

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-LD5-54SL-LW-UNV-L930-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 (P33520)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNLED-LD5-54SL-LW-UNV-L930-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
WIDE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

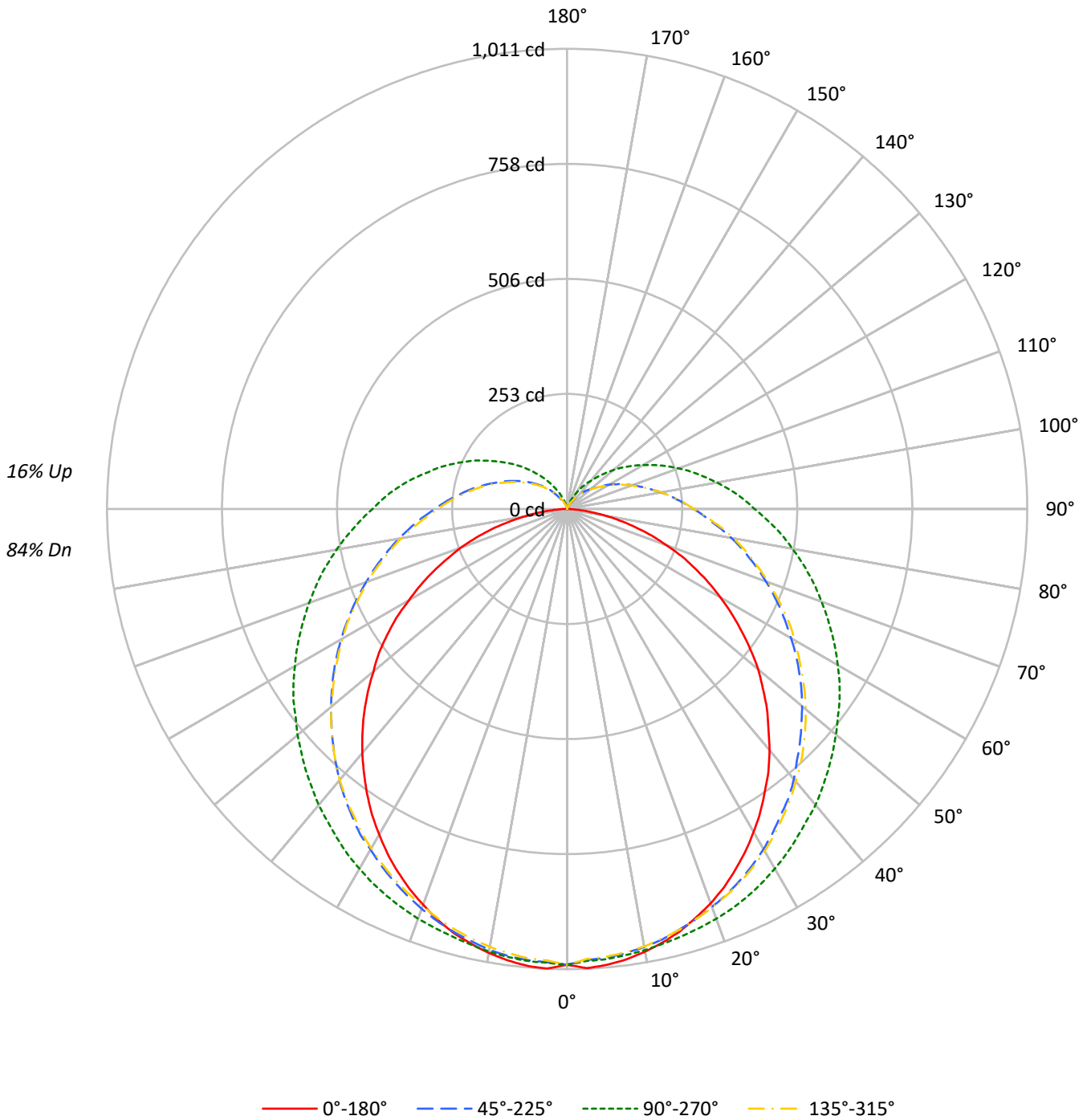
Lumens per Lamp: N/A
Luminaire Lumens: 4350.0 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 42
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-LD5-54SL-LW-UNV-L930-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-54SL-LW-UNV-L930-CD1-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	50	30	10	50	30	10	50	30	10	0																
RCR	0	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	84	84	84	84	84	84	84	84	84	84	84	84																
	1	102	96	91	86	98	92	87	83	85	81	77	78	75	72	72	70	67	64	64	64	64	64	64	64	64	64	64	64	64																
	2	92	82	74	68	87	79	72	66	73	67	62	67	62	58	62	58	54	51	51	51	51	51	51	51	51	51	51	51	51																
	3	83	71	62	55	79	69	60	54	63	56	51	58	52	48	54	49	45	42	42	42	42	42	42	42	42	42	42	42	42																
	4	76	63	53	46	72	60	52	45	56	48	42	51	45	40	47	42	38	35	35	35	35	35	35	35	35	35	35	35	35																
	5	69	56	46	39	66	54	45	38	50	42	36	46	39	34	42	37	33	30	30	30	30	30	30	30	30	30	30	30	30																
	6	64	50	41	34	61	48	39	33	45	37	31	41	35	30	38	33	28	26	26	26	26	26	26	26	26	26	26	26	26																
	7	59	45	36	30	56	43	35	29	40	33	28	38	31	26	35	29	25	23	23	23	23	23	23	23	23	23	23	23	23																
	8	55	41	32	26	52	40	31	26	37	30	24	34	28	23	32	26	22	20	20	20	20	20	20	20	20	20	20	20	20																
	9	51	37	29	23	49	36	28	23	34	27	22	32	25	21	30	24	20	18	18	18	18	18	18	18	18	18	18	18	18																
	10	48	34	26	21	46	33	26	21	31	24	20	29	23	19	27	22	18	16	16	16	16	16	16	16	16	16	16	16	16																

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4045	4045	4045	4045
5°	4073	3899	4081	3915
10°	4040	3788	4054	3800
15°	3999	3693	4017	3697
20°	3942	3624	3956	3624
25°	3871	3562	3894	3558
30°	3790	3499	3819	3499
35°	3695	3440	3736	3445
40°	3602	3406	3645	3406
45°	3494	3370	3547	3374
50°	3382	3348	3428	3358
55°	3224	3352	3326	3366
60°	3058	3362	3157	3382
65°	2872	3396	2999	3429
70°	2608	3458	2811	3507
75°	2306	3571	2524	3640
80°	1828	3738	2078	3825
85°	1164	4007	1455	4118



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-54SL-LW-UNV-L930-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.8	2.2
10°-20°	272.6	6.3
20°-30°	417.9	9.6
30°-40°	515.6	11.9
40°-50°	559.4	12.9
50°-60°	551.4	12.7
60°-70°	498.5	11.5
70°-80°	415.3	9.5
80°-90°	321.7	7.4
90°-100°	243.9	5.6
100°-110°	180.5	4.2
110°-120°	125.6	2.9
120°-130°	80.1	1.8
130°-140°	45.0	1.0
140°-150°	20.5	0.5
150°-160°	6.4	0.1
160°-170°	0.8	0.0
170°-180°	0.0	0.0
0°-30°	785.4	18.1
0°-40°	1301.0	29.9
0°-60°	2411.7	55.4
0°-90°	3647.2	83.8
90°-120°	550.0	12.6
90°-150°	695.7	16.0
90°-180°	703.0	16.2
0°-180°	4350.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1001	1001	1001	1001	1001	
5°	1006	993	1008	997	1006	95
15°	960	972	964	973	960	271
25°	874	939	880	938	874	403
35°	757	881	766	882	757	474
45°	621	811	630	812	621	478
55°	468	731	483	734	468	419
65°	310	641	324	647	310	308
75°	156	549	171	560	156	165
85°	30	457	37	470	30	36
90°	1	412	2	428	1	2
95°	1	374	1	392	1	1
105°	1	297	1	315	1	1
115°	1	226	1	246	1	1
125°	1	163	1	181	1	1
135°	1	106	1	125	1	1
145°	1	61	1	75	1	1
155°	1	25	1	35	1	1
165°	1	4	1	6	1	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-54SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1001.2	1001.2	1001.2	1001.2	1001.2	1001.2	1001.2	1001.2	1001.2	1001.2	1001.2
2.5°	1009.7	1009.7	1008.6	1006.5	1007.6	1010.7	1008.6	1003.4	1000.2	991.7	993.8
5°	1005.5	1005.5	1004.4	1002.3	1003.4	1007.6	1005.5	1001.2	997.0	989.6	992.8
7.5°	998.1	998.1	997.0	994.9	997.0	1001.2	999.1	994.9	991.7	984.3	987.5
10°	987.5	988.6	987.5	984.3	988.6	992.8	991.7	986.5	983.3	977.0	980.1
12.5°	974.8	975.9	974.8	973.8	975.9	982.2	980.1	975.9	973.8	968.5	971.7
15°	960.1	961.1	959.0	959.0	961.1	967.4	967.4	963.2	961.1	955.8	962.2
17.5°	941.0	942.1	941.0	941.0	943.2	949.5	950.5	948.4	946.3	944.2	950.5
20°	922.0	921.0	921.0	919.9	924.1	933.6	932.6	932.6	930.5	930.5	937.9
22.5°	899.9	899.9	898.8	898.8	904.1	912.5	912.5	914.6	912.5	916.7	923.1
25°	874.5	875.6	874.5	876.6	880.8	890.3	891.4	894.6	895.6	899.9	907.2
27.5°	848.1	849.2	848.1	850.2	857.6	865.0	870.3	874.5	875.6	881.9	891.4
30°	819.6	819.6	820.6	822.8	831.2	842.8	847.0	852.3	852.3	862.9	872.4
32.5°	790.0	790.0	790.0	794.2	803.7	817.5	822.8	829.1	831.2	841.8	852.3
35°	757.3	758.3	758.3	761.5	774.2	787.9	795.3	802.7	806.9	819.6	830.1
37.5°	726.6	728.8	725.6	729.8	747.8	759.4	767.8	775.2	782.6	799.5	808.0
40°	691.8	693.9	692.8	701.3	716.1	730.9	740.4	747.8	758.3	775.2	784.7
42.5°	654.8	656.9	659.0	668.6	684.4	699.2	710.8	720.3	733.0	747.8	763.6
45°	621.0	621.0	624.2	635.8	652.7	668.6	682.3	692.8	707.6	723.5	739.3
47.5°	583.0	584.1	588.3	602.0	620.0	639.0	651.7	665.4	681.2	698.1	716.1
50°	548.1	548.1	554.5	569.3	586.2	607.3	621.0	636.9	653.8	673.8	691.8
52.5°	508.0	510.1	519.6	533.4	555.5	574.6	590.4	607.3	627.4	648.5	668.6
55°	467.9	472.1	479.5	498.5	521.7	539.7	558.7	579.8	598.8	622.1	645.3
57.5°	428.8	432.0	443.6	462.6	486.9	509.1	529.1	549.2	572.4	595.7	620.0
60°	388.7	392.9	406.6	425.6	452.0	475.3	498.5	519.6	543.9	568.2	593.6
62.5°	350.6	353.8	369.7	391.8	418.2	443.6	466.8	492.2	518.6	541.8	567.2
65°	310.5	315.8	333.7	353.8	384.4	409.8	436.2	463.7	491.1	516.5	540.8
67.5°	273.5	276.7	295.7	319.0	349.6	378.1	405.6	435.1	463.7	490.1	514.4
70°	230.2	240.8	259.8	284.1	316.8	346.4	376.0	406.6	437.3	464.7	487.9
72.5°	194.3	202.8	223.9	250.3	282.0	316.8	347.5	380.2	410.8	439.4	463.7
75°	156.3	164.8	189.1	218.6	251.4	288.3	320.0	353.8	385.5	414.0	439.4
77.5°	119.3	129.9	156.3	186.9	222.9	260.9	293.6	327.4	360.2	390.8	416.1
80°	85.5	97.2	125.7	160.5	195.4	233.4	269.3	303.1	335.9	366.5	392.9
82.5°	54.9	67.6	98.2	133.1	170.0	208.1	245.0	278.8	311.6	342.2	369.7
85°	29.6	43.3	75.0	109.8	146.8	184.8	221.8	257.7	289.4	317.9	347.5
87.5°	8.4	25.3	56.0	90.8	128.9	163.7	199.6	235.5	267.2	297.8	324.2
90°	1.1	14.8	42.2	75.0	112.0	145.8	181.7	215.5	247.1	277.8	304.2
92.5°	1.1	9.5	32.7	62.3	96.1	131.0	166.9	199.6	229.2	259.8	286.2
95°	1.1	7.4	26.4	52.8	84.5	117.2	151.0	182.7	213.3	241.9	268.3
97.5°	1.1	5.3	21.1	45.4	73.9	104.6	137.3	169.0	198.6	226.0	250.3
100°	1.1	4.2	16.9	39.1	64.4	94.0	123.6	154.2	182.7	209.1	234.5
102.5°	1.1	3.2	14.8	32.7	57.0	83.4	112.0	140.5	167.9	193.3	218.6
105°	1.1	3.2	12.7	28.5	50.7	75.0	101.4	128.9	154.2	178.5	201.7
107.5°	1.1	2.1	10.6	24.3	44.4	67.6	91.9	118.3	141.5	164.8	186.9
110°	1.1	2.1	8.4	22.2	39.1	60.2	83.4	107.7	129.9	152.1	173.2



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-54SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.1	2.1	7.4	19.0	33.8	53.9	75.0	97.2	118.3	140.5	159.5
115°	1.1	2.1	6.3	16.9	31.7	46.5	67.6	87.7	108.8	128.9	146.8
117.5°	1.1	2.1	5.3	13.7	27.5	42.2	59.1	79.2	98.2	117.2	134.1
120°	1.1	2.1	4.2	12.7	24.3	38.0	52.8	70.8	88.7	106.7	124.6
122.5°	1.1	1.1	4.2	10.6	21.1	33.8	48.6	62.3	79.2	96.1	112.0
125°	1.1	1.1	4.2	9.5	18.0	30.6	43.3	56.0	70.8	85.5	99.3
127.5°	1.1	1.1	3.2	7.4	15.8	26.4	38.0	51.8	62.3	76.0	89.8
130°	1.1	1.1	3.2	6.3	13.7	22.2	33.8	45.4	58.1	67.6	79.2
132.5°	1.1	1.1	3.2	5.3	10.6	18.0	28.5	39.1	50.7	61.3	70.8
135°	1.1	1.1	2.1	4.2	8.4	14.8	23.2	32.7	44.4	54.9	64.4
137.5°	1.1	1.1	2.1	4.2	6.3	12.7	18.0	26.4	37.0	46.5	56.0
140°	1.1	1.1	2.1	3.2	5.3	9.5	14.8	21.1	29.6	38.0	48.6
142.5°	1.1	1.1	1.1	3.2	4.2	7.4	11.6	16.9	23.2	30.6	39.1
145°	1.1	1.1	1.1	3.2	4.2	5.3	9.5	13.7	18.0	23.2	30.6
147.5°	1.1	1.1	1.1	2.1	3.2	4.2	7.4	10.6	13.7	18.0	22.2
150°	1.1	1.1	1.1	2.1	3.2	4.2	5.3	7.4	10.6	14.8	18.0
152.5°	1.1	1.1	1.1	2.1	2.1	3.2	4.2	5.3	7.4	10.6	12.7
155°	1.1	1.1	1.1	1.1	2.1	3.2	4.2	4.2	5.3	7.4	9.5
157.5°	1.1	1.1	1.1	1.1	2.1	2.1	3.2	3.2	4.2	4.2	6.3
160°	1.1	1.1	1.1	1.1	1.1	2.1	2.1	3.2	3.2	3.2	3.2
162.5°	1.1	1.1	1.1	1.1	1.1	1.1	2.1	2.1	2.1	3.2	3.2
165°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.1	2.1	2.1
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-LD5-54SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1001.2	1001.2	1001.2	1001.2	1001.2	1001.2	1001.2	1001.2	1001.2	1001.2	1001.2
2.5°	993.8	994.9	998.1	998.1	996.0	996.0	994.9	993.8	994.9	997.0	997.0
5°	991.7	992.8	996.0	997.0	994.9	993.8	993.8	992.8	993.8	996.0	996.0
7.5°	987.5	988.6	991.7	992.8	990.7	990.7	989.6	988.6	990.7	991.7	991.7
10°	981.2	982.2	986.5	987.5	986.5	985.4	985.4	984.3	985.4	987.5	987.5
12.5°	972.7	974.8	980.1	980.1	980.1	979.1	979.1	978.0	979.1	981.2	980.1
15°	963.2	967.4	971.7	973.8	973.8	973.8	972.7	971.7	973.8	974.8	973.8
17.5°	952.7	957.9	964.3	966.4	966.4	967.4	966.4	965.3	967.4	967.4	966.4
20°	942.1	947.4	953.7	955.8	957.9	959.0	959.0	957.9	959.0	960.1	959.0
22.5°	928.4	934.7	942.1	945.3	947.4	949.5	949.5	949.5	950.5	951.6	949.5
25°	913.6	921.0	929.4	932.6	936.8	937.9	938.9	938.9	940.0	941.0	937.9
27.5°	897.7	906.2	914.6	919.9	923.1	925.2	925.2	926.3	927.3	928.4	925.2
30°	878.7	891.4	898.8	903.0	907.2	910.4	911.5	912.5	913.6	914.6	911.5
32.5°	861.8	872.4	881.9	887.2	892.5	896.7	897.7	897.7	899.9	899.9	896.7
35°	841.8	854.4	863.9	869.2	875.6	878.7	880.8	880.8	883.0	883.0	879.8
37.5°	821.7	834.4	844.9	851.3	858.7	862.9	863.9	863.9	866.1	866.1	861.8
40°	800.6	814.3	825.9	833.3	839.6	844.9	846.0	849.2	849.2	848.1	843.9
42.5°	779.4	792.1	804.8	813.2	821.7	827.0	829.1	830.1	830.1	829.1	825.9
45°	756.2	771.0	782.6	793.2	801.6	806.9	810.1	811.1	811.1	809.0	805.9
47.5°	734.0	748.8	760.4	772.1	780.5	786.8	790.0	791.1	790.0	789.0	785.8
50°	710.8	727.7	739.3	750.9	759.4	764.7	769.9	771.0	769.9	768.9	762.5
52.5°	686.5	704.5	717.1	728.8	738.3	744.6	748.8	749.9	749.9	747.8	743.5
55°	662.2	678.1	693.9	706.6	717.1	723.5	728.8	730.9	728.8	726.6	721.4
57.5°	640.0	654.8	670.7	684.4	695.0	703.4	707.6	709.7	707.6	704.5	699.2
60°	613.6	629.5	647.4	660.1	671.7	680.2	682.3	686.5	684.4	681.2	675.9
62.5°	588.3	607.3	623.1	639.0	648.5	658.0	662.2	664.3	662.2	659.0	653.8
65°	561.9	583.0	598.8	614.7	625.2	634.8	640.0	641.1	639.0	635.8	630.5
67.5°	537.6	557.7	574.6	591.5	601.0	610.5	615.7	617.9	615.7	611.5	606.2
70°	513.3	533.4	553.4	566.1	577.7	588.3	591.5	594.6	592.5	588.3	581.9
72.5°	489.0	510.1	530.2	542.9	555.5	565.0	569.3	572.4	570.3	566.1	558.7
75°	463.7	485.8	505.9	519.6	532.3	541.8	546.0	549.2	547.1	542.9	534.4
77.5°	440.4	462.6	481.6	496.4	509.1	517.5	524.9	526.0	523.9	519.6	511.2
80°	416.1	438.3	458.4	473.2	485.8	494.3	499.6	502.7	500.6	496.4	487.9
82.5°	395.0	415.1	435.1	449.9	462.6	473.2	477.4	480.6	479.5	473.2	466.8
85°	371.8	395.0	410.8	426.7	439.4	449.9	453.1	457.3	456.3	451.0	442.5
87.5°	348.5	371.8	390.8	406.6	418.2	426.7	432.0	434.1	433.0	427.7	418.2
90°	329.5	350.6	369.7	386.6	396.1	405.6	410.8	411.9	411.9	405.6	398.2
92.5°	311.6	331.6	350.6	366.5	378.1	386.6	390.8	392.9	391.8	386.6	378.1
95°	291.5	313.7	331.6	347.5	359.1	367.5	371.8	373.9	372.8	367.5	359.1
97.5°	274.6	294.7	312.6	327.4	339.0	347.5	351.7	353.8	353.8	348.5	340.1
100°	257.7	277.8	294.7	309.5	320.0	328.5	332.7	333.7	332.7	328.5	320.0
102.5°	240.8	259.8	276.7	290.4	302.1	309.5	313.7	314.7	314.7	309.5	301.0
105°	223.9	242.9	258.8	273.5	283.1	290.4	293.6	296.8	295.7	291.5	283.1
107.5°	208.1	227.1	241.9	255.6	265.1	272.5	275.7	278.8	277.8	273.5	265.1
110°	193.3	211.2	225.0	238.7	247.1	254.5	259.8	260.9	258.8	254.5	247.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-54SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	179.5	195.4	209.1	221.8	231.3	236.6	240.8	242.9	240.8	236.6	231.3
115°	164.8	180.6	194.3	206.0	214.4	220.7	223.9	226.0	223.9	219.7	214.4
117.5°	151.0	165.8	179.5	191.2	198.6	203.8	207.0	209.1	207.0	203.8	198.6
120°	139.4	152.1	164.8	175.3	183.8	188.0	191.2	193.3	192.2	188.0	182.7
122.5°	125.7	139.4	151.0	161.6	169.0	173.2	175.3	177.4	176.4	173.2	167.9
125°	114.1	125.7	137.3	146.8	154.2	158.4	160.5	162.6	161.6	158.4	152.1
127.5°	101.4	114.1	123.6	133.1	138.4	144.7	145.8	147.9	146.8	143.6	138.4
130°	91.9	101.4	110.9	119.3	125.7	129.9	132.0	133.1	131.0	128.9	123.6
132.5°	80.3	90.8	99.3	106.7	110.9	115.1	117.2	118.3	118.3	115.1	110.9
135°	71.8	79.2	86.6	94.0	98.2	102.4	104.6	105.6	104.6	102.4	98.2
137.5°	64.4	70.8	76.0	82.4	87.7	89.8	91.9	91.9	90.8	89.8	86.6
140°	56.0	63.4	68.7	72.9	77.1	78.2	80.3	80.3	79.2	78.2	76.0
142.5°	47.5	53.9	59.1	64.4	67.6	69.7	70.8	71.8	70.8	69.7	66.5
145°	38.0	45.4	50.7	53.9	58.1	59.1	60.2	61.3	60.2	59.1	56.0
147.5°	29.6	35.9	41.2	45.4	48.6	49.6	50.7	51.8	50.7	48.6	47.5
150°	21.1	26.4	32.7	37.0	39.1	41.2	41.2	41.2	42.2	40.1	38.0
152.5°	16.9	19.0	23.2	27.5	30.6	31.7	32.7	32.7	31.7	31.7	29.6
155°	11.6	13.7	16.9	20.1	23.2	24.3	25.3	25.3	24.3	24.3	23.2
157.5°	7.4	9.5	11.6	13.7	16.9	18.0	19.0	19.0	19.0	18.0	16.9
160°	4.2	5.3	6.3	8.4	10.6	11.6	12.7	12.7	12.7	12.7	11.6
162.5°	3.2	3.2	3.2	4.2	5.3	6.3	7.4	7.4	7.4	7.4	6.3
165°	2.1	2.1	2.1	2.1	2.1	3.2	4.2	4.2	4.2	4.2	4.2
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-LD5-54SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1001.2	1001.2	1001.2	1001.2	1001.2	1001.2	1001.2	1001.2	1001.2	1001.2	1001.2
2.5°	996.0	996.0	997.0	994.9	988.6	989.6	989.6	993.8	996.0	997.0	1002.3
5°	993.8	993.8	996.0	992.8	987.5	987.5	987.5	991.7	992.8	994.9	999.1
7.5°	990.7	990.7	991.7	988.6	982.2	982.2	981.2	985.4	987.5	988.6	992.8
10°	985.4	985.4	986.5	983.3	975.9	975.9	974.8	978.0	979.1	981.2	984.3
12.5°	978.0	978.0	978.0	974.8	967.4	966.4	965.3	968.5	968.5	969.6	972.7
15°	971.7	969.6	969.6	966.4	959.0	956.9	954.8	955.8	957.9	956.9	959.0
17.5°	964.3	962.2	960.1	956.9	947.4	944.2	942.1	943.2	942.1	941.0	943.2
20°	955.8	952.7	951.6	946.3	936.8	931.5	927.3	925.2	926.3	923.1	924.1
22.5°	946.3	942.1	940.0	933.6	924.1	917.8	912.5	908.3	907.2	903.0	904.1
25°	934.7	929.4	926.3	921.0	910.4	903.0	896.7	890.3	887.2	881.9	880.8
27.5°	921.0	915.7	911.5	906.2	895.6	886.1	878.7	870.3	866.1	859.7	856.5
30°	907.2	900.9	894.6	890.3	878.7	868.2	856.5	849.2	842.8	835.4	830.1
32.5°	890.3	884.0	877.7	871.3	860.8	848.1	838.6	827.0	819.6	811.1	804.8
35°	873.4	865.0	858.7	850.2	840.7	825.9	814.3	802.7	793.2	783.7	776.3
37.5°	854.4	848.1	838.6	831.2	819.6	804.8	792.1	777.3	768.9	756.2	746.7
40°	836.5	829.1	819.6	810.1	798.5	781.6	767.8	750.9	741.4	726.6	717.1
42.5°	818.5	808.0	798.5	787.9	775.2	759.4	742.5	725.6	712.9	699.2	685.4
45°	798.5	786.8	775.2	763.6	750.9	735.1	717.1	699.2	683.3	670.7	653.8
47.5°	777.3	765.7	752.0	739.3	725.6	709.7	690.7	671.7	654.8	640.0	622.1
50°	756.2	744.6	729.8	716.1	700.2	684.4	664.3	642.1	624.2	605.2	589.3
52.5°	734.0	722.4	708.7	690.7	673.8	658.0	636.9	613.6	593.6	577.7	557.7
55°	711.9	700.2	684.4	666.4	649.5	629.5	609.4	586.2	564.0	545.0	524.9
57.5°	688.6	678.1	660.1	645.3	624.2	603.1	581.9	559.8	535.5	513.3	490.1
60°	665.4	653.8	636.9	618.9	597.8	576.7	554.5	530.2	504.8	480.6	459.4
62.5°	644.3	629.5	613.6	594.6	572.4	552.4	527.0	500.6	475.3	449.9	424.6
65°	620.0	604.1	589.3	570.3	547.1	523.9	498.5	472.1	444.6	417.2	391.8
67.5°	595.7	579.8	564.0	545.0	520.7	496.4	470.0	443.6	413.0	386.6	357.0
70°	571.4	558.7	538.6	518.6	496.4	470.0	443.6	415.1	383.4	354.9	324.2
72.5°	547.1	534.4	514.4	493.2	472.1	444.6	416.1	387.6	358.0	325.3	292.6
75°	523.9	508.0	490.1	470.0	447.8	419.3	390.8	361.2	326.4	295.7	261.9
77.5°	501.7	486.9	468.9	446.8	422.5	395.0	365.4	334.8	300.0	267.2	230.2
80°	477.4	462.6	444.6	422.5	398.2	371.8	340.1	308.4	274.6	238.7	200.7
82.5°	454.2	440.4	420.4	400.3	373.9	347.5	315.8	284.1	248.2	213.3	176.4
85°	429.9	416.1	397.1	376.0	350.6	322.1	292.6	260.9	225.0	189.1	152.1
87.5°	408.7	392.9	373.9	352.8	327.4	300.0	271.4	237.6	202.8	167.9	129.9
90°	386.6	371.8	352.8	331.6	306.3	278.8	249.3	217.6	183.8	147.9	112.0
92.5°	367.5	351.7	333.7	312.6	287.3	260.9	231.3	199.6	166.9	132.0	97.2
95°	348.5	332.7	315.8	294.7	269.3	242.9	213.3	182.7	151.0	117.2	84.5
97.5°	327.4	313.7	296.8	276.7	251.4	226.0	197.5	167.9	137.3	104.6	73.9
100°	310.5	294.7	278.8	257.7	234.5	210.2	181.7	153.1	123.6	92.9	64.4
102.5°	291.5	276.7	260.9	240.8	217.6	193.3	166.9	139.4	112.0	83.4	56.0
105°	273.5	259.8	242.9	223.9	201.7	178.5	153.1	127.8	101.4	73.9	49.6
107.5°	255.6	241.9	226.0	208.1	186.9	163.7	140.5	115.1	90.8	66.5	44.4
110°	237.6	225.0	210.2	192.2	172.2	151.0	128.9	105.6	81.3	59.1	39.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-54SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	221.8	209.1	194.3	177.4	158.4	138.4	117.2	95.1	72.9	52.8	33.8
115°	206.0	194.3	179.5	164.8	145.8	126.7	106.7	85.5	65.5	47.5	29.6
117.5°	190.1	178.5	164.8	150.0	133.1	115.1	96.1	76.0	59.1	42.2	26.4
120°	174.3	163.7	151.0	137.3	122.5	104.6	85.5	68.7	52.8	37.0	23.2
122.5°	159.5	150.0	138.4	125.7	109.8	92.9	77.1	62.3	47.5	32.7	19.0
125°	145.8	136.2	125.7	113.0	98.2	83.4	69.7	56.0	41.2	28.5	15.8
127.5°	132.0	122.5	112.0	100.3	88.7	75.0	62.3	49.6	37.0	25.3	13.7
130°	118.3	109.8	100.3	90.8	79.2	66.5	56.0	43.3	31.7	20.1	11.6
132.5°	104.6	98.2	89.8	80.3	69.7	60.2	48.6	38.0	27.5	18.0	10.6
135°	92.9	86.6	79.2	70.8	62.3	52.8	42.2	32.7	23.2	14.8	8.4
137.5°	82.4	77.1	69.7	62.3	54.9	45.4	37.0	27.5	19.0	12.7	6.3
140°	72.9	67.6	61.3	53.9	47.5	39.1	30.6	22.2	16.9	10.6	5.3
142.5°	63.4	58.1	52.8	46.5	40.1	32.7	25.3	19.0	13.7	8.4	5.3
145°	53.9	49.6	44.4	39.1	32.7	26.4	21.1	15.8	10.6	6.3	4.2
147.5°	44.4	41.2	35.9	31.7	26.4	21.1	16.9	12.7	8.4	5.3	3.2
150°	35.9	32.7	28.5	24.3	21.1	16.9	13.7	9.5	6.3	5.3	3.2
152.5°	27.5	25.3	22.2	20.1	16.9	12.7	9.5	7.4	5.3	4.2	2.1
155°	22.2	20.1	18.0	14.8	12.7	9.5	7.4	5.3	4.2	3.2	2.1
157.5°	15.8	14.8	12.7	10.6	8.4	6.3	5.3	5.3	3.2	2.1	1.1
160°	10.6	9.5	8.4	6.3	5.3	5.3	4.2	3.2	2.1	2.1	1.1
162.5°	6.3	5.3	5.3	5.3	4.2	4.2	3.2	2.1	2.1	1.1	1.1
165°	4.2	4.2	4.2	3.2	3.2	3.2	2.1	1.1	1.1	1.1	1.1
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-LD5-54SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1001.2	1001.2	1001.2	1001.2	1001.2	1001.2	1001.2	1001.2	1001.2	1001.2	1001.2
2.5°	1002.3	999.1	1003.4	1010.7	1011.8	1010.7	1008.6	1011.8	1016.0	1015.0	1007.6
5°	1000.2	996.0	1000.2	1007.6	1007.6	1006.5	1005.5	1008.6	1012.9	1011.8	1005.5
7.5°	993.8	989.6	993.8	1000.2	1001.2	999.1	999.1	1002.3	1006.5	1005.5	1000.2
10°	985.4	981.2	983.3	990.7	992.8	990.7	990.7	993.8	999.1	998.1	991.7
12.5°	972.7	969.6	971.7	978.0	980.1	979.1	978.0	982.2	987.5	987.5	981.2
15°	959.0	954.8	956.9	964.3	965.3	963.2	964.3	967.4	973.8	973.8	968.5
17.5°	943.2	937.9	941.0	946.3	947.4	947.4	947.4	951.6	959.0	957.9	953.7
20°	925.2	917.8	919.9	925.2	927.3	927.3	927.3	934.7	940.0	940.0	935.8
22.5°	904.1	898.8	898.8	904.1	907.2	906.2	906.2	912.5	919.9	918.9	918.9
25°	879.8	875.6	873.4	879.8	880.8	881.9	884.0	890.3	898.8	898.8	899.9
27.5°	854.4	850.2	849.2	854.4	855.5	856.5	858.7	866.1	874.5	875.6	877.7
30°	830.1	823.8	821.7	825.9	828.0	829.1	829.1	840.7	848.1	851.3	855.5
32.5°	801.6	795.3	790.0	797.4	798.5	800.6	801.6	813.2	821.7	827.0	833.3
35°	773.1	762.5	760.4	765.7	767.8	768.9	771.0	783.7	795.3	799.5	808.0
37.5°	741.4	734.0	727.7	733.0	735.1	736.1	742.5	754.1	765.7	772.1	780.5
40°	711.9	702.3	697.1	700.2	702.3	703.4	710.8	723.5	737.2	744.6	755.2
42.5°	679.1	666.4	662.2	665.4	666.4	669.6	675.9	692.8	706.6	717.1	725.6
45°	646.4	636.9	627.4	630.5	631.6	633.7	643.2	661.2	675.9	688.6	698.1
47.5°	612.6	601.0	591.5	593.6	597.8	598.8	609.4	630.5	644.3	658.0	670.7
50°	578.8	562.9	555.5	555.5	557.7	562.9	576.7	597.8	612.6	628.4	642.1
52.5°	543.9	529.1	520.7	521.7	523.9	530.2	542.9	564.0	580.9	597.8	614.7
55°	509.1	493.2	484.8	482.7	484.8	493.2	508.0	530.2	547.1	567.2	585.1
57.5°	474.2	455.2	447.8	444.6	446.8	457.3	472.1	495.3	516.5	535.5	556.6
60°	436.2	421.4	408.7	401.3	406.6	420.4	436.2	460.5	482.7	503.8	527.0
62.5°	403.5	384.4	370.7	363.3	368.6	380.2	402.4	425.6	449.9	474.2	497.5
65°	366.5	347.5	331.6	324.2	329.5	343.3	365.4	390.8	417.2	441.5	468.9
67.5°	330.6	310.5	291.5	284.1	290.4	305.2	329.5	358.0	386.6	411.9	441.5
70°	295.7	273.5	253.5	248.2	252.4	272.5	295.7	324.2	353.8	383.4	414.0
72.5°	264.0	236.6	215.5	209.1	214.4	236.6	263.0	292.6	324.2	355.9	388.7
75°	227.1	201.7	178.5	171.1	177.4	197.5	230.2	261.9	295.7	329.5	360.2
77.5°	197.5	167.9	143.6	132.0	142.6	167.9	199.6	233.4	268.3	303.1	338.0
80°	166.9	136.2	109.8	97.2	108.8	136.2	167.9	204.9	244.0	278.8	310.5
82.5°	139.4	106.7	79.2	65.5	78.2	108.8	143.6	180.6	218.6	253.5	290.4
85°	114.1	80.3	51.8	37.0	54.9	82.4	119.3	157.4	196.4	232.4	268.3
87.5°	92.9	60.2	31.7	15.8	33.8	64.4	99.3	137.3	176.4	212.3	246.1
90°	76.0	43.3	16.9	2.1	20.1	48.6	82.4	119.3	156.3	193.3	227.1
92.5°	62.3	32.7	9.5	1.1	12.7	39.1	70.8	105.6	141.5	177.4	210.2
95°	51.8	25.3	6.3	1.1	9.5	30.6	60.2	94.0	127.8	162.6	195.4
97.5°	44.4	21.1	5.3	1.1	7.4	26.4	51.8	83.4	116.2	148.9	180.6
100°	38.0	16.9	4.2	1.1	6.3	22.2	45.4	73.9	104.6	136.2	166.9
102.5°	32.7	13.7	3.2	1.1	5.3	19.0	40.1	66.5	94.0	124.6	154.2
105°	28.5	11.6	3.2	1.1	4.2	16.9	35.9	59.1	86.6	114.1	142.6
107.5°	24.3	9.5	2.1	1.1	3.2	13.7	31.7	53.9	78.2	104.6	131.0
110°	21.1	8.4	2.1	1.1	3.2	12.7	27.5	48.6	70.8	95.1	120.4



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-54SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	18.0	6.3	2.1	1.1	2.1	10.6	24.3	43.3	64.4	86.6	110.9
115°	15.8	5.3	1.1	1.1	2.1	9.5	22.2	39.1	58.1	79.2	101.4
117.5°	12.7	4.2	1.1	1.1	1.1	7.4	19.0	34.9	52.8	72.9	92.9
120°	10.6	4.2	1.1	1.1	1.1	6.3	16.9	30.6	47.5	65.5	84.5
122.5°	9.5	3.2	1.1	1.1	1.1	5.3	14.8	27.5	42.2	59.1	77.1
125°	8.4	3.2	1.1	1.1	1.1	4.2	12.7	24.3	38.0	52.8	69.7
127.5°	6.3	3.2	1.1	1.1	1.1	3.2	11.6	21.1	33.8	47.5	62.3
130°	5.3	2.1	1.1	1.1	1.1	3.2	9.5	19.0	29.6	42.2	56.0
132.5°	4.2	2.1	1.1	1.1	1.1	2.1	7.4	14.8	25.3	37.0	49.6
135°	4.2	2.1	1.1	1.1	1.1	2.1	5.3	12.7	21.1	31.7	42.2
137.5°	4.2	1.1	1.1	1.1	1.1	2.1	4.2	9.5	16.9	25.3	34.9
140°	3.2	1.1	1.1	1.1	1.1	1.1	3.2	7.4	13.7	21.1	29.6
142.5°	3.2	1.1	1.1	1.1	1.1	1.1	3.2	5.3	10.6	16.9	23.2
145°	2.1	1.1	1.1	1.1	1.1	1.1	2.1	4.2	8.4	12.7	19.0
147.5°	2.1	1.1	1.1	1.1	1.1	1.1	2.1	3.2	6.3	10.6	14.8
150°	2.1	1.1	1.1	1.1	1.1	1.1	2.1	3.2	4.2	7.4	11.6
152.5°	1.1	1.1	1.1	1.1	1.1	1.1	2.1	2.1	3.2	5.3	7.4
155°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.1	3.2	4.2	5.3
157.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.1	2.1	3.2	4.2
160°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.1	2.1	3.2
162.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.1	2.1
165°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
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-LD5-54SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1001.2	1001.2	1001.2	1001.2	1001.2	1001.2	1001.2	1001.2	1001.2	1001.2	1001.2
2.5°	1004.4	997.0	999.1	998.1	1000.2	1003.4	1003.4	1002.3	1002.3	1000.2	998.1
5°	1002.3	994.9	998.1	997.0	999.1	1002.3	1002.3	1001.2	1001.2	998.1	997.0
7.5°	996.0	990.7	992.8	992.8	994.9	998.1	998.1	997.0	997.0	993.8	992.8
10°	989.6	983.3	986.5	986.5	988.6	992.8	992.8	991.7	991.7	988.6	987.5
12.5°	979.1	972.7	978.0	979.1	981.2	985.4	984.3	984.3	984.3	981.2	980.1
15°	966.4	962.2	967.4	968.5	971.7	977.0	977.0	977.0	977.0	973.8	972.7
17.5°	952.7	949.5	954.8	956.9	961.1	966.4	966.4	967.4	968.5	966.4	965.3
20°	936.8	934.7	940.0	944.2	950.5	955.8	957.9	959.0	961.1	959.0	957.9
22.5°	918.9	918.9	926.3	930.5	937.9	943.2	946.3	949.5	951.6	949.5	948.4
25°	898.8	902.0	909.4	916.7	925.2	930.5	933.6	937.9	940.0	938.9	937.9
27.5°	879.8	884.0	893.5	900.9	908.3	916.7	919.9	925.2	927.3	927.3	926.3
30°	857.6	863.9	874.5	883.0	892.5	900.9	905.1	910.4	913.6	911.5	912.5
32.5°	836.5	847.0	855.5	865.0	875.6	884.0	889.3	895.6	898.8	897.7	898.8
35°	813.2	823.8	835.4	844.9	857.6	866.1	873.4	878.7	883.0	881.9	881.9
37.5°	787.9	801.6	813.2	825.9	837.5	847.0	854.4	860.8	865.0	865.0	865.0
40°	763.6	778.4	790.0	804.8	819.6	828.0	836.5	842.8	847.0	848.1	849.2
42.5°	737.2	753.0	766.8	782.6	797.4	808.0	817.5	824.9	829.1	831.2	830.1
45°	712.9	727.7	743.5	761.5	775.2	785.8	797.4	805.9	810.1	811.1	812.2
47.5°	685.4	702.3	720.3	738.3	752.0	765.7	776.3	784.7	789.0	792.1	792.1
50°	659.0	677.0	697.1	716.1	730.9	744.6	755.2	764.7	769.9	772.1	773.1
52.5°	634.8	651.7	672.8	691.8	706.6	720.3	734.0	744.6	749.9	752.0	752.0
55°	605.2	626.3	649.5	667.5	683.3	699.2	712.9	723.5	728.8	731.9	734.0
57.5°	577.7	599.9	624.2	643.2	662.2	677.0	689.7	703.4	707.6	711.9	712.9
60°	551.3	573.5	596.7	617.9	636.9	652.7	667.5	679.1	686.5	688.6	690.7
62.5°	523.9	547.1	571.4	592.5	612.6	631.6	645.3	655.9	664.3	667.5	669.6
65°	497.5	521.7	546.0	568.2	589.3	608.3	622.1	632.6	641.1	646.4	647.4
67.5°	468.9	495.3	520.7	543.9	565.0	585.1	598.8	609.4	617.9	624.2	625.2
70°	442.5	470.0	495.3	520.7	541.8	561.9	576.7	587.2	596.7	601.0	603.1
72.5°	417.2	445.7	472.1	497.5	518.6	538.6	554.5	565.0	574.6	579.8	580.9
75°	392.9	421.4	449.9	474.2	496.4	516.5	532.3	543.9	552.4	557.7	559.8
77.5°	368.6	398.2	426.7	451.0	474.2	494.3	508.0	521.7	530.2	536.5	536.5
80°	344.3	374.9	404.5	428.8	452.0	470.0	485.8	499.6	508.0	514.4	514.4
82.5°	323.2	352.8	381.3	405.6	428.8	448.9	464.7	477.4	486.9	491.1	492.2
85°	298.9	331.6	358.0	384.4	406.6	425.6	441.5	455.2	463.7	467.9	470.0
87.5°	278.8	310.5	339.0	362.3	384.4	403.5	421.4	433.0	441.5	446.8	448.9
90°	259.8	290.4	319.0	342.2	365.4	383.4	400.3	411.9	421.4	425.6	427.7
92.5°	242.9	273.5	301.0	324.2	346.4	366.5	382.3	393.9	402.4	406.6	409.8
95°	227.1	256.6	283.1	308.4	329.5	347.5	364.4	376.0	385.5	388.7	391.8
97.5°	211.2	239.7	266.2	290.4	312.6	329.5	345.4	357.0	364.4	369.7	372.8
100°	197.5	225.0	250.3	273.5	294.7	310.5	327.4	338.0	345.4	349.6	353.8
102.5°	182.7	210.2	234.5	256.6	278.8	293.6	309.5	320.0	326.4	333.7	333.7
105°	170.0	195.4	219.7	240.8	259.8	277.8	291.5	302.1	309.5	314.7	314.7
107.5°	156.3	181.7	204.9	227.1	245.0	261.9	274.6	284.1	292.6	295.7	298.9
110°	145.8	167.9	191.2	212.3	229.2	245.0	257.7	268.3	275.7	278.8	280.9



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-54SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	133.1	156.3	177.4	197.5	214.4	229.2	241.9	250.3	257.7	261.9	263.0
115°	122.5	144.7	163.7	182.7	200.7	213.3	225.0	233.4	240.8	244.0	246.1
117.5°	113.0	133.1	152.1	167.9	184.8	198.6	210.2	217.6	223.9	228.1	230.2
120°	103.5	122.5	139.4	155.3	171.1	183.8	194.3	201.7	209.1	212.3	212.3
122.5°	94.0	112.0	127.8	142.6	157.4	169.0	180.6	186.9	193.3	196.4	196.4
125°	85.5	102.4	117.2	131.0	144.7	155.3	164.8	172.2	178.5	180.6	180.6
127.5°	77.1	92.9	106.7	119.3	131.0	141.5	151.0	158.4	163.7	165.8	165.8
130°	69.7	83.4	96.1	108.8	120.4	128.9	138.4	144.7	147.9	151.0	152.1
132.5°	62.3	75.0	86.6	97.2	108.8	117.2	124.6	131.0	134.1	137.3	138.4
135°	54.9	66.5	77.1	87.7	97.2	105.6	112.0	117.2	121.5	123.6	124.6
137.5°	46.5	59.1	68.7	77.1	87.7	94.0	101.4	104.6	108.8	110.9	110.9
140°	39.1	48.6	59.1	67.6	76.0	82.4	88.7	94.0	97.2	98.2	98.2
142.5°	31.7	40.1	48.6	59.1	66.5	71.8	78.2	82.4	84.5	85.5	86.6
145°	25.3	31.7	39.1	48.6	57.0	63.4	66.5	70.8	72.9	73.9	75.0
147.5°	19.0	25.3	31.7	38.0	46.5	52.8	56.0	60.2	62.3	63.4	63.4
150°	14.8	19.0	23.2	29.6	35.9	43.3	47.5	50.7	51.8	52.8	52.8
152.5°	10.6	14.8	18.0	22.2	26.4	32.7	39.1	41.2	42.2	43.3	43.3
155°	7.4	10.6	12.7	15.8	19.0	24.3	29.6	32.7	33.8	34.9	34.9
157.5°	5.3	7.4	8.4	11.6	13.7	15.8	20.1	25.3	26.4	26.4	26.4
160°	3.2	4.2	5.3	7.4	8.4	10.6	12.7	15.8	19.0	19.0	19.0
162.5°	2.1	3.2	3.2	4.2	4.2	6.3	7.4	8.4	11.6	12.7	12.7
165°	1.1	2.1	2.1	2.1	2.1	2.1	3.2	3.2	5.3	6.3	6.3
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-LD5-54SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1001.2	1001.2	1001.2	1001.2	1001.2	1001.2	1001.2	1001.2	1001.2	1001.2	1001.2
2.5°	999.1	1001.2	1000.2	1000.2	1000.2	1002.3	1000.2	990.7	992.8	994.9	997.0
5°	998.1	999.1	999.1	998.1	998.1	1000.2	998.1	988.6	990.7	992.8	993.8
7.5°	993.8	994.9	994.9	994.9	993.8	996.0	992.8	984.3	984.3	986.5	987.5
10°	988.6	990.7	989.6	988.6	988.6	988.6	986.5	977.0	977.0	978.0	979.1
12.5°	982.2	982.2	982.2	981.2	980.1	980.1	978.0	968.5	967.4	969.6	968.5
15°	973.8	975.9	973.8	972.7	970.6	970.6	967.4	957.9	955.8	956.9	955.8
17.5°	966.4	967.4	965.3	963.2	961.1	960.1	956.9	946.3	943.2	944.2	942.1
20°	959.0	959.0	956.9	954.8	951.6	948.4	944.2	933.6	928.4	928.4	924.1
22.5°	949.5	949.5	947.4	944.2	941.0	936.8	932.6	922.0	913.6	911.5	908.3
25°	938.9	937.9	936.8	933.6	927.3	923.1	918.9	907.2	897.7	893.5	888.2
27.5°	926.3	926.3	923.1	919.9	913.6	908.3	903.0	892.5	879.8	874.5	867.1
30°	912.5	912.5	909.4	905.1	898.8	892.5	886.1	873.4	860.8	853.4	844.9
32.5°	898.8	897.7	894.6	890.3	884.0	874.5	869.2	856.5	841.8	833.3	821.7
35°	881.9	880.8	877.7	872.4	863.9	856.5	848.1	836.5	819.6	809.0	796.3
37.5°	865.0	863.9	861.8	854.4	846.0	837.5	827.0	815.4	799.5	785.8	773.1
40°	848.1	847.0	842.8	837.5	827.0	816.4	805.9	794.2	777.3	761.5	747.8
42.5°	830.1	829.1	823.8	817.5	805.9	795.3	782.6	769.9	753.0	734.0	720.3
45°	812.2	810.1	804.8	797.4	784.7	773.1	760.4	745.7	728.8	710.8	692.8
47.5°	793.2	790.0	784.7	774.2	763.6	750.9	736.1	720.3	703.4	683.3	664.3
50°	772.1	769.9	763.6	754.1	741.4	728.8	711.9	696.0	675.9	656.9	633.7
52.5°	752.0	747.8	742.5	731.9	719.2	705.5	687.6	668.6	648.5	630.5	606.2
55°	730.9	728.8	721.4	712.9	697.1	681.2	664.3	644.3	622.1	601.0	577.7
57.5°	710.8	706.6	700.2	688.6	674.9	659.0	641.1	620.0	595.7	573.5	548.1
60°	690.7	684.4	677.0	666.4	651.7	634.8	615.7	593.6	569.3	545.0	518.6
62.5°	668.6	663.3	654.8	644.3	629.5	611.5	591.5	568.2	545.0	519.6	491.1
65°	646.4	641.1	632.6	622.1	607.3	587.2	566.1	542.9	516.5	492.2	461.5
67.5°	624.2	618.9	609.4	597.8	583.0	564.0	541.8	517.5	491.1	464.7	433.0
70°	602.0	595.7	587.2	574.6	559.8	539.7	517.5	492.2	465.8	437.3	405.6
72.5°	579.8	574.6	564.0	552.4	536.5	516.5	494.3	468.9	441.5	411.9	380.2
75°	557.7	551.3	543.9	530.2	513.3	494.3	471.0	445.7	416.1	387.6	354.9
77.5°	535.5	530.2	520.7	507.0	491.1	471.0	447.8	422.5	392.9	363.3	328.5
80°	513.3	507.0	499.6	486.9	468.9	448.9	424.6	399.2	369.7	339.0	304.2
82.5°	491.1	484.8	476.3	463.7	446.8	426.7	403.5	376.0	346.4	314.7	282.0
85°	468.9	463.7	454.2	441.5	423.5	403.5	380.2	355.9	324.2	292.6	259.8
87.5°	446.8	441.5	432.0	419.3	402.4	382.3	359.1	333.7	303.1	273.5	237.6
90°	425.6	421.4	411.9	399.2	382.3	362.3	341.1	313.7	284.1	254.5	220.7
92.5°	406.6	402.4	393.9	381.3	366.5	344.3	323.2	296.8	267.2	236.6	203.8
95°	389.7	384.4	376.0	364.4	346.4	327.4	306.3	279.9	251.4	220.7	189.1
97.5°	370.7	365.4	357.0	344.3	329.5	309.5	288.3	263.0	234.5	206.0	174.3
100°	351.7	346.4	336.9	326.4	311.6	291.5	271.4	246.1	219.7	192.2	161.6
102.5°	332.7	327.4	319.0	308.4	293.6	275.7	255.6	231.3	204.9	177.4	148.9
105°	314.7	309.5	301.0	290.4	276.7	258.8	237.6	216.5	191.2	164.8	137.3
107.5°	296.8	291.5	284.1	273.5	259.8	242.9	222.9	200.7	177.4	152.1	125.7
110°	278.8	274.6	266.2	256.6	242.9	226.0	208.1	186.9	163.7	140.5	115.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-54SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	261.9	257.7	249.3	238.7	227.1	211.2	193.3	173.2	151.0	128.9	104.6
115°	245.0	239.7	232.4	222.9	211.2	196.4	179.5	161.6	139.4	118.3	96.1
117.5°	228.1	223.9	216.5	207.0	196.4	181.7	165.8	148.9	127.8	107.7	87.7
120°	211.2	208.1	200.7	192.2	181.7	167.9	153.1	136.2	117.2	98.2	79.2
122.5°	195.4	192.2	184.8	177.4	166.9	154.2	140.5	124.6	107.7	89.8	72.9
125°	180.6	176.4	170.0	162.6	153.1	141.5	127.8	113.0	97.2	81.3	65.5
127.5°	164.8	161.6	157.4	148.9	139.4	128.9	116.2	103.5	88.7	73.9	59.1
130°	152.1	147.9	142.6	136.2	127.8	117.2	105.6	92.9	80.3	66.5	51.8
132.5°	137.3	133.1	128.9	122.5	115.1	105.6	95.1	83.4	71.8	59.1	46.5
135°	123.6	120.4	116.2	109.8	102.4	95.1	84.5	73.9	63.4	51.8	41.2
137.5°	110.9	107.7	103.5	99.3	91.9	84.5	75.0	65.5	56.0	45.4	35.9
140°	98.2	96.1	91.9	87.7	81.3	73.9	65.5	57.0	48.6	39.1	30.6
142.5°	85.5	83.4	80.3	76.0	70.8	64.4	57.0	49.6	41.2	33.8	26.4
145°	73.9	72.9	69.7	65.5	61.3	54.9	48.6	42.2	34.9	28.5	21.1
147.5°	62.3	61.3	59.1	56.0	51.8	46.5	41.2	34.9	29.6	23.2	16.9
150°	51.8	50.7	49.6	45.4	43.3	38.0	33.8	28.5	24.3	18.0	13.7
152.5°	42.2	42.2	40.1	37.0	34.9	30.6	27.5	23.2	19.0	14.8	10.6
155°	33.8	32.7	31.7	29.6	27.5	24.3	21.1	18.0	14.8	10.6	7.4
157.5°	26.4	25.3	24.3	22.2	20.1	19.0	15.8	12.7	9.5	7.4	5.3
160°	19.0	18.0	16.9	15.8	14.8	12.7	10.6	8.4	6.3	4.2	3.2
162.5°	12.7	11.6	11.6	10.6	9.5	7.4	6.3	5.3	4.2	3.2	2.1
165°	6.3	6.3	5.3	5.3	4.2	3.2	3.2	3.2	2.1	2.1	1.1
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-LD5-54SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1001.2	1001.2	1001.2	1001.2	1001.2	1001.2	1001.2
2.5°	996.0	996.0	1000.2	999.1	996.0	1002.3	1009.7
5°	992.8	992.8	996.0	996.0	992.8	999.1	1005.5
7.5°	987.5	986.5	989.6	989.6	985.4	990.7	998.1
10°	978.0	977.0	980.1	980.1	975.9	981.2	987.5
12.5°	967.4	965.3	968.5	967.4	963.2	968.5	974.8
15°	953.7	952.7	954.8	952.7	948.4	953.7	960.1
17.5°	940.0	936.8	937.9	937.9	930.5	935.8	941.0
20°	922.0	917.8	918.9	917.8	912.5	915.7	922.0
22.5°	904.1	897.7	897.7	896.7	890.3	894.6	899.9
25°	881.9	874.5	874.5	873.4	866.1	869.2	874.5
27.5°	859.7	852.3	849.2	848.1	840.7	840.7	848.1
30°	836.5	825.9	823.8	820.6	813.2	813.2	819.6
32.5°	814.3	799.5	795.3	791.1	783.7	782.6	790.0
35°	784.7	773.1	765.7	761.5	753.0	750.9	757.3
37.5°	760.4	745.7	735.1	729.8	721.4	718.2	726.6
40°	734.0	718.2	704.5	701.3	688.6	684.4	691.8
42.5°	704.5	687.6	673.8	667.5	658.0	653.8	654.8
45°	674.9	656.9	642.1	633.7	624.2	616.8	621.0
47.5°	644.3	628.4	610.5	597.8	586.2	580.9	583.0
50°	613.6	594.6	577.7	564.0	550.3	543.9	548.1
52.5°	583.0	562.9	543.9	529.1	513.3	507.0	508.0
55°	553.4	532.3	510.1	494.3	479.5	470.0	467.9
57.5°	523.9	500.6	477.4	459.4	440.4	432.0	428.8
60°	492.2	467.9	443.6	422.5	402.4	392.9	388.7
62.5°	462.6	436.2	408.7	386.6	366.5	353.8	350.6
65°	434.1	403.5	376.0	350.6	328.5	314.7	310.5
67.5°	403.5	371.8	342.2	314.7	293.6	275.7	273.5
70°	374.9	341.1	308.4	279.9	256.6	238.7	230.2
72.5°	346.4	311.6	277.8	247.1	217.6	200.7	194.3
75°	319.0	283.1	247.1	215.5	182.7	162.6	156.3
77.5°	293.6	256.6	218.6	183.8	153.1	127.8	119.3
80°	269.3	231.3	191.2	155.3	122.5	95.1	85.5
82.5°	244.0	208.1	166.9	128.9	95.1	66.5	54.9
85°	221.8	185.9	144.7	106.7	72.9	42.2	29.6
87.5°	203.8	164.8	127.8	89.8	54.9	24.3	8.4
90°	185.9	147.9	110.9	73.9	41.2	13.7	1.1
92.5°	170.0	134.1	97.2	63.4	31.7	9.5	1.1
95°	155.3	120.4	85.5	52.8	25.3	6.3	1.1
97.5°	141.5	108.8	76.0	45.4	21.1	5.3	1.1
100°	129.9	98.2	67.6	40.1	18.0	4.2	1.1
102.5°	118.3	88.7	60.2	34.9	15.8	3.2	1.1
105°	108.8	80.3	53.9	31.7	13.7	3.2	1.1
107.5°	99.3	72.9	48.6	27.5	11.6	2.1	1.1
110°	89.8	66.5	43.3	24.3	10.6	2.1	1.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-54SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	82.4	60.2	39.1	22.2	8.4	2.1	1.1
115°	75.0	53.9	34.9	19.0	7.4	1.1	1.1
117.5°	67.6	48.6	30.6	16.9	6.3	1.1	1.1
120°	61.3	43.3	27.5	14.8	5.3	1.1	1.1
122.5°	54.9	39.1	24.3	12.7	4.2	1.1	1.1
125°	49.6	34.9	21.1	10.6	3.2	1.1	1.1
127.5°	44.4	30.6	19.0	9.5	3.2	1.1	1.1
130°	39.1	27.5	15.8	7.4	2.1	1.1	1.1
132.5°	34.9	23.2	13.7	6.3	2.1	1.1	1.1
135°	30.6	20.1	11.6	4.2	2.1	1.1	1.1
137.5°	26.4	16.9	9.5	3.2	1.1	1.1	1.1
140°	22.2	14.8	7.4	3.2	1.1	1.1	1.1
142.5°	19.0	11.6	5.3	2.1	1.1	1.1	1.1
145°	14.8	9.5	4.2	2.1	1.1	1.1	1.1
147.5°	11.6	7.4	3.2	2.1	1.1	1.1	1.1
150°	8.4	5.3	3.2	1.1	1.1	1.1	1.1
152.5°	6.3	4.2	2.1	1.1	1.1	1.1	1.1
155°	4.2	3.2	2.1	1.1	1.1	1.1	1.1
157.5°	3.2	2.1	1.1	1.1	1.1	1.1	1.1
160°	2.1	1.1	1.1	1.1	1.1	1.1	1.1
162.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1
165°	1.1	1.1	1.1	1.1	1.1	1.1	1.1
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)