

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-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 (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-L930-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
CLEAR LENSED
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9306.0 lumens
Efficiency: N/A
Efficacy: 101.2 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

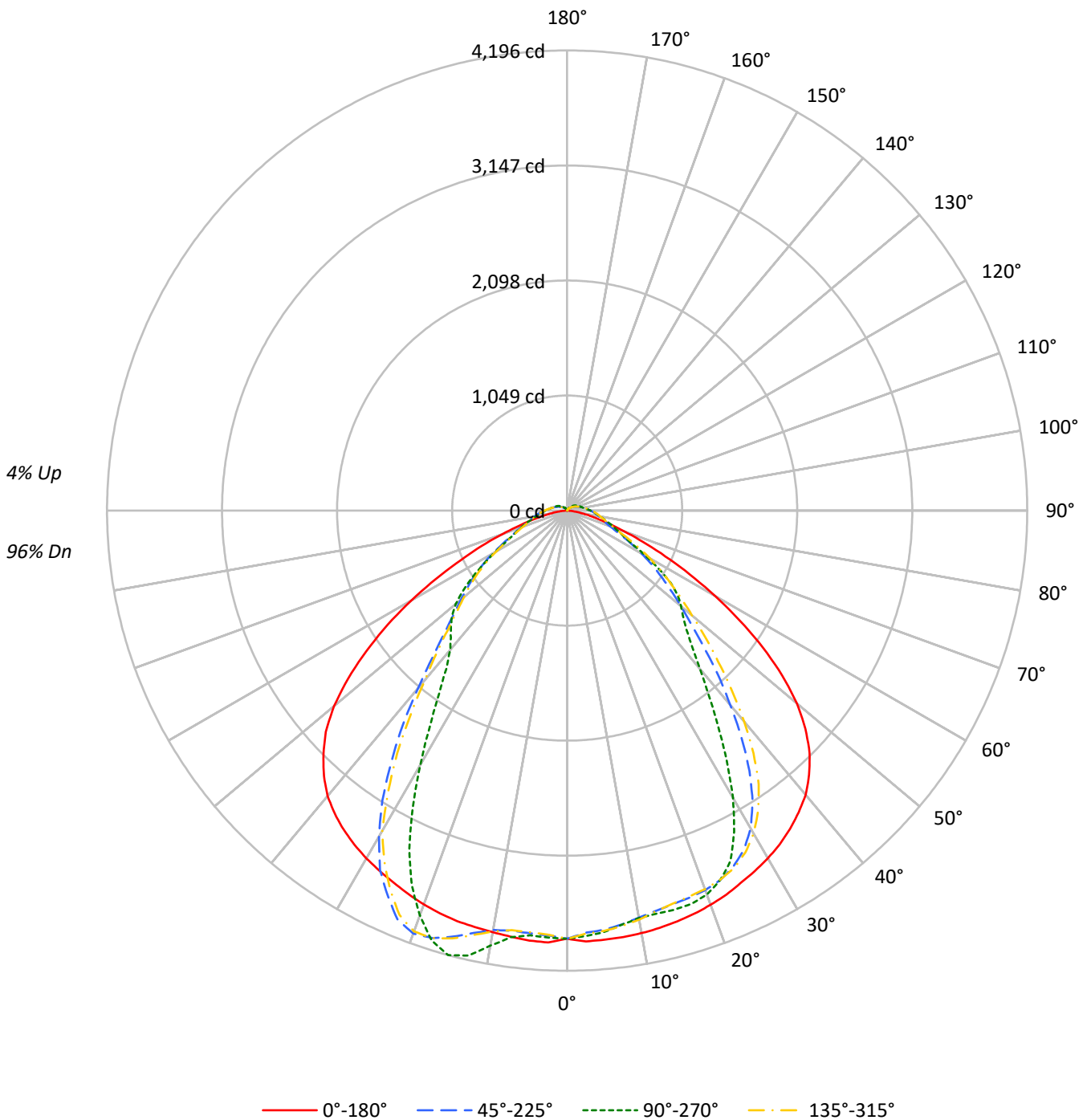
Input Watts (W): 92
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: 8SNLED-LD5-112SL-LC-UNV-L930-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°	15773	15773	15773	15773
5°	15909	15148	15942	15266
10°	16005	14517	15972	15503
15°	16152	14323	16143	15948
20°	16354	14096	16337	14859
25°	16581	13373	16572	12921
30°	16922	11590	16931	10268
35°	17285	9372	17335	7931
40°	17615	7546	17688	6648
45°	17595	6392	17686	6224
50°	16885	5885	17121	5753
55°	15033	5289	15408	4808
60°	12247	4048	12898	3712
65°	9158	3097	9867	2937
70°	6281	2673	7081	2557
75°	4164	2412	4849	2281
80°	2757	2250	3232	2070
85°	1507	2244	1982	2050



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.8	4.0
10°-20°	1103.3	11.9
20°-30°	1677.3	18.0
30°-40°	1799.3	19.3
40°-50°	1561.6	16.8
50°-60°	1157.3	12.4
60°-70°	663.1	7.1
70°-80°	367.2	3.9
80°-90°	223.6	2.4
90°-100°	145.4	1.6
100°-110°	97.4	1.0
110°-120°	65.8	0.7
120°-130°	40.3	0.4
130°-140°	21.2	0.2
140°-150°	9.7	0.1
150°-160°	2.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3151.3	33.9
0°-40°	4950.6	53.2
0°-60°	7669.5	82.4
0°-90°	8923.4	95.9
90°-120°	308.5	3.3
90°-150°	379.8	4.1
90°-180°	383.0	4.1
0°-180°	9306.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3904	3904	3904	3904	3904	
5°	3928	3857	3936	3888	3928	374
15°	3877	3768	3875	4196	3877	1097
25°	3746	3525	3744	3406	3746	1732
35°	3543	2399	3553	2030	3543	2218
45°	3127	1538	3144	1498	3127	2394
55°	2182	1153	2236	1048	2182	1935
65°	990	585	1067	554	990	998
75°	282	371	329	351	282	322
85°	38	256	50	234	38	50
90°	0	214	4	198	0	2
95°	2	175	0	167	2	1
105°	2	131	2	125	2	2
115°	2	107	2	97	2	2
125°	2	81	2	66	2	2
135°	2	50	2	42	2	2
145°	2	30	4	24	2	1
155°	4	14	4	12	4	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3903.6	3903.6	3903.6	3903.6	3903.6	3903.6	3903.6	3903.6	3903.6	3903.6	3903.6
2.5°	3931.9	3921.8	3917.7	3909.7	3915.7	3939.9	3923.8	3897.6	3899.6	3853.2	3877.4
5°	3927.8	3915.7	3909.7	3901.6	3905.6	3927.8	3911.7	3885.5	3883.5	3837.1	3859.3
7.5°	3921.8	3909.7	3899.6	3893.5	3895.6	3913.7	3893.5	3863.3	3857.3	3806.8	3827.0
10°	3911.7	3903.6	3889.5	3879.4	3877.4	3897.6	3865.3	3835.1	3821.0	3768.5	3788.7
12.5°	3897.6	3885.5	3871.4	3853.2	3851.2	3863.3	3837.1	3794.7	3780.6	3738.3	3760.5
15°	3877.4	3863.3	3847.2	3827.0	3816.9	3825.0	3792.7	3754.4	3752.4	3716.1	3746.4
17.5°	3855.2	3835.1	3816.9	3788.7	3774.6	3780.6	3754.4	3720.1	3724.2	3702.0	3736.3
20°	3825.0	3802.8	3774.6	3746.4	3726.2	3736.3	3718.1	3691.9	3698.0	3681.8	3712.1
22.5°	3790.7	3760.5	3726.2	3693.9	3677.8	3691.9	3677.8	3655.6	3657.6	3647.6	3665.7
25°	3746.4	3712.1	3671.8	3631.4	3623.4	3633.4	3625.4	3607.2	3599.2	3583.0	3591.1
27.5°	3706.0	3667.7	3617.3	3575.0	3560.9	3581.0	3562.9	3532.6	3510.4	3488.3	3472.1
30°	3659.7	3613.3	3556.8	3508.4	3496.3	3504.4	3478.2	3431.8	3373.3	3345.1	3300.7
32.5°	3609.2	3548.8	3478.2	3423.7	3415.7	3409.6	3361.2	3294.7	3204.0	3147.5	3078.9
35°	3542.7	3476.2	3391.5	3324.9	3312.8	3278.6	3199.9	3111.2	2994.3	2897.5	2780.5
37.5°	3468.1	3389.5	3300.7	3212.0	3177.7	3109.2	2998.3	2905.5	2728.1	2611.2	2470.0
40°	3383.4	3288.6	3179.8	3072.9	3016.4	2905.5	2778.5	2641.4	2470.0	2312.7	2193.8
42.5°	3266.5	3165.7	3036.6	2917.6	2820.9	2673.7	2524.5	2330.9	2173.6	2040.5	1919.6
45°	3127.3	3006.4	2857.2	2714.0	2591.0	2415.6	2240.2	2046.6	1915.5	1760.3	1677.6
47.5°	2947.9	2816.8	2657.5	2498.2	2336.9	2143.4	1959.9	1774.4	1643.3	1532.4	1471.9
50°	2736.2	2615.2	2439.8	2250.2	2072.8	1871.2	1687.7	1548.5	1421.5	1353.0	1306.6
52.5°	2474.0	2361.1	2181.7	1976.0	1804.6	1607.0	1439.7	1326.8	1236.0	1185.6	1169.5
55°	2181.7	2082.9	1905.4	1713.9	1538.5	1357.0	1230.0	1131.2	1072.7	1042.4	1044.5
57.5°	1869.1	1792.5	1625.2	1453.8	1288.4	1151.3	1036.4	957.8	913.4	911.4	917.4
60°	1556.6	1500.2	1355.0	1207.8	1062.6	951.7	867.0	812.6	784.4	786.4	784.4
62.5°	1258.2	1205.8	1100.9	979.9	865.0	790.4	713.8	691.6	667.4	665.4	665.4
65°	990.0	949.7	865.0	778.3	691.6	643.2	604.9	578.7	560.5	556.5	558.5
67.5°	744.0	727.9	669.4	611.0	556.5	526.3	494.0	488.0	473.8	473.8	477.9
70°	554.5	542.4	510.1	475.9	453.7	433.5	417.4	417.4	415.4	413.3	423.4
72.5°	401.3	403.3	393.2	367.0	365.0	360.9	356.9	362.9	365.0	371.0	383.1
75°	282.3	288.3	288.3	284.3	292.4	302.5	308.5	318.6	330.7	338.7	352.9
77.5°	199.6	199.6	209.7	221.8	237.9	256.1	272.2	286.3	302.5	312.5	324.6
80°	129.0	135.1	151.2	173.4	195.6	219.8	242.0	260.1	276.2	292.4	300.4
82.5°	76.6	86.7	106.9	135.1	163.3	193.6	215.7	237.9	256.1	272.2	278.3
85°	38.3	52.4	76.6	106.9	137.1	169.4	197.6	217.8	237.9	252.0	260.1
87.5°	12.1	28.2	54.4	82.7	114.9	147.2	177.4	199.6	217.8	229.9	237.9
90°	0.0	14.1	38.3	68.6	98.8	131.1	159.3	183.5	201.6	211.7	217.8
92.5°	0.0	8.1	30.2	56.5	84.7	116.9	145.2	167.4	183.5	193.6	197.6
95°	2.0	6.0	22.2	46.4	74.6	104.8	131.1	151.2	167.4	177.4	179.5
97.5°	2.0	4.0	18.1	38.3	64.5	92.8	119.0	139.1	151.2	161.3	163.3
100°	2.0	4.0	14.1	34.3	56.5	82.7	106.9	125.0	139.1	147.2	149.2
102.5°	2.0	2.0	12.1	28.2	50.4	72.6	94.8	112.9	125.0	133.1	137.1
105°	2.0	2.0	10.1	24.2	44.4	64.5	84.7	102.8	112.9	121.0	125.0
107.5°	2.0	2.0	8.1	20.2	38.3	56.5	76.6	90.7	102.8	110.9	114.9
110°	2.0	2.0	6.0	18.1	32.3	50.4	66.5	80.7	92.8	100.8	104.8



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CATALOG NUMBER: 8SNLED-LD5-112SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	2.0	2.0	6.0	16.1	28.2	44.4	58.5	72.6	82.7	90.7	96.8
115°	2.0	2.0	6.0	14.1	26.2	38.3	52.4	64.5	74.6	82.7	88.7
117.5°	2.0	2.0	6.0	12.1	22.2	34.3	46.4	58.5	66.5	74.6	80.7
120°	2.0	2.0	4.0	10.1	20.2	30.2	40.3	50.4	60.5	68.6	74.6
122.5°	2.0	2.0	4.0	10.1	16.1	26.2	36.3	44.4	54.4	60.5	66.5
125°	2.0	2.0	4.0	8.1	14.1	24.2	32.3	40.3	46.4	54.4	60.5
127.5°	2.0	2.0	4.0	8.1	12.1	20.2	28.2	36.3	42.3	48.4	52.4
130°	2.0	2.0	4.0	6.0	10.1	16.1	24.2	30.2	38.3	42.3	46.4
132.5°	2.0	2.0	2.0	6.0	8.1	12.1	18.1	26.2	32.3	38.3	40.3
135°	2.0	2.0	2.0	4.0	8.1	10.1	14.1	20.2	26.2	32.3	36.3
137.5°	2.0	2.0	2.0	4.0	6.0	10.1	12.1	16.1	22.2	26.2	32.3
140°	2.0	2.0	2.0	4.0	6.0	8.1	10.1	14.1	18.1	22.2	26.2
142.5°	2.0	2.0	2.0	4.0	4.0	6.0	8.1	12.1	14.1	18.1	22.2
145°	2.0	2.0	2.0	4.0	4.0	6.0	8.1	10.1	12.1	14.1	18.1
147.5°	2.0	2.0	2.0	4.0	4.0	4.0	6.0	8.1	10.1	12.1	14.1
150°	4.0	4.0	4.0	4.0	4.0	4.0	6.0	6.0	8.1	10.1	12.1
152.5°	4.0	4.0	4.0	4.0	4.0	4.0	6.0	6.0	6.0	8.1	10.1
155°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	6.0	6.0	8.1	8.1
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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3903.6	3903.6	3903.6	3903.6	3903.6	3903.6	3903.6	3903.6	3903.6	3903.6	3903.6
2.5°	3869.4	3873.4	3897.6	3895.6	3891.5	3887.5	3887.5	3883.5	3887.5	3897.6	3893.5
5°	3849.2	3855.2	3873.4	3871.4	3867.3	3865.3	3863.3	3857.3	3861.3	3875.4	3871.4
7.5°	3812.9	3818.9	3835.1	3827.0	3821.0	3825.0	3814.9	3808.9	3816.9	3831.0	3829.0
10°	3774.6	3778.6	3798.8	3794.7	3784.7	3786.7	3776.6	3772.6	3782.7	3790.7	3792.7
12.5°	3748.4	3762.5	3780.6	3778.6	3776.6	3778.6	3768.5	3764.5	3770.6	3778.6	3776.6
15°	3742.3	3760.5	3780.6	3780.6	3782.7	3784.7	3774.6	3768.5	3774.6	3780.6	3778.6
17.5°	3736.3	3758.5	3776.6	3774.6	3776.6	3780.6	3764.5	3760.5	3768.5	3776.6	3772.6
20°	3716.1	3736.3	3748.4	3744.3	3744.3	3746.4	3726.2	3726.2	3738.3	3744.3	3746.4
22.5°	3659.7	3683.9	3683.9	3673.8	3673.8	3665.7	3659.7	3647.6	3661.7	3671.8	3679.8
25°	3575.0	3585.0	3573.0	3550.8	3538.7	3528.6	3500.4	3524.6	3524.6	3554.8	3564.9
27.5°	3456.0	3433.8	3399.5	3353.2	3343.1	3310.8	3292.7	3298.7	3308.8	3351.2	3383.4
30°	3260.4	3193.9	3135.4	3115.2	3070.9	3038.6	3006.4	3022.5	3040.6	3064.8	3131.4
32.5°	3002.3	2937.8	2843.0	2808.8	2762.4	2722.1	2683.7	2707.9	2740.2	2756.3	2828.9
35°	2705.9	2629.3	2542.6	2484.1	2435.7	2413.6	2365.2	2399.4	2433.7	2445.8	2508.3
37.5°	2391.4	2312.7	2236.1	2185.7	2139.3	2125.2	2093.0	2117.2	2143.4	2161.5	2213.9
40°	2093.0	2020.4	1961.9	1927.6	1895.4	1883.3	1871.2	1881.2	1901.4	1915.5	1955.8
42.5°	1836.9	1778.4	1738.1	1717.9	1695.7	1679.6	1681.6	1685.7	1695.7	1726.0	1744.1
45°	1613.1	1578.8	1552.6	1548.5	1534.4	1532.4	1530.4	1538.5	1544.5	1562.7	1576.8
47.5°	1433.6	1419.5	1413.5	1421.5	1427.6	1419.5	1423.5	1433.6	1445.7	1445.7	1443.7
50°	1292.5	1296.5	1304.6	1322.7	1334.8	1338.8	1342.9	1355.0	1357.0	1361.0	1355.0
52.5°	1177.5	1181.6	1203.8	1232.0	1246.1	1252.1	1260.2	1272.3	1272.3	1276.3	1268.3
55°	1060.6	1066.6	1088.8	1117.1	1129.1	1137.2	1145.3	1153.3	1159.4	1167.5	1161.4
57.5°	931.5	949.7	963.8	971.9	979.9	986.0	992.0	994.1	1006.2	1008.2	1018.3
60°	794.4	798.5	812.6	810.6	804.5	820.6	812.6	826.7	840.8	859.0	861.0
62.5°	663.4	665.4	675.5	671.4	679.5	677.5	683.5	683.5	693.6	701.7	711.8
65°	560.5	562.6	570.6	570.6	568.6	574.7	580.7	584.7	584.7	590.8	598.9
67.5°	483.9	490.0	498.0	502.1	506.1	506.1	512.1	514.2	518.2	520.2	524.2
70°	431.5	439.6	447.6	451.7	453.7	457.7	459.7	459.7	463.8	465.8	469.8
72.5°	393.2	401.3	407.3	407.3	411.3	413.3	413.3	415.4	417.4	421.4	425.4
75°	360.9	367.0	371.0	369.0	369.0	369.0	371.0	371.0	375.0	379.1	383.1
77.5°	330.7	336.7	336.7	332.7	332.7	332.7	332.7	334.7	336.7	340.8	344.8
80°	308.5	308.5	306.5	306.5	302.5	300.4	300.4	302.5	302.5	306.5	312.5
82.5°	284.3	284.3	282.3	280.3	278.3	276.2	276.2	278.3	280.3	282.3	286.3
85°	262.1	262.1	258.1	258.1	256.1	256.1	256.1	256.1	258.1	260.1	264.1
87.5°	239.9	237.9	235.9	233.9	233.9	233.9	233.9	233.9	235.9	239.9	242.0
90°	217.8	215.7	213.7	213.7	211.7	211.7	213.7	213.7	215.7	217.8	219.8
92.5°	197.6	195.6	193.6	193.6	191.6	191.6	193.6	191.6	195.6	195.6	197.6
95°	179.5	177.4	175.4	175.4	175.4	175.4	175.4	175.4	177.4	177.4	179.5
97.5°	163.3	161.3	159.3	159.3	161.3	159.3	161.3	161.3	161.3	163.3	165.3
100°	149.2	147.2	147.2	149.2	147.2	147.2	149.2	149.2	149.2	149.2	151.2
102.5°	137.1	137.1	137.1	137.1	137.1	137.1	139.1	139.1	139.1	139.1	141.1
105°	125.0	127.0	127.0	127.0	129.0	129.0	129.0	131.1	131.1	131.1	131.1
107.5°	116.9	119.0	119.0	121.0	121.0	123.0	123.0	123.0	123.0	125.0	125.0
110°	108.9	110.9	112.9	114.9	114.9	116.9	116.9	116.9	116.9	116.9	116.9



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-112SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	100.8	102.8	104.8	108.9	110.9	110.9	110.9	110.9	112.9	112.9	110.9
115°	92.8	96.8	98.8	102.8	104.8	104.8	106.9	106.9	106.9	106.9	104.8
117.5°	84.7	90.7	92.8	96.8	98.8	98.8	100.8	100.8	100.8	100.8	98.8
120°	78.6	82.7	86.7	88.7	90.7	92.8	92.8	94.8	94.8	94.8	92.8
122.5°	72.6	76.6	80.7	82.7	84.7	86.7	86.7	86.7	86.7	86.7	86.7
125°	64.5	68.6	72.6	74.6	76.6	78.6	78.6	80.7	80.7	80.7	78.6
127.5°	58.5	62.5	64.5	68.6	70.6	70.6	72.6	72.6	72.6	72.6	70.6
130°	50.4	54.4	58.5	60.5	62.5	62.5	64.5	64.5	64.5	64.5	64.5
132.5°	44.4	48.4	50.4	54.4	54.4	56.5	56.5	58.5	58.5	58.5	56.5
135°	40.3	42.3	44.4	48.4	48.4	50.4	50.4	50.4	50.4	50.4	50.4
137.5°	36.3	38.3	40.3	42.3	42.3	44.4	44.4	44.4	44.4	46.4	44.4
140°	30.2	34.3	36.3	36.3	38.3	38.3	38.3	40.3	40.3	40.3	38.3
142.5°	26.2	28.2	30.2	32.3	34.3	34.3	34.3	34.3	36.3	34.3	34.3
145°	20.2	24.2	26.2	28.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2
147.5°	16.1	18.1	22.2	24.2	24.2	26.2	26.2	26.2	26.2	26.2	26.2
150°	14.1	14.1	18.1	20.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2
152.5°	10.1	12.1	14.1	16.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1
155°	10.1	10.1	12.1	12.1	14.1	14.1	14.1	14.1	16.1	14.1	14.1
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-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3903.6	3903.6	3903.6	3903.6	3903.6	3903.6	3903.6	3903.6	3903.6	3903.6	3903.6
2.5°	3887.5	3885.5	3893.5	3885.5	3845.2	3861.3	3855.2	3877.4	3879.4	3885.5	3905.6
5°	3867.3	3867.3	3877.4	3869.4	3831.0	3847.2	3845.2	3867.3	3871.4	3875.4	3897.6
7.5°	3827.0	3829.0	3843.1	3837.1	3796.8	3821.0	3818.9	3845.2	3853.2	3861.3	3881.5
10°	3788.7	3786.7	3802.8	3796.8	3758.5	3786.7	3784.7	3810.9	3823.0	3837.1	3861.3
12.5°	3768.5	3762.5	3768.5	3762.5	3720.1	3742.3	3744.3	3774.6	3788.7	3806.8	3835.1
15°	3768.5	3758.5	3758.5	3746.4	3698.0	3712.1	3714.1	3734.3	3752.4	3770.6	3804.8
17.5°	3764.5	3754.4	3752.4	3742.3	3689.9	3689.9	3687.9	3702.0	3712.1	3730.2	3766.5
20°	3742.3	3738.3	3736.3	3730.2	3681.8	3673.8	3669.7	3669.7	3675.8	3681.8	3718.1
22.5°	3683.9	3687.9	3691.9	3695.9	3657.6	3643.5	3645.5	3641.5	3635.5	3635.5	3665.7
25°	3575.0	3595.1	3611.3	3629.4	3607.2	3597.1	3609.2	3603.2	3593.1	3585.0	3611.3
27.5°	3401.6	3443.9	3478.2	3522.5	3524.6	3516.5	3548.8	3544.7	3542.7	3530.6	3550.8
30°	3161.6	3228.2	3274.5	3339.1	3393.5	3401.6	3456.0	3464.1	3472.1	3466.1	3486.2
32.5°	2871.3	2962.0	3040.6	3141.5	3193.9	3240.3	3316.9	3349.1	3381.4	3391.5	3413.7
35°	2554.7	2657.5	2750.3	2861.2	2943.9	3044.7	3137.4	3185.8	3258.4	3286.6	3318.9
37.5°	2254.3	2351.1	2441.8	2552.7	2685.8	2790.6	2905.5	3014.4	3113.2	3153.6	3201.9
40°	1988.1	2066.7	2153.4	2250.2	2371.2	2508.3	2633.3	2784.6	2901.5	2982.2	3052.7
42.5°	1786.5	1824.8	1899.4	1986.1	2082.9	2222.0	2349.0	2518.4	2659.6	2774.5	2891.4
45°	1607.0	1625.2	1679.6	1726.0	1824.8	1947.8	2082.9	2248.2	2395.4	2542.6	2683.7
47.5°	1453.8	1476.0	1502.2	1530.4	1601.0	1703.8	1820.8	1970.0	2117.2	2288.5	2449.9
50°	1350.9	1357.0	1361.0	1373.1	1415.5	1486.0	1580.8	1707.8	1849.0	2032.5	2203.9
52.5°	1260.2	1260.2	1248.1	1242.1	1258.2	1302.6	1357.0	1447.7	1592.9	1762.3	1943.8
55°	1163.4	1145.3	1141.2	1121.1	1125.1	1145.3	1171.5	1242.1	1361.0	1506.2	1681.6
57.5°	1028.3	1020.3	1020.3	1012.2	996.1	1006.2	1012.2	1062.6	1147.3	1272.3	1425.6
60°	873.1	869.0	879.1	881.1	867.0	873.1	871.1	901.3	961.8	1062.6	1189.6
62.5°	717.8	736.0	738.0	746.0	738.0	736.0	746.0	772.3	802.5	879.1	977.9
65°	602.9	613.0	615.0	625.1	621.0	621.0	629.1	649.3	667.4	719.8	796.5
67.5°	528.3	524.2	526.3	532.3	526.3	524.2	530.3	542.4	556.5	588.8	643.2
70°	469.8	465.8	465.8	465.8	457.7	451.7	453.7	457.7	463.8	481.9	516.2
72.5°	425.4	425.4	419.4	413.3	407.3	403.3	399.2	395.2	393.2	399.2	417.4
75°	385.1	387.1	385.1	379.1	371.0	362.9	354.9	346.8	336.7	332.7	334.7
77.5°	348.8	350.8	352.9	350.8	342.8	332.7	320.6	308.5	294.4	280.3	272.2
80°	316.6	320.6	322.6	320.6	314.5	306.5	292.4	278.3	258.1	239.9	219.8
82.5°	288.3	294.4	296.4	296.4	292.4	284.3	268.2	252.0	229.9	205.7	179.5
85°	266.2	270.2	274.2	274.2	272.2	264.1	248.0	229.9	207.7	179.5	151.2
87.5°	244.0	246.0	250.0	254.1	250.0	242.0	227.8	207.7	185.5	157.3	125.0
90°	221.8	223.8	227.8	231.9	229.9	221.8	209.7	191.6	167.4	137.1	104.8
92.5°	199.6	203.7	205.7	207.7	209.7	203.7	193.6	175.4	151.2	121.0	90.7
95°	183.5	183.5	187.5	189.5	191.6	185.5	177.4	159.3	137.1	108.9	78.6
97.5°	167.4	167.4	171.4	171.4	173.4	169.4	161.3	145.2	123.0	96.8	66.5
100°	151.2	153.2	155.3	157.3	157.3	155.3	147.2	131.1	110.9	86.7	58.5
102.5°	141.1	141.1	143.2	143.2	145.2	141.1	133.1	119.0	98.8	76.6	50.4
105°	131.1	131.1	133.1	133.1	131.1	127.0	119.0	106.9	88.7	66.5	44.4
107.5°	123.0	123.0	123.0	123.0	121.0	116.9	108.9	94.8	78.6	60.5	40.3
110°	116.9	114.9	114.9	112.9	110.9	104.8	96.8	84.7	70.6	52.4	34.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-112SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	110.9	108.9	106.9	104.8	100.8	94.8	86.7	76.6	62.5	46.4	30.2
115°	104.8	102.8	100.8	96.8	92.8	86.7	78.6	68.6	54.4	40.3	26.2
117.5°	98.8	96.8	92.8	88.7	84.7	78.6	70.6	60.5	48.4	36.3	24.2
120°	90.7	88.7	86.7	82.7	78.6	70.6	62.5	54.4	42.3	32.3	20.2
122.5°	84.7	82.7	78.6	76.6	70.6	64.5	56.5	48.4	38.3	28.2	18.1
125°	76.6	74.6	72.6	68.6	64.5	56.5	50.4	42.3	34.3	24.2	14.1
127.5°	70.6	68.6	64.5	60.5	56.5	50.4	44.4	38.3	30.2	20.2	14.1
130°	62.5	60.5	58.5	54.4	50.4	44.4	40.3	32.3	26.2	18.1	12.1
132.5°	54.4	54.4	52.4	48.4	44.4	40.3	34.3	28.2	22.2	16.1	10.1
135°	50.4	48.4	46.4	42.3	40.3	34.3	30.2	24.2	18.1	14.1	8.1
137.5°	44.4	42.3	40.3	38.3	34.3	30.2	26.2	20.2	16.1	12.1	8.1
140°	38.3	36.3	36.3	32.3	30.2	26.2	22.2	18.1	14.1	10.1	6.0
142.5°	34.3	32.3	30.2	28.2	26.2	22.2	18.1	14.1	12.1	8.1	6.0
145°	30.2	28.2	26.2	24.2	22.2	18.1	16.1	12.1	10.1	8.1	6.0
147.5°	24.2	24.2	22.2	20.2	18.1	16.1	14.1	12.1	8.1	6.0	4.0
150°	20.2	20.2	18.1	16.1	16.1	14.1	12.1	10.1	8.1	6.0	4.0
152.5°	18.1	16.1	16.1	14.1	14.1	12.1	10.1	8.1	6.0	6.0	4.0
155°	14.1	14.1	14.1	12.1	12.1	10.1	8.1	8.1	6.0	4.0	4.0
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-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3903.6	3903.6	3903.6	3903.6	3903.6	3903.6	3903.6	3903.6	3903.6	3903.6	3903.6
2.5°	3909.7	3885.5	3905.6	3941.9	3937.9	3933.9	3929.8	3937.9	3964.1	3950.0	3927.8
5°	3903.6	3879.4	3901.6	3935.9	3933.9	3927.8	3923.8	3931.9	3958.1	3944.0	3919.8
7.5°	3891.5	3869.4	3885.5	3919.8	3919.8	3915.7	3911.7	3919.8	3944.0	3931.9	3907.7
10°	3871.4	3855.2	3871.4	3903.6	3905.6	3897.6	3893.5	3903.6	3927.8	3921.8	3901.6
12.5°	3855.2	3839.1	3857.3	3889.5	3891.5	3883.5	3877.4	3889.5	3921.8	3925.8	3919.8
15°	3833.1	3818.9	3841.1	3875.4	3875.4	3869.4	3869.4	3885.5	3929.8	3948.0	3958.1
17.5°	3800.8	3790.7	3816.9	3851.2	3853.2	3849.2	3851.2	3883.5	3941.9	3986.3	4014.5
20°	3760.5	3756.4	3784.7	3821.0	3827.0	3829.0	3839.1	3887.5	3968.2	4028.6	4056.9
22.5°	3712.1	3714.1	3746.4	3784.7	3792.7	3798.8	3818.9	3887.5	3988.3	4052.8	4064.9
25°	3657.6	3663.7	3698.0	3744.3	3754.4	3766.5	3800.8	3889.5	3994.4	4036.7	4016.5
27.5°	3599.2	3611.3	3655.6	3704.0	3716.1	3736.3	3780.6	3877.4	3966.1	3968.2	3893.5
30°	3538.7	3552.8	3605.2	3661.7	3681.8	3702.0	3756.4	3849.2	3897.6	3833.1	3702.0
32.5°	3470.1	3490.3	3542.7	3611.3	3635.5	3661.7	3716.1	3794.7	3776.6	3637.5	3450.0
35°	3383.4	3411.6	3472.1	3552.8	3575.0	3609.2	3647.6	3665.7	3585.0	3387.4	3175.7
37.5°	3276.5	3318.9	3389.5	3482.2	3506.4	3528.6	3538.7	3488.3	3327.0	3113.2	2893.4
40°	3153.6	3218.1	3294.7	3397.5	3421.7	3421.7	3385.4	3278.6	3074.9	2794.6	2550.7
42.5°	3004.3	3083.0	3179.8	3282.6	3306.8	3278.6	3191.9	3004.3	2772.5	2459.9	2201.8
45°	2822.9	2927.7	3036.6	3143.5	3155.6	3093.1	2937.8	2699.9	2413.6	2123.2	1877.2
47.5°	2607.1	2744.2	2863.2	2984.2	2968.0	2863.2	2655.5	2385.3	2082.9	1808.7	1611.1
50°	2365.2	2526.5	2659.6	2774.5	2740.2	2595.0	2351.1	2068.8	1768.3	1534.4	1371.1
52.5°	2107.1	2292.6	2425.7	2518.4	2472.0	2298.6	2030.5	1760.3	1514.3	1300.5	1191.7
55°	1838.9	2026.4	2163.5	2236.1	2175.6	1988.1	1724.0	1478.0	1246.1	1107.0	1042.4
57.5°	1578.8	1754.2	1883.3	1941.7	1865.1	1677.6	1433.6	1225.9	1058.6	941.6	909.4
60°	1328.8	1471.9	1594.9	1639.3	1556.6	1383.2	1173.5	1008.2	885.2	804.5	788.4
62.5°	1096.9	1213.8	1310.6	1344.9	1264.2	1129.1	947.7	824.7	738.0	697.7	677.5
65°	905.3	973.9	1072.7	1066.6	1018.3	893.2	760.2	673.5	617.0	590.8	578.7
67.5°	711.8	774.3	836.8	844.8	784.4	697.7	611.0	548.4	518.2	504.1	498.0
70°	550.5	596.8	635.1	625.1	592.8	538.4	483.9	449.6	437.5	431.5	431.5
72.5°	427.5	451.7	469.8	457.7	437.5	409.3	383.1	369.0	371.0	375.0	379.1
75°	330.7	336.7	340.8	328.7	324.6	306.5	304.5	306.5	318.6	330.7	336.7
77.5°	254.1	246.0	239.9	227.8	229.9	227.8	237.9	254.1	272.2	290.4	306.5
80°	195.6	177.4	163.3	151.2	157.3	167.4	187.5	211.7	235.9	256.1	276.2
82.5°	151.2	125.0	104.8	92.8	104.8	121.0	147.2	177.4	205.7	227.8	250.0
85°	116.9	86.7	62.5	50.4	62.5	86.7	114.9	149.2	179.5	203.7	225.8
87.5°	90.7	62.5	34.3	20.2	34.3	60.5	92.8	125.0	155.3	183.5	205.7
90°	72.6	42.3	16.1	4.0	18.1	42.3	72.6	104.8	135.1	165.3	187.5
92.5°	58.5	30.2	8.1	0.0	10.1	32.3	60.5	90.7	121.0	149.2	171.4
95°	48.4	24.2	6.0	0.0	8.1	24.2	48.4	78.6	106.9	135.1	153.2
97.5°	40.3	18.1	4.0	0.0	4.0	20.2	40.3	66.5	94.8	121.0	139.1
100°	34.3	16.1	4.0	0.0	4.0	16.1	34.3	58.5	82.7	106.9	125.0
102.5°	28.2	12.1	2.0	2.0	2.0	12.1	30.2	50.4	72.6	94.8	112.9
105°	26.2	10.1	2.0	2.0	2.0	10.1	26.2	44.4	64.5	84.7	100.8
107.5°	22.2	8.1	2.0	2.0	2.0	8.1	22.2	38.3	58.5	76.6	90.7
110°	18.1	8.1	2.0	2.0	2.0	8.1	18.1	34.3	50.4	66.5	80.7



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-112SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	16.1	6.0	2.0	2.0	2.0	6.0	16.1	30.2	44.4	60.5	72.6
115°	14.1	6.0	2.0	2.0	2.0	6.0	14.1	26.2	38.3	52.4	64.5
117.5°	12.1	6.0	2.0	2.0	2.0	4.0	12.1	22.2	34.3	46.4	58.5
120°	10.1	4.0	2.0	2.0	2.0	4.0	10.1	20.2	30.2	40.3	50.4
122.5°	10.1	4.0	2.0	2.0	2.0	4.0	8.1	16.1	26.2	34.3	44.4
125°	8.1	4.0	2.0	2.0	2.0	2.0	8.1	14.1	22.2	30.2	38.3
127.5°	8.1	4.0	2.0	2.0	2.0	2.0	6.0	12.1	18.1	26.2	34.3
130°	6.0	4.0	2.0	2.0	2.0	2.0	4.0	10.1	16.1	22.2	28.2
132.5°	6.0	4.0	2.0	2.0	2.0	2.0	4.0	8.1	12.1	18.1	24.2
135°	6.0	2.0	2.0	2.0	2.0	2.0	2.0	6.0	10.1	14.1	18.1
137.5°	4.0	2.0	2.0	2.0	2.0	2.0	2.0	4.0	8.1	10.1	16.1
140°	4.0	2.0	2.0	2.0	2.0	2.0	2.0	4.0	6.0	8.1	12.1
142.5°	4.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	4.0	6.0	10.1
145°	4.0	2.0	2.0	4.0	4.0	2.0	2.0	4.0	4.0	6.0	8.1
147.5°	4.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	4.0	4.0	6.0
150°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	6.0
152.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
155°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
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-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3903.6	3903.6	3903.6	3903.6	3903.6	3903.6	3903.6	3903.6	3903.6	3903.6	3903.6
2.5°	3923.8	3877.4	3901.6	3893.5	3901.6	3921.8	3919.8	3913.7	3917.7	3907.7	3897.6
5°	3915.7	3869.4	3893.5	3883.5	3893.5	3913.7	3909.7	3903.6	3909.7	3897.6	3887.5
7.5°	3905.6	3863.3	3891.5	3889.5	3907.7	3933.9	3935.9	3935.9	3950.0	3931.9	3923.8
10°	3905.6	3883.5	3921.8	3935.9	3982.3	4016.5	4020.6	4028.6	4052.8	4048.8	4028.6
12.5°	3948.0	3944.0	4000.4	4034.7	4077.0	4125.4	4151.6	4159.7	4175.8	4163.7	4155.7
15°	4002.4	4022.6	4085.1	4123.4	4169.8	4206.1	4212.1	4216.2	4228.3	4210.1	4196.0
17.5°	4075.0	4087.1	4137.5	4153.7	4183.9	4190.0	4181.9	4161.7	4161.7	4121.4	4109.3
20°	4109.3	4103.2	4123.4	4097.2	4085.1	4048.8	4014.5	3976.2	3974.2	3931.9	3927.8
22.5°	4079.1	4038.7	3996.4	3931.9	3903.6	3851.2	3804.8	3782.7	3768.5	3714.1	3700.0
25°	3972.2	3873.4	3810.9	3734.3	3665.7	3605.2	3560.9	3514.5	3470.1	3425.8	3405.6
27.5°	3786.7	3693.9	3593.1	3486.2	3391.5	3298.7	3224.1	3177.7	3135.4	3076.9	3046.7
30°	3558.8	3429.8	3318.9	3216.1	3060.8	2947.9	2885.4	2792.6	2760.4	2734.2	2677.7
32.5°	3290.7	3135.4	2984.2	2845.1	2685.8	2580.9	2498.2	2429.7	2409.5	2341.0	2324.8
35°	2994.3	2790.6	2619.2	2482.1	2367.2	2240.2	2171.6	2125.2	2084.9	2038.5	2030.5
37.5°	2645.4	2461.9	2268.4	2147.4	2056.7	1947.8	1895.4	1863.1	1844.9	1810.7	1804.6
40°	2294.6	2111.1	1978.0	1857.0	1800.6	1742.1	1703.8	1689.7	1681.6	1669.5	1657.4
42.5°	1976.0	1814.7	1719.9	1639.3	1615.1	1586.9	1576.8	1584.8	1576.8	1572.7	1570.7
45°	1705.8	1582.8	1516.3	1492.1	1486.0	1478.0	1486.0	1500.2	1502.2	1498.1	1498.1
47.5°	1459.8	1401.4	1373.1	1377.2	1387.2	1393.3	1407.4	1425.6	1429.6	1419.5	1423.5
50°	1298.5	1264.2	1258.2	1274.3	1296.5	1304.6	1320.7	1334.8	1332.8	1328.8	1324.7
52.5°	1147.3	1137.2	1153.3	1169.5	1193.7	1197.7	1203.8	1209.8	1207.8	1199.7	1195.7
55°	1020.3	1028.3	1042.4	1048.5	1066.6	1064.6	1066.6	1066.6	1058.6	1054.5	1048.5
57.5°	905.3	907.4	915.4	917.4	927.5	923.5	921.5	917.4	905.3	903.3	897.3
60°	788.4	784.4	802.5	788.4	796.5	788.4	786.4	776.3	764.2	762.2	758.1
62.5°	677.5	669.4	681.5	675.5	679.5	671.4	667.4	655.3	645.2	643.2	641.2
65°	578.7	574.7	586.8	584.7	588.8	578.7	574.7	566.6	558.5	556.5	554.5
67.5°	496.0	506.1	512.1	512.1	516.2	514.2	504.1	502.1	500.1	492.0	492.0
70°	435.5	441.6	453.7	455.7	453.7	457.7	449.6	447.6	445.6	441.6	439.6
72.5°	387.1	395.2	407.3	409.3	407.3	407.3	403.3	401.3	401.3	395.2	395.2
75°	348.8	358.9	369.0	369.0	369.0	365.0	360.9	360.9	356.9	354.9	350.8
77.5°	316.6	328.7	336.7	334.7	332.7	328.7	328.7	322.6	316.6	316.6	312.5
80°	292.4	300.4	306.5	304.5	302.5	296.4	294.4	288.3	284.3	278.3	278.3
82.5°	266.2	276.2	280.3	278.3	274.2	268.2	266.2	262.1	258.1	256.1	252.0
85°	244.0	254.1	256.1	252.0	248.0	244.0	242.0	239.9	237.9	233.9	233.9
87.5°	221.8	231.9	231.9	229.9	225.8	223.8	221.8	219.8	217.8	215.7	213.7
90°	203.7	211.7	211.7	209.7	207.7	205.7	203.7	201.6	199.6	197.6	197.6
92.5°	185.5	193.6	193.6	191.6	189.5	187.5	187.5	185.5	183.5	181.5	179.5
95°	169.4	177.4	177.4	177.4	175.4	173.4	173.4	171.4	169.4	169.4	167.4
97.5°	153.2	161.3	161.3	161.3	159.3	157.3	157.3	155.3	155.3	155.3	153.2
100°	139.1	145.2	147.2	147.2	145.2	145.2	145.2	143.2	143.2	143.2	141.1
102.5°	125.0	131.1	135.1	135.1	135.1	133.1	133.1	133.1	133.1	133.1	131.1
105°	112.9	119.0	123.0	125.0	125.0	125.0	125.0	125.0	125.0	125.0	125.0
107.5°	102.8	108.9	112.9	114.9	116.9	116.9	119.0	119.0	119.0	119.0	119.0
110°	92.8	98.8	104.8	106.9	108.9	110.9	110.9	112.9	110.9	110.9	110.9



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-112SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	82.7	90.7	94.8	98.8	100.8	102.8	104.8	104.8	104.8	104.8	104.8
115°	74.6	82.7	86.7	90.7	94.8	96.8	96.8	98.8	98.8	98.8	96.8
117.5°	66.5	74.6	78.6	82.7	84.7	88.7	90.7	90.7	90.7	90.7	88.7
120°	60.5	66.5	70.6	74.6	78.6	80.7	82.7	82.7	82.7	82.7	82.7
122.5°	52.4	58.5	64.5	68.6	70.6	72.6	74.6	74.6	74.6	74.6	74.6
125°	46.4	52.4	56.5	60.5	62.5	66.5	66.5	66.5	66.5	66.5	66.5
127.5°	40.3	46.4	50.4	54.4	56.5	58.5	60.5	60.5	60.5	60.5	60.5
130°	34.3	40.3	44.4	48.4	50.4	52.4	52.4	54.4	54.4	54.4	54.4
132.5°	30.2	34.3	38.3	42.3	44.4	46.4	46.4	48.4	48.4	48.4	48.4
135°	24.2	30.2	32.3	36.3	38.3	40.3	40.3	42.3	42.3	42.3	42.3
137.5°	20.2	24.2	28.2	32.3	34.3	34.3	36.3	36.3	38.3	38.3	38.3
140°	16.1	18.1	24.2	26.2	28.2	30.2	32.3	32.3	32.3	32.3	32.3
142.5°	12.1	16.1	18.1	22.2	24.2	26.2	28.2	28.2	28.2	28.2	28.2
145°	10.1	12.1	14.1	18.1	20.2	22.2	24.2	24.2	24.2	24.2	24.2
147.5°	8.1	10.1	12.1	14.1	16.1	18.1	20.2	20.2	20.2	20.2	20.2
150°	6.0	8.1	10.1	10.1	12.1	14.1	16.1	18.1	18.1	18.1	18.1
152.5°	6.0	6.0	8.1	8.1	10.1	12.1	14.1	14.1	14.1	14.1	14.1
155°	4.0	6.0	6.0	6.0	8.1	8.1	10.1	12.1	12.1	12.1	12.1
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-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3903.6	3903.6	3903.6	3903.6	3903.6	3903.6	3903.6	3903.6	3903.6	3903.6	3903.6
2.5°	3903.6	3911.7	3907.7	3901.6	3899.6	3909.7	3899.6	3853.2	3871.4	3873.4	3887.5
5°	3897.6	3903.6	3899.6	3895.6	3889.5	3901.6	3889.5	3841.1	3859.3	3861.3	3875.4
7.5°	3937.9	3939.9	3939.9	3929.8	3913.7	3919.8	3903.6	3849.2	3859.3	3859.3	3869.4
10°	4038.7	4042.8	4048.8	4022.6	4002.4	3986.3	3964.1	3897.6	3895.6	3879.4	3879.4
12.5°	4169.8	4159.7	4149.6	4137.5	4121.4	4101.2	4069.0	3990.3	3964.1	3937.9	3911.7
15°	4208.1	4204.1	4202.0	4196.0	4185.9	4179.9	4155.7	4077.0	4038.7	4006.5	3960.1
17.5°	4107.3	4115.3	4141.6	4143.6	4155.7	4179.9	4175.8	4121.4	4087.1	4073.0	4016.5
20°	3925.8	3927.8	3960.1	3974.2	4026.6	4067.0	4097.2	4091.2	4083.1	4099.2	4056.9
22.5°	3708.0	3722.2	3756.4	3778.6	3829.0	3875.4	3923.8	3950.0	3992.3	4058.9	4050.8
25°	3411.6	3429.8	3478.2	3514.5	3585.0	3655.6	3720.1	3766.5	3816.9	3944.0	3986.3
27.5°	3056.8	3085.0	3147.5	3183.8	3282.6	3355.2	3447.9	3538.7	3609.2	3754.4	3841.1
30°	2683.7	2707.9	2774.5	2824.9	2909.6	3008.4	3125.3	3254.4	3371.3	3518.5	3627.4
32.5°	2334.9	2361.1	2415.6	2459.9	2554.7	2637.4	2766.4	2925.7	3034.6	3238.2	3383.4
35°	2030.5	2054.6	2093.0	2131.3	2209.9	2294.6	2405.5	2560.7	2699.9	2911.6	3095.1
37.5°	1816.7	1820.8	1842.9	1865.1	1923.6	1988.1	2074.8	2211.9	2341.0	2568.8	2770.4
40°	1663.5	1663.5	1675.6	1681.6	1707.8	1746.1	1800.6	1907.5	2014.3	2187.7	2433.7
42.5°	1568.7	1564.7	1564.7	1566.7	1564.7	1582.8	1615.1	1665.5	1760.3	1903.4	2095.0
45°	1498.1	1490.1	1484.0	1469.9	1461.8	1461.8	1463.9	1482.0	1536.4	1629.2	1784.5
47.5°	1419.5	1417.5	1407.4	1391.3	1377.2	1367.1	1350.9	1344.9	1361.0	1413.5	1518.3
50°	1328.8	1318.7	1308.6	1296.5	1280.4	1270.3	1240.0	1242.1	1228.0	1252.1	1306.6
52.5°	1195.7	1187.6	1183.6	1173.5	1167.5	1163.4	1139.2	1115.0	1109.0	1113.0	1133.2
55°	1048.5	1052.5	1036.4	1044.5	1042.4	1024.3	1014.2	996.1	990.0	988.0	998.1
57.5°	895.3	899.3	889.2	897.3	897.3	887.2	881.1	881.1	867.0	854.9	869.0
60°	756.1	748.1	754.1	764.2	764.2	758.1	754.1	754.1	744.0	740.0	750.1
62.5°	643.2	635.1	641.2	651.3	653.3	649.3	645.2	645.2	633.1	633.1	641.2
65°	556.5	558.5	556.5	564.6	564.6	566.6	562.6	558.5	544.4	550.5	548.4
67.5°	494.0	492.0	492.0	500.1	498.0	502.1	498.0	492.0	481.9	473.8	471.8
70°	441.6	439.6	439.6	443.6	445.6	445.6	443.6	439.6	425.4	417.4	411.3
72.5°	395.2	393.2	395.2	397.2	399.2	401.3	399.2	395.2	383.1	373.0	362.9
75°	352.9	350.8	356.9	356.9	358.9	358.9	360.9	358.9	348.8	336.7	324.6
77.5°	310.5	312.5	318.6	320.6	324.6	326.6	328.7	328.7	318.6	308.5	292.4
80°	276.2	280.3	284.3	286.3	290.4	296.4	298.4	300.4	292.4	282.3	264.1
82.5°	252.0	254.1	258.1	260.1	266.2	268.2	270.2	274.2	270.2	260.1	239.9
85°	231.9	233.9	237.9	237.9	242.0	246.0	248.0	250.0	248.0	237.9	217.8
87.5°	213.7	215.7	217.8	219.8	221.8	223.8	225.8	227.8	225.8	215.7	197.6
90°	197.6	197.6	199.6	199.6	201.6	203.7	207.7	207.7	205.7	197.6	179.5
92.5°	179.5	181.5	181.5	183.5	185.5	187.5	189.5	189.5	187.5	179.5	163.3
95°	167.4	167.4	169.4	169.4	171.4	171.4	173.4	173.4	171.4	163.3	147.2
97.5°	153.2	153.2	153.2	153.2	155.3	155.3	157.3	157.3	155.3	147.2	133.1
100°	141.1	141.1	141.1	141.1	141.1	143.2	143.2	143.2	141.1	133.1	119.0
102.5°	131.1	131.1	131.1	131.1	131.1	131.1	131.1	131.1	127.0	121.0	106.9
105°	125.0	125.0	125.0	123.0	123.0	123.0	121.0	121.0	114.9	108.9	96.8
107.5°	116.9	116.9	116.9	114.9	114.9	112.9	110.9	110.9	104.8	98.8	86.7
110°	110.9	110.9	110.9	108.9	106.9	104.8	102.8	100.8	94.8	86.7	76.6



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-112SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	104.8	104.8	102.8	102.8	100.8	98.8	94.8	92.8	86.7	78.6	68.6
115°	96.8	96.8	96.8	94.8	92.8	90.7	88.7	84.7	78.6	70.6	60.5
117.5°	88.7	88.7	88.7	86.7	84.7	82.7	80.7	76.6	70.6	62.5	54.4
120°	80.7	80.7	80.7	78.6	76.6	74.6	72.6	68.6	62.5	56.5	46.4
122.5°	74.6	74.6	72.6	70.6	68.6	66.5	64.5	60.5	56.5	48.4	40.3
125°	66.5	66.5	64.5	64.5	62.5	60.5	58.5	54.4	48.4	42.3	36.3
127.5°	60.5	58.5	58.5	58.5	56.5	54.4	50.4	48.4	42.3	36.3	30.2
130°	52.4	52.4	52.4	50.4	50.4	48.4	44.4	40.3	36.3	32.3	26.2
132.5°	46.4	46.4	46.4	46.4	44.4	42.3	38.3	36.3	32.3	26.2	22.2
135°	42.3	42.3	40.3	40.3	38.3	36.3	34.3	30.2	26.2	22.2	18.1
137.5°	36.3	36.3	36.3	34.3	34.3	32.3	28.2	26.2	24.2	20.2	16.1
140°	32.3	32.3	30.2	30.2	28.2	28.2	26.2	22.2	20.2	16.1	14.1
142.5°	28.2	28.2	26.2	26.2	24.2	24.2	22.2	20.2	16.1	14.1	10.1
145°	24.2	24.2	22.2	22.2	22.2	20.2	18.1	16.1	14.1	12.1	10.1
147.5°	20.2	20.2	20.2	18.1	18.1	16.1	16.1	14.1	12.1	10.1	8.1
150°	18.1	18.1	16.1	16.1	16.1	14.1	12.1	12.1	10.1	8.1	6.0
152.5°	14.1	14.1	14.1	14.1	12.1	12.1	10.1	10.1	8.1	6.0	6.0
155°	12.1	12.1	12.1	10.1	10.1	10.1	8.1	8.1	6.0	6.0	4.0
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-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3903.6	3903.6	3903.6	3903.6	3903.6	3903.6	3903.6
2.5°	3881.5	3879.4	3897.6	3895.6	3871.4	3907.7	3931.9
5°	3871.4	3869.4	3885.5	3889.5	3863.3	3901.6	3927.8
7.5°	3863.3	3861.3	3879.4	3885.5	3859.3	3893.5	3921.8
10°	3865.3	3855.2	3871.4	3875.4	3851.2	3887.5	3911.7
12.5°	3879.4	3855.2	3861.3	3861.3	3839.1	3871.4	3897.6
15°	3913.7	3863.3	3855.2	3849.2	3821.0	3851.2	3877.4
17.5°	3952.0	3883.5	3855.2	3835.1	3800.8	3827.0	3855.2
20°	3990.3	3905.6	3859.3	3827.0	3780.6	3804.8	3825.0
22.5°	4008.5	3925.8	3863.3	3814.9	3756.4	3768.5	3790.7
25°	3984.3	3917.7	3855.2	3796.8	3726.2	3728.2	3746.4
27.5°	3895.6	3877.4	3837.1	3778.6	3702.0	3691.9	3706.0
30°	3744.3	3794.7	3796.8	3754.4	3673.8	3653.6	3659.7
32.5°	3532.6	3645.5	3712.1	3704.0	3633.4	3605.2	3609.2
35°	3288.6	3429.8	3575.0	3623.4	3573.0	3550.8	3542.7
37.5°	2996.3	3185.8	3379.4	3498.3	3490.3	3476.2	3468.1
40°	2673.7	2901.5	3131.4	3320.9	3379.4	3379.4	3383.4
42.5°	2328.9	2595.0	2847.1	3087.0	3224.1	3254.4	3266.5
45°	1996.2	2264.3	2538.6	2814.8	2998.3	3093.1	3127.3
47.5°	1693.7	1963.9	2224.0	2526.5	2770.4	2893.4	2947.9
50°	1435.6	1637.3	1911.5	2211.9	2478.1	2629.3	2736.2
52.5°	1221.9	1379.2	1619.1	1899.4	2167.6	2375.2	2474.0
55°	1042.4	1149.3	1353.0	1594.9	1851.0	2066.7	2181.7
57.5°	891.2	975.9	1115.0	1316.7	1532.4	1746.1	1869.1
60°	758.1	816.6	911.4	1070.7	1254.2	1437.6	1556.6
62.5°	643.2	681.5	744.0	861.0	1004.1	1147.3	1258.2
65°	554.5	570.6	604.9	677.5	786.4	895.3	990.0
67.5°	467.8	477.9	504.1	548.4	602.9	681.5	744.0
70°	403.3	403.3	405.3	431.5	459.7	510.1	554.5
72.5°	350.8	344.8	332.7	338.7	344.8	373.0	401.3
75°	308.5	294.4	274.2	266.2	262.1	266.2	282.3
77.5°	272.2	252.0	227.8	207.7	191.6	185.5	199.6
80°	242.0	217.8	189.5	163.3	137.1	123.0	129.0
82.5°	217.8	187.5	157.3	127.0	96.8	76.6	76.6
85°	191.6	163.3	131.1	98.8	68.6	42.3	38.3
87.5°	173.4	143.2	108.9	78.6	48.4	22.2	12.1
90°	155.3	125.0	92.8	62.5	34.3	10.1	0.0
92.5°	139.1	110.9	80.7	50.4	24.2	6.0	0.0
95°	125.0	98.8	68.6	42.3	20.2	4.0	2.0
97.5°	110.9	86.7	60.5	34.3	14.1	4.0	2.0
100°	100.8	76.6	52.4	28.2	12.1	2.0	2.0
102.5°	88.7	68.6	44.4	24.2	10.1	2.0	2.0
105°	78.6	60.5	38.3	20.2	8.1	2.0	2.0
107.5°	70.6	52.4	34.3	18.1	8.1	2.0	2.0
110°	62.5	46.4	30.2	16.1	6.0	2.0	2.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-112SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	56.5	40.3	26.2	14.1	4.0	2.0	2.0
115°	48.4	36.3	22.2	12.1	4.0	2.0	2.0
117.5°	42.3	30.2	20.2	10.1	4.0	2.0	2.0
120°	36.3	26.2	16.1	8.1	2.0	2.0	2.0
122.5°	32.3	22.2	14.1	8.1	2.0	2.0	2.0
125°	28.2	20.2	12.1	6.0	2.0	2.0	2.0
127.5°	24.2	16.1	10.1	4.0	2.0	2.0	2.0
130°	20.2	14.1	8.1	4.0	2.0	2.0	2.0
132.5°	16.1	12.1	8.1	4.0	2.0	2.0	2.0
135°	14.1	10.1	6.0	4.0	2.0	2.0	2.0
137.5°	12.1	8.1	4.0	4.0	4.0	2.0	2.0
140°	10.1	6.0	4.0	4.0	4.0	4.0	2.0
142.5°	8.1	6.0	4.0	4.0	4.0	4.0	2.0
145°	6.0	4.0	4.0	4.0	4.0	4.0	2.0
147.5°	6.0	4.0	4.0	4.0	4.0	4.0	2.0
150°	4.0	4.0	4.0	4.0	4.0	4.0	4.0
152.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0
155°	4.0	4.0	4.0	4.0	4.0	4.0	4.0
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)