

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-LD5-90SL-LC-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33518)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNLED-LD5-90SL-LC-UNV-L950-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
CLEAR LENSED
Light Source: -
Ballast/Driver: -

Summary

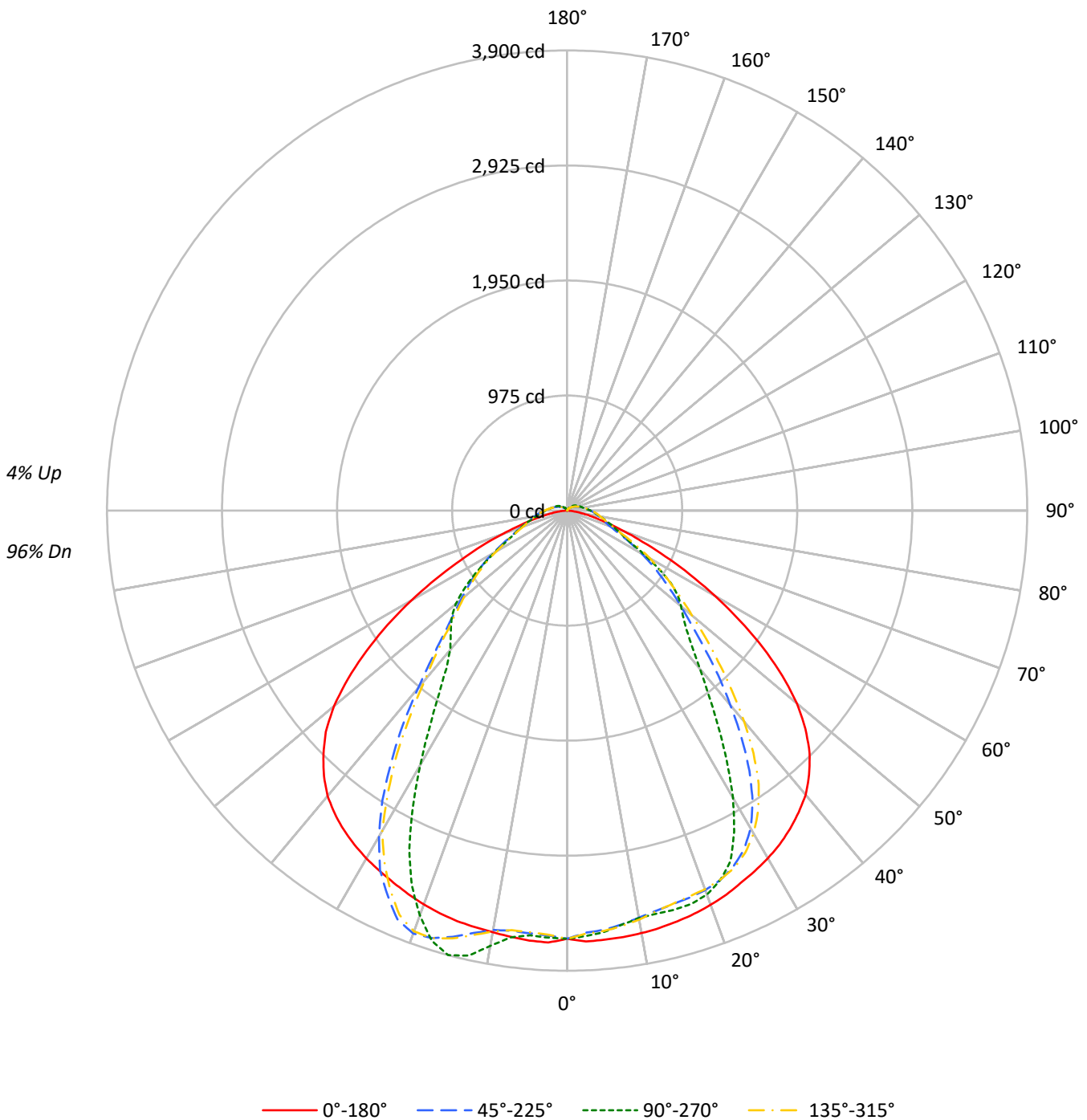
Lumens per Lamp: N/A
Luminaire Lumens: 8650.0 lumens
Efficiency: N/A
Efficacy: 125.4 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 69
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-LD5-90SL-LC-UNV-L950-CD1-U

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	118	118	118	118	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°	14661	14661	14661	14661
5°	14788	14079	14818	14190
10°	14877	13494	14846	14410
15°	15013	13314	15005	14824
20°	15201	13102	15185	13811
25°	15413	12430	15404	12010
30°	15729	10773	15738	9544
35°	16067	8711	16112	7372
40°	16373	7014	16441	6180
45°	16355	5941	16439	5785
50°	15695	5470	15914	5348
55°	13974	4916	14322	4469
60°	11384	3763	11989	3451
65°	8512	2879	9172	2730
70°	5838	2485	6581	2376
75°	3871	2243	4506	2120
80°	2563	2090	3005	1923
85°	1400	2086	1845	1905



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.7	4.0
10°-20°	1025.5	11.9
20°-30°	1559.0	18.0
30°-40°	1672.5	19.3
40°-50°	1451.5	16.8
50°-60°	1075.7	12.4
60°-70°	616.4	7.1
70°-80°	341.3	3.9
80°-90°	207.8	2.4
90°-100°	135.2	1.6
100°-110°	90.5	1.0
110°-120°	61.1	0.7
120°-130°	37.5	0.4
130°-140°	19.7	0.2
140°-150°	9.0	0.1
150°-160°	2.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2929.2	33.9
0°-40°	4601.6	53.2
0°-60°	7128.9	82.4
0°-90°	8294.4	95.9
90°-120°	286.8	3.3
90°-150°	353.0	4.1
90°-180°	356.0	4.1
0°-180°	8650.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3628	3628	3628	3628	3628	
5°	3651	3585	3658	3614	3651	348
15°	3604	3503	3602	3900	3604	1020
25°	3482	3276	3480	3166	3482	1610
35°	3293	2230	3302	1887	3293	2061
45°	2907	1430	2922	1392	2907	2226
55°	2028	1072	2078	975	2028	1798
65°	920	544	992	515	920	928
75°	262	345	306	326	262	300
85°	36	238	47	217	36	47
90°	0	199	4	184	0	2
95°	2	163	0	156	2	1
105°	2	122	2	116	2	2
115°	2	99	2	90	2	2
125°	2	75	2	62	2	2
135°	2	47	2	39	2	1
145°	2	28	4	22	2	1
155°	4	13	4	11	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-LD5-90SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5
2.5°	3654.7	3645.3	3641.6	3634.1	3639.7	3662.2	3647.2	3622.8	3624.7	3581.6	3604.1
5°	3650.9	3639.7	3634.1	3626.6	3630.3	3650.9	3636.0	3611.6	3609.7	3566.6	3587.2
7.5°	3645.3	3634.1	3624.7	3619.1	3621.0	3637.8	3619.1	3591.0	3585.3	3538.5	3557.2
10°	3636.0	3628.5	3615.3	3606.0	3604.1	3622.8	3592.8	3564.7	3551.6	3502.9	3521.6
12.5°	3622.8	3611.6	3598.5	3581.6	3579.7	3591.0	3566.6	3527.2	3514.1	3474.8	3495.4
15°	3604.1	3591.0	3576.0	3557.2	3547.9	3555.4	3525.4	3489.8	3487.9	3454.2	3482.3
17.5°	3583.5	3564.7	3547.9	3521.6	3508.5	3514.1	3489.8	3457.9	3461.7	3441.0	3472.9
20°	3555.4	3534.7	3508.5	3482.3	3463.5	3472.9	3456.0	3431.7	3437.3	3422.3	3450.4
22.5°	3523.5	3495.4	3463.5	3433.5	3418.5	3431.7	3418.5	3397.9	3399.8	3390.4	3407.3
25°	3482.3	3450.4	3412.9	3375.4	3367.9	3377.3	3369.8	3352.9	3345.5	3330.5	3338.0
27.5°	3444.8	3409.2	3362.3	3323.0	3309.8	3328.6	3311.7	3283.6	3263.0	3242.4	3227.4
30°	3401.7	3358.6	3306.1	3261.1	3249.9	3257.4	3233.0	3189.9	3135.5	3109.3	3068.1
32.5°	3354.8	3298.6	3233.0	3182.4	3174.9	3169.3	3124.3	3062.4	2978.1	2925.6	2861.9
35°	3293.0	3231.1	3152.4	3090.6	3079.3	3047.5	2974.4	2891.9	2783.2	2693.2	2584.5
37.5°	3223.6	3150.5	3068.1	2985.6	2953.7	2890.0	2786.9	2700.7	2535.8	2427.1	2295.9
40°	3144.9	3056.8	2955.6	2856.3	2803.8	2700.7	2582.7	2455.2	2295.9	2149.7	2039.1
42.5°	3036.2	2942.5	2822.5	2712.0	2622.0	2485.2	2346.5	2166.6	2020.4	1896.7	1784.2
45°	2906.9	2794.4	2655.7	2522.7	2408.3	2245.3	2082.2	1902.3	1780.5	1636.2	1559.3
47.5°	2740.1	2618.3	2470.2	2322.1	2172.2	1992.3	1821.7	1649.3	1527.5	1424.4	1368.2
50°	2543.3	2430.8	2267.8	2091.6	1926.7	1739.3	1568.7	1439.4	1321.3	1257.6	1214.5
52.5°	2299.6	2194.7	2027.9	1836.7	1677.4	1493.7	1338.2	1233.2	1148.9	1102.0	1087.0
55°	2027.9	1936.1	1771.1	1593.1	1430.0	1261.3	1143.3	1051.4	997.1	969.0	970.8
57.5°	1737.4	1666.2	1510.6	1351.3	1197.6	1070.2	963.3	890.2	849.0	847.1	852.8
60°	1446.9	1394.4	1259.5	1122.6	987.7	884.6	805.9	755.3	729.1	730.9	729.1
62.5°	1169.5	1120.8	1023.3	910.9	804.0	734.7	663.5	642.9	620.4	618.5	618.5
65°	920.2	882.7	804.0	723.4	642.9	597.9	562.3	537.9	521.0	517.3	519.2
67.5°	691.6	676.6	622.2	567.9	517.3	489.2	459.2	453.6	440.4	440.4	444.2
70°	515.4	504.2	474.2	442.3	421.7	403.0	388.0	388.0	386.1	384.2	393.6
72.5°	373.0	374.8	365.5	341.1	339.2	335.5	331.7	337.4	339.2	344.9	356.1
75°	262.4	268.0	268.0	264.3	271.8	281.1	286.8	296.1	307.4	314.9	328.0
77.5°	185.5	185.5	194.9	206.2	221.2	238.0	253.0	266.1	281.1	290.5	301.7
80°	119.9	125.6	140.6	161.2	181.8	204.3	224.9	241.8	256.8	271.8	279.3
82.5°	71.2	80.6	99.3	125.6	151.8	179.9	200.5	221.2	238.0	253.0	258.6
85°	35.6	48.7	71.2	99.3	127.4	157.4	183.7	202.4	221.2	234.3	241.8
87.5°	11.2	26.2	50.6	76.8	106.8	136.8	164.9	185.5	202.4	213.7	221.2
90°	0.0	13.1	35.6	63.7	91.8	121.8	148.1	170.6	187.4	196.8	202.4
92.5°	0.0	7.5	28.1	52.5	78.7	108.7	134.9	155.6	170.6	179.9	183.7
95°	1.9	5.6	20.6	43.1	69.3	97.5	121.8	140.6	155.6	164.9	166.8
97.5°	1.9	3.7	16.9	35.6	60.0	86.2	110.6	129.3	140.6	149.9	151.8
100°	1.9	3.7	13.1	31.9	52.5	76.8	99.3	116.2	129.3	136.8	138.7
102.5°	1.9	1.9	11.2	26.2	46.9	67.5	88.1	105.0	116.2	123.7	127.4
105°	1.9	1.9	9.4	22.5	41.2	60.0	78.7	95.6	105.0	112.5	116.2
107.5°	1.9	1.9	7.5	18.7	35.6	52.5	71.2	84.3	95.6	103.1	106.8
110°	1.9	1.9	5.6	16.9	30.0	46.9	61.8	75.0	86.2	93.7	97.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.9	1.9	5.6	15.0	26.2	41.2	54.4	67.5	76.8	84.3	90.0
115°	1.9	1.9	5.6	13.1	24.4	35.6	48.7	60.0	69.3	76.8	82.5
117.5°	1.9	1.9	5.6	11.2	20.6	31.9	43.1	54.4	61.8	69.3	75.0
120°	1.9	1.9	3.7	9.4	18.7	28.1	37.5	46.9	56.2	63.7	69.3
122.5°	1.9	1.9	3.7	9.4	15.0	24.4	33.7	41.2	50.6	56.2	61.8
125°	1.9	1.9	3.7	7.5	13.1	22.5	30.0	37.5	43.1	50.6	56.2
127.5°	1.9	1.9	3.7	7.5	11.2	18.7	26.2	33.7	39.4	45.0	48.7
130°	1.9	1.9	3.7	5.6	9.4	15.0	22.5	28.1	35.6	39.4	43.1
132.5°	1.9	1.9	1.9	5.6	7.5	11.2	16.9	24.4	30.0	35.6	37.5
135°	1.9	1.9	1.9	3.7	7.5	9.4	13.1	18.7	24.4	30.0	33.7
137.5°	1.9	1.9	1.9	3.7	5.6	9.4	11.2	15.0	20.6	24.4	30.0
140°	1.9	1.9	1.9	3.7	5.6	7.5	9.4	13.1	16.9	20.6	24.4
142.5°	1.9	1.9	1.9	3.7	3.7	5.6	7.5	11.2	13.1	16.9	20.6
145°	1.9	1.9	1.9	3.7	3.7	5.6	7.5	9.4	11.2	13.1	16.9
147.5°	1.9	1.9	1.9	3.7	3.7	3.7	5.6	7.5	9.4	11.2	13.1
150°	3.7	3.7	3.7	3.7	3.7	3.7	5.6	5.6	7.5	9.4	11.2
152.5°	3.7	3.7	3.7	3.7	3.7	3.7	5.6	5.6	5.6	7.5	9.4
155°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	5.6	5.6	7.5	7.5
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°	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5
2.5°	3596.6	3600.3	3622.8	3621.0	3617.2	3613.5	3613.5	3609.7	3613.5	3622.8	3619.1
5°	3577.9	3583.5	3600.3	3598.5	3594.7	3592.8	3591.0	3585.3	3589.1	3602.2	3598.5
7.5°	3544.1	3549.7	3564.7	3557.2	3551.6	3555.4	3546.0	3540.4	3547.9	3561.0	3559.1
10°	3508.5	3512.3	3531.0	3527.2	3517.9	3519.8	3510.4	3506.6	3516.0	3523.5	3525.4
12.5°	3484.1	3497.3	3514.1	3512.3	3510.4	3512.3	3502.9	3499.1	3504.8	3512.3	3510.4
15°	3478.5	3495.4	3514.1	3514.1	3516.0	3517.9	3508.5	3502.9	3508.5	3514.1	3512.3
17.5°	3472.9	3493.5	3510.4	3508.5	3510.4	3514.1	3499.1	3495.4	3502.9	3510.4	3506.6
20°	3454.2	3472.9	3484.1	3480.4	3480.4	3482.3	3463.5	3463.5	3474.8	3480.4	3482.3
22.5°	3401.7	3424.2	3424.2	3414.8	3414.8	3407.3	3401.7	3390.4	3403.6	3412.9	3420.4
25°	3323.0	3332.3	3321.1	3300.5	3289.2	3279.9	3253.6	3276.1	3276.1	3304.2	3313.6
27.5°	3212.4	3191.8	3159.9	3116.8	3107.4	3077.4	3060.6	3066.2	3075.6	3114.9	3144.9
30°	3030.6	2968.7	2914.4	2895.6	2854.4	2824.4	2794.4	2809.4	2826.3	2848.8	2910.6
32.5°	2790.7	2730.7	2642.6	2610.8	2567.7	2530.2	2494.6	2517.1	2547.0	2562.0	2629.5
35°	2515.2	2444.0	2363.4	2309.0	2264.0	2243.4	2198.4	2230.3	2262.2	2273.4	2331.5
37.5°	2222.8	2149.7	2078.5	2031.6	1988.5	1975.4	1945.4	1967.9	1992.3	2009.1	2057.9
40°	1945.4	1878.0	1823.6	1791.7	1761.8	1750.5	1739.3	1748.6	1767.4	1780.5	1818.0
42.5°	1707.4	1653.0	1615.6	1596.8	1576.2	1561.2	1563.1	1566.8	1576.2	1604.3	1621.2
45°	1499.4	1467.5	1443.1	1439.4	1426.3	1424.4	1422.5	1430.0	1435.6	1452.5	1465.6
47.5°	1332.6	1319.4	1313.8	1321.3	1326.9	1319.4	1323.2	1332.6	1343.8	1343.8	1341.9
50°	1201.4	1205.1	1212.6	1229.5	1240.7	1244.5	1248.2	1259.5	1261.3	1265.1	1259.5
52.5°	1094.5	1098.3	1118.9	1145.1	1158.3	1163.9	1171.4	1182.6	1182.6	1186.4	1178.9
55°	985.8	991.5	1012.1	1038.3	1049.6	1057.1	1064.5	1072.0	1077.7	1085.2	1079.5
57.5°	865.9	882.7	895.9	903.4	910.9	916.5	922.1	924.0	935.2	937.1	946.5
60°	738.4	742.2	755.3	753.4	747.8	762.8	755.3	768.4	781.5	798.4	800.3
62.5°	616.6	618.5	627.9	624.1	631.6	629.7	635.4	635.4	644.7	652.2	661.6
65°	521.0	522.9	530.4	530.4	528.5	534.1	539.8	543.5	543.5	549.1	556.6
67.5°	449.8	455.4	462.9	466.7	470.4	470.4	476.0	477.9	481.7	483.5	487.3
70°	401.1	408.6	416.1	419.8	421.7	425.4	427.3	427.3	431.1	432.9	436.7
72.5°	365.5	373.0	378.6	378.6	382.3	384.2	384.2	386.1	388.0	391.7	395.5
75°	335.5	341.1	344.9	343.0	343.0	343.0	344.9	344.9	348.6	352.4	356.1
77.5°	307.4	313.0	313.0	309.2	309.2	309.2	309.2	311.1	313.0	316.7	320.5
80°	286.8	286.8	284.9	284.9	281.1	279.3	279.3	281.1	281.1	284.9	290.5
82.5°	264.3	264.3	262.4	260.5	258.6	256.8	256.8	258.6	260.5	262.4	266.1
85°	243.6	243.6	239.9	239.9	238.0	238.0	238.0	238.0	239.9	241.8	245.5
87.5°	223.0	221.2	219.3	217.4	217.4	217.4	217.4	217.4	219.3	223.0	224.9
90°	202.4	200.5	198.7	198.7	196.8	196.8	198.7	198.7	200.5	202.4	204.3
92.5°	183.7	181.8	179.9	179.9	178.0	178.0	179.9	178.0	181.8	181.8	183.7
95°	166.8	164.9	163.1	163.1	163.1	163.1	163.1	163.1	164.9	164.9	166.8
97.5°	151.8	149.9	148.1	148.1	149.9	148.1	149.9	149.9	149.9	151.8	153.7
100°	138.7	136.8	136.8	138.7	136.8	136.8	138.7	138.7	138.7	138.7	140.6
102.5°	127.4	127.4	127.4	127.4	127.4	127.4	129.3	129.3	129.3	129.3	131.2
105°	116.2	118.1	118.1	118.1	119.9	119.9	119.9	121.8	121.8	121.8	121.8
107.5°	108.7	110.6	110.6	112.5	112.5	114.3	114.3	114.3	114.3	116.2	116.2
110°	101.2	103.1	105.0	106.8	106.8	108.7	108.7	108.7	108.7	108.7	108.7



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-90SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	93.7	95.6	97.5	101.2	103.1	103.1	103.1	103.1	105.0	105.0	103.1
115°	86.2	90.0	91.8	95.6	97.5	97.5	99.3	99.3	99.3	99.3	97.5
117.5°	78.7	84.3	86.2	90.0	91.8	91.8	93.7	93.7	93.7	93.7	91.8
120°	73.1	76.8	80.6	82.5	84.3	86.2	86.2	88.1	88.1	88.1	86.2
122.5°	67.5	71.2	75.0	76.8	78.7	80.6	80.6	80.6	80.6	80.6	80.6
125°	60.0	63.7	67.5	69.3	71.2	73.1	73.1	75.0	75.0	75.0	73.1
127.5°	54.4	58.1	60.0	63.7	65.6	65.6	67.5	67.5	67.5	67.5	65.6
130°	46.9	50.6	54.4	56.2	58.1	58.1	60.0	60.0	60.0	60.0	60.0
132.5°	41.2	45.0	46.9	50.6	50.6	52.5	52.5	54.4	54.4	54.4	52.5
135°	37.5	39.4	41.2	45.0	45.0	46.9	46.9	46.9	46.9	46.9	46.9
137.5°	33.7	35.6	37.5	39.4	39.4	41.2	41.2	41.2	41.2	43.1	41.2
140°	28.1	31.9	33.7	33.7	35.6	35.6	35.6	37.5	37.5	37.5	35.6
142.5°	24.4	26.2	28.1	30.0	31.9	31.9	31.9	31.9	33.7	31.9	31.9
145°	18.7	22.5	24.4	26.2	28.1	28.1	28.1	28.1	28.1	28.1	28.1
147.5°	15.0	16.9	20.6	22.5	22.5	24.4	24.4	24.4	24.4	24.4	24.4
150°	13.1	13.1	16.9	18.7	20.6	20.6	20.6	20.6	20.6	20.6	20.6
152.5°	9.4	11.2	13.1	15.0	16.9	16.9	16.9	16.9	16.9	16.9	16.9
155°	9.4	9.4	11.2	11.2	13.1	13.1	13.1	13.1	15.0	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-LD5-90SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5
2.5°	3613.5	3611.6	3619.1	3611.6	3574.1	3589.1	3583.5	3604.1	3606.0	3611.6	3630.3
5°	3594.7	3594.7	3604.1	3596.6	3561.0	3576.0	3574.1	3594.7	3598.5	3602.2	3622.8
7.5°	3557.2	3559.1	3572.2	3566.6	3529.1	3551.6	3549.7	3574.1	3581.6	3589.1	3607.8
10°	3521.6	3519.8	3534.7	3529.1	3493.5	3519.8	3517.9	3542.2	3553.5	3566.6	3589.1
12.5°	3502.9	3497.3	3502.9	3497.3	3457.9	3478.5	3480.4	3508.5	3521.6	3538.5	3564.7
15°	3502.9	3493.5	3493.5	3482.3	3437.3	3450.4	3452.3	3471.0	3487.9	3504.8	3536.6
17.5°	3499.1	3489.8	3487.9	3478.5	3429.8	3429.8	3427.9	3441.0	3450.4	3467.3	3501.0
20°	3478.5	3474.8	3472.9	3467.3	3422.3	3414.8	3411.0	3411.0	3416.7	3422.3	3456.0
22.5°	3424.2	3427.9	3431.7	3435.4	3399.8	3386.7	3388.6	3384.8	3379.2	3379.2	3407.3
25°	3323.0	3341.7	3356.7	3373.6	3352.9	3343.6	3354.8	3349.2	3339.8	3332.3	3356.7
27.5°	3161.8	3201.1	3233.0	3274.2	3276.1	3268.6	3298.6	3294.8	3293.0	3281.7	3300.5
30°	2938.7	3000.6	3043.7	3103.7	3154.3	3161.8	3212.4	3219.9	3227.4	3221.8	3240.5
32.5°	2668.9	2753.2	2826.3	2920.0	2968.7	3011.8	3083.1	3113.0	3143.0	3152.4	3173.0
35°	2374.6	2470.2	2556.4	2659.5	2736.3	2830.0	2916.3	2961.2	3028.7	3054.9	3084.9
37.5°	2095.4	2185.3	2269.7	2372.7	2496.4	2593.9	2700.7	2801.9	2893.8	2931.3	2976.2
40°	1848.0	1921.1	2001.6	2091.6	2204.1	2331.5	2447.7	2588.3	2697.0	2771.9	2837.5
42.5°	1660.5	1696.2	1765.5	1846.1	1936.1	2065.4	2183.4	2340.9	2472.1	2578.9	2687.6
45°	1493.7	1510.6	1561.2	1604.3	1696.2	1810.5	1936.1	2089.7	2226.6	2363.4	2494.6
47.5°	1351.3	1371.9	1396.3	1422.5	1488.1	1583.7	1692.4	1831.1	1967.9	2127.2	2277.2
50°	1255.7	1261.3	1265.1	1276.3	1315.7	1381.3	1469.4	1587.4	1718.6	1889.2	2048.5
52.5°	1171.4	1171.4	1160.1	1154.5	1169.5	1210.7	1261.3	1345.7	1480.6	1638.1	1806.7
55°	1081.4	1064.5	1060.8	1042.1	1045.8	1064.5	1088.9	1154.5	1265.1	1400.0	1563.1
57.5°	955.8	948.3	948.3	940.8	925.9	935.2	940.8	987.7	1066.4	1182.6	1325.1
60°	811.5	807.8	817.2	819.0	805.9	811.5	809.7	837.8	894.0	987.7	1105.8
62.5°	667.2	684.1	686.0	693.5	686.0	684.1	693.5	717.8	745.9	817.2	909.0
65°	560.4	569.8	571.6	581.0	577.3	577.3	584.8	603.5	620.4	669.1	740.3
67.5°	491.0	487.3	489.2	494.8	489.2	487.3	492.9	504.2	517.3	547.3	597.9
70°	436.7	432.9	432.9	432.9	425.4	419.8	421.7	425.4	431.1	447.9	479.8
72.5°	395.5	395.5	389.8	384.2	378.6	374.8	371.1	367.3	365.5	371.1	388.0
75°	358.0	359.8	358.0	352.4	344.9	337.4	329.9	322.4	313.0	309.2	311.1
77.5°	324.2	326.1	328.0	326.1	318.6	309.2	298.0	286.8	273.6	260.5	253.0
80°	294.2	298.0	299.9	298.0	292.4	284.9	271.8	258.6	239.9	223.0	204.3
82.5°	268.0	273.6	275.5	275.5	271.8	264.3	249.3	234.3	213.7	191.2	166.8
85°	247.4	251.1	254.9	254.9	253.0	245.5	230.5	213.7	193.0	166.8	140.6
87.5°	226.8	228.7	232.4	236.1	232.4	224.9	211.8	193.0	172.4	146.2	116.2
90°	206.2	208.0	211.8	215.5	213.7	206.2	194.9	178.0	155.6	127.4	97.5
92.5°	185.5	189.3	191.2	193.0	194.9	189.3	179.9	163.1	140.6	112.5	84.3
95°	170.6	170.6	174.3	176.2	178.0	172.4	164.9	148.1	127.4	101.2	73.1
97.5°	155.6	155.6	159.3	159.3	161.2	157.4	149.9	134.9	114.3	90.0	61.8
100°	140.6	142.4	144.3	146.2	146.2	144.3	136.8	121.8	103.1	80.6	54.4
102.5°	131.2	131.2	133.1	133.1	134.9	131.2	123.7	110.6	91.8	71.2	46.9
105°	121.8	121.8	123.7	123.7	121.8	118.1	110.6	99.3	82.5	61.8	41.2
107.5°	114.3	114.3	114.3	114.3	112.5	108.7	101.2	88.1	73.1	56.2	37.5
110°	108.7	106.8	106.8	105.0	103.1	97.5	90.0	78.7	65.6	48.7	31.9



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-90SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	103.1	101.2	99.3	97.5	93.7	88.1	80.6	71.2	58.1	43.1	28.1
115°	97.5	95.6	93.7	90.0	86.2	80.6	73.1	63.7	50.6	37.5	24.4
117.5°	91.8	90.0	86.2	82.5	78.7	73.1	65.6	56.2	45.0	33.7	22.5
120°	84.3	82.5	80.6	76.8	73.1	65.6	58.1	50.6	39.4	30.0	18.7
122.5°	78.7	76.8	73.1	71.2	65.6	60.0	52.5	45.0	35.6	26.2	16.9
125°	71.2	69.3	67.5	63.7	60.0	52.5	46.9	39.4	31.9	22.5	13.1
127.5°	65.6	63.7	60.0	56.2	52.5	46.9	41.2	35.6	28.1	18.7	13.1
130°	58.1	56.2	54.4	50.6	46.9	41.2	37.5	30.0	24.4	16.9	11.2
132.5°	50.6	50.6	48.7	45.0	41.2	37.5	31.9	26.2	20.6	15.0	9.4
135°	46.9	45.0	43.1	39.4	37.5	31.9	28.1	22.5	16.9	13.1	7.5
137.5°	41.2	39.4	37.5	35.6	31.9	28.1	24.4	18.7	15.0	11.2	7.5
140°	35.6	33.7	33.7	30.0	28.1	24.4	20.6	16.9	13.1	9.4	5.6
142.5°	31.9	30.0	28.1	26.2	24.4	20.6	16.9	13.1	11.2	7.5	5.6
145°	28.1	26.2	24.4	22.5	20.6	16.9	15.0	11.2	9.4	7.5	5.6
147.5°	22.5	22.5	20.6	18.7	16.9	15.0	13.1	11.2	7.5	5.6	3.7
150°	18.7	18.7	16.9	15.0	15.0	13.1	11.2	9.4	7.5	5.6	3.7
152.5°	16.9	15.0	15.0	13.1	13.1	11.2	9.4	7.5	5.6	5.6	3.7
155°	13.1	13.1	13.1	11.2	11.2	9.4	7.5	7.5	5.6	3.7	3.7
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-LD5-90SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5
2.5°	3634.1	3611.6	3630.3	3664.1	3660.3	3656.6	3652.8	3660.3	3684.7	3671.6	3650.9
5°	3628.5	3606.0	3626.6	3658.4	3656.6	3650.9	3647.2	3654.7	3679.1	3665.9	3643.4
7.5°	3617.2	3596.6	3611.6	3643.4	3643.4	3639.7	3636.0	3643.4	3665.9	3654.7	3632.2
10°	3598.5	3583.5	3598.5	3628.5	3630.3	3622.8	3619.1	3628.5	3650.9	3645.3	3626.6
12.5°	3583.5	3568.5	3585.3	3615.3	3617.2	3609.7	3604.1	3615.3	3645.3	3649.1	3643.4
15°	3562.9	3549.7	3570.4	3602.2	3602.2	3596.6	3596.6	3611.6	3652.8	3669.7	3679.1
17.5°	3532.9	3523.5	3547.9	3579.7	3581.6	3577.9	3579.7	3609.7	3664.1	3705.3	3731.5
20°	3495.4	3491.6	3517.9	3551.6	3557.2	3559.1	3568.5	3613.5	3688.4	3744.7	3770.9
22.5°	3450.4	3452.3	3482.3	3517.9	3525.4	3531.0	3549.7	3613.5	3707.2	3767.1	3778.4
25°	3399.8	3405.4	3437.3	3480.4	3489.8	3501.0	3532.9	3615.3	3712.8	3752.2	3733.4
27.5°	3345.5	3356.7	3397.9	3442.9	3454.2	3472.9	3514.1	3604.1	3686.6	3688.4	3619.1
30°	3289.2	3302.3	3351.1	3403.6	3422.3	3441.0	3491.6	3577.9	3622.8	3562.9	3441.0
32.5°	3225.5	3244.2	3293.0	3356.7	3379.2	3403.6	3454.2	3527.2	3510.4	3381.1	3206.8
35°	3144.9	3171.2	3227.4	3302.3	3323.0	3354.8	3390.4	3407.3	3332.3	3148.7	2951.9
37.5°	3045.6	3084.9	3150.5	3236.7	3259.2	3279.9	3289.2	3242.4	3092.4	2893.8	2689.5
40°	2931.3	2991.2	3062.4	3158.0	3180.5	3180.5	3146.8	3047.5	2858.2	2597.6	2370.9
42.5°	2792.6	2865.7	2955.6	3051.2	3073.7	3047.5	2966.9	2792.6	2577.0	2286.5	2046.6
45°	2623.9	2721.3	2822.5	2921.9	2933.1	2875.0	2730.7	2509.6	2243.4	1973.5	1744.9
47.5°	2423.3	2550.8	2661.4	2773.8	2758.8	2661.4	2468.3	2217.2	1936.1	1681.2	1497.5
50°	2198.4	2348.4	2472.1	2578.9	2547.0	2412.1	2185.3	1922.9	1643.7	1426.3	1274.5
52.5°	1958.5	2131.0	2254.7	2340.9	2297.8	2136.6	1887.3	1636.2	1407.5	1208.9	1107.7
55°	1709.3	1883.6	2011.0	2078.5	2022.3	1848.0	1602.4	1373.8	1158.3	1028.9	969.0
57.5°	1467.5	1630.6	1750.5	1804.9	1733.6	1559.3	1332.6	1139.5	984.0	875.3	845.3
60°	1235.1	1368.2	1482.5	1523.7	1446.9	1285.7	1090.8	937.1	822.8	747.8	732.8
62.5°	1019.6	1128.3	1218.2	1250.1	1175.1	1049.6	880.9	766.5	686.0	648.5	629.7
65°	841.5	905.2	997.1	991.5	946.5	830.3	706.6	626.0	573.5	549.1	537.9
67.5°	661.6	719.7	777.8	785.3	729.1	648.5	567.9	509.8	481.7	468.6	462.9
70°	511.7	554.8	590.4	581.0	551.0	500.4	449.8	417.9	406.7	401.1	401.1
72.5°	397.3	419.8	436.7	425.4	406.7	380.5	356.1	343.0	344.9	348.6	352.4
75°	307.4	313.0	316.7	305.5	301.7	284.9	283.0	284.9	296.1	307.4	313.0
77.5°	236.1	228.7	223.0	211.8	213.7	211.8	221.2	236.1	253.0	269.9	284.9
80°	181.8	164.9	151.8	140.6	146.2	155.6	174.3	196.8	219.3	238.0	256.8
82.5°	140.6	116.2	97.5	86.2	97.5	112.5	136.8	164.9	191.2	211.8	232.4
85°	108.7	80.6	58.1	46.9	58.1	80.6	106.8	138.7	166.8	189.3	209.9
87.5°	84.3	58.1	31.9	18.7	31.9	56.2	86.2	116.2	144.3	170.6	191.2
90°	67.5	39.4	15.0	3.7	16.9	39.4	67.5	97.5	125.6	153.7	174.3
92.5°	54.4	28.1	7.5	0.0	9.4	30.0	56.2	84.3	112.5	138.7	159.3
95°	45.0	22.5	5.6	0.0	7.5	22.5	45.0	73.1	99.3	125.6	142.4
97.5°	37.5	16.9	3.7	0.0	3.7	18.7	37.5	61.8	88.1	112.5	129.3
100°	31.9	15.0	3.7	0.0	3.7	15.0	31.9	54.4	76.8	99.3	116.2
102.5°	26.2	11.2	1.9	1.9	1.9	11.2	28.1	46.9	67.5	88.1	105.0
105°	24.4	9.4	1.9	1.9	1.9	9.4	24.4	41.2	60.0	78.7	93.7
107.5°	20.6	7.5	1.9	1.9	1.9	7.5	20.6	35.6	54.4	71.2	84.3
110°	16.9	7.5	1.9	1.9	1.9	7.5	16.9	31.9	46.9	61.8	75.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-90SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	15.0	5.6	1.9	1.9	1.9	5.6	15.0	28.1	41.2	56.2	67.5
115°	13.1	5.6	1.9	1.9	1.9	5.6	13.1	24.4	35.6	48.7	60.0
117.5°	11.2	5.6	1.9	1.9	1.9	3.7	11.2	20.6	31.9	43.1	54.4
120°	9.4	3.7	1.9	1.9	1.9	3.7	9.4	18.7	28.1	37.5	46.9
122.5°	9.4	3.7	1.9	1.9	1.9	3.7	7.5	15.0	24.4	31.9	41.2
125°	7.5	3.7	1.9	1.9	1.9	1.9	7.5	13.1	20.6	28.1	35.6
127.5°	7.5	3.7	1.9	1.9	1.9	1.9	5.6	11.2	16.9	24.4	31.9
130°	5.6	3.7	1.9	1.9	1.9	1.9	3.7	9.4	15.0	20.6	26.2
132.5°	5.6	3.7	1.9	1.9	1.9	1.9	3.7	7.5	11.2	16.9	22.5
135°	5.6	1.9	1.9	1.9	1.9	1.9	1.9	5.6	9.4	13.1	16.9
137.5°	3.7	1.9	1.9	1.9	1.9	1.9	1.9	3.7	7.5	9.4	15.0
140°	3.7	1.9	1.9	1.9	1.9	1.9	1.9	3.7	5.6	7.5	11.2
142.5°	3.7	1.9	1.9	1.9	1.9	1.9	1.9	1.9	3.7	5.6	9.4
145°	3.7	1.9	1.9	3.7	3.7	1.9	1.9	3.7	3.7	5.6	7.5
147.5°	3.7	1.9	1.9	1.9	1.9	1.9	1.9	1.9	3.7	3.7	5.6
150°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	5.6
152.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
155°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
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-LD5-90SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5
2.5°	3647.2	3604.1	3626.6	3619.1	3626.6	3645.3	3643.4	3637.8	3641.6	3632.2	3622.8
5°	3639.7	3596.6	3619.1	3609.7	3619.1	3637.8	3634.1	3628.5	3634.1	3622.8	3613.5
7.5°	3630.3	3591.0	3617.2	3615.3	3632.2	3656.6	3658.4	3658.4	3671.6	3654.7	3647.2
10°	3630.3	3609.7	3645.3	3658.4	3701.5	3733.4	3737.2	3744.7	3767.1	3763.4	3744.7
12.5°	3669.7	3665.9	3718.4	3750.3	3789.6	3834.6	3859.0	3866.5	3881.5	3870.2	3862.7
15°	3720.3	3739.0	3797.1	3832.7	3875.9	3909.6	3915.2	3919.0	3930.2	3913.3	3900.2
17.5°	3787.8	3799.0	3845.9	3860.9	3889.0	3894.6	3887.1	3868.4	3868.4	3830.9	3819.6
20°	3819.6	3814.0	3832.7	3808.4	3797.1	3763.4	3731.5	3695.9	3694.1	3654.7	3650.9
22.5°	3791.5	3754.0	3714.7	3654.7	3628.5	3579.7	3536.6	3516.0	3502.9	3452.3	3439.2
25°	3692.2	3600.3	3542.2	3471.0	3407.3	3351.1	3309.8	3266.7	3225.5	3184.3	3165.5
27.5°	3519.8	3433.5	3339.8	3240.5	3152.4	3066.2	2996.8	2953.7	2914.4	2860.0	2831.9
30°	3308.0	3188.0	3084.9	2989.4	2845.0	2740.1	2682.0	2595.8	2565.8	2541.4	2488.9
32.5°	3058.7	2914.4	2773.8	2644.5	2496.4	2399.0	2322.1	2258.4	2239.7	2175.9	2161.0
35°	2783.2	2593.9	2434.6	2307.1	2200.3	2082.2	2018.5	1975.4	1937.9	1894.8	1887.3
37.5°	2459.0	2288.4	2108.5	1996.0	1911.7	1810.5	1761.8	1731.8	1714.9	1683.0	1677.4
40°	2132.8	1962.3	1838.6	1726.1	1673.7	1619.3	1583.7	1570.6	1563.1	1551.8	1540.6
42.5°	1836.7	1686.8	1598.7	1523.7	1501.2	1475.0	1465.6	1473.1	1465.6	1461.9	1460.0
45°	1585.6	1471.2	1409.4	1386.9	1381.3	1373.8	1381.3	1394.4	1396.3	1392.5	1392.5
47.5°	1356.9	1302.6	1276.3	1280.1	1289.5	1295.1	1308.2	1325.1	1328.8	1319.4	1323.2
50°	1207.0	1175.1	1169.5	1184.5	1205.1	1212.6	1227.6	1240.7	1238.8	1235.1	1231.4
52.5°	1066.4	1057.1	1072.0	1087.0	1109.5	1113.3	1118.9	1124.5	1122.6	1115.2	1111.4
55°	948.3	955.8	969.0	974.6	991.5	989.6	991.5	991.5	984.0	980.2	974.6
57.5°	841.5	843.4	850.9	852.8	862.1	858.4	856.5	852.8	841.5	839.6	834.0
60°	732.8	729.1	745.9	732.8	740.3	732.8	730.9	721.6	710.3	708.4	704.7
62.5°	629.7	622.2	633.5	627.9	631.6	624.1	620.4	609.1	599.7	597.9	596.0
65°	537.9	534.1	545.4	543.5	547.3	537.9	534.1	526.7	519.2	517.3	515.4
67.5°	461.1	470.4	476.0	476.0	479.8	477.9	468.6	466.7	464.8	457.3	457.3
70°	404.8	410.5	421.7	423.6	421.7	425.4	417.9	416.1	414.2	410.5	408.6
72.5°	359.8	367.3	378.6	380.5	378.6	378.6	374.8	373.0	373.0	367.3	367.3
75°	324.2	333.6	343.0	343.0	343.0	339.2	335.5	335.5	331.7	329.9	326.1
77.5°	294.2	305.5	313.0	311.1	309.2	305.5	305.5	299.9	294.2	294.2	290.5
80°	271.8	279.3	284.9	283.0	281.1	275.5	273.6	268.0	264.3	258.6	258.6
82.5°	247.4	256.8	260.5	258.6	254.9	249.3	247.4	243.6	239.9	238.0	234.3
85°	226.8	236.1	238.0	234.3	230.5	226.8	224.9	223.0	221.2	217.4	217.4
87.5°	206.2	215.5	215.5	213.7	209.9	208.0	206.2	204.3	202.4	200.5	198.7
90°	189.3	196.8	196.8	194.9	193.0	191.2	189.3	187.4	185.5	183.7	183.7
92.5°	172.4	179.9	179.9	178.0	176.2	174.3	174.3	172.4	170.6	168.7	166.8
95°	157.4	164.9	164.9	164.9	163.1	161.2	161.2	159.3	157.4	157.4	155.6
97.5°	142.4	149.9	149.9	149.9	148.1	146.2	146.2	144.3	144.3	144.3	142.4
100°	129.3	134.9	136.8	136.8	134.9	134.9	134.9	133.1	133.1	133.1	131.2
102.5°	116.2	121.8	125.6	125.6	125.6	123.7	123.7	123.7	123.7	123.7	121.8
105°	105.0	110.6	114.3	116.2	116.2	116.2	116.2	116.2	116.2	116.2	116.2
107.5°	95.6	101.2	105.0	106.8	108.7	108.7	110.6	110.6	110.6	110.6	110.6
110°	86.2	91.8	97.5	99.3	101.2	103.1	103.1	105.0	103.1	103.1	103.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-90SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	76.8	84.3	88.1	91.8	93.7	95.6	97.5	97.5	97.5	97.5	97.5
115°	69.3	76.8	80.6	84.3	88.1	90.0	90.0	91.8	91.8	91.8	90.0
117.5°	61.8	69.3	73.1	76.8	78.7	82.5	84.3	84.3	84.3	84.3	82.5
120°	56.2	61.8	65.6	69.3	73.1	75.0	76.8	76.8	76.8	76.8	76.8
122.5°	48.7	54.4	60.0	63.7	65.6	67.5	69.3	69.3	69.3	69.3	69.3
125°	43.1	48.7	52.5	56.2	58.1	61.8	61.8	61.8	61.8	61.8	61.8
127.5°	37.5	43.1	46.9	50.6	52.5	54.4	56.2	56.2	56.2	56.2	56.2
130°	31.9	37.5	41.2	45.0	46.9	48.7	48.7	50.6	50.6	50.6	50.6
132.5°	28.1	31.9	35.6	39.4	41.2	43.1	43.1	45.0	45.0	45.0	45.0
135°	22.5	28.1	30.0	33.7	35.6	37.5	37.5	39.4	39.4	39.4	39.4
137.5°	18.7	22.5	26.2	30.0	31.9	31.9	33.7	33.7	35.6	35.6	35.6
140°	15.0	16.9	22.5	24.4	26.2	28.1	30.0	30.0	30.0	30.0	30.0
142.5°	11.2	15.0	16.9	20.6	22.5	24.4	26.2	26.2	26.2	26.2	26.2
145°	9.4	11.2	13.1	16.9	18.7	20.6	22.5	22.5	22.5	22.5	22.5
147.5°	7.5	9.4	11.2	13.1	15.0	16.9	18.7	18.7	18.7	18.7	18.7
150°	5.6	7.5	9.4	9.4	11.2	13.1	15.0	16.9	16.9	16.9	16.9
152.5°	5.6	5.6	7.5	7.5	9.4	11.2	13.1	13.1	13.1	13.1	13.1
155°	3.7	5.6	5.6	5.6	7.5	7.5	9.4	11.2	11.2	11.2	11.2
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-LD5-90SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5
2.5°	3628.5	3636.0	3632.2	3626.6	3624.7	3634.1	3624.7	3581.6	3598.5	3600.3	3613.5
5°	3622.8	3628.5	3624.7	3621.0	3615.3	3626.6	3615.3	3570.4	3587.2	3589.1	3602.2
7.5°	3660.3	3662.2	3662.2	3652.8	3637.8	3643.4	3628.5	3577.9	3587.2	3587.2	3596.6
10°	3754.0	3757.8	3763.4	3739.0	3720.3	3705.3	3684.7	3622.8	3621.0	3606.0	3606.0
12.5°	3875.9	3866.5	3857.1	3845.9	3830.9	3812.1	3782.1	3709.0	3684.7	3660.3	3636.0
15°	3911.5	3907.7	3905.8	3900.2	3890.8	3885.2	3862.7	3789.6	3754.0	3724.0	3680.9
17.5°	3817.8	3825.2	3849.6	3851.5	3862.7	3885.2	3881.5	3830.9	3799.0	3785.9	3733.4
20°	3649.1	3650.9	3680.9	3694.1	3742.8	3780.3	3808.4	3802.8	3795.3	3810.3	3770.9
22.5°	3446.7	3459.8	3491.6	3512.3	3559.1	3602.2	3647.2	3671.6	3710.9	3772.8	3765.3
25°	3171.2	3188.0	3233.0	3266.7	3332.3	3397.9	3457.9	3501.0	3547.9	3665.9	3705.3
27.5°	2841.3	2867.5	2925.6	2959.4	3051.2	3118.7	3204.9	3289.2	3354.8	3489.8	3570.4
30°	2494.6	2517.1	2578.9	2625.8	2704.5	2796.3	2905.0	3025.0	3133.7	3270.5	3371.7
32.5°	2170.3	2194.7	2245.3	2286.5	2374.6	2451.5	2571.4	2719.5	2820.7	3010.0	3144.9
35°	1887.3	1909.8	1945.4	1981.0	2054.1	2132.8	2235.9	2380.2	2509.6	2706.3	2876.9
37.5°	1688.7	1692.4	1713.0	1733.6	1788.0	1848.0	1928.6	2056.0	2175.9	2387.7	2575.2
40°	1546.2	1546.2	1557.5	1563.1	1587.4	1623.1	1673.7	1773.0	1872.3	2033.5	2262.2
42.5°	1458.1	1454.4	1454.4	1456.3	1454.4	1471.2	1501.2	1548.1	1636.2	1769.2	1947.3
45°	1392.5	1385.0	1379.4	1366.3	1358.8	1358.8	1360.7	1377.5	1428.1	1514.4	1658.7
47.5°	1319.4	1317.6	1308.2	1293.2	1280.1	1270.7	1255.7	1250.1	1265.1	1313.8	1411.3
50°	1235.1	1225.7	1216.4	1205.1	1190.1	1180.7	1152.6	1154.5	1141.4	1163.9	1214.5
52.5°	1111.4	1103.9	1100.2	1090.8	1085.2	1081.4	1058.9	1036.4	1030.8	1034.6	1053.3
55°	974.6	978.3	963.3	970.8	969.0	952.1	942.7	925.9	920.2	918.4	927.7
57.5°	832.1	835.9	826.5	834.0	834.0	824.6	819.0	819.0	805.9	794.7	807.8
60°	702.8	695.3	701.0	710.3	710.3	704.7	701.0	701.0	691.6	687.8	697.2
62.5°	597.9	590.4	596.0	605.4	607.2	603.5	599.7	599.7	588.5	588.5	596.0
65°	517.3	519.2	517.3	524.8	524.8	526.7	522.9	519.2	506.0	511.7	509.8
67.5°	459.2	457.3	457.3	464.8	462.9	466.7	462.9	457.3	447.9	440.4	438.6
70°	410.5	408.6	408.6	412.3	414.2	414.2	412.3	408.6	395.5	388.0	382.3
72.5°	367.3	365.5	367.3	369.2	371.1	373.0	371.1	367.3	356.1	346.7	337.4
75°	328.0	326.1	331.7	331.7	333.6	333.6	335.5	333.6	324.2	313.0	301.7
77.5°	288.6	290.5	296.1	298.0	301.7	303.6	305.5	305.5	296.1	286.8	271.8
80°	256.8	260.5	264.3	266.1	269.9	275.5	277.4	279.3	271.8	262.4	245.5
82.5°	234.3	236.1	239.9	241.8	247.4	249.3	251.1	254.9	251.1	241.8	223.0
85°	215.5	217.4	221.2	221.2	224.9	228.7	230.5	232.4	230.5	221.2	202.4
87.5°	198.7	200.5	202.4	204.3	206.2	208.0	209.9	211.8	209.9	200.5	183.7
90°	183.7	183.7	185.5	185.5	187.4	189.3	193.0	193.0	191.2	183.7	166.8
92.5°	166.8	168.7	168.7	170.6	172.4	174.3	176.2	176.2	174.3	166.8	151.8
95°	155.6	155.6	157.4	157.4	159.3	159.3	161.2	161.2	159.3	151.8	136.8
97.5°	142.4	142.4	142.4	142.4	144.3	144.3	146.2	146.2	144.3	136.8	123.7
100°	131.2	131.2	131.2	131.2	131.2	133.1	133.1	133.1	131.2	123.7	110.6
102.5°	121.8	121.8	121.8	121.8	121.8	121.8	121.8	121.8	118.1	112.5	99.3
105°	116.2	116.2	116.2	114.3	114.3	114.3	112.5	112.5	106.8	101.2	90.0
107.5°	108.7	108.7	108.7	106.8	106.8	105.0	103.1	103.1	97.5	91.8	80.6
110°	103.1	103.1	103.1	101.2	99.3	97.5	95.6	93.7	88.1	80.6	71.2



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-90SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	97.5	97.5	95.6	95.6	93.7	91.8	88.1	86.2	80.6	73.1	63.7
115°	90.0	90.0	90.0	88.1	86.2	84.3	82.5	78.7	73.1	65.6	56.2
117.5°	82.5	82.5	82.5	80.6	78.7	76.8	75.0	71.2	65.6	58.1	50.6
120°	75.0	75.0	75.0	73.1	71.2	69.3	67.5	63.7	58.1	52.5	43.1
122.5°	69.3	69.3	67.5	65.6	63.7	61.8	60.0	56.2	52.5	45.0	37.5
125°	61.8	61.8	60.0	60.0	58.1	56.2	54.4	50.6	45.0	39.4	33.7
127.5°	56.2	54.4	54.4	54.4	52.5	50.6	46.9	45.0	39.4	33.7	28.1
130°	48.7	48.7	48.7	46.9	46.9	45.0	41.2	37.5	33.7	30.0	24.4
132.5°	43.1	43.1	43.1	43.1	41.2	39.4	35.6	33.7	30.0	24.4	20.6
135°	39.4	39.4	37.5	37.5	35.6	33.7	31.9	28.1	24.4	20.6	16.9
137.5°	33.7	33.7	33.7	31.9	31.9	30.0	26.2	24.4	22.5	18.7	15.0
140°	30.0	30.0	28.1	28.1	26.2	26.2	24.4	20.6	18.7	15.0	13.1
142.5°	26.2	26.2	24.4	24.4	22.5	22.5	20.6	18.7	15.0	13.1	9.4
145°	22.5	22.5	20.6	20.6	20.6	18.7	16.9	15.0	13.1	11.2	9.4
147.5°	18.7	18.7	18.7	16.9	16.9	15.0	15.0	13.1	11.2	9.4	7.5
150°	16.9	16.9	15.0	15.0	15.0	13.1	11.2	11.2	9.4	7.5	5.6
152.5°	13.1	13.1	13.1	13.1	11.2	11.2	9.4	9.4	7.5	5.6	5.6
155°	11.2	11.2	11.2	9.4	9.4	9.4	7.5	7.5	5.6	5.6	3.7
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-LD5-90SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5	3628.5
2.5°	3607.8	3606.0	3622.8	3621.0	3598.5	3632.2	3654.7
5°	3598.5	3596.6	3611.6	3615.3	3591.0	3626.6	3650.9
7.5°	3591.0	3589.1	3606.0	3611.6	3587.2	3619.1	3645.3
10°	3592.8	3583.5	3598.5	3602.2	3579.7	3613.5	3636.0
12.5°	3606.0	3583.5	3589.1	3589.1	3568.5	3598.5	3622.8
15°	3637.8	3591.0	3583.5	3577.9	3551.6	3579.7	3604.1
17.5°	3673.4	3609.7	3583.5	3564.7	3532.9	3557.2	3583.5
20°	3709.0	3630.3	3587.2	3557.2	3514.1	3536.6	3555.4
22.5°	3725.9	3649.1	3591.0	3546.0	3491.6	3502.9	3523.5
25°	3703.4	3641.6	3583.5	3529.1	3463.5	3465.4	3482.3
27.5°	3621.0	3604.1	3566.6	3512.3	3441.0	3431.7	3444.8
30°	3480.4	3527.2	3529.1	3489.8	3414.8	3396.1	3401.7
32.5°	3283.6	3388.6	3450.4	3442.9	3377.3	3351.1	3354.8
35°	3056.8	3188.0	3323.0	3367.9	3321.1	3300.5	3293.0
37.5°	2785.1	2961.2	3141.2	3251.7	3244.2	3231.1	3223.6
40°	2485.2	2697.0	2910.6	3086.8	3141.2	3141.2	3144.9
42.5°	2164.7	2412.1	2646.4	2869.4	2996.8	3025.0	3036.2
45°	1855.5	2104.7	2359.6	2616.4	2786.9	2875.0	2906.9
47.5°	1574.3	1825.5	2067.2	2348.4	2575.2	2689.5	2740.1
50°	1334.4	1521.9	1776.7	2056.0	2303.4	2444.0	2543.3
52.5°	1135.8	1282.0	1505.0	1765.5	2014.8	2207.8	2299.6
55°	969.0	1068.3	1257.6	1482.5	1720.5	1921.1	2027.9
57.5°	828.4	907.1	1036.4	1223.9	1424.4	1623.1	1737.4
60°	704.7	759.1	847.1	995.2	1165.8	1336.3	1446.9
62.5°	597.9	633.5	691.6	800.3	933.4	1066.4	1169.5
65°	515.4	530.4	562.3	629.7	730.9	832.1	920.2
67.5°	434.8	444.2	468.6	509.8	560.4	633.5	691.6
70°	374.8	374.8	376.7	401.1	427.3	474.2	515.4
72.5°	326.1	320.5	309.2	314.9	320.5	346.7	373.0
75°	286.8	273.6	254.9	247.4	243.6	247.4	262.4
77.5°	253.0	234.3	211.8	193.0	178.0	172.4	185.5
80°	224.9	202.4	176.2	151.8	127.4	114.3	119.9
82.5°	202.4	174.3	146.2	118.1	90.0	71.2	71.2
85°	178.0	151.8	121.8	91.8	63.7	39.4	35.6
87.5°	161.2	133.1	101.2	73.1	45.0	20.6	11.2
90°	144.3	116.2	86.2	58.1	31.9	9.4	0.0
92.5°	129.3	103.1	75.0	46.9	22.5	5.6	0.0
95°	116.2	91.8	63.7	39.4	18.7	3.7	1.9
97.5°	103.1	80.6	56.2	31.9	13.1	3.7	1.9
100°	93.7	71.2	48.7	26.2	11.2	1.9	1.9
102.5°	82.5	63.7	41.2	22.5	9.4	1.9	1.9
105°	73.1	56.2	35.6	18.7	7.5	1.9	1.9
107.5°	65.6	48.7	31.9	16.9	7.5	1.9	1.9
110°	58.1	43.1	28.1	15.0	5.6	1.9	1.9



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-90SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	52.5	37.5	24.4	13.1	3.7	1.9	1.9
115°	45.0	33.7	20.6	11.2	3.7	1.9	1.9
117.5°	39.4	28.1	18.7	9.4	3.7	1.9	1.9
120°	33.7	24.4	15.0	7.5	1.9	1.9	1.9
122.5°	30.0	20.6	13.1	7.5	1.9	1.9	1.9
125°	26.2	18.7	11.2	5.6	1.9	1.9	1.9
127.5°	22.5	15.0	9.4	3.7	1.9	1.9	1.9
130°	18.7	13.1	7.5	3.7	1.9	1.9	1.9
132.5°	15.0	11.2	7.5	3.7	1.9	1.9	1.9
135°	13.1	9.4	5.6	3.7	1.9	1.9	1.9
137.5°	11.2	7.5	3.7	3.7	3.7	1.9	1.9
140°	9.4	5.6	3.7	3.7	3.7	3.7	1.9
142.5°	7.5	5.6	3.7	3.7	3.7	3.7	1.9
145°	5.6	3.7	3.7	3.7	3.7	3.7	1.9
147.5°	5.6	3.7	3.7	3.7	3.7	3.7	1.9
150°	3.7	3.7	3.7	3.7	3.7	3.7	3.7
152.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7
155°	3.7	3.7	3.7	3.7	3.7	3.7	3.7
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)