

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-LD5-91SL-LN-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 (P33519)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNLED-LD5-91SL-LN-UNV-L935-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

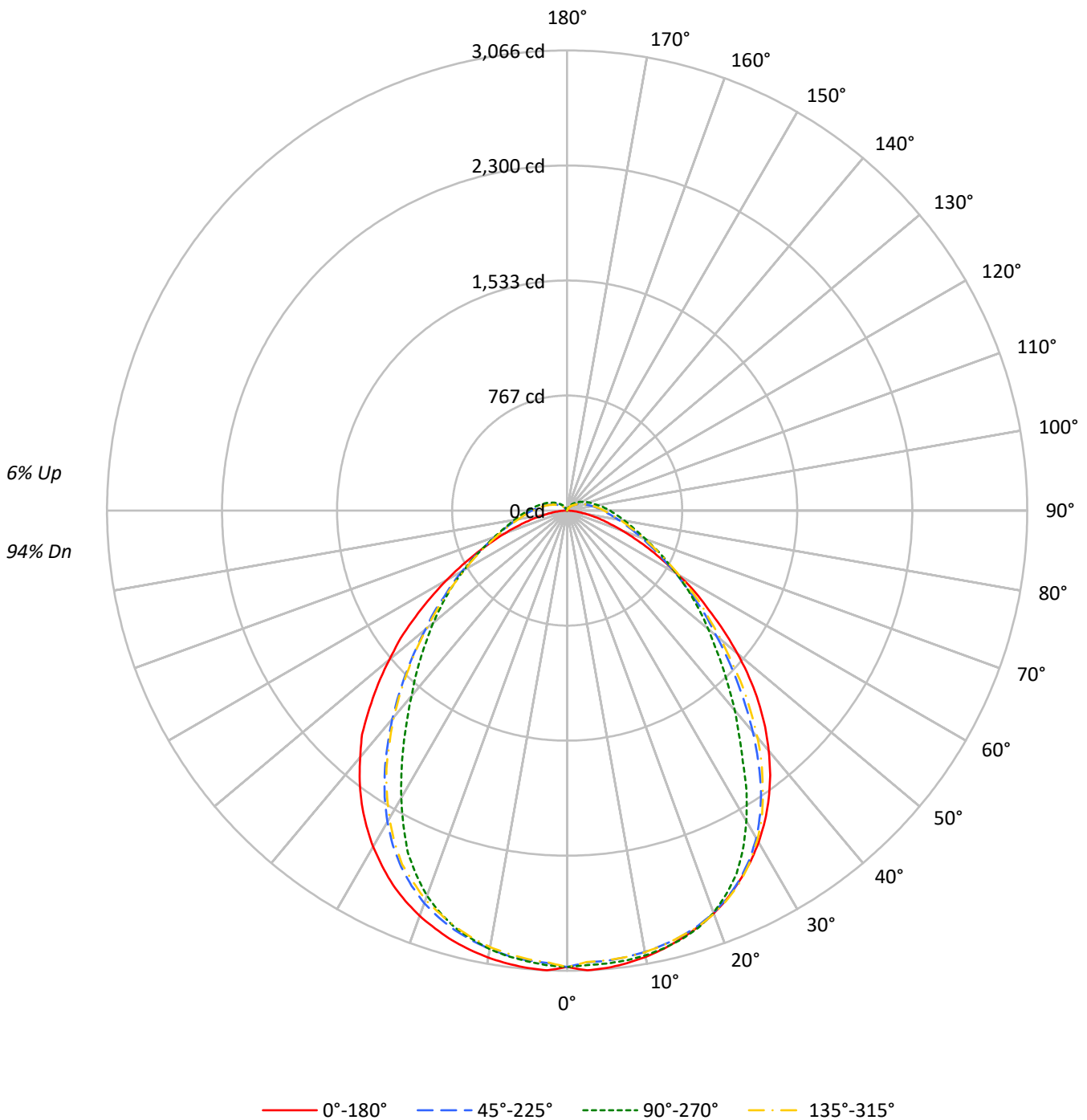
Lumens per Lamp: N/A
Luminaire Lumens: 7696.0 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 69
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12287	12287	12287	12287
5°	12392	11896	12392	11843
10°	12354	11580	12374	11419
15°	12291	11234	12347	10942
20°	12215	10789	12287	10334
25°	12038	10129	12171	9532
30°	11803	9159	11957	8479
35°	11426	7971	11647	7422
40°	10877	6971	11164	6468
45°	10145	6060	10474	5713
50°	9136	5325	9538	5056
55°	7930	4702	8507	4464
60°	6699	4129	7305	3891
65°	5525	3651	6081	3385
70°	4434	3239	4965	2996
75°	3528	2991	3972	2752
80°	2610	2886	3076	2637
85°	1711	2902	2301	2667



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.3	3.7
10°-20°	826.7	10.7
20°-30°	1225.2	15.9
30°-40°	1361.2	17.7
40°-50°	1233.9	16.0
50°-60°	956.1	12.4
60°-70°	649.3	8.4
70°-80°	413.1	5.4
80°-90°	264.1	3.4
90°-100°	178.1	2.3
100°-110°	122.0	1.6
110°-120°	81.4	1.1
120°-130°	50.6	0.7
130°-140°	28.0	0.4
140°-150°	13.1	0.2
150°-160°	4.8	0.1
160°-170°	0.3	0.0
170°-180°	0.0	0.0
0°-30°	2340.2	30.4
0°-40°	3701.4	48.1
0°-60°	5891.4	76.6
0°-90°	7217.8	93.8
90°-120°	381.4	5.0
90°-150°	473.1	6.1
90°-180°	478.0	6.2
0°-180°	7696.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3041	3041	3041	3041	3041	
5°	3059	3029	3059	3016	3059	291
15°	2951	2956	2964	2879	2951	833
25°	2720	2670	2750	2512	2720	1253
35°	2342	2041	2387	1900	2342	1461
45°	1803	1459	1862	1375	1803	1385
55°	1151	1025	1234	974	1151	1036
65°	597	689	657	639	597	599
75°	239	460	269	423	239	258
85°	44	331	58	304	44	52
90°	0	286	3	261	0	3
95°	2	244	0	228	2	1
105°	2	179	0	169	2	2
115°	2	136	0	126	2	2
125°	2	100	2	89	2	2
135°	2	70	2	57	2	1
145°	2	45	2	32	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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CATALOG NUMBER: 8SNLED-LD5-91SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3041.0	3041.0	3041.0	3041.0	3041.0	3041.0	3041.0	3041.0	3041.0	3041.0	3041.0
2.5°	3066.1	3062.8	3059.4	3054.4	3059.4	3072.8	3064.4	3046.0	3042.7	3012.6	3026.0
5°	3059.4	3054.4	3051.0	3046.0	3052.7	3069.4	3061.1	3044.4	3039.3	3010.9	3026.0
7.5°	3042.7	3039.3	3034.3	3034.3	3041.0	3057.7	3051.0	3032.6	3029.3	3000.9	3017.6
10°	3019.3	3017.6	3014.2	3014.2	3020.9	3041.0	3032.6	3015.9	3012.6	2985.8	3004.2
12.5°	2989.2	2990.8	2985.8	2985.8	2995.8	3015.9	3009.2	2990.8	2987.5	2964.1	2982.5
15°	2950.7	2952.4	2949.0	2950.7	2960.7	2984.1	2975.8	2959.0	2955.7	2937.3	2952.4
17.5°	2907.2	2908.9	2908.9	2907.2	2918.9	2942.3	2935.6	2920.6	2915.6	2900.5	2918.9
20°	2857.0	2857.0	2857.0	2857.0	2870.4	2893.8	2885.4	2873.7	2863.7	2852.0	2867.0
22.5°	2795.1	2793.4	2795.1	2800.1	2813.5	2831.9	2826.9	2813.5	2798.5	2791.8	2803.5
25°	2719.8	2724.9	2726.5	2731.6	2748.3	2763.3	2758.3	2744.9	2721.5	2716.5	2719.8
27.5°	2641.2	2644.6	2649.6	2647.9	2671.3	2686.4	2676.4	2664.6	2631.2	2626.2	2622.8
30°	2552.6	2557.6	2560.9	2559.3	2577.7	2594.4	2584.4	2569.3	2524.1	2520.8	2494.0
32.5°	2452.2	2457.2	2460.6	2460.6	2487.3	2494.0	2475.6	2453.9	2405.4	2393.7	2370.2
35°	2341.8	2346.8	2348.5	2348.5	2375.3	2373.6	2350.2	2320.1	2266.5	2251.5	2211.3
37.5°	2223.0	2226.4	2228.1	2238.1	2249.8	2239.8	2209.7	2171.2	2131.0	2089.2	2045.7
40°	2089.2	2094.2	2097.6	2104.3	2116.0	2104.3	2060.8	2014.0	1970.5	1923.6	1880.1
42.5°	1952.1	1967.1	1963.8	1962.1	1968.8	1937.0	1903.6	1850.0	1806.5	1758.0	1714.5
45°	1803.2	1801.5	1809.9	1813.2	1811.6	1784.8	1738.0	1689.5	1646.0	1595.8	1559.0
47.5°	1646.0	1644.3	1651.0	1654.3	1644.3	1615.9	1579.1	1523.9	1487.1	1443.6	1415.1
50°	1480.4	1480.4	1490.4	1480.4	1475.3	1446.9	1416.8	1361.6	1333.2	1294.7	1278.0
52.5°	1314.8	1329.8	1319.8	1316.4	1311.4	1283.0	1259.6	1214.4	1191.0	1174.3	1154.2
55°	1150.8	1167.6	1160.9	1155.9	1154.2	1130.8	1109.0	1075.6	1060.5	1048.8	1037.1
57.5°	1012.0	1010.3	1007.0	1002.0	1003.6	985.2	963.5	945.1	938.4	933.4	936.7
60°	851.4	864.8	859.8	861.5	863.1	859.8	841.4	829.7	831.3	833.0	838.0
62.5°	719.3	731.0	739.3	732.7	736.0	741.0	731.0	727.6	734.3	741.0	747.7
65°	597.2	608.9	617.2	615.6	625.6	635.6	634.0	637.3	652.4	660.7	669.1
67.5°	486.8	498.5	510.2	511.9	526.9	542.0	548.7	560.4	577.1	588.8	598.8
70°	391.4	401.5	414.8	423.2	443.3	463.3	475.1	498.5	508.5	525.2	531.9
72.5°	306.1	314.5	332.9	352.9	369.7	394.8	418.2	438.3	453.3	471.7	480.1
75°	239.2	242.5	262.6	286.0	309.5	337.9	363.0	384.7	404.8	423.2	436.6
77.5°	175.6	180.7	199.1	230.8	257.6	287.7	316.1	339.6	361.3	379.7	398.1
80°	122.1	132.1	152.2	184.0	214.1	247.6	274.3	301.1	324.5	342.9	361.3
82.5°	78.6	87.0	115.4	147.2	179.0	212.4	240.9	267.6	292.7	312.8	329.5
85°	43.5	55.2	83.6	117.1	148.9	182.3	212.4	239.2	264.3	282.7	299.4
87.5°	16.7	33.5	60.2	92.0	123.8	155.6	187.3	212.4	237.5	257.6	272.7
90°	0.0	20.1	45.2	76.9	108.7	140.5	170.6	197.4	220.8	239.2	255.9
92.5°	1.7	13.4	35.1	61.9	92.0	122.1	150.5	177.3	200.7	219.1	234.2
95°	1.7	10.0	28.4	53.5	80.3	108.7	135.5	160.6	182.3	200.7	215.8
97.5°	1.7	6.7	23.4	46.8	70.3	98.7	123.8	147.2	167.3	185.7	197.4
100°	1.7	6.7	20.1	40.1	63.6	88.7	112.1	135.5	153.9	168.9	182.3
102.5°	1.7	5.0	16.7	35.1	56.9	78.6	102.0	123.8	140.5	155.6	168.9
105°	1.7	5.0	15.1	30.1	50.2	71.9	92.0	112.1	130.5	143.9	155.6
107.5°	1.7	3.3	13.4	25.1	43.5	65.2	85.3	102.0	118.8	132.1	143.9
110°	1.7	3.3	11.7	23.4	38.5	58.5	76.9	93.7	108.7	122.1	132.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.7	3.3	10.0	21.7	35.1	51.9	70.3	85.3	100.4	112.1	122.1
115°	1.7	3.3	10.0	20.1	31.8	45.2	61.9	78.6	90.3	103.7	112.1
117.5°	1.7	3.3	8.4	16.7	30.1	41.8	56.9	70.3	83.6	95.3	103.7
120°	1.7	3.3	8.4	15.1	26.8	38.5	50.2	63.6	76.9	85.3	93.7
122.5°	1.7	3.3	6.7	15.1	23.4	35.1	45.2	56.9	68.6	78.6	87.0
125°	1.7	3.3	6.7	13.4	21.7	31.8	41.8	50.2	61.9	70.3	78.6
127.5°	1.7	3.3	6.7	11.7	20.1	28.4	38.5	46.8	55.2	63.6	70.3
130°	1.7	3.3	5.0	10.0	18.4	25.1	33.5	43.5	50.2	56.9	63.6
132.5°	1.7	3.3	5.0	10.0	15.1	21.7	30.1	38.5	45.2	51.9	56.9
135°	1.7	3.3	5.0	8.4	13.4	20.1	25.1	33.5	40.1	46.8	51.9
137.5°	1.7	3.3	5.0	8.4	11.7	16.7	21.7	28.4	35.1	40.1	46.8
140°	1.7	3.3	5.0	6.7	10.0	15.1	20.1	23.4	30.1	35.1	40.1
142.5°	1.7	3.3	5.0	6.7	10.0	13.4	16.7	20.1	25.1	30.1	35.1
145°	1.7	3.3	5.0	6.7	8.4	11.7	15.1	18.4	20.1	25.1	28.4
147.5°	1.7	3.3	5.0	6.7	6.7	10.0	13.4	15.1	18.4	20.1	23.4
150°	1.7	3.3	5.0	5.0	6.7	8.4	11.7	13.4	15.1	18.4	20.1
152.5°	1.7	3.3	5.0	5.0	6.7	8.4	10.0	11.7	13.4	15.1	16.7
155°	1.7	3.3	5.0	5.0	5.0	6.7	8.4	10.0	11.7	13.4	15.1
157.5°	3.3	3.3	3.3	5.0	5.0	6.7	6.7	8.4	10.0	10.0	11.7
160°	3.3	3.3	3.3	5.0	5.0	5.0	6.7	6.7	8.4	8.4	10.0
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°	3041.0	3041.0	3041.0	3041.0	3041.0	3041.0	3041.0	3041.0	3041.0	3041.0	3041.0
2.5°	3022.6	3027.6	3042.7	3042.7	3039.3	3036.0	3036.0	3031.0	3034.3	3041.0	3037.7
5°	3022.6	3027.6	3042.7	3042.7	3039.3	3036.0	3034.3	3029.3	3034.3	3041.0	3037.7
7.5°	3012.6	3019.3	3034.3	3034.3	3031.0	3029.3	3026.0	3022.6	3027.6	3034.3	3031.0
10°	2999.2	3005.9	3020.9	3020.9	3017.6	3017.6	3012.6	3009.2	3015.9	3020.9	3019.3
12.5°	2979.1	2987.5	3000.9	2999.2	2995.8	2997.5	2992.5	2985.8	2992.5	2997.5	2999.2
15°	2950.7	2960.7	2974.1	2970.8	2965.7	2969.1	2960.7	2955.7	2960.7	2970.8	2969.1
17.5°	2913.9	2920.6	2930.6	2930.6	2925.6	2922.2	2918.9	2913.9	2917.2	2923.9	2925.6
20°	2862.0	2870.4	2875.4	2870.4	2868.7	2863.7	2857.0	2852.0	2858.7	2868.7	2870.4
22.5°	2793.4	2795.1	2806.8	2795.1	2786.8	2785.1	2778.4	2768.4	2778.4	2786.8	2788.4
25°	2708.1	2716.5	2711.5	2691.4	2691.4	2678.0	2674.7	2669.7	2671.3	2686.4	2693.1
27.5°	2599.4	2602.8	2589.4	2572.6	2557.6	2549.2	2537.5	2539.2	2539.2	2559.3	2566.0
30°	2480.6	2462.2	2450.5	2423.8	2412.1	2392.0	2388.6	2388.6	2385.3	2395.3	2425.4
32.5°	2338.5	2313.4	2295.0	2269.9	2249.8	2229.7	2219.7	2224.7	2223.0	2248.1	2258.2
35°	2182.9	2167.8	2129.4	2097.6	2085.9	2055.8	2055.8	2040.7	2050.8	2079.2	2090.9
37.5°	2019.0	1995.6	1963.8	1928.7	1920.3	1896.9	1888.5	1880.1	1901.9	1906.9	1918.6
40°	1851.7	1830.0	1799.9	1766.4	1766.4	1738.0	1738.0	1738.0	1739.6	1749.7	1771.4
42.5°	1692.8	1669.4	1642.6	1619.2	1615.9	1594.1	1594.1	1592.4	1595.8	1604.1	1624.2
45°	1538.9	1520.5	1492.1	1480.4	1482.0	1458.6	1463.6	1458.6	1465.3	1473.7	1480.4
47.5°	1396.7	1385.0	1373.3	1356.6	1351.6	1349.9	1341.5	1334.8	1346.5	1346.5	1356.6
50°	1264.6	1257.9	1251.2	1241.2	1242.8	1236.1	1226.1	1226.1	1234.5	1236.1	1242.8
52.5°	1149.2	1140.8	1132.4	1134.1	1135.8	1132.4	1127.4	1122.4	1127.4	1130.8	1139.1
55°	1033.7	1027.1	1035.4	1032.1	1035.4	1032.1	1028.7	1025.4	1033.7	1028.7	1037.1
57.5°	930.0	936.7	940.1	933.4	938.4	935.1	936.7	931.7	938.4	941.7	940.1
60°	834.7	844.7	839.7	841.4	848.1	844.7	838.0	843.1	849.7	851.4	849.7
62.5°	747.7	759.4	764.4	761.1	762.8	759.4	764.4	757.7	766.1	769.5	764.4
65°	669.1	682.5	685.8	685.8	685.8	682.5	687.5	689.2	692.5	692.5	689.2
67.5°	602.2	613.9	617.2	620.6	617.2	613.9	613.9	615.6	622.3	625.6	622.3
70°	542.0	553.7	555.3	555.3	557.0	560.4	553.7	557.0	562.0	563.7	562.0
72.5°	490.1	501.8	505.2	503.5	505.2	506.8	506.8	503.5	508.5	511.9	511.9
75°	448.3	455.0	458.3	458.3	460.0	461.7	461.7	460.0	463.3	465.0	466.7
77.5°	409.8	414.8	419.9	419.9	421.5	419.9	423.2	423.2	424.9	426.5	428.2
80°	371.3	378.0	381.4	383.1	386.4	388.1	388.1	388.1	389.7	391.4	391.4
82.5°	341.2	346.3	351.3	356.3	356.3	358.0	358.0	358.0	359.6	359.6	361.3
85°	311.1	317.8	322.8	326.2	327.9	329.5	329.5	331.2	331.2	331.2	332.9
87.5°	284.4	292.7	296.1	299.4	301.1	304.4	304.4	304.4	306.1	306.1	306.1
90°	266.0	274.3	277.7	281.0	282.7	284.4	284.4	286.0	286.0	287.7	287.7
92.5°	244.2	252.6	259.3	259.3	260.9	264.3	262.6	262.6	264.3	266.0	266.0
95°	227.5	234.2	239.2	240.9	242.5	242.5	242.5	244.2	242.5	244.2	244.2
97.5°	207.4	214.1	219.1	222.5	224.1	224.1	224.1	225.8	224.1	225.8	225.8
100°	190.7	197.4	202.4	204.1	207.4	207.4	207.4	207.4	207.4	207.4	209.1
102.5°	177.3	184.0	187.3	189.0	190.7	192.4	192.4	192.4	192.4	194.0	194.0
105°	163.9	170.6	174.0	175.6	177.3	179.0	179.0	179.0	180.7	180.7	179.0
107.5°	152.2	157.2	160.6	163.9	165.6	165.6	167.3	167.3	167.3	167.3	167.3
110°	140.5	145.5	150.5	153.9	153.9	155.6	155.6	157.2	157.2	155.6	157.2



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-91SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	128.8	135.5	138.8	142.2	143.9	145.5	145.5	145.5	145.5	145.5	145.5
115°	118.8	125.5	128.8	132.1	133.8	135.5	135.5	135.5	135.5	135.5	135.5
117.5°	110.4	117.1	120.4	122.1	123.8	125.5	127.1	127.1	127.1	127.1	125.5
120°	102.0	107.1	110.4	113.7	115.4	117.1	117.1	117.1	117.1	117.1	117.1
122.5°	93.7	98.7	102.0	105.4	107.1	108.7	108.7	108.7	108.7	108.7	108.7
125°	85.3	90.3	93.7	97.0	98.7	100.4	100.4	100.4	100.4	100.4	100.4
127.5°	76.9	82.0	87.0	88.7	90.3	92.0	92.0	92.0	93.7	92.0	92.0
130°	68.6	73.6	78.6	80.3	82.0	83.6	85.3	85.3	85.3	85.3	83.6
132.5°	61.9	66.9	70.3	71.9	75.3	75.3	76.9	76.9	76.9	76.9	75.3
135°	56.9	60.2	63.6	65.2	68.6	68.6	68.6	70.3	70.3	68.6	66.9
137.5°	50.2	53.5	56.9	58.5	60.2	61.9	61.9	63.6	61.9	61.9	61.9
140°	46.8	48.5	51.9	53.5	55.2	55.2	55.2	56.9	56.9	55.2	55.2
142.5°	40.1	43.5	46.8	48.5	50.2	50.2	50.2	50.2	50.2	50.2	50.2
145°	33.5	38.5	40.1	43.5	43.5	45.2	45.2	45.2	45.2	45.2	43.5
147.5°	28.4	31.8	36.8	38.5	38.5	40.1	40.1	40.1	40.1	40.1	38.5
150°	21.7	25.1	30.1	33.5	33.5	35.1	35.1	35.1	35.1	33.5	33.5
152.5°	18.4	21.7	23.4	26.8	28.4	28.4	28.4	30.1	28.4	28.4	28.4
155°	16.7	18.4	20.1	21.7	23.4	25.1	25.1	25.1	25.1	23.4	23.4
157.5°	13.4	15.1	16.7	18.4	20.1	21.7	21.7	21.7	21.7	21.7	20.1
160°	10.0	11.7	13.4	13.4	15.1	16.7	18.4	16.7	16.7	16.7	16.7
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-91SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3041.0	3041.0	3041.0	3041.0	3041.0	3041.0	3041.0	3041.0	3041.0	3041.0	3041.0
2.5°	3034.3	3032.6	3037.7	3029.3	3004.2	3010.9	3007.6	3022.6	3026.0	3029.3	3044.4
5°	3034.3	3032.6	3036.0	3029.3	3002.5	3007.6	3004.2	3019.3	3022.6	3024.3	3039.3
7.5°	3027.6	3026.0	3031.0	3022.6	2994.2	3000.9	2995.8	3010.9	3012.6	3014.2	3027.6
10°	3014.2	3012.6	3015.9	3009.2	2980.8	2987.5	2980.8	2995.8	2995.8	2999.2	3009.2
12.5°	2994.2	2990.8	2997.5	2989.2	2957.4	2965.7	2962.4	2972.4	2974.1	2975.8	2985.8
15°	2965.7	2962.4	2967.4	2962.4	2934.0	2935.6	2930.6	2945.7	2947.3	2944.0	2954.0
17.5°	2923.9	2920.6	2930.6	2927.3	2898.8	2905.5	2903.8	2907.2	2912.2	2903.8	2917.2
20°	2872.1	2875.4	2878.8	2880.4	2858.7	2858.7	2857.0	2863.7	2868.7	2862.0	2872.1
22.5°	2795.1	2803.5	2813.5	2816.9	2801.8	2800.1	2810.2	2806.8	2811.8	2808.5	2815.2
25°	2698.1	2714.8	2724.9	2734.9	2726.5	2729.9	2744.9	2748.3	2748.3	2746.6	2753.3
27.5°	2577.7	2599.4	2617.8	2639.6	2631.2	2637.9	2663.0	2666.3	2673.0	2666.3	2679.7
30°	2433.8	2453.9	2489.0	2520.8	2524.1	2534.2	2569.3	2572.6	2591.0	2584.4	2589.4
32.5°	2290.0	2300.0	2340.1	2371.9	2392.0	2417.1	2455.6	2462.2	2487.3	2492.4	2492.4
35°	2109.3	2137.7	2174.5	2219.7	2244.8	2271.6	2323.4	2333.4	2370.2	2382.0	2395.3
37.5°	1957.1	1983.9	2007.3	2054.1	2099.3	2129.4	2171.2	2196.3	2234.8	2256.5	2273.2
40°	1794.8	1816.6	1841.7	1888.5	1927.0	1972.1	2014.0	2044.1	2092.6	2117.7	2139.4
42.5°	1640.9	1657.7	1684.4	1717.9	1758.0	1808.2	1848.4	1883.5	1935.3	1970.5	1995.6
45°	1503.8	1513.8	1537.2	1562.3	1597.5	1649.3	1687.8	1732.9	1774.8	1811.6	1841.7
47.5°	1375.0	1388.4	1400.1	1416.8	1448.6	1480.4	1525.5	1569.0	1610.8	1651.0	1681.1
50°	1256.2	1256.2	1274.6	1286.3	1308.1	1336.5	1371.6	1401.7	1453.6	1482.0	1520.5
52.5°	1140.8	1147.5	1157.5	1164.2	1180.9	1199.3	1227.8	1252.9	1296.4	1323.1	1359.9
55°	1038.8	1045.5	1050.5	1053.8	1063.9	1085.6	1095.6	1115.7	1145.8	1167.6	1199.3
57.5°	941.7	945.1	950.1	951.8	953.5	966.8	975.2	980.2	1010.3	1032.1	1058.8
60°	853.1	853.1	858.1	856.4	854.8	861.5	859.8	864.8	883.2	896.6	908.3
62.5°	769.5	769.5	771.1	767.8	766.1	766.1	759.4	764.4	769.5	771.1	779.5
65°	692.5	700.9	694.2	695.9	685.8	682.5	679.1	669.1	667.4	660.7	664.1
67.5°	623.9	630.6	623.9	623.9	615.6	608.9	600.5	583.8	578.8	565.4	562.0
70°	568.7	563.7	567.1	562.0	552.0	543.6	531.9	518.5	501.8	485.1	473.4
72.5°	515.2	515.2	511.9	506.8	501.8	485.1	471.7	456.7	436.6	414.8	398.1
75°	463.3	465.0	465.0	460.0	451.6	436.6	421.5	399.8	378.0	352.9	331.2
77.5°	426.5	426.5	426.5	418.2	409.8	396.4	378.0	354.6	331.2	301.1	276.0
80°	391.4	389.7	389.7	379.7	371.3	356.3	337.9	314.5	289.4	257.6	229.2
82.5°	363.0	361.3	358.0	349.6	337.9	322.8	304.4	279.3	252.6	224.1	189.0
85°	332.9	331.2	327.9	319.5	307.8	294.4	274.3	249.2	222.5	190.7	157.2
87.5°	306.1	304.4	299.4	294.4	281.0	266.0	245.9	222.5	194.0	163.9	130.5
90°	287.7	284.4	281.0	274.3	262.6	245.9	225.8	200.7	172.3	142.2	108.7
92.5°	266.0	264.3	259.3	252.6	242.5	225.8	205.7	182.3	153.9	125.5	93.7
95°	244.2	242.5	239.2	232.5	222.5	207.4	189.0	165.6	138.8	110.4	82.0
97.5°	224.1	224.1	219.1	214.1	202.4	190.7	172.3	150.5	125.5	100.4	73.6
100°	207.4	207.4	202.4	195.7	187.3	175.6	157.2	137.2	113.7	90.3	63.6
102.5°	192.4	190.7	187.3	180.7	172.3	160.6	143.9	125.5	103.7	80.3	56.9
105°	179.0	177.3	174.0	167.3	160.6	147.2	133.8	115.4	93.7	71.9	50.2
107.5°	165.6	163.9	162.3	155.6	147.2	135.5	122.1	103.7	85.3	65.2	45.2
110°	153.9	152.2	148.9	142.2	133.8	123.8	110.4	95.3	76.9	58.5	40.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-91SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	143.9	142.2	138.8	132.1	125.5	113.7	102.0	85.3	70.3	53.5	35.1
115°	133.8	132.1	128.8	122.1	113.7	103.7	92.0	78.6	61.9	46.8	31.8
117.5°	123.8	122.1	118.8	113.7	105.4	95.3	83.6	70.3	55.2	43.5	28.4
120°	115.4	112.1	108.7	103.7	95.3	87.0	75.3	63.6	50.2	38.5	25.1
122.5°	107.1	103.7	100.4	95.3	87.0	78.6	66.9	56.9	46.8	35.1	23.4
125°	97.0	95.3	92.0	87.0	78.6	70.3	61.9	51.9	41.8	31.8	20.1
127.5°	88.7	87.0	83.6	76.9	70.3	63.6	55.2	46.8	36.8	26.8	18.4
130°	82.0	78.6	75.3	70.3	65.2	58.5	50.2	41.8	33.5	23.4	16.7
132.5°	73.6	70.3	66.9	63.6	58.5	51.9	45.2	36.8	30.1	21.7	15.1
135°	66.9	63.6	60.2	56.9	51.9	46.8	40.1	33.5	26.8	20.1	13.4
137.5°	58.5	56.9	55.2	51.9	46.8	41.8	36.8	28.4	23.4	18.4	11.7
140°	53.5	51.9	50.2	45.2	41.8	36.8	31.8	25.1	20.1	15.1	10.0
142.5°	48.5	46.8	43.5	40.1	36.8	33.5	26.8	23.4	18.4	13.4	10.0
145°	41.8	40.1	38.5	35.1	31.8	26.8	23.4	20.1	16.7	11.7	8.4
147.5°	38.5	36.8	33.5	30.1	26.8	23.4	21.7	18.4	13.4	10.0	6.7
150°	31.8	30.1	28.4	25.1	23.4	21.7	18.4	15.1	11.7	8.4	6.7
152.5°	26.8	25.1	23.4	23.4	20.1	18.4	15.1	13.4	10.0	8.4	5.0
155°	23.4	23.4	21.7	20.1	16.7	15.1	13.4	10.0	8.4	6.7	5.0
157.5°	20.1	18.4	16.7	16.7	15.1	13.4	10.0	8.4	6.7	6.7	5.0
160°	16.7	15.1	15.1	13.4	11.7	10.0	8.4	8.4	6.7	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-LD5-91SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3041.0	3041.0	3041.0	3041.0	3041.0	3041.0	3041.0	3041.0	3041.0	3041.0	3041.0
2.5°	3046.0	3027.6	3044.4	3066.1	3066.1	3062.8	3059.4	3066.1	3082.8	3076.1	3056.1
5°	3041.0	3022.6	3037.7	3059.4	3059.4	3054.4	3051.0	3056.1	3074.5	3066.1	3047.7
7.5°	3031.0	3014.2	3024.3	3044.4	3044.4	3039.3	3036.0	3042.7	3057.7	3049.4	3029.3
10°	3012.6	2994.2	3005.9	3024.3	3022.6	3019.3	3014.2	3022.6	3036.0	3024.3	3000.9
12.5°	2989.2	2970.8	2980.8	2997.5	2995.8	2989.2	2985.8	2990.8	3002.5	2995.8	2970.8
15°	2957.4	2939.0	2947.3	2964.1	2959.0	2954.0	2947.3	2949.0	2964.1	2952.4	2925.6
17.5°	2918.9	2898.8	2905.5	2920.6	2915.6	2910.5	2902.2	2903.8	2920.6	2903.8	2875.4
20°	2872.1	2850.3	2855.3	2873.7	2865.4	2857.0	2848.6	2848.6	2865.4	2847.0	2815.2
22.5°	2821.9	2800.1	2803.5	2816.9	2810.2	2795.1	2786.8	2791.8	2800.1	2776.7	2743.3
25°	2760.0	2731.6	2736.6	2750.0	2744.9	2724.9	2716.5	2719.8	2716.5	2698.1	2663.0
27.5°	2688.1	2658.0	2661.3	2669.7	2663.0	2644.6	2634.5	2636.2	2629.5	2606.1	2566.0
30°	2597.7	2582.7	2581.0	2586.0	2576.0	2557.6	2545.9	2542.5	2540.9	2507.4	2458.9
32.5°	2505.7	2492.4	2484.0	2490.7	2479.0	2460.6	2440.5	2440.5	2423.8	2392.0	2350.2
35°	2412.1	2390.3	2382.0	2387.0	2373.6	2350.2	2333.4	2325.1	2300.0	2259.8	2214.7
37.5°	2291.6	2276.6	2266.5	2271.6	2256.5	2239.8	2208.0	2199.6	2172.9	2117.7	2060.8
40°	2161.2	2149.4	2139.4	2144.4	2127.7	2102.6	2074.2	2060.8	2030.7	1968.8	1923.6
42.5°	2020.7	2015.6	2003.9	2022.3	1988.9	1963.8	1935.3	1913.6	1883.5	1816.6	1764.7
45°	1871.8	1883.5	1856.7	1861.7	1840.0	1818.3	1788.1	1756.4	1726.3	1662.7	1604.1
47.5°	1714.5	1722.9	1704.5	1707.9	1684.4	1664.4	1637.6	1597.5	1564.0	1508.8	1456.9
50°	1552.3	1548.9	1548.9	1545.6	1527.2	1502.1	1475.3	1438.5	1405.1	1354.9	1311.4
52.5°	1380.0	1386.7	1390.0	1398.4	1375.0	1359.9	1318.1	1286.3	1261.2	1209.4	1172.6
55°	1214.4	1237.8	1231.1	1234.5	1207.7	1196.0	1162.5	1137.5	1100.7	1070.5	1047.1
57.5°	1063.9	1068.9	1072.2	1077.2	1065.5	1042.1	1015.3	995.3	966.8	941.7	925.0
60°	918.3	918.3	920.0	928.4	916.7	896.6	876.5	861.5	841.4	826.3	816.3
62.5°	781.2	792.9	794.5	787.9	772.8	762.8	749.4	741.0	727.6	722.6	719.3
65°	654.0	654.0	654.0	657.4	649.0	642.3	634.0	632.3	637.3	630.6	634.0
67.5°	547.0	542.0	538.6	540.3	536.9	533.6	531.9	536.9	547.0	547.0	555.3
70°	455.0	444.9	438.3	438.3	438.3	439.9	444.9	455.0	471.7	478.4	490.1
72.5°	379.7	358.0	347.9	347.9	349.6	356.3	371.3	389.7	404.8	418.2	433.2
75°	307.8	286.0	271.0	269.3	272.7	282.7	304.4	321.2	346.3	364.7	383.1
77.5°	249.2	222.5	204.1	202.4	207.4	222.5	249.2	271.0	299.4	319.5	339.6
80°	199.1	168.9	153.9	143.9	152.2	170.6	200.7	227.5	254.3	281.0	306.1
82.5°	158.9	130.5	107.1	97.0	107.1	132.1	160.6	192.4	219.1	247.6	272.7
85°	125.5	95.3	68.6	58.5	70.3	97.0	128.8	160.6	190.7	219.1	244.2
87.5°	98.7	68.6	41.8	28.4	43.5	71.9	102.0	133.8	165.6	194.0	219.1
90°	76.9	48.5	23.4	3.3	25.1	51.9	82.0	112.1	143.9	172.3	197.4
92.5°	65.2	36.8	13.4	0.0	15.1	38.5	66.9	97.0	125.5	153.9	179.0
95°	55.2	30.1	10.0	0.0	10.0	30.1	55.2	82.0	110.4	138.8	163.9
97.5°	46.8	23.4	6.7	0.0	6.7	23.4	45.2	71.9	97.0	123.8	147.2
100°	40.1	20.1	5.0	0.0	5.0	18.4	38.5	61.9	87.0	112.1	133.8
102.5°	35.1	16.7	3.3	0.0	3.3	15.1	31.8	53.5	75.3	98.7	120.4
105°	30.1	13.4	3.3	0.0	1.7	11.7	26.8	46.8	66.9	88.7	108.7
107.5°	26.8	11.7	3.3	0.0	1.7	10.0	23.4	40.1	60.2	78.6	97.0
110°	23.4	10.0	3.3	0.0	1.7	6.7	20.1	35.1	51.9	70.3	88.7



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-91SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	20.1	8.4	1.7	0.0	0.0	5.0	16.7	30.1	45.2	63.6	78.6
115°	18.4	8.4	1.7	0.0	0.0	3.3	13.4	26.8	40.1	56.9	70.3
117.5°	16.7	6.7	1.7	0.0	1.7	3.3	11.7	23.4	35.1	48.5	63.6
120°	15.1	6.7	1.7	0.0	1.7	1.7	8.4	20.1	30.1	43.5	55.2
122.5°	13.4	6.7	1.7	0.0	1.7	1.7	6.7	16.7	26.8	38.5	48.5
125°	11.7	5.0	3.3	1.7	1.7	1.7	5.0	13.4	23.4	31.8	43.5
127.5°	11.7	5.0	3.3	1.7	1.7	1.7	3.3	11.7	18.4	28.4	38.5
130°	10.0	5.0	3.3	1.7	1.7	1.7	1.7	8.4	16.7	23.4	31.8
132.5°	8.4	5.0	3.3	1.7	1.7	1.7	1.7	5.0	11.7	20.1	26.8
135°	8.4	5.0	3.3	1.7	1.7	1.7	1.7	3.3	8.4	15.1	21.7
137.5°	6.7	3.3	3.3	1.7	1.7	1.7	1.7	1.7	6.7	11.7	16.7
140°	6.7	3.3	3.3	1.7	1.7	1.7	1.7	1.7	5.0	8.4	13.4
142.5°	5.0	3.3	3.3	1.7	1.7	1.7	1.7	1.7	3.3	6.7	10.0
145°	5.0	3.3	3.3	1.7	1.7	1.7	1.7	1.7	1.7	3.3	6.7
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-LD5-91SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3041.0	3041.0	3041.0	3041.0	3041.0	3041.0	3041.0	3041.0	3041.0	3041.0	3041.0
2.5°	3049.4	3017.6	3034.3	3029.3	3036.0	3049.4	3047.7	3044.4	3044.4	3039.3	3032.6
5°	3039.3	3009.2	3024.3	3015.9	3024.3	3036.0	3034.3	3029.3	3032.6	3024.3	3015.9
7.5°	3019.3	2992.5	3005.9	2999.2	3005.9	3017.6	3012.6	3010.9	3014.2	3000.9	2995.8
10°	2995.8	2965.7	2980.8	2972.4	2980.8	2989.2	2985.8	2979.1	2985.8	2972.4	2967.4
12.5°	2959.0	2934.0	2944.0	2940.6	2945.7	2954.0	2947.3	2942.3	2945.7	2934.0	2923.9
15°	2918.9	2893.8	2902.2	2897.2	2900.5	2910.5	2898.8	2897.2	2893.8	2882.1	2878.8
17.5°	2867.0	2843.6	2852.0	2843.6	2848.6	2845.3	2843.6	2835.3	2835.3	2821.9	2811.8
20°	2803.5	2783.4	2778.4	2771.7	2778.4	2771.7	2761.7	2755.0	2753.3	2739.9	2731.6
22.5°	2729.9	2706.5	2709.8	2691.4	2693.1	2683.0	2666.3	2659.6	2652.9	2637.9	2626.2
25°	2641.2	2617.8	2601.1	2589.4	2574.3	2572.6	2550.9	2534.2	2532.5	2514.1	2512.4
27.5°	2540.9	2514.1	2500.7	2472.3	2453.9	2438.8	2420.4	2403.7	2395.3	2375.3	2361.9
30°	2425.4	2395.3	2361.9	2341.8	2313.4	2301.7	2269.9	2249.8	2243.1	2221.4	2211.3
32.5°	2295.0	2263.2	2236.4	2198.0	2166.2	2149.4	2117.7	2097.6	2089.2	2065.8	2052.4
35°	2152.8	2117.7	2085.9	2049.1	2024.0	1995.6	1957.1	1937.0	1918.6	1910.3	1900.2
37.5°	2003.9	1965.5	1928.7	1891.9	1870.1	1836.7	1803.2	1789.8	1768.1	1759.7	1749.7
40°	1850.0	1811.6	1776.4	1741.3	1716.2	1686.1	1656.0	1651.0	1627.6	1619.2	1612.5
42.5°	1697.8	1657.7	1617.5	1592.4	1574.0	1543.9	1523.9	1518.8	1498.8	1493.7	1493.7
45°	1560.7	1510.5	1477.0	1455.3	1440.2	1415.1	1398.4	1395.1	1378.3	1375.0	1375.0
47.5°	1413.5	1366.6	1341.5	1328.1	1314.8	1296.4	1286.3	1286.3	1269.6	1266.3	1264.6
50°	1276.3	1232.8	1214.4	1201.0	1199.3	1186.0	1177.6	1174.3	1174.3	1162.5	1164.2
52.5°	1145.8	1124.1	1109.0	1100.7	1090.6	1082.3	1075.6	1075.6	1070.5	1062.2	1065.5
55°	1025.4	1000.3	1002.0	995.3	990.3	985.2	986.9	976.9	975.2	968.5	973.5
57.5°	904.9	904.9	901.6	896.6	888.2	891.6	891.6	891.6	883.2	878.2	883.2
60°	802.9	807.9	799.6	804.6	801.2	802.9	799.6	799.6	794.5	792.9	794.5
62.5°	712.6	720.9	717.6	724.3	720.9	722.6	726.0	719.3	715.9	712.6	715.9
65°	632.3	642.3	640.7	645.7	647.3	649.0	650.7	647.3	644.0	640.7	639.0
67.5°	562.0	572.1	578.8	580.4	582.1	587.1	585.5	582.1	578.8	573.7	572.1
70°	498.5	511.9	520.2	523.6	530.3	526.9	526.9	525.2	521.9	516.9	515.2
72.5°	444.9	460.0	468.4	471.7	478.4	478.4	476.7	475.1	471.7	466.7	465.0
75°	398.1	411.5	423.2	429.9	434.9	434.9	433.2	431.6	428.2	424.9	423.2
77.5°	361.3	373.0	383.1	391.4	394.8	396.4	394.8	391.4	391.4	389.7	388.1
80°	324.5	337.9	347.9	356.3	361.3	361.3	359.6	361.3	358.0	356.3	354.6
82.5°	292.7	307.8	319.5	327.9	331.2	332.9	331.2	332.9	329.5	329.5	329.5
85°	264.3	279.3	292.7	299.4	304.4	306.1	306.1	306.1	304.4	304.4	304.4
87.5°	240.9	255.9	269.3	276.0	281.0	282.7	282.7	284.4	281.0	281.0	281.0
90°	219.1	234.2	247.6	254.3	259.3	262.6	262.6	264.3	262.6	260.9	260.9
92.5°	199.1	215.8	229.2	235.9	240.9	245.9	245.9	247.6	244.2	244.2	244.2
95°	182.3	199.1	210.8	219.1	224.1	227.5	229.2	229.2	227.5	227.5	227.5
97.5°	167.3	182.3	194.0	202.4	207.4	209.1	210.8	212.4	210.8	210.8	210.8
100°	152.2	167.3	179.0	185.7	192.4	194.0	195.7	197.4	197.4	195.7	195.7
102.5°	138.8	153.9	163.9	172.3	177.3	180.7	182.3	182.3	182.3	182.3	182.3
105°	125.5	140.5	150.5	158.9	163.9	167.3	168.9	170.6	170.6	168.9	168.9
107.5°	113.7	127.1	138.8	145.5	152.2	155.6	157.2	157.2	158.9	157.2	157.2
110°	102.0	117.1	127.1	133.8	140.5	143.9	145.5	147.2	147.2	147.2	147.2



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-91SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	93.7	105.4	115.4	122.1	128.8	132.1	133.8	135.5	137.2	135.5	135.5
115°	83.6	95.3	105.4	112.1	117.1	120.4	123.8	125.5	125.5	127.1	125.5
117.5°	75.3	85.3	95.3	102.0	107.1	112.1	113.7	115.4	117.1	115.4	115.4
120°	66.9	76.9	85.3	92.0	97.0	102.0	103.7	105.4	107.1	105.4	105.4
122.5°	60.2	68.6	76.9	83.6	88.7	92.0	95.3	95.3	97.0	97.0	97.0
125°	53.5	61.9	68.6	75.3	80.3	83.6	85.3	87.0	87.0	88.7	88.7
127.5°	46.8	53.5	61.9	66.9	71.9	75.3	76.9	78.6	78.6	80.3	80.3
130°	40.1	46.8	53.5	58.5	63.6	66.9	68.6	70.3	71.9	71.9	71.9
132.5°	35.1	41.8	46.8	51.9	55.2	58.5	61.9	63.6	63.6	63.6	63.6
135°	28.4	35.1	40.1	45.2	48.5	51.9	53.5	56.9	56.9	56.9	56.9
137.5°	23.4	30.1	35.1	38.5	41.8	45.2	46.8	48.5	50.2	50.2	50.2
140°	18.4	23.4	28.4	33.5	36.8	38.5	41.8	41.8	43.5	43.5	43.5
142.5°	13.4	18.4	21.7	26.8	30.1	33.5	35.1	36.8	36.8	36.8	36.8
145°	10.0	13.4	16.7	20.1	25.1	26.8	28.4	30.1	31.8	31.8	31.8
147.5°	6.7	10.0	11.7	15.1	18.4	21.7	23.4	25.1	26.8	26.8	26.8
150°	5.0	6.7	10.0	11.7	13.4	16.7	20.1	20.1	21.7	21.7	20.1
152.5°	3.3	5.0	6.7	8.4	10.0	11.7	15.1	15.1	16.7	16.7	16.7
155°	3.3	3.3	3.3	5.0	6.7	8.4	10.0	11.7	11.7	11.7	11.7
157.5°	3.3	3.3	3.3	3.3	3.3	5.0	6.7	8.4	8.4	8.4	8.4
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-LD5-91SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3041.0	3041.0	3041.0	3041.0	3041.0	3041.0	3041.0	3041.0	3041.0	3041.0	3041.0
2.5°	3037.7	3041.0	3041.0	3037.7	3036.0	3042.7	3034.3	3002.5	3012.6	3015.9	3026.0
5°	3022.6	3026.0	3026.0	3026.0	3022.6	3029.3	3020.9	2989.2	3000.9	3005.9	3012.6
7.5°	3000.9	3002.5	3005.9	3004.2	3000.9	3010.9	3002.5	2970.8	2979.1	2987.5	2995.8
10°	2972.4	2972.4	2974.1	2977.4	2974.1	2982.5	2974.1	2945.7	2954.0	2959.0	2969.1
12.5°	2934.0	2937.3	2939.0	2937.3	2935.6	2942.3	2939.0	2912.2	2915.6	2925.6	2935.6
15°	2882.1	2882.1	2890.5	2887.1	2887.1	2893.8	2897.2	2867.0	2872.1	2887.1	2897.2
17.5°	2818.5	2820.2	2826.9	2830.2	2828.6	2840.3	2842.0	2818.5	2816.9	2835.3	2845.3
20°	2736.6	2739.9	2748.3	2755.0	2755.0	2768.4	2773.4	2758.3	2760.0	2780.1	2783.4
22.5°	2636.2	2636.2	2651.3	2661.3	2669.7	2678.0	2693.1	2679.7	2679.7	2706.5	2721.5
25°	2512.4	2524.1	2529.2	2549.2	2560.9	2584.4	2597.7	2599.4	2601.1	2626.2	2636.2
27.5°	2375.3	2378.6	2393.7	2417.1	2430.5	2452.2	2477.3	2482.3	2490.7	2524.1	2539.2
30°	2219.7	2229.7	2236.4	2269.9	2288.3	2316.7	2348.5	2360.2	2366.9	2412.1	2430.5
32.5°	2060.8	2064.1	2092.6	2111.0	2132.7	2162.8	2199.6	2221.4	2234.8	2281.6	2308.4
35°	1901.9	1908.6	1932.0	1955.4	1977.2	2007.3	2045.7	2075.8	2099.3	2141.1	2176.2
37.5°	1756.4	1773.1	1778.1	1801.5	1818.3	1848.4	1875.1	1918.6	1942.0	1985.5	2030.7
40°	1625.9	1630.9	1634.3	1657.7	1669.4	1697.8	1736.3	1764.7	1796.5	1828.3	1881.8
42.5°	1497.1	1500.4	1505.5	1518.8	1532.2	1552.3	1580.7	1609.2	1642.6	1689.5	1724.6
45°	1378.3	1381.7	1385.0	1393.4	1405.1	1423.5	1441.9	1462.0	1495.4	1535.6	1572.4
47.5°	1267.9	1274.6	1274.6	1276.3	1284.7	1299.7	1313.1	1338.2	1356.6	1378.3	1420.1
50°	1162.5	1167.6	1169.2	1169.2	1174.3	1184.3	1187.6	1204.4	1221.1	1241.2	1271.3
52.5°	1063.9	1063.9	1062.2	1068.9	1068.9	1075.6	1077.2	1087.3	1099.0	1120.7	1134.1
55°	970.2	970.2	975.2	971.9	971.9	975.2	973.5	975.2	985.2	998.6	1010.3
57.5°	879.9	878.2	883.2	879.9	878.2	881.5	884.9	878.2	879.9	893.2	893.2
60°	789.5	791.2	796.2	792.9	792.9	792.9	789.5	786.2	782.8	791.2	794.5
62.5°	717.6	712.6	717.6	712.6	715.9	714.3	710.9	704.2	705.9	702.5	699.2
65°	642.3	642.3	644.0	639.0	642.3	642.3	637.3	635.6	625.6	622.3	613.9
67.5°	577.1	577.1	578.8	575.4	575.4	577.1	572.1	567.1	557.0	552.0	540.3
70°	520.2	520.2	520.2	518.5	518.5	518.5	515.2	508.5	498.5	490.1	475.1
72.5°	468.4	470.0	468.4	468.4	473.4	468.4	463.3	456.7	448.3	431.6	418.2
75°	426.5	428.2	426.5	426.5	426.5	424.9	423.2	413.2	403.1	389.7	369.7
77.5°	389.7	389.7	391.4	389.7	389.7	388.1	383.1	374.7	363.0	351.3	327.9
80°	354.6	356.3	358.0	359.6	356.3	354.6	349.6	342.9	327.9	314.5	291.1
82.5°	329.5	327.9	329.5	331.2	327.9	326.2	321.2	312.8	301.1	282.7	259.3
85°	304.4	302.8	302.8	304.4	302.8	299.4	294.4	286.0	274.3	255.9	232.5
87.5°	279.3	281.0	282.7	281.0	279.3	276.0	271.0	262.6	249.2	234.2	209.1
90°	260.9	260.9	260.9	260.9	259.3	255.9	250.9	240.9	229.2	210.8	189.0
92.5°	244.2	244.2	244.2	244.2	242.5	237.5	232.5	224.1	210.8	192.4	172.3
95°	227.5	229.2	227.5	227.5	224.1	222.5	214.1	205.7	194.0	175.6	153.9
97.5°	209.1	210.8	209.1	209.1	207.4	204.1	199.1	189.0	177.3	160.6	140.5
100°	195.7	195.7	194.0	194.0	192.4	189.0	182.3	174.0	162.3	145.5	125.5
102.5°	180.7	182.3	180.7	180.7	177.3	174.0	168.9	160.6	148.9	132.1	113.7
105°	168.9	168.9	167.3	167.3	163.9	160.6	155.6	145.5	135.5	120.4	102.0
107.5°	157.2	157.2	155.6	155.6	152.2	148.9	142.2	133.8	123.8	108.7	92.0
110°	145.5	145.5	145.5	143.9	140.5	135.5	130.5	122.1	112.1	98.7	82.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-91SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	137.2	135.5	133.8	132.1	128.8	125.5	118.8	110.4	100.4	88.7	73.6
115°	125.5	125.5	123.8	122.1	118.8	113.7	108.7	102.0	92.0	78.6	65.2
117.5°	115.4	115.4	113.7	112.1	108.7	103.7	98.7	92.0	82.0	70.3	58.5
120°	105.4	105.4	103.7	102.0	98.7	93.7	90.3	82.0	73.6	61.9	51.9
122.5°	97.0	95.3	95.3	92.0	90.3	85.3	80.3	73.6	65.2	55.2	45.2
125°	87.0	87.0	85.3	83.6	82.0	76.9	71.9	65.2	56.9	48.5	40.1
127.5°	78.6	78.6	76.9	75.3	73.6	68.6	63.6	58.5	50.2	41.8	33.5
130°	70.3	70.3	68.6	66.9	65.2	60.2	56.9	50.2	43.5	36.8	28.4
132.5°	63.6	63.6	61.9	60.2	56.9	53.5	50.2	43.5	38.5	31.8	25.1
135°	56.9	55.2	55.2	53.5	50.2	46.8	43.5	38.5	31.8	26.8	20.1
137.5°	50.2	48.5	46.8	45.2	43.5	40.1	36.8	33.5	28.4	21.7	16.7
140°	43.5	41.8	41.8	40.1	36.8	35.1	31.8	26.8	23.4	18.4	13.4
142.5°	36.8	36.8	35.1	33.5	31.8	30.1	26.8	23.4	18.4	15.1	10.0
145°	31.8	30.1	30.1	28.4	26.8	23.4	21.7	18.4	15.1	11.7	8.4
147.5°	25.1	25.1	25.1	23.4	21.7	20.1	18.4	15.1	11.7	8.4	5.0
150°	20.1	20.1	20.1	18.4	16.7	15.1	13.4	11.7	8.4	5.0	3.3
152.5°	16.7	16.7	15.1	15.1	13.4	11.7	10.0	8.4	5.0	3.3	3.3
155°	11.7	11.7	11.7	10.0	10.0	8.4	6.7	5.0	3.3	3.3	3.3
157.5°	8.4	8.4	8.4	6.7	6.7	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-LD5-91SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3041.0	3041.0	3041.0	3041.0	3041.0	3041.0	3041.0
2.5°	3020.9	3019.3	3032.6	3032.6	3017.6	3041.0	3066.1
5°	3010.9	3009.2	3022.6	3022.6	3009.2	3032.6	3059.4
7.5°	2990.8	2992.5	3005.9	3009.2	2992.5	3014.2	3042.7
10°	2969.1	2967.4	2982.5	2985.8	2972.4	2992.5	3019.3
12.5°	2934.0	2934.0	2949.0	2954.0	2940.6	2964.1	2989.2
15°	2897.2	2897.2	2907.2	2915.6	2903.8	2925.6	2950.7
17.5°	2850.3	2848.6	2858.7	2868.7	2857.0	2880.4	2907.2
20°	2790.1	2790.1	2801.8	2813.5	2805.2	2826.9	2857.0
22.5°	2726.5	2719.8	2739.9	2748.3	2743.3	2765.0	2795.1
25°	2646.2	2644.6	2664.6	2676.4	2669.7	2693.1	2719.8
27.5°	2559.3	2557.6	2577.7	2592.7	2589.4	2611.1	2641.2
30°	2453.9	2462.2	2480.6	2505.7	2497.4	2520.8	2552.6
32.5°	2343.5	2351.8	2373.6	2400.4	2402.0	2420.4	2452.2
35°	2211.3	2233.1	2248.1	2283.3	2290.0	2308.4	2341.8
37.5°	2072.5	2097.6	2129.4	2156.1	2169.5	2184.6	2223.0
40°	1916.9	1953.7	1988.9	2020.7	2037.4	2052.4	2089.2
42.5°	1776.4	1804.9	1838.3	1870.1	1900.2	1913.6	1952.1
45°	1617.5	1651.0	1681.1	1719.6	1749.7	1764.7	1803.2
47.5°	1462.0	1495.4	1535.6	1562.3	1594.1	1609.2	1646.0
50°	1313.1	1343.2	1376.7	1408.4	1435.2	1448.6	1480.4
52.5°	1165.9	1197.7	1229.5	1249.5	1278.0	1288.0	1314.8
55°	1035.4	1057.2	1085.6	1097.3	1125.7	1132.4	1150.8
57.5°	910.0	925.0	935.1	955.1	975.2	990.3	1012.0
60°	796.2	802.9	809.6	821.3	838.0	843.1	851.4
62.5°	694.2	692.5	705.9	709.2	710.9	727.6	719.3
65°	603.9	605.5	593.8	588.8	595.5	600.5	597.2
67.5°	528.6	518.5	508.5	496.8	486.8	491.8	486.8
70°	455.0	446.6	429.9	413.2	406.5	396.4	391.4
72.5°	396.4	376.4	359.6	337.9	326.2	314.5	306.1
75°	351.3	322.8	299.4	276.0	259.3	242.5	239.2
77.5°	304.4	277.7	250.9	225.8	200.7	182.3	175.6
80°	267.6	242.5	210.8	180.7	153.9	130.5	122.1
82.5°	234.2	207.4	175.6	143.9	113.7	88.7	78.6
85°	205.7	177.3	145.5	113.7	83.6	56.9	43.5
87.5°	184.0	152.2	120.4	90.3	58.5	31.8	16.7
90°	163.9	133.8	103.7	71.9	41.8	16.7	0.0
92.5°	145.5	117.1	87.0	58.5	31.8	10.0	1.7
95°	128.8	103.7	73.6	46.8	23.4	6.7	1.7
97.5°	115.4	90.3	63.6	38.5	18.4	5.0	1.7
100°	103.7	78.6	55.2	31.8	15.1	3.3	1.7
102.5°	92.0	70.3	46.8	26.8	11.7	1.7	1.7
105°	82.0	61.9	40.1	23.4	10.0	1.7	1.7
107.5°	73.6	55.2	35.1	20.1	6.7	1.7	1.7
110°	65.2	46.8	30.1	16.7	5.0	1.7	1.7



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-91SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	58.5	41.8	26.8	13.4	3.3	1.7	1.7
115°	51.9	36.8	23.4	11.7	3.3	1.7	1.7
117.5°	45.2	31.8	20.1	8.4	1.7	1.7	1.7
120°	40.1	28.4	16.7	6.7	1.7	1.7	1.7
122.5°	35.1	23.4	13.4	5.0	1.7	1.7	1.7
125°	30.1	20.1	11.7	3.3	1.7	1.7	1.7
127.5°	25.1	16.7	8.4	3.3	1.7	1.7	1.7
130°	21.7	13.4	6.7	1.7	1.7	1.7	1.7
132.5°	18.4	10.0	5.0	1.7	1.7	1.7	1.7
135°	15.1	8.4	3.3	1.7	1.7	1.7	1.7
137.5°	11.7	6.7	3.3	1.7	1.7	1.7	1.7
140°	8.4	5.0	1.7	1.7	1.7	1.7	1.7
142.5°	6.7	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)