

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-LD5-90SL-LC-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33518)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNLED-LD5-90SL-LC-UNV-L930-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
CLEAR LENSED
Light Source: -
Ballast/Driver: -

Summary

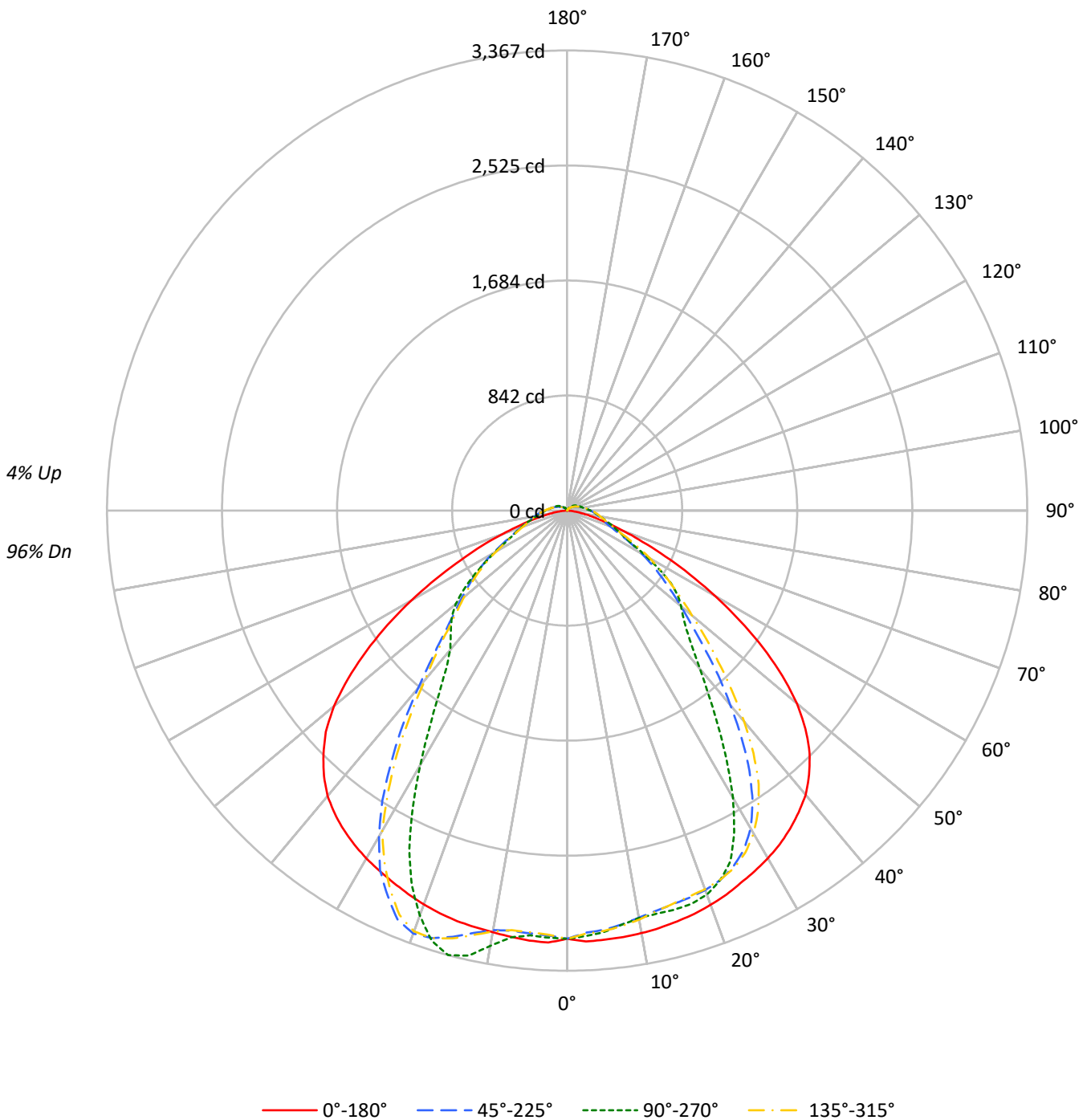
Lumens per Lamp: N/A
Luminaire Lumens: 7468.0 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12657	12657	12657	12657
5°	12767	12156	12793	12251
10°	12844	11650	12817	12441
15°	12962	11494	12955	12798
20°	13124	11312	13110	11924
25°	13306	10731	13299	10369
30°	13579	9301	13587	8240
35°	13871	7521	13911	6364
40°	14136	6056	14195	5335
45°	14120	5129	14193	4995
50°	13550	4723	13740	4617
55°	12064	4245	12365	3859
60°	9829	3249	10350	2979
65°	7350	2485	7919	2357
70°	5041	2145	5682	2051
75°	3341	1936	3890	1830
80°	2214	1805	2595	1661
85°	1208	1801	1593	1645



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.6	4.0
10°-20°	885.4	11.9
20°-30°	1346.0	18.0
30°-40°	1443.9	19.3
40°-50°	1253.2	16.8
50°-60°	928.7	12.4
60°-70°	532.1	7.1
70°-80°	294.7	3.9
80°-90°	179.4	2.4
90°-100°	116.7	1.6
100°-110°	78.1	1.0
110°-120°	52.8	0.7
120°-130°	32.4	0.4
130°-140°	17.0	0.2
140°-150°	7.8	0.1
150°-160°	2.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2528.9	33.9
0°-40°	3972.8	53.2
0°-60°	6154.7	82.4
0°-90°	7160.9	95.9
90°-120°	247.6	3.3
90°-150°	304.8	4.1
90°-180°	307.0	4.1
0°-180°	7468.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3133	3133	3133	3133	3133	
5°	3152	3095	3158	3120	3152	300
15°	3112	3024	3110	3367	3112	880
25°	3006	2828	3005	2733	3006	1390
35°	2843	1926	2851	1629	2843	1780
45°	2510	1235	2523	1202	2510	1921
55°	1751	926	1794	841	1751	1553
65°	794	469	856	445	794	801
75°	226	298	264	282	226	259
85°	31	206	40	188	31	40
90°	0	172	3	159	0	1
95°	2	141	0	134	2	1
105°	2	105	2	100	2	2
115°	2	86	2	78	2	2
125°	2	65	2	53	2	1
135°	2	40	2	34	2	1
145°	2	24	3	19	2	1
155°	3	11	3	10	3	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3132.6	3132.6	3132.6	3132.6	3132.6	3132.6	3132.6	3132.6	3132.6	3132.6	3132.6
2.5°	3155.3	3147.2	3144.0	3137.5	3142.3	3161.8	3148.8	3127.8	3129.4	3092.2	3111.6
5°	3152.1	3142.3	3137.5	3131.0	3134.3	3152.1	3139.1	3118.1	3116.5	3079.2	3097.0
7.5°	3147.2	3137.5	3129.4	3124.5	3126.2	3140.7	3124.5	3100.3	3095.4	3055.0	3071.1
10°	3139.1	3132.6	3121.3	3113.2	3111.6	3127.8	3101.9	3077.6	3066.3	3024.2	3040.4
12.5°	3127.8	3118.1	3106.7	3092.2	3090.6	3100.3	3079.2	3045.3	3033.9	3000.0	3017.8
15°	3111.6	3100.3	3087.3	3071.1	3063.1	3069.5	3043.6	3012.9	3011.3	2982.2	3006.4
17.5°	3093.8	3077.6	3063.1	3040.4	3029.1	3033.9	3012.9	2985.4	2988.6	2970.8	2998.3
20°	3069.5	3051.7	3029.1	3006.4	2990.2	2998.3	2983.8	2962.7	2967.6	2954.6	2978.9
22.5°	3042.0	3017.8	2990.2	2964.4	2951.4	2962.7	2951.4	2933.6	2935.2	2927.1	2941.7
25°	3006.4	2978.9	2946.6	2914.2	2907.7	2915.8	2909.3	2894.8	2888.3	2875.4	2881.8
27.5°	2974.1	2943.3	2902.9	2868.9	2857.6	2873.7	2859.2	2834.9	2817.1	2799.3	2786.4
30°	2936.8	2899.6	2854.3	2815.5	2805.8	2812.3	2791.2	2754.0	2707.1	2684.4	2648.8
32.5°	2896.4	2847.9	2791.2	2747.5	2741.1	2736.2	2697.4	2644.0	2571.2	2525.9	2470.8
35°	2843.0	2789.6	2721.6	2668.2	2658.5	2631.0	2567.9	2496.7	2402.9	2325.2	2231.4
37.5°	2783.1	2720.0	2648.8	2577.6	2550.1	2495.1	2406.1	2331.7	2189.3	2095.4	1982.2
40°	2715.2	2639.1	2551.7	2466.0	2420.7	2331.7	2229.7	2119.7	1982.2	1856.0	1760.5
42.5°	2621.3	2540.4	2436.9	2341.4	2263.7	2145.6	2025.9	1870.5	1744.3	1637.5	1540.4
45°	2509.7	2412.6	2292.8	2178.0	2079.3	1938.5	1797.7	1642.4	1537.2	1412.6	1346.3
47.5°	2365.7	2260.5	2132.7	2004.8	1875.4	1720.0	1572.8	1423.9	1318.7	1229.8	1181.2
50°	2195.8	2098.7	1957.9	1805.8	1663.4	1501.6	1354.3	1242.7	1140.8	1085.7	1048.5
52.5°	1985.4	1894.8	1750.8	1585.7	1448.2	1289.6	1155.3	1064.7	991.9	951.4	938.5
55°	1750.8	1671.5	1529.1	1375.4	1234.6	1089.0	987.0	907.8	860.8	836.6	838.2
57.5°	1500.0	1438.5	1304.2	1166.6	1034.0	923.9	831.7	768.6	733.0	731.4	736.2
60°	1249.2	1203.9	1087.4	969.2	852.7	763.7	695.8	652.1	629.4	631.1	629.4
62.5°	1009.7	967.6	883.5	786.4	694.2	634.3	572.8	555.0	535.6	534.0	534.0
65°	794.5	762.1	694.2	624.6	555.0	516.2	485.4	464.4	449.8	446.6	448.2
67.5°	597.1	584.1	537.2	490.3	446.6	422.3	396.4	391.6	380.3	380.3	383.5
70°	445.0	435.3	409.4	381.9	364.1	347.9	334.9	334.9	333.3	331.7	339.8
72.5°	322.0	323.6	315.5	294.5	292.9	289.6	286.4	291.3	292.9	297.7	307.4
75°	226.5	231.4	231.4	228.2	234.6	242.7	247.6	255.7	265.4	271.8	283.2
77.5°	160.2	160.2	168.3	178.0	190.9	205.5	218.4	229.8	242.7	250.8	260.5
80°	103.6	108.4	121.4	139.2	157.0	176.4	194.2	208.7	221.7	234.6	241.1
82.5°	61.5	69.6	85.8	108.4	131.1	155.3	173.1	190.9	205.5	218.4	223.3
85°	30.7	42.1	61.5	85.8	110.0	135.9	158.6	174.8	190.9	202.3	208.7
87.5°	9.7	22.7	43.7	66.3	92.2	118.1	142.4	160.2	174.8	184.5	190.9
90°	0.0	11.3	30.7	55.0	79.3	105.2	127.8	147.2	161.8	169.9	174.8
92.5°	0.0	6.5	24.3	45.3	68.0	93.8	116.5	134.3	147.2	155.3	158.6
95°	1.6	4.9	17.8	37.2	59.9	84.1	105.2	121.4	134.3	142.4	144.0
97.5°	1.6	3.2	14.6	30.7	51.8	74.4	95.5	111.6	121.4	129.4	131.1
100°	1.6	3.2	11.3	27.5	45.3	66.3	85.8	100.3	111.6	118.1	119.7
102.5°	1.6	1.6	9.7	22.7	40.5	58.3	76.1	90.6	100.3	106.8	110.0
105°	1.6	1.6	8.1	19.4	35.6	51.8	68.0	82.5	90.6	97.1	100.3
107.5°	1.6	1.6	6.5	16.2	30.7	45.3	61.5	72.8	82.5	89.0	92.2
110°	1.6	1.6	4.9	14.6	25.9	40.5	53.4	64.7	74.4	80.9	84.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.6	1.6	4.9	12.9	22.7	35.6	46.9	58.3	66.3	72.8	77.7
115°	1.6	1.6	4.9	11.3	21.0	30.7	42.1	51.8	59.9	66.3	71.2
117.5°	1.6	1.6	4.9	9.7	17.8	27.5	37.2	46.9	53.4	59.9	64.7
120°	1.6	1.6	3.2	8.1	16.2	24.3	32.4	40.5	48.5	55.0	59.9
122.5°	1.6	1.6	3.2	8.1	12.9	21.0	29.1	35.6	43.7	48.5	53.4
125°	1.6	1.6	3.2	6.5	11.3	19.4	25.9	32.4	37.2	43.7	48.5
127.5°	1.6	1.6	3.2	6.5	9.7	16.2	22.7	29.1	34.0	38.8	42.1
130°	1.6	1.6	3.2	4.9	8.1	12.9	19.4	24.3	30.7	34.0	37.2
132.5°	1.6	1.6	1.6	4.9	6.5	9.7	14.6	21.0	25.9	30.7	32.4
135°	1.6	1.6	1.6	3.2	6.5	8.1	11.3	16.2	21.0	25.9	29.1
137.5°	1.6	1.6	1.6	3.2	4.9	8.1	9.7	12.9	17.8	21.0	25.9
140°	1.6	1.6	1.6	3.2	4.9	6.5	8.1	11.3	14.6	17.8	21.0
142.5°	1.6	1.6	1.6	3.2	3.2	4.9	6.5	9.7	11.3	14.6	17.8
145°	1.6	1.6	1.6	3.2	3.2	4.9	6.5	8.1	9.7	11.3	14.6
147.5°	1.6	1.6	1.6	3.2	3.2	3.2	4.9	6.5	8.1	9.7	11.3
150°	3.2	3.2	3.2	3.2	3.2	3.2	4.9	4.9	6.5	8.1	9.7
152.5°	3.2	3.2	3.2	3.2	3.2	3.2	4.9	4.9	4.9	6.5	8.1
155°	3.2	3.2	3.2	3.2	3.2	3.2	4.9	4.9	4.9	6.5	6.5
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3132.6	3132.6	3132.6	3132.6	3132.6	3132.6	3132.6	3132.6	3132.6	3132.6	3132.6
2.5°	3105.1	3108.4	3127.8	3126.2	3122.9	3119.7	3119.7	3116.5	3119.7	3127.8	3124.5
5°	3088.9	3093.8	3108.4	3106.7	3103.5	3101.9	3100.3	3095.4	3098.7	3110.0	3106.7
7.5°	3059.8	3064.7	3077.6	3071.1	3066.3	3069.5	3061.4	3056.6	3063.1	3074.4	3072.8
10°	3029.1	3032.3	3048.5	3045.3	3037.2	3038.8	3030.7	3027.5	3035.6	3042.0	3043.6
12.5°	3008.0	3019.4	3033.9	3032.3	3030.7	3032.3	3024.2	3021.0	3025.8	3032.3	3030.7
15°	3003.2	3017.8	3033.9	3033.9	3035.6	3037.2	3029.1	3024.2	3029.1	3033.9	3032.3
17.5°	2998.3	3016.1	3030.7	3029.1	3030.7	3033.9	3021.0	3017.8	3024.2	3030.7	3027.5
20°	2982.2	2998.3	3008.0	3004.8	3004.8	3006.4	2990.2	2990.2	3000.0	3004.8	3006.4
22.5°	2936.8	2956.3	2956.3	2948.2	2948.2	2941.7	2936.8	2927.1	2938.5	2946.6	2953.0
25°	2868.9	2877.0	2867.3	2849.5	2839.8	2831.7	2809.0	2828.4	2828.4	2852.7	2860.8
27.5°	2773.4	2755.6	2728.1	2690.9	2682.8	2656.9	2642.4	2647.2	2655.3	2689.3	2715.2
30°	2616.5	2563.1	2516.1	2500.0	2464.4	2438.5	2412.6	2425.5	2440.1	2459.5	2512.9
32.5°	2409.3	2357.6	2281.5	2254.0	2216.8	2184.4	2153.7	2173.1	2199.0	2211.9	2270.2
35°	2171.5	2110.0	2040.4	1993.5	1954.7	1936.9	1898.0	1925.5	1953.0	1962.8	2012.9
37.5°	1919.1	1856.0	1794.5	1754.0	1716.8	1705.5	1679.6	1699.0	1720.0	1734.6	1776.7
40°	1679.6	1621.3	1574.4	1546.9	1521.0	1511.3	1501.6	1509.7	1525.9	1537.2	1569.6
42.5°	1474.1	1427.2	1394.8	1378.6	1360.8	1347.9	1349.5	1352.7	1360.8	1385.1	1399.7
45°	1294.5	1267.0	1245.9	1242.7	1231.4	1229.8	1228.1	1234.6	1239.5	1254.0	1265.4
47.5°	1150.5	1139.1	1134.3	1140.8	1145.6	1139.1	1142.4	1150.5	1160.2	1160.2	1158.6
50°	1037.2	1040.4	1046.9	1061.5	1071.2	1074.4	1077.7	1087.4	1089.0	1092.2	1087.4
52.5°	945.0	948.2	966.0	988.7	1000.0	1004.8	1011.3	1021.0	1021.0	1024.3	1017.8
55°	851.1	856.0	873.8	896.4	906.1	912.6	919.1	925.6	930.4	936.9	932.0
57.5°	747.6	762.1	773.5	779.9	786.4	791.2	796.1	797.7	807.4	809.0	817.1
60°	637.5	640.8	652.1	650.5	645.6	658.6	652.1	663.4	674.7	689.3	690.9
62.5°	532.4	534.0	542.1	538.8	545.3	543.7	548.5	548.5	556.6	563.1	571.2
65°	449.8	451.4	457.9	457.9	456.3	461.2	466.0	469.2	469.2	474.1	480.6
67.5°	388.3	393.2	399.7	402.9	406.1	406.1	411.0	412.6	415.9	417.5	420.7
70°	346.3	352.7	359.2	362.5	364.1	367.3	368.9	368.9	372.2	373.8	377.0
72.5°	315.5	322.0	326.9	326.9	330.1	331.7	331.7	333.3	334.9	338.2	341.4
75°	289.6	294.5	297.7	296.1	296.1	296.1	297.7	297.7	301.0	304.2	307.4
77.5°	265.4	270.2	270.2	267.0	267.0	267.0	267.0	268.6	270.2	273.5	276.7
80°	247.6	247.6	246.0	246.0	242.7	241.1	241.1	242.7	242.7	246.0	250.8
82.5°	228.2	228.2	226.5	224.9	223.3	221.7	221.7	223.3	224.9	226.5	229.8
85°	210.4	210.4	207.1	207.1	205.5	205.5	205.5	205.5	207.1	208.7	212.0
87.5°	192.6	190.9	189.3	187.7	187.7	187.7	187.7	187.7	189.3	192.6	194.2
90°	174.8	173.1	171.5	171.5	169.9	169.9	171.5	171.5	173.1	174.8	176.4
92.5°	158.6	157.0	155.3	155.3	153.7	153.7	155.3	153.7	157.0	157.0	158.6
95°	144.0	142.4	140.8	140.8	140.8	140.8	140.8	140.8	142.4	142.4	144.0
97.5°	131.1	129.4	127.8	127.8	129.4	127.8	129.4	129.4	129.4	131.1	132.7
100°	119.7	118.1	118.1	119.7	118.1	118.1	119.7	119.7	119.7	119.7	121.4
102.5°	110.0	110.0	110.0	110.0	110.0	110.0	111.6	111.6	111.6	111.6	113.3
105°	100.3	101.9	101.9	101.9	103.6	103.6	103.6	105.2	105.2	105.2	105.2
107.5°	93.8	95.5	95.5	97.1	97.1	98.7	98.7	98.7	98.7	100.3	100.3
110°	87.4	89.0	90.6	92.2	92.2	93.8	93.8	93.8	93.8	93.8	93.8



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-90SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	80.9	82.5	84.1	87.4	89.0	89.0	89.0	89.0	90.6	90.6	89.0
115°	74.4	77.7	79.3	82.5	84.1	84.1	85.8	85.8	85.8	85.8	84.1
117.5°	68.0	72.8	74.4	77.7	79.3	79.3	80.9	80.9	80.9	80.9	79.3
120°	63.1	66.3	69.6	71.2	72.8	74.4	74.4	76.1	76.1	76.1	74.4
122.5°	58.3	61.5	64.7	66.3	68.0	69.6	69.6	69.6	69.6	69.6	69.6
125°	51.8	55.0	58.3	59.9	61.5	63.1	63.1	64.7	64.7	64.7	63.1
127.5°	46.9	50.2	51.8	55.0	56.6	56.6	58.3	58.3	58.3	58.3	56.6
130°	40.5	43.7	46.9	48.5	50.2	50.2	51.8	51.8	51.8	51.8	51.8
132.5°	35.6	38.8	40.5	43.7	43.7	45.3	45.3	46.9	46.9	46.9	45.3
135°	32.4	34.0	35.6	38.8	38.8	40.5	40.5	40.5	40.5	40.5	40.5
137.5°	29.1	30.7	32.4	34.0	34.0	35.6	35.6	35.6	35.6	37.2	35.6
140°	24.3	27.5	29.1	29.1	30.7	30.7	30.7	32.4	32.4	32.4	30.7
142.5°	21.0	22.7	24.3	25.9	27.5	27.5	27.5	27.5	29.1	27.5	27.5
145°	16.2	19.4	21.0	22.7	24.3	24.3	24.3	24.3	24.3	24.3	24.3
147.5°	12.9	14.6	17.8	19.4	19.4	21.0	21.0	21.0	21.0	21.0	21.0
150°	11.3	11.3	14.6	16.2	17.8	17.8	17.8	17.8	17.8	17.8	17.8
152.5°	8.1	9.7	11.3	12.9	14.6	14.6	14.6	14.6	14.6	14.6	14.6
155°	8.1	8.1	9.7	9.7	11.3	11.3	11.3	11.3	12.9	11.3	11.3
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-90SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3132.6	3132.6	3132.6	3132.6	3132.6	3132.6	3132.6	3132.6	3132.6	3132.6	3132.6
2.5°	3119.7	3118.1	3124.5	3118.1	3085.7	3098.7	3093.8	3111.6	3113.2	3118.1	3134.3
5°	3103.5	3103.5	3111.6	3105.1	3074.4	3087.3	3085.7	3103.5	3106.7	3110.0	3127.8
7.5°	3071.1	3072.8	3084.1	3079.2	3046.9	3066.3	3064.7	3085.7	3092.2	3098.7	3114.8
10°	3040.4	3038.8	3051.7	3046.9	3016.1	3038.8	3037.2	3058.2	3067.9	3079.2	3098.7
12.5°	3024.2	3019.4	3024.2	3019.4	2985.4	3003.2	3004.8	3029.1	3040.4	3055.0	3077.6
15°	3024.2	3016.1	3016.1	3006.4	2967.6	2978.9	2980.5	2996.7	3011.3	3025.8	3053.3
17.5°	3021.0	3012.9	3011.3	3003.2	2961.1	2961.1	2959.5	2970.8	2978.9	2993.5	3022.6
20°	3003.2	3000.0	2998.3	2993.5	2954.6	2948.2	2944.9	2944.9	2949.8	2954.6	2983.8
22.5°	2956.3	2959.5	2962.7	2966.0	2935.2	2923.9	2925.5	2922.3	2917.4	2917.4	2941.7
25°	2868.9	2885.1	2898.0	2912.6	2894.8	2886.7	2896.4	2891.5	2883.4	2877.0	2898.0
27.5°	2729.7	2763.7	2791.2	2826.8	2828.4	2822.0	2847.9	2844.6	2843.0	2833.3	2849.5
30°	2537.2	2590.6	2627.8	2679.6	2723.3	2729.7	2773.4	2779.9	2786.4	2781.5	2797.7
32.5°	2304.2	2377.0	2440.1	2521.0	2563.1	2600.3	2661.8	2687.7	2713.5	2721.6	2739.4
35°	2050.1	2132.7	2207.1	2296.1	2362.4	2443.3	2517.8	2556.6	2614.8	2637.5	2663.4
37.5°	1809.0	1886.7	1959.5	2048.5	2155.3	2239.4	2331.7	2419.1	2498.3	2530.7	2569.5
40°	1595.4	1658.5	1728.1	1805.8	1902.9	2012.9	2113.2	2234.6	2328.4	2393.2	2449.8
42.5°	1433.6	1464.4	1524.2	1593.8	1671.5	1783.1	1885.1	2021.0	2134.3	2226.5	2320.4
45°	1289.6	1304.2	1347.9	1385.1	1464.4	1563.1	1671.5	1804.2	1922.3	2040.4	2153.7
47.5°	1166.6	1184.4	1205.5	1228.1	1284.8	1367.3	1461.1	1580.9	1699.0	1836.5	1966.0
50°	1084.1	1089.0	1092.2	1101.9	1135.9	1192.5	1268.6	1370.5	1483.8	1631.0	1768.6
52.5°	1011.3	1011.3	1001.6	996.7	1009.7	1045.3	1089.0	1161.8	1278.3	1414.2	1559.8
55°	933.6	919.1	915.8	899.7	902.9	919.1	940.1	996.7	1092.2	1208.7	1349.5
57.5°	825.2	818.8	818.8	812.3	799.3	807.4	812.3	852.7	920.7	1021.0	1144.0
60°	700.6	697.4	705.5	707.1	695.8	700.6	699.0	723.3	771.8	852.7	954.7
62.5°	576.0	590.6	592.2	598.7	592.2	590.6	598.7	619.7	644.0	705.5	784.8
65°	483.8	491.9	493.5	501.6	498.4	498.4	504.8	521.0	535.6	577.7	639.1
67.5°	423.9	420.7	422.3	427.2	422.3	420.7	425.6	435.3	446.6	472.5	516.2
70°	377.0	373.8	373.8	373.8	367.3	362.5	364.1	367.3	372.2	386.7	414.2
72.5°	341.4	341.4	336.6	331.7	326.9	323.6	320.4	317.1	315.5	320.4	334.9
75°	309.1	310.7	309.1	304.2	297.7	291.3	284.8	278.3	270.2	267.0	268.6
77.5°	279.9	281.5	283.2	281.5	275.1	267.0	257.3	247.6	236.2	224.9	218.4
80°	254.0	257.3	258.9	257.3	252.4	246.0	234.6	223.3	207.1	192.6	176.4
82.5°	231.4	236.2	237.9	237.9	234.6	228.2	215.2	202.3	184.5	165.0	144.0
85°	213.6	216.8	220.1	220.1	218.4	212.0	199.0	184.5	166.7	144.0	121.4
87.5°	195.8	197.4	200.6	203.9	200.6	194.2	182.8	166.7	148.9	126.2	100.3
90°	178.0	179.6	182.8	186.1	184.5	178.0	168.3	153.7	134.3	110.0	84.1
92.5°	160.2	163.4	165.0	166.7	168.3	163.4	155.3	140.8	121.4	97.1	72.8
95°	147.2	147.2	150.5	152.1	153.7	148.9	142.4	127.8	110.0	87.4	63.1
97.5°	134.3	134.3	137.5	137.5	139.2	135.9	129.4	116.5	98.7	77.7	53.4
100°	121.4	123.0	124.6	126.2	126.2	124.6	118.1	105.2	89.0	69.6	46.9
102.5°	113.3	113.3	114.9	114.9	116.5	113.3	106.8	95.5	79.3	61.5	40.5
105°	105.2	105.2	106.8	106.8	105.2	101.9	95.5	85.8	71.2	53.4	35.6
107.5°	98.7	98.7	98.7	98.7	97.1	93.8	87.4	76.1	63.1	48.5	32.4
110°	93.8	92.2	92.2	90.6	89.0	84.1	77.7	68.0	56.6	42.1	27.5



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-90SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	89.0	87.4	85.8	84.1	80.9	76.1	69.6	61.5	50.2	37.2	24.3
115°	84.1	82.5	80.9	77.7	74.4	69.6	63.1	55.0	43.7	32.4	21.0
117.5°	79.3	77.7	74.4	71.2	68.0	63.1	56.6	48.5	38.8	29.1	19.4
120°	72.8	71.2	69.6	66.3	63.1	56.6	50.2	43.7	34.0	25.9	16.2
122.5°	68.0	66.3	63.1	61.5	56.6	51.8	45.3	38.8	30.7	22.7	14.6
125°	61.5	59.9	58.3	55.0	51.8	45.3	40.5	34.0	27.5	19.4	11.3
127.5°	56.6	55.0	51.8	48.5	45.3	40.5	35.6	30.7	24.3	16.2	11.3
130°	50.2	48.5	46.9	43.7	40.5	35.6	32.4	25.9	21.0	14.6	9.7
132.5°	43.7	43.7	42.1	38.8	35.6	32.4	27.5	22.7	17.8	12.9	8.1
135°	40.5	38.8	37.2	34.0	32.4	27.5	24.3	19.4	14.6	11.3	6.5
137.5°	35.6	34.0	32.4	30.7	27.5	24.3	21.0	16.2	12.9	9.7	6.5
140°	30.7	29.1	29.1	25.9	24.3	21.0	17.8	14.6	11.3	8.1	4.9
142.5°	27.5	25.9	24.3	22.7	21.0	17.8	14.6	11.3	9.7	6.5	4.9
145°	24.3	22.7	21.0	19.4	17.8	14.6	12.9	9.7	8.1	6.5	4.9
147.5°	19.4	19.4	17.8	16.2	14.6	12.9	11.3	9.7	6.5	4.9	3.2
150°	16.2	16.2	14.6	12.9	12.9	11.3	9.7	8.1	6.5	4.9	3.2
152.5°	14.6	12.9	12.9	11.3	11.3	9.7	8.1	6.5	4.9	4.9	3.2
155°	11.3	11.3	11.3	9.7	9.7	8.1	6.5	6.5	4.9	3.2	3.2
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-90SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3132.6	3132.6	3132.6	3132.6	3132.6	3132.6	3132.6	3132.6	3132.6	3132.6	3132.6
2.5°	3137.5	3118.1	3134.3	3163.4	3160.1	3156.9	3153.7	3160.1	3181.2	3169.9	3152.1
5°	3132.6	3113.2	3131.0	3158.5	3156.9	3152.1	3148.8	3155.3	3176.3	3165.0	3145.6
7.5°	3122.9	3105.1	3118.1	3145.6	3145.6	3142.3	3139.1	3145.6	3165.0	3155.3	3135.9
10°	3106.7	3093.8	3106.7	3132.6	3134.3	3127.8	3124.5	3132.6	3152.1	3147.2	3131.0
12.5°	3093.8	3080.9	3095.4	3121.3	3122.9	3116.5	3111.6	3121.3	3147.2	3150.4	3145.6
15°	3076.0	3064.7	3082.5	3110.0	3110.0	3105.1	3105.1	3118.1	3153.7	3168.2	3176.3
17.5°	3050.1	3042.0	3063.1	3090.6	3092.2	3088.9	3090.6	3116.5	3163.4	3199.0	3221.6
20°	3017.8	3014.5	3037.2	3066.3	3071.1	3072.8	3080.9	3119.7	3184.4	3233.0	3255.6
22.5°	2978.9	2980.5	3006.4	3037.2	3043.6	3048.5	3064.7	3119.7	3200.6	3252.4	3262.1
25°	2935.2	2940.1	2967.6	3004.8	3012.9	3022.6	3050.1	3121.3	3205.5	3239.4	3223.3
27.5°	2888.3	2898.0	2933.6	2972.4	2982.2	2998.3	3033.9	3111.6	3182.8	3184.4	3124.5
30°	2839.8	2851.1	2893.2	2938.5	2954.6	2970.8	3014.5	3088.9	3127.8	3076.0	2970.8
32.5°	2784.7	2800.9	2843.0	2898.0	2917.4	2938.5	2982.2	3045.3	3030.7	2919.0	2768.6
35°	2715.2	2737.8	2786.4	2851.1	2868.9	2896.4	2927.1	2941.7	2877.0	2718.4	2548.5
37.5°	2629.4	2663.4	2720.0	2794.5	2813.9	2831.7	2839.8	2799.3	2669.9	2498.3	2322.0
40°	2530.7	2582.5	2644.0	2726.5	2745.9	2745.9	2716.8	2631.0	2467.6	2242.7	2046.9
42.5°	2411.0	2474.1	2551.7	2634.3	2653.7	2631.0	2561.4	2411.0	2224.9	1974.1	1767.0
45°	2265.3	2349.5	2436.9	2522.6	2532.3	2482.2	2357.6	2166.6	1936.9	1703.9	1506.4
47.5°	2092.2	2202.2	2297.7	2394.8	2381.8	2297.7	2131.0	1914.2	1671.5	1451.4	1292.9
50°	1898.0	2027.5	2134.3	2226.5	2199.0	2082.5	1886.7	1660.2	1419.1	1231.4	1100.3
52.5°	1690.9	1839.8	1946.6	2021.0	1983.8	1844.6	1629.4	1412.6	1215.2	1043.7	956.3
55°	1475.7	1626.2	1736.2	1794.5	1745.9	1595.4	1383.5	1186.1	1000.0	888.3	836.6
57.5°	1267.0	1407.7	1511.3	1558.2	1496.7	1346.3	1150.5	983.8	849.5	755.7	729.8
60°	1066.3	1181.2	1279.9	1315.5	1249.2	1110.0	941.7	809.0	710.3	645.6	632.7
62.5°	880.2	974.1	1051.8	1079.3	1014.5	906.1	760.5	661.8	592.2	559.9	543.7
65°	726.5	781.5	860.8	856.0	817.1	716.8	610.0	540.4	495.1	474.1	464.4
67.5°	571.2	621.3	671.5	678.0	629.4	559.9	490.3	440.1	415.9	404.5	399.7
70°	441.7	479.0	509.7	501.6	475.7	432.0	388.3	360.8	351.1	346.3	346.3
72.5°	343.0	362.5	377.0	367.3	351.1	328.5	307.4	296.1	297.7	301.0	304.2
75°	265.4	270.2	273.5	263.7	260.5	246.0	244.3	246.0	255.7	265.4	270.2
77.5°	203.9	197.4	192.6	182.8	184.5	182.8	190.9	203.9	218.4	233.0	246.0
80°	157.0	142.4	131.1	121.4	126.2	134.3	150.5	169.9	189.3	205.5	221.7
82.5°	121.4	100.3	84.1	74.4	84.1	97.1	118.1	142.4	165.0	182.8	200.6
85°	93.8	69.6	50.2	40.5	50.2	69.6	92.2	119.7	144.0	163.4	181.2
87.5°	72.8	50.2	27.5	16.2	27.5	48.5	74.4	100.3	124.6	147.2	165.0
90°	58.3	34.0	12.9	3.2	14.6	34.0	58.3	84.1	108.4	132.7	150.5
92.5°	46.9	24.3	6.5	0.0	8.1	25.9	48.5	72.8	97.1	119.7	137.5
95°	38.8	19.4	4.9	0.0	6.5	19.4	38.8	63.1	85.8	108.4	123.0
97.5°	32.4	14.6	3.2	0.0	3.2	16.2	32.4	53.4	76.1	97.1	111.6
100°	27.5	12.9	3.2	0.0	3.2	12.9	27.5	46.9	66.3	85.8	100.3
102.5°	22.7	9.7	1.6	1.6	1.6	9.7	24.3	40.5	58.3	76.1	90.6
105°	21.0	8.1	1.6	1.6	1.6	8.1	21.0	35.6	51.8	68.0	80.9
107.5°	17.8	6.5	1.6	1.6	1.6	6.5	17.8	30.7	46.9	61.5	72.8
110°	14.6	6.5	1.6	1.6	1.6	6.5	14.6	27.5	40.5	53.4	64.7



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-90SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	12.9	4.9	1.6	1.6	1.6	4.9	12.9	24.3	35.6	48.5	58.3
115°	11.3	4.9	1.6	1.6	1.6	4.9	11.3	21.0	30.7	42.1	51.8
117.5°	9.7	4.9	1.6	1.6	1.6	3.2	9.7	17.8	27.5	37.2	46.9
120°	8.1	3.2	1.6	1.6	1.6	3.2	8.1	16.2	24.3	32.4	40.5
122.5°	8.1	3.2	1.6	1.6	1.6	3.2	6.5	12.9	21.0	27.5	35.6
125°	6.5	3.2	1.6	1.6	1.6	1.6	6.5	11.3	17.8	24.3	30.7
127.5°	6.5	3.2	1.6	1.6	1.6	1.6	4.9	9.7	14.6	21.0	27.5
130°	4.9	3.2	1.6	1.6	1.6	1.6	3.2	8.1	12.9	17.8	22.7
132.5°	4.9	3.2	1.6	1.6	1.6	1.6	3.2	6.5	9.7	14.6	19.4
135°	4.9	1.6	1.6	1.6	1.6	1.6	1.6	4.9	8.1	11.3	14.6
137.5°	3.2	1.6	1.6	1.6	1.6	1.6	1.6	3.2	6.5	8.1	12.9
140°	3.2	1.6	1.6	1.6	1.6	1.6	1.6	3.2	4.9	6.5	9.7
142.5°	3.2	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2	4.9	8.1
145°	3.2	1.6	1.6	3.2	3.2	1.6	1.6	3.2	3.2	4.9	6.5
147.5°	3.2	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2	3.2	4.9
150°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.9
152.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
155°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-90SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3132.6	3132.6	3132.6	3132.6	3132.6	3132.6	3132.6	3132.6	3132.6	3132.6	3132.6
2.5°	3148.8	3111.6	3131.0	3124.5	3131.0	3147.2	3145.6	3140.7	3144.0	3135.9	3127.8
5°	3142.3	3105.1	3124.5	3116.5	3124.5	3140.7	3137.5	3132.6	3137.5	3127.8	3119.7
7.5°	3134.3	3100.3	3122.9	3121.3	3135.9	3156.9	3158.5	3158.5	3169.9	3155.3	3148.8
10°	3134.3	3116.5	3147.2	3158.5	3195.7	3223.3	3226.5	3233.0	3252.4	3249.1	3233.0
12.5°	3168.2	3165.0	3210.3	3237.8	3271.8	3310.6	3331.7	3338.1	3351.1	3341.4	3334.9
15°	3211.9	3228.1	3278.3	3309.0	3346.2	3375.4	3380.2	3383.4	3393.2	3378.6	3367.3
17.5°	3270.2	3279.9	3320.3	3333.3	3357.6	3362.4	3355.9	3339.8	3339.8	3307.4	3297.7
20°	3297.7	3292.8	3309.0	3288.0	3278.3	3249.1	3221.6	3190.9	3189.3	3155.3	3152.1
22.5°	3273.4	3241.0	3207.1	3155.3	3132.6	3090.6	3053.3	3035.6	3024.2	2980.5	2969.2
25°	3187.7	3108.4	3058.2	2996.7	2941.7	2893.2	2857.6	2820.3	2784.7	2749.1	2733.0
27.5°	3038.8	2964.4	2883.4	2797.7	2721.6	2647.2	2587.3	2550.1	2516.1	2469.2	2444.9
30°	2855.9	2752.4	2663.4	2580.9	2456.3	2365.7	2315.5	2241.1	2215.2	2194.1	2148.8
32.5°	2640.7	2516.1	2394.8	2283.1	2155.3	2071.2	2004.8	1949.8	1933.6	1878.6	1865.7
35°	2402.9	2239.4	2101.9	1991.9	1899.6	1797.7	1742.7	1705.5	1673.1	1635.9	1629.4
37.5°	2122.9	1975.7	1820.4	1723.3	1650.5	1563.1	1521.0	1495.1	1480.6	1453.1	1448.2
40°	1841.4	1694.1	1587.4	1490.3	1445.0	1398.0	1367.3	1356.0	1349.5	1339.8	1330.1
42.5°	1585.7	1456.3	1380.2	1315.5	1296.1	1273.4	1265.4	1271.8	1265.4	1262.1	1260.5
45°	1368.9	1270.2	1216.8	1197.4	1192.5	1186.1	1192.5	1203.9	1205.5	1202.2	1202.2
47.5°	1171.5	1124.6	1101.9	1105.2	1113.3	1118.1	1129.4	1144.0	1147.2	1139.1	1142.4
50°	1042.1	1014.5	1009.7	1022.6	1040.4	1046.9	1059.9	1071.2	1069.6	1066.3	1063.1
52.5°	920.7	912.6	925.6	938.5	957.9	961.1	966.0	970.9	969.2	962.8	959.5
55°	818.8	825.2	836.6	841.4	856.0	854.4	856.0	856.0	849.5	846.3	841.4
57.5°	726.5	728.1	734.6	736.2	744.3	741.1	739.5	736.2	726.5	724.9	720.1
60°	632.7	629.4	644.0	632.7	639.1	632.7	631.1	623.0	613.3	611.6	608.4
62.5°	543.7	537.2	546.9	542.1	545.3	538.8	535.6	525.9	517.8	516.2	514.6
65°	464.4	461.2	470.9	469.2	472.5	464.4	461.2	454.7	448.2	446.6	445.0
67.5°	398.1	406.1	411.0	411.0	414.2	412.6	404.5	402.9	401.3	394.8	394.8
70°	349.5	354.4	364.1	365.7	364.1	367.3	360.8	359.2	357.6	354.4	352.7
72.5°	310.7	317.1	326.9	328.5	326.9	326.9	323.6	322.0	322.0	317.1	317.1
75°	279.9	288.0	296.1	296.1	296.1	292.9	289.6	289.6	286.4	284.8	281.5
77.5°	254.0	263.7	270.2	268.6	267.0	263.7	263.7	258.9	254.0	254.0	250.8
80°	234.6	241.1	246.0	244.3	242.7	237.9	236.2	231.4	228.2	223.3	223.3
82.5°	213.6	221.7	224.9	223.3	220.1	215.2	213.6	210.4	207.1	205.5	202.3
85°	195.8	203.9	205.5	202.3	199.0	195.8	194.2	192.6	190.9	187.7	187.7
87.5°	178.0	186.1	186.1	184.5	181.2	179.6	178.0	176.4	174.8	173.1	171.5
90°	163.4	169.9	169.9	168.3	166.7	165.0	163.4	161.8	160.2	158.6	158.6
92.5°	148.9	155.3	155.3	153.7	152.1	150.5	150.5	148.9	147.2	145.6	144.0
95°	135.9	142.4	142.4	142.4	140.8	139.2	139.2	137.5	135.9	135.9	134.3
97.5°	123.0	129.4	129.4	129.4	127.8	126.2	126.2	124.6	124.6	124.6	123.0
100°	111.6	116.5	118.1	118.1	116.5	116.5	116.5	114.9	114.9	114.9	113.3
102.5°	100.3	105.2	108.4	108.4	108.4	106.8	106.8	106.8	106.8	106.8	105.2
105°	90.6	95.5	98.7	100.3	100.3	100.3	100.3	100.3	100.3	100.3	100.3
107.5°	82.5	87.4	90.6	92.2	93.8	93.8	95.5	95.5	95.5	95.5	95.5
110°	74.4	79.3	84.1	85.8	87.4	89.0	89.0	90.6	89.0	89.0	89.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-90SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	66.3	72.8	76.1	79.3	80.9	82.5	84.1	84.1	84.1	84.1	84.1
115°	59.9	66.3	69.6	72.8	76.1	77.7	77.7	79.3	79.3	79.3	77.7
117.5°	53.4	59.9	63.1	66.3	68.0	71.2	72.8	72.8	72.8	72.8	71.2
120°	48.5	53.4	56.6	59.9	63.1	64.7	66.3	66.3	66.3	66.3	66.3
122.5°	42.1	46.9	51.8	55.0	56.6	58.3	59.9	59.9	59.9	59.9	59.9
125°	37.2	42.1	45.3	48.5	50.2	53.4	53.4	53.4	53.4	53.4	53.4
127.5°	32.4	37.2	40.5	43.7	45.3	46.9	48.5	48.5	48.5	48.5	48.5
130°	27.5	32.4	35.6	38.8	40.5	42.1	42.1	43.7	43.7	43.7	43.7
132.5°	24.3	27.5	30.7	34.0	35.6	37.2	37.2	38.8	38.8	38.8	38.8
135°	19.4	24.3	25.9	29.1	30.7	32.4	32.4	34.0	34.0	34.0	34.0
137.5°	16.2	19.4	22.7	25.9	27.5	27.5	29.1	29.1	30.7	30.7	30.7
140°	12.9	14.6	19.4	21.0	22.7	24.3	25.9	25.9	25.9	25.9	25.9
142.5°	9.7	12.9	14.6	17.8	19.4	21.0	22.7	22.7	22.7	22.7	22.7
145°	8.1	9.7	11.3	14.6	16.2	17.8	19.4	19.4	19.4	19.4	19.4
147.5°	6.5	8.1	9.7	11.3	12.9	14.6	16.2	16.2	16.2	16.2	16.2
150°	4.9	6.5	8.1	8.1	9.7	11.3	12.9	14.6	14.6	14.6	14.6
152.5°	4.9	4.9	6.5	6.5	8.1	9.7	11.3	11.3	11.3	11.3	11.3
155°	3.2	4.9	4.9	4.9	6.5	6.5	8.1	9.7	9.7	9.7	9.7
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-90SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3132.6	3132.6	3132.6	3132.6	3132.6	3132.6	3132.6	3132.6	3132.6	3132.6	3132.6
2.5°	3132.6	3139.1	3135.9	3131.0	3129.4	3137.5	3129.4	3092.2	3106.7	3108.4	3119.7
5°	3127.8	3132.6	3129.4	3126.2	3121.3	3131.0	3121.3	3082.5	3097.0	3098.7	3110.0
7.5°	3160.1	3161.8	3161.8	3153.7	3140.7	3145.6	3132.6	3088.9	3097.0	3097.0	3105.1
10°	3241.0	3244.3	3249.1	3228.1	3211.9	3199.0	3181.2	3127.8	3126.2	3113.2	3113.2
12.5°	3346.2	3338.1	3330.0	3320.3	3307.4	3291.2	3265.3	3202.2	3181.2	3160.1	3139.1
15°	3377.0	3373.7	3372.1	3367.3	3359.2	3354.3	3334.9	3271.8	3241.0	3215.2	3177.9
17.5°	3296.1	3302.5	3323.6	3325.2	3334.9	3354.3	3351.1	3307.4	3279.9	3268.6	3223.3
20°	3150.4	3152.1	3177.9	3189.3	3231.3	3263.7	3288.0	3283.1	3276.6	3289.6	3255.6
22.5°	2975.7	2987.0	3014.5	3032.3	3072.8	3110.0	3148.8	3169.9	3203.8	3257.2	3250.8
25°	2737.8	2752.4	2791.2	2820.3	2877.0	2933.6	2985.4	3022.6	3063.1	3165.0	3199.0
27.5°	2453.0	2475.7	2525.9	2555.0	2634.3	2692.5	2766.9	2839.8	2896.4	3012.9	3082.5
30°	2153.7	2173.1	2226.5	2267.0	2334.9	2414.2	2508.1	2611.6	2705.5	2823.6	2911.0
32.5°	1873.8	1894.8	1938.5	1974.1	2050.1	2116.5	2220.0	2347.9	2435.2	2598.7	2715.2
35°	1629.4	1648.8	1679.6	1710.3	1773.4	1841.4	1930.4	2055.0	2166.6	2336.5	2483.8
37.5°	1457.9	1461.1	1478.9	1496.7	1543.7	1595.4	1665.0	1775.1	1878.6	2061.5	2223.3
40°	1334.9	1334.9	1344.6	1349.5	1370.5	1401.3	1445.0	1530.7	1616.5	1755.6	1953.0
42.5°	1258.9	1255.6	1255.6	1257.3	1255.6	1270.2	1296.1	1336.5	1412.6	1527.5	1681.2
45°	1202.2	1195.8	1190.9	1179.6	1173.1	1173.1	1174.7	1189.3	1233.0	1307.4	1432.0
47.5°	1139.1	1137.5	1129.4	1116.5	1105.2	1097.1	1084.1	1079.3	1092.2	1134.3	1218.4
50°	1066.3	1058.2	1050.1	1040.4	1027.5	1019.4	995.1	996.7	985.4	1004.8	1048.5
52.5°	959.5	953.1	949.8	941.7	936.9	933.6	914.2	894.8	890.0	893.2	909.4
55°	841.4	844.6	831.7	838.2	836.6	822.0	813.9	799.3	794.5	792.9	801.0
57.5°	718.4	721.7	713.6	720.1	720.1	712.0	707.1	707.1	695.8	686.1	697.4
60°	606.8	600.3	605.2	613.3	613.3	608.4	605.2	605.2	597.1	593.8	601.9
62.5°	516.2	509.7	514.6	522.6	524.3	521.0	517.8	517.8	508.1	508.1	514.6
65°	446.6	448.2	446.6	453.1	453.1	454.7	451.4	448.2	436.9	441.7	440.1
67.5°	396.4	394.8	394.8	401.3	399.7	402.9	399.7	394.8	386.7	380.3	378.6
70°	354.4	352.7	352.7	356.0	357.6	357.6	356.0	352.7	341.4	334.9	330.1
72.5°	317.1	315.5	317.1	318.8	320.4	322.0	320.4	317.1	307.4	299.3	291.3
75°	283.2	281.5	286.4	286.4	288.0	288.0	289.6	288.0	279.9	270.2	260.5
77.5°	249.2	250.8	255.7	257.3	260.5	262.1	263.7	263.7	255.7	247.6	234.6
80°	221.7	224.9	228.2	229.8	233.0	237.9	239.5	241.1	234.6	226.5	212.0
82.5°	202.3	203.9	207.1	208.7	213.6	215.2	216.8	220.1	216.8	208.7	192.6
85°	186.1	187.7	190.9	190.9	194.2	197.4	199.0	200.6	199.0	190.9	174.8
87.5°	171.5	173.1	174.8	176.4	178.0	179.6	181.2	182.8	181.2	173.1	158.6
90°	158.6	158.6	160.2	160.2	161.8	163.4	166.7	166.7	165.0	158.6	144.0
92.5°	144.0	145.6	145.6	147.2	148.9	150.5	152.1	152.1	150.5	144.0	131.1
95°	134.3	134.3	135.9	135.9	137.5	137.5	139.2	139.2	137.5	131.1	118.1
97.5°	123.0	123.0	123.0	123.0	124.6	124.6	126.2	126.2	124.6	118.1	106.8
100°	113.3	113.3	113.3	113.3	113.3	114.9	114.9	114.9	113.3	106.8	95.5
102.5°	105.2	105.2	105.2	105.2	105.2	105.2	105.2	105.2	101.9	97.1	85.8
105°	100.3	100.3	100.3	98.7	98.7	98.7	97.1	97.1	92.2	87.4	77.7
107.5°	93.8	93.8	93.8	92.2	92.2	90.6	89.0	89.0	84.1	79.3	69.6
110°	89.0	89.0	89.0	87.4	85.8	84.1	82.5	80.9	76.1	69.6	61.5



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-90SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	84.1	84.1	82.5	82.5	80.9	79.3	76.1	74.4	69.6	63.1	55.0
115°	77.7	77.7	77.7	76.1	74.4	72.8	71.2	68.0	63.1	56.6	48.5
117.5°	71.2	71.2	71.2	69.6	68.0	66.3	64.7	61.5	56.6	50.2	43.7
120°	64.7	64.7	64.7	63.1	61.5	59.9	58.3	55.0	50.2	45.3	37.2
122.5°	59.9	59.9	58.3	56.6	55.0	53.4	51.8	48.5	45.3	38.8	32.4
125°	53.4	53.4	51.8	51.8	50.2	48.5	46.9	43.7	38.8	34.0	29.1
127.5°	48.5	46.9	46.9	46.9	45.3	43.7	40.5	38.8	34.0	29.1	24.3
130°	42.1	42.1	42.1	40.5	40.5	38.8	35.6	32.4	29.1	25.9	21.0
132.5°	37.2	37.2	37.2	37.2	35.6	34.0	30.7	29.1	25.9	21.0	17.8
135°	34.0	34.0	32.4	32.4	30.7	29.1	27.5	24.3	21.0	17.8	14.6
137.5°	29.1	29.1	29.1	27.5	27.5	25.9	22.7	21.0	19.4	16.2	12.9
140°	25.9	25.9	24.3	24.3	22.7	22.7	21.0	17.8	16.2	12.9	11.3
142.5°	22.7	22.7	21.0	21.0	19.4	19.4	17.8	16.2	12.9	11.3	8.1
145°	19.4	19.4	17.8	17.8	17.8	16.2	14.6	12.9	11.3	9.7	8.1
147.5°	16.2	16.2	16.2	14.6	14.6	12.9	12.9	11.3	9.7	8.1	6.5
150°	14.6	14.6	12.9	12.9	12.9	11.3	9.7	9.7	8.1	6.5	4.9
152.5°	11.3	11.3	11.3	11.3	9.7	9.7	8.1	8.1	6.5	4.9	4.9
155°	9.7	9.7	9.7	8.1	8.1	8.1	6.5	6.5	4.9	4.9	3.2
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-90SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3132.6	3132.6	3132.6	3132.6	3132.6	3132.6	3132.6
2.5°	3114.8	3113.2	3127.8	3126.2	3106.7	3135.9	3155.3
5°	3106.7	3105.1	3118.1	3121.3	3100.3	3131.0	3152.1
7.5°	3100.3	3098.7	3113.2	3118.1	3097.0	3124.5	3147.2
10°	3101.9	3093.8	3106.7	3110.0	3090.6	3119.7	3139.1
12.5°	3113.2	3093.8	3098.7	3098.7	3080.9	3106.7	3127.8
15°	3140.7	3100.3	3093.8	3088.9	3066.3	3090.6	3111.6
17.5°	3171.5	3116.5	3093.8	3077.6	3050.1	3071.1	3093.8
20°	3202.2	3134.3	3097.0	3071.1	3033.9	3053.3	3069.5
22.5°	3216.8	3150.4	3100.3	3061.4	3014.5	3024.2	3042.0
25°	3197.4	3144.0	3093.8	3046.9	2990.2	2991.9	3006.4
27.5°	3126.2	3111.6	3079.2	3032.3	2970.8	2962.7	2974.1
30°	3004.8	3045.3	3046.9	3012.9	2948.2	2932.0	2936.8
32.5°	2834.9	2925.5	2978.9	2972.4	2915.8	2893.2	2896.4
35°	2639.1	2752.4	2868.9	2907.7	2867.3	2849.5	2843.0
37.5°	2404.5	2556.6	2711.9	2807.4	2800.9	2789.6	2783.1
40°	2145.6	2328.4	2512.9	2665.0	2711.9	2711.9	2715.2
42.5°	1868.9	2082.5	2284.8	2477.3	2587.3	2611.6	2621.3
45°	1601.9	1817.1	2037.2	2258.9	2406.1	2482.2	2509.7
47.5°	1359.2	1576.0	1784.8	2027.5	2223.3	2322.0	2365.7
50°	1152.1	1313.9	1534.0	1775.1	1988.6	2110.0	2195.8
52.5°	980.6	1106.8	1299.3	1524.2	1739.5	1906.1	1985.4
55°	836.6	922.3	1085.7	1279.9	1485.4	1658.5	1750.8
57.5°	715.2	783.2	894.8	1056.6	1229.8	1401.3	1500.0
60°	608.4	655.3	731.4	859.2	1006.5	1153.7	1249.2
62.5°	516.2	546.9	597.1	690.9	805.8	920.7	1009.7
65°	445.0	457.9	485.4	543.7	631.1	718.4	794.5
67.5°	375.4	383.5	404.5	440.1	483.8	546.9	597.1
70°	323.6	323.6	325.2	346.3	368.9	409.4	445.0
72.5°	281.5	276.7	267.0	271.8	276.7	299.3	322.0
75°	247.6	236.2	220.1	213.6	210.4	213.6	226.5
77.5°	218.4	202.3	182.8	166.7	153.7	148.9	160.2
80°	194.2	174.8	152.1	131.1	110.0	98.7	103.6
82.5°	174.8	150.5	126.2	101.9	77.7	61.5	61.5
85°	153.7	131.1	105.2	79.3	55.0	34.0	30.7
87.5°	139.2	114.9	87.4	63.1	38.8	17.8	9.7
90°	124.6	100.3	74.4	50.2	27.5	8.1	0.0
92.5°	111.6	89.0	64.7	40.5	19.4	4.9	0.0
95°	100.3	79.3	55.0	34.0	16.2	3.2	1.6
97.5°	89.0	69.6	48.5	27.5	11.3	3.2	1.6
100°	80.9	61.5	42.1	22.7	9.7	1.6	1.6
102.5°	71.2	55.0	35.6	19.4	8.1	1.6	1.6
105°	63.1	48.5	30.7	16.2	6.5	1.6	1.6
107.5°	56.6	42.1	27.5	14.6	6.5	1.6	1.6
110°	50.2	37.2	24.3	12.9	4.9	1.6	1.6



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-90SL-LC-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	45.3	32.4	21.0	11.3	3.2	1.6	1.6
115°	38.8	29.1	17.8	9.7	3.2	1.6	1.6
117.5°	34.0	24.3	16.2	8.1	3.2	1.6	1.6
120°	29.1	21.0	12.9	6.5	1.6	1.6	1.6
122.5°	25.9	17.8	11.3	6.5	1.6	1.6	1.6
125°	22.7	16.2	9.7	4.9	1.6	1.6	1.6
127.5°	19.4	12.9	8.1	3.2	1.6	1.6	1.6
130°	16.2	11.3	6.5	3.2	1.6	1.6	1.6
132.5°	12.9	9.7	6.5	3.2	1.6	1.6	1.6
135°	11.3	8.1	4.9	3.2	1.6	1.6	1.6
137.5°	9.7	6.5	3.2	3.2	3.2	1.6	1.6
140°	8.1	4.9	3.2	3.2	3.2	3.2	1.6
142.5°	6.5	4.9	3.2	3.2	3.2	3.2	1.6
145°	4.9	3.2	3.2	3.2	3.2	3.2	1.6
147.5°	4.9	3.2	3.2	3.2	3.2	3.2	1.6
150°	3.2	3.2	3.2	3.2	3.2	3.2	3.2
152.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2
155°	3.2	3.2	3.2	3.2	3.2	3.2	3.2
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)