

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: **4SNLED-LD5-58SL-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: 4SNLED-LD5-58SL-LW-UNV-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
WIDE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

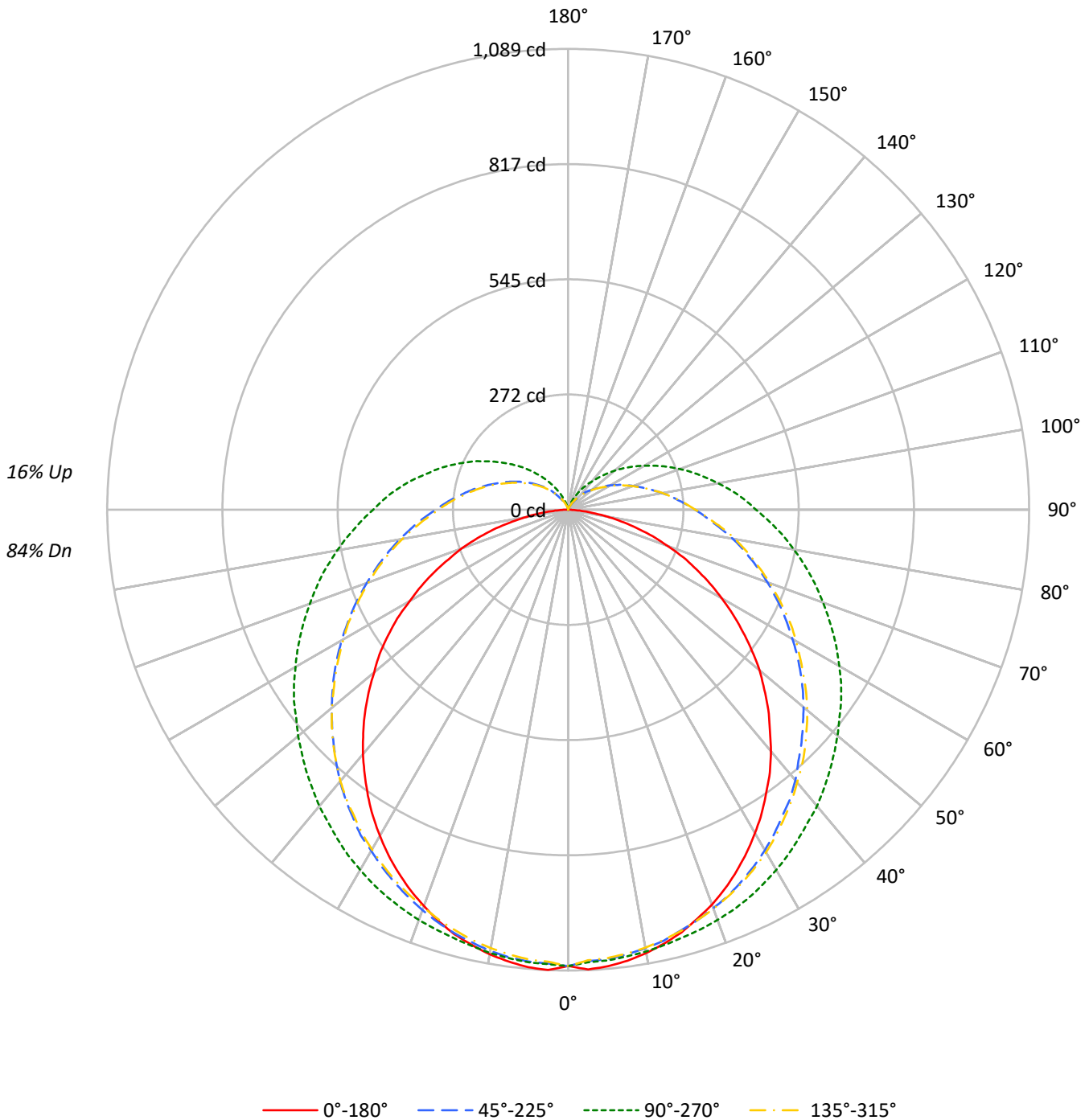
Lumens per Lamp: N/A
Luminaire Lumens: 4684.9 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 55
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



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8714	8714	8714	8714
5°	8760	8397	8779	8434
10°	8680	8159	8707	8186
15°	8579	7955	8616	7963
20°	8443	7806	8472	7806
25°	8277	7673	8327	7665
30°	8091	7537	8153	7537
35°	7874	7411	7962	7420
40°	7659	7336	7753	7336
45°	7412	7259	7526	7268
50°	7156	7213	7252	7232
55°	6796	7219	7010	7251
60°	6418	7242	6627	7286
65°	5993	7315	6258	7387
70°	5396	7449	5816	7555
75°	4706	7692	5153	7840
80°	3641	8052	4135	8240
85°	2172	8631	2719	8871



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.2	2.2
10°-20°	293.6	6.3
20°-30°	450.1	9.6
30°-40°	555.3	11.9
40°-50°	602.5	12.9
50°-60°	593.8	12.7
60°-70°	536.9	11.5
70°-80°	447.3	9.5
80°-90°	346.4	7.4
90°-100°	262.7	5.6
100°-110°	194.4	4.1
110°-120°	135.2	2.9
120°-130°	86.3	1.8
130°-140°	48.4	1.0
140°-150°	22.1	0.5
150°-160°	6.8	0.1
160°-170°	0.9	0.0
170°-180°	0.0	0.0
0°-30°	845.9	18.1
0°-40°	1401.2	29.9
0°-60°	2597.5	55.4
0°-90°	3928.0	83.8
90°-120°	592.4	12.6
90°-150°	749.2	16.0
90°-180°	757.0	16.2
0°-180°	4684.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1078	1078	1078	1078	1078	
5°	1083	1069	1085	1074	1083	103
15°	1034	1046	1038	1048	1034	291
25°	942	1011	948	1010	942	434
35°	816	949	825	950	816	511
45°	669	874	679	875	669	515
55°	504	787	520	791	504	451
65°	334	690	349	697	334	331
75°	168	592	184	603	168	178
85°	32	492	40	506	32	38
90°	1	444	2	461	1	2
95°	1	403	1	422	1	1
105°	1	320	1	339	1	1
115°	1	243	1	265	1	1
125°	1	175	1	194	1	1
135°	1	114	1	134	1	1
145°	1	66	1	81	1	1
155°	1	27	1	38	1	1
165°	1	4	1	7	1	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P#

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1078.3	1078.3	1078.3	1078.3	1078.3	1078.3	1078.3	1078.3	1078.3	1078.3	1078.3
2.5°	1087.4	1087.4	1086.3	1084.0	1085.2	1088.6	1086.3	1080.6	1077.2	1068.1	1070.4
5°	1082.9	1082.9	1081.8	1079.5	1080.6	1085.2	1082.9	1078.3	1073.8	1065.8	1069.2
7.5°	1074.9	1074.9	1073.8	1071.5	1073.8	1078.3	1076.1	1071.5	1068.1	1060.1	1063.6
10°	1063.6	1064.7	1063.6	1060.1	1064.7	1069.2	1068.1	1062.4	1059.0	1052.2	1055.6
12.5°	1049.9	1051.0	1049.9	1048.8	1051.0	1057.9	1055.6	1051.0	1048.8	1043.1	1046.5
15°	1034.0	1035.1	1032.8	1032.8	1035.1	1041.9	1041.9	1037.4	1035.1	1029.4	1036.3
17.5°	1013.5	1014.6	1013.5	1013.5	1015.8	1022.6	1023.7	1021.5	1019.2	1016.9	1023.7
20°	993.0	991.9	991.9	990.8	995.3	1005.5	1004.4	1004.4	1002.1	1002.1	1010.1
22.5°	969.1	969.1	968.0	968.0	973.7	982.8	982.8	985.1	982.8	987.3	994.2
25°	941.8	943.0	941.8	944.1	948.7	958.9	960.0	963.5	964.6	969.1	977.1
27.5°	913.4	914.5	913.4	915.7	923.6	931.6	937.3	941.8	943.0	949.8	960.0
30°	882.7	882.7	883.8	886.1	895.2	907.7	912.3	918.0	918.0	929.3	939.6
32.5°	850.8	850.8	850.8	855.4	865.6	880.4	886.1	892.9	895.2	906.6	918.0
35°	815.6	816.7	816.7	820.1	833.8	848.6	856.5	864.5	869.0	882.7	894.1
37.5°	782.6	784.9	781.5	786.0	805.3	817.9	827.0	834.9	842.9	861.1	870.2
40°	745.1	747.3	746.2	755.3	771.2	787.1	797.4	805.3	816.7	834.9	845.2
42.5°	705.2	707.5	709.8	720.0	737.1	753.0	765.5	775.8	789.4	805.3	822.4
45°	668.8	668.8	672.3	684.8	703.0	720.0	734.8	746.2	762.1	779.2	796.2
47.5°	627.9	629.0	633.6	648.4	667.7	688.2	701.8	716.6	733.7	751.9	771.2
50°	590.4	590.4	597.2	613.1	631.3	654.1	668.8	685.9	704.1	725.7	745.1
52.5°	547.1	549.4	559.6	574.4	598.3	618.8	635.9	654.1	675.7	698.4	720.0
55°	503.9	508.5	516.4	536.9	561.9	581.3	601.7	624.5	645.0	670.0	695.0
57.5°	461.8	465.2	477.7	498.2	524.4	548.3	569.9	591.5	616.5	641.5	667.7
60°	418.6	423.1	437.9	458.4	486.8	511.9	536.9	559.6	585.8	612.0	639.3
62.5°	377.6	381.1	398.1	422.0	450.4	477.7	502.8	530.1	558.5	583.5	610.8
65°	334.4	340.1	359.4	381.1	414.0	441.3	469.8	499.4	528.9	556.2	582.4
67.5°	294.6	298.0	318.5	343.5	376.5	407.2	436.8	468.6	499.4	527.8	554.0
70°	248.0	259.3	279.8	306.0	341.2	373.1	404.9	437.9	470.9	500.5	525.5
72.5°	209.3	218.4	241.1	269.6	303.7	341.2	374.2	409.5	442.5	473.2	499.4
75°	168.3	177.4	203.6	235.5	270.7	310.5	344.7	381.1	415.2	445.9	473.2
77.5°	128.5	139.9	168.3	201.3	240.0	281.0	316.2	352.6	387.9	420.9	448.2
80°	92.1	104.6	135.4	172.9	210.4	251.4	290.1	326.5	361.7	394.7	423.1
82.5°	59.1	72.8	105.8	143.3	183.1	224.1	263.9	300.3	335.6	368.5	398.1
85°	31.8	46.6	80.8	118.3	158.1	199.1	238.9	277.5	311.7	342.4	374.2
87.5°	9.1	27.3	60.3	97.8	138.8	176.3	215.0	253.7	287.8	320.8	349.2
90°	1.1	15.9	45.5	80.8	120.6	157.0	195.6	232.0	266.2	299.2	327.6
92.5°	1.1	10.2	35.3	67.1	103.5	141.0	179.7	215.0	246.8	279.8	308.3
95°	1.1	8.0	28.4	56.9	91.0	126.3	162.7	196.8	229.8	260.5	288.9
97.5°	1.1	5.7	22.7	48.9	79.6	112.6	147.9	182.0	213.8	243.4	269.6
100°	1.1	4.5	18.2	42.1	69.4	101.2	133.1	166.1	196.8	225.2	252.5
102.5°	1.1	3.4	15.9	35.3	61.4	89.9	120.6	151.3	180.9	208.2	235.5
105°	1.1	3.4	13.6	30.7	54.6	80.8	109.2	138.8	166.1	192.2	217.3
107.5°	1.1	2.3	11.4	26.2	47.8	72.8	99.0	127.4	152.4	177.4	201.3
110°	1.1	2.3	9.1	23.9	42.1	64.8	89.9	116.0	139.9	163.8	186.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.1	2.3	8.0	20.5	36.4	58.0	80.8	104.6	127.4	151.3	171.8
115°	1.1	2.3	6.8	18.2	34.1	50.0	72.8	94.4	117.2	138.8	158.1
117.5°	1.1	2.3	5.7	14.8	29.6	45.5	63.7	85.3	105.8	126.3	144.5
120°	1.1	2.3	4.5	13.6	26.2	40.9	56.9	76.2	95.5	114.9	134.2
122.5°	1.1	1.1	4.5	11.4	22.7	36.4	52.3	67.1	85.3	103.5	120.6
125°	1.1	1.1	4.5	10.2	19.3	33.0	46.6	60.3	76.2	92.1	106.9
127.5°	1.1	1.1	3.4	8.0	17.1	28.4	40.9	55.7	67.1	81.9	96.7
130°	1.1	1.1	3.4	6.8	14.8	23.9	36.4	48.9	62.6	72.8	85.3
132.5°	1.1	1.1	3.4	5.7	11.4	19.3	30.7	42.1	54.6	66.0	76.2
135°	1.1	1.1	2.3	4.5	9.1	15.9	25.0	35.3	47.8	59.1	69.4
137.5°	1.1	1.1	2.3	4.5	6.8	13.6	19.3	28.4	39.8	50.0	60.3
140°	1.1	1.1	2.3	3.4	5.7	10.2	15.9	22.7	31.8	40.9	52.3
142.5°	1.1	1.1	1.1	3.4	4.5	8.0	12.5	18.2	25.0	33.0	42.1
145°	1.1	1.1	1.1	3.4	4.5	5.7	10.2	14.8	19.3	25.0	33.0
147.5°	1.1	1.1	1.1	2.3	3.4	4.5	8.0	11.4	14.8	19.3	23.9
150°	1.1	1.1	1.1	2.3	3.4	4.5	5.7	8.0	11.4	15.9	19.3
152.5°	1.1	1.1	1.1	2.3	2.3	3.4	4.5	5.7	8.0	11.4	13.6
155°	1.1	1.1	1.1	1.1	2.3	3.4	4.5	4.5	5.7	8.0	10.2
157.5°	1.1	1.1	1.1	1.1	2.3	2.3	3.4	3.4	4.5	4.5	6.8
160°	1.1	1.1	1.1	1.1	1.1	2.3	2.3	3.4	3.4	3.4	3.4
162.5°	1.1	1.1	1.1	1.1	1.1	1.1	2.3	2.3	2.3	3.4	3.4
165°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.3	2.3	2.3
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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1078.3	1078.3	1078.3	1078.3	1078.3	1078.3	1078.3	1078.3	1078.3	1078.3	1078.3
2.5°	1070.4	1071.5	1074.9	1074.9	1072.7	1072.7	1071.5	1070.4	1071.5	1073.8	1073.8
5°	1068.1	1069.2	1072.7	1073.8	1071.5	1070.4	1070.4	1069.2	1070.4	1072.7	1072.7
7.5°	1063.6	1064.7	1068.1	1069.2	1067.0	1067.0	1065.8	1064.7	1067.0	1068.1	1068.1
10°	1056.7	1057.9	1062.4	1063.6	1062.4	1061.3	1061.3	1060.1	1061.3	1063.6	1063.6
12.5°	1047.6	1049.9	1055.6	1055.6	1055.6	1054.5	1054.5	1053.3	1054.5	1056.7	1055.6
15°	1037.4	1041.9	1046.5	1048.8	1048.8	1048.8	1047.6	1046.5	1048.8	1049.9	1048.8
17.5°	1026.0	1031.7	1038.5	1040.8	1040.8	1041.9	1040.8	1039.7	1041.9	1041.9	1040.8
20°	1014.6	1020.3	1027.2	1029.4	1031.7	1032.8	1032.8	1031.7	1032.8	1034.0	1032.8
22.5°	999.9	1006.7	1014.6	1018.1	1020.3	1022.6	1022.6	1022.6	1023.7	1024.9	1022.6
25°	983.9	991.9	1001.0	1004.4	1009.0	1010.1	1011.2	1011.2	1012.4	1013.5	1010.1
27.5°	966.9	976.0	985.1	990.8	994.2	996.4	996.4	997.6	998.7	999.9	996.4
30°	946.4	960.0	968.0	972.6	977.1	980.5	981.7	982.8	983.9	985.1	981.7
32.5°	928.2	939.6	949.8	955.5	961.2	965.7	966.9	966.9	969.1	969.1	965.7
35°	906.6	920.2	930.5	936.2	943.0	946.4	948.7	948.7	950.9	950.9	947.5
37.5°	885.0	898.6	910.0	916.8	924.8	929.3	930.5	930.5	932.7	932.7	928.2
40°	862.2	877.0	889.5	897.5	904.3	910.0	911.1	914.5	914.5	913.4	908.9
42.5°	839.5	853.1	866.8	875.9	885.0	890.7	892.9	894.1	894.1	892.9	889.5
45°	814.4	830.4	842.9	854.3	863.4	869.0	872.5	873.6	873.6	871.3	867.9
47.5°	790.6	806.5	819.0	831.5	840.6	847.4	850.8	852.0	850.8	849.7	846.3
50°	765.5	783.7	796.2	808.8	817.9	823.5	829.2	830.4	829.2	828.1	821.3
52.5°	739.4	758.7	772.4	784.9	795.1	801.9	806.5	807.6	807.6	805.3	800.8
55°	713.2	730.3	747.3	761.0	772.4	779.2	784.9	787.1	784.9	782.6	776.9
57.5°	689.3	705.2	722.3	737.1	748.5	757.6	762.1	764.4	762.1	758.7	753.0
60°	660.9	677.9	697.3	710.9	723.4	732.5	734.8	739.4	737.1	733.7	728.0
62.5°	633.6	654.1	671.1	688.2	698.4	708.7	713.2	715.5	713.2	709.8	704.1
65°	605.1	627.9	645.0	662.0	673.4	683.6	689.3	690.5	688.2	684.8	679.1
67.5°	579.0	600.6	618.8	637.0	647.2	657.5	663.2	665.4	663.2	658.6	652.9
70°	552.8	574.4	596.0	609.7	622.2	633.6	637.0	640.4	638.1	633.6	626.8
72.5°	526.7	549.4	571.0	584.7	598.3	608.6	613.1	616.5	614.2	609.7	601.7
75°	499.4	523.2	544.9	559.6	573.3	583.5	588.1	591.5	589.2	584.7	575.6
77.5°	474.3	498.2	518.7	534.6	548.3	557.4	565.3	566.5	564.2	559.6	550.5
80°	448.2	472.1	493.7	509.6	523.2	532.3	538.0	541.4	539.2	534.6	525.5
82.5°	425.4	447.0	468.6	484.6	498.2	509.6	514.1	517.6	516.4	509.6	502.8
85°	400.4	425.4	442.5	459.5	473.2	484.6	488.0	492.5	491.4	485.7	476.6
87.5°	375.4	400.4	420.9	437.9	450.4	459.5	465.2	467.5	466.4	460.7	450.4
90°	354.9	377.6	398.1	416.3	426.6	436.8	442.5	443.6	443.6	436.8	428.8
92.5°	335.6	357.2	377.6	394.7	407.2	416.3	420.9	423.1	422.0	416.3	407.2
95°	313.9	337.8	357.2	374.2	386.7	395.8	400.4	402.7	401.5	395.8	386.7
97.5°	295.7	317.4	336.7	352.6	365.1	374.2	378.8	381.1	381.1	375.4	366.3
100°	277.5	299.2	317.4	333.3	344.7	353.8	358.3	359.4	358.3	353.8	344.7
102.5°	259.3	279.8	298.0	312.8	325.3	333.3	337.8	339.0	339.0	333.3	324.2
105°	241.1	261.6	278.7	294.6	304.8	312.8	316.2	319.6	318.5	313.9	304.8
107.5°	224.1	244.6	260.5	275.3	285.5	293.5	296.9	300.3	299.2	294.6	285.5
110°	208.2	227.5	242.3	257.1	266.2	274.1	279.8	281.0	278.7	274.1	266.2



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-58SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	193.4	210.4	225.2	238.9	249.1	254.8	259.3	261.6	259.3	254.8	249.1
115°	177.4	194.5	209.3	221.8	230.9	237.7	241.1	243.4	241.1	236.6	230.9
117.5°	162.7	178.6	193.4	205.9	213.8	219.5	222.9	225.2	222.9	219.5	213.8
120°	150.1	163.8	177.4	188.8	197.9	202.5	205.9	208.2	207.0	202.5	196.8
122.5°	135.4	150.1	162.7	174.0	182.0	186.5	188.8	191.1	190.0	186.5	180.9
125°	122.8	135.4	147.9	158.1	166.1	170.6	172.9	175.2	174.0	170.6	163.8
127.5°	109.2	122.8	133.1	143.3	149.0	155.8	157.0	159.2	158.1	154.7	149.0
130°	99.0	109.2	119.4	128.5	135.4	139.9	142.2	143.3	141.0	138.8	133.1
132.5°	86.4	97.8	106.9	114.9	119.4	124.0	126.3	127.4	127.4	124.0	119.4
135°	77.3	85.3	93.3	101.2	105.8	110.3	112.6	113.7	112.6	110.3	105.8
137.5°	69.4	76.2	81.9	88.7	94.4	96.7	99.0	99.0	97.8	96.7	93.3
140°	60.3	68.2	73.9	78.5	83.0	84.2	86.4	86.4	85.3	84.2	81.9
142.5°	51.2	58.0	63.7	69.4	72.8	75.1	76.2	77.3	76.2	75.1	71.7
145°	40.9	48.9	54.6	58.0	62.6	63.7	64.8	66.0	64.8	63.7	60.3
147.5°	31.8	38.7	44.4	48.9	52.3	53.5	54.6	55.7	54.6	52.3	51.2
150°	22.7	28.4	35.3	39.8	42.1	44.4	44.4	44.4	45.5	43.2	40.9
152.5°	18.2	20.5	25.0	29.6	33.0	34.1	35.3	35.3	34.1	34.1	31.8
155°	12.5	14.8	18.2	21.6	25.0	26.2	27.3	27.3	26.2	26.2	25.0
157.5°	8.0	10.2	12.5	14.8	18.2	19.3	20.5	20.5	20.5	19.3	18.2
160°	4.5	5.7	6.8	9.1	11.4	12.5	13.6	13.6	13.6	13.6	12.5
162.5°	3.4	3.4	3.4	4.5	5.7	6.8	8.0	8.0	8.0	8.0	6.8
165°	2.3	2.3	2.3	2.3	2.3	3.4	4.5	4.5	4.5	4.5	4.5
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: 4SNLED-LD5-58SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1078.3	1078.3	1078.3	1078.3	1078.3	1078.3	1078.3	1078.3	1078.3	1078.3	1078.3
2.5°	1072.7	1072.7	1073.8	1071.5	1064.7	1065.8	1065.8	1070.4	1072.7	1073.8	1079.5
5°	1070.4	1070.4	1072.7	1069.2	1063.6	1063.6	1063.6	1068.1	1069.2	1071.5	1076.1
7.5°	1067.0	1067.0	1068.1	1064.7	1057.9	1057.9	1056.7	1061.3	1063.6	1064.7	1069.2
10°	1061.3	1061.3	1062.4	1059.0	1051.0	1051.0	1049.9	1053.3	1054.5	1056.7	1060.1
12.5°	1053.3	1053.3	1053.3	1049.9	1041.9	1040.8	1039.7	1043.1	1043.1	1044.2	1047.6
15°	1046.5	1044.2	1044.2	1040.8	1032.8	1030.6	1028.3	1029.4	1031.7	1030.6	1032.8
17.5°	1038.5	1036.3	1034.0	1030.6	1020.3	1016.9	1014.6	1015.8	1014.6	1013.5	1015.8
20°	1029.4	1026.0	1024.9	1019.2	1009.0	1003.3	998.7	996.4	997.6	994.2	995.3
22.5°	1019.2	1014.6	1012.4	1005.5	995.3	988.5	982.8	978.2	977.1	972.6	973.7
25°	1006.7	1001.0	997.6	991.9	980.5	972.6	965.7	958.9	955.5	949.8	948.7
27.5°	991.9	986.2	981.7	976.0	964.6	954.4	946.4	937.3	932.7	925.9	922.5
30°	977.1	970.3	963.5	958.9	946.4	935.0	922.5	914.5	907.7	899.8	894.1
32.5°	958.9	952.1	945.3	938.4	927.1	913.4	903.2	890.7	882.7	873.6	866.8
35°	940.7	931.6	924.8	915.7	905.4	889.5	877.0	864.5	854.3	844.0	836.1
37.5°	920.2	913.4	903.2	895.2	882.7	866.8	853.1	837.2	828.1	814.4	804.2
40°	900.9	892.9	882.7	872.5	859.9	841.7	827.0	808.8	798.5	782.6	772.4
42.5°	881.6	870.2	859.9	848.6	834.9	817.9	799.7	781.5	767.8	753.0	738.2
45°	859.9	847.4	834.9	822.4	808.8	791.7	772.4	753.0	736.0	722.3	704.1
47.5°	837.2	824.7	809.9	796.2	781.5	764.4	743.9	723.4	705.2	689.3	670.0
50°	814.4	801.9	786.0	771.2	754.2	737.1	715.5	691.6	672.3	651.8	634.7
52.5°	790.6	778.0	763.3	743.9	725.7	708.7	685.9	660.9	639.3	622.2	600.6
55°	766.7	754.2	737.1	717.8	699.6	677.9	656.3	631.3	607.4	586.9	565.3
57.5°	741.6	730.3	710.9	695.0	672.3	649.5	626.8	602.9	576.7	552.8	527.8
60°	716.6	704.1	685.9	666.6	643.8	621.1	597.2	571.0	543.7	517.6	494.8
62.5°	693.9	677.9	660.9	640.4	616.5	594.9	567.6	539.2	511.9	484.6	457.3
65°	667.7	650.6	634.7	614.2	589.2	564.2	536.9	508.5	478.9	449.3	422.0
67.5°	641.5	624.5	607.4	586.9	560.8	534.6	506.2	477.7	444.8	416.3	384.5
70°	615.4	601.7	580.1	558.5	534.6	506.2	477.7	447.0	412.9	382.2	349.2
72.5°	589.2	575.6	554.0	531.2	508.5	478.9	448.2	417.5	385.6	350.3	315.1
75°	564.2	547.1	527.8	506.2	482.3	451.6	420.9	389.0	351.5	318.5	282.1
77.5°	540.3	524.4	505.0	481.2	455.0	425.4	393.6	360.6	323.0	287.8	248.0
80°	514.1	498.2	478.9	455.0	428.8	400.4	366.3	332.1	295.7	257.1	216.1
82.5°	489.1	474.3	452.7	431.1	402.7	374.2	340.1	306.0	267.3	229.8	190.0
85°	463.0	448.2	427.7	404.9	377.6	346.9	315.1	281.0	242.3	203.6	163.8
87.5°	440.2	423.1	402.7	379.9	352.6	323.0	292.3	255.9	218.4	180.9	139.9
90°	416.3	400.4	379.9	357.2	329.9	300.3	268.4	234.3	197.9	159.2	120.6
92.5°	395.8	378.8	359.4	336.7	309.4	281.0	249.1	215.0	179.7	142.2	104.6
95°	375.4	358.3	340.1	317.4	290.1	261.6	229.8	196.8	162.7	126.3	91.0
97.5°	352.6	337.8	319.6	298.0	270.7	243.4	212.7	180.9	147.9	112.6	79.6
100°	334.4	317.4	300.3	277.5	252.5	226.4	195.6	164.9	133.1	100.1	69.4
102.5°	313.9	298.0	281.0	259.3	234.3	208.2	179.7	150.1	120.6	89.9	60.3
105°	294.6	279.8	261.6	241.1	217.3	192.2	164.9	137.6	109.2	79.6	53.5
107.5°	275.3	260.5	243.4	224.1	201.3	176.3	151.3	124.0	97.8	71.7	47.8
110°	255.9	242.3	226.4	207.0	185.4	162.7	138.8	113.7	87.6	63.7	42.1



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-58SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	238.9	225.2	209.3	191.1	170.6	149.0	126.3	102.4	78.5	56.9	36.4
115°	221.8	209.3	193.4	177.4	157.0	136.5	114.9	92.1	70.5	51.2	31.8
117.5°	204.7	192.2	177.4	161.5	143.3	124.0	103.5	81.9	63.7	45.5	28.4
120°	187.7	176.3	162.7	147.9	131.9	112.6	92.1	73.9	56.9	39.8	25.0
122.5°	171.8	161.5	149.0	135.4	118.3	100.1	83.0	67.1	51.2	35.3	20.5
125°	157.0	146.7	135.4	121.7	105.8	89.9	75.1	60.3	44.4	30.7	17.1
127.5°	142.2	131.9	120.6	108.1	95.5	80.8	67.1	53.5	39.8	27.3	14.8
130°	127.4	118.3	108.1	97.8	85.3	71.7	60.3	46.6	34.1	21.6	12.5
132.5°	112.6	105.8	96.7	86.4	75.1	64.8	52.3	40.9	29.6	19.3	11.4
135°	100.1	93.3	85.3	76.2	67.1	56.9	45.5	35.3	25.0	15.9	9.1
137.5°	88.7	83.0	75.1	67.1	59.1	48.9	39.8	29.6	20.5	13.6	6.8
140°	78.5	72.8	66.0	58.0	51.2	42.1	33.0	23.9	18.2	11.4	5.7
142.5°	68.2	62.6	56.9	50.0	43.2	35.3	27.3	20.5	14.8	9.1	5.7
145°	58.0	53.5	47.8	42.1	35.3	28.4	22.7	17.1	11.4	6.8	4.5
147.5°	47.8	44.4	38.7	34.1	28.4	22.7	18.2	13.6	9.1	5.7	3.4
150°	38.7	35.3	30.7	26.2	22.7	18.2	14.8	10.2	6.8	5.7	3.4
152.5°	29.6	27.3	23.9	21.6	18.2	13.6	10.2	8.0	5.7	4.5	2.3
155°	23.9	21.6	19.3	15.9	13.6	10.2	8.0	5.7	4.5	3.4	2.3
157.5°	17.1	15.9	13.6	11.4	9.1	6.8	5.7	5.7	3.4	2.3	1.1
160°	11.4	10.2	9.1	6.8	5.7	5.7	4.5	3.4	2.3	2.3	1.1
162.5°	6.8	5.7	5.7	5.7	4.5	4.5	3.4	2.3	2.3	1.1	1.1
165°	4.5	4.5	4.5	3.4	3.4	3.4	2.3	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: 4SNLED-LD5-58SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1078.3	1078.3	1078.3	1078.3	1078.3	1078.3	1078.3	1078.3	1078.3	1078.3	1078.3
2.5°	1079.5	1076.1	1080.6	1088.6	1089.7	1088.6	1086.3	1089.7	1094.3	1093.1	1085.2
5°	1077.2	1072.7	1077.2	1085.2	1085.2	1084.0	1082.9	1086.3	1090.9	1089.7	1082.9
7.5°	1070.4	1065.8	1070.4	1077.2	1078.3	1076.1	1076.1	1079.5	1084.0	1082.9	1077.2
10°	1061.3	1056.7	1059.0	1067.0	1069.2	1067.0	1067.0	1070.4	1076.1	1074.9	1068.1
12.5°	1047.6	1044.2	1046.5	1053.3	1055.6	1054.5	1053.3	1057.9	1063.6	1063.6	1056.7
15°	1032.8	1028.3	1030.6	1038.5	1039.7	1037.4	1038.5	1041.9	1048.8	1048.8	1043.1
17.5°	1015.8	1010.1	1013.5	1019.2	1020.3	1020.3	1020.3	1024.9	1032.8	1031.7	1027.2
20°	996.4	988.5	990.8	996.4	998.7	998.7	998.7	1006.7	1012.4	1012.4	1007.8
22.5°	973.7	968.0	968.0	973.7	977.1	976.0	976.0	982.8	990.8	989.6	989.6
25°	947.5	943.0	940.7	947.5	948.7	949.8	952.1	958.9	968.0	968.0	969.1
27.5°	920.2	915.7	914.5	920.2	921.4	922.5	924.8	932.7	941.8	943.0	945.3
30°	894.1	887.2	885.0	889.5	891.8	892.9	892.9	905.4	913.4	916.8	921.4
32.5°	863.4	856.5	850.8	858.8	859.9	862.2	863.4	875.9	885.0	890.7	897.5
35°	832.6	821.3	819.0	824.7	827.0	828.1	830.4	844.0	856.5	861.1	870.2
37.5°	798.5	790.6	783.7	789.4	791.7	792.8	799.7	812.2	824.7	831.5	840.6
40°	766.7	756.4	750.7	754.2	756.4	757.6	765.5	779.2	794.0	801.9	813.3
42.5°	731.4	717.8	713.2	716.6	717.8	721.2	728.0	746.2	761.0	772.4	781.5
45°	696.1	685.9	675.7	679.1	680.2	682.5	692.7	712.1	728.0	741.6	751.9
47.5°	659.7	647.2	637.0	639.3	643.8	645.0	656.3	679.1	693.9	708.7	722.3
50°	623.3	606.3	598.3	598.3	600.6	606.3	621.1	643.8	659.7	676.8	691.6
52.5°	585.8	569.9	560.8	561.9	564.2	571.0	584.7	607.4	625.6	643.8	662.0
55°	548.3	531.2	522.1	519.8	522.1	531.2	547.1	571.0	589.2	610.8	630.2
57.5°	510.7	490.3	482.3	478.9	481.2	492.5	508.5	533.5	556.2	576.7	599.5
60°	469.8	453.9	440.2	432.2	437.9	452.7	469.8	495.9	519.8	542.6	567.6
62.5°	434.5	414.0	399.3	391.3	397.0	409.5	433.4	458.4	484.6	510.7	535.8
65°	394.7	374.2	357.2	349.2	354.9	369.7	393.6	420.9	449.3	475.5	505.0
67.5°	356.0	334.4	313.9	306.0	312.8	328.7	354.9	385.6	416.3	443.6	475.5
70°	318.5	294.6	273.0	267.3	271.9	293.5	318.5	349.2	381.1	412.9	445.9
72.5°	284.4	254.8	232.0	225.2	230.9	254.8	283.2	315.1	349.2	383.3	418.6
75°	244.6	217.3	192.2	184.3	191.1	212.7	248.0	282.1	318.5	354.9	387.9
77.5°	212.7	180.9	154.7	142.2	153.6	180.9	215.0	251.4	288.9	326.5	364.0
80°	179.7	146.7	118.3	104.6	117.2	146.7	180.9	220.7	262.8	300.3	334.4
82.5°	150.1	114.9	85.3	70.5	84.2	117.2	154.7	194.5	235.5	273.0	312.8
85°	122.8	86.4	55.7	39.8	59.1	88.7	128.5	169.5	211.6	250.2	288.9
87.5°	100.1	64.8	34.1	17.1	36.4	69.4	106.9	147.9	190.0	228.6	265.0
90°	81.9	46.6	18.2	2.3	21.6	52.3	88.7	128.5	168.3	208.2	244.6
92.5°	67.1	35.3	10.2	1.1	13.6	42.1	76.2	113.7	152.4	191.1	226.4
95°	55.7	27.3	6.8	1.1	10.2	33.0	64.8	101.2	137.6	175.2	210.4
97.5°	47.8	22.7	5.7	1.1	8.0	28.4	55.7	89.9	125.1	160.4	194.5
100°	40.9	18.2	4.5	1.1	6.8	23.9	48.9	79.6	112.6	146.7	179.7
102.5°	35.3	14.8	3.4	1.1	5.7	20.5	43.2	71.7	101.2	134.2	166.1
105°	30.7	12.5	3.4	1.1	4.5	18.2	38.7	63.7	93.3	122.8	153.6
107.5°	26.2	10.2	2.3	1.1	3.4	14.8	34.1	58.0	84.2	112.6	141.0
110°	22.7	9.1	2.3	1.1	3.4	13.6	29.6	52.3	76.2	102.4	129.7



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-58SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	19.3	6.8	2.3	1.1	2.3	11.4	26.2	46.6	69.4	93.3	119.4
115°	17.1	5.7	1.1	1.1	2.3	10.2	23.9	42.1	62.6	85.3	109.2
117.5°	13.6	4.5	1.1	1.1	1.1	8.0	20.5	37.5	56.9	78.5	100.1
120°	11.4	4.5	1.1	1.1	1.1	6.8	18.2	33.0	51.2	70.5	91.0
122.5°	10.2	3.4	1.1	1.1	1.1	5.7	15.9	29.6	45.5	63.7	83.0
125°	9.1	3.4	1.1	1.1	1.1	4.5	13.6	26.2	40.9	56.9	75.1
127.5°	6.8	3.4	1.1	1.1	1.1	3.4	12.5	22.7	36.4	51.2	67.1
130°	5.7	2.3	1.1	1.1	1.1	3.4	10.2	20.5	31.8	45.5	60.3
132.5°	4.5	2.3	1.1	1.1	1.1	2.3	8.0	15.9	27.3	39.8	53.5
135°	4.5	2.3	1.1	1.1	1.1	2.3	5.7	13.6	22.7	34.1	45.5
137.5°	4.5	1.1	1.1	1.1	1.1	2.3	4.5	10.2	18.2	27.3	37.5
140°	3.4	1.1	1.1	1.1	1.1	1.1	3.4	8.0	14.8	22.7	31.8
142.5°	3.4	1.1	1.1	1.1	1.1	1.1	3.4	5.7	11.4	18.2	25.0
145°	2.3	1.1	1.1	1.1	1.1	1.1	2.3	4.5	9.1	13.6	20.5
147.5°	2.3	1.1	1.1	1.1	1.1	1.1	2.3	3.4	6.8	11.4	15.9
150°	2.3	1.1	1.1	1.1	1.1	1.1	2.3	3.4	4.5	8.0	12.5
152.5°	1.1	1.1	1.1	1.1	1.1	1.1	2.3	2.3	3.4	5.7	8.0
155°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.3	3.4	4.5	5.7
157.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.3	2.3	3.4	4.5
160°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.3	2.3	3.4
162.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.3	2.3
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: 4SNLED-LD5-58SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1078.3	1078.3	1078.3	1078.3	1078.3	1078.3	1078.3	1078.3	1078.3	1078.3	1078.3
2.5°	1081.8	1073.8	1076.1	1074.9	1077.2	1080.6	1080.6	1079.5	1079.5	1077.2	1074.9
5°	1079.5	1071.5	1074.9	1073.8	1076.1	1079.5	1079.5	1078.3	1078.3	1074.9	1073.8
7.5°	1072.7	1067.0	1069.2	1069.2	1071.5	1074.9	1074.9	1073.8	1073.8	1070.4	1069.2
10°	1065.8	1059.0	1062.4	1062.4	1064.7	1069.2	1069.2	1068.1	1068.1	1064.7	1063.6
12.5°	1054.5	1047.6	1053.3	1054.5	1056.7	1061.3	1060.1	1060.1	1060.1	1056.7	1055.6
15°	1040.8	1036.3	1041.9	1043.1	1046.5	1052.2	1052.2	1052.2	1052.2	1048.8	1047.6
17.5°	1026.0	1022.6	1028.3	1030.6	1035.1	1040.8	1040.8	1041.9	1043.1	1040.8	1039.7
20°	1009.0	1006.7	1012.4	1016.9	1023.7	1029.4	1031.7	1032.8	1035.1	1032.8	1031.7
22.5°	989.6	989.6	997.6	1002.1	1010.1	1015.8	1019.2	1022.6	1024.9	1022.6	1021.5
25°	968.0	971.4	979.4	987.3	996.4	1002.1	1005.5	1010.1	1012.4	1011.2	1010.1
27.5°	947.5	952.1	962.3	970.3	978.2	987.3	990.8	996.4	998.7	998.7	997.6
30°	923.6	930.5	941.8	950.9	961.2	970.3	974.8	980.5	983.9	981.7	982.8
32.5°	900.9	912.3	921.4	931.6	943.0	952.1	957.8	964.6	968.0	966.9	968.0
35°	875.9	887.2	899.8	910.0	923.6	932.7	940.7	946.4	950.9	949.8	949.8
37.5°	848.6	863.4	875.9	889.5	902.0	912.3	920.2	927.1	931.6	931.6	931.6
40°	822.4	838.3	850.8	866.8	882.7	891.8	900.9	907.7	912.3	913.4	914.5
42.5°	794.0	811.0	825.8	842.9	858.8	870.2	880.4	888.4	892.9	895.2	894.1
45°	767.8	783.7	800.8	820.1	834.9	846.3	858.8	867.9	872.5	873.6	874.7
47.5°	738.2	756.4	775.8	795.1	809.9	824.7	836.1	845.2	849.7	853.1	853.1
50°	709.8	729.1	750.7	771.2	787.1	801.9	813.3	823.5	829.2	831.5	832.6
52.5°	683.6	701.8	724.6	745.1	761.0	775.8	790.6	801.9	807.6	809.9	809.9
55°	651.8	674.5	699.6	718.9	736.0	753.0	767.8	779.2	784.9	788.3	790.6
57.5°	622.2	646.1	672.3	692.7	713.2	729.1	742.8	757.6	762.1	766.7	767.8
60°	593.8	617.7	642.7	665.4	685.9	703.0	718.9	731.4	739.4	741.6	743.9
62.5°	564.2	589.2	615.4	638.1	659.7	680.2	695.0	706.4	715.5	718.9	721.2
65°	535.8	561.9	588.1	612.0	634.7	655.2	670.0	681.4	690.5	696.1	697.3
67.5°	505.0	533.5	560.8	585.8	608.6	630.2	645.0	656.3	665.4	672.3	673.4
70°	476.6	506.2	533.5	560.8	583.5	605.1	621.1	632.4	642.7	647.2	649.5
72.5°	449.3	480.0	508.5	535.8	558.5	580.1	597.2	608.6	618.8	624.5	625.6
75°	423.1	453.9	484.6	510.7	534.6	556.2	573.3	585.8	594.9	600.6	602.9
77.5°	397.0	428.8	459.5	485.7	510.7	532.3	547.1	561.9	571.0	577.8	577.8
80°	370.8	403.8	435.7	461.8	486.8	506.2	523.2	538.0	547.1	554.0	554.0
82.5°	348.1	379.9	410.6	436.8	461.8	483.4	500.5	514.1	524.4	528.9	530.1
85°	321.9	357.2	385.6	414.0	437.9	458.4	475.5	490.3	499.4	503.9	506.2
87.5°	300.3	334.4	365.1	390.2	414.0	434.5	453.9	466.4	475.5	481.2	483.4
90°	279.8	312.8	343.5	368.5	393.6	412.9	431.1	443.6	453.9	458.4	460.7
92.5°	261.6	294.6	324.2	349.2	373.1	394.7	411.8	424.3	433.4	437.9	441.3
95°	244.6	276.4	304.8	332.1	354.9	374.2	392.4	404.9	415.2	418.6	422.0
97.5°	227.5	258.2	286.6	312.8	336.7	354.9	372.0	384.5	392.4	398.1	401.5
100°	212.7	242.3	269.6	294.6	317.4	334.4	352.6	364.0	372.0	376.5	381.1
102.5°	196.8	226.4	252.5	276.4	300.3	316.2	333.3	344.7	351.5	359.4	359.4
105°	183.1	210.4	236.6	259.3	279.8	299.2	313.9	325.3	333.3	339.0	339.0
107.5°	168.3	195.6	220.7	244.6	263.9	282.1	295.7	306.0	315.1	318.5	321.9
110°	157.0	180.9	205.9	228.6	246.8	263.9	277.5	288.9	296.9	300.3	302.6



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-58SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	143.3	168.3	191.1	212.7	230.9	246.8	260.5	269.6	277.5	282.1	283.2
115°	131.9	155.8	176.3	196.8	216.1	229.8	242.3	251.4	259.3	262.8	265.0
117.5°	121.7	143.3	163.8	180.9	199.1	213.8	226.4	234.3	241.1	245.7	248.0
120°	111.5	131.9	150.1	167.2	184.3	197.9	209.3	217.3	225.2	228.6	228.6
122.5°	101.2	120.6	137.6	153.6	169.5	182.0	194.5	201.3	208.2	211.6	211.6
125°	92.1	110.3	126.3	141.0	155.8	167.2	177.4	185.4	192.2	194.5	194.5
127.5°	83.0	100.1	114.9	128.5	141.0	152.4	162.7	170.6	176.3	178.6	178.6
130°	75.1	89.9	103.5	117.2	129.7	138.8	149.0	155.8	159.2	162.7	163.8
132.5°	67.1	80.8	93.3	104.6	117.2	126.3	134.2	141.0	144.5	147.9	149.0
135°	59.1	71.7	83.0	94.4	104.6	113.7	120.6	126.3	130.8	133.1	134.2
137.5°	50.0	63.7	73.9	83.0	94.4	101.2	109.2	112.6	117.2	119.4	119.4
140°	42.1	52.3	63.7	72.8	81.9	88.7	95.5	101.2	104.6	105.8	105.8
142.5°	34.1	43.2	52.3	63.7	71.7	77.3	84.2	88.7	91.0	92.1	93.3
145°	27.3	34.1	42.1	52.3	61.4	68.2	71.7	76.2	78.5	79.6	80.8
147.5°	20.5	27.3	34.1	40.9	50.0	56.9	60.3	64.8	67.1	68.2	68.2
150°	15.9	20.5	25.0	31.8	38.7	46.6	51.2	54.6	55.7	56.9	56.9
152.5°	11.4	15.9	19.3	23.9	28.4	35.3	42.1	44.4	45.5	46.6	46.6
155°	8.0	11.4	13.6	17.1	20.5	26.2	31.8	35.3	36.4	37.5	37.5
157.5°	5.7	8.0	9.1	12.5	14.8	17.1	21.6	27.3	28.4	28.4	28.4
160°	3.4	4.5	5.7	8.0	9.1	11.4	13.6	17.1	20.5	20.5	20.5
162.5°	2.3	3.4	3.4	4.5	4.5	6.8	8.0	9.1	12.5	13.6	13.6
165°	1.1	2.3	2.3	2.3	2.3	2.3	3.4	3.4	5.7	6.8	6.8
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: 4SNLED-LD5-58SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1078.3	1078.3	1078.3	1078.3	1078.3	1078.3	1078.3	1078.3	1078.3	1078.3	1078.3
2.5°	1076.1	1078.3	1077.2	1077.2	1077.2	1079.5	1077.2	1067.0	1069.2	1071.5	1073.8
5°	1074.9	1076.1	1076.1	1074.9	1074.9	1077.2	1074.9	1064.7	1067.0	1069.2	1070.4
7.5°	1070.4	1071.5	1071.5	1071.5	1070.4	1072.7	1069.2	1060.1	1060.1	1062.4	1063.6
10°	1064.7	1067.0	1065.8	1064.7	1064.7	1064.7	1062.4	1052.2	1052.2	1053.3	1054.5
12.5°	1057.9	1057.9	1057.9	1056.7	1055.6	1055.6	1053.3	1043.1	1041.9	1044.2	1043.1
15°	1048.8	1051.0	1048.8	1047.6	1045.4	1045.4	1041.9	1031.7	1029.4	1030.6	1029.4
17.5°	1040.8	1041.9	1039.7	1037.4	1035.1	1034.0	1030.6	1019.2	1015.8	1016.9	1014.6
20°	1032.8	1032.8	1030.6	1028.3	1024.9	1021.5	1016.9	1005.5	999.9	999.9	995.3
22.5°	1022.6	1022.6	1020.3	1016.9	1013.5	1009.0	1004.4	993.0	983.9	981.7	978.2
25°	1011.2	1010.1	1009.0	1005.5	998.7	994.2	989.6	977.1	966.9	962.3	956.6
27.5°	997.6	997.6	994.2	990.8	983.9	978.2	972.6	961.2	947.5	941.8	933.9
30°	982.8	982.8	979.4	974.8	968.0	961.2	954.4	940.7	927.1	919.1	910.0
32.5°	968.0	966.9	963.5	958.9	952.1	941.8	936.2	922.5	906.6	897.5	885.0
35°	949.8	948.7	945.3	939.6	930.5	922.5	913.4	900.9	882.7	871.3	857.7
37.5°	931.6	930.5	928.2	920.2	911.1	902.0	890.7	878.1	861.1	846.3	832.6
40°	913.4	912.3	907.7	902.0	890.7	879.3	867.9	855.4	837.2	820.1	805.3
42.5°	894.1	892.9	887.2	880.4	867.9	856.5	842.9	829.2	811.0	790.6	775.8
45°	874.7	872.5	866.8	858.8	845.2	832.6	819.0	803.1	784.9	765.5	746.2
47.5°	854.3	850.8	845.2	833.8	822.4	808.8	792.8	775.8	757.6	736.0	715.5
50°	831.5	829.2	822.4	812.2	798.5	784.9	766.7	749.6	728.0	707.5	682.5
52.5°	809.9	805.3	799.7	788.3	774.6	759.8	740.5	720.0	698.4	679.1	652.9
55°	787.1	784.9	776.9	767.8	750.7	733.7	715.5	693.9	670.0	647.2	622.2
57.5°	765.5	761.0	754.2	741.6	726.9	709.8	690.5	667.7	641.5	617.7	590.4
60°	743.9	737.1	729.1	717.8	701.8	683.6	663.2	639.3	613.1	586.9	558.5
62.5°	720.0	714.3	705.2	693.9	677.9	658.6	637.0	612.0	586.9	559.6	528.9
65°	696.1	690.5	681.4	670.0	654.1	632.4	609.7	584.7	556.2	530.1	497.1
67.5°	672.3	666.6	656.3	643.8	627.9	607.4	583.5	557.4	528.9	500.5	466.4
70°	648.4	641.5	632.4	618.8	602.9	581.3	557.4	530.1	501.6	470.9	436.8
72.5°	624.5	618.8	607.4	594.9	577.8	556.2	532.3	505.0	475.5	443.6	409.5
75°	600.6	593.8	585.8	571.0	552.8	532.3	507.3	480.0	448.2	417.5	382.2
77.5°	576.7	571.0	560.8	546.0	528.9	507.3	482.3	455.0	423.1	391.3	353.8
80°	552.8	546.0	538.0	524.4	505.0	483.4	457.3	430.0	398.1	365.1	327.6
82.5°	528.9	522.1	513.0	499.4	481.2	459.5	434.5	404.9	373.1	339.0	303.7
85°	505.0	499.4	489.1	475.5	456.1	434.5	409.5	383.3	349.2	315.1	279.8
87.5°	481.2	475.5	465.2	451.6	433.4	411.8	386.7	359.4	326.5	294.6	255.9
90°	458.4	453.9	443.6	430.0	411.8	390.2	367.4	337.8	306.0	274.1	237.7
92.5°	437.9	433.4	424.3	410.6	394.7	370.8	348.1	319.6	287.8	254.8	219.5
95°	419.7	414.0	404.9	392.4	373.1	352.6	329.9	301.4	270.7	237.7	203.6
97.5°	399.3	393.6	384.5	370.8	354.9	333.3	310.5	283.2	252.5	221.8	187.7
100°	378.8	373.1	362.9	351.5	335.6	313.9	292.3	265.0	236.6	207.0	174.0
102.5°	358.3	352.6	343.5	332.1	316.2	296.9	275.3	249.1	220.7	191.1	160.4
105°	339.0	333.3	324.2	312.8	298.0	278.7	255.9	233.2	205.9	177.4	147.9
107.5°	319.6	313.9	306.0	294.6	279.8	261.6	240.0	216.1	191.1	163.8	135.4
110°	300.3	295.7	286.6	276.4	261.6	243.4	224.1	201.3	176.3	151.3	124.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-58SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	282.1	277.5	268.4	257.1	244.6	227.5	208.2	186.5	162.7	138.8	112.6
115°	263.9	258.2	250.2	240.0	227.5	211.6	193.4	174.0	150.1	127.4	103.5
117.5°	245.7	241.1	233.2	222.9	211.6	195.6	178.6	160.4	137.6	116.0	94.4
120°	227.5	224.1	216.1	207.0	195.6	180.9	164.9	146.7	126.3	105.8	85.3
122.5°	210.4	207.0	199.1	191.1	179.7	166.1	151.3	134.2	116.0	96.7	78.5
125°	194.5	190.0	183.1	175.2	164.9	152.4	137.6	121.7	104.6	87.6	70.5
127.5°	177.4	174.0	169.5	160.4	150.1	138.8	125.1	111.5	95.5	79.6	63.7
130°	163.8	159.2	153.6	146.7	137.6	126.3	113.7	100.1	86.4	71.7	55.7
132.5°	147.9	143.3	138.8	131.9	124.0	113.7	102.4	89.9	77.3	63.7	50.0
135°	133.1	129.7	125.1	118.3	110.3	102.4	91.0	79.6	68.2	55.7	44.4
137.5°	119.4	116.0	111.5	106.9	99.0	91.0	80.8	70.5	60.3	48.9	38.7
140°	105.8	103.5	99.0	94.4	87.6	79.6	70.5	61.4	52.3	42.1	33.0
142.5°	92.1	89.9	86.4	81.9	76.2	69.4	61.4	53.5	44.4	36.4	28.4
145°	79.6	78.5	75.1	70.5	66.0	59.1	52.3	45.5	37.5	30.7	22.7
147.5°	67.1	66.0	63.7	60.3	55.7	50.0	44.4	37.5	31.8	25.0	18.2
150°	55.7	54.6	53.5	48.9	46.6	40.9	36.4	30.7	26.2	19.3	14.8
152.5°	45.5	45.5	43.2	39.8	37.5	33.0	29.6	25.0	20.5	15.9	11.4
155°	36.4	35.3	34.1	31.8	29.6	26.2	22.7	19.3	15.9	11.4	8.0
157.5°	28.4	27.3	26.2	23.9	21.6	20.5	17.1	13.6	10.2	8.0	5.7
160°	20.5	19.3	18.2	17.1	15.9	13.6	11.4	9.1	6.8	4.5	3.4
162.5°	13.6	12.5	12.5	11.4	10.2	8.0	6.8	5.7	4.5	3.4	2.3
165°	6.8	6.8	5.7	5.7	4.5	3.4	3.4	3.4	2.3	2.3	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: 4SNLED-LD5-58SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1078.3	1078.3	1078.3	1078.3	1078.3	1078.3	1078.3
2.5°	1072.7	1072.7	1077.2	1076.1	1072.7	1079.5	1087.4
5°	1069.2	1069.2	1072.7	1072.7	1069.2	1076.1	1082.9
7.5°	1063.6	1062.4	1065.8	1065.8	1061.3	1067.0	1074.9
10°	1053.3	1052.2	1055.6	1055.6	1051.0	1056.7	1063.6
12.5°	1041.9	1039.7	1043.1	1041.9	1037.4	1043.1	1049.9
15°	1027.2	1026.0	1028.3	1026.0	1021.5	1027.2	1034.0
17.5°	1012.4	1009.0	1010.1	1010.1	1002.1	1007.8	1013.5
20°	993.0	988.5	989.6	988.5	982.8	986.2	993.0
22.5°	973.7	966.9	966.9	965.7	958.9	963.5	969.1
25°	949.8	941.8	941.8	940.7	932.7	936.2	941.8
27.5°	925.9	918.0	914.5	913.4	905.4	905.4	913.4
30°	900.9	889.5	887.2	883.8	875.9	875.9	882.7
32.5°	877.0	861.1	856.5	852.0	844.0	842.9	850.8
35°	845.2	832.6	824.7	820.1	811.0	808.8	815.6
37.5°	819.0	803.1	791.7	786.0	776.9	773.5	782.6
40°	790.6	773.5	758.7	755.3	741.6	737.1	745.1
42.5°	758.7	740.5	725.7	718.9	708.7	704.1	705.2
45°	726.9	707.5	691.6	682.5	672.3	664.3	668.8
47.5°	693.9	676.8	657.5	643.8	631.3	625.6	627.9
50°	660.9	640.4	622.2	607.4	592.6	585.8	590.4
52.5°	627.9	606.3	585.8	569.9	552.8	546.0	547.1
55°	596.0	573.3	549.4	532.3	516.4	506.2	503.9
57.5°	564.2	539.2	514.1	494.8	474.3	465.2	461.8
60°	530.1	503.9	477.7	455.0	433.4	423.1	418.6
62.5°	498.2	469.8	440.2	416.3	394.7	381.1	377.6
65°	467.5	434.5	404.9	377.6	353.8	339.0	334.4
67.5°	434.5	400.4	368.5	339.0	316.2	296.9	294.6
70°	403.8	367.4	332.1	301.4	276.4	257.1	248.0
72.5°	373.1	335.6	299.2	266.2	234.3	216.1	209.3
75°	343.5	304.8	266.2	232.0	196.8	175.2	168.3
77.5°	316.2	276.4	235.5	197.9	164.9	137.6	128.5
80°	290.1	249.1	205.9	167.2	131.9	102.4	92.1
82.5°	262.8	224.1	179.7	138.8	102.4	71.7	59.1
85°	238.9	200.2	155.8	114.9	78.5	45.5	31.8
87.5°	219.5	177.4	137.6	96.7	59.1	26.2	9.1
90°	200.2	159.2	119.4	79.6	44.4	14.8	1.1
92.5°	183.1	144.5	104.6	68.2	34.1	10.2	1.1
95°	167.2	129.7	92.1	56.9	27.3	6.8	1.1
97.5°	152.4	117.2	81.9	48.9	22.7	5.7	1.1
100°	139.9	105.8	72.8	43.2	19.3	4.5	1.1
102.5°	127.4	95.5	64.8	37.5	17.1	3.4	1.1
105°	117.2	86.4	58.0	34.1	14.8	3.4	1.1
107.5°	106.9	78.5	52.3	29.6	12.5	2.3	1.1
110°	96.7	71.7	46.6	26.2	11.4	2.3	1.1



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-58SL-LW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	88.7	64.8	42.1	23.9	9.1	2.3	1.1
115°	80.8	58.0	37.5	20.5	8.0	1.1	1.1
117.5°	72.8	52.3	33.0	18.2	6.8	1.1	1.1
120°	66.0	46.6	29.6	15.9	5.7	1.1	1.1
122.5°	59.1	42.1	26.2	13.6	4.5	1.1	1.1
125°	53.5	37.5	22.7	11.4	3.4	1.1	1.1
127.5°	47.8	33.0	20.5	10.2	3.4	1.1	1.1
130°	42.1	29.6	17.1	8.0	2.3	1.1	1.1
132.5°	37.5	25.0	14.8	6.8	2.3	1.1	1.1
135°	33.0	21.6	12.5	4.5	2.3	1.1	1.1
137.5°	28.4	18.2	10.2	3.4	1.1	1.1	1.1
140°	23.9	15.9	8.0	3.4	1.1	1.1	1.1
142.5°	20.5	12.5	5.7	2.3	1.1	1.1	1.1
145°	15.9	10.2	4.5	2.3	1.1	1.1	1.1
147.5°	12.5	8.0	3.4	2.3	1.1	1.1	1.1
150°	9.1	5.7	3.4	1.1	1.1	1.1	1.1
152.5°	6.8	4.5	2.3	1.1	1.1	1.1	1.1
155°	4.5	3.4	2.3	1.1	1.1	1.1	1.1
157.5°	3.4	2.3	1.1	1.1	1.1	1.1	1.1
160°	2.3	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)