

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-LD5-98SL-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-LD5-98SL-LN-UNV-L935-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

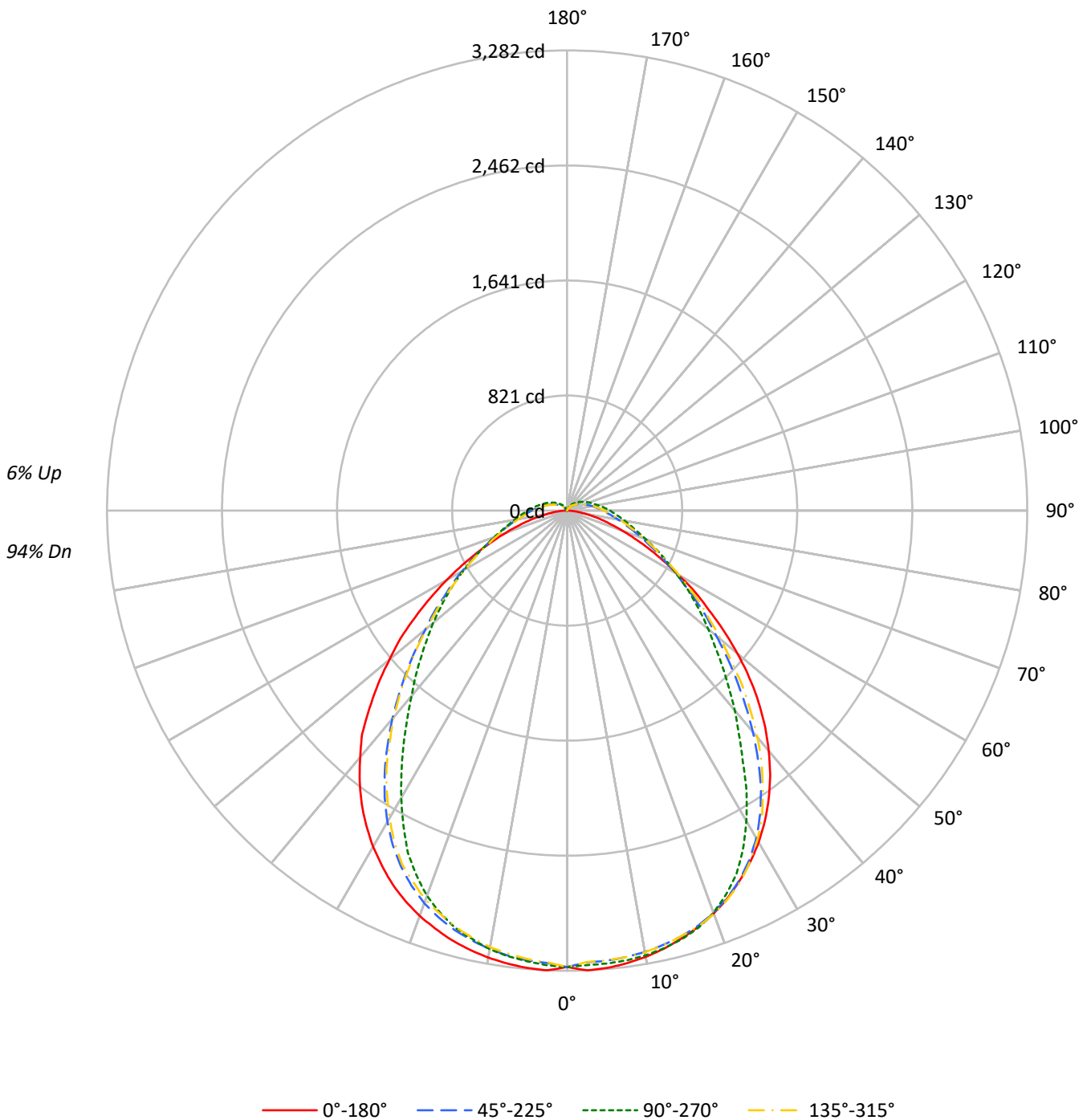
Lumens per Lamp: N/A
Luminaire Lumens: 8238.0 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 75
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°	13153	13153	13153	13153
5°	13265	12734	13265	12677
10°	13224	12396	13246	12223
15°	13157	12025	13217	11712
20°	13075	11549	13152	11061
25°	12886	10842	13028	10204
30°	12634	9805	12800	9077
35°	12231	8532	12467	7945
40°	11643	7462	11951	6924
45°	10860	6487	11213	6115
50°	9779	5700	10209	5412
55°	8489	5034	9105	4779
60°	7171	4419	7819	4165
65°	5913	3907	6510	3623
70°	4746	3467	5314	3207
75°	3776	3202	4253	2946
80°	2794	3089	3292	2823
85°	1833	3106	2466	2856



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.6	3.7
10°-20°	884.9	10.7
20°-30°	1311.5	15.9
30°-40°	1457.0	17.7
40°-50°	1320.8	16.0
50°-60°	1023.5	12.4
60°-70°	695.0	8.4
70°-80°	442.2	5.4
80°-90°	282.7	3.4
90°-100°	190.6	2.3
100°-110°	130.6	1.6
110°-120°	87.1	1.1
120°-130°	54.2	0.7
130°-140°	30.0	0.4
140°-150°	14.1	0.2
150°-160°	5.2	0.1
160°-170°	0.3	0.0
170°-180°	0.0	0.0
0°-30°	2505.0	30.4
0°-40°	3962.0	48.1
0°-60°	6306.3	76.6
0°-90°	7726.1	93.8
90°-120°	408.2	5.0
90°-150°	506.4	6.1
90°-180°	512.0	6.2
0°-180°	8238.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3255	3255	3255	3255	3255	
5°	3275	3243	3275	3228	3275	311
15°	3158	3164	3173	3082	3158	891
25°	2911	2858	2944	2689	2911	1341
35°	2507	2184	2555	2034	2507	1564
45°	1930	1561	1993	1472	1930	1482
55°	1232	1098	1321	1042	1232	1109
65°	639	738	704	684	639	641
75°	256	492	288	453	256	276
85°	47	354	63	326	47	56
90°	0	306	4	279	0	3
95°	2	261	0	244	2	1
105°	2	192	0	181	2	2
115°	2	145	0	134	2	2
125°	2	107	2	95	2	2
135°	2	75	2	61	2	1
145°	2	48	2	34	2	1
155°	2	27	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°	3255.2	3255.2	3255.2	3255.2	3255.2	3255.2	3255.2	3255.2	3255.2	3255.2	3255.2
2.5°	3282.0	3278.5	3274.9	3269.5	3274.9	3289.2	3280.2	3260.5	3257.0	3224.7	3239.1
5°	3274.9	3269.5	3265.9	3260.5	3267.7	3285.6	3276.7	3258.8	3253.4	3222.9	3239.1
7.5°	3257.0	3253.4	3248.0	3248.0	3255.2	3273.1	3265.9	3246.2	3242.6	3212.2	3230.1
10°	3231.9	3230.1	3226.5	3226.5	3233.7	3255.2	3246.2	3228.3	3224.7	3196.1	3215.8
12.5°	3199.7	3201.5	3196.1	3196.1	3206.8	3228.3	3221.2	3201.5	3197.9	3172.8	3192.5
15°	3158.5	3160.3	3156.7	3158.5	3169.2	3194.3	3185.3	3167.4	3163.9	3144.2	3160.3
17.5°	3111.9	3113.7	3113.7	3111.9	3124.5	3149.5	3142.4	3126.3	3120.9	3104.8	3124.5
20°	3058.2	3058.2	3058.2	3058.2	3072.5	3097.6	3088.7	3076.1	3065.4	3052.8	3069.0
22.5°	2992.0	2990.2	2992.0	2997.3	3011.7	3031.4	3026.0	3011.7	2995.6	2988.4	3000.9
25°	2911.4	2916.8	2918.6	2923.9	2941.8	2958.0	2952.6	2938.3	2913.2	2907.8	2911.4
27.5°	2827.2	2830.8	2836.2	2834.4	2859.5	2875.6	2864.8	2852.3	2816.5	2811.1	2807.5
30°	2732.3	2737.7	2741.3	2739.5	2759.2	2777.1	2766.4	2750.2	2701.9	2698.3	2669.7
32.5°	2624.9	2630.3	2633.9	2633.9	2662.5	2669.7	2650.0	2626.7	2574.8	2562.2	2537.2
35°	2506.7	2512.1	2513.9	2513.9	2542.5	2540.8	2515.7	2483.5	2426.2	2410.0	2367.1
37.5°	2379.6	2383.2	2385.0	2395.7	2408.3	2397.5	2365.3	2324.1	2281.1	2236.4	2189.8
40°	2236.4	2241.7	2245.3	2252.5	2265.0	2252.5	2205.9	2155.8	2109.2	2059.1	2012.6
42.5°	2089.5	2105.7	2102.1	2100.3	2107.5	2073.4	2037.6	1980.3	1933.8	1881.8	1835.3
45°	1930.2	1928.4	1937.4	1940.9	1939.1	1910.5	1860.4	1808.4	1761.9	1708.2	1668.8
47.5°	1761.9	1760.1	1767.3	1770.8	1760.1	1729.6	1690.3	1631.2	1591.8	1545.2	1514.8
50°	1584.6	1584.6	1595.4	1584.6	1579.2	1548.8	1516.6	1457.5	1427.1	1385.9	1368.0
52.5°	1407.4	1423.5	1412.7	1409.1	1403.8	1373.3	1348.3	1299.9	1274.9	1257.0	1235.5
55°	1231.9	1249.8	1242.6	1237.3	1235.5	1210.4	1187.1	1151.3	1135.2	1122.7	1110.1
57.5°	1083.3	1081.5	1077.9	1072.5	1074.3	1054.6	1031.3	1011.6	1004.5	999.1	1002.7
60°	911.4	925.7	920.3	922.1	923.9	920.3	900.6	888.1	889.9	891.7	897.1
62.5°	769.9	782.5	791.4	784.3	787.8	793.2	782.5	778.9	786.0	793.2	800.4
65°	639.2	651.8	660.7	658.9	669.7	680.4	678.6	682.2	698.3	707.3	716.2
67.5°	521.0	533.6	546.1	547.9	564.0	580.1	587.3	599.8	617.7	630.3	641.0
70°	419.0	429.7	444.1	453.0	474.5	496.0	508.5	533.6	544.3	562.2	569.4
72.5°	327.7	336.6	356.3	377.8	395.7	422.6	447.6	469.1	485.2	504.9	513.9
75°	256.0	259.6	281.1	306.2	331.2	361.7	388.5	411.8	433.3	453.0	467.3
77.5°	188.0	193.4	213.1	247.1	275.7	308.0	338.4	363.5	386.8	406.4	426.1
80°	130.7	141.5	162.9	197.0	229.2	265.0	293.6	322.3	347.4	367.1	386.8
82.5°	84.2	93.1	123.5	157.6	191.6	227.4	257.8	286.5	313.3	334.8	352.7
85°	46.6	59.1	89.5	125.3	159.4	195.2	227.4	256.0	282.9	302.6	320.5
87.5°	17.9	35.8	64.5	98.5	132.5	166.5	200.5	227.4	254.3	275.7	291.9
90°	0.0	21.5	48.3	82.4	116.4	150.4	182.6	211.3	236.3	256.0	274.0
92.5°	1.8	14.3	37.6	66.2	98.5	130.7	161.1	189.8	214.9	234.6	250.7
95°	1.8	10.7	30.4	57.3	85.9	116.4	145.0	171.9	195.2	214.9	231.0
97.5°	1.8	7.2	25.1	50.1	75.2	105.6	132.5	157.6	179.1	198.7	211.3
100°	1.8	7.2	21.5	43.0	68.0	94.9	120.0	145.0	164.7	180.8	195.2
102.5°	1.8	5.4	17.9	37.6	60.9	84.2	109.2	132.5	150.4	166.5	180.8
105°	1.8	5.4	16.1	32.2	53.7	77.0	98.5	120.0	139.7	154.0	166.5
107.5°	1.8	3.6	14.3	26.9	46.6	69.8	91.3	109.2	127.1	141.5	154.0
110°	1.8	3.6	12.5	25.1	41.2	62.7	82.4	100.3	116.4	130.7	141.5



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CATALOG NUMBER: 8SNLED-LD5-98SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.8	3.6	10.7	23.3	37.6	55.5	75.2	91.3	107.4	120.0	130.7
115°	1.8	3.6	10.7	21.5	34.0	48.3	66.2	84.2	96.7	111.0	120.0
117.5°	1.8	3.6	9.0	17.9	32.2	44.8	60.9	75.2	89.5	102.1	111.0
120°	1.8	3.6	9.0	16.1	28.6	41.2	53.7	68.0	82.4	91.3	100.3
122.5°	1.8	3.6	7.2	16.1	25.1	37.6	48.3	60.9	73.4	84.2	93.1
125°	1.8	3.6	7.2	14.3	23.3	34.0	44.8	53.7	66.2	75.2	84.2
127.5°	1.8	3.6	7.2	12.5	21.5	30.4	41.2	50.1	59.1	68.0	75.2
130°	1.8	3.6	5.4	10.7	19.7	26.9	35.8	46.6	53.7	60.9	68.0
132.5°	1.8	3.6	5.4	10.7	16.1	23.3	32.2	41.2	48.3	55.5	60.9
135°	1.8	3.6	5.4	9.0	14.3	21.5	26.9	35.8	43.0	50.1	55.5
137.5°	1.8	3.6	5.4	9.0	12.5	17.9	23.3	30.4	37.6	43.0	50.1
140°	1.8	3.6	5.4	7.2	10.7	16.1	21.5	25.1	32.2	37.6	43.0
142.5°	1.8	3.6	5.4	7.2	10.7	14.3	17.9	21.5	26.9	32.2	37.6
145°	1.8	3.6	5.4	7.2	9.0	12.5	16.1	19.7	21.5	26.9	30.4
147.5°	1.8	3.6	5.4	7.2	7.2	10.7	14.3	16.1	19.7	21.5	25.1
150°	1.8	3.6	5.4	5.4	7.2	9.0	12.5	14.3	16.1	19.7	21.5
152.5°	1.8	3.6	5.4	5.4	7.2	9.0	10.7	12.5	14.3	16.1	17.9
155°	1.8	3.6	5.4	5.4	5.4	7.2	9.0	10.7	12.5	14.3	16.1
157.5°	3.6	3.6	3.6	5.4	5.4	7.2	7.2	9.0	10.7	10.7	12.5
160°	3.6	3.6	3.6	5.4	5.4	5.4	7.2	7.2	9.0	9.0	10.7
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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3255.2	3255.2	3255.2	3255.2	3255.2	3255.2	3255.2	3255.2	3255.2	3255.2	3255.2
2.5°	3235.5	3240.9	3257.0	3257.0	3253.4	3249.8	3249.8	3244.4	3248.0	3255.2	3251.6
5°	3235.5	3240.9	3257.0	3257.0	3253.4	3249.8	3248.0	3242.6	3248.0	3255.2	3251.6
7.5°	3224.7	3231.9	3248.0	3248.0	3244.4	3242.6	3239.1	3235.5	3240.9	3248.0	3244.4
10°	3210.4	3217.6	3233.7	3233.7	3230.1	3230.1	3224.7	3221.2	3228.3	3233.7	3231.9
12.5°	3188.9	3197.9	3212.2	3210.4	3206.8	3208.6	3203.3	3196.1	3203.3	3208.6	3210.4
15°	3158.5	3169.2	3183.6	3180.0	3174.6	3178.2	3169.2	3163.9	3169.2	3180.0	3178.2
17.5°	3119.1	3126.3	3137.0	3137.0	3131.6	3128.1	3124.5	3119.1	3122.7	3129.8	3131.6
20°	3063.6	3072.5	3077.9	3072.5	3070.8	3065.4	3058.2	3052.8	3060.0	3070.8	3072.5
22.5°	2990.2	2992.0	3004.5	2992.0	2983.0	2981.2	2974.1	2963.3	2974.1	2983.0	2984.8
25°	2898.9	2907.8	2902.4	2881.0	2881.0	2866.6	2863.1	2857.7	2859.5	2875.6	2882.7
27.5°	2782.5	2786.1	2771.7	2753.8	2737.7	2728.8	2716.2	2718.0	2718.0	2739.5	2746.7
30°	2655.4	2635.7	2623.1	2594.5	2581.9	2560.5	2556.9	2556.9	2553.3	2564.0	2596.3
32.5°	2503.2	2476.3	2456.6	2429.7	2408.3	2386.8	2376.0	2381.4	2379.6	2406.5	2417.2
35°	2336.6	2320.5	2279.3	2245.3	2232.8	2200.6	2200.6	2184.4	2195.2	2225.6	2238.2
37.5°	2161.2	2136.1	2102.1	2064.5	2055.5	2030.5	2021.5	2012.6	2035.8	2041.2	2053.7
40°	1982.1	1958.8	1926.6	1890.8	1890.8	1860.4	1860.4	1860.4	1862.1	1872.9	1896.2
42.5°	1812.0	1786.9	1758.3	1733.2	1729.6	1706.4	1706.4	1704.6	1708.2	1717.1	1738.6
45°	1647.3	1627.6	1597.2	1584.6	1586.4	1561.3	1566.7	1561.3	1568.5	1577.5	1584.6
47.5°	1495.1	1482.6	1470.0	1452.1	1446.7	1445.0	1436.0	1428.8	1441.4	1441.4	1452.1
50°	1353.6	1346.5	1339.3	1328.6	1330.4	1323.2	1312.5	1312.5	1321.4	1323.2	1330.4
52.5°	1230.1	1221.1	1212.2	1214.0	1215.8	1212.2	1206.8	1201.4	1206.8	1210.4	1219.3
55°	1106.5	1099.4	1108.3	1104.8	1108.3	1104.8	1101.2	1097.6	1106.5	1101.2	1110.1
57.5°	995.5	1002.7	1006.3	999.1	1004.5	1000.9	1002.7	997.3	1004.5	1008.1	1006.3
60°	893.5	904.2	898.8	900.6	907.8	904.2	897.1	902.4	909.6	911.4	909.6
62.5°	800.4	812.9	818.3	814.7	816.5	812.9	818.3	811.1	820.1	823.6	818.3
65°	716.2	730.5	734.1	734.1	734.1	730.5	735.9	737.7	741.3	741.3	737.7
67.5°	644.6	657.1	660.7	664.3	660.7	657.1	657.1	658.9	666.1	669.7	666.1
70°	580.1	592.7	594.5	594.5	596.2	599.8	592.7	596.2	601.6	603.4	601.6
72.5°	524.6	537.2	540.7	538.9	540.7	542.5	542.5	538.9	544.3	547.9	547.9
75°	479.9	487.0	490.6	490.6	492.4	494.2	494.2	492.4	496.0	497.8	499.6
77.5°	438.7	444.1	449.4	449.4	451.2	449.4	453.0	453.0	454.8	456.6	458.4
80°	397.5	404.7	408.2	410.0	413.6	415.4	415.4	415.4	417.2	419.0	419.0
82.5°	365.3	370.6	376.0	381.4	381.4	383.2	383.2	383.2	385.0	385.0	386.8
85°	333.0	340.2	345.6	349.2	350.9	352.7	352.7	354.5	354.5	354.5	356.3
87.5°	304.4	313.3	316.9	320.5	322.3	325.9	325.9	325.9	327.7	327.7	327.7
90°	284.7	293.6	297.2	300.8	302.6	304.4	304.4	306.2	306.2	308.0	308.0
92.5°	261.4	270.4	277.5	277.5	279.3	282.9	281.1	281.1	282.9	284.7	284.7
95°	243.5	250.7	256.0	257.8	259.6	259.6	259.6	261.4	259.6	261.4	261.4
97.5°	222.0	229.2	234.6	238.1	239.9	239.9	239.9	241.7	239.9	241.7	241.7
100°	204.1	211.3	216.7	218.4	222.0	222.0	222.0	222.0	222.0	222.0	223.8
102.5°	189.8	197.0	200.5	202.3	204.1	205.9	205.9	205.9	205.9	207.7	207.7
105°	175.5	182.6	186.2	188.0	189.8	191.6	191.6	191.6	193.4	193.4	191.6
107.5°	162.9	168.3	171.9	175.5	177.3	177.3	179.1	179.1	179.1	179.1	179.1
110°	150.4	155.8	161.1	164.7	164.7	166.5	166.5	168.3	168.3	166.5	168.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-98SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	137.9	145.0	148.6	152.2	154.0	155.8	155.8	155.8	155.8	155.8	155.8
115°	127.1	134.3	137.9	141.5	143.2	145.0	145.0	145.0	145.0	145.0	145.0
117.5°	118.2	125.3	128.9	130.7	132.5	134.3	136.1	136.1	136.1	136.1	134.3
120°	109.2	114.6	118.2	121.8	123.5	125.3	125.3	125.3	125.3	125.3	125.3
122.5°	100.3	105.6	109.2	112.8	114.6	116.4	116.4	116.4	116.4	116.4	116.4
125°	91.3	96.7	100.3	103.9	105.6	107.4	107.4	107.4	107.4	107.4	107.4
127.5°	82.4	87.7	93.1	94.9	96.7	98.5	98.5	98.5	100.3	98.5	98.5
130°	73.4	78.8	84.2	85.9	87.7	89.5	91.3	91.3	91.3	91.3	89.5
132.5°	66.2	71.6	75.2	77.0	80.6	80.6	82.4	82.4	82.4	82.4	80.6
135°	60.9	64.5	68.0	69.8	73.4	73.4	73.4	75.2	75.2	73.4	71.6
137.5°	53.7	57.3	60.9	62.7	64.5	66.2	66.2	68.0	66.2	66.2	66.2
140°	50.1	51.9	55.5	57.3	59.1	59.1	59.1	60.9	60.9	59.1	59.1
142.5°	43.0	46.6	50.1	51.9	53.7	53.7	53.7	53.7	53.7	53.7	53.7
145°	35.8	41.2	43.0	46.6	46.6	48.3	48.3	48.3	48.3	48.3	46.6
147.5°	30.4	34.0	39.4	41.2	41.2	43.0	43.0	43.0	43.0	43.0	41.2
150°	23.3	26.9	32.2	35.8	35.8	37.6	37.6	37.6	37.6	35.8	35.8
152.5°	19.7	23.3	25.1	28.6	30.4	30.4	30.4	32.2	30.4	30.4	30.4
155°	17.9	19.7	21.5	23.3	25.1	26.9	26.9	26.9	26.9	25.1	25.1
157.5°	14.3	16.1	17.9	19.7	21.5	23.3	23.3	23.3	23.3	23.3	21.5
160°	10.7	12.5	14.3	14.3	16.1	17.9	19.7	17.9	17.9	17.9	17.9
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-98SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3255.2	3255.2	3255.2	3255.2	3255.2	3255.2	3255.2	3255.2	3255.2	3255.2	3255.2
2.5°	3248.0	3246.2	3251.6	3242.6	3215.8	3222.9	3219.4	3235.5	3239.1	3242.6	3258.8
5°	3248.0	3246.2	3249.8	3242.6	3214.0	3219.4	3215.8	3231.9	3235.5	3237.3	3253.4
7.5°	3240.9	3239.1	3244.4	3235.5	3205.0	3212.2	3206.8	3222.9	3224.7	3226.5	3240.9
10°	3226.5	3224.7	3228.3	3221.2	3190.7	3197.9	3190.7	3206.8	3206.8	3210.4	3221.2
12.5°	3205.0	3201.5	3208.6	3199.7	3165.7	3174.6	3171.0	3181.8	3183.6	3185.3	3196.1
15°	3174.6	3171.0	3176.4	3171.0	3140.6	3142.4	3137.0	3153.1	3154.9	3151.3	3162.1
17.5°	3129.8	3126.3	3137.0	3133.4	3103.0	3110.1	3108.4	3111.9	3117.3	3108.4	3122.7
20°	3074.3	3077.9	3081.5	3083.3	3060.0	3060.0	3058.2	3065.4	3070.8	3063.6	3074.3
22.5°	2992.0	3000.9	3011.7	3015.2	2999.1	2997.3	3008.1	3004.5	3009.9	3006.3	3013.5
25°	2888.1	2906.0	2916.8	2927.5	2918.6	2922.1	2938.3	2941.8	2941.8	2940.0	2947.2
27.5°	2759.2	2782.5	2802.2	2825.5	2816.5	2823.7	2850.5	2854.1	2861.3	2854.1	2868.4
30°	2605.2	2626.7	2664.3	2698.3	2701.9	2712.6	2750.2	2753.8	2773.5	2766.4	2771.7
32.5°	2451.2	2462.0	2504.9	2539.0	2560.5	2587.3	2628.5	2635.7	2662.5	2667.9	2667.9
35°	2257.9	2288.3	2327.7	2376.0	2402.9	2431.5	2487.0	2497.8	2537.2	2549.7	2564.0
37.5°	2094.9	2123.6	2148.6	2198.8	2247.1	2279.3	2324.1	2351.0	2392.1	2415.4	2433.3
40°	1921.2	1944.5	1971.4	2021.5	2062.7	2111.0	2155.8	2188.0	2239.9	2266.8	2290.1
42.5°	1756.5	1774.4	1803.1	1838.9	1881.8	1935.6	1978.5	2016.1	2071.6	2109.2	2136.1
45°	1609.7	1620.4	1645.5	1672.4	1710.0	1765.5	1806.6	1855.0	1899.7	1939.1	1971.4
47.5°	1471.8	1486.1	1498.7	1516.6	1550.6	1584.6	1633.0	1679.5	1724.3	1767.3	1799.5
50°	1344.7	1344.7	1364.4	1376.9	1400.2	1430.6	1468.2	1500.5	1556.0	1586.4	1627.6
52.5°	1221.1	1228.3	1239.0	1246.2	1264.1	1283.8	1314.2	1341.1	1387.7	1416.3	1455.7
55°	1111.9	1119.1	1124.5	1128.0	1138.8	1162.1	1172.8	1194.3	1226.5	1249.8	1283.8
57.5°	1008.1	1011.6	1017.0	1018.8	1020.6	1034.9	1043.9	1049.2	1081.5	1104.8	1133.4
60°	913.2	913.2	918.5	916.7	915.0	922.1	920.3	925.7	945.4	959.7	972.3
62.5°	823.6	823.6	825.4	821.9	820.1	820.1	812.9	818.3	823.6	825.4	834.4
65°	741.3	750.2	743.1	744.9	734.1	730.5	727.0	716.2	714.4	707.3	710.8
67.5°	667.9	675.0	667.9	667.9	658.9	651.8	642.8	624.9	619.5	605.2	601.6
70°	608.8	603.4	607.0	601.6	590.9	581.9	569.4	555.1	537.2	519.3	506.7
72.5°	551.5	551.5	547.9	542.5	537.2	519.3	504.9	488.8	467.3	444.1	426.1
75°	496.0	497.8	497.8	492.4	483.4	467.3	451.2	427.9	404.7	377.8	354.5
77.5°	456.6	456.6	456.6	447.6	438.7	424.4	404.7	379.6	354.5	322.3	295.4
80°	419.0	417.2	417.2	406.4	397.5	381.4	361.7	336.6	309.8	275.7	245.3
82.5°	388.5	386.8	383.2	374.2	361.7	345.6	325.9	299.0	270.4	239.9	202.3
85°	356.3	354.5	350.9	342.0	329.5	315.1	293.6	266.8	238.1	204.1	168.3
87.5°	327.7	325.9	320.5	315.1	300.8	284.7	263.2	238.1	207.7	175.5	139.7
90°	308.0	304.4	300.8	293.6	281.1	263.2	241.7	214.9	184.4	152.2	116.4
92.5°	284.7	282.9	277.5	270.4	259.6	241.7	220.2	195.2	164.7	134.3	100.3
95°	261.4	259.6	256.0	248.9	238.1	222.0	202.3	177.3	148.6	118.2	87.7
97.5°	239.9	239.9	234.6	229.2	216.7	204.1	184.4	161.1	134.3	107.4	78.8
100°	222.0	222.0	216.7	209.5	200.5	188.0	168.3	146.8	121.8	96.7	68.0
102.5°	205.9	204.1	200.5	193.4	184.4	171.9	154.0	134.3	111.0	85.9	60.9
105°	191.6	189.8	186.2	179.1	171.9	157.6	143.2	123.5	100.3	77.0	53.7
107.5°	177.3	175.5	173.7	166.5	157.6	145.0	130.7	111.0	91.3	69.8	48.3
110°	164.7	162.9	159.4	152.2	143.2	132.5	118.2	102.1	82.4	62.7	43.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-98SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	154.0	152.2	148.6	141.5	134.3	121.8	109.2	91.3	75.2	57.3	37.6
115°	143.2	141.5	137.9	130.7	121.8	111.0	98.5	84.2	66.2	50.1	34.0
117.5°	132.5	130.7	127.1	121.8	112.8	102.1	89.5	75.2	59.1	46.6	30.4
120°	123.5	120.0	116.4	111.0	102.1	93.1	80.6	68.0	53.7	41.2	26.9
122.5°	114.6	111.0	107.4	102.1	93.1	84.2	71.6	60.9	50.1	37.6	25.1
125°	103.9	102.1	98.5	93.1	84.2	75.2	66.2	55.5	44.8	34.0	21.5
127.5°	94.9	93.1	89.5	82.4	75.2	68.0	59.1	50.1	39.4	28.6	19.7
130°	87.7	84.2	80.6	75.2	69.8	62.7	53.7	44.8	35.8	25.1	17.9
132.5°	78.8	75.2	71.6	68.0	62.7	55.5	48.3	39.4	32.2	23.3	16.1
135°	71.6	68.0	64.5	60.9	55.5	50.1	43.0	35.8	28.6	21.5	14.3
137.5°	62.7	60.9	59.1	55.5	50.1	44.8	39.4	30.4	25.1	19.7	12.5
140°	57.3	55.5	53.7	48.3	44.8	39.4	34.0	26.9	21.5	16.1	10.7
142.5°	51.9	50.1	46.6	43.0	39.4	35.8	28.6	25.1	19.7	14.3	10.7
145°	44.8	43.0	41.2	37.6	34.0	28.6	25.1	21.5	17.9	12.5	9.0
147.5°	41.2	39.4	35.8	32.2	28.6	25.1	23.3	19.7	14.3	10.7	7.2
150°	34.0	32.2	30.4	26.9	25.1	23.3	19.7	16.1	12.5	9.0	7.2
152.5°	28.6	26.9	25.1	25.1	21.5	19.7	16.1	14.3	10.7	9.0	5.4
155°	25.1	25.1	23.3	21.5	17.9	16.1	14.3	10.7	9.0	7.2	5.4
157.5°	21.5	19.7	17.9	17.9	16.1	14.3	10.7	9.0	7.2	7.2	5.4
160°	17.9	16.1	16.1	14.3	12.5	10.7	9.0	9.0	7.2	5.4	5.4
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-LD5-98SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3255.2	3255.2	3255.2	3255.2	3255.2	3255.2	3255.2	3255.2	3255.2	3255.2	3255.2
2.5°	3260.5	3240.9	3258.8	3282.0	3282.0	3278.5	3274.9	3282.0	3299.9	3292.8	3271.3
5°	3255.2	3235.5	3251.6	3274.9	3274.9	3269.5	3265.9	3271.3	3291.0	3282.0	3262.3
7.5°	3244.4	3226.5	3237.3	3258.8	3258.8	3253.4	3249.8	3257.0	3273.1	3264.1	3242.6
10°	3224.7	3205.0	3217.6	3237.3	3235.5	3231.9	3226.5	3235.5	3249.8	3237.3	3212.2
12.5°	3199.7	3180.0	3190.7	3208.6	3206.8	3199.7	3196.1	3201.5	3214.0	3206.8	3180.0
15°	3165.7	3146.0	3154.9	3172.8	3167.4	3162.1	3154.9	3156.7	3172.8	3160.3	3131.6
17.5°	3124.5	3103.0	3110.1	3126.3	3120.9	3115.5	3106.6	3108.4	3126.3	3108.4	3077.9
20°	3074.3	3051.1	3056.4	3076.1	3067.2	3058.2	3049.3	3049.3	3067.2	3047.5	3013.5
22.5°	3020.6	2997.3	3000.9	3015.2	3008.1	2992.0	2983.0	2988.4	2997.3	2972.3	2936.5
25°	2954.4	2923.9	2929.3	2943.6	2938.3	2916.8	2907.8	2911.4	2907.8	2888.1	2850.5
27.5°	2877.4	2845.1	2848.7	2857.7	2850.5	2830.8	2820.1	2821.9	2814.7	2789.6	2746.7
30°	2780.7	2764.6	2762.8	2768.2	2757.4	2737.7	2725.2	2721.6	2719.8	2684.0	2632.1
32.5°	2682.2	2667.9	2658.9	2666.1	2653.6	2633.9	2612.4	2612.4	2594.5	2560.5	2515.7
35°	2581.9	2558.7	2549.7	2555.1	2540.8	2515.7	2497.8	2488.8	2462.0	2419.0	2370.7
37.5°	2453.0	2436.9	2426.2	2431.5	2415.4	2397.5	2363.5	2354.5	2325.9	2266.8	2205.9
40°	2313.4	2300.8	2290.1	2295.5	2277.6	2250.7	2220.3	2205.9	2173.7	2107.5	2059.1
42.5°	2163.0	2157.6	2145.1	2164.7	2128.9	2102.1	2071.6	2048.4	2016.1	1944.5	1889.0
45°	2003.6	2016.1	1987.5	1992.9	1969.6	1946.3	1914.1	1880.1	1847.8	1779.8	1717.1
47.5°	1835.3	1844.2	1824.5	1828.1	1803.1	1781.6	1752.9	1710.0	1674.1	1615.1	1559.5
50°	1661.6	1658.0	1658.0	1654.4	1634.8	1607.9	1579.2	1539.9	1504.0	1450.3	1403.8
52.5°	1477.2	1484.3	1487.9	1496.9	1471.8	1455.7	1410.9	1376.9	1350.1	1294.6	1255.2
55°	1299.9	1325.0	1317.8	1321.4	1292.8	1280.2	1244.4	1217.6	1178.2	1145.9	1120.9
57.5°	1138.8	1144.1	1147.7	1153.1	1140.6	1115.5	1086.8	1065.4	1034.9	1008.1	990.2
60°	983.0	983.0	984.8	993.7	981.2	959.7	938.2	922.1	900.6	884.5	873.8
62.5°	836.2	848.7	850.5	843.3	827.2	816.5	802.2	793.2	778.9	773.5	769.9
65°	700.1	700.1	700.1	703.7	694.7	687.6	678.6	676.8	682.2	675.0	678.6
67.5°	585.5	580.1	576.5	578.3	574.8	571.2	569.4	574.8	585.5	585.5	594.5
70°	487.0	476.3	469.1	469.1	469.1	470.9	476.3	487.0	504.9	512.1	524.6
72.5°	406.4	383.2	372.4	372.4	374.2	381.4	397.5	417.2	433.3	447.6	463.7
75°	329.5	306.2	290.1	288.3	291.9	302.6	325.9	343.8	370.6	390.3	410.0
77.5°	266.8	238.1	218.4	216.7	222.0	238.1	266.8	290.1	320.5	342.0	363.5
80°	213.1	180.8	164.7	154.0	162.9	182.6	214.9	243.5	272.2	300.8	327.7
82.5°	170.1	139.7	114.6	103.9	114.6	141.5	171.9	205.9	234.6	265.0	291.9
85°	134.3	102.1	73.4	62.7	75.2	103.9	137.9	171.9	204.1	234.6	261.4
87.5°	105.6	73.4	44.8	30.4	46.6	77.0	109.2	143.2	177.3	207.7	234.6
90°	82.4	51.9	25.1	3.6	26.9	55.5	87.7	120.0	154.0	184.4	211.3
92.5°	69.8	39.4	14.3	0.0	16.1	41.2	71.6	103.9	134.3	164.7	191.6
95°	59.1	32.2	10.7	0.0	10.7	32.2	59.1	87.7	118.2	148.6	175.5
97.5°	50.1	25.1	7.2	0.0	7.2	25.1	48.3	77.0	103.9	132.5	157.6
100°	43.0	21.5	5.4	0.0	5.4	19.7	41.2	66.2	93.1	120.0	143.2
102.5°	37.6	17.9	3.6	0.0	3.6	16.1	34.0	57.3	80.6	105.6	128.9
105°	32.2	14.3	3.6	0.0	1.8	12.5	28.6	50.1	71.6	94.9	116.4
107.5°	28.6	12.5	3.6	0.0	1.8	10.7	25.1	43.0	64.5	84.2	103.9
110°	25.1	10.7	3.6	0.0	1.8	7.2	21.5	37.6	55.5	75.2	94.9



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-98SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	21.5	9.0	1.8	0.0	0.0	5.4	17.9	32.2	48.3	68.0	84.2
115°	19.7	9.0	1.8	0.0	0.0	3.6	14.3	28.6	43.0	60.9	75.2
117.5°	17.9	7.2	1.8	0.0	1.8	3.6	12.5	25.1	37.6	51.9	68.0
120°	16.1	7.2	1.8	0.0	1.8	1.8	9.0	21.5	32.2	46.6	59.1
122.5°	14.3	7.2	1.8	0.0	1.8	1.8	7.2	17.9	28.6	41.2	51.9
125°	12.5	5.4	3.6	1.8	1.8	1.8	5.4	14.3	25.1	34.0	46.6
127.5°	12.5	5.4	3.6	1.8	1.8	1.8	3.6	12.5	19.7	30.4	41.2
130°	10.7	5.4	3.6	1.8	1.8	1.8	1.8	9.0	17.9	25.1	34.0
132.5°	9.0	5.4	3.6	1.8	1.8	1.8	1.8	5.4	12.5	21.5	28.6
135°	9.0	5.4	3.6	1.8	1.8	1.8	1.8	3.6	9.0	16.1	23.3
137.5°	7.2	3.6	3.6	1.8	1.8	1.8	1.8	1.8	7.2	12.5	17.9
140°	7.2	3.6	3.6	1.8	1.8	1.8	1.8	1.8	5.4	9.0	14.3
142.5°	5.4	3.6	3.6	1.8	1.8	1.8	1.8	1.8	3.6	7.2	10.7
145°	5.4	3.6	3.6	1.8	1.8	1.8	1.8	1.8	1.8	3.6	7.2
147.5°	5.4	5.4	3.6	1.8	1.8	1.8	1.8	1.8	1.8	3.6	5.4
150°	5.4	3.6	3.6	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.6
152.5°	5.4	3.6	3.6	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.6
155°	5.4	3.6	3.6	1.8	1.8	1.8	1.8	1.8	1.8	3.6	3.6
157.5°	5.4	3.6	3.6	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.6
160°	5.4	3.6	3.6	1.8	3.6	1.8	3.6	3.6	3.6	3.6	3.6
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-LD5-98SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3255.2	3255.2	3255.2	3255.2	3255.2	3255.2	3255.2	3255.2	3255.2	3255.2	3255.2
2.5°	3264.1	3230.1	3248.0	3242.6	3249.8	3264.1	3262.3	3258.8	3258.8	3253.4	3246.2
5°	3253.4	3221.2	3237.3	3228.3	3237.3	3249.8	3248.0	3242.6	3246.2	3237.3	3228.3
7.5°	3231.9	3203.3	3217.6	3210.4	3217.6	3230.1	3224.7	3222.9	3226.5	3212.2	3206.8
10°	3206.8	3174.6	3190.7	3181.8	3190.7	3199.7	3196.1	3188.9	3196.1	3181.8	3176.4
12.5°	3167.4	3140.6	3151.3	3147.7	3153.1	3162.1	3154.9	3149.5	3153.1	3140.6	3129.8
15°	3124.5	3097.6	3106.6	3101.2	3104.8	3115.5	3103.0	3101.2	3097.6	3085.1	3081.5
17.5°	3069.0	3043.9	3052.8	3043.9	3049.3	3045.7	3043.9	3034.9	3034.9	3020.6	3009.9
20°	3000.9	2979.4	2974.1	2966.9	2974.1	2966.9	2956.2	2949.0	2947.2	2932.9	2923.9
22.5°	2922.1	2897.1	2900.7	2881.0	2882.7	2872.0	2854.1	2846.9	2839.8	2823.7	2811.1
25°	2827.2	2802.2	2784.3	2771.7	2755.6	2753.8	2730.6	2712.6	2710.9	2691.2	2689.4
27.5°	2719.8	2691.2	2676.8	2646.4	2626.7	2610.6	2590.9	2573.0	2564.0	2542.5	2528.2
30°	2596.3	2564.0	2528.2	2506.7	2476.3	2463.8	2429.7	2408.3	2401.1	2377.8	2367.1
32.5°	2456.6	2422.6	2393.9	2352.8	2318.7	2300.8	2266.8	2245.3	2236.4	2211.3	2197.0
35°	2304.4	2266.8	2232.8	2193.4	2166.5	2136.1	2094.9	2073.4	2053.7	2044.8	2034.0
37.5°	2145.1	2103.9	2064.5	2025.1	2001.8	1966.0	1930.2	1915.9	1892.6	1883.6	1872.9
40°	1980.3	1939.1	1901.5	1863.9	1837.1	1804.9	1772.6	1767.3	1742.2	1733.2	1726.1
42.5°	1817.4	1774.4	1731.4	1704.6	1684.9	1652.7	1631.2	1625.8	1604.3	1598.9	1598.9
45°	1670.6	1616.8	1581.0	1557.8	1541.6	1514.8	1496.9	1493.3	1475.4	1471.8	1471.8
47.5°	1513.0	1462.9	1436.0	1421.7	1407.4	1387.7	1376.9	1376.9	1359.0	1355.4	1353.6
50°	1366.2	1319.6	1299.9	1285.6	1283.8	1269.5	1260.5	1257.0	1257.0	1244.4	1246.2
52.5°	1226.5	1203.2	1187.1	1178.2	1167.4	1158.5	1151.3	1151.3	1145.9	1137.0	1140.6
55°	1097.6	1070.7	1072.5	1065.4	1060.0	1054.6	1056.4	1045.7	1043.9	1036.7	1042.1
57.5°	968.7	968.7	965.1	959.7	950.8	954.4	954.4	954.4	945.4	940.0	945.4
60°	859.5	864.8	855.9	861.2	857.7	859.5	855.9	855.9	850.5	848.7	850.5
62.5°	762.8	771.7	768.1	775.3	771.7	773.5	777.1	769.9	766.3	762.8	766.3
65°	676.8	687.6	685.8	691.1	692.9	694.7	696.5	692.9	689.4	685.8	684.0
67.5°	601.6	612.4	619.5	621.3	623.1	628.5	626.7	623.1	619.5	614.2	612.4
70°	533.6	547.9	556.9	560.4	567.6	564.0	564.0	562.2	558.6	553.3	551.5
72.5°	476.3	492.4	501.3	504.9	512.1	512.1	510.3	508.5	504.9	499.6	497.8
75°	426.1	440.5	453.0	460.2	465.5	465.5	463.7	462.0	458.4	454.8	453.0
77.5°	386.8	399.3	410.0	419.0	422.6	424.4	422.6	419.0	419.0	417.2	415.4
80°	347.4	361.7	372.4	381.4	386.8	386.8	385.0	386.8	383.2	381.4	379.6
82.5°	313.3	329.5	342.0	350.9	354.5	356.3	354.5	356.3	352.7	352.7	352.7
85°	282.9	299.0	313.3	320.5	325.9	327.7	327.7	327.7	325.9	325.9	325.9
87.5°	257.8	274.0	288.3	295.4	300.8	302.6	302.6	304.4	300.8	300.8	300.8
90°	234.6	250.7	265.0	272.2	277.5	281.1	281.1	282.9	281.1	279.3	279.3
92.5°	213.1	231.0	245.3	252.5	257.8	263.2	263.2	265.0	261.4	261.4	261.4
95°	195.2	213.1	225.6	234.6	239.9	243.5	245.3	245.3	243.5	243.5	243.5
97.5°	179.1	195.2	207.7	216.7	222.0	223.8	225.6	227.4	225.6	225.6	225.6
100°	162.9	179.1	191.6	198.7	205.9	207.7	209.5	211.3	211.3	209.5	209.5
102.5°	148.6	164.7	175.5	184.4	189.8	193.4	195.2	195.2	195.2	195.2	195.2
105°	134.3	150.4	161.1	170.1	175.5	179.1	180.8	182.6	182.6	180.8	180.8
107.5°	121.8	136.1	148.6	155.8	162.9	166.5	168.3	168.3	170.1	168.3	168.3
110°	109.2	125.3	136.1	143.2	150.4	154.0	155.8	157.6	157.6	157.6	157.6



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-98SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	100.3	112.8	123.5	130.7	137.9	141.5	143.2	145.0	146.8	145.0	145.0
115°	89.5	102.1	112.8	120.0	125.3	128.9	132.5	134.3	134.3	136.1	134.3
117.5°	80.6	91.3	102.1	109.2	114.6	120.0	121.8	123.5	125.3	123.5	123.5
120°	71.6	82.4	91.3	98.5	103.9	109.2	111.0	112.8	114.6	112.8	112.8
122.5°	64.5	73.4	82.4	89.5	94.9	98.5	102.1	102.1	103.9	103.9	103.9
125°	57.3	66.2	73.4	80.6	85.9	89.5	91.3	93.1	93.1	94.9	94.9
127.5°	50.1	57.3	66.2	71.6	77.0	80.6	82.4	84.2	84.2	85.9	85.9
130°	43.0	50.1	57.3	62.7	68.0	71.6	73.4	75.2	77.0	77.0	77.0
132.5°	37.6	44.8	50.1	55.5	59.1	62.7	66.2	68.0	68.0	68.0	68.0
135°	30.4	37.6	43.0	48.3	51.9	55.5	57.3	60.9	60.9	60.9	60.9
137.5°	25.1	32.2	37.6	41.2	44.8	48.3	50.1	51.9	53.7	53.7	53.7
140°	19.7	25.1	30.4	35.8	39.4	41.2	44.8	44.8	46.6	46.6	46.6
142.5°	14.3	19.7	23.3	28.6	32.2	35.8	37.6	39.4	39.4	39.4	39.4
145°	10.7	14.3	17.9	21.5	26.9	28.6	30.4	32.2	34.0	34.0	34.0
147.5°	7.2	10.7	12.5	16.1	19.7	23.3	25.1	26.9	28.6	28.6	28.6
150°	5.4	7.2	10.7	12.5	14.3	17.9	21.5	21.5	23.3	23.3	21.5
152.5°	3.6	5.4	7.2	9.0	10.7	12.5	16.1	16.1	17.9	17.9	17.9
155°	3.6	3.6	3.6	5.4	7.2	9.0	10.7	12.5	12.5	12.5	12.5
157.5°	3.6	3.6	3.6	3.6	3.6	5.4	7.2	9.0	9.0	9.0	9.0
160°	3.6	3.6	1.8	1.8	3.6	3.6	3.6	3.6	5.4	5.4	5.4
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-LD5-98SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3255.2	3255.2	3255.2	3255.2	3255.2	3255.2	3255.2	3255.2	3255.2	3255.2	3255.2
2.5°	3251.6	3255.2	3255.2	3251.6	3249.8	3257.0	3248.0	3214.0	3224.7	3228.3	3239.1
5°	3235.5	3239.1	3239.1	3239.1	3235.5	3242.6	3233.7	3199.7	3212.2	3217.6	3224.7
7.5°	3212.2	3214.0	3217.6	3215.8	3212.2	3222.9	3214.0	3180.0	3188.9	3197.9	3206.8
10°	3181.8	3181.8	3183.6	3187.1	3183.6	3192.5	3183.6	3153.1	3162.1	3167.4	3178.2
12.5°	3140.6	3144.2	3146.0	3144.2	3142.4	3149.5	3146.0	3117.3	3120.9	3131.6	3142.4
15°	3085.1	3085.1	3094.0	3090.4	3090.4	3097.6	3101.2	3069.0	3074.3	3090.4	3101.2
17.5°	3017.0	3018.8	3026.0	3029.6	3027.8	3040.3	3042.1	3017.0	3015.2	3034.9	3045.7
20°	2929.3	2932.9	2941.8	2949.0	2949.0	2963.3	2968.7	2952.6	2954.4	2975.9	2979.4
22.5°	2821.9	2821.9	2838.0	2848.7	2857.7	2866.6	2882.7	2868.4	2868.4	2897.1	2913.2
25°	2689.4	2701.9	2707.3	2728.8	2741.3	2766.4	2780.7	2782.5	2784.3	2811.1	2821.9
27.5°	2542.5	2546.1	2562.2	2587.3	2601.6	2624.9	2651.8	2657.1	2666.1	2701.9	2718.0
30°	2376.0	2386.8	2393.9	2429.7	2449.4	2479.9	2513.9	2526.4	2533.6	2581.9	2601.6
32.5°	2205.9	2209.5	2239.9	2259.6	2282.9	2315.2	2354.5	2377.8	2392.1	2442.3	2470.9
35°	2035.8	2043.0	2068.1	2093.1	2116.4	2148.6	2189.8	2222.0	2247.1	2291.9	2329.5
37.5°	1880.1	1898.0	1903.3	1928.4	1946.3	1978.5	2007.2	2053.7	2078.8	2125.4	2173.7
40°	1740.4	1745.8	1749.3	1774.4	1786.9	1817.4	1858.6	1889.0	1923.0	1957.0	2014.3
42.5°	1602.5	1606.1	1611.5	1625.8	1640.1	1661.6	1692.0	1722.5	1758.3	1808.4	1846.0
45°	1475.4	1479.0	1482.6	1491.5	1504.0	1523.7	1543.4	1564.9	1600.7	1643.7	1683.1
47.5°	1357.2	1364.4	1364.4	1366.2	1375.1	1391.2	1405.6	1432.4	1452.1	1475.4	1520.2
50°	1244.4	1249.8	1251.6	1251.6	1257.0	1267.7	1271.3	1289.2	1307.1	1328.6	1360.8
52.5°	1138.8	1138.8	1137.0	1144.1	1144.1	1151.3	1153.1	1163.8	1176.4	1199.7	1214.0
55°	1038.5	1038.5	1043.9	1040.3	1040.3	1043.9	1042.1	1043.9	1054.6	1068.9	1081.5
57.5°	941.8	940.0	945.4	941.8	940.0	943.6	947.2	940.0	941.8	956.1	956.1
60°	845.1	846.9	852.3	848.7	848.7	848.7	845.1	841.5	838.0	846.9	850.5
62.5°	768.1	762.8	768.1	762.8	766.3	764.6	761.0	753.8	755.6	752.0	748.4
65°	687.6	687.6	689.4	684.0	687.6	687.6	682.2	680.4	669.7	666.1	657.1
67.5°	617.7	617.7	619.5	615.9	615.9	617.7	612.4	607.0	596.2	590.9	578.3
70°	556.9	556.9	556.9	555.1	555.1	555.1	551.5	544.3	533.6	524.6	508.5
72.5°	501.3	503.1	501.3	501.3	506.7	501.3	496.0	488.8	479.9	462.0	447.6
75°	456.6	458.4	456.6	456.6	456.6	454.8	453.0	442.3	431.5	417.2	395.7
77.5°	417.2	417.2	419.0	417.2	417.2	415.4	410.0	401.1	388.5	376.0	350.9
80°	379.6	381.4	383.2	385.0	381.4	379.6	374.2	367.1	350.9	336.6	311.6
82.5°	352.7	350.9	352.7	354.5	350.9	349.2	343.8	334.8	322.3	302.6	277.5
85°	325.9	324.1	324.1	325.9	324.1	320.5	315.1	306.2	293.6	274.0	248.9
87.5°	299.0	300.8	302.6	300.8	299.0	295.4	290.1	281.1	266.8	250.7	223.8
90°	279.3	279.3	279.3	279.3	277.5	274.0	268.6	257.8	245.3	225.6	202.3
92.5°	261.4	261.4	261.4	261.4	259.6	254.3	248.9	239.9	225.6	205.9	184.4
95°	243.5	245.3	243.5	243.5	239.9	238.1	229.2	220.2	207.7	188.0	164.7
97.5°	223.8	225.6	223.8	223.8	222.0	218.4	213.1	202.3	189.8	171.9	150.4
100°	209.5	209.5	207.7	207.7	205.9	202.3	195.2	186.2	173.7	155.8	134.3
102.5°	193.4	195.2	193.4	193.4	189.8	186.2	180.8	171.9	159.4	141.5	121.8
105°	180.8	180.8	179.1	179.1	175.5	171.9	166.5	155.8	145.0	128.9	109.2
107.5°	168.3	168.3	166.5	166.5	162.9	159.4	152.2	143.2	132.5	116.4	98.5
110°	155.8	155.8	155.8	154.0	150.4	145.0	139.7	130.7	120.0	105.6	87.7



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-98SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	146.8	145.0	143.2	141.5	137.9	134.3	127.1	118.2	107.4	94.9	78.8
115°	134.3	134.3	132.5	130.7	127.1	121.8	116.4	109.2	98.5	84.2	69.8
117.5°	123.5	123.5	121.8	120.0	116.4	111.0	105.6	98.5	87.7	75.2	62.7
120°	112.8	112.8	111.0	109.2	105.6	100.3	96.7	87.7	78.8	66.2	55.5
122.5°	103.9	102.1	102.1	98.5	96.7	91.3	85.9	78.8	69.8	59.1	48.3
125°	93.1	93.1	91.3	89.5	87.7	82.4	77.0	69.8	60.9	51.9	43.0
127.5°	84.2	84.2	82.4	80.6	78.8	73.4	68.0	62.7	53.7	44.8	35.8
130°	75.2	75.2	73.4	71.6	69.8	64.5	60.9	53.7	46.6	39.4	30.4
132.5°	68.0	68.0	66.2	64.5	60.9	57.3	53.7	46.6	41.2	34.0	26.9
135°	60.9	59.1	59.1	57.3	53.7	50.1	46.6	41.2	34.0	28.6	21.5
137.5°	53.7	51.9	50.1	48.3	46.6	43.0	39.4	35.8	30.4	23.3	17.9
140°	46.6	44.8	44.8	43.0	39.4	37.6	34.0	28.6	25.1	19.7	14.3
142.5°	39.4	39.4	37.6	35.8	34.0	32.2	28.6	25.1	19.7	16.1	10.7
145°	34.0	32.2	32.2	30.4	28.6	25.1	23.3	19.7	16.1	12.5	9.0
147.5°	26.9	26.9	26.9	25.1	23.3	21.5	19.7	16.1	12.5	9.0	5.4
150°	21.5	21.5	21.5	19.7	17.9	16.1	14.3	12.5	9.0	5.4	3.6
152.5°	17.9	17.9	16.1	16.1	14.3	12.5	10.7	9.0	5.4	3.6	3.6
155°	12.5	12.5	12.5	10.7	10.7	9.0	7.2	5.4	3.6	3.6	3.6
157.5°	9.0	9.0	9.0	7.2	7.2	5.4	5.4	3.6	3.6	3.6	3.6
160°	5.4	5.4	5.4	5.4	3.6	3.6	3.6	3.6	3.6	3.6	3.6
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-LD5-98SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3255.2	3255.2	3255.2	3255.2	3255.2	3255.2	3255.2
2.5°	3233.7	3231.9	3246.2	3246.2	3230.1	3255.2	3282.0
5°	3222.9	3221.2	3235.5	3235.5	3221.2	3246.2	3274.9
7.5°	3201.5	3203.3	3217.6	3221.2	3203.3	3226.5	3257.0
10°	3178.2	3176.4	3192.5	3196.1	3181.8	3203.3	3231.9
12.5°	3140.6	3140.6	3156.7	3162.1	3147.7	3172.8	3199.7
15°	3101.2	3101.2	3111.9	3120.9	3108.4	3131.6	3158.5
17.5°	3051.1	3049.3	3060.0	3070.8	3058.2	3083.3	3111.9
20°	2986.6	2986.6	2999.1	3011.7	3002.7	3026.0	3058.2
22.5°	2918.6	2911.4	2932.9	2941.8	2936.5	2959.7	2992.0
25°	2832.6	2830.8	2852.3	2864.8	2857.7	2882.7	2911.4
27.5°	2739.5	2737.7	2759.2	2775.3	2771.7	2795.0	2827.2
30°	2626.7	2635.7	2655.4	2682.2	2673.3	2698.3	2732.3
32.5°	2508.5	2517.5	2540.8	2569.4	2571.2	2590.9	2624.9
35°	2367.1	2390.4	2406.5	2444.1	2451.2	2470.9	2506.7
37.5°	2218.5	2245.3	2279.3	2308.0	2322.3	2338.4	2379.6
40°	2051.9	2091.3	2128.9	2163.0	2180.9	2197.0	2236.4
42.5°	1901.5	1932.0	1967.8	2001.8	2034.0	2048.4	2089.5
45°	1731.4	1767.3	1799.5	1840.7	1872.9	1889.0	1930.2
47.5°	1564.9	1600.7	1643.7	1672.4	1706.4	1722.5	1761.9
50°	1405.6	1437.8	1473.6	1507.6	1536.3	1550.6	1584.6
52.5°	1248.0	1282.0	1316.0	1337.5	1368.0	1378.7	1407.4
55°	1108.3	1131.6	1162.1	1174.6	1205.0	1212.2	1231.9
57.5°	974.0	990.2	1000.9	1022.4	1043.9	1060.0	1083.3
60°	852.3	859.5	866.6	879.1	897.1	902.4	911.4
62.5°	743.1	741.3	755.6	759.2	761.0	778.9	769.9
65°	646.4	648.2	635.6	630.3	637.4	642.8	639.2
67.5°	565.8	555.1	544.3	531.8	521.0	526.4	521.0
70°	487.0	478.1	460.2	442.3	435.1	424.4	419.0
72.5°	424.4	402.9	385.0	361.7	349.2	336.6	327.7
75°	376.0	345.6	320.5	295.4	277.5	259.6	256.0
77.5°	325.9	297.2	268.6	241.7	214.9	195.2	188.0
80°	286.5	259.6	225.6	193.4	164.7	139.7	130.7
82.5°	250.7	222.0	188.0	154.0	121.8	94.9	84.2
85°	220.2	189.8	155.8	121.8	89.5	60.9	46.6
87.5°	197.0	162.9	128.9	96.7	62.7	34.0	17.9
90°	175.5	143.2	111.0	77.0	44.8	17.9	0.0
92.5°	155.8	125.3	93.1	62.7	34.0	10.7	1.8
95°	137.9	111.0	78.8	50.1	25.1	7.2	1.8
97.5°	123.5	96.7	68.0	41.2	19.7	5.4	1.8
100°	111.0	84.2	59.1	34.0	16.1	3.6	1.8
102.5°	98.5	75.2	50.1	28.6	12.5	1.8	1.8
105°	87.7	66.2	43.0	25.1	10.7	1.8	1.8
107.5°	78.8	59.1	37.6	21.5	7.2	1.8	1.8
110°	69.8	50.1	32.2	17.9	5.4	1.8	1.8



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-98SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	62.7	44.8	28.6	14.3	3.6	1.8	1.8
115°	55.5	39.4	25.1	12.5	3.6	1.8	1.8
117.5°	48.3	34.0	21.5	9.0	1.8	1.8	1.8
120°	43.0	30.4	17.9	7.2	1.8	1.8	1.8
122.5°	37.6	25.1	14.3	5.4	1.8	1.8	1.8
125°	32.2	21.5	12.5	3.6	1.8	1.8	1.8
127.5°	26.9	17.9	9.0	3.6	1.8	1.8	1.8
130°	23.3	14.3	7.2	1.8	1.8	1.8	1.8
132.5°	19.7	10.7	5.4	1.8	1.8	1.8	1.8
135°	16.1	9.0	3.6	1.8	1.8	1.8	1.8
137.5°	12.5	7.2	3.6	1.8	1.8	1.8	1.8
140°	9.0	5.4	1.8	1.8	1.8	1.8	1.8
142.5°	7.2	3.6	1.8	1.8	1.8	1.8	1.8
145°	5.4	3.6	1.8	1.8	1.8	1.8	1.8
147.5°	3.6	3.6	3.6	3.6	1.8	1.8	1.8
150°	3.6	3.6	1.8	1.8	3.6	1.8	1.8
152.5°	3.6	1.8	1.8	1.8	3.6	1.8	1.8
155°	3.6	3.6	3.6	3.6	3.6	3.6	1.8
157.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6
160°	3.6	3.6	3.6	3.6	3.6	3.6	3.6
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)