

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-LD5-112SL-LC-UNV-L940-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 (P33518)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNLED-LD5-112SL-LC-UNV-L940-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
CLEAR LENSED
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10111.0 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

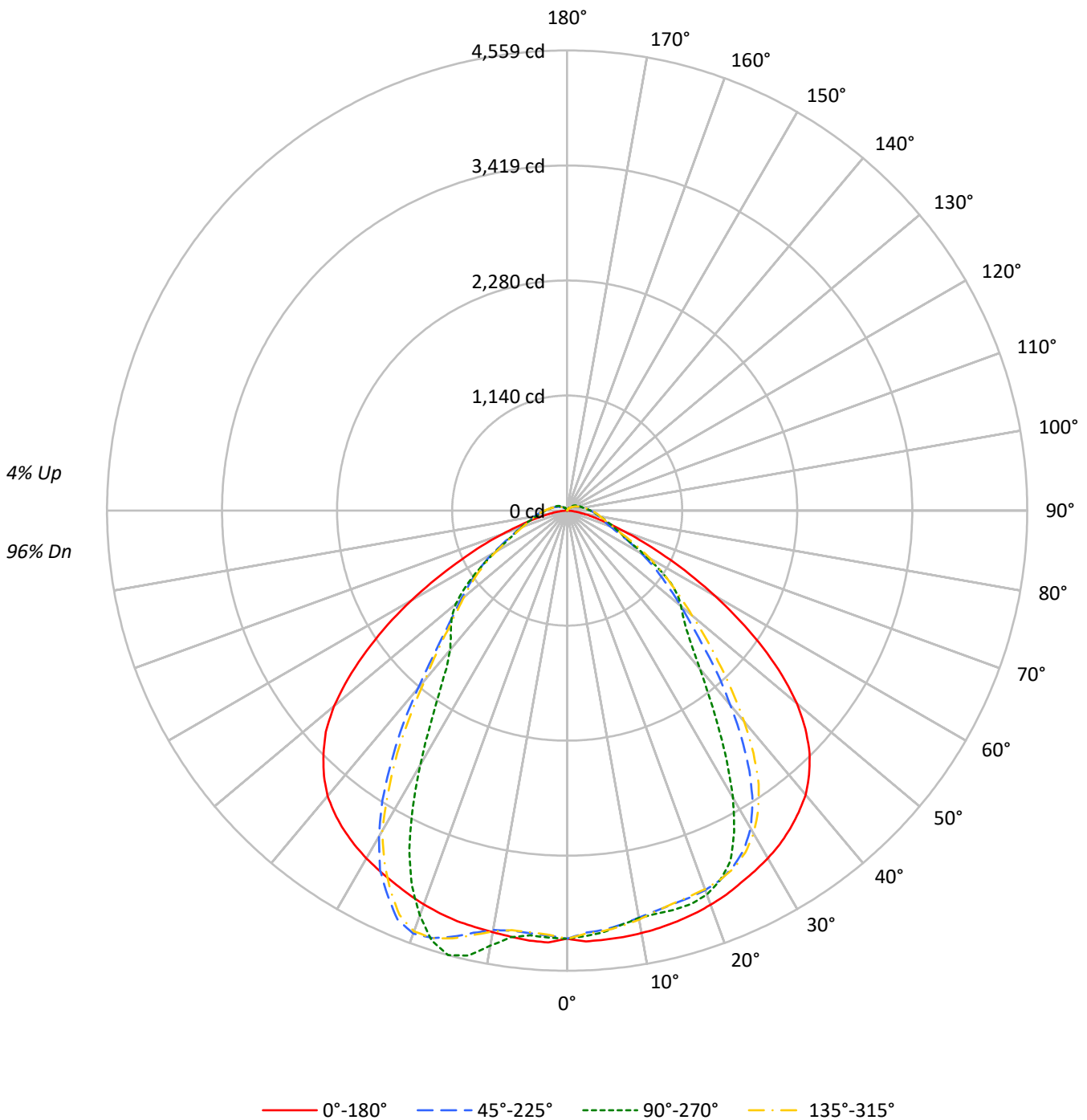
Input Watts (W): 92
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-112SL-LC-UNV-L940-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	115	115	115	115	109	109	109	103	103	103	98	98	98	96				
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	84	82				
2	100	93	86	81	97	90	85	80	86	82	77	82	79	75	79	76	73	71				
3	92	83	75	69	89	81	74	68	77	71	67	74	69	65	71	67	63	61				
4	85	74	66	60	83	73	65	59	70	63	58	67	61	57	64	60	56	54				
5	79	67	59	52	76	66	58	52	63	56	51	61	55	50	59	53	49	47				
6	73	61	52	46	71	60	52	46	57	51	45	55	49	45	54	48	44	42				
7	68	55	47	42	66	54	47	41	53	46	41	51	45	40	49	44	40	38				
8	64	51	43	37	62	50	42	37	48	42	37	47	41	36	45	40	36	34				
9	60	47	39	34	58	46	39	34	45	38	33	43	37	33	42	37	33	31				
10	56	43	36	31	54	43	36	31	42	35	30	40	34	30	39	34	30	28				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	17137	17137	17137	17137
5°	17286	16458	17321	16587
10°	17390	15773	17354	16844
15°	17549	15562	17540	17328
20°	17769	15315	17750	16144
25°	18015	14529	18006	14039
30°	18385	12592	18396	11156
35°	18781	10183	18834	8617
40°	19139	8199	19218	7223
45°	19117	6944	19216	6762
50°	18346	6394	18602	6251
55°	16334	5747	16742	5224
60°	13307	4399	14014	4034
65°	9951	3365	10721	3191
70°	6825	2905	7692	2778
75°	4524	2621	5268	2479
80°	2997	2444	3512	2248
85°	1636	2438	2156	2227



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.9	4.0
10°-20°	1198.7	11.9
20°-30°	1822.3	18.0
30°-40°	1954.9	19.3
40°-50°	1696.7	16.8
50°-60°	1257.4	12.4
60°-70°	720.4	7.1
70°-80°	399.0	3.9
80°-90°	242.9	2.4
90°-100°	158.0	1.6
100°-110°	105.8	1.0
110°-120°	71.5	0.7
120°-130°	43.8	0.4
130°-140°	23.1	0.2
140°-150°	10.5	0.1
150°-160°	3.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3423.9	33.9
0°-40°	5378.9	53.2
0°-60°	8332.9	82.4
0°-90°	9695.3	95.9
90°-120°	335.2	3.3
90°-150°	412.6	4.1
90°-180°	416.0	4.1
0°-180°	10111.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4241	4241	4241	4241	4241	
5°	4268	4191	4276	4224	4268	407
15°	4213	4094	4211	4559	4213	1192
25°	4070	3829	4068	3700	4070	1882
35°	3849	2607	3860	2206	3849	2409
45°	3398	1672	3415	1628	3398	2601
55°	2370	1253	2430	1139	2370	2102
65°	1076	635	1159	602	1076	1084
75°	307	403	357	381	307	350
85°	42	278	55	254	42	55
90°	0	232	4	215	0	2
95°	2	191	0	182	2	1
105°	2	142	2	136	2	2
115°	2	116	2	105	2	2
125°	2	88	2	72	2	2
135°	2	55	2	46	2	2
145°	2	33	4	26	2	2
155°	4	15	4	13	4	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-112SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4241.3	4241.3	4241.3	4241.3	4241.3	4241.3	4241.3	4241.3	4241.3	4241.3	4241.3
2.5°	4272.0	4261.0	4256.6	4247.9	4254.5	4280.7	4263.2	4234.7	4236.9	4186.5	4212.8
5°	4267.6	4254.5	4247.9	4239.1	4243.5	4267.6	4250.1	4221.6	4219.4	4169.0	4193.1
7.5°	4261.0	4247.9	4236.9	4230.4	4232.5	4252.3	4230.4	4197.5	4190.9	4136.2	4158.1
10°	4250.1	4241.3	4226.0	4215.0	4212.8	4234.7	4199.7	4166.8	4151.5	4094.5	4116.4
12.5°	4234.7	4221.6	4206.3	4186.5	4184.3	4197.5	4169.0	4123.0	4107.7	4061.7	4085.8
15°	4212.8	4197.5	4180.0	4158.1	4147.1	4155.9	4120.8	4079.2	4077.0	4037.6	4070.4
17.5°	4188.7	4166.8	4147.1	4116.4	4101.1	4107.7	4079.2	4041.9	4046.3	4022.2	4059.5
20°	4155.9	4131.8	4101.1	4070.4	4048.5	4059.5	4039.8	4011.3	4017.9	4000.3	4033.2
22.5°	4118.6	4085.8	4048.5	4013.5	3995.9	4011.3	3995.9	3971.8	3974.0	3963.1	3982.8
25°	4070.4	4033.2	3989.4	3945.6	3936.8	3947.7	3939.0	3919.3	3910.5	3893.0	3901.7
27.5°	4026.6	3985.0	3930.2	3884.2	3868.9	3890.8	3871.1	3838.2	3814.1	3790.0	3772.5
30°	3976.2	3925.8	3864.5	3811.9	3798.8	3807.5	3779.1	3728.7	3665.1	3634.5	3586.3
32.5°	3921.5	3855.7	3779.1	3719.9	3711.1	3704.6	3652.0	3579.7	3481.1	3419.8	3345.3
35°	3849.2	3776.9	3684.9	3612.6	3599.4	3562.2	3476.7	3380.3	3253.3	3148.1	3021.1
37.5°	3768.1	3682.7	3586.3	3489.9	3452.6	3378.1	3257.7	3156.9	2964.1	2837.0	2683.7
40°	3676.1	3573.1	3454.8	3338.7	3277.4	3156.9	3018.9	2869.9	2683.7	2512.8	2383.5
42.5°	3549.0	3439.5	3299.3	3170.0	3064.9	2904.9	2742.8	2532.5	2361.6	2217.0	2085.6
45°	3397.9	3266.4	3104.3	2948.8	2815.1	2624.5	2433.9	2223.6	2081.2	1912.5	1822.7
47.5°	3202.9	3060.5	2887.4	2714.3	2539.1	2328.8	2129.4	1927.9	1785.5	1665.0	1599.3
50°	2972.9	2841.4	2650.8	2444.9	2252.1	2033.0	1833.7	1682.5	1544.5	1470.0	1419.6
52.5°	2688.1	2565.4	2370.4	2146.9	1960.7	1746.0	1564.2	1441.5	1342.9	1288.2	1270.6
55°	2370.4	2263.1	2070.3	1862.1	1671.5	1474.4	1336.4	1229.0	1165.5	1132.6	1134.8
57.5°	2030.8	1947.6	1765.8	1579.5	1399.9	1250.9	1126.0	1040.6	992.4	990.2	996.8
60°	1691.3	1629.9	1472.2	1312.3	1154.5	1034.0	942.0	882.9	852.2	854.4	852.2
62.5°	1367.0	1310.1	1196.2	1064.7	939.8	858.8	775.5	751.4	725.1	723.0	723.0
65°	1075.7	1031.8	939.8	845.6	751.4	698.9	657.2	628.7	609.0	604.6	606.8
67.5°	808.4	790.9	727.3	663.8	604.6	571.8	536.7	530.2	514.8	514.8	519.2
70°	602.5	589.3	554.3	517.0	492.9	471.0	453.5	453.5	451.3	449.1	460.1
72.5°	436.0	438.2	427.2	398.7	396.5	392.1	387.8	394.3	396.5	403.1	416.2
75°	306.7	313.3	313.3	308.9	317.7	328.6	335.2	346.1	359.3	368.0	383.4
77.5°	216.9	216.9	227.8	241.0	258.5	278.2	295.8	311.1	328.6	339.6	352.7
80°	140.2	146.8	164.3	188.4	212.5	238.8	262.9	282.6	300.1	317.7	326.4
82.5°	83.2	94.2	116.1	146.8	177.5	210.3	234.4	258.5	278.2	295.8	302.3
85°	41.6	57.0	83.2	116.1	149.0	184.0	214.7	236.6	258.5	273.8	282.6
87.5°	13.1	30.7	59.2	89.8	124.9	159.9	192.8	216.9	236.6	249.7	258.5
90°	0.0	15.3	41.6	74.5	107.3	142.4	173.1	199.4	219.1	230.0	236.6
92.5°	0.0	8.8	32.9	61.3	92.0	127.1	157.7	181.8	199.4	210.3	214.7
95°	2.2	6.6	24.1	50.4	81.1	113.9	142.4	164.3	181.8	192.8	195.0
97.5°	2.2	4.4	19.7	41.6	70.1	100.8	129.3	151.2	164.3	175.3	177.5
100°	2.2	4.4	15.3	37.2	61.3	89.8	116.1	135.8	151.2	159.9	162.1
102.5°	2.2	2.2	13.1	30.7	54.8	78.9	103.0	122.7	135.8	144.6	149.0
105°	2.2	2.2	11.0	26.3	48.2	70.1	92.0	111.7	122.7	131.4	135.8
107.5°	2.2	2.2	8.8	21.9	41.6	61.3	83.2	98.6	111.7	120.5	124.9
110°	2.2	2.2	6.6	19.7	35.1	54.8	72.3	87.6	100.8	109.5	113.9



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-112SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	2.2	2.2	6.6	17.5	30.7	48.2	63.5	78.9	89.8	98.6	105.2
115°	2.2	2.2	6.6	15.3	28.5	41.6	57.0	70.1	81.1	89.8	96.4
117.5°	2.2	2.2	6.6	13.1	24.1	37.2	50.4	63.5	72.3	81.1	87.6
120°	2.2	2.2	4.4	11.0	21.9	32.9	43.8	54.8	65.7	74.5	81.1
122.5°	2.2	2.2	4.4	11.0	17.5	28.5	39.4	48.2	59.2	65.7	72.3
125°	2.2	2.2	4.4	8.8	15.3	26.3	35.1	43.8	50.4	59.2	65.7
127.5°	2.2	2.2	4.4	8.8	13.1	21.9	30.7	39.4	46.0	52.6	57.0
130°	2.2	2.2	4.4	6.6	11.0	17.5	26.3	32.9	41.6	46.0	50.4
132.5°	2.2	2.2	2.2	6.6	8.8	13.1	19.7	28.5	35.1	41.6	43.8
135°	2.2	2.2	2.2	4.4	8.8	11.0	15.3	21.9	28.5	35.1	39.4
137.5°	2.2	2.2	2.2	4.4	6.6	11.0	13.1	17.5	24.1	28.5	35.1
140°	2.2	2.2	2.2	4.4	6.6	8.8	11.0	15.3	19.7	24.1	28.5
142.5°	2.2	2.2	2.2	4.4	4.4	6.6	8.8	13.1	15.3	19.7	24.1
145°	2.2	2.2	2.2	4.4	4.4	6.6	8.8	11.0	13.1	15.3	19.7
147.5°	2.2	2.2	2.2	4.4	4.4	4.4	6.6	8.8	11.0	13.1	15.3
150°	4.4	4.4	4.4	4.4	4.4	4.4	6.6	6.6	8.8	11.0	13.1
152.5°	4.4	4.4	4.4	4.4	4.4	4.4	6.6	6.6	6.6	8.8	11.0
155°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	6.6	6.6	8.8	8.8
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	4241.3	4241.3	4241.3	4241.3	4241.3	4241.3	4241.3	4241.3	4241.3	4241.3	4241.3
2.5°	4204.1	4208.4	4234.7	4232.5	4228.2	4223.8	4223.8	4219.4	4223.8	4234.7	4230.4
5°	4182.2	4188.7	4208.4	4206.3	4201.9	4199.7	4197.5	4190.9	4195.3	4210.6	4206.3
7.5°	4142.7	4149.3	4166.8	4158.1	4151.5	4155.9	4144.9	4138.3	4147.1	4162.4	4160.2
10°	4101.1	4105.5	4127.4	4123.0	4112.1	4114.2	4103.3	4098.9	4109.9	4118.6	4120.8
12.5°	4072.6	4088.0	4107.7	4105.5	4103.3	4105.5	4094.5	4090.1	4096.7	4105.5	4103.3
15°	4066.0	4085.8	4107.7	4107.7	4109.9	4112.1	4101.1	4094.5	4101.1	4107.7	4105.5
17.5°	4059.5	4083.6	4103.3	4101.1	4103.3	4107.7	4090.1	4085.8	4094.5	4103.3	4098.9
20°	4037.6	4059.5	4072.6	4068.2	4068.2	4070.4	4048.5	4048.5	4061.7	4068.2	4070.4
22.5°	3976.2	4002.5	4002.5	3991.6	3991.6	3982.8	3976.2	3963.1	3978.4	3989.4	3998.1
25°	3884.2	3895.2	3882.0	3857.9	3844.8	3833.8	3803.2	3829.4	3829.4	3862.3	3873.3
27.5°	3755.0	3730.9	3693.6	3643.2	3632.3	3597.2	3577.5	3584.1	3595.0	3641.0	3676.1
30°	3542.5	3470.2	3406.6	3384.7	3336.5	3301.5	3266.4	3283.9	3303.7	3330.0	3402.2
32.5°	3262.0	3191.9	3089.0	3051.7	3001.3	2957.5	2915.9	2942.2	2977.2	2994.8	3073.6
35°	2940.0	2856.7	2762.5	2699.0	2646.4	2622.3	2569.8	2607.0	2644.2	2657.4	2725.3
37.5°	2598.2	2512.8	2429.6	2374.8	2324.4	2309.1	2274.0	2300.3	2328.8	2348.5	2405.5
40°	2274.0	2195.1	2131.6	2094.4	2059.3	2046.2	2033.0	2044.0	2065.9	2081.2	2125.0
42.5°	1995.8	1932.2	1888.4	1866.5	1842.4	1824.9	1827.1	1831.5	1842.4	1875.3	1895.0
45°	1752.6	1715.4	1686.9	1682.5	1667.2	1665.0	1662.8	1671.5	1678.1	1697.8	1713.2
47.5°	1557.6	1542.3	1535.7	1544.5	1551.1	1542.3	1546.7	1557.6	1570.8	1570.8	1568.6
50°	1404.3	1408.7	1417.4	1437.1	1450.3	1454.7	1459.0	1472.2	1474.4	1478.8	1472.2
52.5°	1279.4	1283.8	1307.9	1338.6	1353.9	1360.5	1369.2	1382.4	1382.4	1386.7	1378.0
55°	1152.3	1158.9	1183.0	1213.7	1226.8	1235.6	1244.4	1253.1	1259.7	1268.4	1261.9
57.5°	1012.1	1031.8	1047.2	1055.9	1064.7	1071.3	1077.9	1080.0	1093.2	1095.4	1106.3
60°	863.2	867.5	882.9	880.7	874.1	891.6	882.9	898.2	913.5	933.3	935.5
62.5°	720.8	723.0	733.9	729.5	738.3	736.1	742.7	742.7	753.6	762.4	773.3
65°	609.0	611.2	620.0	620.0	617.8	624.4	630.9	635.3	635.3	641.9	650.7
67.5°	525.8	532.4	541.1	545.5	549.9	549.9	556.5	558.6	563.0	565.2	569.6
70°	468.8	477.6	486.3	490.7	492.9	497.3	499.5	499.5	503.9	506.1	510.4
72.5°	427.2	436.0	442.5	442.5	446.9	449.1	449.1	451.3	453.5	457.9	462.2
75°	392.1	398.7	403.1	400.9	400.9	400.9	403.1	403.1	407.5	411.9	416.2
77.5°	359.3	365.9	365.9	361.5	361.5	361.5	361.5	363.7	365.9	370.2	374.6
80°	335.2	335.2	333.0	333.0	328.6	326.4	326.4	328.6	328.6	333.0	339.6
82.5°	308.9	308.9	306.7	304.5	302.3	300.1	300.1	302.3	304.5	306.7	311.1
85°	284.8	284.8	280.4	280.4	278.2	278.2	278.2	278.2	280.4	282.6	287.0
87.5°	260.7	258.5	256.3	254.1	254.1	254.1	254.1	254.1	256.3	260.7	262.9
90°	236.6	234.4	232.2	232.2	230.0	230.0	232.2	232.2	234.4	236.6	238.8
92.5°	214.7	212.5	210.3	210.3	208.1	208.1	210.3	208.1	212.5	212.5	214.7
95°	195.0	192.8	190.6	190.6	190.6	190.6	190.6	190.6	192.8	192.8	195.0
97.5°	177.5	175.3	173.1	173.1	175.3	173.1	175.3	175.3	175.3	177.5	179.6
100°	162.1	159.9	159.9	162.1	159.9	159.9	162.1	162.1	162.1	162.1	164.3
102.5°	149.0	149.0	149.0	149.0	149.0	149.0	151.2	151.2	151.2	151.2	153.4
105°	135.8	138.0	138.0	138.0	140.2	140.2	140.2	142.4	142.4	142.4	142.4
107.5°	127.1	129.3	129.3	131.4	131.4	133.6	133.6	133.6	133.6	135.8	135.8
110°	118.3	120.5	122.7	124.9	124.9	127.1	127.1	127.1	127.1	127.1	127.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-112SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	109.5	111.7	113.9	118.3	120.5	120.5	120.5	120.5	122.7	122.7	120.5
115°	100.8	105.2	107.3	111.7	113.9	113.9	116.1	116.1	116.1	116.1	113.9
117.5°	92.0	98.6	100.8	105.2	107.3	107.3	109.5	109.5	109.5	109.5	107.3
120°	85.4	89.8	94.2	96.4	98.6	100.8	100.8	103.0	103.0	103.0	100.8
122.5°	78.9	83.2	87.6	89.8	92.0	94.2	94.2	94.2	94.2	94.2	94.2
125°	70.1	74.5	78.9	81.1	83.2	85.4	85.4	87.6	87.6	87.6	85.4
127.5°	63.5	67.9	70.1	74.5	76.7	76.7	78.9	78.9	78.9	78.9	76.7
130°	54.8	59.2	63.5	65.7	67.9	67.9	70.1	70.1	70.1	70.1	70.1
132.5°	48.2	52.6	54.8	59.2	59.2	61.3	61.3	63.5	63.5	63.5	61.3
135°	43.8	46.0	48.2	52.6	52.6	54.8	54.8	54.8	54.8	54.8	54.8
137.5°	39.4	41.6	43.8	46.0	46.0	48.2	48.2	48.2	48.2	50.4	48.2
140°	32.9	37.2	39.4	39.4	41.6	41.6	41.6	43.8	43.8	43.8	41.6
142.5°	28.5	30.7	32.9	35.1	37.2	37.2	37.2	37.2	39.4	37.2	37.2
145°	21.9	26.3	28.5	30.7	32.9	32.9	32.9	32.9	32.9	32.9	32.9
147.5°	17.5	19.7	24.1	26.3	26.3	28.5	28.5	28.5	28.5	28.5	28.5
150°	15.3	15.3	19.7	21.9	24.1	24.1	24.1	24.1	24.1	24.1	24.1
152.5°	11.0	13.1	15.3	17.5	19.7	19.7	19.7	19.7	19.7	19.7	19.7
155°	11.0	11.0	13.1	13.1	15.3	15.3	15.3	15.3	17.5	15.3	15.3
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-112SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	4241.3	4241.3	4241.3	4241.3	4241.3	4241.3	4241.3	4241.3	4241.3	4241.3	4241.3
2.5°	4223.8	4221.6	4230.4	4221.6	4177.8	4195.3	4188.7	4212.8	4215.0	4221.6	4243.5
5°	4201.9	4201.9	4212.8	4204.1	4162.4	4180.0	4177.8	4201.9	4206.3	4210.6	4234.7
7.5°	4158.1	4160.2	4175.6	4169.0	4125.2	4151.5	4149.3	4177.8	4186.5	4195.3	4217.2
10°	4116.4	4114.2	4131.8	4125.2	4083.6	4114.2	4112.1	4140.5	4153.7	4169.0	4195.3
12.5°	4094.5	4088.0	4094.5	4088.0	4041.9	4066.0	4068.2	4101.1	4116.4	4136.2	4166.8
15°	4094.5	4083.6	4083.6	4070.4	4017.9	4033.2	4035.4	4057.3	4077.0	4096.7	4134.0
17.5°	4090.1	4079.2	4077.0	4066.0	4009.1	4009.1	4006.9	4022.2	4033.2	4052.9	4092.3
20°	4066.0	4061.7	4059.5	4052.9	4000.3	3991.6	3987.2	3987.2	3993.8	4000.3	4039.8
22.5°	4002.5	4006.9	4011.3	4015.7	3974.0	3958.7	3960.9	3956.5	3949.9	3949.9	3982.8
25°	3884.2	3906.1	3923.6	3943.4	3919.3	3908.3	3921.5	3914.9	3903.9	3895.2	3923.6
27.5°	3695.8	3741.8	3779.1	3827.3	3829.4	3820.7	3855.7	3851.4	3849.2	3836.0	3857.9
30°	3435.1	3507.4	3557.8	3627.9	3687.0	3695.8	3755.0	3763.7	3772.5	3765.9	3787.8
32.5°	3119.6	3218.2	3303.7	3413.2	3470.2	3520.5	3603.8	3638.8	3673.9	3684.9	3709.0
35°	2775.7	2887.4	2988.2	3108.7	3198.5	3308.0	3408.8	3461.4	3540.3	3570.9	3606.0
37.5°	2449.3	2554.4	2653.0	2773.5	2918.1	3032.0	3156.9	3275.2	3382.5	3426.3	3478.9
40°	2160.1	2245.5	2339.7	2444.9	2576.3	2725.3	2861.1	3025.4	3152.5	3240.1	3316.8
42.5°	1941.0	1982.6	2063.7	2157.9	2263.1	2414.2	2552.2	2736.3	2889.6	3014.5	3141.5
45°	1746.0	1765.8	1824.9	1875.3	1982.6	2116.3	2263.1	2442.7	2602.6	2762.5	2915.9
47.5°	1579.5	1603.6	1632.1	1662.8	1739.5	1851.2	1978.3	2140.4	2300.3	2486.5	2661.8
50°	1467.8	1474.4	1478.8	1491.9	1537.9	1614.6	1717.6	1855.6	2008.9	2208.3	2394.5
52.5°	1369.2	1369.2	1356.1	1349.5	1367.0	1415.2	1474.4	1573.0	1730.7	1914.7	2111.9
55°	1264.1	1244.4	1240.0	1218.1	1222.4	1244.4	1272.8	1349.5	1478.8	1636.5	1827.1
57.5°	1117.3	1108.5	1108.5	1099.8	1082.2	1093.2	1099.8	1154.5	1246.5	1382.4	1548.9
60°	948.6	944.2	955.2	957.4	942.0	948.6	946.4	979.3	1045.0	1154.5	1292.5
62.5°	779.9	799.6	801.8	810.6	801.8	799.6	810.6	839.1	871.9	955.2	1062.5
65°	655.0	666.0	668.2	679.1	674.8	674.8	683.5	705.4	725.1	782.1	865.3
67.5°	574.0	569.6	571.8	578.4	571.8	569.6	576.2	589.3	604.6	639.7	698.9
70°	510.4	506.1	506.1	506.1	497.3	490.7	492.9	497.3	503.9	523.6	560.8
72.5°	462.2	462.2	455.7	449.1	442.5	438.2	433.8	429.4	427.2	433.8	453.5
75°	418.4	420.6	418.4	411.9	403.1	394.3	385.6	376.8	365.9	361.5	363.7
77.5°	379.0	381.2	383.4	381.2	372.4	361.5	348.3	335.2	319.9	304.5	295.8
80°	343.9	348.3	350.5	348.3	341.8	333.0	317.7	302.3	280.4	260.7	238.8
82.5°	313.3	319.9	322.0	322.0	317.7	308.9	291.4	273.8	249.7	223.5	195.0
85°	289.2	293.6	297.9	297.9	295.8	287.0	269.5	249.7	225.6	195.0	164.3
87.5°	265.1	267.3	271.7	276.0	271.7	262.9	247.6	225.6	201.5	170.9	135.8
90°	241.0	243.2	247.6	251.9	249.7	241.0	227.8	208.1	181.8	149.0	113.9
92.5°	216.9	221.3	223.5	225.6	227.8	221.3	210.3	190.6	164.3	131.4	98.6
95°	199.4	199.4	203.7	205.9	208.1	201.5	192.8	173.1	149.0	118.3	85.4
97.5°	181.8	181.8	186.2	186.2	188.4	184.0	175.3	157.7	133.6	105.2	72.3
100°	164.3	166.5	168.7	170.9	170.9	168.7	159.9	142.4	120.5	94.2	63.5
102.5°	153.4	153.4	155.5	155.5	157.7	153.4	144.6	129.3	107.3	83.2	54.8
105°	142.4	142.4	144.6	144.6	142.4	138.0	129.3	116.1	96.4	72.3	48.2
107.5°	133.6	133.6	133.6	133.6	131.4	127.1	118.3	103.0	85.4	65.7	43.8
110°	127.1	124.9	124.9	122.7	120.5	113.9	105.2	92.0	76.7	57.0	37.2



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-112SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	120.5	118.3	116.1	113.9	109.5	103.0	94.2	83.2	67.9	50.4	32.9
115°	113.9	111.7	109.5	105.2	100.8	94.2	85.4	74.5	59.2	43.8	28.5
117.5°	107.3	105.2	100.8	96.4	92.0	85.4	76.7	65.7	52.6	39.4	26.3
120°	98.6	96.4	94.2	89.8	85.4	76.7	67.9	59.2	46.0	35.1	21.9
122.5°	92.0	89.8	85.4	83.2	76.7	70.1	61.3	52.6	41.6	30.7	19.7
125°	83.2	81.1	78.9	74.5	70.1	61.3	54.8	46.0	37.2	26.3	15.3
127.5°	76.7	74.5	70.1	65.7	61.3	54.8	48.2	41.6	32.9	21.9	15.3
130°	67.9	65.7	63.5	59.2	54.8	48.2	43.8	35.1	28.5	19.7	13.1
132.5°	59.2	59.2	57.0	52.6	48.2	43.8	37.2	30.7	24.1	17.5	11.0
135°	54.8	52.6	50.4	46.0	43.8	37.2	32.9	26.3	19.7	15.3	8.8
137.5°	48.2	46.0	43.8	41.6	37.2	32.9	28.5	21.9	17.5	13.1	8.8
140°	41.6	39.4	39.4	35.1	32.9	28.5	24.1	19.7	15.3	11.0	6.6
142.5°	37.2	35.1	32.9	30.7	28.5	24.1	19.7	15.3	13.1	8.8	6.6
145°	32.9	30.7	28.5	26.3	24.1	19.7	17.5	13.1	11.0	8.8	6.6
147.5°	26.3	26.3	24.1	21.9	19.7	17.5	15.3	13.1	8.8	6.6	4.4
150°	21.9	21.9	19.7	17.5	17.5	15.3	13.1	11.0	8.8	6.6	4.4
152.5°	19.7	17.5	17.5	15.3	15.3	13.1	11.0	8.8	6.6	6.6	4.4
155°	15.3	15.3	15.3	13.1	13.1	11.0	8.8	8.8	6.6	4.4	4.4
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-112SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	4241.3	4241.3	4241.3	4241.3	4241.3	4241.3	4241.3	4241.3	4241.3	4241.3	4241.3
2.5°	4247.9	4221.6	4243.5	4282.9	4278.6	4274.2	4269.8	4278.6	4307.0	4291.7	4267.6
5°	4241.3	4215.0	4239.1	4276.4	4274.2	4267.6	4263.2	4272.0	4300.5	4285.1	4258.8
7.5°	4228.2	4204.1	4221.6	4258.8	4258.8	4254.5	4250.1	4258.8	4285.1	4272.0	4245.7
10°	4206.3	4188.7	4206.3	4241.3	4243.5	4234.7	4230.4	4241.3	4267.6	4261.0	4239.1
12.5°	4188.7	4171.2	4190.9	4226.0	4228.2	4219.4	4212.8	4226.0	4261.0	4265.4	4258.8
15°	4164.6	4149.3	4173.4	4210.6	4210.6	4204.1	4204.1	4221.6	4269.8	4289.5	4300.5
17.5°	4129.6	4118.6	4147.1	4184.3	4186.5	4182.2	4184.3	4219.4	4282.9	4331.1	4361.8
20°	4085.8	4081.4	4112.1	4151.5	4158.1	4160.2	4171.2	4223.8	4311.4	4377.1	4407.8
22.5°	4033.2	4035.4	4070.4	4112.1	4120.8	4127.4	4149.3	4223.8	4333.3	4403.4	4416.6
25°	3974.0	3980.6	4017.9	4068.2	4079.2	4092.3	4129.6	4226.0	4339.9	4385.9	4364.0
27.5°	3910.5	3923.6	3971.8	4024.4	4037.6	4059.5	4107.7	4212.8	4309.2	4311.4	4230.4
30°	3844.8	3860.1	3917.1	3978.4	4000.3	4022.2	4081.4	4182.2	4234.7	4164.6	4022.2
32.5°	3770.3	3792.2	3849.2	3923.6	3949.9	3978.4	4037.6	4123.0	4103.3	3952.1	3748.4
35°	3676.1	3706.8	3772.5	3860.1	3884.2	3921.5	3963.1	3982.8	3895.2	3680.5	3450.4
37.5°	3560.0	3606.0	3682.7	3783.4	3809.7	3833.8	3844.8	3790.0	3614.8	3382.5	3143.7
40°	3426.3	3496.5	3579.7	3691.4	3717.7	3717.7	3678.3	3562.2	3340.9	3036.4	2771.3
42.5°	3264.2	3349.7	3454.8	3566.6	3592.8	3562.2	3468.0	3264.2	3012.3	2672.7	2392.3
45°	3067.1	3181.0	3299.3	3415.4	3428.5	3360.6	3191.9	2933.4	2622.3	2306.9	2039.6
47.5°	2832.7	2981.6	3110.9	3242.3	3224.8	3110.9	2885.2	2591.7	2263.1	1965.1	1750.4
50°	2569.8	2745.0	2889.6	3014.5	2977.2	2819.5	2554.4	2247.7	1921.3	1667.2	1489.7
52.5°	2289.3	2490.9	2635.5	2736.3	2685.9	2497.5	2206.1	1912.5	1645.3	1413.0	1294.7
55°	1998.0	2201.7	2350.7	2429.6	2363.8	2160.1	1873.1	1605.8	1353.9	1202.7	1132.6
57.5°	1715.4	1906.0	2046.2	2109.7	2026.5	1822.7	1557.6	1332.0	1150.1	1023.1	988.0
60°	1443.7	1599.3	1732.9	1781.1	1691.3	1502.9	1275.0	1095.4	961.7	874.1	856.6
62.5°	1191.8	1318.8	1424.0	1461.2	1373.6	1226.8	1029.7	896.0	801.8	758.0	736.1
65°	983.7	1058.1	1165.5	1158.9	1106.3	970.5	825.9	731.7	670.4	641.9	628.7
67.5°	773.3	841.3	909.2	917.9	852.2	758.0	663.8	595.9	563.0	547.7	541.1
70°	598.1	648.5	690.1	679.1	644.1	584.9	525.8	488.5	475.4	468.8	468.8
72.5°	464.4	490.7	510.4	497.3	475.4	444.7	416.2	400.9	403.1	407.5	411.9
75°	359.3	365.9	370.2	357.1	352.7	333.0	330.8	333.0	346.1	359.3	365.9
77.5°	276.0	267.3	260.7	247.6	249.7	247.6	258.5	276.0	295.8	315.5	333.0
80°	212.5	192.8	177.5	164.3	170.9	181.8	203.7	230.0	256.3	278.2	300.1
82.5°	164.3	135.8	113.9	100.8	113.9	131.4	159.9	192.8	223.5	247.6	271.7
85°	127.1	94.2	67.9	54.8	67.9	94.2	124.9	162.1	195.0	221.3	245.4
87.5°	98.6	67.9	37.2	21.9	37.2	65.7	100.8	135.8	168.7	199.4	223.5
90°	78.9	46.0	17.5	4.4	19.7	46.0	78.9	113.9	146.8	179.6	203.7
92.5°	63.5	32.9	8.8	0.0	11.0	35.1	65.7	98.6	131.4	162.1	186.2
95°	52.6	26.3	6.6	0.0	8.8	26.3	52.6	85.4	116.1	146.8	166.5
97.5°	43.8	19.7	4.4	0.0	4.4	21.9	43.8	72.3	103.0	131.4	151.2
100°	37.2	17.5	4.4	0.0	4.4	17.5	37.2	63.5	89.8	116.1	135.8
102.5°	30.7	13.1	2.2	2.2	2.2	13.1	32.9	54.8	78.9	103.0	122.7
105°	28.5	11.0	2.2	2.2	2.2	11.0	28.5	48.2	70.1	92.0	109.5
107.5°	24.1	8.8	2.2	2.2	2.2	8.8	24.1	41.6	63.5	83.2	98.6
110°	19.7	8.8	2.2	2.2	2.2	8.8	19.7	37.2	54.8	72.3	87.6



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-112SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	17.5	6.6	2.2	2.2	2.2	6.6	17.5	32.9	48.2	65.7	78.9
115°	15.3	6.6	2.2	2.2	2.2	6.6	15.3	28.5	41.6	57.0	70.1
117.5°	13.1	6.6	2.2	2.2	2.2	4.4	13.1	24.1	37.2	50.4	63.5
120°	11.0	4.4	2.2	2.2	2.2	4.4	11.0	21.9	32.9	43.8	54.8
122.5°	11.0	4.4	2.2	2.2	2.2	4.4	8.8	17.5	28.5	37.2	48.2
125°	8.8	4.4	2.2	2.2	2.2	2.2	8.8	15.3	24.1	32.9	41.6
127.5°	8.8	4.4	2.2	2.2	2.2	2.2	6.6	13.1	19.7	28.5	37.2
130°	6.6	4.4	2.2	2.2	2.2	2.2	4.4	11.0	17.5	24.1	30.7
132.5°	6.6	4.4	2.2	2.2	2.2	2.2	4.4	8.8	13.1	19.7	26.3
135°	6.6	2.2	2.2	2.2	2.2	2.2	2.2	6.6	11.0	15.3	19.7
137.5°	4.4	2.2	2.2	2.2	2.2	2.2	2.2	4.4	8.8	11.0	17.5
140°	4.4	2.2	2.2	2.2	2.2	2.2	2.2	4.4	6.6	8.8	13.1
142.5°	4.4	2.2	2.2	2.2	2.2	2.2	2.2	2.2	4.4	6.6	11.0
145°	4.4	2.2	2.2	4.4	4.4	2.2	2.2	4.4	4.4	6.6	8.8
147.5°	4.4	2.2	2.2	2.2	2.2	2.2	2.2	2.2	4.4	4.4	6.6
150°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	6.6
152.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
155°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-112SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	4241.3	4241.3	4241.3	4241.3	4241.3	4241.3	4241.3	4241.3	4241.3	4241.3	4241.3
2.5°	4263.2	4212.8	4239.1	4230.4	4239.1	4261.0	4258.8	4252.3	4256.6	4245.7	4234.7
5°	4254.5	4204.1	4230.4	4219.4	4230.4	4252.3	4247.9	4241.3	4247.9	4234.7	4223.8
7.5°	4243.5	4197.5	4228.2	4226.0	4245.7	4274.2	4276.4	4276.4	4291.7	4272.0	4263.2
10°	4243.5	4219.4	4261.0	4276.4	4326.7	4364.0	4368.4	4377.1	4403.4	4399.0	4377.1
12.5°	4289.5	4285.1	4346.5	4383.7	4429.7	4482.3	4510.8	4519.5	4537.1	4523.9	4515.2
15°	4348.7	4370.6	4438.5	4480.1	4530.5	4569.9	4576.5	4580.9	4594.0	4574.3	4559.0
17.5°	4427.5	4440.7	4495.4	4513.0	4545.8	4552.4	4543.6	4521.7	4521.7	4477.9	4464.8
20°	4464.8	4458.2	4480.1	4451.6	4438.5	4399.0	4361.8	4320.2	4318.0	4272.0	4267.6
22.5°	4431.9	4388.1	4342.1	4272.0	4241.3	4184.3	4134.0	4109.9	4094.5	4035.4	4020.0
25°	4315.8	4208.4	4140.5	4057.3	3982.8	3917.1	3868.9	3818.5	3770.3	3722.1	3700.2
27.5°	4114.2	4013.5	3903.9	3787.8	3684.9	3584.1	3503.0	3452.6	3406.6	3343.1	3310.2
30°	3866.7	3726.5	3606.0	3494.3	3325.6	3202.9	3135.0	3034.2	2999.1	2970.7	2909.3
32.5°	3575.3	3406.6	3242.3	3091.2	2918.1	2804.2	2714.3	2639.9	2618.0	2543.5	2525.9
35°	3253.3	3032.0	2845.8	2696.8	2572.0	2433.9	2359.4	2309.1	2265.2	2214.9	2206.1
37.5°	2874.3	2674.9	2464.6	2333.2	2234.6	2116.3	2059.3	2024.3	2004.5	1967.3	1960.7
40°	2493.1	2293.7	2149.1	2017.7	1956.3	1892.8	1851.2	1835.9	1827.1	1813.9	1800.8
42.5°	2146.9	1971.7	1868.7	1781.1	1754.8	1724.1	1713.2	1721.9	1713.2	1708.8	1706.6
45°	1853.4	1719.7	1647.5	1621.2	1614.6	1605.8	1614.6	1629.9	1632.1	1627.7	1627.7
47.5°	1586.1	1522.6	1491.9	1496.3	1507.2	1513.8	1529.1	1548.9	1553.2	1542.3	1546.7
50°	1410.8	1373.6	1367.0	1384.6	1408.7	1417.4	1434.9	1450.3	1448.1	1443.7	1439.3
52.5°	1246.5	1235.6	1253.1	1270.6	1296.9	1301.3	1307.9	1314.5	1312.3	1303.5	1299.1
55°	1108.5	1117.3	1132.6	1139.2	1158.9	1156.7	1158.9	1158.9	1150.1	1145.8	1139.2
57.5°	983.7	985.8	994.6	996.8	1007.7	1003.4	1001.2	996.8	983.7	981.5	974.9
60°	856.6	852.2	871.9	856.6	865.3	856.6	854.4	843.4	830.3	828.1	823.7
62.5°	736.1	727.3	740.5	733.9	738.3	729.5	725.1	712.0	701.0	698.9	696.7
65°	628.7	624.4	637.5	635.3	639.7	628.7	624.4	615.6	606.8	604.6	602.5
67.5°	538.9	549.9	556.5	556.5	560.8	558.6	547.7	545.5	543.3	534.5	534.5
70°	473.2	479.8	492.9	495.1	492.9	497.3	488.5	486.3	484.2	479.8	477.6
72.5°	420.6	429.4	442.5	444.7	442.5	442.5	438.2	436.0	436.0	429.4	429.4
75°	379.0	390.0	400.9	400.9	400.9	396.5	392.1	392.1	387.8	385.6	381.2
77.5°	343.9	357.1	365.9	363.7	361.5	357.1	357.1	350.5	343.9	343.9	339.6
80°	317.7	326.4	333.0	330.8	328.6	322.0	319.9	313.3	308.9	302.3	302.3
82.5°	289.2	300.1	304.5	302.3	297.9	291.4	289.2	284.8	280.4	278.2	273.8
85°	265.1	276.0	278.2	273.8	269.5	265.1	262.9	260.7	258.5	254.1	254.1
87.5°	241.0	251.9	251.9	249.7	245.4	243.2	241.0	238.8	236.6	234.4	232.2
90°	221.3	230.0	230.0	227.8	225.6	223.5	221.3	219.1	216.9	214.7	214.7
92.5°	201.5	210.3	210.3	208.1	205.9	203.7	203.7	201.5	199.4	197.2	195.0
95°	184.0	192.8	192.8	192.8	190.6	188.4	188.4	186.2	184.0	184.0	181.8
97.5°	166.5	175.3	175.3	175.3	173.1	170.9	170.9	168.7	168.7	168.7	166.5
100°	151.2	157.7	159.9	159.9	157.7	157.7	157.7	155.5	155.5	155.5	153.4
102.5°	135.8	142.4	146.8	146.8	146.8	144.6	144.6	144.6	144.6	144.6	142.4
105°	122.7	129.3	133.6	135.8	135.8	135.8	135.8	135.8	135.8	135.8	135.8
107.5°	111.7	118.3	122.7	124.9	127.1	127.1	129.3	129.3	129.3	129.3	129.3
110°	100.8	107.3	113.9	116.1	118.3	120.5	120.5	122.7	120.5	120.5	120.5



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-112SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	89.8	98.6	103.0	107.3	109.5	111.7	113.9	113.9	113.9	113.9	113.9
115°	81.1	89.8	94.2	98.6	103.0	105.2	105.2	107.3	107.3	107.3	105.2
117.5°	72.3	81.1	85.4	89.8	92.0	96.4	98.6	98.6	98.6	98.6	96.4
120°	65.7	72.3	76.7	81.1	85.4	87.6	89.8	89.8	89.8	89.8	89.8
122.5°	57.0	63.5	70.1	74.5	76.7	78.9	81.1	81.1	81.1	81.1	81.1
125°	50.4	57.0	61.3	65.7	67.9	72.3	72.3	72.3	72.3	72.3	72.3
127.5°	43.8	50.4	54.8	59.2	61.3	63.5	65.7	65.7	65.7	65.7	65.7
130°	37.2	43.8	48.2	52.6	54.8	57.0	57.0	59.2	59.2	59.2	59.2
132.5°	32.9	37.2	41.6	46.0	48.2	50.4	50.4	52.6	52.6	52.6	52.6
135°	26.3	32.9	35.1	39.4	41.6	43.8	43.8	46.0	46.0	46.0	46.0
137.5°	21.9	26.3	30.7	35.1	37.2	37.2	39.4	39.4	41.6	41.6	41.6
140°	17.5	19.7	26.3	28.5	30.7	32.9	35.1	35.1	35.1	35.1	35.1
142.5°	13.1	17.5	19.7	24.1	26.3	28.5	30.7	30.7	30.7	30.7	30.7
145°	11.0	13.1	15.3	19.7	21.9	24.1	26.3	26.3	26.3	26.3	26.3
147.5°	8.8	11.0	13.1	15.3	17.5	19.7	21.9	21.9	21.9	21.9	21.9
150°	6.6	8.8	11.0	11.0	13.1	15.3	17.5	19.7	19.7	19.7	19.7
152.5°	6.6	6.6	8.8	8.8	11.0	13.1	15.3	15.3	15.3	15.3	15.3
155°	4.4	6.6	6.6	6.6	8.8	8.8	11.0	13.1	13.1	13.1	13.1
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-112SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	4241.3	4241.3	4241.3	4241.3	4241.3	4241.3	4241.3	4241.3	4241.3	4241.3	4241.3
2.5°	4241.3	4250.1	4245.7	4239.1	4236.9	4247.9	4236.9	4186.5	4206.3	4208.4	4223.8
5°	4234.7	4241.3	4236.9	4232.5	4226.0	4239.1	4226.0	4173.4	4193.1	4195.3	4210.6
7.5°	4278.6	4280.7	4280.7	4269.8	4252.3	4258.8	4241.3	4182.2	4193.1	4193.1	4204.1
10°	4388.1	4392.5	4399.0	4370.6	4348.7	4331.1	4307.0	4234.7	4232.5	4215.0	4215.0
12.5°	4530.5	4519.5	4508.6	4495.4	4477.9	4456.0	4421.0	4335.5	4307.0	4278.6	4250.1
15°	4572.1	4567.7	4565.5	4559.0	4548.0	4541.4	4515.2	4429.7	4388.1	4353.0	4302.6
17.5°	4462.6	4471.3	4499.8	4502.0	4515.2	4541.4	4537.1	4477.9	4440.7	4425.3	4364.0
20°	4265.4	4267.6	4302.6	4318.0	4374.9	4418.8	4451.6	4445.0	4436.3	4453.8	4407.8
22.5°	4028.8	4044.1	4081.4	4105.5	4160.2	4210.6	4263.2	4291.7	4337.7	4410.0	4401.2
25°	3706.8	3726.5	3779.1	3818.5	3895.2	3971.8	4041.9	4092.3	4147.1	4285.1	4331.1
27.5°	3321.2	3351.9	3419.8	3459.2	3566.6	3645.4	3746.2	3844.8	3921.5	4079.2	4173.4
30°	2915.9	2942.2	3014.5	3069.3	3161.3	3268.6	3395.7	3535.9	3662.9	3822.9	3941.2
32.5°	2536.9	2565.4	2624.5	2672.7	2775.7	2865.5	3005.7	3178.8	3297.1	3518.4	3676.1
35°	2206.1	2232.4	2274.0	2315.6	2401.1	2493.1	2613.6	2782.3	2933.4	3163.5	3362.8
37.5°	1973.9	1978.3	2002.4	2026.5	2090.0	2160.1	2254.3	2403.3	2543.5	2791.0	3010.1
40°	1807.4	1807.4	1820.5	1827.1	1855.6	1897.2	1956.3	2072.5	2188.6	2377.0	2644.2
42.5°	1704.4	1700.0	1700.0	1702.2	1700.0	1719.7	1754.8	1809.6	1912.5	2068.1	2276.2
45°	1627.7	1619.0	1612.4	1597.1	1588.3	1588.3	1590.5	1610.2	1669.4	1770.1	1938.8
47.5°	1542.3	1540.1	1529.1	1511.6	1496.3	1485.3	1467.8	1461.2	1478.8	1535.7	1649.6
50°	1443.7	1432.8	1421.8	1408.7	1391.1	1380.2	1347.3	1349.5	1334.2	1360.5	1419.6
52.5°	1299.1	1290.4	1286.0	1275.0	1268.4	1264.1	1237.8	1211.5	1204.9	1209.3	1231.2
55°	1139.2	1143.6	1126.0	1134.8	1132.6	1112.9	1102.0	1082.2	1075.7	1073.5	1084.4
57.5°	972.7	977.1	966.1	974.9	974.9	963.9	957.4	957.4	942.0	928.9	944.2
60°	821.5	812.8	819.3	830.3	830.3	823.7	819.3	819.3	808.4	804.0	815.0
62.5°	698.9	690.1	696.7	707.6	709.8	705.4	701.0	701.0	687.9	687.9	696.7
65°	604.6	606.8	604.6	613.4	613.4	615.6	611.2	606.8	591.5	598.1	595.9
67.5°	536.7	534.5	534.5	543.3	541.1	545.5	541.1	534.5	523.6	514.8	512.6
70°	479.8	477.6	477.6	482.0	484.2	484.2	482.0	477.6	462.2	453.5	446.9
72.5°	429.4	427.2	429.4	431.6	433.8	436.0	433.8	429.4	416.2	405.3	394.3
75°	383.4	381.2	387.8	387.8	390.0	390.0	392.1	390.0	379.0	365.9	352.7
77.5°	337.4	339.6	346.1	348.3	352.7	354.9	357.1	357.1	346.1	335.2	317.7
80°	300.1	304.5	308.9	311.1	315.5	322.0	324.2	326.4	317.7	306.7	287.0
82.5°	273.8	276.0	280.4	282.6	289.2	291.4	293.6	297.9	293.6	282.6	260.7
85°	251.9	254.1	258.5	258.5	262.9	267.3	269.5	271.7	269.5	258.5	236.6
87.5°	232.2	234.4	236.6	238.8	241.0	243.2	245.4	247.6	245.4	234.4	214.7
90°	214.7	214.7	216.9	216.9	219.1	221.3	225.6	225.6	223.5	214.7	195.0
92.5°	195.0	197.2	197.2	199.4	201.5	203.7	205.9	205.9	203.7	195.0	177.5
95°	181.8	181.8	184.0	184.0	186.2	186.2	188.4	188.4	186.2	177.5	159.9
97.5°	166.5	166.5	166.5	166.5	168.7	168.7	170.9	170.9	168.7	159.9	144.6
100°	153.4	153.4	153.4	153.4	153.4	155.5	155.5	155.5	153.4	144.6	129.3
102.5°	142.4	142.4	142.4	142.4	142.4	142.4	142.4	142.4	138.0	131.4	116.1
105°	135.8	135.8	135.8	133.6	133.6	133.6	131.4	131.4	124.9	118.3	105.2
107.5°	127.1	127.1	127.1	124.9	124.9	122.7	120.5	120.5	113.9	107.3	94.2
110°	120.5	120.5	120.5	118.3	116.1	113.9	111.7	109.5	103.0	94.2	83.2



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-112SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	113.9	113.9	111.7	111.7	109.5	107.3	103.0	100.8	94.2	85.4	74.5
115°	105.2	105.2	105.2	103.0	100.8	98.6	96.4	92.0	85.4	76.7	65.7
117.5°	96.4	96.4	96.4	94.2	92.0	89.8	87.6	83.2	76.7	67.9	59.2
120°	87.6	87.6	87.6	85.4	83.2	81.1	78.9	74.5	67.9	61.3	50.4
122.5°	81.1	81.1	78.9	76.7	74.5	72.3	70.1	65.7	61.3	52.6	43.8
125°	72.3	72.3	70.1	70.1	67.9	65.7	63.5	59.2	52.6	46.0	39.4
127.5°	65.7	63.5	63.5	63.5	61.3	59.2	54.8	52.6	46.0	39.4	32.9
130°	57.0	57.0	57.0	54.8	54.8	52.6	48.2	43.8	39.4	35.1	28.5
132.5°	50.4	50.4	50.4	50.4	48.2	46.0	41.6	39.4	35.1	28.5	24.1
135°	46.0	46.0	43.8	43.8	41.6	39.4	37.2	32.9	28.5	24.1	19.7
137.5°	39.4	39.4	39.4	37.2	37.2	35.1	30.7	28.5	26.3	21.9	17.5
140°	35.1	35.1	32.9	32.9	30.7	30.7	28.5	24.1	21.9	17.5	15.3
142.5°	30.7	30.7	28.5	28.5	26.3	26.3	24.1	21.9	17.5	15.3	11.0
145°	26.3	26.3	24.1	24.1	24.1	21.9	19.7	17.5	15.3	13.1	11.0
147.5°	21.9	21.9	21.9	19.7	19.7	17.5	17.5	15.3	13.1	11.0	8.8
150°	19.7	19.7	17.5	17.5	17.5	15.3	13.1	13.1	11.0	8.8	6.6
152.5°	15.3	15.3	15.3	15.3	13.1	13.1	11.0	11.0	8.8	6.6	6.6
155°	13.1	13.1	13.1	11.0	11.0	11.0	8.8	8.8	6.6	6.6	4.4
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-112SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	4241.3	4241.3	4241.3	4241.3	4241.3	4241.3	4241.3
2.5°	4217.2	4215.0	4234.7	4232.5	4206.3	4245.7	4272.0
5°	4206.3	4204.1	4221.6	4226.0	4197.5	4239.1	4267.6
7.5°	4197.5	4195.3	4215.0	4221.6	4193.1	4230.4	4261.0
10°	4199.7	4188.7	4206.3	4210.6	4184.3	4223.8	4250.1
12.5°	4215.0	4188.7	4195.3	4195.3	4171.2	4206.3	4234.7
15°	4252.3	4197.5	4188.7	4182.2	4151.5	4184.3	4212.8
17.5°	4293.9	4219.4	4188.7	4166.8	4129.6	4158.1	4188.7
20°	4335.5	4243.5	4193.1	4158.1	4107.7	4134.0	4155.9
22.5°	4355.2	4265.4	4197.5	4144.9	4081.4	4094.5	4118.6
25°	4328.9	4256.6	4188.7	4125.2	4048.5	4050.7	4070.4
27.5°	4232.5	4212.8	4169.0	4105.5	4022.2	4011.3	4026.6
30°	4068.2	4123.0	4125.2	4079.2	3991.6	3969.7	3976.2
32.5°	3838.2	3960.9	4033.2	4024.4	3947.7	3917.1	3921.5
35°	3573.1	3726.5	3884.2	3936.8	3882.0	3857.9	3849.2
37.5°	3255.5	3461.4	3671.7	3801.0	3792.2	3776.9	3768.1
40°	2904.9	3152.5	3402.2	3608.2	3671.7	3671.7	3676.1
42.5°	2530.3	2819.5	3093.4	3354.1	3503.0	3535.9	3549.0
45°	2168.9	2460.2	2758.2	3058.3	3257.7	3360.6	3397.9
47.5°	1840.2	2133.8	2416.4	2745.0	3010.1	3143.7	3202.9
50°	1559.8	1778.9	2076.8	2403.3	2692.4	2856.7	2972.9
52.5°	1327.6	1498.5	1759.2	2063.7	2355.1	2580.7	2688.1
55°	1132.6	1248.7	1470.0	1732.9	2011.1	2245.5	2370.4
57.5°	968.3	1060.3	1211.5	1430.6	1665.0	1897.2	2030.8
60°	823.7	887.3	990.2	1163.3	1362.7	1562.0	1691.3
62.5°	698.9	740.5	808.4	935.5	1091.0	1246.5	1367.0
65°	602.5	620.0	657.2	736.1	854.4	972.7	1075.7
67.5°	508.3	519.2	547.7	595.9	655.0	740.5	808.4
70°	438.2	438.2	440.3	468.8	499.5	554.3	602.5
72.5°	381.2	374.6	361.5	368.0	374.6	405.3	436.0
75°	335.2	319.9	297.9	289.2	284.8	289.2	306.7
77.5°	295.8	273.8	247.6	225.6	208.1	201.5	216.9
80°	262.9	236.6	205.9	177.5	149.0	133.6	140.2
82.5°	236.6	203.7	170.9	138.0	105.2	83.2	83.2
85°	208.1	177.5	142.4	107.3	74.5	46.0	41.6
87.5°	188.4	155.5	118.3	85.4	52.6	24.1	13.1
90°	168.7	135.8	100.8	67.9	37.2	11.0	0.0
92.5°	151.2	120.5	87.6	54.8	26.3	6.6	0.0
95°	135.8	107.3	74.5	46.0	21.9	4.4	2.2
97.5°	120.5	94.2	65.7	37.2	15.3	4.4	2.2
100°	109.5	83.2	57.0	30.7	13.1	2.2	2.2
102.5°	96.4	74.5	48.2	26.3	11.0	2.2	2.2
105°	85.4	65.7	41.6	21.9	8.8	2.2	2.2
107.5°	76.7	57.0	37.2	19.7	8.8	2.2	2.2
110°	67.9	50.4	32.9	17.5	6.6	2.2	2.2



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-112SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	61.3	43.8	28.5	15.3	4.4	2.2	2.2
115°	52.6	39.4	24.1	13.1	4.4	2.2	2.2
117.5°	46.0	32.9	21.9	11.0	4.4	2.2	2.2
120°	39.4	28.5	17.5	8.8	2.2	2.2	2.2
122.5°	35.1	24.1	15.3	8.8	2.2	2.2	2.2
125°	30.7	21.9	13.1	6.6	2.2	2.2	2.2
127.5°	26.3	17.5	11.0	4.4	2.2	2.2	2.2
130°	21.9	15.3	8.8	4.4	2.2	2.2	2.2
132.5°	17.5	13.1	8.8	4.4	2.2	2.2	2.2
135°	15.3	11.0	6.6	4.4	2.2	2.2	2.2
137.5°	13.1	8.8	4.4	4.4	4.4	2.2	2.2
140°	11.0	6.6	4.4	4.4	4.4	4.4	2.2
142.5°	8.8	6.6	4.4	4.4	4.4	4.4	2.2
145°	6.6	4.4	4.4	4.4	4.4	4.4	2.2
147.5°	6.6	4.4	4.4	4.4	4.4	4.4	2.2
150°	4.4	4.4	4.4	4.4	4.4	4.4	4.4
152.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.4
155°	4.4	4.4	4.4	4.4	4.4	4.4	4.4
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)