.7	130.8	153.8	171.8	187.2
115°	2.6	5.1	15.4	30.8	48.7	69.2	94.9	120.5	138.5	159.0	171.8
117.5°	2.6	5.1	12.8	25.6	46.2	64.1	87.2	107.7	128.2	146.2	159.0
120°	2.6	5.1	12.8	23.1	41.0	59.0	76.9	97.4	117.9	130.8	143.6
122.5°	2.6	5.1	10.3	23.1	35.9	53.8	69.2	87.2	105.1	120.5	133.3
125°	2.6	5.1	10.3	20.5	33.3	48.7	64.1	76.9	94.9	107.7	120.5
127.5°	2.6	5.1	10.3	17.9	30.8	43.6	59.0	71.8	84.6	97.4	107.7
130°	2.6	5.1	7.7	15.4	28.2	38.5	51.3	66.7	76.9	87.2	97.4
132.5°	2.6	5.1	7.7	15.4	23.1	33.3	46.2	59.0	69.2	79.5	87.2
135°	2.6	5.1	7.7	12.8	20.5	30.8	38.5	51.3	61.5	71.8	79.5
137.5°	2.6	5.1	7.7	12.8	17.9	25.6	33.3	43.6	53.8	61.5	71.8
140°	2.6	5.1	7.7	10.3	15.4	23.1	30.8	35.9	46.2	53.8	61.5
142.5°	2.6	5.1	7.7	10.3	15.4	20.5	25.6	30.8	38.5	46.2	53.8
145°	2.6	5.1	7.7	10.3	12.8	17.9	23.1	28.2	30.8	38.5	43.6
147.5°	2.6	5.1	7.7	10.3	10.3	15.4	20.5	23.1	28.2	30.8	35.9
150°	2.6	5.1	7.7	7.7	10.3	12.8	17.9	20.5	23.1	28.2	30.8
152.5°	2.6	5.1	7.7	7.7	10.3	12.8	15.4	17.9	20.5	23.1	25.6
155°	2.6	5.1	7.7	7.7	7.7	10.3	12.8	15.4	17.9	20.5	23.1
157.5°	5.1	5.1	5.1	7.7	7.7	10.3	10.3	12.8	15.4	15.4	17.9
160°	5.1	5.1	5.1	7.7	7.7	7.7	10.3	10.3	12.8	12.8	15.4
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	4661.5	4661.5	4661.5	4661.5	4661.5	4661.5	4661.5	4661.5	4661.5	4661.5	4661.5
2.5°	4633.3	4641.0	4664.1	4664.1	4658.9	4653.8	4653.8	4646.1	4651.2	4661.5	4656.4
5°	4633.3	4641.0	4664.1	4664.1	4658.9	4653.8	4651.2	4643.5	4651.2	4661.5	4656.4
7.5°	4617.9	4628.2	4651.2	4651.2	4646.1	4643.5	4638.4	4633.3	4641.0	4651.2	4646.1
10°	4597.4	4607.6	4630.7	4630.7	4625.6	4625.6	4617.9	4612.8	4623.0	4630.7	4628.2
12.5°	4566.6	4579.4	4600.0	4597.4	4592.3	4594.8	4587.1	4576.9	4587.1	4594.8	4597.4
15°	4523.0	4538.4	4558.9	4553.8	4546.1	4551.2	4538.4	4530.7	4538.4	4553.8	4551.2
17.5°	4466.6	4476.9	4492.3	4492.3	4484.6	4479.4	4474.3	4466.6	4471.7	4482.0	4484.6
20°	4387.1	4400.0	4407.6	4400.0	4397.4	4389.7	4379.4	4371.7	4382.0	4397.4	4400.0
22.5°	4282.0	4284.6	4302.5	4284.6	4271.7	4269.2	4258.9	4243.5	4258.9	4271.7	4274.3
25°	4151.2	4164.1	4156.4	4125.6	4125.6	4105.1	4100.0	4092.3	4094.8	4117.9	4128.2
27.5°	3984.6	3989.7	3969.2	3943.5	3920.5	3907.6	3889.7	3892.3	3892.3	3923.0	3933.3
30°	3802.5	3774.3	3756.4	3715.3	3697.4	3666.6	3661.5	3661.5	3656.4	3671.8	3717.9
32.5°	3584.6	3546.1	3517.9	3479.4	3448.7	3417.9	3402.5	3410.2	3407.7	3446.1	3461.5
35°	3346.1	3323.0	3264.1	3215.3	3197.4	3151.2	3151.2	3128.2	3143.6	3187.1	3205.1
37.5°	3094.8	3058.9	3010.2	2956.4	2943.6	2907.7	2894.8	2882.0	2915.4	2923.0	2941.0
40°	2838.4	2805.1	2758.9	2707.7	2707.7	2664.1	2664.1	2664.1	2666.6	2682.0	2715.4
42.5°	2594.8	2558.9	2517.9	2482.0	2476.9	2443.6	2443.6	2441.0	2446.1	2458.9	2489.7
45°	2358.9	2330.7	2287.2	2269.2	2271.8	2235.9	2243.6	2235.9	2246.1	2258.9	2269.2
47.5°	2141.0	2123.1	2105.1	2079.5	2071.8	2069.2	2056.4	2046.1	2064.1	2064.1	2079.5
50°	1938.4	1928.2	1917.9	1902.5	1905.1	1894.9	1879.5	1879.5	1892.3	1894.9	1905.1
52.5°	1761.5	1748.7	1735.9	1738.4	1741.0	1735.9	1728.2	1720.5	1728.2	1733.3	1746.1
55°	1584.6	1574.3	1587.2	1582.0	1587.2	1582.0	1576.9	1571.8	1584.6	1576.9	1589.7
57.5°	1425.6	1435.9	1441.0	1430.8	1438.4	1433.3	1435.9	1428.2	1438.4	1443.6	1441.0
60°	1279.5	1294.9	1287.2	1289.7	1300.0	1294.9	1284.6	1292.3	1302.5	1305.1	1302.5
62.5°	1146.1	1164.1	1171.8	1166.7	1169.2	1164.1	1171.8	1161.5	1174.3	1179.5	1171.8
65°	1025.6	1046.1	1051.3	1051.3	1051.3	1046.1	1053.8	1056.4	1061.5	1061.5	1056.4
67.5°	923.1	941.0	946.1	951.3	946.1	941.0	941.0	943.6	953.8	959.0	953.8
70°	830.8	848.7	851.3	851.3	853.8	859.0	848.7	853.8	861.5	864.1	861.5
72.5°	751.3	769.2	774.4	771.8	774.4	776.9	776.9	771.8	779.5	784.6	784.6
75°	687.2	697.4	702.6	702.6	705.1	707.7	707.7	705.1	710.2	712.8	715.4
77.5°	628.2	635.9	643.6	643.6	646.1	643.6	648.7	648.7	651.3	653.8	656.4
80°	569.2	579.5	584.6	587.2	592.3	594.9	594.9	594.9	597.4	600.0	600.0
82.5°	523.1	530.8	538.5	546.1	546.1	548.7	548.7	548.7	551.3	551.3	553.8
85°	476.9	487.2	494.9	500.0	502.6	505.1	505.1	507.7	507.7	507.7	510.3
87.5°	435.9	448.7	453.8	459.0	461.5	466.7	466.7	466.7	469.2	469.2	469.2
90°	407.7	420.5	425.6	430.8	433.3	435.9	435.9	438.5	438.5	441.0	441.0
92.5°	374.4	387.2	397.4	397.4	400.0	405.1	402.6	402.6	405.1	407.7	407.7
95°	348.7	359.0	366.7	369.2	371.8	371.8	371.8	374.4	371.8	374.4	374.4
97.5°	317.9	328.2	335.9	341.0	343.6	343.6	343.6	346.2	343.6	346.2	346.2
100°	292.3	302.6	310.3	312.8	317.9	317.9	317.9	317.9	317.9	317.9	320.5
102.5°	271.8	282.0	287.2	289.7	292.3	294.9	294.9	294.9	294.9	297.4	297.4
105°	251.3	261.5	266.7	269.2	271.8	274.4	274.4	274.4	276.9	276.9	274.4
107.5°	233.3	241.0	246.2	251.3	253.8	253.8	256.4	256.4	256.4	256.4	256.4
110°	215.4	223.1	230.8	235.9	235.9	238.5	238.5	241.0	241.0	238.5	241.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	197.4	207.7	212.8	217.9	220.5	223.1	223.1	223.1	223.1	223.1	223.1
115°	182.0	192.3	197.4	202.6	205.1	207.7	207.7	207.7	207.7	207.7	207.7
117.5°	169.2	179.5	184.6	187.2	189.7	192.3	194.9	194.9	194.9	194.9	192.3
120°	156.4	164.1	169.2	174.4	176.9	179.5	179.5	179.5	179.5	179.5	179.5
122.5°	143.6	151.3	156.4	161.5	164.1	166.7	166.7	166.7	166.7	166.7	166.7
125°	130.8	138.5	143.6	148.7	151.3	153.8	153.8	153.8	153.8	153.8	153.8
127.5°	117.9	125.6	133.3	135.9	138.5	141.0	141.0	141.0	143.6	141.0	141.0
130°	105.1	112.8	120.5	123.1	125.6	128.2	130.8	130.8	130.8	130.8	128.2
132.5°	94.9	102.6	107.7	110.3	115.4	115.4	117.9	117.9	117.9	117.9	115.4
135°	87.2	92.3	97.4	100.0	105.1	105.1	105.1	107.7	107.7	105.1	102.6
137.5°	76.9	82.1	87.2	89.7	92.3	94.9	94.9	97.4	94.9	94.9	94.9
140°	71.8	74.4	79.5	82.1	84.6	84.6	84.6	87.2	87.2	84.6	84.6
142.5°	61.5	66.7	71.8	74.4	76.9	76.9	76.9	76.9	76.9	76.9	76.9
145°	51.3	59.0	61.5	66.7	66.7	69.2	69.2	69.2	69.2	69.2	66.7
147.5°	43.6	48.7	56.4	59.0	59.0	61.5	61.5	61.5	61.5	61.5	59.0
150°	33.3	38.5	46.2	51.3	51.3	53.8	53.8	53.8	53.8	51.3	51.3
152.5°	28.2	33.3	35.9	41.0	43.6	43.6	43.6	46.2	43.6	43.6	43.6
155°	25.6	28.2	30.8	33.3	35.9	38.5	38.5	38.5	38.5	35.9	35.9
157.5°	20.5	23.1	25.6	28.2	30.8	33.3	33.3	33.3	33.3	33.3	30.8
160°	15.4	17.9	20.5	20.5	23.1	25.6	28.2	25.6	25.6	25.6	25.6
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-LD5-136SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	4661.5	4661.5	4661.5	4661.5	4661.5	4661.5	4661.5	4661.5	4661.5	4661.5	4661.5
2.5°	4651.2	4648.7	4656.4	4643.5	4605.1	4615.3	4610.2	4633.3	4638.4	4643.5	4666.6
5°	4651.2	4648.7	4653.8	4643.5	4602.5	4610.2	4605.1	4628.2	4633.3	4635.8	4658.9
7.5°	4641.0	4638.4	4646.1	4633.3	4589.7	4600.0	4592.3	4615.3	4617.9	4620.5	4641.0
10°	4620.5	4617.9	4623.0	4612.8	4569.2	4579.4	4569.2	4592.3	4592.3	4597.4	4612.8
12.5°	4589.7	4584.6	4594.8	4582.0	4533.3	4546.1	4541.0	4556.4	4558.9	4561.5	4576.9
15°	4546.1	4541.0	4548.7	4541.0	4497.4	4500.0	4492.3	4515.3	4517.9	4512.8	4528.2
17.5°	4482.0	4476.9	4492.3	4487.1	4443.5	4453.8	4451.2	4456.4	4464.1	4451.2	4471.7
20°	4402.5	4407.6	4412.8	4415.3	4382.0	4382.0	4379.4	4389.7	4397.4	4387.1	4402.5
22.5°	4284.6	4297.4	4312.8	4317.9	4294.8	4292.3	4307.6	4302.5	4310.2	4305.1	4315.3
25°	4135.9	4161.5	4176.9	4192.3	4179.4	4184.6	4207.6	4212.8	4212.8	4210.2	4220.5
27.5°	3951.2	3984.6	4012.8	4046.1	4033.3	4043.5	4082.0	4087.1	4097.4	4087.1	4107.6
30°	3730.7	3761.5	3815.3	3864.1	3869.2	3884.6	3938.4	3943.5	3971.8	3961.5	3969.2
32.5°	3510.2	3525.6	3587.1	3635.9	3666.6	3705.1	3764.1	3774.3	3812.8	3820.5	3820.5
35°	3233.3	3276.9	3333.3	3402.5	3441.0	3482.0	3561.5	3576.9	3633.3	3651.2	3671.8
37.5°	3000.0	3041.0	3076.9	3148.7	3217.9	3264.1	3328.2	3366.6	3425.6	3458.9	3484.6
40°	2751.3	2784.6	2823.0	2894.8	2953.8	3023.0	3087.1	3133.3	3207.7	3246.1	3279.5
42.5°	2515.4	2541.0	2582.0	2633.3	2694.8	2771.8	2833.3	2887.1	2966.6	3020.5	3058.9
45°	2305.1	2320.5	2356.4	2394.8	2448.7	2528.2	2587.2	2656.4	2720.5	2776.9	2823.0
47.5°	2107.7	2128.2	2146.1	2171.8	2220.5	2269.2	2338.4	2405.1	2469.2	2530.7	2576.9
50°	1925.6	1925.6	1953.8	1971.8	2005.1	2048.7	2102.5	2148.7	2228.2	2271.8	2330.7
52.5°	1748.7	1759.0	1774.3	1784.6	1810.2	1838.4	1882.0	1920.5	1987.2	2028.2	2084.6
55°	1592.3	1602.5	1610.2	1615.4	1630.8	1664.1	1679.5	1710.2	1756.4	1789.7	1838.4
57.5°	1443.6	1448.7	1456.4	1459.0	1461.5	1482.0	1494.9	1502.5	1548.7	1582.0	1623.1
60°	1307.7	1307.7	1315.4	1312.8	1310.2	1320.5	1317.9	1325.6	1353.8	1374.3	1392.3
62.5°	1179.5	1179.5	1182.0	1176.9	1174.3	1174.3	1164.1	1171.8	1179.5	1182.0	1194.9
65°	1061.5	1074.3	1064.1	1066.7	1051.3	1046.1	1041.0	1025.6	1023.1	1012.8	1017.9
67.5°	956.4	966.7	956.4	956.4	943.6	933.3	920.5	894.9	887.2	866.7	861.5
70°	871.8	864.1	869.2	861.5	846.1	833.3	815.4	794.9	769.2	743.6	725.6
72.5°	789.7	789.7	784.6	776.9	769.2	743.6	723.1	700.0	669.2	635.9	610.2
75°	710.2	712.8	712.8	705.1	692.3	669.2	646.1	612.8	579.5	541.0	507.7
77.5°	653.8	653.8	653.8	641.0	628.2	607.7	579.5	543.6	507.7	461.5	423.1
80°	600.0	597.4	597.4	582.0	569.2	546.1	517.9	482.0	443.6	394.9	351.3
82.5°	556.4	553.8	548.7	535.9	517.9	494.9	466.7	428.2	387.2	343.6	289.7
85°	510.3	507.7	502.6	489.7	471.8	451.3	420.5	382.0	341.0	292.3	241.0
87.5°	469.2	466.7	459.0	451.3	430.8	407.7	376.9	341.0	297.4	251.3	200.0
90°	441.0	435.9	430.8	420.5	402.6	376.9	346.2	307.7	264.1	217.9	166.7
92.5°	407.7	405.1	397.4	387.2	371.8	346.2	315.4	279.5	235.9	192.3	143.6
95°	374.4	371.8	366.7	356.4	341.0	317.9	289.7	253.8	212.8	169.2	125.6
97.5°	343.6	343.6	335.9	328.2	310.3	292.3	264.1	230.8	192.3	153.8	112.8
100°	317.9	317.9	310.3	300.0	287.2	269.2	241.0	210.3	174.4	138.5	97.4
102.5°	294.9	292.3	287.2	276.9	264.1	246.2	220.5	192.3	159.0	123.1	87.2
105°	274.4	271.8	266.7	256.4	246.2	225.6	205.1	176.9	143.6	110.3	76.9
107.5°	253.8	251.3	248.7	238.5	225.6	207.7	187.2	159.0	130.8	100.0	69.2
110°	235.9	233.3	228.2	217.9	205.1	189.7	169.2	146.2	117.9	89.7	61.5



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	220.5	217.9	212.8	202.6	192.3	174.4	156.4	130.8	107.7	82.1	53.8
115°	205.1	202.6	197.4	187.2	174.4	159.0	141.0	120.5	94.9	71.8	48.7
117.5°	189.7	187.2	182.0	174.4	161.5	146.2	128.2	107.7	84.6	66.7	43.6
120°	176.9	171.8	166.7	159.0	146.2	133.3	115.4	97.4	76.9	59.0	38.5
122.5°	164.1	159.0	153.8	146.2	133.3	120.5	102.6	87.2	71.8	53.8	35.9
125°	148.7	146.2	141.0	133.3	120.5	107.7	94.9	79.5	64.1	48.7	30.8
127.5°	135.9	133.3	128.2	117.9	107.7	97.4	84.6	71.8	56.4	41.0	28.2
130°	125.6	120.5	115.4	107.7	100.0	89.7	76.9	64.1	51.3	35.9	25.6
132.5°	112.8	107.7	102.6	97.4	89.7	79.5	69.2	56.4	46.2	33.3	23.1
135°	102.6	97.4	92.3	87.2	79.5	71.8	61.5	51.3	41.0	30.8	20.5
137.5°	89.7	87.2	84.6	79.5	71.8	64.1	56.4	43.6	35.9	28.2	17.9
140°	82.1	79.5	76.9	69.2	64.1	56.4	48.7	38.5	30.8	23.1	15.4
142.5°	74.4	71.8	66.7	61.5	56.4	51.3	41.0	35.9	28.2	20.5	15.4
145°	64.1	61.5	59.0	53.8	48.7	41.0	35.9	30.8	25.6	17.9	12.8
147.5°	59.0	56.4	51.3	46.2	41.0	35.9	33.3	28.2	20.5	15.4	10.3
150°	48.7	46.2	43.6	38.5	35.9	33.3	28.2	23.1	17.9	12.8	10.3
152.5°	41.0	38.5	35.9	35.9	30.8	28.2	23.1	20.5	15.4	12.8	7.7
155°	35.9	35.9	33.3	30.8	25.6	23.1	20.5	15.4	12.8	10.3	7.7
157.5°	30.8	28.2	25.6	25.6	23.1	20.5	15.4	12.8	10.3	10.3	7.7
160°	25.6	23.1	23.1	20.5	17.9	15.4	12.8	12.8	10.3	7.7	7.7
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-LD5-136SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4661.5	4661.5	4661.5	4661.5	4661.5	4661.5	4661.5	4661.5	4661.5	4661.5	4661.5
2.5°	4669.2	4641.0	4666.6	4699.9	4699.9	4694.8	4689.7	4699.9	4725.6	4715.3	4684.6
5°	4661.5	4633.3	4656.4	4689.7	4689.7	4682.0	4676.9	4684.6	4712.8	4699.9	4671.7
7.5°	4646.1	4620.5	4635.8	4666.6	4666.6	4658.9	4653.8	4664.1	4687.1	4674.3	4643.5
10°	4617.9	4589.7	4607.6	4635.8	4633.3	4628.2	4620.5	4633.3	4653.8	4635.8	4600.0
12.5°	4582.0	4553.8	4569.2	4594.8	4592.3	4582.0	4576.9	4584.6	4602.5	4592.3	4553.8
15°	4533.3	4505.1	4517.9	4543.5	4535.8	4528.2	4517.9	4520.5	4543.5	4525.6	4484.6
17.5°	4474.3	4443.5	4453.8	4476.9	4469.2	4461.5	4448.7	4451.2	4476.9	4451.2	4407.6
20°	4402.5	4369.2	4376.9	4405.1	4392.3	4379.4	4366.6	4366.6	4392.3	4364.1	4315.3
22.5°	4325.6	4292.3	4297.4	4317.9	4307.6	4284.6	4271.7	4279.4	4292.3	4256.4	4205.1
25°	4230.7	4187.1	4194.8	4215.3	4207.6	4176.9	4164.1	4169.2	4164.1	4135.9	4082.0
27.5°	4120.5	4074.3	4079.4	4092.3	4082.0	4053.8	4038.4	4041.0	4030.7	3994.8	3933.3
30°	3982.0	3958.9	3956.4	3964.1	3948.7	3920.5	3902.5	3897.4	3894.8	3843.5	3769.2
32.5°	3841.0	3820.5	3807.7	3817.9	3800.0	3771.8	3741.0	3741.0	3715.3	3666.6	3602.5
35°	3697.4	3664.1	3651.2	3658.9	3638.4	3602.5	3576.9	3564.1	3525.6	3464.1	3394.8
37.5°	3512.8	3489.7	3474.3	3482.0	3458.9	3433.3	3384.6	3371.8	3330.7	3246.1	3158.9
40°	3312.8	3294.8	3279.5	3287.1	3261.5	3223.0	3179.5	3158.9	3112.8	3017.9	2948.7
42.5°	3097.4	3089.7	3071.8	3100.0	3048.7	3010.2	2966.6	2933.3	2887.1	2784.6	2705.1
45°	2869.2	2887.1	2846.1	2853.8	2820.5	2787.1	2741.0	2692.3	2646.1	2548.7	2458.9
47.5°	2628.2	2641.0	2612.8	2617.9	2582.0	2551.3	2510.2	2448.7	2397.4	2312.8	2233.3
50°	2379.5	2374.3	2374.3	2369.2	2341.0	2302.5	2261.5	2205.1	2153.8	2076.9	2010.2
52.5°	2115.4	2125.6	2130.7	2143.6	2107.7	2084.6	2020.5	1971.8	1933.3	1853.8	1797.4
55°	1861.5	1897.4	1887.2	1892.3	1851.3	1833.3	1782.0	1743.6	1687.2	1641.0	1605.1
57.5°	1630.8	1638.4	1643.6	1651.3	1633.3	1597.4	1556.4	1525.6	1482.0	1443.6	1417.9
60°	1407.7	1407.7	1410.2	1423.1	1405.1	1374.3	1343.6	1320.5	1289.7	1266.7	1251.3
62.5°	1197.4	1215.4	1217.9	1207.7	1184.6	1169.2	1148.7	1135.9	1115.4	1107.7	1102.6
65°	1002.6	1002.6	1002.6	1007.7	994.9	984.6	971.8	969.2	976.9	966.7	971.8
67.5°	838.5	830.8	825.6	828.2	823.1	817.9	815.4	823.1	838.5	838.5	851.3
70°	697.4	682.0	671.8	671.8	671.8	674.4	682.0	697.4	723.1	733.3	751.3
72.5°	582.0	548.7	533.3	533.3	535.9	546.1	569.2	597.4	620.5	641.0	664.1
75°	471.8	438.5	415.4	412.8	417.9	433.3	466.7	492.3	530.8	559.0	587.2
77.5°	382.0	341.0	312.8	310.3	317.9	341.0	382.0	415.4	459.0	489.7	520.5
80°	305.1	259.0	235.9	220.5	233.3	261.5	307.7	348.7	389.7	430.8	469.2
82.5°	243.6	200.0	164.1	148.7	164.1	202.6	246.2	294.9	335.9	379.5	417.9
85°	192.3	146.2	105.1	89.7	107.7	148.7	197.4	246.2	292.3	335.9	374.4
87.5°	151.3	105.1	64.1	43.6	66.7	110.3	156.4	205.1	253.8	297.4	335.9
90°	117.9	74.4	35.9	5.1	38.5	79.5	125.6	171.8	220.5	264.1	302.6
92.5°	100.0	56.4	20.5	0.0	23.1	59.0	102.6	148.7	192.3	235.9	274.4
95°	84.6	46.2	15.4	0.0	15.4	46.2	84.6	125.6	169.2	212.8	251.3
97.5°	71.8	35.9	10.3	0.0	10.3	35.9	69.2	110.3	148.7	189.7	225.6
100°	61.5	30.8	7.7	0.0	7.7	28.2	59.0	94.9	133.3	171.8	205.1
102.5°	53.8	25.6	5.1	0.0	5.1	23.1	48.7	82.1	115.4	151.3	184.6
105°	46.2	20.5	5.1	0.0	2.6	17.9	41.0	71.8	102.6	135.9	166.7
107.5°	41.0	17.9	5.1	0.0	2.6	15.4	35.9	61.5	92.3	120.5	148.7
110°	35.9	15.4	5.1	0.0	2.6	10.3	30.8	53.8	79.5	107.7	135.9



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	30.8	12.8	2.6	0.0	0.0	7.7	25.6	46.2	69.2	97.4	120.5
115°	28.2	12.8	2.6	0.0	0.0	5.1	20.5	41.0	61.5	87.2	107.7
117.5°	25.6	10.3	2.6	0.0	2.6	5.1	17.9	35.9	53.8	74.4	97.4
120°	23.1	10.3	2.6	0.0	2.6	2.6	12.8	30.8	46.2	66.7	84.6
122.5°	20.5	10.3	2.6	0.0	2.6	2.6	10.3	25.6	41.0	59.0	74.4
125°	17.9	7.7	5.1	2.6	2.6	2.6	7.7	20.5	35.9	48.7	66.7
127.5°	17.9	7.7	5.1	2.6	2.6	2.6	5.1	17.9	28.2	43.6	59.0
130°	15.4	7.7	5.1	2.6	2.6	2.6	2.6	12.8	25.6	35.9	48.7
132.5°	12.8	7.7	5.1	2.6	2.6	2.6	2.6	7.7	17.9	30.8	41.0
135°	12.8	7.7	5.1	2.6	2.6	2.6	2.6	5.1	12.8	23.1	33.3
137.5°	10.3	5.1	5.1	2.6	2.6	2.6	2.6	2.6	10.3	17.9	25.6
140°	10.3	5.1	5.1	2.6	2.6	2.6	2.6	2.6	7.7	12.8	20.5
142.5°	7.7	5.1	5.1	2.6	2.6	2.6	2.6	2.6	5.1	10.3	15.4
145°	7.7	5.1	5.1	2.6	2.6	2.6	2.6	2.6	2.6	5.1	10.3
147.5°	7.7	7.7	5.1	2.6	2.6	2.6	2.6	2.6	2.6	5.1	7.7
150°	7.7	5.1	5.1	2.6	2.6	2.6	2.6	2.6	2.6	2.6	5.1
152.5°	7.7	5.1	5.1	2.6	2.6	2.6	2.6	2.6	2.6	2.6	5.1
155°	7.7	5.1	5.1	2.6	2.6	2.6	2.6	2.6	2.6	5.1	5.1
157.5°	7.7	5.1	5.1	2.6	2.6	2.6	2.6	2.6	2.6	2.6	5.1
160°	7.7	5.1	5.1	2.6	5.1	2.6	5.1	5.1	5.1	5.1	5.1
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4661.5	4661.5	4661.5	4661.5	4661.5	4661.5	4661.5	4661.5	4661.5	4661.5	4661.5
2.5°	4674.3	4625.6	4651.2	4643.5	4653.8	4674.3	4671.7	4666.6	4666.6	4658.9	4648.7
5°	4658.9	4612.8	4635.8	4623.0	4635.8	4653.8	4651.2	4643.5	4648.7	4635.8	4623.0
7.5°	4628.2	4587.1	4607.6	4597.4	4607.6	4625.6	4617.9	4615.3	4620.5	4600.0	4592.3
10°	4592.3	4546.1	4569.2	4556.4	4569.2	4582.0	4576.9	4566.6	4576.9	4556.4	4548.7
12.5°	4535.8	4497.4	4512.8	4507.6	4515.3	4528.2	4517.9	4510.2	4515.3	4497.4	4482.0
15°	4474.3	4435.8	4448.7	4441.0	4446.1	4461.5	4443.5	4441.0	4435.8	4417.9	4412.8
17.5°	4394.8	4358.9	4371.7	4358.9	4366.6	4361.5	4358.9	4346.1	4346.1	4325.6	4310.2
20°	4297.4	4266.6	4258.9	4248.7	4258.9	4248.7	4233.3	4223.0	4220.5	4200.0	4187.1
22.5°	4184.6	4148.7	4153.8	4125.6	4128.2	4112.8	4087.1	4076.9	4066.6	4043.5	4025.6
25°	4048.7	4012.8	3987.1	3969.2	3946.1	3943.5	3910.2	3884.6	3882.0	3853.8	3851.2
27.5°	3894.8	3853.8	3833.3	3789.7	3761.5	3738.4	3710.2	3684.6	3671.8	3641.0	3620.5
30°	3717.9	3671.8	3620.5	3589.7	3546.1	3528.2	3479.4	3448.7	3438.4	3405.1	3389.7
32.5°	3517.9	3469.2	3428.2	3369.2	3320.5	3294.8	3246.1	3215.3	3202.5	3166.6	3146.1
35°	3300.0	3246.1	3197.4	3141.0	3102.5	3058.9	3000.0	2969.2	2941.0	2928.2	2912.8
37.5°	3071.8	3012.8	2956.4	2900.0	2866.6	2815.4	2764.1	2743.6	2710.2	2697.4	2682.0
40°	2835.9	2776.9	2723.0	2669.2	2630.7	2584.6	2538.4	2530.7	2494.8	2482.0	2471.8
42.5°	2602.5	2541.0	2479.5	2441.0	2412.8	2366.6	2335.9	2328.2	2297.4	2289.7	2289.7
45°	2392.3	2315.4	2264.1	2230.7	2207.7	2169.2	2143.6	2138.4	2112.8	2107.7	2107.7
47.5°	2166.6	2094.8	2056.4	2035.9	2015.4	1987.2	1971.8	1971.8	1946.1	1941.0	1938.4
50°	1956.4	1889.7	1861.5	1841.0	1838.4	1817.9	1805.1	1800.0	1800.0	1782.0	1784.6
52.5°	1756.4	1723.1	1700.0	1687.2	1671.8	1659.0	1648.7	1648.7	1641.0	1628.2	1633.3
55°	1571.8	1533.3	1535.9	1525.6	1517.9	1510.2	1512.8	1497.4	1494.9	1484.6	1492.3
57.5°	1387.2	1387.2	1382.0	1374.3	1361.5	1366.7	1366.7	1366.7	1353.8	1346.1	1353.8
60°	1230.8	1238.4	1225.6	1233.3	1228.2	1230.8	1225.6	1225.6	1217.9	1215.4	1217.9
62.5°	1092.3	1105.1	1100.0	1110.2	1105.1	1107.7	1112.8	1102.6	1097.4	1092.3	1097.4
65°	969.2	984.6	982.0	989.7	992.3	994.9	997.4	992.3	987.2	982.0	979.5
67.5°	861.5	876.9	887.2	889.7	892.3	900.0	897.4	892.3	887.2	879.5	876.9
70°	764.1	784.6	797.4	802.6	812.8	807.7	807.7	805.1	800.0	792.3	789.7
72.5°	682.0	705.1	717.9	723.1	733.3	733.3	730.8	728.2	723.1	715.4	712.8
75°	610.2	630.8	648.7	659.0	666.7	666.7	664.1	661.5	656.4	651.3	648.7
77.5°	553.8	571.8	587.2	600.0	605.1	607.7	605.1	600.0	600.0	597.4	594.9
80°	497.4	517.9	533.3	546.1	553.8	553.8	551.3	553.8	548.7	546.1	543.6
82.5°	448.7	471.8	489.7	502.6	507.7	510.3	507.7	510.3	505.1	505.1	505.1
85°	405.1	428.2	448.7	459.0	466.7	469.2	469.2	469.2	466.7	466.7	466.7
87.5°	369.2	392.3	412.8	423.1	430.8	433.3	433.3	435.9	430.8	430.8	430.8
90°	335.9	359.0	379.5	389.7	397.4	402.6	402.6	405.1	402.6	400.0	400.0
92.5°	305.1	330.8	351.3	361.5	369.2	376.9	376.9	379.5	374.4	374.4	374.4
95°	279.5	305.1	323.1	335.9	343.6	348.7	351.3	351.3	348.7	348.7	348.7
97.5°	256.4	279.5	297.4	310.3	317.9	320.5	323.1	325.6	323.1	323.1	323.1
100°	233.3	256.4	274.4	284.6	294.9	297.4	300.0	302.6	302.6	300.0	300.0
102.5°	212.8	235.9	251.3	264.1	271.8	276.9	279.5	279.5	279.5	279.5	279.5
105°	192.3	215.4	230.8	243.6	251.3	256.4	259.0	261.5	261.5	259.0	259.0
107.5°	174.4	194.9	212.8	223.1	233.3	238.5	241.0	241.0	243.6	241.0	241.0
110°	156.4	179.5	194.9	205.1	215.4	220.5	223.1	225.6	225.6	225.6	225.6



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	143.6	161.5	176.9	187.2	197.4	202.6	205.1	207.7	210.3	207.7	207.7
115°	128.2	146.2	161.5	171.8	179.5	184.6	189.7	192.3	192.3	194.9	192.3
117.5°	115.4	130.8	146.2	156.4	164.1	171.8	174.4	176.9	179.5	176.9	176.9
120°	102.6	117.9	130.8	141.0	148.7	156.4	159.0	161.5	164.1	161.5	161.5
122.5°	92.3	105.1	117.9	128.2	135.9	141.0	146.2	146.2	148.7	148.7	148.7
125°	82.1	94.9	105.1	115.4	123.1	128.2	130.8	133.3	133.3	135.9	135.9
127.5°	71.8	82.1	94.9	102.6	110.3	115.4	117.9	120.5	120.5	123.1	123.1
130°	61.5	71.8	82.1	89.7	97.4	102.6	105.1	107.7	110.3	110.3	110.3
132.5°	53.8	64.1	71.8	79.5	84.6	89.7	94.9	97.4	97.4	97.4	97.4
135°	43.6	53.8	61.5	69.2	74.4	79.5	82.1	87.2	87.2	87.2	87.2
137.5°	35.9	46.2	53.8	59.0	64.1	69.2	71.8	74.4	76.9	76.9	76.9
140°	28.2	35.9	43.6	51.3	56.4	59.0	64.1	64.1	66.7	66.7	66.7
142.5°	20.5	28.2	33.3	41.0	46.2	51.3	53.8	56.4	56.4	56.4	56.4
145°	15.4	20.5	25.6	30.8	38.5	41.0	43.6	46.2	48.7	48.7	48.7
147.5°	10.3	15.4	17.9	23.1	28.2	33.3	35.9	38.5	41.0	41.0	41.0
150°	7.7	10.3	15.4	17.9	20.5	25.6	30.8	30.8	33.3	33.3	30.8
152.5°	5.1	7.7	10.3	12.8	15.4	17.9	23.1	23.1	25.6	25.6	25.6
155°	5.1	5.1	5.1	7.7	10.3	12.8	15.4	17.9	17.9	17.9	17.9
157.5°	5.1	5.1	5.1	5.1	5.1	7.7	10.3	12.8	12.8	12.8	12.8
160°	5.1	5.1	2.6	2.6	5.1	5.1	5.1	5.1	7.7	7.7	7.7
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-LD5-136SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4661.5	4661.5	4661.5	4661.5	4661.5	4661.5	4661.5	4661.5	4661.5	4661.5	4661.5
2.5°	4656.4	4661.5	4661.5	4656.4	4653.8	4664.1	4651.2	4602.5	4617.9	4623.0	4638.4
5°	4633.3	4638.4	4638.4	4638.4	4633.3	4643.5	4630.7	4582.0	4600.0	4607.6	4617.9
7.5°	4600.0	4602.5	4607.6	4605.1	4600.0	4615.3	4602.5	4553.8	4566.6	4579.4	4592.3
10°	4556.4	4556.4	4558.9	4564.1	4558.9	4571.7	4558.9	4515.3	4528.2	4535.8	4551.2
12.5°	4497.4	4502.5	4505.1	4502.5	4500.0	4510.2	4505.1	4464.1	4469.2	4484.6	4500.0
15°	4417.9	4417.9	4430.7	4425.6	4425.6	4435.8	4441.0	4394.8	4402.5	4425.6	4441.0
17.5°	4320.5	4323.0	4333.3	4338.4	4335.9	4353.8	4356.4	4320.5	4317.9	4346.1	4361.5
20°	4194.8	4200.0	4212.8	4223.0	4223.0	4243.5	4251.2	4228.2	4230.7	4261.5	4266.6
22.5°	4041.0	4041.0	4064.1	4079.4	4092.3	4105.1	4128.2	4107.6	4107.6	4148.7	4171.7
25°	3851.2	3869.2	3876.9	3907.6	3925.6	3961.5	3982.0	3984.6	3987.1	4025.6	4041.0
27.5°	3641.0	3646.1	3669.2	3705.1	3725.6	3758.9	3797.4	3805.1	3817.9	3869.2	3892.3
30°	3402.5	3417.9	3428.2	3479.4	3507.7	3551.2	3600.0	3617.9	3628.2	3697.4	3725.6
32.5°	3158.9	3164.1	3207.7	3235.9	3269.2	3315.3	3371.8	3405.1	3425.6	3497.4	3538.4
35°	2915.4	2925.6	2961.5	2997.4	3030.7	3076.9	3135.9	3182.0	3217.9	3282.0	3335.9
37.5°	2692.3	2717.9	2725.6	2761.5	2787.1	2833.3	2874.3	2941.0	2976.9	3043.6	3112.8
40°	2492.3	2500.0	2505.1	2541.0	2558.9	2602.5	2661.5	2705.1	2753.8	2802.5	2884.6
42.5°	2294.8	2300.0	2307.7	2328.2	2348.7	2379.5	2423.1	2466.6	2517.9	2589.7	2643.6
45°	2112.8	2117.9	2123.1	2135.9	2153.8	2182.0	2210.2	2241.0	2292.3	2353.8	2410.2
47.5°	1943.6	1953.8	1953.8	1956.4	1969.2	1992.3	2012.8	2051.3	2079.5	2112.8	2176.9
50°	1782.0	1789.7	1792.3	1792.3	1800.0	1815.4	1820.5	1846.1	1871.8	1902.5	1948.7
52.5°	1630.8	1630.8	1628.2	1638.4	1638.4	1648.7	1651.3	1666.6	1684.6	1717.9	1738.4
55°	1487.2	1487.2	1494.9	1489.7	1489.7	1494.9	1492.3	1494.9	1510.2	1530.8	1548.7
57.5°	1348.7	1346.1	1353.8	1348.7	1346.1	1351.3	1356.4	1346.1	1348.7	1369.2	1369.2
60°	1210.2	1212.8	1220.5	1215.4	1215.4	1215.4	1210.2	1205.1	1200.0	1212.8	1217.9
62.5°	1100.0	1092.3	1100.0	1092.3	1097.4	1094.9	1089.7	1079.5	1082.0	1076.9	1071.8
65°	984.6	984.6	987.2	979.5	984.6	984.6	976.9	974.3	959.0	953.8	941.0
67.5°	884.6	884.6	887.2	882.0	882.0	884.6	876.9	869.2	853.8	846.1	828.2
70°	797.4	797.4	797.4	794.9	794.9	794.9	789.7	779.5	764.1	751.3	728.2
72.5°	717.9	720.5	717.9	717.9	725.6	717.9	710.2	700.0	687.2	661.5	641.0
75°	653.8	656.4	653.8	653.8	653.8	651.3	648.7	633.3	617.9	597.4	566.7
77.5°	597.4	597.4	600.0	597.4	597.4	594.9	587.2	574.4	556.4	538.5	502.6
80°	543.6	546.1	548.7	551.3	546.1	543.6	535.9	525.6	502.6	482.0	446.1
82.5°	505.1	502.6	505.1	507.7	502.6	500.0	492.3	479.5	461.5	433.3	397.4
85°	466.7	464.1	464.1	466.7	464.1	459.0	451.3	438.5	420.5	392.3	356.4
87.5°	428.2	430.8	433.3	430.8	428.2	423.1	415.4	402.6	382.0	359.0	320.5
90°	400.0	400.0	400.0	400.0	397.4	392.3	384.6	369.2	351.3	323.1	289.7
92.5°	374.4	374.4	374.4	374.4	371.8	364.1	356.4	343.6	323.1	294.9	264.1
95°	348.7	351.3	348.7	348.7	343.6	341.0	328.2	315.4	297.4	269.2	235.9
97.5°	320.5	323.1	320.5	320.5	317.9	312.8	305.1	289.7	271.8	246.2	215.4
100°	300.0	300.0	297.4	297.4	294.9	289.7	279.5	266.7	248.7	223.1	192.3
102.5°	276.9	279.5	276.9	276.9	271.8	266.7	259.0	246.2	228.2	202.6	174.4
105°	259.0	259.0	256.4	256.4	251.3	246.2	238.5	223.1	207.7	184.6	156.4
107.5°	241.0	241.0	238.5	238.5	233.3	228.2	217.9	205.1	189.7	166.7	141.0
110°	223.1	223.1	223.1	220.5	215.4	207.7	200.0	187.2	171.8	151.3	125.6



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	210.3	207.7	205.1	202.6	197.4	192.3	182.0	169.2	153.8	135.9	112.8
115°	192.3	192.3	189.7	187.2	182.0	174.4	166.7	156.4	141.0	120.5	100.0
117.5°	176.9	176.9	174.4	171.8	166.7	159.0	151.3	141.0	125.6	107.7	89.7
120°	161.5	161.5	159.0	156.4	151.3	143.6	138.5	125.6	112.8	94.9	79.5
122.5°	148.7	146.2	146.2	141.0	138.5	130.8	123.1	112.8	100.0	84.6	69.2
125°	133.3	133.3	130.8	128.2	125.6	117.9	110.3	100.0	87.2	74.4	61.5
127.5°	120.5	120.5	117.9	115.4	112.8	105.1	97.4	89.7	76.9	64.1	51.3
130°	107.7	107.7	105.1	102.6	100.0	92.3	87.2	76.9	66.7	56.4	43.6
132.5°	97.4	97.4	94.9	92.3	87.2	82.1	76.9	66.7	59.0	48.7	38.5
135°	87.2	84.6	84.6	82.1	76.9	71.8	66.7	59.0	48.7	41.0	30.8
137.5°	76.9	74.4	71.8	69.2	66.7	61.5	56.4	51.3	43.6	33.3	25.6
140°	66.7	64.1	64.1	61.5	56.4	53.8	48.7	41.0	35.9	28.2	20.5
142.5°	56.4	56.4	53.8	51.3	48.7	46.2	41.0	35.9	28.2	23.1	15.4
145°	48.7	46.2	46.2	43.6	41.0	35.9	33.3	28.2	23.1	17.9	12.8
147.5°	38.5	38.5	38.5	35.9	33.3	30.8	28.2	23.1	17.9	12.8	7.7
150°	30.8	30.8	30.8	28.2	25.6	23.1	20.5	17.9	12.8	7.7	5.1
152.5°	25.6	25.6	23.1	23.1	20.5	17.9	15.4	12.8	7.7	5.1	5.1
155°	17.9	17.9	17.9	15.4	15.4	12.8	10.3	7.7	5.1	5.1	5.1
157.5°	12.8	12.8	12.8	10.3	10.3	7.7	7.7	5.1	5.1	5.1	5.1
160°	7.7	7.7	7.7	7.7	5.1	5.1	5.1	5.1	5.1	5.1	5.1
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	4661.5	4661.5	4661.5	4661.5	4661.5	4661.5	4661.5
2.5°	4630.7	4628.2	4648.7	4648.7	4625.6	4661.5	4699.9
5°	4615.3	4612.8	4633.3	4633.3	4612.8	4648.7	4689.7
7.5°	4584.6	4587.1	4607.6	4612.8	4587.1	4620.5	4664.1
10°	4551.2	4548.7	4571.7	4576.9	4556.4	4587.1	4628.2
12.5°	4497.4	4497.4	4520.5	4528.2	4507.6	4543.5	4582.0
15°	4441.0	4441.0	4456.4	4469.2	4451.2	4484.6	4523.0
17.5°	4369.2	4366.6	4382.0	4397.4	4379.4	4415.3	4456.4
20°	4276.9	4276.9	4294.8	4312.8	4300.0	4333.3	4379.4
22.5°	4179.4	4169.2	4200.0	4212.8	4205.1	4238.4	4284.6
25°	4056.4	4053.8	4084.6	4102.5	4092.3	4128.2	4169.2
27.5°	3923.0	3920.5	3951.2	3974.3	3969.2	4002.5	4048.7
30°	3761.5	3774.3	3802.5	3841.0	3828.2	3864.1	3912.8
32.5°	3592.3	3605.1	3638.4	3679.4	3682.0	3710.2	3758.9
35°	3389.7	3423.0	3446.1	3500.0	3510.2	3538.4	3589.7
37.5°	3176.9	3215.3	3264.1	3305.1	3325.6	3348.7	3407.7
40°	2938.4	2994.8	3048.7	3097.4	3123.0	3146.1	3202.5
42.5°	2723.0	2766.6	2817.9	2866.6	2912.8	2933.3	2992.3
45°	2479.5	2530.7	2576.9	2635.9	2682.0	2705.1	2764.1
47.5°	2241.0	2292.3	2353.8	2394.8	2443.6	2466.6	2523.0
50°	2012.8	2059.0	2110.2	2159.0	2200.0	2220.5	2269.2
52.5°	1787.2	1835.9	1884.6	1915.4	1959.0	1974.3	2015.4
55°	1587.2	1620.5	1664.1	1682.0	1725.6	1735.9	1764.1
57.5°	1394.9	1417.9	1433.3	1464.1	1494.9	1517.9	1551.3
60°	1220.5	1230.8	1241.0	1259.0	1284.6	1292.3	1305.1
62.5°	1064.1	1061.5	1082.0	1087.2	1089.7	1115.4	1102.6
65°	925.6	928.2	910.2	902.6	912.8	920.5	915.4
67.5°	810.2	794.9	779.5	761.5	746.1	753.8	746.1
70°	697.4	684.6	659.0	633.3	623.1	607.7	600.0
72.5°	607.7	576.9	551.3	517.9	500.0	482.0	469.2
75°	538.5	494.9	459.0	423.1	397.4	371.8	366.7
77.5°	466.7	425.6	384.6	346.2	307.7	279.5	269.2
80°	410.3	371.8	323.1	276.9	235.9	200.0	187.2
82.5°	359.0	317.9	269.2	220.5	174.4	135.9	120.5
85°	315.4	271.8	223.1	174.4	128.2	87.2	66.7
87.5°	282.0	233.3	184.6	138.5	89.7	48.7	25.6
90°	251.3	205.1	159.0	110.3	64.1	25.6	0.0
92.5°	223.1	179.5	133.3	89.7	48.7	15.4	2.6
95°	197.4	159.0	112.8	71.8	35.9	10.3	2.6
97.5°	176.9	138.5	97.4	59.0	28.2	7.7	2.6
100°	159.0	120.5	84.6	48.7	23.1	5.1	2.6
102.5°	141.0	107.7	71.8	41.0	17.9	2.6	2.6
105°	125.6	94.9	61.5	35.9	15.4	2.6	2.6
107.5°	112.8	84.6	53.8	30.8	10.3	2.6	2.6
110°	100.0	71.8	46.2	25.6	7.7	2.6	2.6



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-136SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	89.7	64.1	41.0	20.5	5.1	2.6	2.6
115°	79.5	56.4	35.9	17.9	5.1	2.6	2.6
117.5°	69.2	48.7	30.8	12.8	2.6	2.6	2.6
120°	61.5	43.6	25.6	10.3	2.6	2.6	2.6
122.5°	53.8	35.9	20.5	7.7	2.6	2.6	2.6
125°	46.2	30.8	17.9	5.1	2.6	2.6	2.6
127.5°	38.5	25.6	12.8	5.1	2.6	2.6	2.6
130°	33.3	20.5	10.3	2.6	2.6	2.6	2.6
132.5°	28.2	15.4	7.7	2.6	2.6	2.6	2.6
135°	23.1	12.8	5.1	2.6	2.6	2.6	2.6
137.5°	17.9	10.3	5.1	2.6	2.6	2.6	2.6
140°	12.8	7.7	2.6	2.6	2.6	2.6	2.6
142.5°	10.3	5.1	2.6	2.6	2.6	2.6	2.6
145°	7.7	5.1	2.6	2.6	2.6	2.6	2.6
147.5°	5.1	5.1	5.1	5.1	2.6	2.6	2.6
150°	5.1	5.1	2.6	2.6	5.1	2.6	2.6
152.5°	5.1	2.6	2.6	2.6	5.1	2.6	2.6
155°	5.1	5.1	5.1	5.1	5.1	5.1	2.6
157.5°	5.1	5.1	5.1	5.1	5.1	5.1	5.1
160°	5.1	5.1	5.1	5.1	5.1	5.1	5.1
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)