

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-LD5-98SL-LN-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 (P33519)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNLED-LD5-98SL-LN-UNV-L940-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

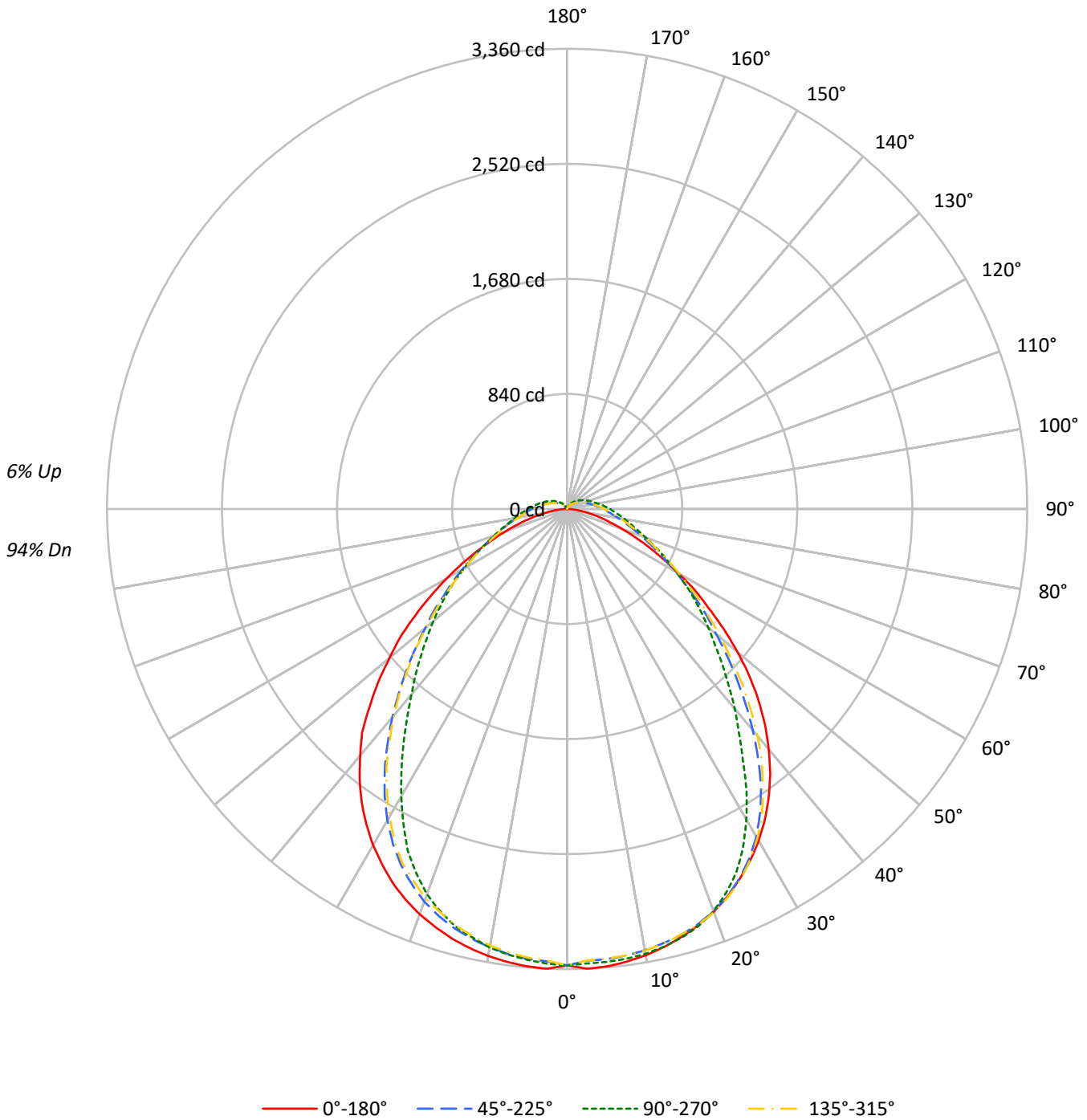
Lumens per Lamp: N/A
Luminaire Lumens: 8433.0 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 75
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#
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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94				
1	107	103	98	95	104	100	96	92	94	91	88	89	87	85	85	83	81	79				
2	98	90	84	78	95	88	82	77	83	78	74	79	75	72	75	72	69	67				
3	90	80	72	66	87	78	71	65	74	68	63	71	66	61	67	63	60	57				
4	83	72	63	57	80	70	62	56	67	60	55	64	58	53	61	56	52	50				
5	77	64	56	50	74	63	55	49	60	53	48	58	52	47	55	50	46	44				
6	71	58	50	44	69	57	49	43	55	48	42	52	46	42	50	45	41	39				
7	66	53	45	39	64	52	44	39	50	43	38	48	42	37	46	41	37	35				
8	62	49	41	35	60	48	40	35	46	39	34	44	38	34	43	37	33	31				
9	58	45	37	32	56	44	37	31	42	36	31	41	35	30	40	34	30	28				
10	54	42	34	29	53	41	34	29	39	33	28	38	32	28	37	31	27	26				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13464	13464	13464	13464
5°	13579	13035	13579	12977
10°	13537	12689	13559	12513
15°	13469	12310	13529	11989
20°	13385	11822	13463	11323
25°	13191	11099	13337	10445
30°	12933	10037	13103	9291
35°	12520	8734	12762	8133
40°	11919	7639	12234	7087
45°	11117	6640	11478	6260
50°	10010	5835	10451	5540
55°	8689	5153	9321	4892
60°	7341	4524	8004	4263
65°	6053	4000	6663	3709
70°	4858	3550	5439	3283
75°	3866	3278	4353	3015
80°	2860	3162	3369	2890
85°	1876	3180	2525	2923



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.9	3.7
10°-20°	905.9	10.7
20°-30°	1342.5	15.9
30°-40°	1491.5	17.7
40°-50°	1352.0	16.0
50°-60°	1047.7	12.4
60°-70°	711.5	8.4
70°-80°	452.6	5.4
80°-90°	289.4	3.4
90°-100°	195.1	2.3
100°-110°	133.6	1.6
110°-120°	89.1	1.1
120°-130°	55.4	0.7
130°-140°	30.7	0.4
140°-150°	14.4	0.2
150°-160°	5.3	0.1
160°-170°	0.3	0.0
170°-180°	0.0	0.0
0°-30°	2564.3	30.4
0°-40°	4055.8	48.1
0°-60°	6455.5	76.6
0°-90°	7909.0	93.8
90°-120°	417.9	5.0
90°-150°	518.4	6.1
90°-180°	524.0	6.2
0°-180°	8433.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3332	3332	3332	3332	3332	
5°	3352	3319	3352	3305	3352	318
15°	3233	3239	3248	3154	3233	913
25°	2980	2925	3013	2753	2980	1373
35°	2566	2236	2616	2082	2566	1601
45°	1976	1598	2040	1507	1976	1517
55°	1261	1124	1353	1067	1261	1135
65°	654	755	720	700	654	656
75°	262	504	295	464	262	282
85°	48	363	64	334	48	57
90°	0	313	4	286	0	3
95°	2	268	0	249	2	1
105°	2	196	0	185	2	2
115°	2	148	0	138	2	2
125°	2	110	2	97	2	2
135°	2	77	2	62	2	1
145°	2	50	2	35	2	1
155°	2	28	2	13	2	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°	3332.2	3332.2	3332.2	3332.2	3332.2	3332.2	3332.2	3332.2	3332.2	3332.2	3332.2
2.5°	3359.7	3356.1	3352.4	3346.9	3352.4	3367.1	3357.9	3337.7	3334.1	3301.1	3315.7
5°	3352.4	3346.9	3343.2	3337.7	3345.1	3363.4	3354.2	3335.9	3330.4	3299.2	3315.7
7.5°	3334.1	3330.4	3324.9	3324.9	3332.2	3350.6	3343.2	3323.1	3319.4	3288.2	3306.6
10°	3308.4	3306.6	3302.9	3302.9	3310.2	3332.2	3323.1	3304.7	3301.1	3271.7	3291.9
12.5°	3275.4	3277.2	3271.7	3271.7	3282.7	3304.7	3297.4	3277.2	3273.6	3247.9	3268.1
15°	3233.3	3235.1	3231.4	3233.3	3244.3	3269.9	3260.7	3242.4	3238.8	3218.6	3235.1
17.5°	3185.6	3187.4	3187.4	3185.6	3198.4	3224.1	3216.8	3200.3	3194.8	3178.3	3198.4
20°	3130.6	3130.6	3130.6	3130.6	3145.3	3170.9	3161.8	3148.9	3137.9	3125.1	3141.6
22.5°	3062.8	3061.0	3062.8	3068.3	3083.0	3103.1	3097.6	3083.0	3066.5	3059.1	3072.0
25°	2980.3	2985.8	2987.6	2993.1	3011.5	3028.0	3022.5	3007.8	2982.1	2976.6	2980.3
27.5°	2894.2	2897.8	2903.3	2901.5	2927.2	2943.7	2932.7	2919.8	2883.2	2877.7	2874.0
30°	2797.0	2802.5	2806.2	2804.4	2824.5	2842.8	2831.8	2815.4	2765.9	2762.2	2732.9
32.5°	2687.0	2692.5	2696.2	2696.2	2725.5	2732.9	2712.7	2688.9	2635.7	2622.9	2597.2
35°	2566.1	2571.6	2573.4	2573.4	2602.7	2600.9	2575.2	2542.2	2483.6	2467.1	2423.1
37.5°	2435.9	2439.6	2441.4	2452.4	2465.3	2454.3	2421.3	2379.1	2335.1	2289.3	2241.6
40°	2289.3	2294.8	2298.5	2305.8	2318.6	2305.8	2258.1	2206.8	2159.2	2107.8	2060.2
42.5°	2139.0	2155.5	2151.8	2150.0	2157.3	2122.5	2085.9	2027.2	1979.5	1926.4	1878.7
45°	1975.9	1974.0	1983.2	1986.9	1985.0	1955.7	1904.4	1851.2	1803.6	1748.6	1708.3
47.5°	1803.6	1801.8	1809.1	1812.7	1801.8	1770.6	1730.3	1669.8	1629.5	1581.8	1550.6
50°	1622.1	1622.1	1633.1	1622.1	1616.6	1585.5	1552.5	1492.0	1460.8	1418.7	1400.3
52.5°	1440.7	1457.2	1446.2	1442.5	1437.0	1405.8	1380.2	1330.7	1305.0	1286.7	1264.7
55°	1261.0	1279.4	1272.0	1266.5	1264.7	1239.0	1215.2	1178.6	1162.1	1149.2	1136.4
57.5°	1108.9	1107.1	1103.4	1097.9	1099.7	1079.6	1055.8	1035.6	1028.3	1022.8	1026.4
60°	933.0	947.6	942.1	943.9	945.8	942.1	922.0	909.1	911.0	912.8	918.3
62.5°	788.2	801.0	810.1	802.8	806.5	812.0	801.0	797.3	804.6	812.0	819.3
65°	654.3	667.2	676.3	674.5	685.5	696.5	694.7	698.3	714.8	724.0	733.2
67.5°	533.4	546.2	559.0	560.9	577.4	593.9	601.2	614.0	632.4	645.2	656.2
70°	428.9	439.9	454.6	463.7	485.7	507.7	520.5	546.2	557.2	575.5	582.9
72.5°	335.4	344.6	364.7	386.7	405.1	432.6	458.2	480.2	496.7	516.9	526.0
75°	262.1	265.8	287.8	313.4	339.1	370.2	397.7	421.6	443.6	463.7	478.4
77.5°	192.5	198.0	218.1	252.9	282.3	315.3	346.4	372.1	395.9	416.1	436.2
80°	133.8	144.8	166.8	201.6	234.6	271.3	300.6	329.9	355.6	375.7	395.9
82.5°	86.1	95.3	126.5	161.3	196.1	232.8	263.9	293.3	320.8	342.8	361.1
85°	47.7	60.5	91.6	128.3	163.1	199.8	232.8	262.1	289.6	309.8	328.1
87.5°	18.3	36.7	66.0	100.8	135.6	170.5	205.3	232.8	260.3	282.3	298.8
90°	0.0	22.0	49.5	84.3	119.1	154.0	187.0	216.3	241.9	262.1	280.4
92.5°	1.8	14.7	38.5	67.8	100.8	133.8	165.0	194.3	219.9	240.1	256.6
95°	1.8	11.0	31.2	58.7	88.0	119.1	148.5	176.0	199.8	219.9	236.4
97.5°	1.8	7.3	25.7	51.3	77.0	108.1	135.6	161.3	183.3	203.5	216.3
100°	1.8	7.3	22.0	44.0	69.7	97.1	122.8	148.5	168.6	185.1	199.8
102.5°	1.8	5.5	18.3	38.5	62.3	86.1	111.8	135.6	154.0	170.5	185.1
105°	1.8	5.5	16.5	33.0	55.0	78.8	100.8	122.8	143.0	157.6	170.5
107.5°	1.8	3.7	14.7	27.5	47.7	71.5	93.5	111.8	130.1	144.8	157.6
110°	1.8	3.7	12.8	25.7	42.2	64.2	84.3	102.6	119.1	133.8	144.8



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CATALOG NUMBER: 8SNLED-LD5-98SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.8	3.7	11.0	23.8	38.5	56.8	77.0	93.5	110.0	122.8	133.8
115°	1.8	3.7	11.0	22.0	34.8	49.5	67.8	86.1	99.0	113.6	122.8
117.5°	1.8	3.7	9.2	18.3	33.0	45.8	62.3	77.0	91.6	104.5	113.6
120°	1.8	3.7	9.2	16.5	29.3	42.2	55.0	69.7	84.3	93.5	102.6
122.5°	1.8	3.7	7.3	16.5	25.7	38.5	49.5	62.3	75.1	86.1	95.3
125°	1.8	3.7	7.3	14.7	23.8	34.8	45.8	55.0	67.8	77.0	86.1
127.5°	1.8	3.7	7.3	12.8	22.0	31.2	42.2	51.3	60.5	69.7	77.0
130°	1.8	3.7	5.5	11.0	20.2	27.5	36.7	47.7	55.0	62.3	69.7
132.5°	1.8	3.7	5.5	11.0	16.5	23.8	33.0	42.2	49.5	56.8	62.3
135°	1.8	3.7	5.5	9.2	14.7	22.0	27.5	36.7	44.0	51.3	56.8
137.5°	1.8	3.7	5.5	9.2	12.8	18.3	23.8	31.2	38.5	44.0	51.3
140°	1.8	3.7	5.5	7.3	11.0	16.5	22.0	25.7	33.0	38.5	44.0
142.5°	1.8	3.7	5.5	7.3	11.0	14.7	18.3	22.0	27.5	33.0	38.5
145°	1.8	3.7	5.5	7.3	9.2	12.8	16.5	20.2	22.0	27.5	31.2
147.5°	1.8	3.7	5.5	7.3	7.3	11.0	14.7	16.5	20.2	22.0	25.7
150°	1.8	3.7	5.5	5.5	7.3	9.2	12.8	14.7	16.5	20.2	22.0
152.5°	1.8	3.7	5.5	5.5	7.3	9.2	11.0	12.8	14.7	16.5	18.3
155°	1.8	3.7	5.5	5.5	5.5	7.3	9.2	11.0	12.8	14.7	16.5
157.5°	3.7	3.7	3.7	5.5	5.5	7.3	7.3	9.2	11.0	11.0	12.8
160°	3.7	3.7	3.7	5.5	5.5	5.5	7.3	7.3	9.2	9.2	11.0
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°	3332.2	3332.2	3332.2	3332.2	3332.2	3332.2	3332.2	3332.2	3332.2	3332.2	3332.2
2.5°	3312.1	3317.6	3334.1	3334.1	3330.4	3326.7	3326.7	3321.2	3324.9	3332.2	3328.6
5°	3312.1	3317.6	3334.1	3334.1	3330.4	3326.7	3324.9	3319.4	3324.9	3332.2	3328.6
7.5°	3301.1	3308.4	3324.9	3324.9	3321.2	3319.4	3315.7	3312.1	3317.6	3324.9	3321.2
10°	3286.4	3293.7	3310.2	3310.2	3306.6	3306.6	3301.1	3297.4	3304.7	3310.2	3308.4
12.5°	3264.4	3273.6	3288.2	3286.4	3282.7	3284.6	3279.1	3271.7	3279.1	3284.6	3286.4
15°	3233.3	3244.3	3258.9	3255.2	3249.7	3253.4	3244.3	3238.8	3244.3	3255.2	3253.4
17.5°	3192.9	3200.3	3211.3	3211.3	3205.8	3202.1	3198.4	3192.9	3196.6	3203.9	3205.8
20°	3136.1	3145.3	3150.8	3145.3	3143.4	3137.9	3130.6	3125.1	3132.4	3143.4	3145.3
22.5°	3061.0	3062.8	3075.6	3062.8	3053.6	3051.8	3044.5	3033.5	3044.5	3053.6	3055.5
25°	2967.5	2976.6	2971.1	2949.2	2949.2	2934.5	2930.8	2925.3	2927.2	2943.7	2951.0
27.5°	2848.3	2852.0	2837.3	2819.0	2802.5	2793.4	2780.5	2782.4	2782.4	2804.4	2811.7
30°	2718.2	2698.0	2685.2	2655.9	2643.1	2621.1	2617.4	2617.4	2613.7	2624.7	2657.7
32.5°	2562.4	2534.9	2514.8	2487.3	2465.3	2443.3	2432.3	2437.8	2435.9	2463.4	2474.4
35°	2391.9	2375.5	2333.3	2298.5	2285.6	2252.6	2252.6	2236.2	2247.1	2278.3	2291.1
37.5°	2212.3	2186.7	2151.8	2113.3	2104.2	2078.5	2069.4	2060.2	2084.0	2089.5	2102.3
40°	2029.0	2005.2	1972.2	1935.6	1935.6	1904.4	1904.4	1904.4	1906.2	1917.2	1941.1
42.5°	1854.9	1829.2	1799.9	1774.3	1770.6	1746.8	1746.8	1744.9	1748.6	1757.8	1779.8
45°	1686.3	1666.1	1635.0	1622.1	1624.0	1598.3	1603.8	1598.3	1605.6	1614.8	1622.1
47.5°	1530.5	1517.6	1504.8	1486.5	1481.0	1479.2	1470.0	1462.7	1475.5	1475.5	1486.5
50°	1385.7	1378.3	1371.0	1360.0	1361.9	1354.5	1343.5	1343.5	1352.7	1354.5	1361.9
52.5°	1259.2	1250.0	1240.9	1242.7	1244.5	1240.9	1235.4	1229.9	1235.4	1239.0	1248.2
55°	1132.7	1125.4	1134.6	1130.9	1134.6	1130.9	1127.2	1123.6	1132.7	1127.2	1136.4
57.5°	1019.1	1026.4	1030.1	1022.8	1028.3	1024.6	1026.4	1020.9	1028.3	1031.9	1030.1
60°	914.6	925.6	920.1	922.0	929.3	925.6	918.3	923.8	931.1	933.0	931.1
62.5°	819.3	832.1	837.6	834.0	835.8	832.1	837.6	830.3	839.5	843.1	837.6
65°	733.2	747.8	751.5	751.5	751.5	747.8	753.3	755.2	758.8	758.8	755.2
67.5°	659.8	672.7	676.3	680.0	676.3	672.7	672.7	674.5	681.8	685.5	681.8
70°	593.9	606.7	608.5	608.5	610.4	614.0	606.7	610.4	615.9	617.7	615.9
72.5°	537.0	549.9	553.5	551.7	553.5	555.4	555.4	551.7	557.2	560.9	560.9
75°	491.2	498.6	502.2	502.2	504.1	505.9	505.9	504.1	507.7	509.5	511.4
77.5°	449.1	454.6	460.1	460.1	461.9	460.1	463.7	463.7	465.6	467.4	469.2
80°	406.9	414.2	417.9	419.7	423.4	425.2	425.2	425.2	427.1	428.9	428.9
82.5°	373.9	379.4	384.9	390.4	390.4	392.2	392.2	392.2	394.1	394.1	395.9
85°	340.9	348.3	353.8	357.4	359.3	361.1	361.1	362.9	362.9	362.9	364.7
87.5°	311.6	320.8	324.4	328.1	329.9	333.6	333.6	333.6	335.4	335.4	335.4
90°	291.4	300.6	304.3	307.9	309.8	311.6	311.6	313.4	313.4	315.3	315.3
92.5°	267.6	276.8	284.1	284.1	285.9	289.6	287.8	287.8	289.6	291.4	291.4
95°	249.3	256.6	262.1	263.9	265.8	265.8	265.8	267.6	265.8	267.6	267.6
97.5°	227.3	234.6	240.1	243.8	245.6	245.6	245.6	247.4	245.6	247.4	247.4
100°	209.0	216.3	221.8	223.6	227.3	227.3	227.3	227.3	227.3	227.3	229.1
102.5°	194.3	201.6	205.3	207.1	209.0	210.8	210.8	210.8	210.8	212.6	212.6
105°	179.6	187.0	190.6	192.5	194.3	196.1	196.1	196.1	198.0	198.0	196.1
107.5°	166.8	172.3	176.0	179.6	181.5	181.5	183.3	183.3	183.3	183.3	183.3
110°	154.0	159.5	165.0	168.6	168.6	170.5	170.5	172.3	172.3	170.5	172.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-98SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	141.1	148.5	152.1	155.8	157.6	159.5	159.5	159.5	159.5	159.5	159.5
115°	130.1	137.5	141.1	144.8	146.6	148.5	148.5	148.5	148.5	148.5	148.5
117.5°	121.0	128.3	132.0	133.8	135.6	137.5	139.3	139.3	139.3	139.3	137.5
120°	111.8	117.3	121.0	124.6	126.5	128.3	128.3	128.3	128.3	128.3	128.3
122.5°	102.6	108.1	111.8	115.5	117.3	119.1	119.1	119.1	119.1	119.1	119.1
125°	93.5	99.0	102.6	106.3	108.1	110.0	110.0	110.0	110.0	110.0	110.0
127.5°	84.3	89.8	95.3	97.1	99.0	100.8	100.8	100.8	102.6	100.8	100.8
130°	75.1	80.6	86.1	88.0	89.8	91.6	93.5	93.5	93.5	93.5	91.6
132.5°	67.8	73.3	77.0	78.8	82.5	82.5	84.3	84.3	84.3	84.3	82.5
135°	62.3	66.0	69.7	71.5	75.1	75.1	75.1	77.0	77.0	75.1	73.3
137.5°	55.0	58.7	62.3	64.2	66.0	67.8	67.8	69.7	67.8	67.8	67.8
140°	51.3	53.2	56.8	58.7	60.5	60.5	60.5	62.3	62.3	60.5	60.5
142.5°	44.0	47.7	51.3	53.2	55.0	55.0	55.0	55.0	55.0	55.0	55.0
145°	36.7	42.2	44.0	47.7	47.7	49.5	49.5	49.5	49.5	49.5	47.7
147.5°	31.2	34.8	40.3	42.2	42.2	44.0	44.0	44.0	44.0	44.0	42.2
150°	23.8	27.5	33.0	36.7	36.7	38.5	38.5	38.5	38.5	36.7	36.7
152.5°	20.2	23.8	25.7	29.3	31.2	31.2	31.2	33.0	31.2	31.2	31.2
155°	18.3	20.2	22.0	23.8	25.7	27.5	27.5	27.5	27.5	25.7	25.7
157.5°	14.7	16.5	18.3	20.2	22.0	23.8	23.8	23.8	23.8	23.8	22.0
160°	11.0	12.8	14.7	14.7	16.5	18.3	20.2	18.3	18.3	18.3	18.3
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-LD5-98SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3332.2	3332.2	3332.2	3332.2	3332.2	3332.2	3332.2	3332.2	3332.2	3332.2	3332.2
2.5°	3324.9	3323.1	3328.6	3319.4	3291.9	3299.2	3295.6	3312.1	3315.7	3319.4	3335.9
5°	3324.9	3323.1	3326.7	3319.4	3290.1	3295.6	3291.9	3308.4	3312.1	3313.9	3330.4
7.5°	3317.6	3315.7	3321.2	3312.1	3280.9	3288.2	3282.7	3299.2	3301.1	3302.9	3317.6
10°	3302.9	3301.1	3304.7	3297.4	3266.2	3273.6	3266.2	3282.7	3282.7	3286.4	3297.4
12.5°	3280.9	3277.2	3284.6	3275.4	3240.6	3249.7	3246.1	3257.1	3258.9	3260.7	3271.7
15°	3249.7	3246.1	3251.6	3246.1	3214.9	3216.8	3211.3	3227.8	3229.6	3225.9	3236.9
17.5°	3203.9	3200.3	3211.3	3207.6	3176.4	3183.8	3181.9	3185.6	3191.1	3181.9	3196.6
20°	3147.1	3150.8	3154.4	3156.3	3132.4	3132.4	3130.6	3137.9	3143.4	3136.1	3147.1
22.5°	3062.8	3072.0	3083.0	3086.6	3070.1	3068.3	3079.3	3075.6	3081.1	3077.5	3084.8
25°	2956.5	2974.8	2985.8	2996.8	2987.6	2991.3	3007.8	3011.5	3011.5	3009.6	3017.0
27.5°	2824.5	2848.3	2868.5	2892.3	2883.2	2890.5	2918.0	2921.7	2929.0	2921.7	2936.3
30°	2666.9	2688.9	2727.4	2762.2	2765.9	2776.9	2815.4	2819.0	2839.2	2831.8	2837.3
32.5°	2509.3	2520.3	2564.2	2599.1	2621.1	2648.6	2690.7	2698.0	2725.5	2731.0	2731.0
35°	2311.3	2342.5	2382.8	2432.3	2459.8	2489.1	2545.9	2556.9	2597.2	2610.1	2624.7
37.5°	2144.5	2173.8	2199.5	2250.8	2300.3	2333.3	2379.1	2406.6	2448.8	2472.6	2490.9
40°	1966.7	1990.5	2018.0	2069.4	2111.5	2161.0	2206.8	2239.8	2293.0	2320.5	2344.3
42.5°	1798.1	1816.4	1845.7	1882.4	1926.4	1981.4	2025.4	2063.9	2120.7	2159.2	2186.7
45°	1647.8	1658.8	1684.4	1711.9	1750.4	1807.2	1849.4	1898.9	1944.7	1985.0	2018.0
47.5°	1506.7	1521.3	1534.1	1552.5	1587.3	1622.1	1671.6	1719.3	1765.1	1809.1	1842.1
50°	1376.5	1376.5	1396.7	1409.5	1433.3	1464.5	1503.0	1536.0	1592.8	1624.0	1666.1
52.5°	1250.0	1257.4	1268.4	1275.7	1294.0	1314.2	1345.4	1372.8	1420.5	1449.8	1490.2
55°	1138.2	1145.6	1151.1	1154.7	1165.7	1189.6	1200.6	1222.6	1255.5	1279.4	1314.2
57.5°	1031.9	1035.6	1041.1	1042.9	1044.8	1059.4	1068.6	1074.1	1107.1	1130.9	1160.2
60°	934.8	934.8	940.3	938.5	936.6	943.9	942.1	947.6	967.8	982.4	995.3
62.5°	843.1	843.1	845.0	841.3	839.5	839.5	832.1	837.6	843.1	845.0	854.1
65°	758.8	768.0	760.7	762.5	751.5	747.8	744.2	733.2	731.3	724.0	727.7
67.5°	683.7	691.0	683.7	683.7	674.5	667.2	658.0	639.7	634.2	619.5	615.9
70°	623.2	617.7	621.4	615.9	604.9	595.7	582.9	568.2	549.9	531.5	518.7
72.5°	564.5	564.5	560.9	555.4	549.9	531.5	516.9	500.4	478.4	454.6	436.2
75°	507.7	509.5	509.5	504.1	494.9	478.4	461.9	438.1	414.2	386.7	362.9
77.5°	467.4	467.4	467.4	458.2	449.1	434.4	414.2	388.6	362.9	329.9	302.4
80°	428.9	427.1	427.1	416.1	406.9	390.4	370.2	344.6	317.1	282.3	251.1
82.5°	397.7	395.9	392.2	383.1	370.2	353.8	333.6	306.1	276.8	245.6	207.1
85°	364.7	362.9	359.3	350.1	337.3	322.6	300.6	273.1	243.8	209.0	172.3
87.5°	335.4	333.6	328.1	322.6	307.9	291.4	269.4	243.8	212.6	179.6	143.0
90°	315.3	311.6	307.9	300.6	287.8	269.4	247.4	219.9	188.8	155.8	119.1
92.5°	291.4	289.6	284.1	276.8	265.8	247.4	225.4	199.8	168.6	137.5	102.6
95°	267.6	265.8	262.1	254.8	243.8	227.3	207.1	181.5	152.1	121.0	89.8
97.5°	245.6	245.6	240.1	234.6	221.8	209.0	188.8	165.0	137.5	110.0	80.6
100°	227.3	227.3	221.8	214.5	205.3	192.5	172.3	150.3	124.6	99.0	69.7
102.5°	210.8	209.0	205.3	198.0	188.8	176.0	157.6	137.5	113.6	88.0	62.3
105°	196.1	194.3	190.6	183.3	176.0	161.3	146.6	126.5	102.6	78.8	55.0
107.5°	181.5	179.6	177.8	170.5	161.3	148.5	133.8	113.6	93.5	71.5	49.5
110°	168.6	166.8	163.1	155.8	146.6	135.6	121.0	104.5	84.3	64.2	44.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-98SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	157.6	155.8	152.1	144.8	137.5	124.6	111.8	93.5	77.0	58.7	38.5
115°	146.6	144.8	141.1	133.8	124.6	113.6	100.8	86.1	67.8	51.3	34.8
117.5°	135.6	133.8	130.1	124.6	115.5	104.5	91.6	77.0	60.5	47.7	31.2
120°	126.5	122.8	119.1	113.6	104.5	95.3	82.5	69.7	55.0	42.2	27.5
122.5°	117.3	113.6	110.0	104.5	95.3	86.1	73.3	62.3	51.3	38.5	25.7
125°	106.3	104.5	100.8	95.3	86.1	77.0	67.8	56.8	45.8	34.8	22.0
127.5°	97.1	95.3	91.6	84.3	77.0	69.7	60.5	51.3	40.3	29.3	20.2
130°	89.8	86.1	82.5	77.0	71.5	64.2	55.0	45.8	36.7	25.7	18.3
132.5°	80.6	77.0	73.3	69.7	64.2	56.8	49.5	40.3	33.0	23.8	16.5
135°	73.3	69.7	66.0	62.3	56.8	51.3	44.0	36.7	29.3	22.0	14.7
137.5°	64.2	62.3	60.5	56.8	51.3	45.8	40.3	31.2	25.7	20.2	12.8
140°	58.7	56.8	55.0	49.5	45.8	40.3	34.8	27.5	22.0	16.5	11.0
142.5°	53.2	51.3	47.7	44.0	40.3	36.7	29.3	25.7	20.2	14.7	11.0
145°	45.8	44.0	42.2	38.5	34.8	29.3	25.7	22.0	18.3	12.8	9.2
147.5°	42.2	40.3	36.7	33.0	29.3	25.7	23.8	20.2	14.7	11.0	7.3
150°	34.8	33.0	31.2	27.5	25.7	23.8	20.2	16.5	12.8	9.2	7.3
152.5°	29.3	27.5	25.7	25.7	22.0	20.2	16.5	14.7	11.0	9.2	5.5
155°	25.7	25.7	23.8	22.0	18.3	16.5	14.7	11.0	9.2	7.3	5.5
157.5°	22.0	20.2	18.3	18.3	16.5	14.7	11.0	9.2	7.3	7.3	5.5
160°	18.3	16.5	16.5	14.7	12.8	11.0	9.2	9.2	7.3	5.5	5.5
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-LD5-98SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3332.2	3332.2	3332.2	3332.2	3332.2	3332.2	3332.2	3332.2	3332.2	3332.2	3332.2
2.5°	3337.7	3317.6	3335.9	3359.7	3359.7	3356.1	3352.4	3359.7	3378.1	3370.7	3348.7
5°	3332.2	3312.1	3328.6	3352.4	3352.4	3346.9	3343.2	3348.7	3368.9	3359.7	3339.6
7.5°	3321.2	3302.9	3313.9	3335.9	3335.9	3330.4	3326.7	3334.1	3350.6	3341.4	3319.4
10°	3301.1	3280.9	3293.7	3313.9	3312.1	3308.4	3302.9	3312.1	3326.7	3313.9	3288.2
12.5°	3275.4	3255.2	3266.2	3284.6	3282.7	3275.4	3271.7	3277.2	3290.1	3282.7	3255.2
15°	3240.6	3220.4	3229.6	3247.9	3242.4	3236.9	3229.6	3231.4	3247.9	3235.1	3205.8
17.5°	3198.4	3176.4	3183.8	3200.3	3194.8	3189.3	3180.1	3181.9	3200.3	3181.9	3150.8
20°	3147.1	3123.3	3128.8	3148.9	3139.8	3130.6	3121.4	3121.4	3139.8	3119.6	3084.8
22.5°	3092.1	3068.3	3072.0	3086.6	3079.3	3062.8	3053.6	3059.1	3068.3	3042.6	3006.0
25°	3024.3	2993.1	2998.6	3013.3	3007.8	2985.8	2976.6	2980.3	2976.6	2956.5	2918.0
27.5°	2945.5	2912.5	2916.2	2925.3	2918.0	2897.8	2886.8	2888.7	2881.3	2855.7	2811.7
30°	2846.5	2830.0	2828.2	2833.7	2822.7	2802.5	2789.7	2786.0	2784.2	2747.5	2694.4
32.5°	2745.7	2731.0	2721.9	2729.2	2716.4	2696.2	2674.2	2674.2	2655.9	2621.1	2575.2
35°	2643.1	2619.2	2610.1	2615.6	2600.9	2575.2	2556.9	2547.7	2520.3	2476.3	2426.8
37.5°	2511.1	2494.6	2483.6	2489.1	2472.6	2454.3	2419.4	2410.3	2381.0	2320.5	2258.1
40°	2368.1	2355.3	2344.3	2349.8	2331.5	2304.0	2272.8	2258.1	2225.2	2157.3	2107.8
42.5°	2214.2	2208.7	2195.8	2216.0	2179.3	2151.8	2120.7	2096.8	2063.9	1990.5	1933.7
45°	2051.0	2063.9	2034.5	2040.0	2016.2	1992.4	1959.4	1924.6	1891.6	1821.9	1757.8
47.5°	1878.7	1887.9	1867.7	1871.4	1845.7	1823.7	1794.4	1750.4	1713.8	1653.3	1596.5
50°	1700.9	1697.3	1697.3	1693.6	1673.4	1646.0	1616.6	1576.3	1539.6	1484.7	1437.0
52.5°	1512.2	1519.5	1523.1	1532.3	1506.7	1490.2	1444.3	1409.5	1382.0	1325.2	1284.9
55°	1330.7	1356.4	1349.0	1352.7	1323.4	1310.5	1273.9	1246.4	1206.1	1173.1	1147.4
57.5°	1165.7	1171.2	1174.9	1180.4	1167.6	1141.9	1112.6	1090.6	1059.4	1031.9	1013.6
60°	1006.3	1006.3	1008.1	1017.3	1004.4	982.4	960.4	943.9	922.0	905.5	894.5
62.5°	856.0	868.8	870.6	863.3	846.8	835.8	821.1	812.0	797.3	791.8	788.2
65°	716.7	716.7	716.7	720.3	711.2	703.8	694.7	692.8	698.3	691.0	694.7
67.5°	599.4	593.9	590.2	592.0	588.4	584.7	582.9	588.4	599.4	599.4	608.5
70°	498.6	487.6	480.2	480.2	480.2	482.1	487.6	498.6	516.9	524.2	537.0
72.5°	416.1	392.2	381.2	381.2	383.1	390.4	406.9	427.1	443.6	458.2	474.7
75°	337.3	313.4	296.9	295.1	298.8	309.8	333.6	351.9	379.4	399.6	419.7
77.5°	273.1	243.8	223.6	221.8	227.3	243.8	273.1	296.9	328.1	350.1	372.1
80°	218.1	185.1	168.6	157.6	166.8	187.0	219.9	249.3	278.6	307.9	335.4
82.5°	174.1	143.0	117.3	106.3	117.3	144.8	176.0	210.8	240.1	271.3	298.8
85°	137.5	104.5	75.1	64.2	77.0	106.3	141.1	176.0	209.0	240.1	267.6
87.5°	108.1	75.1	45.8	31.2	47.7	78.8	111.8	146.6	181.5	212.6	240.1
90°	84.3	53.2	25.7	3.7	27.5	56.8	89.8	122.8	157.6	188.8	216.3
92.5°	71.5	40.3	14.7	0.0	16.5	42.2	73.3	106.3	137.5	168.6	196.1
95°	60.5	33.0	11.0	0.0	11.0	33.0	60.5	89.8	121.0	152.1	179.6
97.5°	51.3	25.7	7.3	0.0	7.3	25.7	49.5	78.8	106.3	135.6	161.3
100°	44.0	22.0	5.5	0.0	5.5	20.2	42.2	67.8	95.3	122.8	146.6
102.5°	38.5	18.3	3.7	0.0	3.7	16.5	34.8	58.7	82.5	108.1	132.0
105°	33.0	14.7	3.7	0.0	1.8	12.8	29.3	51.3	73.3	97.1	119.1
107.5°	29.3	12.8	3.7	0.0	1.8	11.0	25.7	44.0	66.0	86.1	106.3
110°	25.7	11.0	3.7	0.0	1.8	7.3	22.0	38.5	56.8	77.0	97.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-98SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	22.0	9.2	1.8	0.0	0.0	5.5	18.3	33.0	49.5	69.7	86.1
115°	20.2	9.2	1.8	0.0	0.0	3.7	14.7	29.3	44.0	62.3	77.0
117.5°	18.3	7.3	1.8	0.0	1.8	3.7	12.8	25.7	38.5	53.2	69.7
120°	16.5	7.3	1.8	0.0	1.8	1.8	9.2	22.0	33.0	47.7	60.5
122.5°	14.7	7.3	1.8	0.0	1.8	1.8	7.3	18.3	29.3	42.2	53.2
125°	12.8	5.5	3.7	1.8	1.8	1.8	5.5	14.7	25.7	34.8	47.7
127.5°	12.8	5.5	3.7	1.8	1.8	1.8	3.7	12.8	20.2	31.2	42.2
130°	11.0	5.5	3.7	1.8	1.8	1.8	1.8	9.2	18.3	25.7	34.8
132.5°	9.2	5.5	3.7	1.8	1.8	1.8	1.8	5.5	12.8	22.0	29.3
135°	9.2	5.5	3.7	1.8	1.8	1.8	1.8	3.7	9.2	16.5	23.8
137.5°	7.3	3.7	3.7	1.8	1.8	1.8	1.8	1.8	7.3	12.8	18.3
140°	7.3	3.7	3.7	1.8	1.8	1.8	1.8	1.8	5.5	9.2	14.7
142.5°	5.5	3.7	3.7	1.8	1.8	1.8	1.8	1.8	3.7	7.3	11.0
145°	5.5	3.7	3.7	1.8	1.8	1.8	1.8	1.8	1.8	3.7	7.3
147.5°	5.5	5.5	3.7	1.8	1.8	1.8	1.8	1.8	1.8	3.7	5.5
150°	5.5	3.7	3.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.7
152.5°	5.5	3.7	3.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.7
155°	5.5	3.7	3.7	1.8	1.8	1.8	1.8	1.8	1.8	3.7	3.7
157.5°	5.5	3.7	3.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.7
160°	5.5	3.7	3.7	1.8	3.7	1.8	3.7	3.7	3.7	3.7	3.7
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-LD5-98SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3332.2	3332.2	3332.2	3332.2	3332.2	3332.2	3332.2	3332.2	3332.2	3332.2	3332.2
2.5°	3341.4	3306.6	3324.9	3319.4	3326.7	3341.4	3339.6	3335.9	3335.9	3330.4	3323.1
5°	3330.4	3297.4	3313.9	3304.7	3313.9	3326.7	3324.9	3319.4	3323.1	3313.9	3304.7
7.5°	3308.4	3279.1	3293.7	3286.4	3293.7	3306.6	3301.1	3299.2	3302.9	3288.2	3282.7
10°	3282.7	3249.7	3266.2	3257.1	3266.2	3275.4	3271.7	3264.4	3271.7	3257.1	3251.6
12.5°	3242.4	3214.9	3225.9	3222.3	3227.8	3236.9	3229.6	3224.1	3227.8	3214.9	3203.9
15°	3198.4	3170.9	3180.1	3174.6	3178.3	3189.3	3176.4	3174.6	3170.9	3158.1	3154.4
17.5°	3141.6	3115.9	3125.1	3115.9	3121.4	3117.8	3115.9	3106.8	3106.8	3092.1	3081.1
20°	3072.0	3050.0	3044.5	3037.1	3044.5	3037.1	3026.1	3018.8	3017.0	3002.3	2993.1
22.5°	2991.3	2965.6	2969.3	2949.2	2951.0	2940.0	2921.7	2914.3	2907.0	2890.5	2877.7
25°	2894.2	2868.5	2850.2	2837.3	2820.8	2819.0	2795.2	2776.9	2775.0	2754.9	2753.0
27.5°	2784.2	2754.9	2740.2	2709.0	2688.9	2672.4	2652.2	2633.9	2624.7	2602.7	2588.1
30°	2657.7	2624.7	2588.1	2566.1	2534.9	2522.1	2487.3	2465.3	2457.9	2434.1	2423.1
32.5°	2514.8	2479.9	2450.6	2408.4	2373.6	2355.3	2320.5	2298.5	2289.3	2263.6	2249.0
35°	2359.0	2320.5	2285.6	2245.3	2217.8	2186.7	2144.5	2122.5	2102.3	2093.2	2082.2
37.5°	2195.8	2153.7	2113.3	2073.0	2049.2	2012.5	1975.9	1961.2	1937.4	1928.2	1917.2
40°	2027.2	1985.0	1946.6	1908.1	1880.6	1847.6	1814.6	1809.1	1783.4	1774.3	1766.9
42.5°	1860.4	1816.4	1772.4	1744.9	1724.8	1691.8	1669.8	1664.3	1642.3	1636.8	1636.8
45°	1710.1	1655.1	1618.5	1594.6	1578.1	1550.6	1532.3	1528.6	1510.3	1506.7	1506.7
47.5°	1548.8	1497.5	1470.0	1455.3	1440.7	1420.5	1409.5	1409.5	1391.2	1387.5	1385.7
50°	1398.5	1350.9	1330.7	1316.0	1314.2	1299.5	1290.4	1286.7	1286.7	1273.9	1275.7
52.5°	1255.5	1231.7	1215.2	1206.1	1195.1	1185.9	1178.6	1178.6	1173.1	1163.9	1167.6
55°	1123.6	1096.1	1097.9	1090.6	1085.1	1079.6	1081.4	1070.4	1068.6	1061.3	1066.8
57.5°	991.6	991.6	987.9	982.4	973.3	976.9	976.9	976.9	967.8	962.3	967.8
60°	879.8	885.3	876.1	881.6	878.0	879.8	876.1	876.1	870.6	868.8	870.6
62.5°	780.8	790.0	786.3	793.7	790.0	791.8	795.5	788.2	784.5	780.8	784.5
65°	692.8	703.8	702.0	707.5	709.3	711.2	713.0	709.3	705.7	702.0	700.2
67.5°	615.9	626.9	634.2	636.0	637.9	643.4	641.5	637.9	634.2	628.7	626.9
70°	546.2	560.9	570.0	573.7	581.0	577.4	577.4	575.5	571.9	566.4	564.5
72.5°	487.6	504.1	513.2	516.9	524.2	524.2	522.4	520.5	516.9	511.4	509.5
75°	436.2	450.9	463.7	471.1	476.6	476.6	474.7	472.9	469.2	465.6	463.7
77.5°	395.9	408.7	419.7	428.9	432.6	434.4	432.6	428.9	428.9	427.1	425.2
80°	355.6	370.2	381.2	390.4	395.9	395.9	394.1	395.9	392.2	390.4	388.6
82.5°	320.8	337.3	350.1	359.3	362.9	364.7	362.9	364.7	361.1	361.1	361.1
85°	289.6	306.1	320.8	328.1	333.6	335.4	335.4	335.4	333.6	333.6	333.6
87.5°	263.9	280.4	295.1	302.4	307.9	309.8	309.8	311.6	307.9	307.9	307.9
90°	240.1	256.6	271.3	278.6	284.1	287.8	287.8	289.6	287.8	285.9	285.9
92.5°	218.1	236.4	251.1	258.4	263.9	269.4	269.4	271.3	267.6	267.6	267.6
95°	199.8	218.1	230.9	240.1	245.6	249.3	251.1	251.1	249.3	249.3	249.3
97.5°	183.3	199.8	212.6	221.8	227.3	229.1	230.9	232.8	230.9	230.9	230.9
100°	166.8	183.3	196.1	203.5	210.8	212.6	214.5	216.3	216.3	214.5	214.5
102.5°	152.1	168.6	179.6	188.8	194.3	198.0	199.8	199.8	199.8	199.8	199.8
105°	137.5	154.0	165.0	174.1	179.6	183.3	185.1	187.0	187.0	185.1	185.1
107.5°	124.6	139.3	152.1	159.5	166.8	170.5	172.3	172.3	174.1	172.3	172.3
110°	111.8	128.3	139.3	146.6	154.0	157.6	159.5	161.3	161.3	161.3	161.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-98SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	102.6	115.5	126.5	133.8	141.1	144.8	146.6	148.5	150.3	148.5	148.5
115°	91.6	104.5	115.5	122.8	128.3	132.0	135.6	137.5	137.5	139.3	137.5
117.5°	82.5	93.5	104.5	111.8	117.3	122.8	124.6	126.5	128.3	126.5	126.5
120°	73.3	84.3	93.5	100.8	106.3	111.8	113.6	115.5	117.3	115.5	115.5
122.5°	66.0	75.1	84.3	91.6	97.1	100.8	104.5	104.5	106.3	106.3	106.3
125°	58.7	67.8	75.1	82.5	88.0	91.6	93.5	95.3	95.3	97.1	97.1
127.5°	51.3	58.7	67.8	73.3	78.8	82.5	84.3	86.1	86.1	88.0	88.0
130°	44.0	51.3	58.7	64.2	69.7	73.3	75.1	77.0	78.8	78.8	78.8
132.5°	38.5	45.8	51.3	56.8	60.5	64.2	67.8	69.7	69.7	69.7	69.7
135°	31.2	38.5	44.0	49.5	53.2	56.8	58.7	62.3	62.3	62.3	62.3
137.5°	25.7	33.0	38.5	42.2	45.8	49.5	51.3	53.2	55.0	55.0	55.0
140°	20.2	25.7	31.2	36.7	40.3	42.2	45.8	45.8	47.7	47.7	47.7
142.5°	14.7	20.2	23.8	29.3	33.0	36.7	38.5	40.3	40.3	40.3	40.3
145°	11.0	14.7	18.3	22.0	27.5	29.3	31.2	33.0	34.8	34.8	34.8
147.5°	7.3	11.0	12.8	16.5	20.2	23.8	25.7	27.5	29.3	29.3	29.3
150°	5.5	7.3	11.0	12.8	14.7	18.3	22.0	22.0	23.8	23.8	22.0
152.5°	3.7	5.5	7.3	9.2	11.0	12.8	16.5	16.5	18.3	18.3	18.3
155°	3.7	3.7	3.7	5.5	7.3	9.2	11.0	12.8	12.8	12.8	12.8
157.5°	3.7	3.7	3.7	3.7	3.7	5.5	7.3	9.2	9.2	9.2	9.2
160°	3.7	3.7	1.8	1.8	3.7	3.7	3.7	3.7	5.5	5.5	5.5
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-LD5-98SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3332.2	3332.2	3332.2	3332.2	3332.2	3332.2	3332.2	3332.2	3332.2	3332.2	3332.2
2.5°	3328.6	3332.2	3332.2	3328.6	3326.7	3334.1	3324.9	3290.1	3301.1	3304.7	3315.7
5°	3312.1	3315.7	3315.7	3315.7	3312.1	3319.4	3310.2	3275.4	3288.2	3293.7	3301.1
7.5°	3288.2	3290.1	3293.7	3291.9	3288.2	3299.2	3290.1	3255.2	3264.4	3273.6	3282.7
10°	3257.1	3257.1	3258.9	3262.6	3258.9	3268.1	3258.9	3227.8	3236.9	3242.4	3253.4
12.5°	3214.9	3218.6	3220.4	3218.6	3216.8	3224.1	3220.4	3191.1	3194.8	3205.8	3216.8
15°	3158.1	3158.1	3167.3	3163.6	3163.6	3170.9	3174.6	3141.6	3147.1	3163.6	3174.6
17.5°	3088.5	3090.3	3097.6	3101.3	3099.5	3112.3	3114.1	3088.5	3086.6	3106.8	3117.8
20°	2998.6	3002.3	3011.5	3018.8	3018.8	3033.5	3039.0	3022.5	3024.3	3046.3	3050.0
22.5°	2888.7	2888.7	2905.2	2916.2	2925.3	2934.5	2951.0	2936.3	2936.3	2965.6	2982.1
25°	2753.0	2765.9	2771.4	2793.4	2806.2	2831.8	2846.5	2848.3	2850.2	2877.7	2888.7
27.5°	2602.7	2606.4	2622.9	2648.6	2663.2	2687.0	2714.5	2720.0	2729.2	2765.9	2782.4
30°	2432.3	2443.3	2450.6	2487.3	2507.4	2538.6	2573.4	2586.2	2593.6	2643.1	2663.2
32.5°	2258.1	2261.8	2293.0	2313.1	2337.0	2370.0	2410.3	2434.1	2448.8	2500.1	2529.4
35°	2084.0	2091.4	2117.0	2142.7	2166.5	2199.5	2241.6	2274.6	2300.3	2346.1	2384.6
37.5°	1924.6	1942.9	1948.4	1974.0	1992.4	2025.4	2054.7	2102.3	2128.0	2175.7	2225.2
40°	1781.6	1787.1	1790.8	1816.4	1829.2	1860.4	1902.6	1933.7	1968.5	2003.4	2062.0
42.5°	1640.5	1644.1	1649.6	1664.3	1678.9	1700.9	1732.1	1763.3	1799.9	1851.2	1889.7
45°	1510.3	1514.0	1517.6	1526.8	1539.6	1559.8	1580.0	1602.0	1638.6	1682.6	1722.9
47.5°	1389.3	1396.7	1396.7	1398.5	1407.7	1424.2	1438.8	1466.3	1486.5	1510.3	1556.1
50°	1273.9	1279.4	1281.2	1281.2	1286.7	1297.7	1301.4	1319.7	1338.0	1360.0	1393.0
52.5°	1165.7	1165.7	1163.9	1171.2	1171.2	1178.6	1180.4	1191.4	1204.2	1228.0	1242.7
55°	1063.1	1063.1	1068.6	1064.9	1064.9	1068.6	1066.8	1068.6	1079.6	1094.2	1107.1
57.5°	964.1	962.3	967.8	964.1	962.3	965.9	969.6	962.3	964.1	978.8	978.8
60°	865.1	867.0	872.5	868.8	868.8	868.8	865.1	861.5	857.8	867.0	870.6
62.5°	786.3	780.8	786.3	780.8	784.5	782.7	779.0	771.7	773.5	769.8	766.2
65°	703.8	703.8	705.7	700.2	703.8	703.8	698.3	696.5	685.5	681.8	672.7
67.5°	632.4	632.4	634.2	630.5	630.5	632.4	626.9	621.4	610.4	604.9	592.0
70°	570.0	570.0	570.0	568.2	568.2	568.2	564.5	557.2	546.2	537.0	520.5
72.5°	513.2	515.0	513.2	513.2	518.7	513.2	507.7	500.4	491.2	472.9	458.2
75°	467.4	469.2	467.4	467.4	467.4	465.6	463.7	452.7	441.7	427.1	405.1
77.5°	427.1	427.1	428.9	427.1	427.1	425.2	419.7	410.6	397.7	384.9	359.3
80°	388.6	390.4	392.2	394.1	390.4	388.6	383.1	375.7	359.3	344.6	318.9
82.5°	361.1	359.3	361.1	362.9	359.3	357.4	351.9	342.8	329.9	309.8	284.1
85°	333.6	331.8	331.8	333.6	331.8	328.1	322.6	313.4	300.6	280.4	254.8
87.5°	306.1	307.9	309.8	307.9	306.1	302.4	296.9	287.8	273.1	256.6	229.1
90°	285.9	285.9	285.9	285.9	284.1	280.4	274.9	263.9	251.1	230.9	207.1
92.5°	267.6	267.6	267.6	267.6	265.8	260.3	254.8	245.6	230.9	210.8	188.8
95°	249.3	251.1	249.3	249.3	245.6	243.8	234.6	225.4	212.6	192.5	168.6
97.5°	229.1	230.9	229.1	229.1	227.3	223.6	218.1	207.1	194.3	176.0	154.0
100°	214.5	214.5	212.6	212.6	210.8	207.1	199.8	190.6	177.8	159.5	137.5
102.5°	198.0	199.8	198.0	198.0	194.3	190.6	185.1	176.0	163.1	144.8	124.6
105°	185.1	185.1	183.3	183.3	179.6	176.0	170.5	159.5	148.5	132.0	111.8
107.5°	172.3	172.3	170.5	170.5	166.8	163.1	155.8	146.6	135.6	119.1	100.8
110°	159.5	159.5	159.5	157.6	154.0	148.5	143.0	133.8	122.8	108.1	89.8



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-98SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	150.3	148.5	146.6	144.8	141.1	137.5	130.1	121.0	110.0	97.1	80.6
115°	137.5	137.5	135.6	133.8	130.1	124.6	119.1	111.8	100.8	86.1	71.5
117.5°	126.5	126.5	124.6	122.8	119.1	113.6	108.1	100.8	89.8	77.0	64.2
120°	115.5	115.5	113.6	111.8	108.1	102.6	99.0	89.8	80.6	67.8	56.8
122.5°	106.3	104.5	104.5	100.8	99.0	93.5	88.0	80.6	71.5	60.5	49.5
125°	95.3	95.3	93.5	91.6	89.8	84.3	78.8	71.5	62.3	53.2	44.0
127.5°	86.1	86.1	84.3	82.5	80.6	75.1	69.7	64.2	55.0	45.8	36.7
130°	77.0	77.0	75.1	73.3	71.5	66.0	62.3	55.0	47.7	40.3	31.2
132.5°	69.7	69.7	67.8	66.0	62.3	58.7	55.0	47.7	42.2	34.8	27.5
135°	62.3	60.5	60.5	58.7	55.0	51.3	47.7	42.2	34.8	29.3	22.0
137.5°	55.0	53.2	51.3	49.5	47.7	44.0	40.3	36.7	31.2	23.8	18.3
140°	47.7	45.8	45.8	44.0	40.3	38.5	34.8	29.3	25.7	20.2	14.7
142.5°	40.3	40.3	38.5	36.7	34.8	33.0	29.3	25.7	20.2	16.5	11.0
145°	34.8	33.0	33.0	31.2	29.3	25.7	23.8	20.2	16.5	12.8	9.2
147.5°	27.5	27.5	27.5	25.7	23.8	22.0	20.2	16.5	12.8	9.2	5.5
150°	22.0	22.0	22.0	20.2	18.3	16.5	14.7	12.8	9.2	5.5	3.7
152.5°	18.3	18.3	16.5	16.5	14.7	12.8	11.0	9.2	5.5	3.7	3.7
155°	12.8	12.8	12.8	11.0	11.0	9.2	7.3	5.5	3.7	3.7	3.7
157.5°	9.2	9.2	9.2	7.3	7.3	5.5	5.5	3.7	3.7	3.7	3.7
160°	5.5	5.5	5.5	5.5	3.7	3.7	3.7	3.7	3.7	3.7	3.7
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-LD5-98SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3332.2	3332.2	3332.2	3332.2	3332.2	3332.2	3332.2
2.5°	3310.2	3308.4	3323.1	3323.1	3306.6	3332.2	3359.7
5°	3299.2	3297.4	3312.1	3312.1	3297.4	3323.1	3352.4
7.5°	3277.2	3279.1	3293.7	3297.4	3279.1	3302.9	3334.1
10°	3253.4	3251.6	3268.1	3271.7	3257.1	3279.1	3308.4
12.5°	3214.9	3214.9	3231.4	3236.9	3222.3	3247.9	3275.4
15°	3174.6	3174.6	3185.6	3194.8	3181.9	3205.8	3233.3
17.5°	3123.3	3121.4	3132.4	3143.4	3130.6	3156.3	3185.6
20°	3057.3	3057.3	3070.1	3083.0	3073.8	3097.6	3130.6
22.5°	2987.6	2980.3	3002.3	3011.5	3006.0	3029.8	3062.8
25°	2899.7	2897.8	2919.8	2932.7	2925.3	2951.0	2980.3
27.5°	2804.4	2802.5	2824.5	2841.0	2837.3	2861.2	2894.2
30°	2688.9	2698.0	2718.2	2745.7	2736.5	2762.2	2797.0
32.5°	2567.9	2577.1	2600.9	2630.2	2632.1	2652.2	2687.0
35°	2423.1	2446.9	2463.4	2501.9	2509.3	2529.4	2566.1
37.5°	2271.0	2298.5	2333.3	2362.6	2377.3	2393.8	2435.9
40°	2100.5	2140.8	2179.3	2214.2	2232.5	2249.0	2289.3
42.5°	1946.6	1977.7	2014.4	2049.2	2082.2	2096.8	2139.0
45°	1772.4	1809.1	1842.1	1884.2	1917.2	1933.7	1975.9
47.5°	1602.0	1638.6	1682.6	1711.9	1746.8	1763.3	1803.6
50°	1438.8	1471.8	1508.5	1543.3	1572.6	1587.3	1622.1
52.5°	1277.5	1312.4	1347.2	1369.2	1400.3	1411.3	1440.7
55°	1134.6	1158.4	1189.6	1202.4	1233.5	1240.9	1261.0
57.5°	997.1	1013.6	1024.6	1046.6	1068.6	1085.1	1108.9
60°	872.5	879.8	887.1	900.0	918.3	923.8	933.0
62.5°	760.7	758.8	773.5	777.2	779.0	797.3	788.2
65°	661.7	663.5	650.7	645.2	652.5	658.0	654.3
67.5°	579.2	568.2	557.2	544.4	533.4	538.9	533.4
70°	498.6	489.4	471.1	452.7	445.4	434.4	428.9
72.5°	434.4	412.4	394.1	370.2	357.4	344.6	335.4
75°	384.9	353.8	328.1	302.4	284.1	265.8	262.1
77.5°	333.6	304.3	274.9	247.4	219.9	199.8	192.5
80°	293.3	265.8	230.9	198.0	168.6	143.0	133.8
82.5°	256.6	227.3	192.5	157.6	124.6	97.1	86.1
85°	225.4	194.3	159.5	124.6	91.6	62.3	47.7
87.5°	201.6	166.8	132.0	99.0	64.2	34.8	18.3
90°	179.6	146.6	113.6	78.8	45.8	18.3	0.0
92.5°	159.5	128.3	95.3	64.2	34.8	11.0	1.8
95°	141.1	113.6	80.6	51.3	25.7	7.3	1.8
97.5°	126.5	99.0	69.7	42.2	20.2	5.5	1.8
100°	113.6	86.1	60.5	34.8	16.5	3.7	1.8
102.5°	100.8	77.0	51.3	29.3	12.8	1.8	1.8
105°	89.8	67.8	44.0	25.7	11.0	1.8	1.8
107.5°	80.6	60.5	38.5	22.0	7.3	1.8	1.8
110°	71.5	51.3	33.0	18.3	5.5	1.8	1.8



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-98SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	64.2	45.8	29.3	14.7	3.7	1.8	1.8
115°	56.8	40.3	25.7	12.8	3.7	1.8	1.8
117.5°	49.5	34.8	22.0	9.2	1.8	1.8	1.8
120°	44.0	31.2	18.3	7.3	1.8	1.8	1.8
122.5°	38.5	25.7	14.7	5.5	1.8	1.8	1.8
125°	33.0	22.0	12.8	3.7	1.8	1.8	1.8
127.5°	27.5	18.3	9.2	3.7	1.8	1.8	1.8
130°	23.8	14.7	7.3	1.8	1.8	1.8	1.8
132.5°	20.2	11.0	5.5	1.8	1.8	1.8	1.8
135°	16.5	9.2	3.7	1.8	1.8	1.8	1.8
137.5°	12.8	7.3	3.7	1.8	1.8	1.8	1.8
140°	9.2	5.5	1.8	1.8	1.8	1.8	1.8
142.5°	7.3	3.7	1.8	1.8	1.8	1.8	1.8
145°	5.5	3.7	1.8	1.8	1.8	1.8	1.8
147.5°	3.7	3.7	3.7	3.7	1.8	1.8	1.8
150°	3.7	3.7	1.8	1.8	3.7	1.8	1.8
152.5°	3.7	1.8	1.8	1.8	3.7	1.8	1.8
155°	3.7	3.7	3.7	3.7	3.7	3.7	1.8
157.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7
160°	3.7	3.7	3.7	3.7	3.7	3.7	3.7
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)