

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-LD5-83SL-LN-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 (P33519)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNLED-LD5-83SL-LN-UNV-L950-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

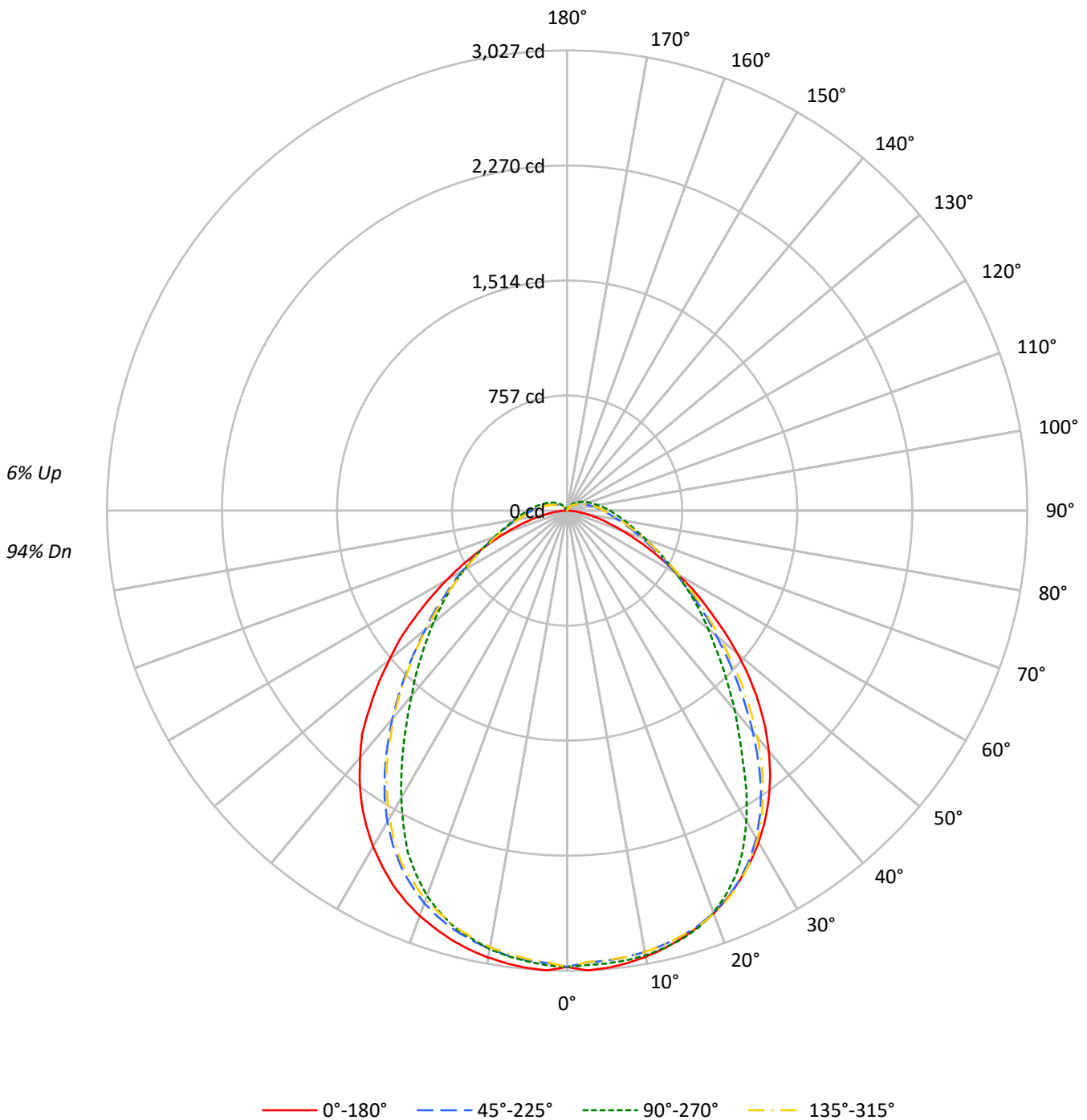
Lumens per Lamp: N/A
Luminaire Lumens: 7597.0 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 61
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-LD5-83SL-LN-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	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°	12129	12129	12129	12129
5°	12233	11743	12233	11691
10°	12195	11431	12215	11272
15°	12133	11089	12188	10801
20°	12058	10650	12129	10200
25°	11883	9999	12015	9410
30°	11651	9041	11804	8370
35°	11279	7868	11497	7327
40°	10737	6881	11021	6385
45°	10015	5982	10340	5639
50°	9018	5256	9415	4991
55°	7828	4642	8397	4407
60°	6613	4075	7210	3841
65°	5453	3603	6003	3341
70°	4377	3198	4900	2958
75°	3483	2953	3921	2717
80°	2576	2849	3035	2604
85°	1687	2865	2274	2633



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.6	3.7
10°-20°	816.1	10.7
20°-30°	1209.4	15.9
30°-40°	1343.6	17.7
40°-50°	1218.0	16.0
50°-60°	943.8	12.4
60°-70°	640.9	8.4
70°-80°	407.8	5.4
80°-90°	260.7	3.4
90°-100°	175.8	2.3
100°-110°	120.4	1.6
110°-120°	80.3	1.1
120°-130°	50.0	0.7
130°-140°	27.6	0.4
140°-150°	13.0	0.2
150°-160°	4.8	0.1
160°-170°	0.3	0.0
170°-180°	0.0	0.0
0°-30°	2310.1	30.4
0°-40°	3653.7	48.1
0°-60°	5815.6	76.6
0°-90°	7124.9	93.8
90°-120°	376.5	5.0
90°-150°	467.0	6.1
90°-180°	472.0	6.2
0°-180°	7597.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3002	3002	3002	3002	3002	
5°	3020	2990	3020	2977	3020	287
15°	2913	2918	2926	2842	2913	822
25°	2685	2635	2715	2480	2685	1237
35°	2312	2014	2356	1876	2312	1442
45°	1780	1440	1838	1357	1780	1367
55°	1136	1012	1219	961	1136	1023
65°	590	680	649	631	590	591
75°	236	454	266	418	236	254
85°	43	327	58	300	43	51
90°	0	282	3	258	0	2
95°	2	241	0	225	2	1
105°	2	177	0	167	2	2
115°	2	134	0	124	2	2
125°	2	99	2	88	2	2
135°	2	69	2	56	2	1
145°	2	45	2	31	2	1
155°	2	25	2	12	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°	3001.9	3001.9	3001.9	3001.9	3001.9	3001.9	3001.9	3001.9	3001.9	3001.9	3001.9
2.5°	3026.7	3023.4	3020.1	3015.1	3020.1	3033.3	3025.0	3006.8	3003.5	2973.8	2987.0
5°	3020.1	3015.1	3011.8	3006.8	3013.5	3030.0	3021.7	3005.2	3000.2	2972.2	2987.0
7.5°	3003.5	3000.2	2995.3	2995.3	3001.9	3018.4	3011.8	2993.6	2990.3	2962.3	2978.8
10°	2980.4	2978.8	2975.5	2975.5	2982.1	3001.9	2993.6	2977.1	2973.8	2947.4	2965.6
12.5°	2950.7	2952.4	2947.4	2947.4	2957.3	2977.1	2970.5	2952.4	2949.1	2925.9	2944.1
15°	2912.7	2914.4	2911.1	2912.7	2922.6	2945.8	2937.5	2921.0	2917.7	2899.5	2914.4
17.5°	2869.8	2871.4	2871.4	2869.8	2881.4	2904.5	2897.9	2883.0	2878.1	2863.2	2881.4
20°	2820.3	2820.3	2820.3	2820.3	2833.5	2856.6	2848.3	2836.8	2826.9	2815.3	2830.2
22.5°	2759.2	2757.5	2759.2	2764.1	2777.3	2795.5	2790.5	2777.3	2762.5	2755.9	2767.4
25°	2684.9	2689.8	2691.5	2696.4	2712.9	2727.8	2722.8	2709.6	2686.5	2681.6	2684.9
27.5°	2607.3	2610.6	2615.5	2613.9	2637.0	2651.8	2641.9	2630.4	2597.3	2592.4	2589.1
30°	2519.7	2524.7	2528.0	2526.3	2544.5	2561.0	2551.1	2536.3	2491.7	2488.4	2461.9
32.5°	2420.7	2425.6	2428.9	2428.9	2455.3	2461.9	2443.8	2422.3	2374.4	2362.9	2339.8
35°	2311.7	2316.6	2318.3	2318.3	2344.7	2343.1	2319.9	2290.2	2237.4	2222.5	2182.9
37.5°	2194.5	2197.8	2199.4	2209.3	2220.9	2211.0	2181.2	2143.3	2103.6	2062.4	2019.4
40°	2062.4	2067.3	2070.6	2077.2	2088.8	2077.2	2034.3	1988.1	1945.1	1898.9	1856.0
42.5°	1927.0	1941.8	1938.5	1936.9	1943.5	1912.1	1879.1	1826.2	1783.3	1735.4	1692.5
45°	1780.0	1778.3	1786.6	1789.9	1788.3	1761.8	1715.6	1667.7	1624.8	1575.3	1538.9
47.5°	1624.8	1623.1	1629.7	1633.0	1623.1	1595.1	1558.7	1504.2	1467.9	1425.0	1396.9
50°	1461.3	1461.3	1471.2	1461.3	1456.4	1428.3	1398.6	1344.1	1316.0	1278.0	1261.5
52.5°	1297.8	1312.7	1302.8	1299.5	1294.5	1266.5	1243.4	1198.8	1175.7	1159.1	1139.3
55°	1136.0	1152.5	1145.9	1141.0	1139.3	1116.2	1094.7	1061.7	1046.9	1035.3	1023.7
57.5°	999.0	997.3	994.0	989.1	990.7	972.6	951.1	932.9	926.3	921.4	924.7
60°	840.5	853.7	848.7	850.4	852.0	848.7	830.6	819.0	820.6	822.3	827.3
62.5°	710.0	721.6	729.8	723.2	726.5	731.5	721.6	718.3	724.9	731.5	738.1
65°	589.5	601.0	609.3	607.6	617.6	627.5	625.8	629.1	644.0	652.2	660.5
67.5°	480.5	492.1	503.6	505.3	520.1	535.0	541.6	553.2	569.7	581.2	591.1
70°	386.4	396.3	409.5	417.8	437.6	457.4	468.9	492.1	502.0	518.5	525.1
72.5°	302.2	310.4	328.6	348.4	364.9	389.7	412.8	432.6	447.5	465.6	473.9
75°	236.1	239.4	259.2	282.4	305.5	333.5	358.3	379.8	399.6	417.8	431.0
77.5°	173.4	178.3	196.5	227.9	254.3	284.0	312.1	335.2	356.7	374.8	393.0
80°	120.5	130.4	150.3	181.6	211.4	244.4	270.8	297.2	320.3	338.5	356.7
82.5°	77.6	85.9	113.9	145.3	176.7	209.7	237.8	264.2	289.0	308.8	325.3
85°	42.9	54.5	82.6	115.6	147.0	180.0	209.7	236.1	260.9	279.1	295.6
87.5°	16.5	33.0	59.4	90.8	122.2	153.6	184.9	209.7	234.5	254.3	269.1
90°	0.0	19.8	44.6	76.0	107.3	138.7	168.4	194.8	218.0	236.1	252.6
92.5°	1.7	13.2	34.7	61.1	90.8	120.5	148.6	175.0	198.1	216.3	231.2
95°	1.7	9.9	28.1	52.8	79.3	107.3	133.7	158.5	180.0	198.1	213.0
97.5°	1.7	6.6	23.1	46.2	69.4	97.4	122.2	145.3	165.1	183.3	194.8
100°	1.7	6.6	19.8	39.6	62.7	87.5	110.6	133.7	151.9	166.8	180.0
102.5°	1.7	5.0	16.5	34.7	56.1	77.6	100.7	122.2	138.7	153.6	166.8
105°	1.7	5.0	14.9	29.7	49.5	71.0	90.8	110.6	128.8	142.0	153.6
107.5°	1.7	3.3	13.2	24.8	42.9	64.4	84.2	100.7	117.2	130.4	142.0
110°	1.7	3.3	11.6	23.1	38.0	57.8	76.0	92.5	107.3	120.5	130.4



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CATALOG NUMBER: 8SNLED-LD5-83SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.7	3.3	9.9	21.5	34.7	51.2	69.4	84.2	99.1	110.6	120.5
115°	1.7	3.3	9.9	19.8	31.4	44.6	61.1	77.6	89.2	102.4	110.6
117.5°	1.7	3.3	8.3	16.5	29.7	41.3	56.1	69.4	82.6	94.1	102.4
120°	1.7	3.3	8.3	14.9	26.4	38.0	49.5	62.7	76.0	84.2	92.5
122.5°	1.7	3.3	6.6	14.9	23.1	34.7	44.6	56.1	67.7	77.6	85.9
125°	1.7	3.3	6.6	13.2	21.5	31.4	41.3	49.5	61.1	69.4	77.6
127.5°	1.7	3.3	6.6	11.6	19.8	28.1	38.0	46.2	54.5	62.7	69.4
130°	1.7	3.3	5.0	9.9	18.2	24.8	33.0	42.9	49.5	56.1	62.7
132.5°	1.7	3.3	5.0	9.9	14.9	21.5	29.7	38.0	44.6	51.2	56.1
135°	1.7	3.3	5.0	8.3	13.2	19.8	24.8	33.0	39.6	46.2	51.2
137.5°	1.7	3.3	5.0	8.3	11.6	16.5	21.5	28.1	34.7	39.6	46.2
140°	1.7	3.3	5.0	6.6	9.9	14.9	19.8	23.1	29.7	34.7	39.6
142.5°	1.7	3.3	5.0	6.6	9.9	13.2	16.5	19.8	24.8	29.7	34.7
145°	1.7	3.3	5.0	6.6	8.3	11.6	14.9	18.2	19.8	24.8	28.1
147.5°	1.7	3.3	5.0	6.6	6.6	9.9	13.2	14.9	18.2	19.8	23.1
150°	1.7	3.3	5.0	5.0	6.6	8.3	11.6	13.2	14.9	18.2	19.8
152.5°	1.7	3.3	5.0	5.0	6.6	8.3	9.9	11.6	13.2	14.9	16.5
155°	1.7	3.3	5.0	5.0	5.0	6.6	8.3	9.9	11.6	13.2	14.9
157.5°	3.3	3.3	3.3	5.0	5.0	6.6	6.6	8.3	9.9	9.9	11.6
160°	3.3	3.3	3.3	5.0	5.0	5.0	6.6	6.6	8.3	8.3	9.9
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°	3001.9	3001.9	3001.9	3001.9	3001.9	3001.9	3001.9	3001.9	3001.9	3001.9	3001.9
2.5°	2983.7	2988.7	3003.5	3003.5	3000.2	2996.9	2996.9	2992.0	2995.3	3001.9	2998.6
5°	2983.7	2988.7	3003.5	3003.5	3000.2	2996.9	2995.3	2990.3	2995.3	3001.9	2998.6
7.5°	2973.8	2980.4	2995.3	2995.3	2992.0	2990.3	2987.0	2983.7	2988.7	2995.3	2992.0
10°	2960.6	2967.2	2982.1	2982.1	2978.8	2978.8	2973.8	2970.5	2977.1	2982.1	2980.4
12.5°	2940.8	2949.1	2962.3	2960.6	2957.3	2959.0	2954.0	2947.4	2954.0	2959.0	2960.6
15°	2912.7	2922.6	2935.8	2932.5	2927.6	2930.9	2922.6	2917.7	2922.6	2932.5	2930.9
17.5°	2876.4	2883.0	2892.9	2892.9	2888.0	2884.7	2881.4	2876.4	2879.7	2886.3	2888.0
20°	2825.2	2833.5	2838.4	2833.5	2831.8	2826.9	2820.3	2815.3	2821.9	2831.8	2833.5
22.5°	2757.5	2759.2	2770.7	2759.2	2750.9	2749.3	2742.7	2732.7	2742.7	2750.9	2752.6
25°	2673.3	2681.6	2676.6	2656.8	2656.8	2643.6	2640.3	2635.3	2637.0	2651.8	2658.4
27.5°	2566.0	2569.3	2556.1	2539.6	2524.7	2516.4	2504.9	2506.5	2506.5	2526.3	2532.9
30°	2448.7	2430.6	2419.0	2392.6	2381.0	2361.2	2357.9	2357.9	2354.6	2364.5	2394.2
32.5°	2308.4	2283.6	2265.5	2240.7	2220.9	2201.1	2191.2	2196.1	2194.5	2219.2	2229.1
35°	2154.8	2140.0	2102.0	2070.6	2059.1	2029.3	2029.3	2014.5	2024.4	2052.4	2064.0
37.5°	1993.0	1969.9	1938.5	1903.8	1895.6	1872.5	1864.2	1856.0	1877.4	1882.4	1893.9
40°	1827.9	1806.4	1776.7	1743.7	1743.7	1715.6	1715.6	1715.6	1717.3	1727.2	1748.6
42.5°	1671.0	1647.9	1621.5	1598.4	1595.1	1573.6	1573.6	1571.9	1575.3	1583.5	1603.3
45°	1519.1	1500.9	1472.9	1461.3	1463.0	1439.9	1444.8	1439.9	1446.5	1454.7	1461.3
47.5°	1378.8	1367.2	1355.6	1339.1	1334.2	1332.5	1324.3	1317.7	1329.2	1329.2	1339.1
50°	1248.3	1241.7	1235.1	1225.2	1226.8	1220.2	1210.3	1210.3	1218.6	1220.2	1226.8
52.5°	1134.4	1126.1	1117.9	1119.5	1121.2	1117.9	1112.9	1108.0	1112.9	1116.2	1124.5
55°	1020.4	1013.8	1022.1	1018.8	1022.1	1018.8	1015.5	1012.2	1020.4	1015.5	1023.7
57.5°	918.1	924.7	928.0	921.4	926.3	923.0	924.7	919.7	926.3	929.6	928.0
60°	824.0	833.9	828.9	830.6	837.2	833.9	827.3	832.2	838.8	840.5	838.8
62.5°	738.1	749.6	754.6	751.3	752.9	749.6	754.6	748.0	756.3	759.6	754.6
65°	660.5	673.7	677.0	677.0	677.0	673.7	678.6	680.3	683.6	683.6	680.3
67.5°	594.4	606.0	609.3	612.6	609.3	606.0	606.0	607.6	614.2	617.6	614.2
70°	535.0	546.5	548.2	548.2	549.9	553.2	546.5	549.9	554.8	556.5	554.8
72.5°	483.8	495.4	498.7	497.0	498.7	500.3	500.3	497.0	502.0	505.3	505.3
75°	442.5	449.1	452.4	452.4	454.1	455.7	455.7	454.1	457.4	459.0	460.7
77.5°	404.5	409.5	414.5	414.5	416.1	414.5	417.8	417.8	419.4	421.1	422.7
80°	366.6	373.2	376.5	378.1	381.4	383.1	383.1	383.1	384.7	386.4	386.4
82.5°	336.8	341.8	346.8	351.7	351.7	353.4	353.4	353.4	355.0	355.0	356.7
85°	307.1	313.7	318.7	322.0	323.6	325.3	325.3	326.9	326.9	326.9	328.6
87.5°	280.7	289.0	292.3	295.6	297.2	300.5	300.5	300.5	302.2	302.2	302.2
90°	262.5	270.8	274.1	277.4	279.1	280.7	280.7	282.4	282.4	284.0	284.0
92.5°	241.1	249.3	255.9	255.9	257.6	260.9	259.2	259.2	260.9	262.5	262.5
95°	224.6	231.2	236.1	237.8	239.4	239.4	239.4	241.1	239.4	241.1	241.1
97.5°	204.7	211.4	216.3	219.6	221.3	221.3	221.3	222.9	221.3	222.9	222.9
100°	188.2	194.8	199.8	201.4	204.7	204.7	204.7	204.7	204.7	204.7	206.4
102.5°	175.0	181.6	184.9	186.6	188.2	189.9	189.9	189.9	189.9	191.5	191.5
105°	161.8	168.4	171.7	173.4	175.0	176.7	176.7	176.7	178.3	178.3	176.7
107.5°	150.3	155.2	158.5	161.8	163.5	163.5	165.1	165.1	165.1	165.1	165.1
110°	138.7	143.7	148.6	151.9	151.9	153.6	153.6	155.2	155.2	153.6	155.2



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-83SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	127.1	133.7	137.1	140.4	142.0	143.7	143.7	143.7	143.7	143.7	143.7
115°	117.2	123.8	127.1	130.4	132.1	133.7	133.7	133.7	133.7	133.7	133.7
117.5°	109.0	115.6	118.9	120.5	122.2	123.8	125.5	125.5	125.5	125.5	123.8
120°	100.7	105.7	109.0	112.3	113.9	115.6	115.6	115.6	115.6	115.6	115.6
122.5°	92.5	97.4	100.7	104.0	105.7	107.3	107.3	107.3	107.3	107.3	107.3
125°	84.2	89.2	92.5	95.8	97.4	99.1	99.1	99.1	99.1	99.1	99.1
127.5°	76.0	80.9	85.9	87.5	89.2	90.8	90.8	90.8	92.5	90.8	90.8
130°	67.7	72.7	77.6	79.3	80.9	82.6	84.2	84.2	84.2	84.2	82.6
132.5°	61.1	66.0	69.4	71.0	74.3	74.3	76.0	76.0	76.0	76.0	74.3
135°	56.1	59.4	62.7	64.4	67.7	67.7	67.7	69.4	69.4	67.7	66.0
137.5°	49.5	52.8	56.1	57.8	59.4	61.1	61.1	62.7	61.1	61.1	61.1
140°	46.2	47.9	51.2	52.8	54.5	54.5	54.5	56.1	56.1	54.5	54.5
142.5°	39.6	42.9	46.2	47.9	49.5	49.5	49.5	49.5	49.5	49.5	49.5
145°	33.0	38.0	39.6	42.9	42.9	44.6	44.6	44.6	44.6	44.6	42.9
147.5°	28.1	31.4	36.3	38.0	38.0	39.6	39.6	39.6	39.6	39.6	38.0
150°	21.5	24.8	29.7	33.0	33.0	34.7	34.7	34.7	34.7	33.0	33.0
152.5°	18.2	21.5	23.1	26.4	28.1	28.1	28.1	29.7	28.1	28.1	28.1
155°	16.5	18.2	19.8	21.5	23.1	24.8	24.8	24.8	24.8	23.1	23.1
157.5°	13.2	14.9	16.5	18.2	19.8	21.5	21.5	21.5	21.5	21.5	19.8
160°	9.9	11.6	13.2	13.2	14.9	16.5	18.2	16.5	16.5	16.5	16.5
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-LD5-83SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3001.9	3001.9	3001.9	3001.9	3001.9	3001.9	3001.9	3001.9	3001.9	3001.9	3001.9
2.5°	2995.3	2993.6	2998.6	2990.3	2965.6	2972.2	2968.9	2983.7	2987.0	2990.3	3005.2
5°	2995.3	2993.6	2996.9	2990.3	2963.9	2968.9	2965.6	2980.4	2983.7	2985.4	3000.2
7.5°	2988.7	2987.0	2992.0	2983.7	2955.7	2962.3	2957.3	2972.2	2973.8	2975.5	2988.7
10°	2975.5	2973.8	2977.1	2970.5	2942.4	2949.1	2942.4	2957.3	2957.3	2960.6	2970.5
12.5°	2955.7	2952.4	2959.0	2950.7	2919.3	2927.6	2924.3	2934.2	2935.8	2937.5	2947.4
15°	2927.6	2924.3	2929.2	2924.3	2896.2	2897.9	2892.9	2907.8	2909.4	2906.1	2916.0
17.5°	2886.3	2883.0	2892.9	2889.6	2861.5	2868.1	2866.5	2869.8	2874.7	2866.5	2879.7
20°	2835.1	2838.4	2841.7	2843.4	2821.9	2821.9	2820.3	2826.9	2831.8	2825.2	2835.1
22.5°	2759.2	2767.4	2777.3	2780.6	2765.8	2764.1	2774.0	2770.7	2775.7	2772.4	2779.0
25°	2663.4	2679.9	2689.8	2699.7	2691.5	2694.8	2709.6	2712.9	2712.9	2711.3	2717.9
27.5°	2544.5	2566.0	2584.1	2605.6	2597.3	2604.0	2628.7	2632.0	2638.6	2632.0	2645.2
30°	2402.5	2422.3	2457.0	2488.4	2491.7	2501.6	2536.3	2539.6	2557.7	2551.1	2556.1
32.5°	2260.5	2270.4	2310.0	2341.4	2361.2	2386.0	2424.0	2430.6	2455.3	2460.3	2460.3
35°	2082.2	2110.2	2146.6	2191.2	2215.9	2242.3	2293.5	2303.4	2339.8	2351.3	2364.5
37.5°	1931.9	1958.3	1981.4	2027.7	2072.3	2102.0	2143.3	2168.0	2206.0	2227.5	2244.0
40°	1771.7	1793.2	1818.0	1864.2	1902.2	1946.8	1988.1	2017.8	2065.7	2090.4	2111.9
42.5°	1619.8	1636.3	1662.8	1695.8	1735.4	1785.0	1824.6	1859.3	1910.4	1945.1	1969.9
45°	1484.4	1494.3	1517.5	1542.2	1576.9	1628.1	1666.1	1710.6	1751.9	1788.3	1818.0
47.5°	1357.3	1370.5	1382.1	1398.6	1429.9	1461.3	1505.9	1548.8	1590.1	1629.7	1659.5
50°	1240.1	1240.1	1258.2	1269.8	1291.2	1319.3	1354.0	1383.7	1434.9	1463.0	1500.9
52.5°	1126.1	1132.7	1142.6	1149.2	1165.8	1183.9	1212.0	1236.8	1279.7	1306.1	1342.4
55°	1025.4	1032.0	1037.0	1040.3	1050.2	1071.6	1081.5	1101.4	1131.1	1152.5	1183.9
57.5°	929.6	932.9	937.9	939.5	941.2	954.4	962.7	967.6	997.3	1018.8	1045.2
60°	842.1	842.1	847.1	845.4	843.8	850.4	848.7	853.7	871.8	885.0	896.6
62.5°	759.6	759.6	761.2	757.9	756.3	756.3	749.6	754.6	759.6	761.2	769.5
65°	683.6	691.9	685.3	686.9	677.0	673.7	670.4	660.5	658.8	652.2	655.5
67.5°	615.9	622.5	615.9	615.9	607.6	601.0	592.8	576.3	571.3	558.1	554.8
70°	561.4	556.5	559.8	554.8	544.9	536.6	525.1	511.9	495.4	478.8	467.3
72.5°	508.6	508.6	505.3	500.3	495.4	478.8	465.6	450.8	431.0	409.5	393.0
75°	457.4	459.0	459.0	454.1	445.8	431.0	416.1	394.6	373.2	348.4	326.9
77.5°	421.1	421.1	421.1	412.8	404.5	391.3	373.2	350.1	326.9	297.2	272.4
80°	386.4	384.7	384.7	374.8	366.6	351.7	333.5	310.4	285.7	254.3	226.2
82.5°	358.3	356.7	353.4	345.1	333.5	318.7	300.5	275.8	249.3	221.3	186.6
85°	328.6	326.9	323.6	315.4	303.8	290.6	270.8	246.0	219.6	188.2	155.2
87.5°	302.2	300.5	295.6	290.6	277.4	262.5	242.7	219.6	191.5	161.8	128.8
90°	284.0	280.7	277.4	270.8	259.2	242.7	222.9	198.1	170.1	140.4	107.3
92.5°	262.5	260.9	255.9	249.3	239.4	222.9	203.1	180.0	151.9	123.8	92.5
95°	241.1	239.4	236.1	229.5	219.6	204.7	186.6	163.5	137.1	109.0	80.9
97.5°	221.3	221.3	216.3	211.4	199.8	188.2	170.1	148.6	123.8	99.1	72.7
100°	204.7	204.7	199.8	193.2	184.9	173.4	155.2	135.4	112.3	89.2	62.7
102.5°	189.9	188.2	184.9	178.3	170.1	158.5	142.0	123.8	102.4	79.3	56.1
105°	176.7	175.0	171.7	165.1	158.5	145.3	132.1	113.9	92.5	71.0	49.5
107.5°	163.5	161.8	160.2	153.6	145.3	133.7	120.5	102.4	84.2	64.4	44.6
110°	151.9	150.3	147.0	140.4	132.1	122.2	109.0	94.1	76.0	57.8	39.6



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-83SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	142.0	140.4	137.1	130.4	123.8	112.3	100.7	84.2	69.4	52.8	34.7
115°	132.1	130.4	127.1	120.5	112.3	102.4	90.8	77.6	61.1	46.2	31.4
117.5°	122.2	120.5	117.2	112.3	104.0	94.1	82.6	69.4	54.5	42.9	28.1
120°	113.9	110.6	107.3	102.4	94.1	85.9	74.3	62.7	49.5	38.0	24.8
122.5°	105.7	102.4	99.1	94.1	85.9	77.6	66.0	56.1	46.2	34.7	23.1
125°	95.8	94.1	90.8	85.9	77.6	69.4	61.1	51.2	41.3	31.4	19.8
127.5°	87.5	85.9	82.6	76.0	69.4	62.7	54.5	46.2	36.3	26.4	18.2
130°	80.9	77.6	74.3	69.4	64.4	57.8	49.5	41.3	33.0	23.1	16.5
132.5°	72.7	69.4	66.0	62.7	57.8	51.2	44.6	36.3	29.7	21.5	14.9
135°	66.0	62.7	59.4	56.1	51.2	46.2	39.6	33.0	26.4	19.8	13.2
137.5°	57.8	56.1	54.5	51.2	46.2	41.3	36.3	28.1	23.1	18.2	11.6
140°	52.8	51.2	49.5	44.6	41.3	36.3	31.4	24.8	19.8	14.9	9.9
142.5°	47.9	46.2	42.9	39.6	36.3	33.0	26.4	23.1	18.2	13.2	9.9
145°	41.3	39.6	38.0	34.7	31.4	26.4	23.1	19.8	16.5	11.6	8.3
147.5°	38.0	36.3	33.0	29.7	26.4	23.1	21.5	18.2	13.2	9.9	6.6
150°	31.4	29.7	28.1	24.8	23.1	21.5	18.2	14.9	11.6	8.3	6.6
152.5°	26.4	24.8	23.1	23.1	19.8	18.2	14.9	13.2	9.9	8.3	5.0
155°	23.1	23.1	21.5	19.8	16.5	14.9	13.2	9.9	8.3	6.6	5.0
157.5°	19.8	18.2	16.5	16.5	14.9	13.2	9.9	8.3	6.6	6.6	5.0
160°	16.5	14.9	14.9	13.2	11.6	9.9	8.3	8.3	6.6	5.0	5.0
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-LD5-83SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3001.9	3001.9	3001.9	3001.9	3001.9	3001.9	3001.9	3001.9	3001.9	3001.9	3001.9
2.5°	3006.8	2988.7	3005.2	3026.7	3026.7	3023.4	3020.1	3026.7	3043.2	3036.6	3016.8
5°	3001.9	2983.7	2998.6	3020.1	3020.1	3015.1	3011.8	3016.8	3034.9	3026.7	3008.5
7.5°	2992.0	2975.5	2985.4	3005.2	3005.2	3000.2	2996.9	3003.5	3018.4	3010.1	2990.3
10°	2973.8	2955.7	2967.2	2985.4	2983.7	2980.4	2975.5	2983.7	2996.9	2985.4	2962.3
12.5°	2950.7	2932.5	2942.4	2959.0	2957.3	2950.7	2947.4	2952.4	2963.9	2957.3	2932.5
15°	2919.3	2901.2	2909.4	2925.9	2921.0	2916.0	2909.4	2911.1	2925.9	2914.4	2888.0
17.5°	2881.4	2861.5	2868.1	2883.0	2878.1	2873.1	2864.8	2866.5	2883.0	2866.5	2838.4
20°	2835.1	2813.7	2818.6	2836.8	2828.5	2820.3	2812.0	2812.0	2828.5	2810.4	2779.0
22.5°	2785.6	2764.1	2767.4	2780.6	2774.0	2759.2	2750.9	2755.9	2764.1	2741.0	2708.0
25°	2724.5	2696.4	2701.4	2714.6	2709.6	2689.8	2681.6	2684.9	2681.6	2663.4	2628.7
27.5°	2653.5	2623.8	2627.1	2635.3	2628.7	2610.6	2600.6	2602.3	2595.7	2572.6	2532.9
30°	2564.3	2549.5	2547.8	2552.8	2542.9	2524.7	2513.1	2509.8	2508.2	2475.2	2427.3
32.5°	2473.5	2460.3	2452.0	2458.6	2447.1	2428.9	2409.1	2409.1	2392.6	2361.2	2319.9
35°	2381.0	2359.6	2351.3	2356.3	2343.1	2319.9	2303.4	2295.2	2270.4	2230.8	2186.2
37.5°	2262.2	2247.3	2237.4	2242.3	2227.5	2211.0	2179.6	2171.3	2144.9	2090.4	2034.3
40°	2133.4	2121.8	2111.9	2116.8	2100.3	2075.6	2047.5	2034.3	2004.6	1943.5	1898.9
42.5°	1994.7	1989.7	1978.1	1996.3	1963.3	1938.5	1910.4	1889.0	1859.3	1793.2	1742.0
45°	1847.7	1859.3	1832.8	1837.8	1816.3	1794.9	1765.1	1733.8	1704.0	1641.3	1583.5
47.5°	1692.5	1700.7	1682.6	1685.9	1662.8	1642.9	1616.5	1576.9	1543.9	1489.4	1438.2
50°	1532.3	1529.0	1529.0	1525.7	1507.6	1482.8	1456.4	1420.0	1387.0	1337.5	1294.5
52.5°	1362.2	1368.8	1372.2	1380.4	1357.3	1342.4	1301.2	1269.8	1245.0	1193.8	1157.5
55°	1198.8	1221.9	1215.3	1218.6	1192.2	1180.6	1147.6	1122.8	1086.5	1056.8	1033.7
57.5°	1050.2	1055.1	1058.4	1063.4	1051.8	1028.7	1002.3	982.5	954.4	929.6	913.1
60°	906.5	906.5	908.2	916.4	904.9	885.0	865.2	850.4	830.6	815.7	805.8
62.5°	771.1	782.7	784.3	777.7	762.9	752.9	739.7	731.5	718.3	713.3	710.0
65°	645.6	645.6	645.6	648.9	640.7	634.1	625.8	624.2	629.1	622.5	625.8
67.5°	539.9	535.0	531.7	533.3	530.0	526.7	525.1	530.0	539.9	539.9	548.2
70°	449.1	439.2	432.6	432.6	432.6	434.3	439.2	449.1	465.6	472.2	483.8
72.5°	374.8	353.4	343.5	343.5	345.1	351.7	366.6	384.7	399.6	412.8	427.7
75°	303.8	282.4	267.5	265.8	269.1	279.1	300.5	317.0	341.8	360.0	378.1
77.5°	246.0	219.6	201.4	199.8	204.7	219.6	246.0	267.5	295.6	315.4	335.2
80°	196.5	166.8	151.9	142.0	150.3	168.4	198.1	224.6	251.0	277.4	302.2
82.5°	156.9	128.8	105.7	95.8	105.7	130.4	158.5	189.9	216.3	244.4	269.1
85°	123.8	94.1	67.7	57.8	69.4	95.8	127.1	158.5	188.2	216.3	241.1
87.5°	97.4	67.7	41.3	28.1	42.9	71.0	100.7	132.1	163.5	191.5	216.3
90°	76.0	47.9	23.1	3.3	24.8	51.2	80.9	110.6	142.0	170.1	194.8
92.5°	64.4	36.3	13.2	0.0	14.9	38.0	66.0	95.8	123.8	151.9	176.7
95°	54.5	29.7	9.9	0.0	9.9	29.7	54.5	80.9	109.0	137.1	161.8
97.5°	46.2	23.1	6.6	0.0	6.6	23.1	44.6	71.0	95.8	122.2	145.3
100°	39.6	19.8	5.0	0.0	5.0	18.2	38.0	61.1	85.9	110.6	132.1
102.5°	34.7	16.5	3.3	0.0	3.3	14.9	31.4	52.8	74.3	97.4	118.9
105°	29.7	13.2	3.3	0.0	1.7	11.6	26.4	46.2	66.0	87.5	107.3
107.5°	26.4	11.6	3.3	0.0	1.7	9.9	23.1	39.6	59.4	77.6	95.8
110°	23.1	9.9	3.3	0.0	1.7	6.6	19.8	34.7	51.2	69.4	87.5



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-83SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	19.8	8.3	1.7	0.0	0.0	5.0	16.5	29.7	44.6	62.7	77.6
115°	18.2	8.3	1.7	0.0	0.0	3.3	13.2	26.4	39.6	56.1	69.4
117.5°	16.5	6.6	1.7	0.0	1.7	3.3	11.6	23.1	34.7	47.9	62.7
120°	14.9	6.6	1.7	0.0	1.7	1.7	8.3	19.8	29.7	42.9	54.5
122.5°	13.2	6.6	1.7	0.0	1.7	1.7	6.6	16.5	26.4	38.0	47.9
125°	11.6	5.0	3.3	1.7	1.7	1.7	5.0	13.2	23.1	31.4	42.9
127.5°	11.6	5.0	3.3	1.7	1.7	1.7	3.3	11.6	18.2	28.1	38.0
130°	9.9	5.0	3.3	1.7	1.7	1.7	1.7	8.3	16.5	23.1	31.4
132.5°	8.3	5.0	3.3	1.7	1.7	1.7	1.7	5.0	11.6	19.8	26.4
135°	8.3	5.0	3.3	1.7	1.7	1.7	1.7	3.3	8.3	14.9	21.5
137.5°	6.6	3.3	3.3	1.7	1.7	1.7	1.7	1.7	6.6	11.6	16.5
140°	6.6	3.3	3.3	1.7	1.7	1.7	1.7	1.7	5.0	8.3	13.2
142.5°	5.0	3.3	3.3	1.7	1.7	1.7	1.7	1.7	3.3	6.6	9.9
145°	5.0	3.3	3.3	1.7	1.7	1.7	1.7	1.7	1.7	3.3	6.6
147.5°	5.0	5.0	3.3	1.7	1.7	1.7	1.7	1.7	1.7	3.3	5.0
150°	5.0	3.3	3.3	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.3
152.5°	5.0	3.3	3.3	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.3
155°	5.0	3.3	3.3	1.7	1.7	1.7	1.7	1.7	1.7	3.3	3.3
157.5°	5.0	3.3	3.3	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.3
160°	5.0	3.3	3.3	1.7	3.3	1.7	3.3	3.3	3.3	3.3	3.3
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-LD5-83SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3001.9	3001.9	3001.9	3001.9	3001.9	3001.9	3001.9	3001.9	3001.9	3001.9	3001.9
2.5°	3010.1	2978.8	2995.3	2990.3	2996.9	3010.1	3008.5	3005.2	3005.2	3000.2	2993.6
5°	3000.2	2970.5	2985.4	2977.1	2985.4	2996.9	2995.3	2990.3	2993.6	2985.4	2977.1
7.5°	2980.4	2954.0	2967.2	2960.6	2967.2	2978.8	2973.8	2972.2	2975.5	2962.3	2957.3
10°	2957.3	2927.6	2942.4	2934.2	2942.4	2950.7	2947.4	2940.8	2947.4	2934.2	2929.2
12.5°	2921.0	2896.2	2906.1	2902.8	2907.8	2916.0	2909.4	2904.5	2907.8	2896.2	2886.3
15°	2881.4	2856.6	2864.8	2859.9	2863.2	2873.1	2861.5	2859.9	2856.6	2845.0	2841.7
17.5°	2830.2	2807.1	2815.3	2807.1	2812.0	2808.7	2807.1	2798.8	2798.8	2785.6	2775.7
20°	2767.4	2747.6	2742.7	2736.0	2742.7	2736.0	2726.1	2719.5	2717.9	2704.7	2696.4
22.5°	2694.8	2671.7	2675.0	2656.8	2658.4	2648.5	2632.0	2625.4	2618.8	2604.0	2592.4
25°	2607.3	2584.1	2567.6	2556.1	2541.2	2539.6	2518.1	2501.6	2499.9	2481.8	2480.1
27.5°	2508.2	2481.8	2468.6	2440.5	2422.3	2407.5	2389.3	2372.8	2364.5	2344.7	2331.5
30°	2394.2	2364.5	2331.5	2311.7	2283.6	2272.1	2240.7	2220.9	2214.3	2192.8	2182.9
32.5°	2265.5	2234.1	2207.7	2169.7	2138.3	2121.8	2090.4	2070.6	2062.4	2039.2	2026.0
35°	2125.1	2090.4	2059.1	2022.7	1998.0	1969.9	1931.9	1912.1	1893.9	1885.7	1875.8
37.5°	1978.1	1940.2	1903.8	1867.5	1846.0	1813.0	1780.0	1766.8	1745.3	1737.1	1727.2
40°	1826.2	1788.3	1753.6	1718.9	1694.1	1664.4	1634.7	1629.7	1606.6	1598.4	1591.8
42.5°	1676.0	1636.3	1596.7	1571.9	1553.8	1524.1	1504.2	1499.3	1479.5	1474.5	1474.5
45°	1540.6	1491.0	1458.0	1436.5	1421.7	1396.9	1380.4	1377.1	1360.6	1357.3	1357.3
47.5°	1395.3	1349.0	1324.3	1311.1	1297.8	1279.7	1269.8	1269.8	1253.3	1250.0	1248.3
50°	1259.9	1216.9	1198.8	1185.6	1183.9	1170.7	1162.4	1159.1	1159.1	1147.6	1149.2
52.5°	1131.1	1109.6	1094.7	1086.5	1076.6	1068.3	1061.7	1061.7	1056.8	1048.5	1051.8
55°	1012.2	987.4	989.1	982.5	977.5	972.6	974.2	964.3	962.7	956.0	961.0
57.5°	893.3	893.3	890.0	885.0	876.8	880.1	880.1	880.1	871.8	866.9	871.8
60°	792.6	797.5	789.3	794.2	790.9	792.6	789.3	789.3	784.3	782.7	784.3
62.5°	703.4	711.7	708.4	715.0	711.7	713.3	716.6	710.0	706.7	703.4	706.7
65°	624.2	634.1	632.4	637.4	639.0	640.7	642.3	639.0	635.7	632.4	630.8
67.5°	554.8	564.7	571.3	573.0	574.6	579.6	577.9	574.6	571.3	566.4	564.7
70°	492.1	505.3	513.5	516.8	523.4	520.1	520.1	518.5	515.2	510.2	508.6
72.5°	439.2	454.1	462.3	465.6	472.2	472.2	470.6	468.9	465.6	460.7	459.0
75°	393.0	406.2	417.8	424.4	429.3	429.3	427.7	426.0	422.7	419.4	417.8
77.5°	356.7	368.2	378.1	386.4	389.7	391.3	389.7	386.4	386.4	384.7	383.1
80°	320.3	333.5	343.5	351.7	356.7	356.7	355.0	356.7	353.4	351.7	350.1
82.5°	289.0	303.8	315.4	323.6	326.9	328.6	326.9	328.6	325.3	325.3	325.3
85°	260.9	275.8	289.0	295.6	300.5	302.2	302.2	302.2	300.5	300.5	300.5
87.5°	237.8	252.6	265.8	272.4	277.4	279.1	279.1	280.7	277.4	277.4	277.4
90°	216.3	231.2	244.4	251.0	255.9	259.2	259.2	260.9	259.2	257.6	257.6
92.5°	196.5	213.0	226.2	232.8	237.8	242.7	242.7	244.4	241.1	241.1	241.1
95°	180.0	196.5	208.1	216.3	221.3	224.6	226.2	226.2	224.6	224.6	224.6
97.5°	165.1	180.0	191.5	199.8	204.7	206.4	208.1	209.7	208.1	208.1	208.1
100°	150.3	165.1	176.7	183.3	189.9	191.5	193.2	194.8	194.8	193.2	193.2
102.5°	137.1	151.9	161.8	170.1	175.0	178.3	180.0	180.0	180.0	180.0	180.0
105°	123.8	138.7	148.6	156.9	161.8	165.1	166.8	168.4	168.4	166.8	166.8
107.5°	112.3	125.5	137.1	143.7	150.3	153.6	155.2	155.2	156.9	155.2	155.2
110°	100.7	115.6	125.5	132.1	138.7	142.0	143.7	145.3	145.3	145.3	145.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-83SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	92.5	104.0	113.9	120.5	127.1	130.4	132.1	133.7	135.4	133.7	133.7
115°	82.6	94.1	104.0	110.6	115.6	118.9	122.2	123.8	123.8	125.5	123.8
117.5°	74.3	84.2	94.1	100.7	105.7	110.6	112.3	113.9	115.6	113.9	113.9
120°	66.0	76.0	84.2	90.8	95.8	100.7	102.4	104.0	105.7	104.0	104.0
122.5°	59.4	67.7	76.0	82.6	87.5	90.8	94.1	94.1	95.8	95.8	95.8
125°	52.8	61.1	67.7	74.3	79.3	82.6	84.2	85.9	85.9	87.5	87.5
127.5°	46.2	52.8	61.1	66.0	71.0	74.3	76.0	77.6	77.6	79.3	79.3
130°	39.6	46.2	52.8	57.8	62.7	66.0	67.7	69.4	71.0	71.0	71.0
132.5°	34.7	41.3	46.2	51.2	54.5	57.8	61.1	62.7	62.7	62.7	62.7
135°	28.1	34.7	39.6	44.6	47.9	51.2	52.8	56.1	56.1	56.1	56.1
137.5°	23.1	29.7	34.7	38.0	41.3	44.6	46.2	47.9	49.5	49.5	49.5
140°	18.2	23.1	28.1	33.0	36.3	38.0	41.3	41.3	42.9	42.9	42.9
142.5°	13.2	18.2	21.5	26.4	29.7	33.0	34.7	36.3	36.3	36.3	36.3
145°	9.9	13.2	16.5	19.8	24.8	26.4	28.1	29.7	31.4	31.4	31.4
147.5°	6.6	9.9	11.6	14.9	18.2	21.5	23.1	24.8	26.4	26.4	26.4
150°	5.0	6.6	9.9	11.6	13.2	16.5	19.8	19.8	21.5	21.5	19.8
152.5°	3.3	5.0	6.6	8.3	9.9	11.6	14.9	14.9	16.5	16.5	16.5
155°	3.3	3.3	3.3	5.0	6.6	8.3	9.9	11.6	11.6	11.6	11.6
157.5°	3.3	3.3	3.3	3.3	3.3	5.0	6.6	8.3	8.3	8.3	8.3
160°	3.3	3.3	1.7	1.7	3.3	3.3	3.3	3.3	5.0	5.0	5.0
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-LD5-83SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3001.9	3001.9	3001.9	3001.9	3001.9	3001.9	3001.9	3001.9	3001.9	3001.9	3001.9
2.5°	2998.6	3001.9	3001.9	2998.6	2996.9	3003.5	2995.3	2963.9	2973.8	2977.1	2987.0
5°	2983.7	2987.0	2987.0	2987.0	2983.7	2990.3	2982.1	2950.7	2962.3	2967.2	2973.8
7.5°	2962.3	2963.9	2967.2	2965.6	2962.3	2972.2	2963.9	2932.5	2940.8	2949.1	2957.3
10°	2934.2	2934.2	2935.8	2939.1	2935.8	2944.1	2935.8	2907.8	2916.0	2921.0	2930.9
12.5°	2896.2	2899.5	2901.2	2899.5	2897.9	2904.5	2901.2	2874.7	2878.1	2888.0	2897.9
15°	2845.0	2845.0	2853.3	2850.0	2850.0	2856.6	2859.9	2830.2	2835.1	2850.0	2859.9
17.5°	2782.3	2783.9	2790.5	2793.8	2792.2	2803.7	2805.4	2782.3	2780.6	2798.8	2808.7
20°	2701.4	2704.7	2712.9	2719.5	2719.5	2732.7	2737.7	2722.8	2724.5	2744.3	2747.6
22.5°	2602.3	2602.3	2617.2	2627.1	2635.3	2643.6	2658.4	2645.2	2645.2	2671.7	2686.5
25°	2480.1	2491.7	2496.6	2516.4	2528.0	2551.1	2564.3	2566.0	2567.6	2592.4	2602.3
27.5°	2344.7	2348.0	2362.9	2386.0	2399.2	2420.7	2445.4	2450.4	2458.6	2491.7	2506.5
30°	2191.2	2201.1	2207.7	2240.7	2258.8	2286.9	2318.3	2329.9	2336.5	2381.0	2399.2
32.5°	2034.3	2037.6	2065.7	2083.8	2105.3	2135.0	2171.3	2192.8	2206.0	2252.2	2278.7
35°	1877.4	1884.0	1907.1	1930.3	1951.7	1981.4	2019.4	2049.1	2072.3	2113.5	2148.2
37.5°	1733.8	1750.3	1755.2	1778.3	1794.9	1824.6	1851.0	1893.9	1917.1	1960.0	2004.6
40°	1605.0	1609.9	1613.2	1636.3	1647.9	1676.0	1714.0	1742.0	1773.4	1804.8	1857.6
42.5°	1477.8	1481.1	1486.1	1499.3	1512.5	1532.3	1560.4	1588.5	1621.5	1667.7	1702.4
45°	1360.6	1363.9	1367.2	1375.5	1387.0	1405.2	1423.3	1443.2	1476.2	1515.8	1552.1
47.5°	1251.6	1258.2	1258.2	1259.9	1268.1	1283.0	1296.2	1321.0	1339.1	1360.6	1401.9
50°	1147.6	1152.5	1154.2	1154.2	1159.1	1169.1	1172.4	1188.9	1205.4	1225.2	1254.9
52.5°	1050.2	1050.2	1048.5	1055.1	1055.1	1061.7	1063.4	1073.3	1084.8	1106.3	1119.5
55°	957.7	957.7	962.7	959.4	959.4	962.7	961.0	962.7	972.6	985.8	997.3
57.5°	868.5	866.9	871.8	868.5	866.9	870.2	873.5	866.9	868.5	881.7	881.7
60°	779.4	781.0	786.0	782.7	782.7	782.7	779.4	776.1	772.8	781.0	784.3
62.5°	708.4	703.4	708.4	703.4	706.7	705.1	701.8	695.2	696.8	693.5	690.2
65°	634.1	634.1	635.7	630.8	634.1	634.1	629.1	627.5	617.6	614.2	606.0
67.5°	569.7	569.7	571.3	568.0	568.0	569.7	564.7	559.8	549.9	544.9	533.3
70°	513.5	513.5	513.5	511.9	511.9	511.9	508.6	502.0	492.1	483.8	468.9
72.5°	462.3	464.0	462.3	462.3	467.3	462.3	457.4	450.8	442.5	426.0	412.8
75°	421.1	422.7	421.1	421.1	421.1	419.4	417.8	407.8	397.9	384.7	364.9
77.5°	384.7	384.7	386.4	384.7	384.7	383.1	378.1	369.9	358.3	346.8	323.6
80°	350.1	351.7	353.4	355.0	351.7	350.1	345.1	338.5	323.6	310.4	287.3
82.5°	325.3	323.6	325.3	326.9	323.6	322.0	317.0	308.8	297.2	279.1	255.9
85°	300.5	298.9	298.9	300.5	298.9	295.6	290.6	282.4	270.8	252.6	229.5
87.5°	275.8	277.4	279.1	277.4	275.8	272.4	267.5	259.2	246.0	231.2	206.4
90°	257.6	257.6	257.6	257.6	255.9	252.6	247.7	237.8	226.2	208.1	186.6
92.5°	241.1	241.1	241.1	241.1	239.4	234.5	229.5	221.3	208.1	189.9	170.1
95°	224.6	226.2	224.6	224.6	221.3	219.6	211.4	203.1	191.5	173.4	151.9
97.5°	206.4	208.1	206.4	206.4	204.7	201.4	196.5	186.6	175.0	158.5	138.7
100°	193.2	193.2	191.5	191.5	189.9	186.6	180.0	171.7	160.2	143.7	123.8
102.5°	178.3	180.0	178.3	178.3	175.0	171.7	166.8	158.5	147.0	130.4	112.3
105°	166.8	166.8	165.1	165.1	161.8	158.5	153.6	143.7	133.7	118.9	100.7
107.5°	155.2	155.2	153.6	153.6	150.3	147.0	140.4	132.1	122.2	107.3	90.8
110°	143.7	143.7	143.7	142.0	138.7	133.7	128.8	120.5	110.6	97.4	80.9



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-83SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	135.4	133.7	132.1	130.4	127.1	123.8	117.2	109.0	99.1	87.5	72.7
115°	123.8	123.8	122.2	120.5	117.2	112.3	107.3	100.7	90.8	77.6	64.4
117.5°	113.9	113.9	112.3	110.6	107.3	102.4	97.4	90.8	80.9	69.4	57.8
120°	104.0	104.0	102.4	100.7	97.4	92.5	89.2	80.9	72.7	61.1	51.2
122.5°	95.8	94.1	94.1	90.8	89.2	84.2	79.3	72.7	64.4	54.5	44.6
125°	85.9	85.9	84.2	82.6	80.9	76.0	71.0	64.4	56.1	47.9	39.6
127.5°	77.6	77.6	76.0	74.3	72.7	67.7	62.7	57.8	49.5	41.3	33.0
130°	69.4	69.4	67.7	66.0	64.4	59.4	56.1	49.5	42.9	36.3	28.1
132.5°	62.7	62.7	61.1	59.4	56.1	52.8	49.5	42.9	38.0	31.4	24.8
135°	56.1	54.5	54.5	52.8	49.5	46.2	42.9	38.0	31.4	26.4	19.8
137.5°	49.5	47.9	46.2	44.6	42.9	39.6	36.3	33.0	28.1	21.5	16.5
140°	42.9	41.3	41.3	39.6	36.3	34.7	31.4	26.4	23.1	18.2	13.2
142.5°	36.3	36.3	34.7	33.0	31.4	29.7	26.4	23.1	18.2	14.9	9.9
145°	31.4	29.7	29.7	28.1	26.4	23.1	21.5	18.2	14.9	11.6	8.3
147.5°	24.8	24.8	24.8	23.1	21.5	19.8	18.2	14.9	11.6	8.3	5.0
150°	19.8	19.8	19.8	18.2	16.5	14.9	13.2	11.6	8.3	5.0	3.3
152.5°	16.5	16.5	14.9	14.9	13.2	11.6	9.9	8.3	5.0	3.3	3.3
155°	11.6	11.6	11.6	9.9	9.9	8.3	6.6	5.0	3.3	3.3	3.3
157.5°	8.3	8.3	8.3	6.6	6.6	5.0	5.0	3.3	3.3	3.3	3.3
160°	5.0	5.0	5.0	5.0	3.3	3.3	3.3	3.3	3.3	3.3	3.3
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-LD5-83SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3001.9	3001.9	3001.9	3001.9	3001.9	3001.9	3001.9
2.5°	2982.1	2980.4	2993.6	2993.6	2978.8	3001.9	3026.7
5°	2972.2	2970.5	2983.7	2983.7	2970.5	2993.6	3020.1
7.5°	2952.4	2954.0	2967.2	2970.5	2954.0	2975.5	3003.5
10°	2930.9	2929.2	2944.1	2947.4	2934.2	2954.0	2980.4
12.5°	2896.2	2896.2	2911.1	2916.0	2902.8	2925.9	2950.7
15°	2859.9	2859.9	2869.8	2878.1	2866.5	2888.0	2912.7
17.5°	2813.7	2812.0	2821.9	2831.8	2820.3	2843.4	2869.8
20°	2754.2	2754.2	2765.8	2777.3	2769.1	2790.5	2820.3
22.5°	2691.5	2684.9	2704.7	2712.9	2708.0	2729.4	2759.2
25°	2612.2	2610.6	2630.4	2641.9	2635.3	2658.4	2684.9
27.5°	2526.3	2524.7	2544.5	2559.4	2556.1	2577.5	2607.3
30°	2422.3	2430.6	2448.7	2473.5	2465.3	2488.4	2519.7
32.5°	2313.3	2321.6	2343.1	2369.5	2371.1	2389.3	2420.7
35°	2182.9	2204.4	2219.2	2253.9	2260.5	2278.7	2311.7
37.5°	2045.8	2070.6	2102.0	2128.4	2141.6	2156.5	2194.5
40°	1892.3	1928.6	1963.3	1994.7	2011.2	2026.0	2062.4
42.5°	1753.6	1781.7	1814.7	1846.0	1875.8	1889.0	1927.0
45°	1596.7	1629.7	1659.5	1697.4	1727.2	1742.0	1780.0
47.5°	1443.2	1476.2	1515.8	1542.2	1573.6	1588.5	1624.8
50°	1296.2	1325.9	1358.9	1390.3	1416.7	1429.9	1461.3
52.5°	1150.9	1182.3	1213.6	1233.5	1261.5	1271.4	1297.8
55°	1022.1	1043.6	1071.6	1083.2	1111.3	1117.9	1136.0
57.5°	898.3	913.1	923.0	942.8	962.7	977.5	999.0
60°	786.0	792.6	799.2	810.7	827.3	832.2	840.5
62.5°	685.3	683.6	696.8	700.1	701.8	718.3	710.0
65°	596.1	597.7	586.2	581.2	587.8	592.8	589.5
67.5°	521.8	511.9	502.0	490.4	480.5	485.5	480.5
70°	449.1	440.9	424.4	407.8	401.2	391.3	386.4
72.5°	391.3	371.5	355.0	333.5	322.0	310.4	302.2
75°	346.8	318.7	295.6	272.4	255.9	239.4	236.1
77.5°	300.5	274.1	247.7	222.9	198.1	180.0	173.4
80°	264.2	239.4	208.1	178.3	151.9	128.8	120.5
82.5°	231.2	204.7	173.4	142.0	112.3	87.5	77.6
85°	203.1	175.0	143.7	112.3	82.6	56.1	42.9
87.5°	181.6	150.3	118.9	89.2	57.8	31.4	16.5
90°	161.8	132.1	102.4	71.0	41.3	16.5	0.0
92.5°	143.7	115.6	85.9	57.8	31.4	9.9	1.7
95°	127.1	102.4	72.7	46.2	23.1	6.6	1.7
97.5°	113.9	89.2	62.7	38.0	18.2	5.0	1.7
100°	102.4	77.6	54.5	31.4	14.9	3.3	1.7
102.5°	90.8	69.4	46.2	26.4	11.6	1.7	1.7
105°	80.9	61.1	39.6	23.1	9.9	1.7	1.7
107.5°	72.7	54.5	34.7	19.8	6.6	1.7	1.7
110°	64.4	46.2	29.7	16.5	5.0	1.7	1.7



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-83SL-LN-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	57.8	41.3	26.4	13.2	3.3	1.7	1.7
115°	51.2	36.3	23.1	11.6	3.3	1.7	1.7
117.5°	44.6	31.4	19.8	8.3	1.7	1.7	1.7
120°	39.6	28.1	16.5	6.6	1.7	1.7	1.7
122.5°	34.7	23.1	13.2	5.0	1.7	1.7	1.7
125°	29.7	19.8	11.6	3.3	1.7	1.7	1.7
127.5°	24.8	16.5	8.3	3.3	1.7	1.7	1.7
130°	21.5	13.2	6.6	1.7	1.7	1.7	1.7
132.5°	18.2	9.9	5.0	1.7	1.7	1.7	1.7
135°	14.9	8.3	3.3	1.7	1.7	1.7	1.7
137.5°	11.6	6.6	3.3	1.7	1.7	1.7	1.7
140°	8.3	5.0	1.7	1.7	1.7	1.7	1.7
142.5°	6.6	3.3	1.7	1.7	1.7	1.7	1.7
145°	5.0	3.3	1.7	1.7	1.7	1.7	1.7
147.5°	3.3	3.3	3.3	3.3	1.7	1.7	1.7
150°	3.3	3.3	1.7	1.7	3.3	1.7	1.7
152.5°	3.3	1.7	1.7	1.7	3.3	1.7	1.7
155°	3.3	3.3	3.3	3.3	3.3	3.3	1.7
157.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3
160°	3.3	3.3	3.3	3.3	3.3	3.3	3.3
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)