

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-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33519)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNLED-LD5-91SL-LN-UNV-L940-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

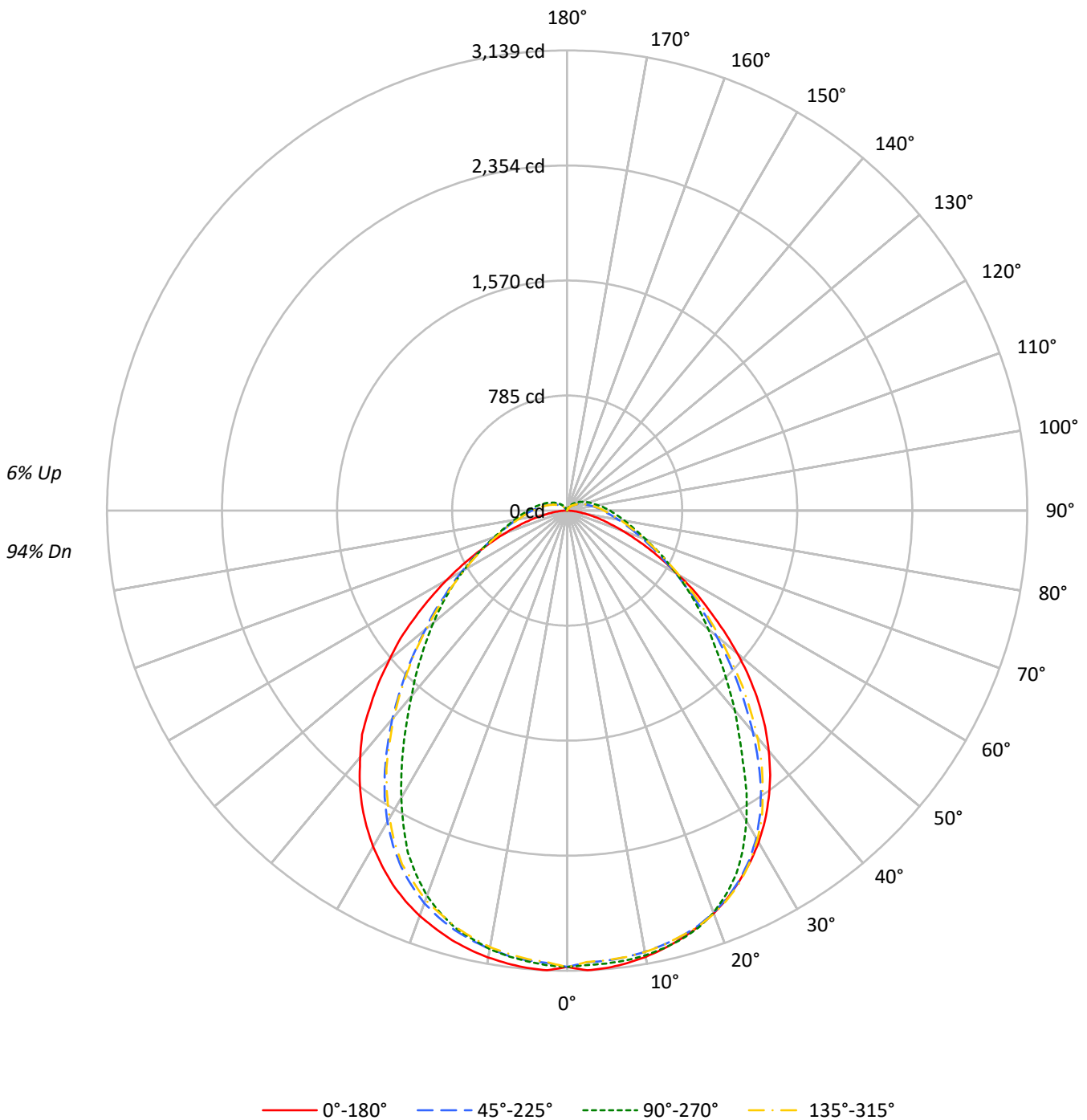
Lumens per Lamp: N/A
Luminaire Lumens: 7878.0 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

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°	12578	12578	12578	12578
5°	12685	12177	12685	12123
10°	12646	11854	12667	11689
15°	12582	11500	12639	11200
20°	12504	11044	12577	10578
25°	12323	10368	12459	9758
30°	12082	9376	12240	8680
35°	11696	8159	11922	7598
40°	11134	7136	11428	6621
45°	10385	6203	10722	5848
50°	9352	5451	9763	5176
55°	8117	4813	8708	4570
60°	6858	4226	7477	3983
65°	5655	3737	6225	3465
70°	4539	3316	5081	3067
75°	3613	3062	4067	2817
80°	2672	2954	3148	2700
85°	1750	2971	2356	2730



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.1	3.7
10°-20°	846.2	10.7
20°-30°	1254.2	15.9
30°-40°	1393.3	17.7
40°-50°	1263.1	16.0
50°-60°	978.7	12.4
60°-70°	664.6	8.4
70°-80°	422.8	5.4
80°-90°	270.3	3.4
90°-100°	182.3	2.3
100°-110°	124.8	1.6
110°-120°	83.3	1.1
120°-130°	51.8	0.7
130°-140°	28.6	0.4
140°-150°	13.4	0.2
150°-160°	4.9	0.1
160°-170°	0.3	0.0
170°-180°	0.0	0.0
0°-30°	2395.5	30.4
0°-40°	3788.9	48.1
0°-60°	6030.7	76.6
0°-90°	7388.5	93.8
90°-120°	390.4	5.0
90°-150°	484.3	6.1
90°-180°	489.0	6.2
0°-180°	7878.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3113	3113	3113	3113	3113	
5°	3132	3101	3132	3087	3132	298
15°	3020	3026	3034	2947	3020	853
25°	2784	2733	2815	2572	2784	1282
35°	2397	2089	2443	1945	2397	1495
45°	1846	1493	1906	1408	1846	1418
55°	1178	1050	1264	996	1178	1061
65°	611	706	673	654	611	613
75°	245	471	276	433	245	264
85°	44	339	60	312	44	53
90°	0	293	3	267	0	3
95°	2	250	0	233	2	1
105°	2	183	0	173	2	2
115°	2	139	0	128	2	2
125°	2	103	2	91	2	2
135°	2	72	2	58	2	1
145°	2	46	2	32	2	1
155°	2	26	2	12	2	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3112.9	3112.9	3112.9	3112.9	3112.9	3112.9	3112.9	3112.9	3112.9	3112.9	3112.9
2.5°	3138.6	3135.2	3131.8	3126.6	3131.8	3145.5	3136.9	3118.1	3114.6	3083.8	3097.5
5°	3131.8	3126.6	3123.2	3118.1	3124.9	3142.0	3133.5	3116.4	3111.2	3082.1	3097.5
7.5°	3114.6	3111.2	3106.1	3106.1	3112.9	3130.1	3123.2	3104.4	3100.9	3071.8	3089.0
10°	3090.7	3089.0	3085.5	3085.5	3092.4	3112.9	3104.4	3087.2	3083.8	3056.4	3075.3
12.5°	3059.8	3061.6	3056.4	3056.4	3066.7	3087.2	3080.4	3061.6	3058.1	3034.2	3053.0
15°	3020.5	3022.2	3018.8	3020.5	3030.7	3054.7	3046.1	3029.0	3025.6	3006.8	3022.2
17.5°	2975.9	2977.7	2977.7	2975.9	2987.9	3011.9	3005.1	2989.6	2984.5	2969.1	2987.9
20°	2924.6	2924.6	2924.6	2924.6	2938.3	2962.2	2953.7	2941.7	2931.4	2919.4	2934.8
22.5°	2861.2	2859.5	2861.2	2866.4	2880.1	2898.9	2893.8	2880.1	2864.6	2857.8	2869.8
25°	2784.2	2789.3	2791.0	2796.2	2813.3	2828.7	2823.6	2809.9	2785.9	2780.7	2784.2
27.5°	2703.7	2707.1	2712.3	2710.5	2734.5	2749.9	2739.6	2727.7	2693.4	2688.3	2684.9
30°	2612.9	2618.1	2621.5	2619.8	2638.6	2655.7	2645.5	2630.1	2583.8	2580.4	2553.0
32.5°	2510.2	2515.3	2518.8	2518.8	2546.2	2553.0	2534.2	2511.9	2462.3	2450.3	2426.3
35°	2397.2	2402.3	2404.0	2404.0	2431.4	2429.7	2405.8	2374.9	2320.1	2304.7	2263.6
37.5°	2275.6	2279.0	2280.8	2291.0	2303.0	2292.7	2261.9	2222.5	2181.4	2138.6	2094.1
40°	2138.6	2143.8	2147.2	2154.0	2166.0	2154.0	2109.5	2061.6	2017.1	1969.1	1924.6
42.5°	1998.2	2013.6	2010.2	2008.5	2015.4	1982.8	1948.6	1893.8	1849.3	1799.6	1755.1
45°	1845.8	1844.1	1852.7	1856.1	1854.4	1827.0	1779.1	1729.4	1684.9	1633.5	1595.8
47.5°	1684.9	1683.2	1690.0	1693.4	1683.2	1654.1	1616.4	1559.9	1522.2	1477.7	1448.6
50°	1515.4	1515.4	1525.6	1515.4	1510.2	1481.1	1450.3	1393.8	1364.7	1325.3	1308.2
52.5°	1345.9	1361.3	1351.0	1347.6	1342.4	1313.3	1289.3	1243.1	1219.1	1202.0	1181.5
55°	1178.0	1195.2	1188.3	1183.2	1181.5	1157.5	1135.2	1101.0	1085.6	1073.6	1061.6
57.5°	1035.9	1034.2	1030.8	1025.7	1027.4	1008.5	986.3	967.4	960.6	955.5	958.9
60°	871.6	885.2	880.1	881.8	883.5	880.1	861.3	849.3	851.0	852.7	857.9
62.5°	736.3	748.3	756.8	750.0	753.4	758.5	748.3	744.8	751.7	758.5	765.4
65°	611.3	623.3	631.8	630.1	640.4	650.7	649.0	652.4	667.8	676.4	684.9
67.5°	498.3	510.3	522.2	524.0	539.4	554.8	561.6	573.6	590.7	602.7	613.0
70°	400.7	410.9	424.6	433.2	453.8	474.3	486.3	510.3	520.5	537.7	544.5
72.5°	313.3	321.9	340.7	361.3	378.4	404.1	428.1	448.6	464.0	482.9	491.4
75°	244.9	248.3	268.8	292.8	316.8	345.9	371.6	393.8	414.4	433.2	446.9
77.5°	179.8	184.9	203.8	236.3	263.7	294.5	323.6	347.6	369.9	388.7	407.5
80°	125.0	135.3	155.8	188.4	219.2	253.4	280.8	308.2	332.2	351.0	369.9
82.5°	80.5	89.0	118.1	150.7	183.2	217.5	246.6	274.0	299.6	320.2	337.3
85°	44.5	56.5	85.6	119.9	152.4	186.6	217.5	244.9	270.5	289.4	306.5
87.5°	17.1	34.2	61.6	94.2	126.7	159.2	191.8	217.5	243.1	263.7	279.1
90°	0.0	20.5	46.2	78.8	111.3	143.8	174.7	202.0	226.0	244.9	262.0
92.5°	1.7	13.7	36.0	63.4	94.2	125.0	154.1	181.5	205.5	224.3	239.7
95°	1.7	10.3	29.1	54.8	82.2	111.3	138.7	164.4	186.6	205.5	220.9
97.5°	1.7	6.8	24.0	47.9	71.9	101.0	126.7	150.7	171.2	190.1	202.0
100°	1.7	6.8	20.5	41.1	65.1	90.8	114.7	138.7	157.5	172.9	186.6
102.5°	1.7	5.1	17.1	36.0	58.2	80.5	104.4	126.7	143.8	159.2	172.9
105°	1.7	5.1	15.4	30.8	51.4	73.6	94.2	114.7	133.6	147.3	159.2
107.5°	1.7	3.4	13.7	25.7	44.5	66.8	87.3	104.4	121.6	135.3	147.3
110°	1.7	3.4	12.0	24.0	39.4	59.9	78.8	95.9	111.3	125.0	135.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.7	3.4	10.3	22.3	36.0	53.1	71.9	87.3	102.7	114.7	125.0
115°	1.7	3.4	10.3	20.5	32.5	46.2	63.4	80.5	92.5	106.2	114.7
117.5°	1.7	3.4	8.6	17.1	30.8	42.8	58.2	71.9	85.6	97.6	106.2
120°	1.7	3.4	8.6	15.4	27.4	39.4	51.4	65.1	78.8	87.3	95.9
122.5°	1.7	3.4	6.8	15.4	24.0	36.0	46.2	58.2	70.2	80.5	89.0
125°	1.7	3.4	6.8	13.7	22.3	32.5	42.8	51.4	63.4	71.9	80.5
127.5°	1.7	3.4	6.8	12.0	20.5	29.1	39.4	47.9	56.5	65.1	71.9
130°	1.7	3.4	5.1	10.3	18.8	25.7	34.2	44.5	51.4	58.2	65.1
132.5°	1.7	3.4	5.1	10.3	15.4	22.3	30.8	39.4	46.2	53.1	58.2
135°	1.7	3.4	5.1	8.6	13.7	20.5	25.7	34.2	41.1	47.9	53.1
137.5°	1.7	3.4	5.1	8.6	12.0	17.1	22.3	29.1	36.0	41.1	47.9
140°	1.7	3.4	5.1	6.8	10.3	15.4	20.5	24.0	30.8	36.0	41.1
142.5°	1.7	3.4	5.1	6.8	10.3	13.7	17.1	20.5	25.7	30.8	36.0
145°	1.7	3.4	5.1	6.8	8.6	12.0	15.4	18.8	20.5	25.7	29.1
147.5°	1.7	3.4	5.1	6.8	6.8	10.3	13.7	15.4	18.8	20.5	24.0
150°	1.7	3.4	5.1	5.1	6.8	8.6	12.0	13.7	15.4	18.8	20.5
152.5°	1.7	3.4	5.1	5.1	6.8	8.6	10.3	12.0	13.7	15.4	17.1
155°	1.7	3.4	5.1	5.1	5.1	6.8	8.6	10.3	12.0	13.7	15.4
157.5°	3.4	3.4	3.4	5.1	5.1	6.8	6.8	8.6	10.3	10.3	12.0
160°	3.4	3.4	3.4	5.1	5.1	5.1	6.8	6.8	8.6	8.6	10.3
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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3112.9	3112.9	3112.9	3112.9	3112.9	3112.9	3112.9	3112.9	3112.9	3112.9	3112.9
2.5°	3094.1	3099.2	3114.6	3114.6	3111.2	3107.8	3107.8	3102.7	3106.1	3112.9	3109.5
5°	3094.1	3099.2	3114.6	3114.6	3111.2	3107.8	3106.1	3100.9	3106.1	3112.9	3109.5
7.5°	3083.8	3090.7	3106.1	3106.1	3102.7	3100.9	3097.5	3094.1	3099.2	3106.1	3102.7
10°	3070.1	3077.0	3092.4	3092.4	3089.0	3089.0	3083.8	3080.4	3087.2	3092.4	3090.7
12.5°	3049.6	3058.1	3071.8	3070.1	3066.7	3068.4	3063.3	3056.4	3063.3	3068.4	3070.1
15°	3020.5	3030.7	3044.4	3041.0	3035.9	3039.3	3030.7	3025.6	3030.7	3041.0	3039.3
17.5°	2982.8	2989.6	2999.9	2999.9	2994.8	2991.4	2987.9	2982.8	2986.2	2993.1	2994.8
20°	2929.7	2938.3	2943.4	2938.3	2936.6	2931.4	2924.6	2919.4	2926.3	2936.6	2938.3
22.5°	2859.5	2861.2	2873.2	2861.2	2852.7	2850.9	2844.1	2833.8	2844.1	2852.7	2854.4
25°	2772.2	2780.7	2775.6	2755.1	2755.1	2741.4	2737.9	2732.8	2734.5	2749.9	2756.8
27.5°	2660.9	2664.3	2650.6	2633.5	2618.1	2609.5	2597.5	2599.2	2599.2	2619.8	2626.6
30°	2539.3	2520.5	2508.5	2481.1	2469.1	2448.6	2445.1	2445.1	2441.7	2452.0	2482.8
32.5°	2393.8	2368.1	2349.2	2323.6	2303.0	2282.5	2272.2	2277.3	2275.6	2301.3	2311.6
35°	2234.5	2219.1	2179.7	2147.2	2135.2	2104.4	2104.4	2089.0	2099.3	2128.4	2140.4
37.5°	2066.7	2042.8	2010.2	1974.3	1965.7	1941.7	1933.2	1924.6	1946.9	1952.0	1964.0
40°	1895.5	1873.2	1842.4	1808.2	1808.2	1779.1	1779.1	1779.1	1780.8	1791.0	1813.3
42.5°	1732.8	1708.9	1681.5	1657.5	1654.1	1631.8	1631.8	1630.1	1633.5	1642.1	1662.6
45°	1575.3	1556.5	1527.4	1515.4	1517.1	1493.1	1498.2	1493.1	1500.0	1508.5	1515.4
47.5°	1429.8	1417.8	1405.8	1388.7	1383.5	1381.8	1373.2	1366.4	1378.4	1378.4	1388.7
50°	1294.5	1287.6	1280.8	1270.5	1272.2	1265.4	1255.1	1255.1	1263.7	1265.4	1272.2
52.5°	1176.3	1167.8	1159.2	1160.9	1162.6	1159.2	1154.1	1148.9	1154.1	1157.5	1166.1
55°	1058.2	1051.3	1059.9	1056.5	1059.9	1056.5	1053.1	1049.6	1058.2	1053.1	1061.6
57.5°	952.0	958.9	962.3	955.5	960.6	957.2	958.9	953.7	960.6	964.0	962.3
60°	854.4	864.7	859.6	861.3	868.1	864.7	857.9	863.0	869.8	871.6	869.8
62.5°	765.4	777.4	782.5	779.1	780.8	777.4	782.5	775.7	784.2	787.6	782.5
65°	684.9	698.6	702.0	702.0	702.0	698.6	703.7	705.5	708.9	708.9	705.5
67.5°	616.4	628.4	631.8	635.3	631.8	628.4	628.4	630.1	637.0	640.4	637.0
70°	554.8	566.8	568.5	568.5	570.2	573.6	566.8	570.2	575.3	577.0	575.3
72.5°	501.7	513.7	517.1	515.4	517.1	518.8	518.8	515.4	520.5	524.0	524.0
75°	458.9	465.7	469.2	469.2	470.9	472.6	472.6	470.9	474.3	476.0	477.7
77.5°	419.5	424.6	429.8	429.8	431.5	429.8	433.2	433.2	434.9	436.6	438.3
80°	380.1	387.0	390.4	392.1	395.5	397.2	397.2	397.2	399.0	400.7	400.7
82.5°	349.3	354.4	359.6	364.7	364.7	366.4	366.4	366.4	368.1	368.1	369.9
85°	318.5	325.3	330.5	333.9	335.6	337.3	337.3	339.0	339.0	339.0	340.7
87.5°	291.1	299.6	303.1	306.5	308.2	311.6	311.6	311.6	313.3	313.3	313.3
90°	272.3	280.8	284.2	287.7	289.4	291.1	291.1	292.8	292.8	294.5	294.5
92.5°	250.0	258.6	265.4	265.4	267.1	270.5	268.8	268.8	270.5	272.3	272.3
95°	232.9	239.7	244.9	246.6	248.3	248.3	248.3	250.0	248.3	250.0	250.0
97.5°	212.3	219.2	224.3	227.7	229.4	229.4	229.4	231.2	229.4	231.2	231.2
100°	195.2	202.0	207.2	208.9	212.3	212.3	212.3	212.3	212.3	212.3	214.0
102.5°	181.5	188.4	191.8	193.5	195.2	196.9	196.9	196.9	196.9	198.6	198.6
105°	167.8	174.7	178.1	179.8	181.5	183.2	183.2	183.2	184.9	184.9	183.2
107.5°	155.8	161.0	164.4	167.8	169.5	169.5	171.2	171.2	171.2	171.2	171.2
110°	143.8	149.0	154.1	157.5	157.5	159.2	159.2	161.0	161.0	159.2	161.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-91SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	131.8	138.7	142.1	145.5	147.3	149.0	149.0	149.0	149.0	149.0	149.0
115°	121.6	128.4	131.8	135.3	137.0	138.7	138.7	138.7	138.7	138.7	138.7
117.5°	113.0	119.9	123.3	125.0	126.7	128.4	130.1	130.1	130.1	130.1	128.4
120°	104.4	109.6	113.0	116.4	118.1	119.9	119.9	119.9	119.9	119.9	119.9
122.5°	95.9	101.0	104.4	107.9	109.6	111.3	111.3	111.3	111.3	111.3	111.3
125°	87.3	92.5	95.9	99.3	101.0	102.7	102.7	102.7	102.7	102.7	102.7
127.5°	78.8	83.9	89.0	90.8	92.5	94.2	94.2	94.2	95.9	94.2	94.2
130°	70.2	75.3	80.5	82.2	83.9	85.6	87.3	87.3	87.3	87.3	85.6
132.5°	63.4	68.5	71.9	73.6	77.1	77.1	78.8	78.8	78.8	78.8	77.1
135°	58.2	61.6	65.1	66.8	70.2	70.2	70.2	71.9	71.9	70.2	68.5
137.5°	51.4	54.8	58.2	59.9	61.6	63.4	63.4	65.1	63.4	63.4	63.4
140°	47.9	49.7	53.1	54.8	56.5	56.5	56.5	58.2	58.2	56.5	56.5
142.5°	41.1	44.5	47.9	49.7	51.4	51.4	51.4	51.4	51.4	51.4	51.4
145°	34.2	39.4	41.1	44.5	44.5	46.2	46.2	46.2	46.2	46.2	44.5
147.5°	29.1	32.5	37.7	39.4	39.4	41.1	41.1	41.1	41.1	41.1	39.4
150°	22.3	25.7	30.8	34.2	34.2	36.0	36.0	36.0	36.0	34.2	34.2
152.5°	18.8	22.3	24.0	27.4	29.1	29.1	29.1	30.8	29.1	29.1	29.1
155°	17.1	18.8	20.5	22.3	24.0	25.7	25.7	25.7	25.7	24.0	24.0
157.5°	13.7	15.4	17.1	18.8	20.5	22.3	22.3	22.3	22.3	22.3	20.5
160°	10.3	12.0	13.7	13.7	15.4	17.1	18.8	17.1	17.1	17.1	17.1
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-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3112.9	3112.9	3112.9	3112.9	3112.9	3112.9	3112.9	3112.9	3112.9	3112.9	3112.9
2.5°	3106.1	3104.4	3109.5	3100.9	3075.3	3082.1	3078.7	3094.1	3097.5	3100.9	3116.4
5°	3106.1	3104.4	3107.8	3100.9	3073.5	3078.7	3075.3	3090.7	3094.1	3095.8	3111.2
7.5°	3099.2	3097.5	3102.7	3094.1	3065.0	3071.8	3066.7	3082.1	3083.8	3085.5	3099.2
10°	3085.5	3083.8	3087.2	3080.4	3051.3	3058.1	3051.3	3066.7	3066.7	3070.1	3080.4
12.5°	3065.0	3061.6	3068.4	3059.8	3027.3	3035.9	3032.4	3042.7	3044.4	3046.1	3056.4
15°	3035.9	3032.4	3037.6	3032.4	3003.3	3005.1	2999.9	3015.3	3017.0	3013.6	3023.9
17.5°	2993.1	2989.6	2999.9	2996.5	2967.4	2974.2	2972.5	2975.9	2981.1	2972.5	2986.2
20°	2940.0	2943.4	2946.8	2948.5	2926.3	2926.3	2924.6	2931.4	2936.6	2929.7	2940.0
22.5°	2861.2	2869.8	2880.1	2883.5	2868.1	2866.4	2876.6	2873.2	2878.3	2874.9	2881.8
25°	2761.9	2779.0	2789.3	2799.6	2791.0	2794.4	2809.9	2813.3	2813.3	2811.6	2818.4
27.5°	2638.6	2660.9	2679.7	2702.0	2693.4	2700.3	2726.0	2729.4	2736.2	2729.4	2743.1
30°	2491.4	2511.9	2547.9	2580.4	2583.8	2594.1	2630.1	2633.5	2652.3	2645.5	2650.6
32.5°	2344.1	2354.4	2395.5	2428.0	2448.6	2474.2	2513.6	2520.5	2546.2	2551.3	2551.3
35°	2159.2	2188.3	2226.0	2272.2	2297.9	2325.3	2378.4	2388.6	2426.3	2438.3	2452.0
37.5°	2003.4	2030.8	2054.7	2102.7	2148.9	2179.7	2222.5	2248.2	2287.6	2309.9	2327.0
40°	1837.3	1859.5	1885.2	1933.2	1972.5	2018.8	2061.6	2092.4	2142.1	2167.7	2190.0
42.5°	1679.7	1696.9	1724.3	1758.5	1799.6	1851.0	1892.1	1928.0	1981.1	2017.1	2042.8
45°	1539.3	1549.6	1573.6	1599.3	1635.2	1688.3	1727.7	1773.9	1816.7	1854.4	1885.2
47.5°	1407.5	1421.2	1433.2	1450.3	1482.8	1515.4	1561.6	1606.1	1648.9	1690.0	1720.8
50°	1285.9	1285.9	1304.8	1316.7	1339.0	1368.1	1404.1	1434.9	1488.0	1517.1	1556.5
52.5°	1167.8	1174.6	1184.9	1191.7	1208.9	1227.7	1256.8	1282.5	1327.0	1354.4	1392.1
55°	1063.3	1070.2	1075.3	1078.7	1089.0	1111.3	1121.5	1142.1	1172.9	1195.2	1227.7
57.5°	964.0	967.4	972.6	974.3	976.0	989.7	998.3	1003.4	1034.2	1056.5	1083.9
60°	873.3	873.3	878.4	876.7	875.0	881.8	880.1	885.2	904.1	917.8	929.8
62.5°	787.6	787.6	789.4	785.9	784.2	784.2	777.4	782.5	787.6	789.4	797.9
65°	708.9	717.4	710.6	712.3	702.0	698.6	695.2	684.9	683.2	676.4	679.8
67.5°	638.7	645.5	638.7	638.7	630.1	623.3	614.7	597.6	592.4	578.8	575.3
70°	582.2	577.0	580.5	575.3	565.1	556.5	544.5	530.8	513.7	496.6	484.6
72.5°	527.4	527.4	524.0	518.8	513.7	496.6	482.9	467.5	446.9	424.6	407.5
75°	474.3	476.0	476.0	470.9	462.3	446.9	431.5	409.2	387.0	361.3	339.0
77.5°	436.6	436.6	436.6	428.1	419.5	405.8	387.0	363.0	339.0	308.2	282.5
80°	400.7	399.0	399.0	388.7	380.1	364.7	345.9	321.9	296.2	263.7	234.6
82.5°	371.6	369.9	366.4	357.9	345.9	330.5	311.6	286.0	258.6	229.4	193.5
85°	340.7	339.0	335.6	327.0	315.1	301.4	280.8	255.1	227.7	195.2	161.0
87.5°	313.3	311.6	306.5	301.4	287.7	272.3	251.7	227.7	198.6	167.8	133.6
90°	294.5	291.1	287.7	280.8	268.8	251.7	231.2	205.5	176.4	145.5	111.3
92.5°	272.3	270.5	265.4	258.6	248.3	231.2	210.6	186.6	157.5	128.4	95.9
95°	250.0	248.3	244.9	238.0	227.7	212.3	193.5	169.5	142.1	113.0	83.9
97.5°	229.4	229.4	224.3	219.2	207.2	195.2	176.4	154.1	128.4	102.7	75.3
100°	212.3	212.3	207.2	200.3	191.8	179.8	161.0	140.4	116.4	92.5	65.1
102.5°	196.9	195.2	191.8	184.9	176.4	164.4	147.3	128.4	106.2	82.2	58.2
105°	183.2	181.5	178.1	171.2	164.4	150.7	137.0	118.1	95.9	73.6	51.4
107.5°	169.5	167.8	166.1	159.2	150.7	138.7	125.0	106.2	87.3	66.8	46.2
110°	157.5	155.8	152.4	145.5	137.0	126.7	113.0	97.6	78.8	59.9	41.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-91SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	147.3	145.5	142.1	135.3	128.4	116.4	104.4	87.3	71.9	54.8	36.0
115°	137.0	135.3	131.8	125.0	116.4	106.2	94.2	80.5	63.4	47.9	32.5
117.5°	126.7	125.0	121.6	116.4	107.9	97.6	85.6	71.9	56.5	44.5	29.1
120°	118.1	114.7	111.3	106.2	97.6	89.0	77.1	65.1	51.4	39.4	25.7
122.5°	109.6	106.2	102.7	97.6	89.0	80.5	68.5	58.2	47.9	36.0	24.0
125°	99.3	97.6	94.2	89.0	80.5	71.9	63.4	53.1	42.8	32.5	20.5
127.5°	90.8	89.0	85.6	78.8	71.9	65.1	56.5	47.9	37.7	27.4	18.8
130°	83.9	80.5	77.1	71.9	66.8	59.9	51.4	42.8	34.2	24.0	17.1
132.5°	75.3	71.9	68.5	65.1	59.9	53.1	46.2	37.7	30.8	22.3	15.4
135°	68.5	65.1	61.6	58.2	53.1	47.9	41.1	34.2	27.4	20.5	13.7
137.5°	59.9	58.2	56.5	53.1	47.9	42.8	37.7	29.1	24.0	18.8	12.0
140°	54.8	53.1	51.4	46.2	42.8	37.7	32.5	25.7	20.5	15.4	10.3
142.5°	49.7	47.9	44.5	41.1	37.7	34.2	27.4	24.0	18.8	13.7	10.3
145°	42.8	41.1	39.4	36.0	32.5	27.4	24.0	20.5	17.1	12.0	8.6
147.5°	39.4	37.7	34.2	30.8	27.4	24.0	22.3	18.8	13.7	10.3	6.8
150°	32.5	30.8	29.1	25.7	24.0	22.3	18.8	15.4	12.0	8.6	6.8
152.5°	27.4	25.7	24.0	24.0	20.5	18.8	15.4	13.7	10.3	8.6	5.1
155°	24.0	24.0	22.3	20.5	17.1	15.4	13.7	10.3	8.6	6.8	5.1
157.5°	20.5	18.8	17.1	17.1	15.4	13.7	10.3	8.6	6.8	6.8	5.1
160°	17.1	15.4	15.4	13.7	12.0	10.3	8.6	8.6	6.8	5.1	5.1
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-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3112.9	3112.9	3112.9	3112.9	3112.9	3112.9	3112.9	3112.9	3112.9	3112.9	3112.9
2.5°	3118.1	3099.2	3116.4	3138.6	3138.6	3135.2	3131.8	3138.6	3155.7	3148.9	3128.3
5°	3112.9	3094.1	3109.5	3131.8	3131.8	3126.6	3123.2	3128.3	3147.2	3138.6	3119.8
7.5°	3102.7	3085.5	3095.8	3116.4	3116.4	3111.2	3107.8	3114.6	3130.1	3121.5	3100.9
10°	3083.8	3065.0	3077.0	3095.8	3094.1	3090.7	3085.5	3094.1	3107.8	3095.8	3071.8
12.5°	3059.8	3041.0	3051.3	3068.4	3066.7	3059.8	3056.4	3061.6	3073.5	3066.7	3041.0
15°	3027.3	3008.5	3017.0	3034.2	3029.0	3023.9	3017.0	3018.8	3034.2	3022.2	2994.8
17.5°	2987.9	2967.4	2974.2	2989.6	2984.5	2979.4	2970.8	2972.5	2989.6	2972.5	2943.4
20°	2940.0	2917.7	2922.9	2941.7	2933.1	2924.6	2916.0	2916.0	2933.1	2914.3	2881.8
22.5°	2888.6	2866.4	2869.8	2883.5	2876.6	2861.2	2852.7	2857.8	2866.4	2842.4	2808.1
25°	2825.3	2796.2	2801.3	2815.0	2809.9	2789.3	2780.7	2784.2	2780.7	2761.9	2726.0
27.5°	2751.6	2720.8	2724.2	2732.8	2726.0	2707.1	2696.8	2698.6	2691.7	2667.7	2626.6
30°	2659.2	2643.8	2642.0	2647.2	2636.9	2618.1	2606.1	2602.7	2601.0	2566.7	2517.1
32.5°	2565.0	2551.3	2542.7	2549.6	2537.6	2518.8	2498.2	2498.2	2481.1	2448.6	2405.8
35°	2469.1	2446.8	2438.3	2443.4	2429.7	2405.8	2388.6	2380.1	2354.4	2313.3	2267.1
37.5°	2345.8	2330.4	2320.1	2325.3	2309.9	2292.7	2260.2	2251.6	2224.3	2167.7	2109.5
40°	2212.3	2200.3	2190.0	2195.1	2178.0	2152.3	2123.2	2109.5	2078.7	2015.4	1969.1
42.5°	2068.4	2063.3	2051.3	2070.1	2035.9	2010.2	1981.1	1958.8	1928.0	1859.5	1806.5
45°	1916.0	1928.0	1900.6	1905.8	1883.5	1861.2	1830.4	1797.9	1767.1	1702.0	1642.1
47.5°	1755.1	1763.6	1744.8	1748.2	1724.3	1703.7	1676.3	1635.2	1601.0	1544.5	1491.4
50°	1589.0	1585.6	1585.6	1582.1	1563.3	1537.6	1510.2	1472.6	1438.3	1386.9	1342.4
52.5°	1412.6	1419.5	1422.9	1431.5	1407.5	1392.1	1349.3	1316.7	1291.1	1238.0	1200.3
55°	1243.1	1267.1	1260.2	1263.7	1236.3	1224.3	1190.0	1164.4	1126.7	1095.9	1071.9
57.5°	1089.0	1094.1	1097.6	1102.7	1090.7	1066.8	1039.4	1018.8	989.7	964.0	946.9
60°	940.0	940.0	941.8	950.3	938.3	917.8	897.2	881.8	861.3	845.9	835.6
62.5°	799.6	811.6	813.3	806.5	791.1	780.8	767.1	758.5	744.8	739.7	736.3
65°	669.5	669.5	669.5	672.9	664.4	657.5	649.0	647.2	652.4	645.5	649.0
67.5°	559.9	554.8	551.4	553.1	549.6	546.2	544.5	549.6	559.9	559.9	568.5
70°	465.7	455.5	448.6	448.6	448.6	450.3	455.5	465.7	482.9	489.7	501.7
72.5°	388.7	366.4	356.2	356.2	357.9	364.7	380.1	399.0	414.4	428.1	443.5
75°	315.1	292.8	277.4	275.7	279.1	289.4	311.6	328.8	354.4	373.3	392.1
77.5°	255.1	227.7	208.9	207.2	212.3	227.7	255.1	277.4	306.5	327.0	347.6
80°	203.8	172.9	157.5	147.3	155.8	174.7	205.5	232.9	260.3	287.7	313.3
82.5°	162.7	133.6	109.6	99.3	109.6	135.3	164.4	196.9	224.3	253.4	279.1
85°	128.4	97.6	70.2	59.9	71.9	99.3	131.8	164.4	195.2	224.3	250.0
87.5°	101.0	70.2	42.8	29.1	44.5	73.6	104.4	137.0	169.5	198.6	224.3
90°	78.8	49.7	24.0	3.4	25.7	53.1	83.9	114.7	147.3	176.4	202.0
92.5°	66.8	37.7	13.7	0.0	15.4	39.4	68.5	99.3	128.4	157.5	183.2
95°	56.5	30.8	10.3	0.0	10.3	30.8	56.5	83.9	113.0	142.1	167.8
97.5°	47.9	24.0	6.8	0.0	6.8	24.0	46.2	73.6	99.3	126.7	150.7
100°	41.1	20.5	5.1	0.0	5.1	18.8	39.4	63.4	89.0	114.7	137.0
102.5°	36.0	17.1	3.4	0.0	3.4	15.4	32.5	54.8	77.1	101.0	123.3
105°	30.8	13.7	3.4	0.0	1.7	12.0	27.4	47.9	68.5	90.8	111.3
107.5°	27.4	12.0	3.4	0.0	1.7	10.3	24.0	41.1	61.6	80.5	99.3
110°	24.0	10.3	3.4	0.0	1.7	6.8	20.5	36.0	53.1	71.9	90.8



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-91SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	20.5	8.6	1.7	0.0	0.0	5.1	17.1	30.8	46.2	65.1	80.5
115°	18.8	8.6	1.7	0.0	0.0	3.4	13.7	27.4	41.1	58.2	71.9
117.5°	17.1	6.8	1.7	0.0	1.7	3.4	12.0	24.0	36.0	49.7	65.1
120°	15.4	6.8	1.7	0.0	1.7	1.7	8.6	20.5	30.8	44.5	56.5
122.5°	13.7	6.8	1.7	0.0	1.7	1.7	6.8	17.1	27.4	39.4	49.7
125°	12.0	5.1	3.4	1.7	1.7	1.7	5.1	13.7	24.0	32.5	44.5
127.5°	12.0	5.1	3.4	1.7	1.7	1.7	3.4	12.0	18.8	29.1	39.4
130°	10.3	5.1	3.4	1.7	1.7	1.7	1.7	8.6	17.1	24.0	32.5
132.5°	8.6	5.1	3.4	1.7	1.7	1.7	1.7	5.1	12.0	20.5	27.4
135°	8.6	5.1	3.4	1.7	1.7	1.7	1.7	3.4	8.6	15.4	22.3
137.5°	6.8	3.4	3.4	1.7	1.7	1.7	1.7	1.7	6.8	12.0	17.1
140°	6.8	3.4	3.4	1.7	1.7	1.7	1.7	1.7	5.1	8.6	13.7
142.5°	5.1	3.4	3.4	1.7	1.7	1.7	1.7	1.7	3.4	6.8	10.3
145°	5.1	3.4	3.4	1.7	1.7	1.7	1.7	1.7	1.7	3.4	6.8
147.5°	5.1	5.1	3.4	1.7	1.7	1.7	1.7	1.7	1.7	3.4	5.1
150°	5.1	3.4	3.4	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.4
152.5°	5.1	3.4	3.4	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.4
155°	5.1	3.4	3.4	1.7	1.7	1.7	1.7	1.7	1.7	3.4	3.4
157.5°	5.1	3.4	3.4	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.4
160°	5.1	3.4	3.4	1.7	3.4	1.7	3.4	3.4	3.4	3.4	3.4
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-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3112.9	3112.9	3112.9	3112.9	3112.9	3112.9	3112.9	3112.9	3112.9	3112.9	3112.9
2.5°	3121.5	3089.0	3106.1	3100.9	3107.8	3121.5	3119.8	3116.4	3116.4	3111.2	3104.4
5°	3111.2	3080.4	3095.8	3087.2	3095.8	3107.8	3106.1	3100.9	3104.4	3095.8	3087.2
7.5°	3090.7	3063.3	3077.0	3070.1	3077.0	3089.0	3083.8	3082.1	3085.5	3071.8	3066.7
10°	3066.7	3035.9	3051.3	3042.7	3051.3	3059.8	3056.4	3049.6	3056.4	3042.7	3037.6
12.5°	3029.0	3003.3	3013.6	3010.2	3015.3	3023.9	3017.0	3011.9	3015.3	3003.3	2993.1
15°	2987.9	2962.2	2970.8	2965.7	2969.1	2979.4	2967.4	2965.7	2962.2	2950.3	2946.8
17.5°	2934.8	2910.9	2919.4	2910.9	2916.0	2912.6	2910.9	2902.3	2902.3	2888.6	2878.3
20°	2869.8	2849.2	2844.1	2837.2	2844.1	2837.2	2827.0	2820.1	2818.4	2804.7	2796.2
22.5°	2794.4	2770.5	2773.9	2755.1	2756.8	2746.5	2729.4	2722.5	2715.7	2700.3	2688.3
25°	2703.7	2679.7	2662.6	2650.6	2635.2	2633.5	2611.2	2594.1	2592.4	2573.6	2571.8
27.5°	2601.0	2573.6	2559.9	2530.8	2511.9	2496.5	2477.7	2460.5	2452.0	2431.4	2417.7
30°	2482.8	2452.0	2417.7	2397.2	2368.1	2356.1	2323.6	2303.0	2296.2	2273.9	2263.6
32.5°	2349.2	2316.7	2289.3	2249.9	2217.4	2200.3	2167.7	2147.2	2138.6	2114.7	2101.0
35°	2203.7	2167.7	2135.2	2097.5	2071.9	2042.8	2003.4	1982.8	1964.0	1955.4	1945.2
37.5°	2051.3	2011.9	1974.3	1936.6	1914.3	1880.1	1845.8	1832.1	1809.9	1801.3	1791.0
40°	1893.8	1854.4	1818.4	1782.5	1756.8	1726.0	1695.2	1690.0	1666.0	1657.5	1650.6
42.5°	1738.0	1696.9	1655.8	1630.1	1611.3	1580.4	1559.9	1554.8	1534.2	1529.1	1529.1
45°	1597.6	1546.2	1511.9	1489.7	1474.3	1448.6	1431.5	1428.0	1410.9	1407.5	1407.5
47.5°	1446.9	1398.9	1373.2	1359.6	1345.9	1327.0	1316.7	1316.7	1299.6	1296.2	1294.5
50°	1306.5	1262.0	1243.1	1229.4	1227.7	1214.0	1205.4	1202.0	1202.0	1190.0	1191.7
52.5°	1172.9	1150.7	1135.2	1126.7	1116.4	1107.8	1101.0	1101.0	1095.9	1087.3	1090.7
55°	1049.6	1023.9	1025.7	1018.8	1013.7	1008.5	1010.2	1000.0	998.3	991.4	996.5
57.5°	926.3	926.3	922.9	917.8	909.2	912.6	912.6	912.6	904.1	898.9	904.1
60°	821.9	827.0	818.5	823.6	820.2	821.9	818.5	818.5	813.3	811.6	813.3
62.5°	729.4	738.0	734.6	741.4	738.0	739.7	743.1	736.3	732.9	729.4	732.9
65°	647.2	657.5	655.8	660.9	662.7	664.4	666.1	662.7	659.2	655.8	654.1
67.5°	575.3	585.6	592.4	594.2	595.9	601.0	599.3	595.9	592.4	587.3	585.6
70°	510.3	524.0	532.5	535.9	542.8	539.4	539.4	537.7	534.2	529.1	527.4
72.5°	455.5	470.9	479.4	482.9	489.7	489.7	488.0	486.3	482.9	477.7	476.0
75°	407.5	421.2	433.2	440.1	445.2	445.2	443.5	441.8	438.3	434.9	433.2
77.5°	369.9	381.8	392.1	400.7	404.1	405.8	404.1	400.7	400.7	399.0	397.2
80°	332.2	345.9	356.2	364.7	369.9	369.9	368.1	369.9	366.4	364.7	363.0
82.5°	299.6	315.1	327.0	335.6	339.0	340.7	339.0	340.7	337.3	337.3	337.3
85°	270.5	286.0	299.6	306.5	311.6	313.3	313.3	313.3	311.6	311.6	311.6
87.5°	246.6	262.0	275.7	282.5	287.7	289.4	289.4	291.1	287.7	287.7	287.7
90°	224.3	239.7	253.4	260.3	265.4	268.8	268.8	270.5	268.8	267.1	267.1
92.5°	203.8	220.9	234.6	241.4	246.6	251.7	251.7	253.4	250.0	250.0	250.0
95°	186.6	203.8	215.7	224.3	229.4	232.9	234.6	234.6	232.9	232.9	232.9
97.5°	171.2	186.6	198.6	207.2	212.3	214.0	215.7	217.5	215.7	215.7	215.7
100°	155.8	171.2	183.2	190.1	196.9	198.6	200.3	202.0	202.0	200.3	200.3
102.5°	142.1	157.5	167.8	176.4	181.5	184.9	186.6	186.6	186.6	186.6	186.6
105°	128.4	143.8	154.1	162.7	167.8	171.2	172.9	174.7	174.7	172.9	172.9
107.5°	116.4	130.1	142.1	149.0	155.8	159.2	161.0	161.0	162.7	161.0	161.0
110°	104.4	119.9	130.1	137.0	143.8	147.3	149.0	150.7	150.7	150.7	150.7



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-91SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	95.9	107.9	118.1	125.0	131.8	135.3	137.0	138.7	140.4	138.7	138.7
115°	85.6	97.6	107.9	114.7	119.9	123.3	126.7	128.4	128.4	130.1	128.4
117.5°	77.1	87.3	97.6	104.4	109.6	114.7	116.4	118.1	119.9	118.1	118.1
120°	68.5	78.8	87.3	94.2	99.3	104.4	106.2	107.9	109.6	107.9	107.9
122.5°	61.6	70.2	78.8	85.6	90.8	94.2	97.6	97.6	99.3	99.3	99.3
125°	54.8	63.4	70.2	77.1	82.2	85.6	87.3	89.0	89.0	90.8	90.8
127.5°	47.9	54.8	63.4	68.5	73.6	77.1	78.8	80.5	80.5	82.2	82.2
130°	41.1	47.9	54.8	59.9	65.1	68.5	70.2	71.9	73.6	73.6	73.6
132.5°	36.0	42.8	47.9	53.1	56.5	59.9	63.4	65.1	65.1	65.1	65.1
135°	29.1	36.0	41.1	46.2	49.7	53.1	54.8	58.2	58.2	58.2	58.2
137.5°	24.0	30.8	36.0	39.4	42.8	46.2	47.9	49.7	51.4	51.4	51.4
140°	18.8	24.0	29.1	34.2	37.7	39.4	42.8	42.8	44.5	44.5	44.5
142.5°	13.7	18.8	22.3	27.4	30.8	34.2	36.0	37.7	37.7	37.7	37.7
145°	10.3	13.7	17.1	20.5	25.7	27.4	29.1	30.8	32.5	32.5	32.5
147.5°	6.8	10.3	12.0	15.4	18.8	22.3	24.0	25.7	27.4	27.4	27.4
150°	5.1	6.8	10.3	12.0	13.7	17.1	20.5	20.5	22.3	22.3	20.5
152.5°	3.4	5.1	6.8	8.6	10.3	12.0	15.4	15.4	17.1	17.1	17.1
155°	3.4	3.4	3.4	5.1	6.8	8.6	10.3	12.0	12.0	12.0	12.0
157.5°	3.4	3.4	3.4	3.4	3.4	5.1	6.8	8.6	8.6	8.6	8.6
160°	3.4	3.4	1.7	1.7	3.4	3.4	3.4	3.4	5.1	5.1	5.1
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-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3112.9	3112.9	3112.9	3112.9	3112.9	3112.9	3112.9	3112.9	3112.9	3112.9	3112.9
2.5°	3109.5	3112.9	3112.9	3109.5	3107.8	3114.6	3106.1	3073.5	3083.8	3087.2	3097.5
5°	3094.1	3097.5	3097.5	3097.5	3094.1	3100.9	3092.4	3059.8	3071.8	3077.0	3083.8
7.5°	3071.8	3073.5	3077.0	3075.3	3071.8	3082.1	3073.5	3041.0	3049.6	3058.1	3066.7
10°	3042.7	3042.7	3044.4	3047.9	3044.4	3053.0	3044.4	3015.3	3023.9	3029.0	3039.3
12.5°	3003.3	3006.8	3008.5	3006.8	3005.1	3011.9	3008.5	2981.1	2984.5	2994.8	3005.1
15°	2950.3	2950.3	2958.8	2955.4	2955.4	2962.2	2965.7	2934.8	2940.0	2955.4	2965.7
17.5°	2885.2	2886.9	2893.8	2897.2	2895.5	2907.5	2909.2	2885.2	2883.5	2902.3	2912.6
20°	2801.3	2804.7	2813.3	2820.1	2820.1	2833.8	2839.0	2823.6	2825.3	2845.8	2849.2
22.5°	2698.6	2698.6	2714.0	2724.2	2732.8	2741.4	2756.8	2743.1	2743.1	2770.5	2785.9
25°	2571.8	2583.8	2589.0	2609.5	2621.5	2645.5	2659.2	2660.9	2662.6	2688.3	2698.6
27.5°	2431.4	2434.9	2450.3	2474.2	2487.9	2510.2	2535.9	2541.0	2549.6	2583.8	2599.2
30°	2272.2	2282.5	2289.3	2323.6	2342.4	2371.5	2404.0	2416.0	2422.9	2469.1	2487.9
32.5°	2109.5	2113.0	2142.1	2160.9	2183.2	2214.0	2251.6	2273.9	2287.6	2335.6	2362.9
35°	1946.9	1953.7	1977.7	2001.7	2023.9	2054.7	2094.1	2124.9	2148.9	2191.7	2227.7
37.5°	1797.9	1815.0	1820.2	1844.1	1861.2	1892.1	1919.5	1964.0	1988.0	2032.5	2078.7
40°	1664.3	1669.5	1672.9	1696.9	1708.9	1738.0	1777.3	1806.5	1839.0	1871.5	1926.3
42.5°	1532.5	1535.9	1541.1	1554.8	1568.4	1589.0	1618.1	1647.2	1681.5	1729.4	1765.4
45°	1410.9	1414.3	1417.8	1426.3	1438.3	1457.2	1476.0	1496.5	1530.8	1571.9	1609.5
47.5°	1297.9	1304.8	1304.8	1306.5	1315.0	1330.4	1344.1	1369.8	1388.7	1410.9	1453.7
50°	1190.0	1195.2	1196.9	1196.9	1202.0	1212.3	1215.7	1232.8	1250.0	1270.5	1301.3
52.5°	1089.0	1089.0	1087.3	1094.1	1094.1	1101.0	1102.7	1113.0	1125.0	1147.2	1160.9
55°	993.1	993.1	998.3	994.8	994.8	998.3	996.5	998.3	1008.5	1022.2	1034.2
57.5°	900.7	898.9	904.1	900.7	898.9	902.4	905.8	898.9	900.7	914.4	914.4
60°	808.2	809.9	815.0	811.6	811.6	811.6	808.2	804.8	801.3	809.9	813.3
62.5°	734.6	729.4	734.6	729.4	732.9	731.1	727.7	720.9	722.6	719.2	715.7
65°	657.5	657.5	659.2	654.1	657.5	657.5	652.4	650.7	640.4	637.0	628.4
67.5°	590.7	590.7	592.4	589.0	589.0	590.7	585.6	580.5	570.2	565.1	553.1
70°	532.5	532.5	532.5	530.8	530.8	530.8	527.4	520.5	510.3	501.7	486.3
72.5°	479.4	481.2	479.4	479.4	484.6	479.4	474.3	467.5	458.9	441.8	428.1
75°	436.6	438.3	436.6	436.6	436.6	434.9	433.2	422.9	412.7	399.0	378.4
77.5°	399.0	399.0	400.7	399.0	399.0	397.2	392.1	383.6	371.6	359.6	335.6
80°	363.0	364.7	366.4	368.1	364.7	363.0	357.9	351.0	335.6	321.9	297.9
82.5°	337.3	335.6	337.3	339.0	335.6	333.9	328.8	320.2	308.2	289.4	265.4
85°	311.6	309.9	309.9	311.6	309.9	306.5	301.4	292.8	280.8	262.0	238.0
87.5°	286.0	287.7	289.4	287.7	286.0	282.5	277.4	268.8	255.1	239.7	214.0
90°	267.1	267.1	267.1	267.1	265.4	262.0	256.8	246.6	234.6	215.7	193.5
92.5°	250.0	250.0	250.0	250.0	248.3	243.1	238.0	229.4	215.7	196.9	176.4
95°	232.9	234.6	232.9	232.9	229.4	227.7	219.2	210.6	198.6	179.8	157.5
97.5°	214.0	215.7	214.0	214.0	212.3	208.9	203.8	193.5	181.5	164.4	143.8
100°	200.3	200.3	198.6	198.6	196.9	193.5	186.6	178.1	166.1	149.0	128.4
102.5°	184.9	186.6	184.9	184.9	181.5	178.1	172.9	164.4	152.4	135.3	116.4
105°	172.9	172.9	171.2	171.2	167.8	164.4	159.2	149.0	138.7	123.3	104.4
107.5°	161.0	161.0	159.2	159.2	155.8	152.4	145.5	137.0	126.7	111.3	94.2
110°	149.0	149.0	149.0	147.3	143.8	138.7	133.6	125.0	114.7	101.0	83.9



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-91SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	140.4	138.7	137.0	135.3	131.8	128.4	121.6	113.0	102.7	90.8	75.3
115°	128.4	128.4	126.7	125.0	121.6	116.4	111.3	104.4	94.2	80.5	66.8
117.5°	118.1	118.1	116.4	114.7	111.3	106.2	101.0	94.2	83.9	71.9	59.9
120°	107.9	107.9	106.2	104.4	101.0	95.9	92.5	83.9	75.3	63.4	53.1
122.5°	99.3	97.6	97.6	94.2	92.5	87.3	82.2	75.3	66.8	56.5	46.2
125°	89.0	89.0	87.3	85.6	83.9	78.8	73.6	66.8	58.2	49.7	41.1
127.5°	80.5	80.5	78.8	77.1	75.3	70.2	65.1	59.9	51.4	42.8	34.2
130°	71.9	71.9	70.2	68.5	66.8	61.6	58.2	51.4	44.5	37.7	29.1
132.5°	65.1	65.1	63.4	61.6	58.2	54.8	51.4	44.5	39.4	32.5	25.7
135°	58.2	56.5	56.5	54.8	51.4	47.9	44.5	39.4	32.5	27.4	20.5
137.5°	51.4	49.7	47.9	46.2	44.5	41.1	37.7	34.2	29.1	22.3	17.1
140°	44.5	42.8	42.8	41.1	37.7	36.0	32.5	27.4	24.0	18.8	13.7
142.5°	37.7	37.7	36.0	34.2	32.5	30.8	27.4	24.0	18.8	15.4	10.3
145°	32.5	30.8	30.8	29.1	27.4	24.0	22.3	18.8	15.4	12.0	8.6
147.5°	25.7	25.7	25.7	24.0	22.3	20.5	18.8	15.4	12.0	8.6	5.1
150°	20.5	20.5	20.5	18.8	17.1	15.4	13.7	12.0	8.6	5.1	3.4
152.5°	17.1	17.1	15.4	15.4	13.7	12.0	10.3	8.6	5.1	3.4	3.4
155°	12.0	12.0	12.0	10.3	10.3	8.6	6.8	5.1	3.4	3.4	3.4
157.5°	8.6	8.6	8.6	6.8	6.8	5.1	5.1	3.4	3.4	3.4	3.4
160°	5.1	5.1	5.1	5.1	3.4	3.4	3.4	3.4	3.4	3.4	3.4
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-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3112.9	3112.9	3112.9	3112.9	3112.9	3112.9	3112.9
2.5°	3092.4	3090.7	3104.4	3104.4	3089.0	3112.9	3138.6
5°	3082.1	3080.4	3094.1	3094.1	3080.4	3104.4	3131.8
7.5°	3061.6	3063.3	3077.0	3080.4	3063.3	3085.5	3114.6
10°	3039.3	3037.6	3053.0	3056.4	3042.7	3063.3	3090.7
12.5°	3003.3	3003.3	3018.8	3023.9	3010.2	3034.2	3059.8
15°	2965.7	2965.7	2975.9	2984.5	2972.5	2994.8	3020.5
17.5°	2917.7	2916.0	2926.3	2936.6	2924.6	2948.5	2975.9
20°	2856.1	2856.1	2868.1	2880.1	2871.5	2893.8	2924.6
22.5°	2791.0	2784.2	2804.7	2813.3	2808.1	2830.4	2861.2
25°	2708.8	2707.1	2727.7	2739.6	2732.8	2756.8	2784.2
27.5°	2619.8	2618.1	2638.6	2654.0	2650.6	2672.9	2703.7
30°	2511.9	2520.5	2539.3	2565.0	2556.4	2580.4	2612.9
32.5°	2398.9	2407.5	2429.7	2457.1	2458.8	2477.7	2510.2
35°	2263.6	2285.9	2301.3	2337.3	2344.1	2362.9	2397.2
37.5°	2121.5	2147.2	2179.7	2207.1	2220.8	2236.2	2275.6
40°	1962.3	1999.9	2035.9	2068.4	2085.6	2101.0	2138.6
42.5°	1818.4	1847.6	1881.8	1914.3	1945.2	1958.8	1998.2
45°	1655.8	1690.0	1720.8	1760.2	1791.0	1806.5	1845.8
47.5°	1496.5	1530.8	1571.9	1599.3	1631.8	1647.2	1684.9
50°	1344.1	1375.0	1409.2	1441.7	1469.1	1482.8	1515.4
52.5°	1193.5	1226.0	1258.5	1279.1	1308.2	1318.5	1345.9
55°	1059.9	1082.2	1111.3	1123.3	1152.4	1159.2	1178.0
57.5°	931.5	946.9	957.2	977.7	998.3	1013.7	1035.9
60°	815.0	821.9	828.7	840.7	857.9	863.0	871.6
62.5°	710.6	708.9	722.6	726.0	727.7	744.8	736.3
65°	618.1	619.8	607.9	602.7	609.6	614.7	611.3
67.5°	541.1	530.8	520.5	508.5	498.3	503.4	498.3
70°	465.7	457.2	440.1	422.9	416.1	405.8	400.7
72.5°	405.8	385.3	368.1	345.9	333.9	321.9	313.3
75°	359.6	330.5	306.5	282.5	265.4	248.3	244.9
77.5°	311.6	284.2	256.8	231.2	205.5	186.6	179.8
80°	274.0	248.3	215.7	184.9	157.5	133.6	125.0
82.5°	239.7	212.3	179.8	147.3	116.4	90.8	80.5
85°	210.6	181.5	149.0	116.4	85.6	58.2	44.5
87.5°	188.4	155.8	123.3	92.5	59.9	32.5	17.1
90°	167.8	137.0	106.2	73.6	42.8	17.1	0.0
92.5°	149.0	119.9	89.0	59.9	32.5	10.3	1.7
95°	131.8	106.2	75.3	47.9	24.0	6.8	1.7
97.5°	118.1	92.5	65.1	39.4	18.8	5.1	1.7
100°	106.2	80.5	56.5	32.5	15.4	3.4	1.7
102.5°	94.2	71.9	47.9	27.4	12.0	1.7	1.7
105°	83.9	63.4	41.1	24.0	10.3	1.7	1.7
107.5°	75.3	56.5	36.0	20.5	6.8	1.7	1.7
110°	66.8	47.9	30.8	17.1	5.1	1.7	1.7



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-91SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	59.9	42.8	27.4	13.7	3.4	1.7	1.7
115°	53.1	37.7	24.0	12.0	3.4	1.7	1.7
117.5°	46.2	32.5	20.5	8.6	1.7	1.7	1.7
120°	41.1	29.1	17.1	6.8	1.7	1.7	1.7
122.5°	36.0	24.0	13.7	5.1	1.7	1.7	1.7
125°	30.8	20.5	12.0	3.4	1.7	1.7	1.7
127.5°	25.7	17.1	8.6	3.4	1.7	1.7	1.7
130°	22.3	13.7	6.8	1.7	1.7	1.7	1.7
132.5°	18.8	10.3	5.1	1.7	1.7	1.7	1.7
135°	15.4	8.6	3.4	1.7	1.7	1.7	1.7
137.5°	12.0	6.8	3.4	1.7	1.7	1.7	1.7
140°	8.6	5.1	1.7	1.7	1.7	1.7	1.7
142.5°	6.8	3.4	1.7	1.7	1.7	1.7	1.7
145°	5.1	3.4	1.7	1.7	1.7	1.7	1.7
147.5°	3.4	3.4	3.4	3.4	1.7	1.7	1.7
150°	3.4	3.4	1.7	1.7	3.4	1.7	1.7
152.5°	3.4	1.7	1.7	1.7	3.4	1.7	1.7
155°	3.4	3.4	3.4	3.4	3.4	3.4	1.7
157.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4
160°	3.4	3.4	3.4	3.4	3.4	3.4	3.4
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)