

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-LC-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33518)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNLED-LD5-83SL-LC-UNV-L940-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
CLEAR LENSED
Light Source: -
Ballast/Driver: -

Summary

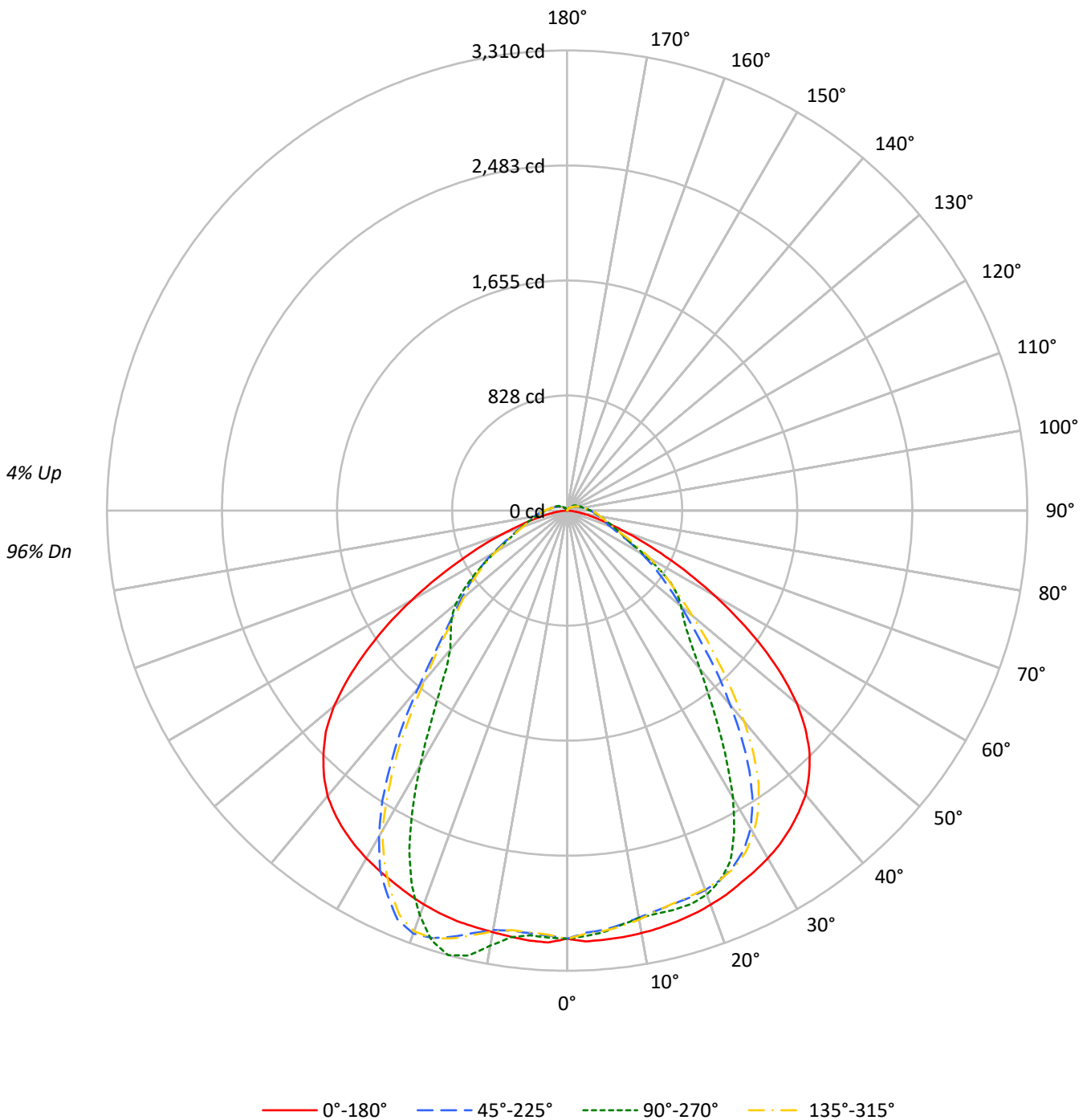
Lumens per Lamp: N/A
Luminaire Lumens: 7341.0 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 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-LC-UNV-L940-CD1-U

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96				
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	84	82				
2	100	93	86	81	97	90	85	80	86	82	77	82	79	75	79	76	73	71				
3	92	83	75	69	89	81	74	68	77	71	67	74	69	65	71	67	63	61				
4	85	74	66	60	83	73	65	59	70	63	58	67	61	57	64	60	56	54				
5	79	67	59	52	76	66	58	52	63	56	51	61	55	50	59	53	49	47				
6	73	61	52	46	71	60	52	46	57	51	45	55	49	45	54	48	44	42				
7	68	55	47	42	66	54	47	41	53	46	41	51	45	40	49	44	40	38				
8	64	51	43	37	62	50	42	37	48	42	37	47	41	36	45	40	36	34				
9	60	47	39	34	58	46	39	34	45	38	33	43	37	33	42	37	33	31				
10	56	43	36	31	54	43	36	31	42	35	30	40	34	30	39	34	30	28				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12442	12442	12442	12442
5°	12550	11949	12576	12042
10°	12625	11452	12600	12229
15°	12741	11299	12735	12581
20°	12900	11120	12887	11722
25°	13080	10549	13073	10193
30°	13349	9143	13356	8100
35°	13635	7393	13674	6256
40°	13895	5952	13953	5245
45°	13880	5042	13951	4910
50°	13319	4642	13506	4538
55°	11859	4172	12155	3793
60°	9661	3193	10174	2929
65°	7225	2443	7784	2317
70°	4955	2109	5586	2016
75°	3285	1903	3825	1800
80°	2176	1774	2550	1632
85°	1188	1770	1566	1617



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.5	4.0
10°-20°	870.3	11.9
20°-30°	1323.1	18.0
30°-40°	1419.4	19.3
40°-50°	1231.9	16.8
50°-60°	912.9	12.4
60°-70°	523.1	7.1
70°-80°	289.7	3.9
80°-90°	176.4	2.4
90°-100°	114.7	1.6
100°-110°	76.8	1.0
110°-120°	51.9	0.7
120°-130°	31.8	0.4
130°-140°	16.7	0.2
140°-150°	7.6	0.1
150°-160°	2.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2485.9	33.9
0°-40°	3905.3	53.2
0°-60°	6050.1	82.4
0°-90°	7039.2	95.9
90°-120°	243.4	3.3
90°-150°	299.6	4.1
90°-180°	302.0	4.1
0°-180°	7341.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3079	3079	3079	3079	3079	
5°	3098	3043	3105	3067	3098	295
15°	3059	2973	3057	3310	3059	865
25°	2955	2780	2954	2686	2955	1366
35°	2795	1893	2803	1602	2795	1749
45°	2467	1214	2480	1182	2467	1889
55°	1721	910	1764	827	1721	1526
65°	781	461	841	437	781	787
75°	223	293	259	277	223	254
85°	30	202	40	184	30	40
90°	0	169	3	156	0	1
95°	2	138	0	132	2	1
105°	2	103	2	99	2	2
115°	2	84	2	76	2	2
125°	2	64	2	52	2	1
135°	2	40	2	33	2	1
145°	2	24	3	19	2	1
155°	3	11	3	10	3	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°	3079.4	3079.4	3079.4	3079.4	3079.4	3079.4	3079.4	3079.4	3079.4	3079.4	3079.4
2.5°	3101.6	3093.7	3090.5	3084.1	3088.9	3108.0	3095.3	3074.6	3076.2	3039.6	3058.7
5°	3098.5	3088.9	3084.1	3077.8	3081.0	3098.5	3085.7	3065.0	3063.5	3026.9	3044.4
7.5°	3093.7	3084.1	3076.2	3071.4	3073.0	3087.3	3071.4	3047.6	3042.8	3003.0	3018.9
10°	3085.7	3079.4	3068.2	3060.3	3058.7	3074.6	3049.1	3025.3	3014.1	2972.8	2988.7
12.5°	3074.6	3065.0	3053.9	3039.6	3038.0	3047.6	3026.9	2993.5	2982.3	2948.9	2966.4
15°	3058.7	3047.6	3034.8	3018.9	3011.0	3017.3	2991.9	2961.7	2960.1	2931.4	2955.3
17.5°	3041.2	3025.3	3011.0	2988.7	2977.6	2982.3	2961.7	2934.6	2937.8	2920.3	2947.3
20°	3017.3	2999.8	2977.6	2955.3	2939.4	2947.3	2933.0	2912.4	2917.1	2904.4	2928.3
22.5°	2990.3	2966.4	2939.4	2913.9	2901.2	2912.4	2901.2	2883.7	2885.3	2877.4	2891.7
25°	2955.3	2928.3	2896.4	2864.6	2858.3	2866.2	2859.9	2845.5	2839.2	2826.5	2832.8
27.5°	2923.5	2893.3	2853.5	2820.1	2809.0	2824.9	2810.6	2786.7	2769.2	2751.7	2739.0
30°	2886.9	2850.3	2805.8	2767.6	2758.1	2764.4	2743.8	2707.2	2661.0	2638.8	2603.8
32.5°	2847.1	2799.4	2743.8	2700.8	2694.4	2689.7	2651.5	2599.0	2527.4	2482.9	2428.8
35°	2794.6	2742.2	2675.4	2622.9	2613.3	2586.3	2524.3	2454.3	2362.0	2285.7	2193.4
37.5°	2735.8	2673.8	2603.8	2533.8	2506.8	2452.7	2365.2	2292.0	2152.1	2059.8	1948.5
40°	2669.0	2594.2	2508.3	2424.0	2379.5	2292.0	2191.8	2083.7	1948.5	1824.4	1730.6
42.5°	2576.7	2497.2	2395.4	2301.6	2225.2	2109.1	1991.4	1838.7	1714.6	1609.7	1514.2
45°	2467.0	2371.6	2253.9	2140.9	2043.9	1905.5	1767.1	1614.4	1511.1	1388.6	1323.4
47.5°	2325.4	2222.0	2096.4	1970.7	1843.5	1690.8	1546.0	1399.7	1296.3	1208.8	1161.1
50°	2158.4	2063.0	1924.6	1775.1	1635.1	1476.1	1331.3	1221.6	1121.4	1067.3	1030.7
52.5°	1951.6	1862.6	1721.0	1558.8	1423.6	1267.7	1135.7	1046.6	975.0	935.3	922.5
55°	1721.0	1643.1	1503.1	1352.0	1213.6	1070.5	970.3	892.3	846.2	822.3	823.9
57.5°	1474.5	1414.0	1282.0	1146.8	1016.4	908.2	817.6	755.5	720.5	718.9	723.7
60°	1227.9	1183.4	1068.9	952.8	838.2	750.8	683.9	641.0	618.7	620.3	618.7
62.5°	992.5	951.2	868.5	773.0	682.4	623.5	563.1	545.6	526.5	524.9	524.9
65°	781.0	749.2	682.4	614.0	545.6	507.4	477.2	456.5	442.2	439.0	440.6
67.5°	586.9	574.2	528.1	481.9	439.0	415.1	389.7	384.9	373.8	373.8	377.0
70°	437.4	427.9	402.4	375.4	357.9	342.0	329.3	329.3	327.7	326.1	334.0
72.5°	316.5	318.1	310.2	289.5	287.9	284.7	281.5	286.3	287.9	292.7	302.2
75°	222.7	227.5	227.5	224.3	230.6	238.6	243.4	251.3	260.9	267.2	278.4
77.5°	157.5	157.5	165.4	175.0	187.7	202.0	214.7	225.9	238.6	246.5	256.1
80°	101.8	106.6	119.3	136.8	154.3	173.4	190.9	205.2	217.9	230.6	237.0
82.5°	60.4	68.4	84.3	106.6	128.8	152.7	170.2	187.7	202.0	214.7	219.5
85°	30.2	41.4	60.4	84.3	108.2	133.6	155.9	171.8	187.7	198.8	205.2
87.5°	9.5	22.3	42.9	65.2	90.7	116.1	140.0	157.5	171.8	181.3	187.7
90°	0.0	11.1	30.2	54.1	77.9	103.4	125.7	144.7	159.1	167.0	171.8
92.5°	0.0	6.4	23.9	44.5	66.8	92.3	114.5	132.0	144.7	152.7	155.9
95°	1.6	4.8	17.5	36.6	58.9	82.7	103.4	119.3	132.0	140.0	141.6
97.5°	1.6	3.2	14.3	30.2	50.9	73.2	93.8	109.8	119.3	127.2	128.8
100°	1.6	3.2	11.1	27.0	44.5	65.2	84.3	98.6	109.8	116.1	117.7
102.5°	1.6	1.6	9.5	22.3	39.8	57.3	74.8	89.1	98.6	105.0	108.2
105°	1.6	1.6	8.0	19.1	35.0	50.9	66.8	81.1	89.1	95.4	98.6
107.5°	1.6	1.6	6.4	15.9	30.2	44.5	60.4	71.6	81.1	87.5	90.7
110°	1.6	1.6	4.8	14.3	25.4	39.8	52.5	63.6	73.2	79.5	82.7



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-83SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.6	1.6	4.8	12.7	22.3	35.0	46.1	57.3	65.2	71.6	76.3
115°	1.6	1.6	4.8	11.1	20.7	30.2	41.4	50.9	58.9	65.2	70.0
117.5°	1.6	1.6	4.8	9.5	17.5	27.0	36.6	46.1	52.5	58.9	63.6
120°	1.6	1.6	3.2	8.0	15.9	23.9	31.8	39.8	47.7	54.1	58.9
122.5°	1.6	1.6	3.2	8.0	12.7	20.7	28.6	35.0	42.9	47.7	52.5
125°	1.6	1.6	3.2	6.4	11.1	19.1	25.4	31.8	36.6	42.9	47.7
127.5°	1.6	1.6	3.2	6.4	9.5	15.9	22.3	28.6	33.4	38.2	41.4
130°	1.6	1.6	3.2	4.8	8.0	12.7	19.1	23.9	30.2	33.4	36.6
132.5°	1.6	1.6	1.6	4.8	6.4	9.5	14.3	20.7	25.4	30.2	31.8
135°	1.6	1.6	1.6	3.2	6.4	8.0	11.1	15.9	20.7	25.4	28.6
137.5°	1.6	1.6	1.6	3.2	4.8	8.0	9.5	12.7	17.5	20.7	25.4
140°	1.6	1.6	1.6	3.2	4.8	6.4	8.0	11.1	14.3	17.5	20.7
142.5°	1.6	1.6	1.6	3.2	3.2	4.8	6.4	9.5	11.1	14.3	17.5
145°	1.6	1.6	1.6	3.2	3.2	4.8	6.4	8.0	9.5	11.1	14.3
147.5°	1.6	1.6	1.6	3.2	3.2	3.2	4.8	6.4	8.0	9.5	11.1
150°	3.2	3.2	3.2	3.2	3.2	3.2	4.8	4.8	6.4	8.0	9.5
152.5°	3.2	3.2	3.2	3.2	3.2	3.2	4.8	4.8	4.8	6.4	8.0
155°	3.2	3.2	3.2	3.2	3.2	3.2	4.8	4.8	4.8	6.4	6.4
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3079.4	3079.4	3079.4	3079.4	3079.4	3079.4	3079.4	3079.4	3079.4	3079.4	3079.4
2.5°	3052.3	3055.5	3074.6	3073.0	3069.8	3066.6	3066.6	3063.5	3066.6	3074.6	3071.4
5°	3036.4	3041.2	3055.5	3053.9	3050.7	3049.1	3047.6	3042.8	3046.0	3057.1	3053.9
7.5°	3007.8	3012.6	3025.3	3018.9	3014.1	3017.3	3009.4	3004.6	3011.0	3022.1	3020.5
10°	2977.6	2980.7	2996.7	2993.5	2985.5	2987.1	2979.2	2976.0	2983.9	2990.3	2991.9
12.5°	2956.9	2968.0	2982.3	2980.7	2979.2	2980.7	2972.8	2969.6	2974.4	2980.7	2979.2
15°	2952.1	2966.4	2982.3	2982.3	2983.9	2985.5	2977.6	2972.8	2977.6	2982.3	2980.7
17.5°	2947.3	2964.8	2979.2	2977.6	2979.2	2982.3	2969.6	2966.4	2972.8	2979.2	2976.0
20°	2931.4	2947.3	2956.9	2953.7	2953.7	2955.3	2939.4	2939.4	2948.9	2953.7	2955.3
22.5°	2886.9	2906.0	2906.0	2898.0	2898.0	2891.7	2886.9	2877.4	2888.5	2896.4	2902.8
25°	2820.1	2828.1	2818.5	2801.0	2791.5	2783.5	2761.2	2780.3	2780.3	2804.2	2812.1
27.5°	2726.3	2708.8	2681.7	2645.1	2637.2	2611.7	2597.4	2602.2	2610.1	2643.5	2669.0
30°	2572.0	2519.5	2473.4	2457.4	2422.5	2397.0	2371.6	2384.3	2398.6	2417.7	2470.2
32.5°	2368.4	2317.5	2242.7	2215.7	2179.1	2147.3	2117.1	2136.1	2161.6	2174.3	2231.6
35°	2134.6	2074.1	2005.7	1959.6	1921.4	1903.9	1865.8	1892.8	1919.8	1929.4	1978.7
37.5°	1886.4	1824.4	1764.0	1724.2	1687.6	1676.5	1651.0	1670.1	1690.8	1705.1	1746.5
40°	1651.0	1593.8	1547.6	1520.6	1495.1	1485.6	1476.1	1484.0	1499.9	1511.1	1542.9
42.5°	1449.0	1402.9	1371.1	1355.2	1337.7	1325.0	1326.5	1329.7	1337.7	1361.5	1375.9
45°	1272.5	1245.4	1224.7	1221.6	1210.4	1208.8	1207.3	1213.6	1218.4	1232.7	1243.8
47.5°	1130.9	1119.8	1115.0	1121.4	1126.1	1119.8	1122.9	1130.9	1140.4	1140.4	1138.9
50°	1019.6	1022.7	1029.1	1043.4	1053.0	1056.1	1059.3	1068.9	1070.5	1073.6	1068.9
52.5°	928.9	932.1	949.6	971.8	983.0	987.8	994.1	1003.7	1003.7	1006.8	1000.5
55°	836.6	841.4	858.9	881.2	890.7	897.1	903.4	909.8	914.6	920.9	916.2
57.5°	734.8	749.2	760.3	766.7	773.0	777.8	782.6	784.2	793.7	795.3	803.2
60°	626.7	629.9	641.0	639.4	634.6	647.4	641.0	652.1	663.3	677.6	679.2
62.5°	523.3	524.9	532.8	529.7	536.0	534.4	539.2	539.2	547.2	553.5	561.5
65°	442.2	443.8	450.1	450.1	448.5	453.3	458.1	461.3	461.3	466.0	472.4
67.5°	381.7	386.5	392.9	396.1	399.2	399.2	404.0	405.6	408.8	410.4	413.6
70°	340.4	346.7	353.1	356.3	357.9	361.1	362.7	362.7	365.8	367.4	370.6
72.5°	310.2	316.5	321.3	321.3	324.5	326.1	326.1	327.7	329.3	332.4	335.6
75°	284.7	289.5	292.7	291.1	291.1	291.1	292.7	292.7	295.8	299.0	302.2
77.5°	260.9	265.6	265.6	262.4	262.4	262.4	262.4	264.0	265.6	268.8	272.0
80°	243.4	243.4	241.8	241.8	238.6	237.0	237.0	238.6	238.6	241.8	246.5
82.5°	224.3	224.3	222.7	221.1	219.5	217.9	217.9	219.5	221.1	222.7	225.9
85°	206.8	206.8	203.6	203.6	202.0	202.0	202.0	202.0	203.6	205.2	208.4
87.5°	189.3	187.7	186.1	184.5	184.5	184.5	184.5	184.5	186.1	189.3	190.9
90°	171.8	170.2	168.6	168.6	167.0	167.0	168.6	168.6	170.2	171.8	173.4
92.5°	155.9	154.3	152.7	152.7	151.1	151.1	152.7	151.1	154.3	154.3	155.9
95°	141.6	140.0	138.4	138.4	138.4	138.4	138.4	138.4	140.0	140.0	141.6
97.5°	128.8	127.2	125.7	125.7	127.2	125.7	127.2	127.2	127.2	128.8	130.4
100°	117.7	116.1	116.1	117.7	116.1	116.1	117.7	117.7	117.7	117.7	119.3
102.5°	108.2	108.2	108.2	108.2	108.2	108.2	109.8	109.8	109.8	109.8	111.3
105°	98.6	100.2	100.2	100.2	101.8	101.8	101.8	103.4	103.4	103.4	103.4
107.5°	92.3	93.8	93.8	95.4	95.4	97.0	97.0	97.0	97.0	98.6	98.6
110°	85.9	87.5	89.1	90.7	90.7	92.3	92.3	92.3	92.3	92.3	92.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-83SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	79.5	81.1	82.7	85.9	87.5	87.5	87.5	87.5	89.1	89.1	87.5
115°	73.2	76.3	77.9	81.1	82.7	82.7	84.3	84.3	84.3	84.3	82.7
117.5°	66.8	71.6	73.2	76.3	77.9	77.9	79.5	79.5	79.5	79.5	77.9
120°	62.0	65.2	68.4	70.0	71.6	73.2	73.2	74.8	74.8	74.8	73.2
122.5°	57.3	60.4	63.6	65.2	66.8	68.4	68.4	68.4	68.4	68.4	68.4
125°	50.9	54.1	57.3	58.9	60.4	62.0	62.0	63.6	63.6	63.6	62.0
127.5°	46.1	49.3	50.9	54.1	55.7	55.7	57.3	57.3	57.3	57.3	55.7
130°	39.8	42.9	46.1	47.7	49.3	49.3	50.9	50.9	50.9	50.9	50.9
132.5°	35.0	38.2	39.8	42.9	42.9	44.5	44.5	46.1	46.1	46.1	44.5
135°	31.8	33.4	35.0	38.2	38.2	39.8	39.8	39.8	39.8	39.8	39.8
137.5°	28.6	30.2	31.8	33.4	33.4	35.0	35.0	35.0	35.0	36.6	35.0
140°	23.9	27.0	28.6	28.6	30.2	30.2	30.2	31.8	31.8	31.8	30.2
142.5°	20.7	22.3	23.9	25.4	27.0	27.0	27.0	28.6	28.6	27.0	27.0
145°	15.9	19.1	20.7	22.3	23.9	23.9	23.9	23.9	23.9	23.9	23.9
147.5°	12.7	14.3	17.5	19.1	19.1	20.7	20.7	20.7	20.7	20.7	20.7
150°	11.1	11.1	14.3	15.9	17.5	17.5	17.5	17.5	17.5	17.5	17.5
152.5°	8.0	9.5	11.1	12.7	14.3	14.3	14.3	14.3	14.3	14.3	14.3
155°	8.0	8.0	9.5	9.5	11.1	11.1	11.1	11.1	12.7	11.1	11.1
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-LD5-83SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3079.4	3079.4	3079.4	3079.4	3079.4	3079.4	3079.4	3079.4	3079.4	3079.4	3079.4
2.5°	3066.6	3065.0	3071.4	3065.0	3033.2	3046.0	3041.2	3058.7	3060.3	3065.0	3081.0
5°	3050.7	3050.7	3058.7	3052.3	3022.1	3034.8	3033.2	3050.7	3053.9	3057.1	3074.6
7.5°	3018.9	3020.5	3031.6	3026.9	2995.1	3014.1	3012.6	3033.2	3039.6	3046.0	3061.9
10°	2988.7	2987.1	2999.8	2995.1	2964.8	2987.1	2985.5	3006.2	3015.7	3026.9	3046.0
12.5°	2972.8	2968.0	2972.8	2968.0	2934.6	2952.1	2953.7	2977.6	2988.7	3003.0	3025.3
15°	2972.8	2964.8	2964.8	2955.3	2917.1	2928.3	2929.8	2945.8	2960.1	2974.4	3001.4
17.5°	2969.6	2961.7	2960.1	2952.1	2910.8	2910.8	2909.2	2920.3	2928.3	2942.6	2971.2
20°	2952.1	2948.9	2947.3	2942.6	2904.4	2898.0	2894.9	2894.9	2899.6	2904.4	2933.0
22.5°	2906.0	2909.2	2912.4	2915.5	2885.3	2874.2	2875.8	2872.6	2867.8	2867.8	2891.7
25°	2820.1	2836.0	2848.7	2863.0	2845.5	2837.6	2847.1	2842.4	2834.4	2828.1	2848.7
27.5°	2683.3	2716.7	2743.8	2778.7	2780.3	2774.0	2799.4	2796.2	2794.6	2785.1	2801.0
30°	2494.0	2546.5	2583.1	2634.0	2676.9	2683.3	2726.3	2732.6	2739.0	2734.2	2750.1
32.5°	2265.0	2336.6	2398.6	2478.1	2519.5	2556.1	2616.5	2642.0	2667.4	2675.4	2692.9
35°	2015.3	2096.4	2169.6	2257.0	2322.2	2401.8	2474.9	2513.1	2570.4	2592.6	2618.1
37.5°	1778.3	1854.6	1926.2	2013.7	2118.7	2201.4	2292.0	2377.9	2455.9	2487.7	2525.8
40°	1568.3	1630.3	1698.7	1775.1	1870.5	1978.7	2077.3	2196.6	2288.8	2352.5	2408.1
42.5°	1409.3	1439.5	1498.3	1566.7	1643.1	1752.8	1853.0	1986.6	2098.0	2188.6	2280.9
45°	1267.7	1282.0	1325.0	1361.5	1439.5	1536.5	1643.1	1773.5	1889.6	2005.7	2117.1
47.5°	1146.8	1164.3	1185.0	1207.3	1262.9	1344.0	1436.3	1554.0	1670.1	1805.3	1932.6
50°	1065.7	1070.5	1073.6	1083.2	1116.6	1172.3	1247.0	1347.2	1458.6	1603.3	1738.5
52.5°	994.1	994.1	984.6	979.8	992.5	1027.5	1070.5	1142.0	1256.6	1390.2	1533.3
55°	917.8	903.4	900.3	884.4	887.5	903.4	924.1	979.8	1073.6	1188.2	1326.5
57.5°	811.2	804.8	804.8	798.5	785.7	793.7	798.5	838.2	905.0	1003.7	1124.5
60°	688.7	685.5	693.5	695.1	683.9	688.7	687.1	711.0	758.7	838.2	938.4
62.5°	566.2	580.6	582.2	588.5	582.2	580.6	588.5	609.2	633.1	693.5	771.4
65°	475.6	483.5	485.1	493.1	489.9	489.9	496.3	512.2	526.5	567.8	628.3
67.5°	416.7	413.6	415.1	419.9	415.1	413.6	418.3	427.9	439.0	464.4	507.4
70°	370.6	367.4	367.4	367.4	361.1	356.3	357.9	361.1	365.8	380.1	407.2
72.5°	335.6	335.6	330.8	326.1	321.3	318.1	314.9	311.8	310.2	314.9	329.3
75°	303.8	305.4	303.8	299.0	292.7	286.3	279.9	273.6	265.6	262.4	264.0
77.5°	275.2	276.8	278.4	276.8	270.4	262.4	252.9	243.4	232.2	221.1	214.7
80°	249.7	252.9	254.5	252.9	248.1	241.8	230.6	219.5	203.6	189.3	173.4
82.5°	227.5	232.2	233.8	233.8	230.6	224.3	211.5	198.8	181.3	162.2	141.6
85°	210.0	213.1	216.3	216.3	214.7	208.4	195.6	181.3	163.8	141.6	119.3
87.5°	192.5	194.1	197.2	200.4	197.2	190.9	179.7	163.8	146.3	124.1	98.6
90°	175.0	176.6	179.7	182.9	181.3	175.0	165.4	151.1	132.0	108.2	82.7
92.5°	157.5	160.6	162.2	163.8	165.4	160.6	152.7	138.4	119.3	95.4	71.6
95°	144.7	144.7	147.9	149.5	151.1	146.3	140.0	125.7	108.2	85.9	62.0
97.5°	132.0	132.0	135.2	135.2	136.8	133.6	127.2	114.5	97.0	76.3	52.5
100°	119.3	120.9	122.5	124.1	124.1	122.5	116.1	103.4	87.5	68.4	46.1
102.5°	111.3	111.3	112.9	112.9	114.5	111.3	105.0	93.8	77.9	60.4	39.8
105°	103.4	103.4	105.0	105.0	103.4	100.2	93.8	84.3	70.0	52.5	35.0
107.5°	97.0	97.0	97.0	97.0	95.4	92.3	85.9	74.8	62.0	47.7	31.8
110°	92.3	90.7	90.7	89.1	87.5	82.7	76.3	66.8	55.7	41.4	27.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-83SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	87.5	85.9	84.3	82.7	79.5	74.8	68.4	60.4	49.3	36.6	23.9
115°	82.7	81.1	79.5	76.3	73.2	68.4	62.0	54.1	42.9	31.8	20.7
117.5°	77.9	76.3	73.2	70.0	66.8	62.0	55.7	47.7	38.2	28.6	19.1
120°	71.6	70.0	68.4	65.2	62.0	55.7	49.3	42.9	33.4	25.4	15.9
122.5°	66.8	65.2	62.0	60.4	55.7	50.9	44.5	38.2	30.2	22.3	14.3
125°	60.4	58.9	57.3	54.1	50.9	44.5	39.8	33.4	27.0	19.1	11.1
127.5°	55.7	54.1	50.9	47.7	44.5	39.8	35.0	30.2	23.9	15.9	11.1
130°	49.3	47.7	46.1	42.9	39.8	35.0	31.8	25.4	20.7	14.3	9.5
132.5°	42.9	42.9	41.4	38.2	35.0	31.8	27.0	22.3	17.5	12.7	8.0
135°	39.8	38.2	36.6	33.4	31.8	27.0	23.9	19.1	14.3	11.1	6.4
137.5°	35.0	33.4	31.8	30.2	27.0	23.9	20.7	15.9	12.7	9.5	6.4
140°	30.2	28.6	28.6	25.4	23.9	20.7	17.5	14.3	11.1	8.0	4.8
142.5°	27.0	25.4	23.9	22.3	20.7	17.5	14.3	11.1	9.5	6.4	4.8
145°	23.9	22.3	20.7	19.1	17.5	14.3	12.7	9.5	8.0	6.4	4.8
147.5°	19.1	19.1	17.5	15.9	14.3	12.7	11.1	9.5	6.4	4.8	3.2
150°	15.9	15.9	14.3	12.7	12.7	11.1	9.5	8.0	6.4	4.8	3.2
152.5°	14.3	12.7	12.7	11.1	11.1	9.5	8.0	6.4	4.8	4.8	3.2
155°	11.1	11.1	11.1	9.5	9.5	8.0	6.4	6.4	4.8	3.2	3.2
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-LD5-83SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3079.4	3079.4	3079.4	3079.4	3079.4	3079.4	3079.4	3079.4	3079.4	3079.4	3079.4
2.5°	3084.1	3065.0	3081.0	3109.6	3106.4	3103.2	3100.0	3106.4	3127.1	3115.9	3098.5
5°	3079.4	3060.3	3077.8	3104.8	3103.2	3098.5	3095.3	3101.6	3122.3	3111.2	3092.1
7.5°	3069.8	3052.3	3065.0	3092.1	3092.1	3088.9	3085.7	3092.1	3111.2	3101.6	3082.5
10°	3053.9	3041.2	3053.9	3079.4	3081.0	3074.6	3071.4	3079.4	3098.5	3093.7	3077.8
12.5°	3041.2	3028.5	3042.8	3068.2	3069.8	3063.5	3058.7	3068.2	3093.7	3096.9	3092.1
15°	3023.7	3012.6	3030.1	3057.1	3057.1	3052.3	3052.3	3065.0	3100.0	3114.4	3122.3
17.5°	2998.2	2990.3	3011.0	3038.0	3039.6	3036.4	3038.0	3063.5	3109.6	3144.6	3166.8
20°	2966.4	2963.3	2985.5	3014.1	3018.9	3020.5	3028.5	3066.6	3130.3	3178.0	3200.2
22.5°	2928.3	2929.8	2955.3	2985.5	2991.9	2996.7	3012.6	3066.6	3146.2	3197.1	3206.6
25°	2885.3	2890.1	2917.1	2953.7	2961.7	2971.2	2998.2	3068.2	3150.9	3184.3	3168.4
27.5°	2839.2	2848.7	2883.7	2921.9	2931.4	2947.3	2982.3	3058.7	3128.7	3130.3	3071.4
30°	2791.5	2802.6	2844.0	2888.5	2904.4	2920.3	2963.3	3036.4	3074.6	3023.7	2920.3
32.5°	2737.4	2753.3	2794.6	2848.7	2867.8	2888.5	2931.4	2993.5	2979.2	2869.4	2721.5
35°	2669.0	2691.3	2739.0	2802.6	2820.1	2847.1	2877.4	2891.7	2828.1	2672.2	2505.2
37.5°	2584.7	2618.1	2673.8	2746.9	2766.0	2783.5	2791.5	2751.7	2624.5	2455.9	2282.5
40°	2487.7	2538.6	2599.0	2680.1	2699.2	2699.2	2670.6	2586.3	2425.6	2204.5	2012.1
42.5°	2370.0	2432.0	2508.3	2589.5	2608.6	2586.3	2517.9	2370.0	2187.0	1940.5	1736.9
45°	2226.8	2309.5	2395.4	2479.7	2489.3	2440.0	2317.5	2129.8	1903.9	1674.9	1480.8
47.5°	2056.6	2164.8	2258.6	2354.1	2341.3	2258.6	2094.8	1881.7	1643.1	1426.8	1270.9
50°	1865.8	1993.0	2098.0	2188.6	2161.6	2047.1	1854.6	1631.9	1394.9	1210.4	1081.6
52.5°	1662.2	1808.5	1913.5	1986.6	1950.1	1813.3	1601.7	1388.6	1194.5	1025.9	940.0
55°	1450.6	1598.5	1706.7	1764.0	1716.2	1568.3	1359.9	1165.9	983.0	873.2	822.3
57.5°	1245.4	1383.8	1485.6	1531.7	1471.3	1323.4	1130.9	967.1	835.1	742.8	717.4
60°	1048.2	1161.1	1258.1	1293.1	1227.9	1091.1	925.7	795.3	698.3	634.6	621.9
62.5°	865.3	957.5	1033.9	1060.9	997.3	890.7	747.6	650.5	582.2	550.3	534.4
65°	714.2	768.3	846.2	841.4	803.2	704.6	599.6	531.3	486.7	466.0	456.5
67.5°	561.5	610.8	660.1	666.5	618.7	550.3	481.9	432.6	408.8	397.6	392.9
70°	434.2	470.8	501.0	493.1	467.6	424.7	381.7	354.7	345.2	340.4	340.4
72.5°	337.2	356.3	370.6	361.1	345.2	322.9	302.2	291.1	292.7	295.8	299.0
75°	260.9	265.6	268.8	259.3	256.1	241.8	240.2	241.8	251.3	260.9	265.6
77.5°	200.4	194.1	189.3	179.7	181.3	179.7	187.7	200.4	214.7	229.0	241.8
80°	154.3	140.0	128.8	119.3	124.1	132.0	147.9	167.0	186.1	202.0	217.9
82.5°	119.3	98.6	82.7	73.2	82.7	95.4	116.1	140.0	162.2	179.7	197.2
85°	92.3	68.4	49.3	39.8	49.3	68.4	90.7	117.7	141.6	160.6	178.1
87.5°	71.6	49.3	27.0	15.9	27.0	47.7	73.2	98.6	122.5	144.7	162.2
90°	57.3	33.4	12.7	3.2	14.3	33.4	57.3	82.7	106.6	130.4	147.9
92.5°	46.1	23.9	6.4	0.0	8.0	25.4	47.7	71.6	95.4	117.7	135.2
95°	38.2	19.1	4.8	0.0	6.4	19.1	38.2	62.0	84.3	106.6	120.9
97.5°	31.8	14.3	3.2	0.0	3.2	15.9	31.8	52.5	74.8	95.4	109.8
100°	27.0	12.7	3.2	0.0	3.2	12.7	27.0	46.1	65.2	84.3	98.6
102.5°	22.3	9.5	1.6	1.6	1.6	9.5	23.9	39.8	57.3	74.8	89.1
105°	20.7	8.0	1.6	1.6	1.6	8.0	20.7	35.0	50.9	66.8	79.5
107.5°	17.5	6.4	1.6	1.6	1.6	6.4	17.5	30.2	46.1	60.4	71.6
110°	14.3	6.4	1.6	1.6	1.6	6.4	14.3	27.0	39.8	52.5	63.6



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-83SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	12.7	4.8	1.6	1.6	1.6	4.8	12.7	23.9	35.0	47.7	57.3
115°	11.1	4.8	1.6	1.6	1.6	4.8	11.1	20.7	30.2	41.4	50.9
117.5°	9.5	4.8	1.6	1.6	1.6	3.2	9.5	17.5	27.0	36.6	46.1
120°	8.0	3.2	1.6	1.6	1.6	3.2	8.0	15.9	23.9	31.8	39.8
122.5°	8.0	3.2	1.6	1.6	1.6	3.2	6.4	12.7	20.7	27.0	35.0
125°	6.4	3.2	1.6	1.6	1.6	1.6	6.4	11.1	17.5	23.9	30.2
127.5°	6.4	3.2	1.6	1.6	1.6	1.6	4.8	9.5	14.3	20.7	27.0
130°	4.8	3.2	1.6	1.6	1.6	1.6	3.2	8.0	12.7	17.5	22.3
132.5°	4.8	3.2	1.6	1.6	1.6	1.6	3.2	6.4	9.5	14.3	19.1
135°	4.8	1.6	1.6	1.6	1.6	1.6	1.6	4.8	8.0	11.1	14.3
137.5°	3.2	1.6	1.6	1.6	1.6	1.6	1.6	3.2	6.4	8.0	12.7
140°	3.2	1.6	1.6	1.6	1.6	1.6	1.6	3.2	4.8	6.4	9.5
142.5°	3.2	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2	4.8	8.0
145°	3.2	1.6	1.6	3.2	3.2	1.6	1.6	3.2	3.2	4.8	6.4
147.5°	3.2	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2	3.2	4.8
150°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.8
152.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
155°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
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-LD5-83SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3079.4	3079.4	3079.4	3079.4	3079.4	3079.4	3079.4	3079.4	3079.4	3079.4	3079.4
2.5°	3095.3	3058.7	3077.8	3071.4	3077.8	3093.7	3092.1	3087.3	3090.5	3082.5	3074.6
5°	3088.9	3052.3	3071.4	3063.5	3071.4	3087.3	3084.1	3079.4	3084.1	3074.6	3066.6
7.5°	3081.0	3047.6	3069.8	3068.2	3082.5	3103.2	3104.8	3104.8	3115.9	3101.6	3095.3
10°	3081.0	3063.5	3093.7	3104.8	3141.4	3168.4	3171.6	3178.0	3197.1	3193.9	3178.0
12.5°	3114.4	3111.2	3155.7	3182.8	3216.2	3254.3	3275.0	3281.4	3294.1	3284.5	3278.2
15°	3157.3	3173.2	3222.5	3252.7	3289.3	3318.0	3322.7	3325.9	3335.4	3321.1	3310.0
17.5°	3214.6	3224.1	3263.9	3276.6	3300.5	3305.2	3298.9	3283.0	3283.0	3251.1	3241.6
20°	3241.6	3236.8	3252.7	3232.1	3222.5	3193.9	3166.8	3136.6	3135.0	3101.6	3098.5
22.5°	3217.7	3185.9	3152.5	3101.6	3079.4	3038.0	3001.4	2983.9	2972.8	2929.8	2918.7
25°	3133.4	3055.5	3006.2	2945.8	2891.7	2844.0	2809.0	2772.4	2737.4	2702.4	2686.5
27.5°	2987.1	2913.9	2834.4	2750.1	2675.4	2602.2	2543.3	2506.8	2473.4	2427.2	2403.4
30°	2807.4	2705.6	2618.1	2537.0	2414.5	2325.4	2276.1	2203.0	2177.5	2156.8	2112.3
32.5°	2595.8	2473.4	2354.1	2244.3	2118.7	2035.9	1970.7	1916.6	1900.7	1846.7	1833.9
35°	2362.0	2201.4	2066.2	1958.0	1867.3	1767.1	1713.1	1676.5	1644.7	1608.1	1601.7
37.5°	2086.8	1942.1	1789.4	1694.0	1622.4	1536.5	1495.1	1469.7	1455.4	1428.3	1423.6
40°	1810.1	1665.3	1560.4	1464.9	1420.4	1374.3	1344.0	1332.9	1326.5	1317.0	1307.5
42.5°	1558.8	1431.5	1356.8	1293.1	1274.1	1251.8	1243.8	1250.2	1243.8	1240.7	1239.1
45°	1345.6	1248.6	1196.1	1177.0	1172.3	1165.9	1172.3	1183.4	1185.0	1181.8	1181.8
47.5°	1151.6	1105.5	1083.2	1086.4	1094.3	1099.1	1110.2	1124.5	1127.7	1119.8	1122.9
50°	1024.3	997.3	992.5	1005.2	1022.7	1029.1	1041.8	1053.0	1051.4	1048.2	1045.0
52.5°	905.0	897.1	909.8	922.5	941.6	944.8	949.6	954.3	952.8	946.4	943.2
55°	804.8	811.2	822.3	827.1	841.4	839.8	841.4	841.4	835.1	831.9	827.1
57.5°	714.2	715.8	722.1	723.7	731.7	728.5	726.9	723.7	714.2	712.6	707.8
60°	621.9	618.7	633.1	621.9	628.3	621.9	620.3	612.4	602.8	601.2	598.1
62.5°	534.4	528.1	537.6	532.8	536.0	529.7	526.5	516.9	509.0	507.4	505.8
65°	456.5	453.3	462.9	461.3	464.4	456.5	453.3	447.0	440.6	439.0	437.4
67.5°	391.3	399.2	404.0	404.0	407.2	405.6	397.6	396.1	394.5	388.1	388.1
70°	343.6	348.3	357.9	359.5	357.9	361.1	354.7	353.1	351.5	348.3	346.7
72.5°	305.4	311.8	321.3	322.9	321.3	321.3	318.1	316.5	316.5	311.8	311.8
75°	275.2	283.1	291.1	291.1	291.1	287.9	284.7	284.7	281.5	279.9	276.8
77.5°	249.7	259.3	265.6	264.0	262.4	259.3	259.3	254.5	249.7	249.7	246.5
80°	230.6	237.0	241.8	240.2	238.6	233.8	232.2	227.5	224.3	219.5	219.5
82.5°	210.0	217.9	221.1	219.5	216.3	211.5	210.0	206.8	203.6	202.0	198.8
85°	192.5	200.4	202.0	198.8	195.6	192.5	190.9	189.3	187.7	184.5	184.5
87.5°	175.0	182.9	182.9	181.3	178.1	176.6	175.0	173.4	171.8	170.2	168.6
90°	160.6	167.0	167.0	165.4	163.8	162.2	160.6	159.1	157.5	155.9	155.9
92.5°	146.3	152.7	152.7	151.1	149.5	147.9	147.9	146.3	144.7	143.2	141.6
95°	133.6	140.0	140.0	140.0	138.4	136.8	136.8	135.2	133.6	133.6	132.0
97.5°	120.9	127.2	127.2	127.2	125.7	124.1	124.1	122.5	122.5	122.5	120.9
100°	109.8	114.5	116.1	116.1	114.5	114.5	114.5	112.9	112.9	112.9	111.3
102.5°	98.6	103.4	106.6	106.6	106.6	105.0	105.0	105.0	105.0	105.0	103.4
105°	89.1	93.8	97.0	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
107.5°	81.1	85.9	89.1	90.7	92.3	92.3	93.8	93.8	93.8	93.8	93.8
110°	73.2	77.9	82.7	84.3	85.9	87.5	87.5	89.1	87.5	87.5	87.5



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-83SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	65.2	71.6	74.8	77.9	79.5	81.1	82.7	82.7	82.7	82.7	82.7
115°	58.9	65.2	68.4	71.6	74.8	76.3	76.3	77.9	77.9	77.9	76.3
117.5°	52.5	58.9	62.0	65.2	66.8	70.0	71.6	71.6	71.6	71.6	70.0
120°	47.7	52.5	55.7	58.9	62.0	63.6	65.2	65.2	65.2	65.2	65.2
122.5°	41.4	46.1	50.9	54.1	55.7	57.3	58.9	58.9	58.9	58.9	58.9
125°	36.6	41.4	44.5	47.7	49.3	52.5	52.5	52.5	52.5	52.5	52.5
127.5°	31.8	36.6	39.8	42.9	44.5	46.1	47.7	47.7	47.7	47.7	47.7
130°	27.0	31.8	35.0	38.2	39.8	41.4	41.4	42.9	42.9	42.9	42.9
132.5°	23.9	27.0	30.2	33.4	35.0	36.6	36.6	38.2	38.2	38.2	38.2
135°	19.1	23.9	25.4	28.6	30.2	31.8	31.8	33.4	33.4	33.4	33.4
137.5°	15.9	19.1	22.3	25.4	27.0	27.0	28.6	28.6	30.2	30.2	30.2
140°	12.7	14.3	19.1	20.7	22.3	23.9	25.4	25.4	25.4	25.4	25.4
142.5°	9.5	12.7	14.3	17.5	19.1	20.7	22.3	22.3	22.3	22.3	22.3
145°	8.0	9.5	11.1	14.3	15.9	17.5	19.1	19.1	19.1	19.1	19.1
147.5°	6.4	8.0	9.5	11.1	12.7	14.3	15.9	15.9	15.9	15.9	15.9
150°	4.8	6.4	8.0	8.0	9.5	11.1	12.7	14.3	14.3	14.3	14.3
152.5°	4.8	4.8	6.4	6.4	8.0	9.5	11.1	11.1	11.1	11.1	11.1
155°	3.2	4.8	4.8	4.8	6.4	6.4	8.0	9.5	9.5	9.5	9.5
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



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-83SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3079.4	3079.4	3079.4	3079.4	3079.4	3079.4	3079.4	3079.4	3079.4	3079.4	3079.4
2.5°	3079.4	3085.7	3082.5	3077.8	3076.2	3084.1	3076.2	3039.6	3053.9	3055.5	3066.6
5°	3074.6	3079.4	3076.2	3073.0	3068.2	3077.8	3068.2	3030.1	3044.4	3046.0	3057.1
7.5°	3106.4	3108.0	3108.0	3100.0	3087.3	3092.1	3079.4	3036.4	3044.4	3044.4	3052.3
10°	3185.9	3189.1	3193.9	3173.2	3157.3	3144.6	3127.1	3074.6	3073.0	3060.3	3060.3
12.5°	3289.3	3281.4	3273.4	3263.9	3251.1	3235.2	3209.8	3147.8	3127.1	3106.4	3085.7
15°	3319.5	3316.4	3314.8	3310.0	3302.0	3297.3	3278.2	3216.2	3185.9	3160.5	3123.9
17.5°	3240.0	3246.4	3267.1	3268.6	3278.2	3297.3	3294.1	3251.1	3224.1	3213.0	3168.4
20°	3096.9	3098.5	3123.9	3135.0	3176.4	3208.2	3232.1	3227.3	3220.9	3233.6	3200.2
22.5°	2925.1	2936.2	2963.3	2980.7	3020.5	3057.1	3095.3	3115.9	3149.3	3201.8	3195.5
25°	2691.3	2705.6	2743.8	2772.4	2828.1	2883.7	2934.6	2971.2	3011.0	3111.2	3144.6
27.5°	2411.3	2433.6	2482.9	2511.5	2589.5	2646.7	2719.9	2791.5	2847.1	2961.7	3030.1
30°	2117.1	2136.1	2188.6	2228.4	2295.2	2373.1	2465.4	2567.2	2659.5	2775.6	2861.5
32.5°	1841.9	1862.6	1905.5	1940.5	2015.3	2080.5	2182.3	2307.9	2393.8	2554.5	2669.0
35°	1601.7	1620.8	1651.0	1681.2	1743.3	1810.1	1897.6	2020.0	2129.8	2296.8	2441.5
37.5°	1433.1	1436.3	1453.8	1471.3	1517.4	1568.3	1636.7	1744.9	1846.7	2026.4	2185.5
40°	1312.2	1312.2	1321.8	1326.5	1347.2	1377.4	1420.4	1504.7	1589.0	1725.8	1919.8
42.5°	1237.5	1234.3	1234.3	1235.9	1234.3	1248.6	1274.1	1313.8	1388.6	1501.5	1652.6
45°	1181.8	1175.4	1170.7	1159.5	1153.2	1153.2	1154.8	1169.1	1212.0	1285.2	1407.7
47.5°	1119.8	1118.2	1110.2	1097.5	1086.4	1078.4	1065.7	1060.9	1073.6	1115.0	1197.7
50°	1048.2	1040.2	1032.3	1022.7	1010.0	1002.1	978.2	979.8	968.7	987.8	1030.7
52.5°	943.2	936.9	933.7	925.7	920.9	917.8	898.7	879.6	874.8	878.0	893.9
55°	827.1	830.3	817.6	823.9	822.3	808.0	800.1	785.7	781.0	779.4	787.3
57.5°	706.2	709.4	701.4	707.8	707.8	699.9	695.1	695.1	683.9	674.4	685.5
60°	596.5	590.1	594.9	602.8	602.8	598.1	594.9	594.9	586.9	583.7	591.7
62.5°	507.4	501.0	505.8	513.8	515.3	512.2	509.0	509.0	499.4	499.4	505.8
65°	439.0	440.6	439.0	445.4	445.4	447.0	443.8	440.6	429.5	434.2	432.6
67.5°	389.7	388.1	388.1	394.5	392.9	396.1	392.9	388.1	380.1	373.8	372.2
70°	348.3	346.7	346.7	349.9	351.5	351.5	349.9	346.7	335.6	329.3	324.5
72.5°	311.8	310.2	311.8	313.3	314.9	316.5	314.9	311.8	302.2	294.3	286.3
75°	278.4	276.8	281.5	281.5	283.1	283.1	284.7	283.1	275.2	265.6	256.1
77.5°	244.9	246.5	251.3	252.9	256.1	257.7	259.3	259.3	251.3	243.4	230.6
80°	217.9	221.1	224.3	225.9	229.0	233.8	235.4	237.0	230.6	222.7	208.4
82.5°	198.8	200.4	203.6	205.2	210.0	211.5	213.1	216.3	213.1	205.2	189.3
85°	182.9	184.5	187.7	187.7	190.9	194.1	195.6	197.2	195.6	187.7	171.8
87.5°	168.6	170.2	171.8	173.4	175.0	176.6	178.1	179.7	178.1	170.2	155.9
90°	155.9	155.9	157.5	157.5	159.1	160.6	163.8	163.8	162.2	155.9	141.6
92.5°	141.6	143.2	143.2	144.7	146.3	147.9	149.5	149.5	147.9	141.6	128.8
95°	132.0	132.0	133.6	133.6	135.2	135.2	136.8	136.8	135.2	128.8	116.1
97.5°	120.9	120.9	120.9	120.9	122.5	122.5	124.1	124.1	122.5	116.1	105.0
100°	111.3	111.3	111.3	111.3	111.3	112.9	112.9	112.9	111.3	105.0	93.8
102.5°	103.4	103.4	103.4	103.4	103.4	103.4	103.4	103.4	100.2	95.4	84.3
105°	98.6	98.6	98.6	97.0	97.0	97.0	95.4	95.4	90.7	85.9	76.3
107.5°	92.3	92.3	92.3	90.7	90.7	89.1	87.5	87.5	82.7	77.9	68.4
110°	87.5	87.5	87.5	85.9	84.3	82.7	81.1	79.5	74.8	68.4	60.4



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-83SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	82.7	82.7	81.1	81.1	79.5	77.9	74.8	73.2	68.4	62.0	54.1
115°	76.3	76.3	76.3	74.8	73.2	71.6	70.0	66.8	62.0	55.7	47.7
117.5°	70.0	70.0	70.0	68.4	66.8	65.2	63.6	60.4	55.7	49.3	42.9
120°	63.6	63.6	63.6	62.0	60.4	58.9	57.3	54.1	49.3	44.5	36.6
122.5°	58.9	58.9	57.3	55.7	54.1	52.5	50.9	47.7	44.5	38.2	31.8
125°	52.5	52.5	50.9	50.9	49.3	47.7	46.1	42.9	38.2	33.4	28.6
127.5°	47.7	46.1	46.1	46.1	44.5	42.9	39.8	38.2	33.4	28.6	23.9
130°	41.4	41.4	41.4	39.8	39.8	38.2	35.0	31.8	28.6	25.4	20.7
132.5°	36.6	36.6	36.6	36.6	35.0	33.4	30.2	28.6	25.4	20.7	17.5
135°	33.4	33.4	31.8	31.8	30.2	28.6	27.0	23.9	20.7	17.5	14.3
137.5°	28.6	28.6	28.6	27.0	27.0	25.4	22.3	20.7	19.1	15.9	12.7
140°	25.4	25.4	23.9	23.9	22.3	22.3	20.7	17.5	15.9	12.7	11.1
142.5°	22.3	22.3	20.7	20.7	19.1	19.1	17.5	15.9	12.7	11.1	8.0
145°	19.1	19.1	17.5	17.5	17.5	15.9	14.3	12.7	11.1	9.5	8.0
147.5°	15.9	15.9	15.9	14.3	14.3	12.7	12.7	11.1	9.5	8.0	6.4
150°	14.3	14.3	12.7	12.7	12.7	11.1	9.5	9.5	8.0	6.4	4.8
152.5°	11.1	11.1	11.1	11.1	9.5	9.5	8.0	8.0	6.4	4.8	4.8
155°	9.5	9.5	9.5	8.0	8.0	8.0	6.4	6.4	4.8	4.8	3.2
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-LD5-83SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3079.4	3079.4	3079.4	3079.4	3079.4	3079.4	3079.4
2.5°	3061.9	3060.3	3074.6	3073.0	3053.9	3082.5	3101.6
5°	3053.9	3052.3	3065.0	3068.2	3047.6	3077.8	3098.5
7.5°	3047.6	3046.0	3060.3	3065.0	3044.4	3071.4	3093.7
10°	3049.1	3041.2	3053.9	3057.1	3038.0	3066.6	3085.7
12.5°	3060.3	3041.2	3046.0	3046.0	3028.5	3053.9	3074.6
15°	3087.3	3047.6	3041.2	3036.4	3014.1	3038.0	3058.7
17.5°	3117.5	3063.5	3041.2	3025.3	2998.2	3018.9	3041.2
20°	3147.8	3081.0	3044.4	3018.9	2982.3	3001.4	3017.3
22.5°	3162.1	3096.9	3047.6	3009.4	2963.3	2972.8	2990.3
25°	3143.0	3090.5	3041.2	2995.1	2939.4	2941.0	2955.3
27.5°	3073.0	3058.7	3026.9	2980.7	2920.3	2912.4	2923.5
30°	2953.7	2993.5	2995.1	2961.7	2898.0	2882.1	2886.9
32.5°	2786.7	2875.8	2928.3	2921.9	2866.2	2844.0	2847.1
35°	2594.2	2705.6	2820.1	2858.3	2818.5	2801.0	2794.6
37.5°	2363.6	2513.1	2665.8	2759.7	2753.3	2742.2	2735.8
40°	2109.1	2288.8	2470.2	2619.7	2665.8	2665.8	2669.0
42.5°	1837.1	2047.1	2245.9	2435.2	2543.3	2567.2	2576.7
45°	1574.7	1786.2	2002.5	2220.4	2365.2	2440.0	2467.0
47.5°	1336.1	1549.2	1754.4	1993.0	2185.5	2282.5	2325.4
50°	1132.5	1291.6	1507.9	1744.9	1954.8	2074.1	2158.4
52.5°	963.9	1088.0	1277.2	1498.3	1709.9	1873.7	1951.6
55°	822.3	906.6	1067.3	1258.1	1460.2	1630.3	1721.0
57.5°	703.0	769.8	879.6	1038.6	1208.8	1377.4	1474.5
60°	598.1	644.2	718.9	844.6	989.3	1134.1	1227.9
62.5°	507.4	537.6	586.9	679.2	792.1	905.0	992.5
65°	437.4	450.1	477.2	534.4	620.3	706.2	781.0
67.5°	369.0	377.0	397.6	432.6	475.6	537.6	586.9
70°	318.1	318.1	319.7	340.4	362.7	402.4	437.4
72.5°	276.8	272.0	262.4	267.2	272.0	294.3	316.5
75°	243.4	232.2	216.3	210.0	206.8	210.0	222.7
77.5°	214.7	198.8	179.7	163.8	151.1	146.3	157.5
80°	190.9	171.8	149.5	128.8	108.2	97.0	101.8
82.5°	171.8	147.9	124.1	100.2	76.3	60.4	60.4
85°	151.1	128.8	103.4	77.9	54.1	33.4	30.2
87.5°	136.8	112.9	85.9	62.0	38.2	17.5	9.5
90°	122.5	98.6	73.2	49.3	27.0	8.0	0.0
92.5°	109.8	87.5	63.6	39.8	19.1	4.8	0.0
95°	98.6	77.9	54.1	33.4	15.9	3.2	1.6
97.5°	87.5	68.4	47.7	27.0	11.1	3.2	1.6
100°	79.5	60.4	41.4	22.3	9.5	1.6	1.6
102.5°	70.0	54.1	35.0	19.1	8.0	1.6	1.6
105°	62.0	47.7	30.2	15.9	6.4	1.6	1.6
107.5°	55.7	41.4	27.0	14.3	6.4	1.6	1.6
110°	49.3	36.6	23.9	12.7	4.8	1.6	1.6



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-83SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	44.5	31.8	20.7	11.1	3.2	1.6	1.6
115°	38.2	28.6	17.5	9.5	3.2	1.6	1.6
117.5°	33.4	23.9	15.9	8.0	3.2	1.6	1.6
120°	28.6	20.7	12.7	6.4	1.6	1.6	1.6
122.5°	25.4	17.5	11.1	6.4	1.6	1.6	1.6
125°	22.3	15.9	9.5	4.8	1.6	1.6	1.6
127.5°	19.1	12.7	8.0	3.2	1.6	1.6	1.6
130°	15.9	11.1	6.4	3.2	1.6	1.6	1.6
132.5°	12.7	9.5	6.4	3.2	1.6	1.6	1.6
135°	11.1	8.0	4.8	3.2	1.6	1.6	1.6
137.5°	9.5	6.4	3.2	3.2	3.2	1.6	1.6
140°	8.0	4.8	3.2	3.2	3.2	3.2	1.6
142.5°	6.4	4.8	3.2	3.2	3.2	3.2	1.6
145°	4.8	3.2	3.2	3.2	3.2	3.2	1.6
147.5°	4.8	3.2	3.2	3.2	3.2	3.2	1.6
150°	3.2	3.2	3.2	3.2	3.2	3.2	3.2
152.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2
155°	3.2	3.2	3.2	3.2	3.2	3.2	3.2
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)