

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-LD5-106SL-LN-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 (P33519)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNLED-LD5-106SL-LN-UNV-L930-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

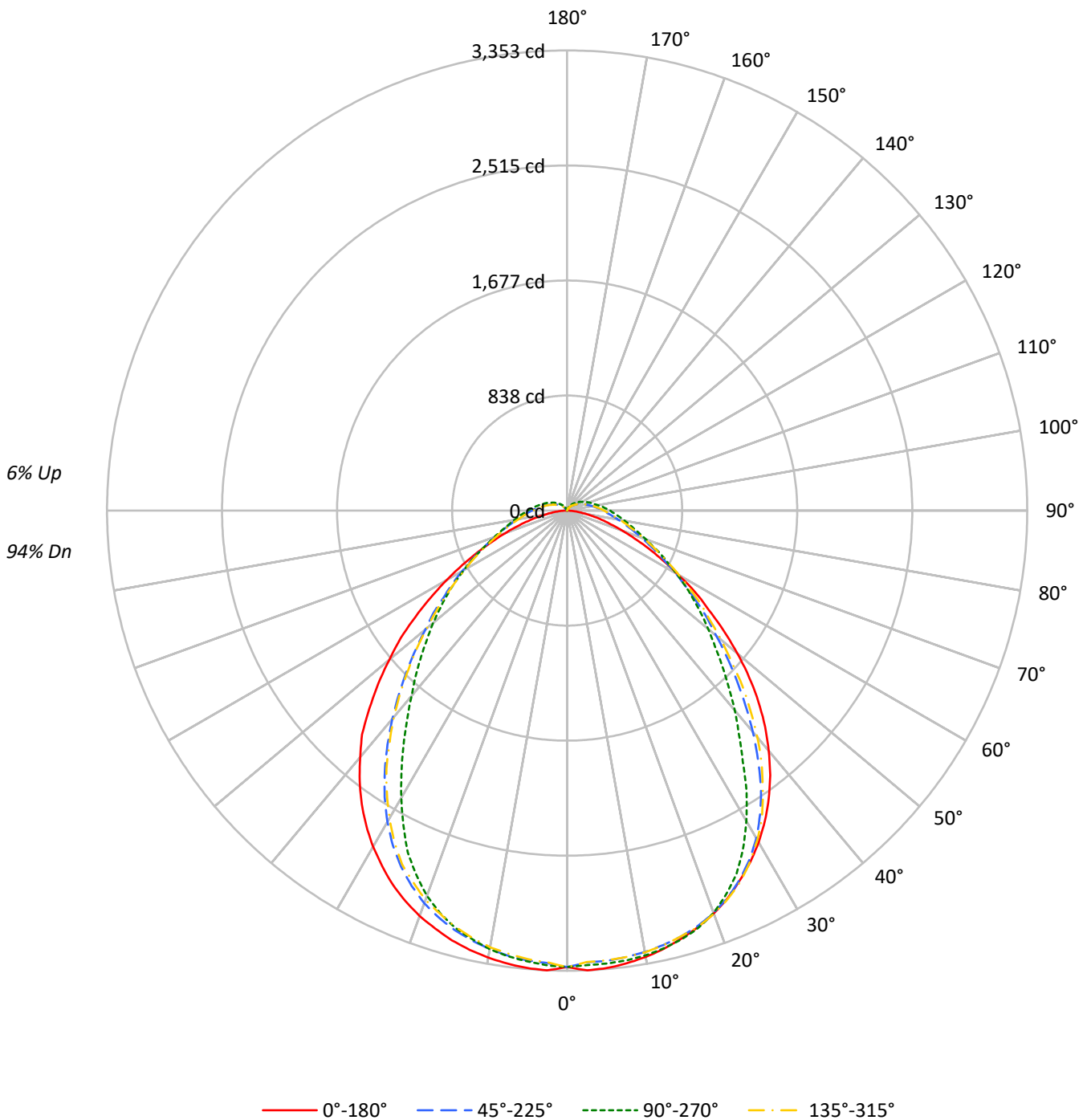
Lumens per Lamp: N/A  
Luminaire Lumens: 8417.0 lumens  
Efficiency: N/A  
Efficacy: 102.6 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 82  
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°	13438	13438	13438	13438
5°	13553	13010	13553	12953
10°	13511	12665	13533	12489
15°	13443	12286	13504	11967
20°	13360	11800	13438	11302
25°	13166	11078	13312	10425
30°	12908	10017	13078	9274
35°	12497	8718	12738	8117
40°	11896	7624	12210	7074
45°	11095	6628	11456	6248
50°	9991	5824	10431	5530
55°	8673	5143	9303	4883
60°	7327	4515	7988	4256
65°	6042	3992	6651	3701
70°	4849	3543	5429	3277
75°	3859	3271	4344	3009
80°	2853	3156	3362	2884
85°	1872	3174	2517	2918



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	315.3	3.7
10°-20°	904.1	10.7
20°-30°	1340.0	15.9
30°-40°	1488.7	17.7
40°-50°	1349.5	16.0
50°-60°	1045.7	12.4
60°-70°	710.1	8.4
70°-80°	451.8	5.4
80°-90°	288.8	3.4
90°-100°	194.7	2.3
100°-110°	133.4	1.6
110°-120°	89.0	1.1
120°-130°	55.3	0.7
130°-140°	30.6	0.4
140°-150°	14.4	0.2
150°-160°	5.3	0.1
160°-170°	0.3	0.0
170°-180°	0.0	0.0
0°-30°	2559.4	30.4
0°-40°	4048.1	48.1
0°-60°	6443.3	76.6
0°-90°	7894.0	93.8
90°-120°	417.1	5.0
90°-150°	517.4	6.1
90°-180°	523.0	6.2
0°-180°	8417.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	3326	3326	3326	3326	3326	
5°	3346	3313	3346	3298	3346	318
15°	3227	3233	3242	3148	3227	911
25°	2975	2920	3008	2748	2975	1370
35°	2561	2232	2611	2078	2561	1598
45°	1972	1595	2036	1504	1972	1515
55°	1259	1121	1350	1065	1259	1133
65°	653	754	719	699	653	655
75°	262	503	294	463	262	282
85°	48	362	64	333	48	57
90°	0	313	4	285	0	3
95°	2	267	0	249	2	1
105°	2	196	0	185	2	2
115°	2	148	0	137	2	2
125°	2	110	2	97	2	2
135°	2	77	2	62	2	1
145°	2	49	2	35	2	1
155°	2	27	2	13	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°	3325.9	3325.9	3325.9	3325.9	3325.9	3325.9	3325.9	3325.9	3325.9	3325.9	3325.9
2.5°	3353.4	3349.7	3346.0	3340.5	3346.0	3360.7	3351.5	3331.4	3327.7	3294.8	3309.4
5°	3346.0	3340.5	3336.9	3331.4	3338.7	3357.0	3347.9	3329.6	3324.1	3293.0	3309.4
7.5°	3327.7	3324.1	3318.6	3318.6	3325.9	3344.2	3336.9	3316.8	3313.1	3282.0	3300.3
10°	3302.1	3300.3	3296.6	3296.6	3304.0	3325.9	3316.8	3298.5	3294.8	3265.5	3285.7
12.5°	3269.2	3271.0	3265.5	3265.5	3276.5	3298.5	3291.1	3271.0	3267.4	3241.8	3261.9
15°	3227.1	3228.9	3225.3	3227.1	3238.1	3263.7	3254.6	3236.3	3232.6	3212.5	3228.9
17.5°	3179.6	3181.4	3181.4	3179.6	3192.4	3218.0	3210.7	3194.2	3188.7	3172.2	3192.4
20°	3124.7	3124.7	3124.7	3124.7	3139.3	3164.9	3155.8	3143.0	3132.0	3119.2	3135.6
22.5°	3057.0	3055.2	3057.0	3062.5	3077.1	3097.2	3091.7	3077.1	3060.6	3053.3	3066.1
25°	2974.7	2980.1	2982.0	2987.5	3005.8	3022.2	3016.7	3002.1	2976.5	2971.0	2974.7
27.5°	2888.7	2892.3	2897.8	2896.0	2921.6	2938.1	2927.1	2914.3	2877.7	2872.2	2868.6
30°	2791.7	2797.2	2800.9	2799.0	2819.2	2837.5	2826.5	2810.0	2760.6	2757.0	2727.7
32.5°	2681.9	2687.4	2691.1	2691.1	2720.4	2727.7	2707.6	2683.8	2630.7	2617.9	2592.3
35°	2561.2	2566.7	2568.5	2568.5	2597.8	2596.0	2570.4	2537.4	2478.9	2462.4	2418.5
37.5°	2431.3	2435.0	2436.8	2447.8	2460.6	2449.6	2416.7	2374.6	2330.7	2285.0	2237.4
40°	2285.0	2290.4	2294.1	2301.4	2314.2	2301.4	2253.9	2202.6	2155.1	2103.8	2056.3
42.5°	2134.9	2151.4	2147.8	2145.9	2153.2	2118.5	2081.9	2023.4	1975.8	1922.7	1875.2
45°	1972.1	1970.3	1979.4	1983.1	1981.3	1952.0	1900.8	1847.7	1800.2	1745.3	1705.0
47.5°	1800.2	1798.3	1805.7	1809.3	1798.3	1767.2	1727.0	1666.6	1626.4	1578.8	1547.7
50°	1619.0	1619.0	1630.0	1619.0	1613.6	1582.5	1549.5	1489.2	1458.1	1416.0	1397.7
52.5°	1437.9	1454.4	1443.4	1439.8	1434.3	1403.2	1377.6	1328.2	1302.6	1284.3	1262.3
55°	1258.6	1276.9	1269.6	1264.1	1262.3	1236.7	1212.9	1176.3	1159.9	1147.1	1134.2
57.5°	1106.8	1105.0	1101.3	1095.8	1097.7	1077.5	1053.8	1033.6	1026.3	1020.8	1024.5
60°	931.2	945.8	940.3	942.2	944.0	940.3	920.2	907.4	909.2	911.1	916.5
62.5°	786.7	799.5	808.6	801.3	805.0	810.4	799.5	795.8	803.1	810.4	817.8
65°	653.1	665.9	675.1	673.2	684.2	695.2	693.4	697.0	713.5	722.6	731.8
67.5°	532.4	545.2	558.0	559.8	576.3	592.7	600.1	612.9	631.2	644.0	654.9
70°	428.1	439.1	453.7	462.8	484.8	506.8	519.6	545.2	556.1	574.4	581.8
72.5°	334.8	343.9	364.1	386.0	404.3	431.7	457.4	479.3	495.8	515.9	525.0
75°	261.6	265.3	287.2	312.8	338.4	369.5	397.0	420.8	442.7	462.8	477.5
77.5°	192.1	197.6	217.7	252.5	281.7	314.7	345.8	371.4	395.2	415.3	435.4
80°	133.5	144.5	166.5	201.2	234.2	270.8	300.0	329.3	354.9	375.0	395.2
82.5°	86.0	95.1	126.2	161.0	195.7	232.3	263.4	292.7	320.2	342.1	360.4
85°	47.6	60.4	91.5	128.1	162.8	199.4	232.3	261.6	289.1	309.2	327.5
87.5°	18.3	36.6	65.9	100.6	135.4	170.1	204.9	232.3	259.8	281.7	298.2
90°	0.0	22.0	49.4	84.2	118.9	153.7	186.6	215.9	241.5	261.6	279.9
92.5°	1.8	14.6	38.4	67.7	100.6	133.5	164.6	193.9	219.5	239.7	256.1
95°	1.8	11.0	31.1	58.5	87.8	118.9	148.2	175.6	199.4	219.5	236.0
97.5°	1.8	7.3	25.6	51.2	76.8	107.9	135.4	161.0	182.9	203.1	215.9
100°	1.8	7.3	22.0	43.9	69.5	97.0	122.6	148.2	168.3	184.8	199.4
102.5°	1.8	5.5	18.3	38.4	62.2	86.0	111.6	135.4	153.7	170.1	184.8
105°	1.8	5.5	16.5	32.9	54.9	78.7	100.6	122.6	142.7	157.3	170.1
107.5°	1.8	3.7	14.6	27.4	47.6	71.3	93.3	111.6	129.9	144.5	157.3
110°	1.8	3.7	12.8	25.6	42.1	64.0	84.2	102.4	118.9	133.5	144.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.8	3.7	11.0	23.8	38.4	56.7	76.8	93.3	109.8	122.6	133.5
115°	1.8	3.7	11.0	22.0	34.8	49.4	67.7	86.0	98.8	113.4	122.6
117.5°	1.8	3.7	9.1	18.3	32.9	45.7	62.2	76.8	91.5	104.3	113.4
120°	1.8	3.7	9.1	16.5	29.3	42.1	54.9	69.5	84.2	93.3	102.4
122.5°	1.8	3.7	7.3	16.5	25.6	38.4	49.4	62.2	75.0	86.0	95.1
125°	1.8	3.7	7.3	14.6	23.8	34.8	45.7	54.9	67.7	76.8	86.0
127.5°	1.8	3.7	7.3	12.8	22.0	31.1	42.1	51.2	60.4	69.5	76.8
130°	1.8	3.7	5.5	11.0	20.1	27.4	36.6	47.6	54.9	62.2	69.5
132.5°	1.8	3.7	5.5	11.0	16.5	23.8	32.9	42.1	49.4	56.7	62.2
135°	1.8	3.7	5.5	9.1	14.6	22.0	27.4	36.6	43.9	51.2	56.7
137.5°	1.8	3.7	5.5	9.1	12.8	18.3	23.8	31.1	38.4	43.9	51.2
140°	1.8	3.7	5.5	7.3	11.0	16.5	22.0	25.6	32.9	38.4	43.9
142.5°	1.8	3.7	5.5	7.3	11.0	14.6	18.3	22.0	27.4	32.9	38.4
145°	1.8	3.7	5.5	7.3	9.1	12.8	16.5	20.1	22.0	27.4	31.1
147.5°	1.8	3.7	5.5	7.3	7.3	11.0	14.6	16.5	20.1	22.0	25.6
150°	1.8	3.7	5.5	5.5	7.3	9.1	12.8	14.6	16.5	20.1	22.0
152.5°	1.8	3.7	5.5	5.5	7.3	9.1	11.0	12.8	14.6	16.5	18.3
155°	1.8	3.7	5.5	5.5	5.5	7.3	9.1	11.0	12.8	14.6	16.5
157.5°	3.7	3.7	3.7	5.5	5.5	7.3	7.3	9.1	11.0	11.0	12.8
160°	3.7	3.7	3.7	5.5	5.5	5.5	7.3	7.3	9.1	9.1	11.0
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°	3325.9	3325.9	3325.9	3325.9	3325.9	3325.9	3325.9	3325.9	3325.9	3325.9	3325.9
2.5°	3305.8	3311.3	3327.7	3327.7	3324.1	3320.4	3320.4	3314.9	3318.6	3325.9	3322.2
5°	3305.8	3311.3	3327.7	3327.7	3324.1	3320.4	3318.6	3313.1	3318.6	3325.9	3322.2
7.5°	3294.8	3302.1	3318.6	3318.6	3314.9	3313.1	3309.4	3305.8	3311.3	3318.6	3314.9
10°	3280.2	3287.5	3304.0	3304.0	3300.3	3300.3	3294.8	3291.1	3298.5	3304.0	3302.1
12.5°	3258.2	3267.4	3282.0	3280.2	3276.5	3278.3	3272.9	3265.5	3272.9	3278.3	3280.2
15°	3227.1	3238.1	3252.7	3249.1	3243.6	3247.2	3238.1	3232.6	3238.1	3249.1	3247.2
17.5°	3186.9	3194.2	3205.2	3205.2	3199.7	3196.0	3192.4	3186.9	3190.5	3197.8	3199.7
20°	3130.2	3139.3	3144.8	3139.3	3137.5	3132.0	3124.7	3119.2	3126.5	3137.5	3139.3
22.5°	3055.2	3057.0	3069.8	3057.0	3047.8	3046.0	3038.7	3027.7	3038.7	3047.8	3049.7
25°	2961.9	2971.0	2965.5	2943.6	2943.6	2928.9	2925.3	2919.8	2921.6	2938.1	2945.4
27.5°	2842.9	2846.6	2832.0	2813.7	2797.2	2788.1	2775.2	2777.1	2777.1	2799.0	2806.3
30°	2713.0	2692.9	2680.1	2650.8	2638.0	2616.1	2612.4	2612.4	2608.8	2619.7	2652.7
32.5°	2557.5	2530.1	2510.0	2482.5	2460.6	2438.6	2427.7	2433.1	2431.3	2458.8	2469.7
35°	2387.4	2370.9	2328.9	2294.1	2281.3	2248.4	2248.4	2231.9	2242.9	2274.0	2286.8
37.5°	2208.1	2182.5	2147.8	2109.3	2100.2	2074.6	2065.4	2056.3	2080.1	2085.6	2098.4
40°	2025.2	2001.4	1968.5	1931.9	1931.9	1900.8	1900.8	1900.8	1902.6	1913.6	1937.4
42.5°	1851.4	1825.8	1796.5	1770.9	1767.2	1743.4	1743.4	1741.6	1745.3	1754.4	1776.4
45°	1683.1	1663.0	1631.9	1619.0	1620.9	1595.3	1600.8	1595.3	1602.6	1611.7	1619.0
47.5°	1527.6	1514.8	1502.0	1483.7	1478.2	1476.4	1467.2	1459.9	1472.7	1472.7	1483.7
50°	1383.1	1375.7	1368.4	1357.4	1359.3	1352.0	1341.0	1341.0	1350.1	1352.0	1359.3
52.5°	1256.8	1247.7	1238.5	1240.4	1242.2	1238.5	1233.0	1227.5	1233.0	1236.7	1245.8
55°	1130.6	1123.3	1132.4	1128.8	1132.4	1128.8	1125.1	1121.4	1130.6	1125.1	1134.2
57.5°	1017.2	1024.5	1028.1	1020.8	1026.3	1022.7	1024.5	1019.0	1026.3	1030.0	1028.1
60°	912.9	923.9	918.4	920.2	927.5	923.9	916.5	922.0	929.4	931.2	929.4
62.5°	817.8	830.6	836.1	832.4	834.2	830.6	836.1	828.7	837.9	841.5	836.1
65°	731.8	746.4	750.1	750.1	750.1	746.4	751.9	753.7	757.4	757.4	753.7
67.5°	658.6	671.4	675.1	678.7	675.1	671.4	671.4	673.2	680.5	684.2	680.5
70°	592.7	605.5	607.4	607.4	609.2	612.9	605.5	609.2	614.7	616.5	614.7
72.5°	536.0	548.8	552.5	550.7	552.5	554.3	554.3	550.7	556.1	559.8	559.8
75°	490.3	497.6	501.3	501.3	503.1	504.9	504.9	503.1	506.8	508.6	510.4
77.5°	448.2	453.7	459.2	459.2	461.0	459.2	462.8	462.8	464.7	466.5	468.3
80°	406.1	413.5	417.1	418.9	422.6	424.4	424.4	424.4	426.3	428.1	428.1
82.5°	373.2	378.7	384.2	389.7	389.7	391.5	391.5	391.5	393.3	393.3	395.2
85°	340.3	347.6	353.1	356.7	358.6	360.4	360.4	362.2	362.2	362.2	364.1
87.5°	311.0	320.2	323.8	327.5	329.3	333.0	333.0	333.0	334.8	334.8	334.8
90°	290.9	300.0	303.7	307.3	309.2	311.0	311.0	312.8	312.8	314.7	314.7
92.5°	267.1	276.2	283.6	283.6	285.4	289.1	287.2	287.2	289.1	290.9	290.9
95°	248.8	256.1	261.6	263.4	265.3	265.3	265.3	267.1	265.3	267.1	267.1
97.5°	226.8	234.2	239.7	243.3	245.1	245.1	245.1	247.0	245.1	247.0	247.0
100°	208.6	215.9	221.4	223.2	226.8	226.8	226.8	226.8	226.8	226.8	228.7
102.5°	193.9	201.2	204.9	206.7	208.6	210.4	210.4	210.4	210.4	212.2	212.2
105°	179.3	186.6	190.3	192.1	193.9	195.7	195.7	195.7	197.6	197.6	195.7
107.5°	166.5	172.0	175.6	179.3	181.1	181.1	182.9	182.9	182.9	182.9	182.9
110°	153.7	159.2	164.6	168.3	168.3	170.1	170.1	172.0	172.0	170.1	172.0





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-106SL-LN-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	140.9	148.2	151.8	155.5	157.3	159.2	159.2	159.2	159.2	159.2	159.2
115°	129.9	137.2	140.9	144.5	146.4	148.2	148.2	148.2	148.2	148.2	148.2
117.5°	120.7	128.1	131.7	133.5	135.4	137.2	139.0	139.0	139.0	139.0	137.2
120°	111.6	117.1	120.7	124.4	126.2	128.1	128.1	128.1	128.1	128.1	128.1
122.5°	102.4	107.9	111.6	115.3	117.1	118.9	118.9	118.9	118.9	118.9	118.9
125°	93.3	98.8	102.4	106.1	107.9	109.8	109.8	109.8	109.8	109.8	109.8
127.5°	84.2	89.6	95.1	97.0	98.8	100.6	100.6	100.6	102.4	100.6	100.6
130°	75.0	80.5	86.0	87.8	89.6	91.5	93.3	93.3	93.3	93.3	91.5
132.5°	67.7	73.2	76.8	78.7	82.3	82.3	84.2	84.2	84.2	84.2	82.3
135°	62.2	65.9	69.5	71.3	75.0	75.0	75.0	76.8	76.8	75.0	73.2
137.5°	54.9	58.5	62.2	64.0	65.9	67.7	67.7	69.5	67.7	67.7	67.7
140°	51.2	53.1	56.7	58.5	60.4	60.4	60.4	62.2	62.2	60.4	60.4
142.5°	43.9	47.6	51.2	53.1	54.9	54.9	54.9	54.9	54.9	54.9	54.9
145°	36.6	42.1	43.9	47.6	47.6	49.4	49.4	49.4	49.4	49.4	47.6
147.5°	31.1	34.8	40.2	42.1	42.1	43.9	43.9	43.9	43.9	43.9	42.1
150°	23.8	27.4	32.9	36.6	36.6	38.4	38.4	38.4	38.4	36.6	36.6
152.5°	20.1	23.8	25.6	29.3	31.1	31.1	31.1	32.9	31.1	31.1	31.1
155°	18.3	20.1	22.0	23.8	25.6	27.4	27.4	27.4	27.4	25.6	25.6
157.5°	14.6	16.5	18.3	20.1	22.0	23.8	23.8	23.8	23.8	23.8	22.0
160°	11.0	12.8	14.6	14.6	16.5	18.3	20.1	18.3	18.3	18.3	18.3
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-106SL-LN-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3325.9	3325.9	3325.9	3325.9	3325.9	3325.9	3325.9	3325.9	3325.9	3325.9	3325.9
2.5°	3318.6	3316.8	3322.2	3313.1	3285.7	3293.0	3289.3	3305.8	3309.4	3313.1	3329.6
5°	3318.6	3316.8	3320.4	3313.1	3283.8	3289.3	3285.7	3302.1	3305.8	3307.6	3324.1
7.5°	3311.3	3309.4	3314.9	3305.8	3274.7	3282.0	3276.5	3293.0	3294.8	3296.6	3311.3
10°	3296.6	3294.8	3298.5	3291.1	3260.0	3267.4	3260.0	3276.5	3276.5	3280.2	3291.1
12.5°	3274.7	3271.0	3278.3	3269.2	3234.4	3243.6	3239.9	3250.9	3252.7	3254.6	3265.5
15°	3243.6	3239.9	3245.4	3239.9	3208.8	3210.7	3205.2	3221.6	3223.5	3219.8	3230.8
17.5°	3197.8	3194.2	3205.2	3201.5	3170.4	3177.7	3175.9	3179.6	3185.0	3175.9	3190.5
20°	3141.1	3144.8	3148.5	3150.3	3126.5	3126.5	3124.7	3132.0	3137.5	3130.2	3141.1
22.5°	3057.0	3066.1	3077.1	3080.8	3064.3	3062.5	3073.4	3069.8	3075.3	3071.6	3078.9
25°	2950.9	2969.2	2980.1	2991.1	2982.0	2985.6	3002.1	3005.8	3005.8	3003.9	3011.2
27.5°	2819.2	2842.9	2863.1	2886.8	2877.7	2885.0	2912.5	2916.1	2923.4	2916.1	2930.8
30°	2661.8	2683.8	2722.2	2757.0	2760.6	2771.6	2810.0	2813.7	2833.8	2826.5	2832.0
32.5°	2504.5	2515.5	2559.4	2594.1	2616.1	2643.5	2685.6	2692.9	2720.4	2725.9	2725.9
35°	2306.9	2338.0	2378.3	2427.7	2455.1	2484.4	2541.1	2552.1	2592.3	2605.1	2619.7
37.5°	2140.4	2169.7	2195.3	2246.5	2295.9	2328.9	2374.6	2402.0	2444.1	2467.9	2486.2
40°	1963.0	1986.8	2014.2	2065.4	2107.5	2156.9	2202.6	2235.6	2288.6	2316.1	2339.8
42.5°	1794.7	1813.0	1842.2	1878.8	1922.7	1977.6	2021.5	2059.9	2116.7	2155.1	2182.5
45°	1644.7	1655.6	1681.2	1708.7	1747.1	1803.8	1845.9	1895.3	1941.0	1981.3	2014.2
47.5°	1503.8	1518.4	1531.2	1549.5	1584.3	1619.0	1668.4	1716.0	1761.7	1805.7	1838.6
50°	1373.9	1373.9	1394.0	1406.8	1430.6	1461.7	1500.1	1533.1	1589.8	1620.9	1663.0
52.5°	1247.7	1255.0	1266.0	1273.3	1291.6	1311.7	1342.8	1370.2	1417.8	1447.1	1487.3
55°	1136.1	1143.4	1148.9	1152.5	1163.5	1187.3	1198.3	1220.2	1253.2	1276.9	1311.7
57.5°	1030.0	1033.6	1039.1	1040.9	1042.8	1057.4	1066.6	1072.0	1105.0	1128.8	1158.0
60°	933.0	933.0	938.5	936.7	934.8	942.2	940.3	945.8	965.9	980.6	993.4
62.5°	841.5	841.5	843.4	839.7	837.9	837.9	830.6	836.1	841.5	843.4	852.5
65°	757.4	766.5	759.2	761.0	750.1	746.4	742.7	731.8	729.9	722.6	726.3
67.5°	682.4	689.7	682.4	682.4	673.2	665.9	656.8	638.5	633.0	618.3	614.7
70°	622.0	616.5	620.2	614.7	603.7	594.6	581.8	567.1	548.8	530.5	517.7
72.5°	563.5	563.5	559.8	554.3	548.8	530.5	515.9	499.4	477.5	453.7	435.4
75°	506.8	508.6	508.6	503.1	493.9	477.5	461.0	437.2	413.5	386.0	362.2
77.5°	466.5	466.5	466.5	457.4	448.2	433.6	413.5	387.8	362.2	329.3	301.9
80°	428.1	426.3	426.3	415.3	406.1	389.7	369.5	343.9	316.5	281.7	250.6
82.5°	397.0	395.2	391.5	382.4	369.5	353.1	333.0	305.5	276.2	245.1	206.7
85°	364.1	362.2	358.6	349.4	336.6	322.0	300.0	272.6	243.3	208.6	172.0
87.5°	334.8	333.0	327.5	322.0	307.3	290.9	268.9	243.3	212.2	179.3	142.7
90°	314.7	311.0	307.3	300.0	287.2	268.9	247.0	219.5	188.4	155.5	118.9
92.5°	290.9	289.1	283.6	276.2	265.3	247.0	225.0	199.4	168.3	137.2	102.4
95°	267.1	265.3	261.6	254.3	243.3	226.8	206.7	181.1	151.8	120.7	89.6
97.5°	245.1	245.1	239.7	234.2	221.4	208.6	188.4	164.6	137.2	109.8	80.5
100°	226.8	226.8	221.4	214.0	204.9	192.1	172.0	150.0	124.4	98.8	69.5
102.5°	210.4	208.6	204.9	197.6	188.4	175.6	157.3	137.2	113.4	87.8	62.2
105°	195.7	193.9	190.3	182.9	175.6	161.0	146.4	126.2	102.4	78.7	54.9
107.5°	181.1	179.3	177.5	170.1	161.0	148.2	133.5	113.4	93.3	71.3	49.4
110°	168.3	166.5	162.8	155.5	146.4	135.4	120.7	104.3	84.2	64.0	43.9



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-106SL-LN-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	157.3	155.5	151.8	144.5	137.2	124.4	111.6	93.3	76.8	58.5	38.4
115°	146.4	144.5	140.9	133.5	124.4	113.4	100.6	86.0	67.7	51.2	34.8
117.5°	135.4	133.5	129.9	124.4	115.3	104.3	91.5	76.8	60.4	47.6	31.1
120°	126.2	122.6	118.9	113.4	104.3	95.1	82.3	69.5	54.9	42.1	27.4
122.5°	117.1	113.4	109.8	104.3	95.1	86.0	73.2	62.2	51.2	38.4	25.6
125°	106.1	104.3	100.6	95.1	86.0	76.8	67.7	56.7	45.7	34.8	22.0
127.5°	97.0	95.1	91.5	84.2	76.8	69.5	60.4	51.2	40.2	29.3	20.1
130°	89.6	86.0	82.3	76.8	71.3	64.0	54.9	45.7	36.6	25.6	18.3
132.5°	80.5	76.8	73.2	69.5	64.0	56.7	49.4	40.2	32.9	23.8	16.5
135°	73.2	69.5	65.9	62.2	56.7	51.2	43.9	36.6	29.3	22.0	14.6
137.5°	64.0	62.2	60.4	56.7	51.2	45.7	40.2	31.1	25.6	20.1	12.8
140°	58.5	56.7	54.9	49.4	45.7	40.2	34.8	27.4	22.0	16.5	11.0
142.5°	53.1	51.2	47.6	43.9	40.2	36.6	29.3	25.6	20.1	14.6	11.0
145°	45.7	43.9	42.1	38.4	34.8	29.3	25.6	22.0	18.3	12.8	9.1
147.5°	42.1	40.2	36.6	32.9	29.3	25.6	23.8	20.1	14.6	11.0	7.3
150°	34.8	32.9	31.1	27.4	25.6	23.8	20.1	16.5	12.8	9.1	7.3
152.5°	29.3	27.4	25.6	25.6	22.0	20.1	16.5	14.6	11.0	9.1	5.5
155°	25.6	25.6	23.8	22.0	18.3	16.5	14.6	11.0	9.1	7.3	5.5
157.5°	22.0	20.1	18.3	18.3	16.5	14.6	11.0	9.1	7.3	7.3	5.5
160°	18.3	16.5	16.5	14.6	12.8	11.0	9.1	9.1	7.3	5.5	5.5
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-LD5-106SL-LN-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3325.9	3325.9	3325.9	3325.9	3325.9	3325.9	3325.9	3325.9	3325.9	3325.9	3325.9
2.5°	3331.4	3311.3	3329.6	3353.4	3353.4	3349.7	3346.0	3353.4	3371.6	3364.3	3342.4
5°	3325.9	3305.8	3322.2	3346.0	3346.0	3340.5	3336.9	3342.4	3362.5	3353.4	3333.2
7.5°	3314.9	3296.6	3307.6	3329.6	3329.6	3324.1	3320.4	3327.7	3344.2	3335.1	3313.1
10°	3294.8	3274.7	3287.5	3307.6	3305.8	3302.1	3296.6	3305.8	3320.4	3307.6	3282.0
12.5°	3269.2	3249.1	3260.0	3278.3	3276.5	3269.2	3265.5	3271.0	3283.8	3276.5	3249.1
15°	3234.4	3214.3	3223.5	3241.8	3236.3	3230.8	3223.5	3225.3	3241.8	3228.9	3199.7
17.5°	3192.4	3170.4	3177.7	3194.2	3188.7	3183.2	3174.1	3175.9	3194.2	3175.9	3144.8
20°	3141.1	3117.4	3122.8	3143.0	3133.8	3124.7	3115.5	3115.5	3133.8	3113.7	3078.9
22.5°	3086.3	3062.5	3066.1	3080.8	3073.4	3057.0	3047.8	3053.3	3062.5	3036.9	3000.3
25°	3018.6	2987.5	2993.0	3007.6	3002.1	2980.1	2971.0	2974.7	2971.0	2950.9	2912.5
27.5°	2939.9	2907.0	2910.6	2919.8	2912.5	2892.3	2881.4	2883.2	2875.9	2850.3	2806.3
30°	2841.1	2824.6	2822.8	2828.3	2817.3	2797.2	2784.4	2780.7	2778.9	2742.3	2689.3
32.5°	2740.5	2725.9	2716.7	2724.0	2711.2	2691.1	2669.1	2669.1	2650.8	2616.1	2570.4
35°	2638.0	2614.3	2605.1	2610.6	2596.0	2570.4	2552.1	2542.9	2515.5	2471.6	2422.2
37.5°	2506.3	2489.9	2478.9	2484.4	2467.9	2449.6	2414.9	2405.7	2376.4	2316.1	2253.9
40°	2363.6	2350.8	2339.8	2345.3	2327.0	2299.6	2268.5	2253.9	2220.9	2153.2	2103.8
42.5°	2210.0	2204.5	2191.7	2211.8	2175.2	2147.8	2116.7	2092.9	2059.9	1986.8	1930.1
45°	2047.1	2059.9	2030.7	2036.2	2012.4	1988.6	1955.7	1920.9	1888.0	1818.5	1754.4
47.5°	1875.2	1884.3	1864.2	1867.9	1842.2	1820.3	1791.0	1747.1	1710.5	1650.1	1593.4
50°	1697.7	1694.1	1694.1	1690.4	1670.3	1642.8	1613.6	1573.3	1536.7	1481.8	1434.3
52.5°	1509.3	1516.6	1520.3	1529.4	1503.8	1487.3	1441.6	1406.8	1379.4	1322.7	1282.4
55°	1328.2	1353.8	1346.5	1350.1	1320.9	1308.0	1271.5	1244.0	1203.8	1170.8	1145.2
57.5°	1163.5	1169.0	1172.7	1178.2	1165.3	1139.7	1110.5	1088.5	1057.4	1030.0	1011.7
60°	1004.4	1004.4	1006.2	1015.3	1002.5	980.6	958.6	942.2	920.2	903.7	892.8
62.5°	854.3	867.2	869.0	861.7	845.2	834.2	819.6	810.4	795.8	790.3	786.7
65°	715.3	715.3	715.3	719.0	709.8	702.5	693.4	691.5	697.0	689.7	693.4
67.5°	598.2	592.7	589.1	590.9	587.2	583.6	581.8	587.2	598.2	598.2	607.4
70°	497.6	486.6	479.3	479.3	479.3	481.1	486.6	497.6	515.9	523.2	536.0
72.5°	415.3	391.5	380.5	380.5	382.4	389.7	406.1	426.3	442.7	457.4	473.8
75°	336.6	312.8	296.4	294.5	298.2	309.2	333.0	351.3	378.7	398.8	418.9
77.5°	272.6	243.3	223.2	221.4	226.8	243.3	272.6	296.4	327.5	349.4	371.4
80°	217.7	184.8	168.3	157.3	166.5	186.6	219.5	248.8	278.1	307.3	334.8
82.5°	173.8	142.7	117.1	106.1	117.1	144.5	175.6	210.4	239.7	270.8	298.2
85°	137.2	104.3	75.0	64.0	76.8	106.1	140.9	175.6	208.6	239.7	267.1
87.5°	107.9	75.0	45.7	31.1	47.6	78.7	111.6	146.4	181.1	212.2	239.7
90°	84.2	53.1	25.6	3.7	27.4	56.7	89.6	122.6	157.3	188.4	215.9
92.5°	71.3	40.2	14.6	0.0	16.5	42.1	73.2	106.1	137.2	168.3	195.7
95°	60.4	32.9	11.0	0.0	11.0	32.9	60.4	89.6	120.7	151.8	179.3
97.5°	51.2	25.6	7.3	0.0	7.3	25.6	49.4	78.7	106.1	135.4	161.0
100°	43.9	22.0	5.5	0.0	5.5	20.1	42.1	67.7	95.1	122.6	146.4
102.5°	38.4	18.3	3.7	0.0	3.7	16.5	34.8	58.5	82.3	107.9	131.7
105°	32.9	14.6	3.7	0.0	1.8	12.8	29.3	51.2	73.2	97.0	118.9
107.5°	29.3	12.8	3.7	0.0	1.8	11.0	25.6	43.9	65.9	86.0	106.1
110°	25.6	11.0	3.7	0.0	1.8	7.3	22.0	38.4	56.7	76.8	97.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-106SL-LN-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	22.0	9.1	1.8	0.0	0.0	5.5	18.3	32.9	49.4	69.5	86.0
115°	20.1	9.1	1.8	0.0	0.0	3.7	14.6	29.3	43.9	62.2	76.8
117.5°	18.3	7.3	1.8	0.0	1.8	3.7	12.8	25.6	38.4	53.1	69.5
120°	16.5	7.3	1.8	0.0	1.8	1.8	9.1	22.0	32.9	47.6	60.4
122.5°	14.6	7.3	1.8	0.0	1.8	1.8	7.3	18.3	29.3	42.1	53.1
125°	12.8	5.5	3.7	1.8	1.8	1.8	5.5	14.6	25.6	34.8	47.6
127.5°	12.8	5.5	3.7	1.8	1.8	1.8	3.7	12.8	20.1	31.1	42.1
130°	11.0	5.5	3.7	1.8	1.8	1.8	1.8	9.1	18.3	25.6	34.8
132.5°	9.1	5.5	3.7	1.8	1.8	1.8	1.8	5.5	12.8	22.0	29.3
135°	9.1	5.5	3.7	1.8	1.8	1.8	1.8	3.7	9.1	16.5	23.8
137.5°	7.3	3.7	3.7	1.8	1.8	1.8	1.8	1.8	7.3	12.8	18.3
140°	7.3	3.7	3.7	1.8	1.8	1.8	1.8	1.8	5.5	9.1	14.6
142.5°	5.5	3.7	3.7	1.8	1.8	1.8	1.8	1.8	3.7	7.3	11.0
145°	5.5	3.7	3.7	1.8	1.8	1.8	1.8	1.8	1.8	3.7	7.3
147.5°	5.5	5.5	3.7	1.8	1.8	1.8	1.8	1.8	1.8	3.7	5.5
150°	5.5	3.7	3.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.7
152.5°	5.5	3.7	3.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.7
155°	5.5	3.7	3.7	1.8	1.8	1.8	1.8	1.8	1.8	3.7	3.7
157.5°	5.5	3.7	3.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.7
160°	5.5	3.7	3.7	1.8	3.7	1.8	3.7	3.7	3.7	3.7	3.7
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-106SL-LN-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3325.9	3325.9	3325.9	3325.9	3325.9	3325.9	3325.9	3325.9	3325.9	3325.9	3325.9
2.5°	3335.1	3300.3	3318.6	3313.1	3320.4	3335.1	3333.2	3329.6	3329.6	3324.1	3316.8
5°	3324.1	3291.1	3307.6	3298.5	3307.6	3320.4	3318.6	3313.1	3316.8	3307.6	3298.5
7.5°	3302.1	3272.9	3287.5	3280.2	3287.5	3300.3	3294.8	3293.0	3296.6	3282.0	3276.5
10°	3276.5	3243.6	3260.0	3250.9	3260.0	3269.2	3265.5	3258.2	3265.5	3250.9	3245.4
12.5°	3236.3	3208.8	3219.8	3216.1	3221.6	3230.8	3223.5	3218.0	3221.6	3208.8	3197.8
15°	3192.4	3164.9	3174.1	3168.6	3172.2	3183.2	3170.4	3168.6	3164.9	3152.1	3148.5
17.5°	3135.6	3110.0	3119.2	3110.0	3115.5	3111.9	3110.0	3100.9	3100.9	3086.3	3075.3
20°	3066.1	3044.2	3038.7	3031.4	3038.7	3031.4	3020.4	3013.1	3011.2	2996.6	2987.5
22.5°	2985.6	2960.0	2963.7	2943.6	2945.4	2934.4	2916.1	2908.8	2901.5	2885.0	2872.2
25°	2888.7	2863.1	2844.8	2832.0	2815.5	2813.7	2789.9	2771.6	2769.8	2749.6	2747.8
27.5°	2778.9	2749.6	2735.0	2703.9	2683.8	2667.3	2647.2	2628.9	2619.7	2597.8	2583.2
30°	2652.7	2619.7	2583.2	2561.2	2530.1	2517.3	2482.5	2460.6	2453.3	2429.5	2418.5
32.5°	2510.0	2475.2	2446.0	2403.9	2369.1	2350.8	2316.1	2294.1	2285.0	2259.3	2244.7
35°	2354.5	2316.1	2281.3	2241.1	2213.6	2182.5	2140.4	2118.5	2098.4	2089.2	2078.2
37.5°	2191.7	2149.6	2109.3	2069.1	2045.3	2008.7	1972.1	1957.5	1933.7	1924.6	1913.6
40°	2023.4	1981.3	1942.9	1904.4	1877.0	1844.1	1811.1	1805.7	1780.0	1770.9	1763.6
42.5°	1856.9	1813.0	1769.1	1741.6	1721.5	1688.6	1666.6	1661.1	1639.2	1633.7	1633.7
45°	1706.9	1652.0	1615.4	1591.6	1575.1	1547.7	1529.4	1525.7	1507.5	1503.8	1503.8
47.5°	1545.9	1494.6	1467.2	1452.6	1437.9	1417.8	1406.8	1406.8	1388.5	1384.9	1383.1
50°	1395.9	1348.3	1328.2	1313.5	1311.7	1297.1	1287.9	1284.3	1284.3	1271.5	1273.3
52.5°	1253.2	1229.4	1212.9	1203.8	1192.8	1183.6	1176.3	1176.3	1170.8	1161.7	1165.3
55°	1121.4	1094.0	1095.8	1088.5	1083.0	1077.5	1079.4	1068.4	1066.6	1059.2	1064.7
57.5°	989.7	989.7	986.1	980.6	971.4	975.1	975.1	975.1	965.9	960.5	965.9
60°	878.1	883.6	874.5	880.0	876.3	878.1	874.5	874.5	869.0	867.2	869.0
62.5°	779.3	788.5	784.8	792.1	788.5	790.3	794.0	786.7	783.0	779.3	783.0
65°	691.5	702.5	700.7	706.2	708.0	709.8	711.6	708.0	704.3	700.7	698.8
67.5°	614.7	625.7	633.0	634.8	636.6	642.1	640.3	636.6	633.0	627.5	625.7
70°	545.2	559.8	569.0	572.6	579.9	576.3	576.3	574.4	570.8	565.3	563.5
72.5°	486.6	503.1	512.2	515.9	523.2	523.2	521.4	519.6	515.9	510.4	508.6
75°	435.4	450.0	462.8	470.2	475.7	475.7	473.8	472.0	468.3	464.7	462.8
77.5°	395.2	408.0	418.9	428.1	431.7	433.6	431.7	428.1	428.1	426.3	424.4
80°	354.9	369.5	380.5	389.7	395.2	395.2	393.3	395.2	391.5	389.7	387.8
82.5°	320.2	336.6	349.4	358.6	362.2	364.1	362.2	364.1	360.4	360.4	360.4
85°	289.1	305.5	320.2	327.5	333.0	334.8	334.8	334.8	333.0	333.0	333.0
87.5°	263.4	279.9	294.5	301.9	307.3	309.2	309.2	311.0	307.3	307.3	307.3
90°	239.7	256.1	270.8	278.1	283.6	287.2	287.2	289.1	287.2	285.4	285.4
92.5°	217.7	236.0	250.6	258.0	263.4	268.9	268.9	270.8	267.1	267.1	267.1
95°	199.4	217.7	230.5	239.7	245.1	248.8	250.6	250.6	248.8	248.8	248.8
97.5°	182.9	199.4	212.2	221.4	226.8	228.7	230.5	232.3	230.5	230.5	230.5
100°	166.5	182.9	195.7	203.1	210.4	212.2	214.0	215.9	215.9	214.0	214.0
102.5°	151.8	168.3	179.3	188.4	193.9	197.6	199.4	199.4	199.4	199.4	199.4
105°	137.2	153.7	164.6	173.8	179.3	182.9	184.8	186.6	186.6	184.8	184.8
107.5°	124.4	139.0	151.8	159.2	166.5	170.1	172.0	172.0	173.8	172.0	172.0
110°	111.6	128.1	139.0	146.4	153.7	157.3	159.2	161.0	161.0	161.0	161.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-106SL-LN-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	102.4	115.3	126.2	133.5	140.9	144.5	146.4	148.2	150.0	148.2	148.2
115°	91.5	104.3	115.3	122.6	128.1	131.7	135.4	137.2	137.2	139.0	137.2
117.5°	82.3	93.3	104.3	111.6	117.1	122.6	124.4	126.2	128.1	126.2	126.2
120°	73.2	84.2	93.3	100.6	106.1	111.6	113.4	115.3	117.1	115.3	115.3
122.5°	65.9	75.0	84.2	91.5	97.0	100.6	104.3	104.3	106.1	106.1	106.1
125°	58.5	67.7	75.0	82.3	87.8	91.5	93.3	95.1	95.1	97.0	97.0
127.5°	51.2	58.5	67.7	73.2	78.7	82.3	84.2	86.0	86.0	87.8	87.8
130°	43.9	51.2	58.5	64.0	69.5	73.2	75.0	76.8	78.7	78.7	78.7
132.5°	38.4	45.7	51.2	56.7	60.4	64.0	67.7	69.5	69.5	69.5	69.5
135°	31.1	38.4	43.9	49.4	53.1	56.7	58.5	62.2	62.2	62.2	62.2
137.5°	25.6	32.9	38.4	42.1	45.7	49.4	51.2	53.1	54.9	54.9	54.9
140°	20.1	25.6	31.1	36.6	40.2	42.1	45.7	45.7	47.6	47.6	47.6
142.5°	14.6	20.1	23.8	29.3	32.9	36.6	38.4	40.2	40.2	40.2	40.2
145°	11.0	14.6	18.3	22.0	27.4	29.3	31.1	32.9	34.8	34.8	34.8
147.5°	7.3	11.0	12.8	16.5	20.1	23.8	25.6	27.4	29.3	29.3	29.3
150°	5.5	7.3	11.0	12.8	14.6	18.3	22.0	22.0	23.8	23.8	22.0
152.5°	3.7	5.5	7.3	9.1	11.0	12.8	16.5	16.5	18.3	18.3	18.3
155°	3.7	3.7	3.7	5.5	7.3	9.1	11.0	12.8	12.8	12.8	12.8
157.5°	3.7	3.7	3.7	3.7	3.7	5.5	7.3	9.1	9.1	9.1	9.1
160°	3.7	3.7	1.8	1.8	3.7	3.7	3.7	3.7	5.5	5.5	5.5
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-LD5-106SL-LN-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3325.9	3325.9	3325.9	3325.9	3325.9	3325.9	3325.9	3325.9	3325.9	3325.9	3325.9
2.5°	3322.2	3325.9	3325.9	3322.2	3320.4	3327.7	3318.6	3283.8	3294.8	3298.5	3309.4
5°	3305.8	3309.4	3309.4	3309.4	3305.8	3313.1	3304.0	3269.2	3282.0	3287.5	3294.8
7.5°	3282.0	3283.8	3287.5	3285.7	3282.0	3293.0	3283.8	3249.1	3258.2	3267.4	3276.5
10°	3250.9	3250.9	3252.7	3256.4	3252.7	3261.9	3252.7	3221.6	3230.8	3236.3	3247.2
12.5°	3208.8	3212.5	3214.3	3212.5	3210.7	3218.0	3214.3	3185.0	3188.7	3199.7	3210.7
15°	3152.1	3152.1	3161.3	3157.6	3157.6	3164.9	3168.6	3135.6	3141.1	3157.6	3168.6
17.5°	3082.6	3084.4	3091.7	3095.4	3093.6	3106.4	3108.2	3082.6	3080.8	3100.9	3111.9
20°	2993.0	2996.6	3005.8	3013.1	3013.1	3027.7	3033.2	3016.7	3018.6	3040.5	3044.2
22.5°	2883.2	2883.2	2899.7	2910.6	2919.8	2928.9	2945.4	2930.8	2930.8	2960.0	2976.5
25°	2747.8	2760.6	2766.1	2788.1	2800.9	2826.5	2841.1	2842.9	2844.8	2872.2	2883.2
27.5°	2597.8	2601.5	2617.9	2643.5	2658.2	2681.9	2709.4	2714.9	2724.0	2760.6	2777.1
30°	2427.7	2438.6	2446.0	2482.5	2502.7	2533.8	2568.5	2581.3	2588.6	2638.0	2658.2
32.5°	2253.9	2257.5	2288.6	2308.7	2332.5	2365.5	2405.7	2429.5	2444.1	2495.3	2524.6
35°	2080.1	2087.4	2113.0	2138.6	2162.4	2195.3	2237.4	2270.3	2295.9	2341.7	2380.1
37.5°	1920.9	1939.2	1944.7	1970.3	1988.6	2021.5	2050.8	2098.4	2124.0	2171.5	2220.9
40°	1778.2	1783.7	1787.4	1813.0	1825.8	1856.9	1899.0	1930.1	1964.8	1999.6	2058.1
42.5°	1637.3	1641.0	1646.5	1661.1	1675.8	1697.7	1728.8	1759.9	1796.5	1847.7	1886.1
45°	1507.5	1511.1	1514.8	1523.9	1536.7	1556.8	1577.0	1598.9	1635.5	1679.4	1719.7
47.5°	1386.7	1394.0	1394.0	1395.9	1405.0	1421.5	1436.1	1463.5	1483.7	1507.5	1553.2
50°	1271.5	1276.9	1278.8	1278.8	1284.3	1295.2	1298.9	1317.2	1335.5	1357.4	1390.4
52.5°	1163.5	1163.5	1161.7	1169.0	1169.0	1176.3	1178.2	1189.1	1201.9	1225.7	1240.4
55°	1061.1	1061.1	1066.6	1062.9	1062.9	1066.6	1064.7	1066.6	1077.5	1092.2	1105.0
57.5°	962.3	960.5	965.9	962.3	960.5	964.1	967.8	960.5	962.3	976.9	976.9
60°	863.5	865.3	870.8	867.2	867.2	867.2	863.5	859.8	856.2	865.3	869.0
62.5°	784.8	779.3	784.8	779.3	783.0	781.2	777.5	770.2	772.0	768.4	764.7
65°	702.5	702.5	704.3	698.8	702.5	702.5	697.0	695.2	684.2	680.5	671.4
67.5°	631.2	631.2	633.0	629.3	629.3	631.2	625.7	620.2	609.2	603.7	590.9
70°	569.0	569.0	569.0	567.1	567.1	567.1	563.5	556.1	545.2	536.0	519.6
72.5°	512.2	514.1	512.2	512.2	517.7	512.2	506.8	499.4	490.3	472.0	457.4
75°	466.5	468.3	466.5	466.5	466.5	464.7	462.8	451.9	440.9	426.3	404.3
77.5°	426.3	426.3	428.1	426.3	426.3	424.4	418.9	409.8	397.0	384.2	358.6
80°	387.8	389.7	391.5	393.3	389.7	387.8	382.4	375.0	358.6	343.9	318.3
82.5°	360.4	358.6	360.4	362.2	358.6	356.7	351.3	342.1	329.3	309.2	283.6
85°	333.0	331.1	331.1	333.0	331.1	327.5	322.0	312.8	300.0	279.9	254.3
87.5°	305.5	307.3	309.2	307.3	305.5	301.9	296.4	287.2	272.6	256.1	228.7
90°	285.4	285.4	285.4	285.4	283.6	279.9	274.4	263.4	250.6	230.5	206.7
92.5°	267.1	267.1	267.1	267.1	265.3	259.8	254.3	245.1	230.5	210.4	188.4
95°	248.8	250.6	248.8	248.8	245.1	243.3	234.2	225.0	212.2	192.1	168.3
97.5°	228.7	230.5	228.7	228.7	226.8	223.2	217.7	206.7	193.9	175.6	153.7
100°	214.0	214.0	212.2	212.2	210.4	206.7	199.4	190.3	177.5	159.2	137.2
102.5°	197.6	199.4	197.6	197.6	193.9	190.3	184.8	175.6	162.8	144.5	124.4
105°	184.8	184.8	182.9	182.9	179.3	175.6	170.1	159.2	148.2	131.7	111.6
107.5°	172.0	172.0	170.1	170.1	166.5	162.8	155.5	146.4	135.4	118.9	100.6
110°	159.2	159.2	159.2	157.3	153.7	148.2	142.7	133.5	122.6	107.9	89.6





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-106SL-LN-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	150.0	148.2	146.4	144.5	140.9	137.2	129.9	120.7	109.8	97.0	80.5
115°	137.2	137.2	135.4	133.5	129.9	124.4	118.9	111.6	100.6	86.0	71.3
117.5°	126.2	126.2	124.4	122.6	118.9	113.4	107.9	100.6	89.6	76.8	64.0
120°	115.3	115.3	113.4	111.6	107.9	102.4	98.8	89.6	80.5	67.7	56.7
122.5°	106.1	104.3	104.3	100.6	98.8	93.3	87.8	80.5	71.3	60.4	49.4
125°	95.1	95.1	93.3	91.5	89.6	84.2	78.7	71.3	62.2	53.1	43.9
127.5°	86.0	86.0	84.2	82.3	80.5	75.0	69.5	64.0	54.9	45.7	36.6
130°	76.8	76.8	75.0	73.2	71.3	65.9	62.2	54.9	47.6	40.2	31.1
132.5°	69.5	69.5	67.7	65.9	62.2	58.5	54.9	47.6	42.1	34.8	27.4
135°	62.2	60.4	60.4	58.5	54.9	51.2	47.6	42.1	34.8	29.3	22.0
137.5°	54.9	53.1	51.2	49.4	47.6	43.9	40.2	36.6	31.1	23.8	18.3
140°	47.6	45.7	45.7	43.9	40.2	38.4	34.8	29.3	25.6	20.1	14.6
142.5°	40.2	40.2	38.4	36.6	34.8	32.9	29.3	25.6	20.1	16.5	11.0
145°	34.8	32.9	32.9	31.1	29.3	25.6	23.8	20.1	16.5	12.8	9.1
147.5°	27.4	27.4	27.4	25.6	23.8	22.0	20.1	16.5	12.8	9.1	5.5
150°	22.0	22.0	22.0	20.1	18.3	16.5	14.6	12.8	9.1	5.5	3.7
152.5°	18.3	18.3	16.5	16.5	14.6	12.8	11.0	9.1	5.5	3.7	3.7
155°	12.8	12.8	12.8	11.0	11.0	9.1	7.3	5.5	3.7	3.7	3.7
157.5°	9.1	9.1	9.1	7.3	7.3	5.5	5.5	3.7	3.7	3.7	3.7
160°	5.5	5.5	5.5	5.5	3.7	3.7	3.7	3.7	3.7	3.7	3.7
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-106SL-LN-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	3325.9	3325.9	3325.9	3325.9	3325.9	3325.9	3325.9
2.5°	3304.0	3302.1	3316.8	3316.8	3300.3	3325.9	3353.4
5°	3293.0	3291.1	3305.8	3305.8	3291.1	3316.8	3346.0
7.5°	3271.0	3272.9	3287.5	3291.1	3272.9	3296.6	3327.7
10°	3247.2	3245.4	3261.9	3265.5	3250.9	3272.9	3302.1
12.5°	3208.8	3208.8	3225.3	3230.8	3216.1	3241.8	3269.2
15°	3168.6	3168.6	3179.6	3188.7	3175.9	3199.7	3227.1
17.5°	3117.4	3115.5	3126.5	3137.5	3124.7	3150.3	3179.6
20°	3051.5	3051.5	3064.3	3077.1	3068.0	3091.7	3124.7
22.5°	2982.0	2974.7	2996.6	3005.8	3000.3	3024.1	3057.0
25°	2894.2	2892.3	2914.3	2927.1	2919.8	2945.4	2974.7
27.5°	2799.0	2797.2	2819.2	2835.6	2832.0	2855.7	2888.7
30°	2683.8	2692.9	2713.0	2740.5	2731.3	2757.0	2791.7
32.5°	2563.0	2572.2	2596.0	2625.2	2627.1	2647.2	2681.9
35°	2418.5	2442.3	2458.8	2497.2	2504.5	2524.6	2561.2
37.5°	2266.7	2294.1	2328.9	2358.1	2372.8	2389.2	2431.3
40°	2096.5	2136.8	2175.2	2210.0	2228.2	2244.7	2285.0
42.5°	1942.9	1974.0	2010.5	2045.3	2078.2	2092.9	2134.9
45°	1769.1	1805.7	1838.6	1880.7	1913.6	1930.1	1972.1
47.5°	1598.9	1635.5	1679.4	1708.7	1743.4	1759.9	1800.2
50°	1436.1	1469.0	1505.6	1540.4	1569.7	1584.3	1619.0
52.5°	1275.1	1309.9	1344.6	1366.6	1397.7	1408.7	1437.9
55°	1132.4	1156.2	1187.3	1200.1	1231.2	1238.5	1258.6
57.5°	995.2	1011.7	1022.7	1044.6	1066.6	1083.0	1106.8
60°	870.8	878.1	885.4	898.3	916.5	922.0	931.2
62.5°	759.2	757.4	772.0	775.7	777.5	795.8	786.7
65°	660.4	662.3	649.4	644.0	651.3	656.8	653.1
67.5°	578.1	567.1	556.1	543.3	532.4	537.9	532.4
70°	497.6	488.5	470.2	451.9	444.6	433.6	428.1
72.5°	433.6	411.6	393.3	369.5	356.7	343.9	334.8
75°	384.2	353.1	327.5	301.9	283.6	265.3	261.6
77.5°	333.0	303.7	274.4	247.0	219.5	199.4	192.1
80°	292.7	265.3	230.5	197.6	168.3	142.7	133.5
82.5°	256.1	226.8	192.1	157.3	124.4	97.0	86.0
85°	225.0	193.9	159.2	124.4	91.5	62.2	47.6
87.5°	201.2	166.5	131.7	98.8	64.0	34.8	18.3
90°	179.3	146.4	113.4	78.7	45.7	18.3	0.0
92.5°	159.2	128.1	95.1	64.0	34.8	11.0	1.8
95°	140.9	113.4	80.5	51.2	25.6	7.3	1.8
97.5°	126.2	98.8	69.5	42.1	20.1	5.5	1.8
100°	113.4	86.0	60.4	34.8	16.5	3.7	1.8
102.5°	100.6	76.8	51.2	29.3	12.8	1.8	1.8
105°	89.6	67.7	43.9	25.6	11.0	1.8	1.8
107.5°	80.5	60.4	38.4	22.0	7.3	1.8	1.8
110°	71.3	51.2	32.9	18.3	5.5	1.8	1.8



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-106SL-LN-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	64.0	45.7	29.3	14.6	3.7	1.8	1.8
115°	56.7	40.2	25.6	12.8	3.7	1.8	1.8
117.5°	49.4	34.8	22.0	9.1	1.8	1.8	1.8
120°	43.9	31.1	18.3	7.3	1.8	1.8	1.8
122.5°	38.4	25.6	14.6	5.5	1.8	1.8	1.8
125°	32.9	22.0	12.8	3.7	1.8	1.8	1.8
127.5°	27.4	18.3	9.1	3.7	1.8	1.8	1.8
130°	23.8	14.6	7.3	1.8	1.8	1.8	1.8
132.5°	20.1	11.0	5.5	1.8	1.8	1.8	1.8
135°	16.5	9.1	3.7	1.8	1.8	1.8	1.8
137.5°	12.8	7.3	3.7	1.8	1.8	1.8	1.8
140°	9.1	5.5	1.8	1.8	1.8	1.8	1.8
142.5°	7.3	3.7	1.8	1.8	1.8	1.8	1.8
145°	5.5	3.7	1.8	1.8	1.8	1.8	1.8
147.5°	3.7	3.7	3.7	3.7	1.8	1.8	1.8
150°	3.7	3.7	1.8	1.8	3.7	1.8	1.8
152.5°	3.7	1.8	1.8	1.8	3.7	1.8	1.8
155°	3.7	3.7	3.7	3.7	3.7	3.7	1.8
157.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7
160°	3.7	3.7	3.7	3.7	3.7	3.7	3.7
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)