

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-L935-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-L935-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
CLEAR LENSED
Light Source: -
Ballast/Driver: -

Summary

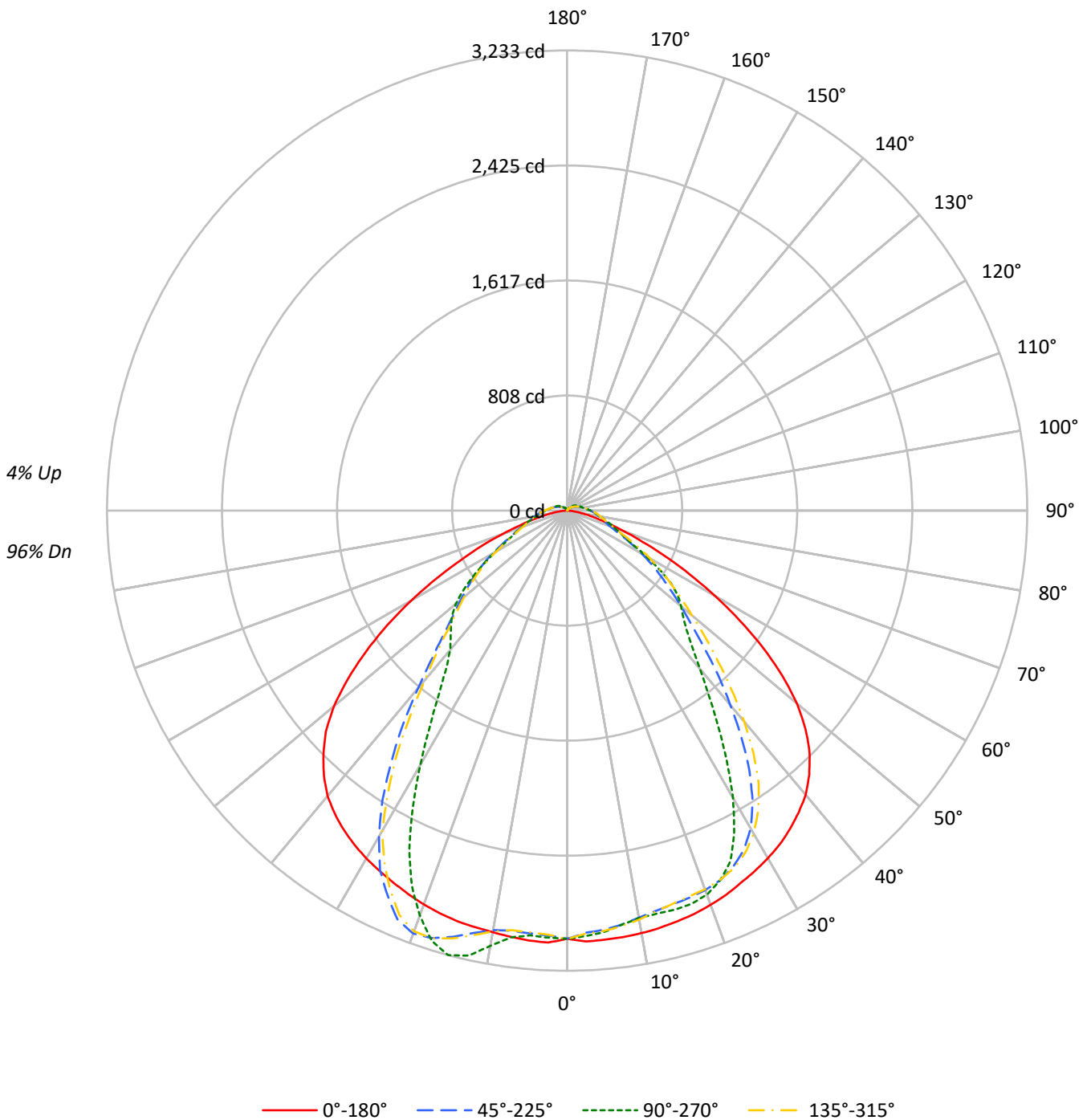
Lumens per Lamp: N/A
Luminaire Lumens: 7171.0 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

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



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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	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°	12154	12154	12154	12154
5°	12259	11672	12284	11764
10°	12333	11187	12308	11946
15°	12446	11037	12440	12289
20°	12602	10862	12588	11450
25°	12777	10304	12770	9957
30°	13039	8931	13047	7912
35°	13320	7222	13358	6111
40°	13574	5814	13630	5123
45°	13559	4925	13628	4796
50°	13011	4535	13194	4433
55°	11585	4076	11873	3705
60°	9438	3119	9939	2861
65°	7057	2387	7603	2263
70°	4840	2061	5456	1970
75°	3208	1859	3736	1758
80°	2125	1733	2490	1594
85°	1160	1729	1526	1579



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.7	4.0
10°-20°	850.1	11.9
20°-30°	1292.5	18.0
30°-40°	1386.5	19.3
40°-50°	1203.3	16.8
50°-60°	891.8	12.4
60°-70°	511.0	7.1
70°-80°	283.0	3.9
80°-90°	172.3	2.4
90°-100°	112.0	1.6
100°-110°	75.0	1.0
110°-120°	50.7	0.7
120°-130°	31.1	0.4
130°-140°	16.4	0.2
140°-150°	7.5	0.1
150°-160°	2.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2428.3	33.9
0°-40°	3814.8	53.2
0°-60°	5909.9	82.4
0°-90°	6876.2	95.9
90°-120°	237.8	3.3
90°-150°	292.7	4.1
90°-180°	295.0	4.1
0°-180°	7171.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3008	3008	3008	3008	3008	
5°	3027	2972	3033	2996	3027	288
15°	2988	2904	2986	3233	2988	845
25°	2887	2716	2885	2624	2887	1334
35°	2730	1849	2738	1565	2730	1709
45°	2410	1186	2422	1154	2410	1845
55°	1681	889	1723	808	1681	1491
65°	763	451	822	427	763	769
75°	218	286	253	270	218	248
85°	30	197	39	180	30	39
90°	0	165	3	152	0	1
95°	2	135	0	129	2	1
105°	2	101	2	96	2	2
115°	2	82	2	75	2	2
125°	2	62	2	51	2	1
135°	2	39	2	33	2	1
145°	2	23	3	19	2	1
155°	3	11	3	9	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°	3008.1	3008.1	3008.1	3008.1	3008.1	3008.1	3008.1	3008.1	3008.1	3008.1	3008.1
2.5°	3029.8	3022.0	3018.9	3012.7	3017.4	3036.0	3023.6	3003.4	3004.9	2969.2	2987.9
5°	3026.7	3017.4	3012.7	3006.5	3009.6	3026.7	3014.3	2994.1	2992.5	2956.8	2973.9
7.5°	3022.0	3012.7	3004.9	3000.3	3001.8	3015.8	3000.3	2977.0	2972.3	2933.5	2949.0
10°	3014.3	3008.1	2997.2	2989.4	2987.9	3003.4	2978.5	2955.2	2944.3	2904.0	2919.5
12.5°	3003.4	2994.1	2983.2	2969.2	2967.7	2977.0	2956.8	2924.2	2913.3	2880.6	2897.7
15°	2987.9	2977.0	2964.5	2949.0	2941.2	2947.5	2922.6	2893.1	2891.5	2863.6	2886.9
17.5°	2970.8	2955.2	2941.2	2919.5	2908.6	2913.3	2893.1	2866.7	2869.8	2852.7	2879.1
20°	2947.5	2930.4	2908.6	2886.9	2871.3	2879.1	2865.1	2844.9	2849.6	2837.1	2860.4
22.5°	2921.0	2897.7	2871.3	2846.5	2834.0	2844.9	2834.0	2816.9	2818.5	2810.7	2824.7
25°	2886.9	2860.4	2829.4	2798.3	2792.1	2799.9	2793.6	2779.7	2773.4	2761.0	2767.2
27.5°	2855.8	2826.3	2787.4	2754.8	2743.9	2759.5	2745.5	2722.2	2705.1	2688.0	2675.6
30°	2820.0	2784.3	2740.8	2703.5	2694.2	2700.4	2680.2	2644.5	2599.4	2577.7	2543.5
32.5°	2781.2	2734.6	2680.2	2638.3	2632.0	2627.4	2590.1	2538.8	2468.9	2425.4	2372.6
35°	2729.9	2678.7	2613.4	2562.1	2552.8	2526.4	2465.8	2397.4	2307.3	2232.7	2142.6
37.5°	2672.4	2611.8	2543.5	2475.1	2448.7	2395.9	2310.4	2238.9	2102.2	2012.1	1903.3
40°	2607.2	2534.2	2450.3	2367.9	2324.4	2238.9	2141.1	2035.4	1903.3	1782.1	1690.5
42.5°	2517.1	2439.4	2339.9	2248.3	2173.7	2060.3	1945.3	1796.1	1674.9	1572.4	1479.2
45°	2409.9	2316.6	2201.7	2091.3	1996.6	1861.4	1726.2	1577.1	1476.1	1356.4	1292.7
47.5°	2271.6	2170.6	2047.8	1925.1	1800.8	1651.6	1510.2	1367.3	1266.3	1180.8	1134.2
50°	2108.4	2015.2	1880.0	1734.0	1597.3	1441.9	1300.5	1193.3	1095.4	1042.6	1006.8
52.5°	1906.4	1819.4	1681.2	1522.7	1390.6	1238.3	1109.4	1022.4	952.4	913.6	901.2
55°	1681.2	1605.0	1468.3	1320.7	1185.5	1045.7	947.8	871.7	826.6	803.3	804.8
57.5°	1440.3	1381.3	1252.3	1120.3	992.8	887.2	798.6	738.0	703.8	702.3	707.0
60°	1199.5	1156.0	1044.1	930.7	818.8	733.4	668.1	626.2	604.4	606.0	604.4
62.5°	969.5	929.1	848.3	755.1	666.6	609.1	550.0	532.9	514.3	512.7	512.7
65°	762.9	731.8	666.6	599.7	532.9	495.6	466.1	445.9	431.9	428.8	430.4
67.5°	573.3	560.9	515.8	470.8	428.8	405.5	380.7	376.0	365.1	365.1	368.2
70°	427.3	418.0	393.1	366.7	349.6	334.1	321.6	321.6	320.1	318.5	326.3
72.5°	309.2	310.7	303.0	282.8	281.2	278.1	275.0	279.7	281.2	285.9	295.2
75°	217.5	222.2	222.2	219.1	225.3	233.1	237.7	245.5	254.8	261.0	271.9
77.5°	153.8	153.8	161.6	170.9	183.3	197.3	209.8	220.6	233.1	240.8	250.2
80°	99.4	104.1	116.5	133.6	150.7	169.4	186.4	200.4	212.9	225.3	231.5
82.5°	59.0	66.8	82.3	104.1	125.9	149.2	166.3	183.3	197.3	209.8	214.4
85°	29.5	40.4	59.0	82.3	105.7	130.5	152.3	167.8	183.3	194.2	200.4
87.5°	9.3	21.8	42.0	63.7	88.6	113.4	136.7	153.8	167.8	177.1	183.3
90°	0.0	10.9	29.5	52.8	76.1	101.0	122.7	141.4	155.4	163.1	167.8
92.5°	0.0	6.2	23.3	43.5	65.3	90.1	111.9	129.0	141.4	149.2	152.3
95°	1.6	4.7	17.1	35.7	57.5	80.8	101.0	116.5	129.0	136.7	138.3
97.5°	1.6	3.1	14.0	29.5	49.7	71.5	91.7	107.2	116.5	124.3	125.9
100°	1.6	3.1	10.9	26.4	43.5	63.7	82.3	96.3	107.2	113.4	115.0
102.5°	1.6	1.6	9.3	21.8	38.8	55.9	73.0	87.0	96.3	102.5	105.7
105°	1.6	1.6	7.8	18.6	34.2	49.7	65.3	79.2	87.0	93.2	96.3
107.5°	1.6	1.6	6.2	15.5	29.5	43.5	59.0	69.9	79.2	85.5	88.6
110°	1.6	1.6	4.7	14.0	24.9	38.8	51.3	62.1	71.5	77.7	80.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.6	1.6	4.7	12.4	21.8	34.2	45.1	55.9	63.7	69.9	74.6
115°	1.6	1.6	4.7	10.9	20.2	29.5	40.4	49.7	57.5	63.7	68.4
117.5°	1.6	1.6	4.7	9.3	17.1	26.4	35.7	45.1	51.3	57.5	62.1
120°	1.6	1.6	3.1	7.8	15.5	23.3	31.1	38.8	46.6	52.8	57.5
122.5°	1.6	1.6	3.1	7.8	12.4	20.2	28.0	34.2	42.0	46.6	51.3
125°	1.6	1.6	3.1	6.2	10.9	18.6	24.9	31.1	35.7	42.0	46.6
127.5°	1.6	1.6	3.1	6.2	9.3	15.5	21.8	28.0	32.6	37.3	40.4
130°	1.6	1.6	3.1	4.7	7.8	12.4	18.6	23.3	29.5	32.6	35.7
132.5°	1.6	1.6	1.6	4.7	6.2	9.3	14.0	20.2	24.9	29.5	31.1
135°	1.6	1.6	1.6	3.1	6.2	7.8	10.9	15.5	20.2	24.9	28.0
137.5°	1.6	1.6	1.6	3.1	4.7	7.8	9.3	12.4	17.1	20.2	24.9
140°	1.6	1.6	1.6	3.1	4.7	6.2	7.8	10.9	14.0	17.1	20.2
142.5°	1.6	1.6	1.6	3.1	3.1	4.7	6.2	9.3	10.9	14.0	17.1
145°	1.6	1.6	1.6	3.1	3.1	4.7	6.2	7.8	9.3	10.9	14.0
147.5°	1.6	1.6	1.6	3.1	3.1	3.1	4.7	6.2	7.8	9.3	10.9
150°	3.1	3.1	3.1	3.1	3.1	3.1	4.7	4.7	6.2	7.8	9.3
152.5°	3.1	3.1	3.1	3.1	3.1	3.1	4.7	4.7	4.7	6.2	7.8
155°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.7	4.7	6.2	6.2
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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3008.1	3008.1	3008.1	3008.1	3008.1	3008.1	3008.1	3008.1	3008.1	3008.1	3008.1
2.5°	2981.6	2984.7	3003.4	3001.8	2998.7	2995.6	2995.6	2992.5	2995.6	3003.4	3000.3
5°	2966.1	2970.8	2984.7	2983.2	2980.1	2978.5	2977.0	2972.3	2975.4	2986.3	2983.2
7.5°	2938.1	2942.8	2955.2	2949.0	2944.3	2947.5	2939.7	2935.0	2941.2	2952.1	2950.6
10°	2908.6	2911.7	2927.3	2924.2	2916.4	2917.9	2910.2	2907.1	2914.8	2921.0	2922.6
12.5°	2888.4	2899.3	2913.3	2911.7	2910.2	2911.7	2904.0	2900.8	2905.5	2911.7	2910.2
15°	2883.8	2897.7	2913.3	2913.3	2914.8	2916.4	2908.6	2904.0	2908.6	2913.3	2911.7
17.5°	2879.1	2896.2	2910.2	2908.6	2910.2	2913.3	2900.8	2897.7	2904.0	2910.2	2907.1
20°	2863.6	2879.1	2888.4	2885.3	2885.3	2886.9	2871.3	2871.3	2880.6	2885.3	2886.9
22.5°	2820.0	2838.7	2838.7	2830.9	2830.9	2824.7	2820.0	2810.7	2821.6	2829.4	2835.6
25°	2754.8	2762.6	2753.2	2736.1	2726.8	2719.1	2697.3	2715.9	2715.9	2739.3	2747.0
27.5°	2663.1	2646.0	2619.6	2583.9	2576.1	2551.3	2537.3	2541.9	2549.7	2582.3	2607.2
30°	2512.4	2461.1	2416.1	2400.5	2366.4	2341.5	2316.6	2329.1	2343.0	2361.7	2413.0
32.5°	2313.5	2263.8	2190.8	2164.4	2128.6	2097.6	2068.0	2086.7	2111.5	2124.0	2179.9
35°	2085.1	2026.1	1959.3	1914.2	1876.9	1859.8	1822.5	1849.0	1875.4	1884.7	1932.9
37.5°	1842.7	1782.1	1723.1	1684.3	1648.5	1637.6	1612.8	1631.4	1651.6	1665.6	1706.0
40°	1612.8	1556.9	1511.8	1485.4	1460.5	1451.2	1441.9	1449.6	1465.2	1476.1	1507.1
42.5°	1415.5	1370.4	1339.3	1323.8	1306.7	1294.3	1295.8	1298.9	1306.7	1330.0	1344.0
45°	1243.0	1216.6	1196.4	1193.3	1182.4	1180.8	1179.3	1185.5	1190.2	1204.2	1215.0
47.5°	1104.7	1093.8	1089.2	1095.4	1100.1	1093.8	1096.9	1104.7	1114.0	1114.0	1112.5
50°	996.0	999.1	1005.3	1019.3	1028.6	1031.7	1034.8	1044.1	1045.7	1048.8	1044.1
52.5°	907.4	910.5	927.6	949.3	960.2	964.9	971.1	980.4	980.4	983.5	977.3
55°	817.3	821.9	839.0	860.8	870.1	876.3	882.5	888.7	893.4	899.6	895.0
57.5°	717.8	731.8	742.7	748.9	755.1	759.8	764.4	766.0	775.3	776.9	784.6
60°	612.2	615.3	626.2	624.6	619.9	632.4	626.2	637.0	647.9	661.9	663.4
62.5°	511.2	512.7	520.5	517.4	523.6	522.1	526.7	526.7	534.5	540.7	548.5
65°	431.9	433.5	439.7	439.7	438.2	442.8	447.5	450.6	450.6	455.2	461.5
67.5°	372.9	377.6	383.8	386.9	390.0	390.0	394.7	396.2	399.3	400.9	404.0
70°	332.5	338.7	344.9	348.0	349.6	352.7	354.3	354.3	357.4	358.9	362.0
72.5°	303.0	309.2	313.9	313.9	317.0	318.5	318.5	320.1	321.6	324.7	327.8
75°	278.1	282.8	285.9	284.3	284.3	284.3	285.9	285.9	289.0	292.1	295.2
77.5°	254.8	259.5	259.5	256.4	256.4	256.4	256.4	257.9	259.5	262.6	265.7
80°	237.7	237.7	236.2	236.2	233.1	231.5	231.5	233.1	233.1	236.2	240.8
82.5°	219.1	219.1	217.5	216.0	214.4	212.9	212.9	214.4	216.0	217.5	220.6
85°	202.0	202.0	198.9	198.9	197.3	197.3	197.3	197.3	198.9	200.4	203.5
87.5°	184.9	183.3	181.8	180.2	180.2	180.2	180.2	180.2	181.8	184.9	186.4
90°	167.8	166.3	164.7	164.7	163.1	163.1	164.7	164.7	166.3	167.8	169.4
92.5°	152.3	150.7	149.2	149.2	147.6	147.6	149.2	147.6	150.7	150.7	152.3
95°	138.3	136.7	135.2	135.2	135.2	135.2	135.2	135.2	136.7	136.7	138.3
97.5°	125.9	124.3	122.7	122.7	124.3	122.7	124.3	124.3	124.3	125.9	127.4
100°	115.0	113.4	113.4	115.0	113.4	113.4	115.0	115.0	115.0	115.0	116.5
102.5°	105.7	105.7	105.7	105.7	105.7	105.7	107.2	107.2	107.2	107.2	108.8
105°	96.3	97.9	97.9	97.9	99.4	99.4	99.4	101.0	101.0	101.0	101.0
107.5°	90.1	91.7	91.7	93.2	93.2	94.8	94.8	94.8	94.8	96.3	96.3
110°	83.9	85.5	87.0	88.6	88.6	90.1	90.1	90.1	90.1	90.1	90.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-83SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	77.7	79.2	80.8	83.9	85.5	85.5	85.5	85.5	87.0	87.0	85.5
115°	71.5	74.6	76.1	79.2	80.8	80.8	82.3	82.3	82.3	82.3	80.8
117.5°	65.3	69.9	71.5	74.6	76.1	76.1	77.7	77.7	77.7	77.7	76.1
120°	60.6	63.7	66.8	68.4	69.9	71.5	71.5	73.0	73.0	73.0	71.5
122.5°	55.9	59.0	62.1	63.7	65.3	66.8	66.8	66.8	66.8	66.8	66.8
125°	49.7	52.8	55.9	57.5	59.0	60.6	60.6	62.1	62.1	62.1	60.6
127.5°	45.1	48.2	49.7	52.8	54.4	54.4	55.9	55.9	55.9	55.9	54.4
130°	38.8	42.0	45.1	46.6	48.2	48.2	49.7	49.7	49.7	49.7	49.7
132.5°	34.2	37.3	38.8	42.0	42.0	43.5	43.5	45.1	45.1	45.1	43.5
135°	31.1	32.6	34.2	37.3	37.3	38.8	38.8	38.8	38.8	38.8	38.8
137.5°	28.0	29.5	31.1	32.6	32.6	34.2	34.2	34.2	34.2	35.7	34.2
140°	23.3	26.4	28.0	28.0	29.5	29.5	29.5	31.1	31.1	31.1	29.5
142.5°	20.2	21.8	23.3	24.9	26.4	26.4	26.4	26.4	28.0	26.4	26.4
145°	15.5	18.6	20.2	21.8	23.3	23.3	23.3	23.3	23.3	23.3	23.3
147.5°	12.4	14.0	17.1	18.6	18.6	20.2	20.2	20.2	20.2	20.2	20.2
150°	10.9	10.9	14.0	15.5	17.1	17.1	17.1	17.1	17.1	17.1	17.1
152.5°	7.8	9.3	10.9	12.4	14.0	14.0	14.0	14.0	14.0	14.0	14.0
155°	7.8	7.8	9.3	9.3	10.9	10.9	10.9	10.9	12.4	10.9	10.9
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-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3008.1	3008.1	3008.1	3008.1	3008.1	3008.1	3008.1	3008.1	3008.1	3008.1	3008.1
2.5°	2995.6	2994.1	3000.3	2994.1	2963.0	2975.4	2970.8	2987.9	2989.4	2994.1	3009.6
5°	2980.1	2980.1	2987.9	2981.6	2952.1	2964.5	2963.0	2980.1	2983.2	2986.3	3003.4
7.5°	2949.0	2950.6	2961.4	2956.8	2925.7	2944.3	2942.8	2963.0	2969.2	2975.4	2991.0
10°	2919.5	2917.9	2930.4	2925.7	2896.2	2917.9	2916.4	2936.6	2945.9	2956.8	2975.4
12.5°	2904.0	2899.3	2904.0	2899.3	2866.7	2883.8	2885.3	2908.6	2919.5	2933.5	2955.2
15°	2904.0	2896.2	2896.2	2886.9	2849.6	2860.4	2862.0	2877.5	2891.5	2905.5	2931.9
17.5°	2900.8	2893.1	2891.5	2883.8	2843.4	2843.4	2841.8	2852.7	2860.4	2874.4	2902.4
20°	2883.8	2880.6	2879.1	2874.4	2837.1	2830.9	2827.8	2827.8	2832.5	2837.1	2865.1
22.5°	2838.7	2841.8	2844.9	2848.0	2818.5	2807.6	2809.2	2806.1	2801.4	2801.4	2824.7
25°	2754.8	2770.3	2782.8	2796.7	2779.7	2771.9	2781.2	2776.5	2768.8	2762.6	2782.8
27.5°	2621.2	2653.8	2680.2	2714.4	2715.9	2709.7	2734.6	2731.5	2729.9	2720.6	2736.1
30°	2436.3	2487.5	2523.3	2573.0	2615.0	2621.2	2663.1	2669.3	2675.6	2670.9	2686.4
32.5°	2212.5	2282.5	2343.0	2420.7	2461.1	2496.9	2555.9	2580.8	2605.6	2613.4	2630.5
35°	1968.6	2047.8	2119.3	2204.8	2268.5	2346.2	2417.6	2454.9	2510.9	2532.6	2557.5
37.5°	1737.1	1811.7	1881.6	1967.0	2069.6	2150.4	2238.9	2322.9	2399.0	2430.1	2467.3
40°	1532.0	1592.6	1659.4	1734.0	1827.2	1932.9	2029.2	2145.7	2235.8	2298.0	2352.4
42.5°	1376.6	1406.1	1463.6	1530.4	1605.0	1712.2	1810.1	1940.6	2049.4	2138.0	2228.1
45°	1238.3	1252.3	1294.3	1330.0	1406.1	1500.9	1605.0	1732.4	1845.9	1959.3	2068.0
47.5°	1120.3	1137.3	1157.5	1179.3	1233.7	1312.9	1403.0	1518.0	1631.4	1763.5	1887.8
50°	1041.0	1045.7	1048.8	1058.1	1090.7	1145.1	1218.1	1316.0	1424.8	1566.2	1698.2
52.5°	971.1	971.1	961.8	957.1	969.5	1003.7	1045.7	1115.6	1227.5	1358.0	1497.8
55°	896.5	882.5	879.4	863.9	867.0	882.5	902.7	957.1	1048.8	1160.6	1295.8
57.5°	792.4	786.2	786.2	780.0	767.6	775.3	780.0	818.8	884.1	980.4	1098.5
60°	672.8	669.7	677.4	679.0	668.1	672.8	671.2	694.5	741.1	818.8	916.7
62.5°	553.1	567.1	568.7	574.9	568.7	567.1	574.9	595.1	618.4	677.4	753.6
65°	464.6	472.3	473.9	481.7	478.6	478.6	484.8	500.3	514.3	554.7	613.7
67.5°	407.1	404.0	405.5	410.2	405.5	404.0	408.6	418.0	428.8	453.7	495.6
70°	362.0	358.9	358.9	358.9	352.7	348.0	349.6	352.7	357.4	371.3	397.8
72.5°	327.8	327.8	323.2	318.5	313.9	310.7	307.6	304.5	303.0	307.6	321.6
75°	296.8	298.3	296.8	292.1	285.9	279.7	273.5	267.2	259.5	256.4	257.9
77.5°	268.8	270.4	271.9	270.4	264.1	256.4	247.0	237.7	226.8	216.0	209.8
80°	243.9	247.0	248.6	247.0	242.4	236.2	225.3	214.4	198.9	184.9	169.4
82.5°	222.2	226.8	228.4	228.4	225.3	219.1	206.6	194.2	177.1	158.5	138.3
85°	205.1	208.2	211.3	211.3	209.8	203.5	191.1	177.1	160.0	138.3	116.5
87.5°	188.0	189.6	192.7	195.8	192.7	186.4	175.6	160.0	142.9	121.2	96.3
90°	170.9	172.5	175.6	178.7	177.1	170.9	161.6	147.6	129.0	105.7	80.8
92.5°	153.8	156.9	158.5	160.0	161.6	156.9	149.2	135.2	116.5	93.2	69.9
95°	141.4	141.4	144.5	146.1	147.6	142.9	136.7	122.7	105.7	83.9	60.6
97.5°	129.0	129.0	132.1	132.1	133.6	130.5	124.3	111.9	94.8	74.6	51.3
100°	116.5	118.1	119.6	121.2	121.2	119.6	113.4	101.0	85.5	66.8	45.1
102.5°	108.8	108.8	110.3	110.3	111.9	108.8	102.5	91.7	76.1	59.0	38.8
105°	101.0	101.0	102.5	102.5	101.0	97.9	91.7	82.3	68.4	51.3	34.2
107.5°	94.8	94.8	94.8	94.8	93.2	90.1	83.9	73.0	60.6	46.6	31.1
110°	90.1	88.6	88.6	87.0	85.5	80.8	74.6	65.3	54.4	40.4	26.4



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-83SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	85.5	83.9	82.3	80.8	77.7	73.0	66.8	59.0	48.2	35.7	23.3
115°	80.8	79.2	77.7	74.6	71.5	66.8	60.6	52.8	42.0	31.1	20.2
117.5°	76.1	74.6	71.5	68.4	65.3	60.6	54.4	46.6	37.3	28.0	18.6
120°	69.9	68.4	66.8	63.7	60.6	54.4	48.2	42.0	32.6	24.9	15.5
122.5°	65.3	63.7	60.6	59.0	54.4	49.7	43.5	37.3	29.5	21.8	14.0
125°	59.0	57.5	55.9	52.8	49.7	43.5	38.8	32.6	26.4	18.6	10.9
127.5°	54.4	52.8	49.7	46.6	43.5	38.8	34.2	29.5	23.3	15.5	10.9
130°	48.2	46.6	45.1	42.0	38.8	34.2	31.1	24.9	20.2	14.0	9.3
132.5°	42.0	42.0	40.4	37.3	34.2	31.1	26.4	21.8	17.1	12.4	7.8
135°	38.8	37.3	35.7	32.6	31.1	26.4	23.3	18.6	14.0	10.9	6.2
137.5°	34.2	32.6	31.1	29.5	26.4	23.3	20.2	15.5	12.4	9.3	6.2
140°	29.5	28.0	28.0	24.9	23.3	20.2	17.1	14.0	10.9	7.8	4.7
142.5°	26.4	24.9	23.3	21.8	20.2	17.1	14.0	10.9	9.3	6.2	4.7
145°	23.3	21.8	20.2	18.6	17.1	14.0	12.4	9.3	7.8	6.2	4.7
147.5°	18.6	18.6	17.1	15.5	14.0	12.4	10.9	9.3	6.2	4.7	3.1
150°	15.5	15.5	14.0	12.4	12.4	10.9	9.3	7.8	6.2	4.7	3.1
152.5°	14.0	12.4	12.4	10.9	10.9	9.3	7.8	6.2	4.7	4.7	3.1
155°	10.9	10.9	10.9	9.3	9.3	7.8	6.2	6.2	4.7	3.1	3.1
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-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3008.1	3008.1	3008.1	3008.1	3008.1	3008.1	3008.1	3008.1	3008.1	3008.1	3008.1
2.5°	3012.7	2994.1	3009.6	3037.6	3034.5	3031.4	3028.3	3034.5	3054.7	3043.8	3026.7
5°	3008.1	2989.4	3006.5	3032.9	3031.4	3026.7	3023.6	3029.8	3050.0	3039.1	3020.5
7.5°	2998.7	2981.6	2994.1	3020.5	3020.5	3017.4	3014.3	3020.5	3039.1	3029.8	3011.2
10°	2983.2	2970.8	2983.2	3008.1	3009.6	3003.4	3000.3	3008.1	3026.7	3022.0	3006.5
12.5°	2970.8	2958.3	2972.3	2997.2	2998.7	2992.5	2987.9	2997.2	3022.0	3025.1	3020.5
15°	2953.7	2942.8	2959.9	2986.3	2986.3	2981.6	2981.6	2994.1	3028.3	3042.2	3050.0
17.5°	2928.8	2921.0	2941.2	2967.7	2969.2	2966.1	2967.7	2992.5	3037.6	3071.8	3093.5
20°	2897.7	2894.6	2916.4	2944.3	2949.0	2950.6	2958.3	2995.6	3057.8	3104.4	3126.1
22.5°	2860.4	2862.0	2886.9	2916.4	2922.6	2927.3	2942.8	2995.6	3073.3	3123.0	3132.4
25°	2818.5	2823.2	2849.6	2885.3	2893.1	2902.4	2928.8	2997.2	3078.0	3110.6	3095.1
27.5°	2773.4	2782.8	2816.9	2854.2	2863.6	2879.1	2913.3	2987.9	3056.2	3057.8	3000.3
30°	2726.8	2737.7	2778.1	2821.6	2837.1	2852.7	2894.6	2966.1	3003.4	2953.7	2852.7
32.5°	2674.0	2689.5	2729.9	2782.8	2801.4	2821.6	2863.6	2924.2	2910.2	2803.0	2658.5
35°	2607.2	2628.9	2675.6	2737.7	2754.8	2781.2	2810.7	2824.7	2762.6	2610.3	2447.2
37.5°	2524.8	2557.5	2611.8	2683.3	2702.0	2719.1	2726.8	2688.0	2563.7	2399.0	2229.6
40°	2430.1	2479.8	2538.8	2618.1	2636.7	2636.7	2608.7	2526.4	2369.5	2153.5	1965.5
42.5°	2315.1	2375.7	2450.3	2529.5	2548.1	2526.4	2459.6	2315.1	2136.4	1895.6	1696.7
45°	2175.2	2256.0	2339.9	2422.3	2431.6	2383.4	2263.8	2080.5	1859.8	1636.1	1446.5
47.5°	2009.0	2114.6	2206.3	2299.5	2287.1	2206.3	2046.3	1838.1	1605.0	1393.7	1241.4
50°	1822.5	1946.8	2049.4	2138.0	2111.5	1999.7	1811.7	1594.1	1362.6	1182.4	1056.5
52.5°	1623.7	1766.6	1869.2	1940.6	1904.9	1771.3	1564.6	1356.4	1166.9	1002.2	918.3
55°	1417.0	1561.5	1667.2	1723.1	1676.5	1532.0	1328.5	1138.9	960.2	853.0	803.3
57.5°	1216.6	1351.8	1451.2	1496.3	1437.2	1292.7	1104.7	944.7	815.7	725.6	700.7
60°	1023.9	1134.2	1229.0	1263.2	1199.5	1065.9	904.3	776.9	682.1	619.9	607.5
62.5°	845.2	935.4	1009.9	1036.3	974.2	870.1	730.3	635.5	568.7	537.6	522.1
65°	697.6	750.5	826.6	821.9	784.6	688.3	585.8	519.0	475.4	455.2	445.9
67.5°	548.5	596.6	644.8	651.0	604.4	537.6	470.8	422.6	399.3	388.4	383.8
70°	424.2	459.9	489.4	481.7	456.8	414.9	372.9	346.5	337.2	332.5	332.5
72.5°	329.4	348.0	362.0	352.7	337.2	315.4	295.2	284.3	285.9	289.0	292.1
75°	254.8	259.5	262.6	253.3	250.2	236.2	234.6	236.2	245.5	254.8	259.5
77.5°	195.8	189.6	184.9	175.6	177.1	175.6	183.3	195.8	209.8	223.7	236.2
80°	150.7	136.7	125.9	116.5	121.2	129.0	144.5	163.1	181.8	197.3	212.9
82.5°	116.5	96.3	80.8	71.5	80.8	93.2	113.4	136.7	158.5	175.6	192.7
85°	90.1	66.8	48.2	38.8	48.2	66.8	88.6	115.0	138.3	156.9	174.0
87.5°	69.9	48.2	26.4	15.5	26.4	46.6	71.5	96.3	119.6	141.4	158.5
90°	55.9	32.6	12.4	3.1	14.0	32.6	55.9	80.8	104.1	127.4	144.5
92.5°	45.1	23.3	6.2	0.0	7.8	24.9	46.6	69.9	93.2	115.0	132.1
95°	37.3	18.6	4.7	0.0	6.2	18.6	37.3	60.6	82.3	104.1	118.1
97.5°	31.1	14.0	3.1	0.0	3.1	15.5	31.1	51.3	73.0	93.2	107.2
100°	26.4	12.4	3.1	0.0	3.1	12.4	26.4	45.1	63.7	82.3	96.3
102.5°	21.8	9.3	1.6	1.6	1.6	9.3	23.3	38.8	55.9	73.0	87.0
105°	20.2	7.8	1.6	1.6	1.6	7.8	20.2	34.2	49.7	65.3	77.7
107.5°	17.1	6.2	1.6	1.6	1.6	6.2	17.1	29.5	45.1	59.0	69.9
110°	14.0	6.2	1.6	1.6	1.6	6.2	14.0	26.4	38.8	51.3	62.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-83SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	12.4	4.7	1.6	1.6	1.6	4.7	12.4	23.3	34.2	46.6	55.9
115°	10.9	4.7	1.6	1.6	1.6	4.7	10.9	20.2	29.5	40.4	49.7
117.5°	9.3	4.7	1.6	1.6	1.6	3.1	9.3	17.1	26.4	35.7	45.1
120°	7.8	3.1	1.6	1.6	1.6	3.1	7.8	15.5	23.3	31.1	38.8
122.5°	7.8	3.1	1.6	1.6	1.6	3.1	6.2	12.4	20.2	26.4	34.2
125°	6.2	3.1	1.6	1.6	1.6	1.6	6.2	10.9	17.1	23.3	29.5
127.5°	6.2	3.1	1.6	1.6	1.6	1.6	4.7	9.3	14.0	20.2	26.4
130°	4.7	3.1	1.6	1.6	1.6	1.6	3.1	7.8	12.4	17.1	21.8
132.5°	4.7	3.1	1.6	1.6	1.6	1.6	3.1	6.2	9.3	14.0	18.6
135°	4.7	1.6	1.6	1.6	1.6	1.6	1.6	4.7	7.8	10.9	14.0
137.5°	3.1	1.6	1.6	1.6	1.6	1.6	1.6	3.1	6.2	7.8	12.4
140°	3.1	1.6	1.6	1.6	1.6	1.6	1.6	3.1	4.7	6.2	9.3
142.5°	3.1	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.1	4.7	7.8
145°	3.1	1.6	1.6	3.1	3.1	1.6	1.6	3.1	3.1	4.7	6.2
147.5°	3.1	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.1	3.1	4.7
150°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.7
152.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
155°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
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-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3008.1	3008.1	3008.1	3008.1	3008.1	3008.1	3008.1	3008.1	3008.1	3008.1	3008.1
2.5°	3023.6	2987.9	3006.5	3000.3	3006.5	3022.0	3020.5	3015.8	3018.9	3011.2	3003.4
5°	3017.4	2981.6	3000.3	2992.5	3000.3	3015.8	3012.7	3008.1	3012.7	3003.4	2995.6
7.5°	3009.6	2977.0	2998.7	2997.2	3011.2	3031.4	3032.9	3032.9	3043.8	3029.8	3023.6
10°	3009.6	2992.5	3022.0	3032.9	3068.6	3095.1	3098.2	3104.4	3123.0	3119.9	3104.4
12.5°	3042.2	3039.1	3082.6	3109.0	3141.7	3179.0	3199.2	3205.4	3217.8	3208.5	3202.3
15°	3084.2	3099.7	3147.9	3177.4	3213.1	3241.1	3245.8	3248.9	3258.2	3244.2	3233.3
17.5°	3140.1	3149.4	3188.3	3200.7	3224.0	3228.7	3222.5	3206.9	3206.9	3175.9	3166.5
20°	3166.5	3161.9	3177.4	3157.2	3147.9	3119.9	3093.5	3064.0	3062.4	3029.8	3026.7
22.5°	3143.2	3112.2	3079.5	3029.8	3008.1	2967.7	2931.9	2914.8	2904.0	2862.0	2851.1
25°	3060.9	2984.7	2936.6	2877.5	2824.7	2778.1	2743.9	2708.2	2674.0	2639.8	2624.3
27.5°	2917.9	2846.5	2768.8	2686.4	2613.4	2541.9	2484.4	2448.7	2416.1	2371.0	2347.7
30°	2742.4	2642.9	2557.5	2478.2	2358.6	2271.6	2223.4	2151.9	2127.1	2106.9	2063.4
32.5°	2535.7	2416.1	2299.5	2192.3	2069.6	1988.8	1925.1	1872.3	1856.7	1803.9	1791.5
35°	2307.3	2150.4	2018.3	1912.7	1824.1	1726.2	1673.4	1637.6	1606.6	1570.8	1564.6
37.5°	2038.5	1897.1	1748.0	1654.7	1584.8	1500.9	1460.5	1435.7	1421.7	1395.3	1390.6
40°	1768.2	1626.8	1524.2	1431.0	1387.5	1342.4	1312.9	1302.0	1295.8	1286.5	1277.2
42.5°	1522.7	1398.4	1325.3	1263.2	1244.6	1222.8	1215.0	1221.2	1215.0	1211.9	1210.4
45°	1314.5	1219.7	1168.4	1149.8	1145.1	1138.9	1145.1	1156.0	1157.5	1154.4	1154.4
47.5°	1124.9	1079.9	1058.1	1061.2	1069.0	1073.6	1084.5	1098.5	1101.6	1093.8	1096.9
50°	1000.6	974.2	969.5	982.0	999.1	1005.3	1017.7	1028.6	1027.0	1023.9	1020.8
52.5°	884.1	876.3	888.7	901.2	919.8	922.9	927.6	932.2	930.7	924.5	921.4
55°	786.2	792.4	803.3	807.9	821.9	820.4	821.9	821.9	815.7	812.6	807.9
57.5°	697.6	699.2	705.4	707.0	714.7	711.6	710.1	707.0	697.6	696.1	691.4
60°	607.5	604.4	618.4	607.5	613.7	607.5	606.0	598.2	588.9	587.3	584.2
62.5°	522.1	515.8	525.2	520.5	523.6	517.4	514.3	505.0	497.2	495.6	494.1
65°	445.9	442.8	452.1	450.6	453.7	445.9	442.8	436.6	430.4	428.8	427.3
67.5°	382.2	390.0	394.7	394.7	397.8	396.2	388.4	386.9	385.3	379.1	379.1
70°	335.6	340.3	349.6	351.1	349.6	352.7	346.5	344.9	343.4	340.3	338.7
72.5°	298.3	304.5	313.9	315.4	313.9	313.9	310.7	309.2	309.2	304.5	304.5
75°	268.8	276.6	284.3	284.3	284.3	281.2	278.1	278.1	275.0	273.5	270.4
77.5°	243.9	253.3	259.5	257.9	256.4	253.3	253.3	248.6	243.9	243.9	240.8
80°	225.3	231.5	236.2	234.6	233.1	228.4	226.8	222.2	219.1	214.4	214.4
82.5°	205.1	212.9	216.0	214.4	211.3	206.6	205.1	202.0	198.9	197.3	194.2
85°	188.0	195.8	197.3	194.2	191.1	188.0	186.4	184.9	183.3	180.2	180.2
87.5°	170.9	178.7	178.7	177.1	174.0	172.5	170.9	169.4	167.8	166.3	164.7
90°	156.9	163.1	163.1	161.6	160.0	158.5	156.9	155.4	153.8	152.3	152.3
92.5°	142.9	149.2	149.2	147.6	146.1	144.5	144.5	142.9	141.4	139.8	138.3
95°	130.5	136.7	136.7	136.7	135.2	133.6	133.6	132.1	130.5	130.5	129.0
97.5°	118.1	124.3	124.3	124.3	122.7	121.2	121.2	119.6	119.6	119.6	118.1
100°	107.2	111.9	113.4	113.4	111.9	111.9	111.9	110.3	110.3	110.3	108.8
102.5°	96.3	101.0	104.1	104.1	104.1	102.5	102.5	102.5	102.5	102.5	101.0
105°	87.0	91.7	94.8	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
107.5°	79.2	83.9	87.0	88.6	90.1	90.1	91.7	91.7	91.7	91.7	91.7
110°	71.5	76.1	80.8	82.3	83.9	85.5	85.5	87.0	85.5	85.5	85.5



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-83SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	63.7	69.9	73.0	76.1	77.7	79.2	80.8	80.8	80.8	80.8	80.8
115°	57.5	63.7	66.8	69.9	73.0	74.6	74.6	76.1	76.1	76.1	74.6
117.5°	51.3	57.5	60.6	63.7	65.3	68.4	69.9	69.9	69.9	69.9	68.4
120°	46.6	51.3	54.4	57.5	60.6	62.1	63.7	63.7	63.7	63.7	63.7
122.5°	40.4	45.1	49.7	52.8	54.4	55.9	57.5	57.5	57.5	57.5	57.5
125°	35.7	40.4	43.5	46.6	48.2	51.3	51.3	51.3	51.3	51.3	51.3
127.5°	31.1	35.7	38.8	42.0	43.5	45.1	46.6	46.6	46.6	46.6	46.6
130°	26.4	31.1	34.2	37.3	38.8	40.4	40.4	42.0	42.0	42.0	42.0
132.5°	23.3	26.4	29.5	32.6	34.2	35.7	35.7	37.3	37.3	37.3	37.3
135°	18.6	23.3	24.9	28.0	29.5	31.1	31.1	32.6	32.6	32.6	32.6
137.5°	15.5	18.6	21.8	24.9	26.4	26.4	28.0	28.0	29.5	29.5	29.5
140°	12.4	14.0	18.6	20.2	21.8	23.3	24.9	24.9	24.9	24.9	24.9
142.5°	9.3	12.4	14.0	17.1	18.6	20.2	21.8	21.8	21.8	21.8	21.8
145°	7.8	9.3	10.9	14.0	15.5	17.1	18.6	18.6	18.6	18.6	18.6
147.5°	6.2	7.8	9.3	10.9	12.4	14.0	15.5	15.5	15.5	15.5	15.5
150°	4.7	6.2	7.8	7.8	9.3	10.9	12.4	14.0	14.0	14.0	14.0
152.5°	4.7	4.7	6.2	6.2	7.8	9.3	10.9	10.9	10.9	10.9	10.9
155°	3.1	4.7	4.7	4.7	6.2	6.2	7.8	9.3	9.3	9.3	9.3
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-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3008.1	3008.1	3008.1	3008.1	3008.1	3008.1	3008.1	3008.1	3008.1	3008.1	3008.1
2.5°	3008.1	3014.3	3011.2	3006.5	3004.9	3012.7	3004.9	2969.2	2983.2	2984.7	2995.6
5°	3003.4	3008.1	3004.9	3001.8	2997.2	3006.5	2997.2	2959.9	2973.9	2975.4	2986.3
7.5°	3034.5	3036.0	3036.0	3028.3	3015.8	3020.5	3008.1	2966.1	2973.9	2973.9	2981.6
10°	3112.2	3115.3	3119.9	3099.7	3084.2	3071.8	3054.7	3003.4	3001.8	2989.4	2989.4
12.5°	3213.1	3205.4	3197.6	3188.3	3175.9	3160.3	3135.5	3074.9	3054.7	3034.5	3014.3
15°	3242.7	3239.6	3238.0	3233.3	3225.6	3220.9	3202.3	3141.7	3112.2	3087.3	3051.6
17.5°	3165.0	3171.2	3191.4	3192.9	3202.3	3220.9	3217.8	3175.9	3149.4	3138.6	3095.1
20°	3025.1	3026.7	3051.6	3062.4	3102.8	3133.9	3157.2	3152.6	3146.3	3158.8	3126.1
22.5°	2857.3	2868.2	2894.6	2911.7	2950.6	2986.3	3023.6	3043.8	3076.4	3127.7	3121.5
25°	2628.9	2642.9	2680.2	2708.2	2762.6	2816.9	2866.7	2902.4	2941.2	3039.1	3071.8
27.5°	2355.5	2377.2	2425.4	2453.4	2529.5	2585.4	2656.9	2726.8	2781.2	2893.1	2959.9
30°	2068.0	2086.7	2138.0	2176.8	2242.1	2318.2	2408.3	2507.7	2597.9	2711.3	2795.2
32.5°	1799.2	1819.4	1861.4	1895.6	1968.6	2032.3	2131.7	2254.5	2338.4	2495.3	2607.2
35°	1564.6	1583.3	1612.8	1642.3	1702.9	1768.2	1853.6	1973.3	2080.5	2243.6	2385.0
37.5°	1399.9	1403.0	1420.1	1437.2	1482.3	1532.0	1598.8	1704.5	1803.9	1979.5	2134.8
40°	1281.8	1281.8	1291.2	1295.8	1316.0	1345.5	1387.5	1469.8	1552.2	1685.8	1875.4
42.5°	1208.8	1205.7	1205.7	1207.3	1205.7	1219.7	1244.6	1283.4	1356.4	1466.7	1614.3
45°	1154.4	1148.2	1143.6	1132.7	1126.5	1126.5	1128.0	1142.0	1184.0	1255.4	1375.1
47.5°	1093.8	1092.3	1084.5	1072.1	1061.2	1053.4	1041.0	1036.3	1048.8	1089.2	1170.0
50°	1023.9	1016.1	1008.4	999.1	986.6	978.9	955.6	957.1	946.2	964.9	1006.8
52.5°	921.4	915.2	912.0	904.3	899.6	896.5	877.9	859.2	854.6	857.7	873.2
55°	807.9	811.1	798.6	804.8	803.3	789.3	781.5	767.6	762.9	761.3	769.1
57.5°	689.9	693.0	685.2	691.4	691.4	683.6	679.0	679.0	668.1	658.8	669.7
60°	582.7	576.4	581.1	588.9	588.9	584.2	581.1	581.1	573.3	570.2	578.0
62.5°	495.6	489.4	494.1	501.9	503.4	500.3	497.2	497.2	487.9	487.9	494.1
65°	428.8	430.4	428.8	435.0	435.0	436.6	433.5	430.4	419.5	424.2	422.6
67.5°	380.7	379.1	379.1	385.3	383.8	386.9	383.8	379.1	371.3	365.1	363.6
70°	340.3	338.7	338.7	341.8	343.4	343.4	341.8	338.7	327.8	321.6	317.0
72.5°	304.5	303.0	304.5	306.1	307.6	309.2	307.6	304.5	295.2	287.4	279.7
75°	271.9	270.4	275.0	275.0	276.6	276.6	278.1	276.6	268.8	259.5	250.2
77.5°	239.3	240.8	245.5	247.0	250.2	251.7	253.3	253.3	245.5	237.7	225.3
80°	212.9	216.0	219.1	220.6	223.7	228.4	230.0	231.5	225.3	217.5	203.5
82.5°	194.2	195.8	198.9	200.4	205.1	206.6	208.2	211.3	208.2	200.4	184.9
85°	178.7	180.2	183.3	183.3	186.4	189.6	191.1	192.7	191.1	183.3	167.8
87.5°	164.7	166.3	167.8	169.4	170.9	172.5	174.0	175.6	174.0	166.3	152.3
90°	152.3	152.3	153.8	153.8	155.4	156.9	160.0	160.0	158.5	152.3	138.3
92.5°	138.3	139.8	139.8	141.4	142.9	144.5	146.1	146.1	144.5	138.3	125.9
95°	129.0	129.0	130.5	130.5	132.1	132.1	133.6	133.6	132.1	125.9	113.4
97.5°	118.1	118.1	118.1	118.1	119.6	119.6	121.2	121.2	119.6	113.4	102.5
100°	108.8	108.8	108.8	108.8	108.8	110.3	110.3	110.3	108.8	102.5	91.7
102.5°	101.0	101.0	101.0	101.0	101.0	101.0	101.0	101.0	97.9	93.2	82.3
105°	96.3	96.3	96.3	94.8	94.8	94.8	93.2	93.2	88.6	83.9	74.6
107.5°	90.1	90.1	90.1	88.6	88.6	87.0	85.5	85.5	80.8	76.1	66.8
110°	85.5	85.5	85.5	83.9	82.3	80.8	79.2	77.7	73.0	66.8	59.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-83SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	80.8	80.8	79.2	79.2	77.7	76.1	73.0	71.5	66.8	60.6	52.8
115°	74.6	74.6	74.6	73.0	71.5	69.9	68.4	65.3	60.6	54.4	46.6
117.5°	68.4	68.4	68.4	66.8	65.3	63.7	62.1	59.0	54.4	48.2	42.0
120°	62.1	62.1	62.1	60.6	59.0	57.5	55.9	52.8	48.2	43.5	35.7
122.5°	57.5	57.5	55.9	54.4	52.8	51.3	49.7	46.6	43.5	37.3	31.1
125°	51.3	51.3	49.7	49.7	48.2	46.6	45.1	42.0	37.3	32.6	28.0
127.5°	46.6	45.1	45.1	45.1	43.5	42.0	38.8	37.3	32.6	28.0	23.3
130°	40.4	40.4	40.4	38.8	38.8	37.3	34.2	31.1	28.0	24.9	20.2
132.5°	35.7	35.7	35.7	35.7	34.2	32.6	29.5	28.0	24.9	20.2	17.1
135°	32.6	32.6	31.1	31.1	29.5	28.0	26.4	23.3	20.2	17.1	14.0
137.5°	28.0	28.0	28.0	26.4	26.4	24.9	21.8	20.2	18.6	15.5	12.4
140°	24.9	24.9	23.3	23.3	21.8	21.8	20.2	17.1	15.5	12.4	10.9
142.5°	21.8	21.8	20.2	20.2	18.6	18.6	17.1	15.5	12.4	10.9	7.8
145°	18.6	18.6	17.1	17.1	17.1	15.5	14.0	12.4	10.9	9.3	7.8
147.5°	15.5	15.5	15.5	14.0	14.0	12.4	12.4	10.9	9.3	7.8	6.2
150°	14.0	14.0	12.4	12.4	12.4	10.9	9.3	9.3	7.8	6.2	4.7
152.5°	10.9	10.9	10.9	10.9	9.3	9.3	7.8	7.8	6.2	4.7	4.7
155°	9.3	9.3	9.3	7.8	7.8	7.8	6.2	6.2	4.7	4.7	3.1
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-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3008.1	3008.1	3008.1	3008.1	3008.1	3008.1	3008.1
2.5°	2991.0	2989.4	3003.4	3001.8	2983.2	3011.2	3029.8
5°	2983.2	2981.6	2994.1	2997.2	2977.0	3006.5	3026.7
7.5°	2977.0	2975.4	2989.4	2994.1	2973.9	3000.3	3022.0
10°	2978.5	2970.8	2983.2	2986.3	2967.7	2995.6	3014.3
12.5°	2989.4	2970.8	2975.4	2975.4	2958.3	2983.2	3003.4
15°	3015.8	2977.0	2970.8	2966.1	2944.3	2967.7	2987.9
17.5°	3045.3	2992.5	2970.8	2955.2	2928.8	2949.0	2970.8
20°	3074.9	3009.6	2973.9	2949.0	2913.3	2931.9	2947.5
22.5°	3088.8	3025.1	2977.0	2939.7	2894.6	2904.0	2921.0
25°	3070.2	3018.9	2970.8	2925.7	2871.3	2872.9	2886.9
27.5°	3001.8	2987.9	2956.8	2911.7	2852.7	2844.9	2855.8
30°	2885.3	2924.2	2925.7	2893.1	2830.9	2815.4	2820.0
32.5°	2722.2	2809.2	2860.4	2854.2	2799.9	2778.1	2781.2
35°	2534.2	2642.9	2754.8	2792.1	2753.2	2736.1	2729.9
37.5°	2308.9	2454.9	2604.1	2695.7	2689.5	2678.7	2672.4
40°	2060.3	2235.8	2413.0	2559.0	2604.1	2604.1	2607.2
42.5°	1794.6	1999.7	2193.9	2378.8	2484.4	2507.7	2517.1
45°	1538.2	1744.9	1956.2	2169.0	2310.4	2383.4	2409.9
47.5°	1305.1	1513.3	1713.8	1946.8	2134.8	2229.6	2271.6
50°	1106.3	1261.6	1473.0	1704.5	1909.6	2026.1	2108.4
52.5°	941.6	1062.8	1247.7	1463.6	1670.3	1830.3	1906.4
55°	803.3	885.6	1042.6	1229.0	1426.3	1592.6	1681.2
57.5°	686.8	752.0	859.2	1014.6	1180.8	1345.5	1440.3
60°	584.2	629.3	702.3	825.0	966.4	1107.8	1199.5
62.5°	495.6	525.2	573.3	663.4	773.8	884.1	969.5
65°	427.3	439.7	466.1	522.1	606.0	689.9	762.9
67.5°	360.5	368.2	388.4	422.6	464.6	525.2	573.3
70°	310.7	310.7	312.3	332.5	354.3	393.1	427.3
72.5°	270.4	265.7	256.4	261.0	265.7	287.4	309.2
75°	237.7	226.8	211.3	205.1	202.0	205.1	217.5
77.5°	209.8	194.2	175.6	160.0	147.6	142.9	153.8
80°	186.4	167.8	146.1	125.9	105.7	94.8	99.4
82.5°	167.8	144.5	121.2	97.9	74.6	59.0	59.0
85°	147.6	125.9	101.0	76.1	52.8	32.6	29.5
87.5°	133.6	110.3	83.9	60.6	37.3	17.1	9.3
90°	119.6	96.3	71.5	48.2	26.4	7.8	0.0
92.5°	107.2	85.5	62.1	38.8	18.6	4.7	0.0
95°	96.3	76.1	52.8	32.6	15.5	3.1	1.6
97.5°	85.5	66.8	46.6	26.4	10.9	3.1	1.6
100°	77.7	59.0	40.4	21.8	9.3	1.6	1.6
102.5°	68.4	52.8	34.2	18.6	7.8	1.6	1.6
105°	60.6	46.6	29.5	15.5	6.2	1.6	1.6
107.5°	54.4	40.4	26.4	14.0	6.2	1.6	1.6
110°	48.2	35.7	23.3	12.4	4.7	1.6	1.6



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-83SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	43.5	31.1	20.2	10.9	3.1	1.6	1.6
115°	37.3	28.0	17.1	9.3	3.1	1.6	1.6
117.5°	32.6	23.3	15.5	7.8	3.1	1.6	1.6
120°	28.0	20.2	12.4	6.2	1.6	1.6	1.6
122.5°	24.9	17.1	10.9	6.2	1.6	1.6	1.6
125°	21.8	15.5	9.3	4.7	1.6	1.6	1.6
127.5°	18.6	12.4	7.8	3.1	1.6	1.6	1.6
130°	15.5	10.9	6.2	3.1	1.6	1.6	1.6
132.5°	12.4	9.3	6.2	3.1	1.6	1.6	1.6
135°	10.9	7.8	4.7	3.1	1.6	1.6	1.6
137.5°	9.3	6.2	3.1	3.1	3.1	1.6	1.6
140°	7.8	4.7	3.1	3.1	3.1	3.1	1.6
142.5°	6.2	4.7	3.1	3.1	3.1	3.1	1.6
145°	4.7	3.1	3.1	3.1	3.1	3.1	1.6
147.5°	4.7	3.1	3.1	3.1	3.1	3.1	1.6
150°	3.1	3.1	3.1	3.1	3.1	3.1	3.1
152.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1
155°	3.1	3.1	3.1	3.1	3.1	3.1	3.1
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)