

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P1214242

Luminaire Tested: 4SNLED-LD5-85SL-LC-UNV-L950-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1214242
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33518)
Test Lab: INNOVATIONS CENTER-P3
Issue Date: 3/29/2018
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4SNLED-LD5-85SL-LC-UNV-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR LENSED
Light Source: -
Ballast/Driver: -

Summary

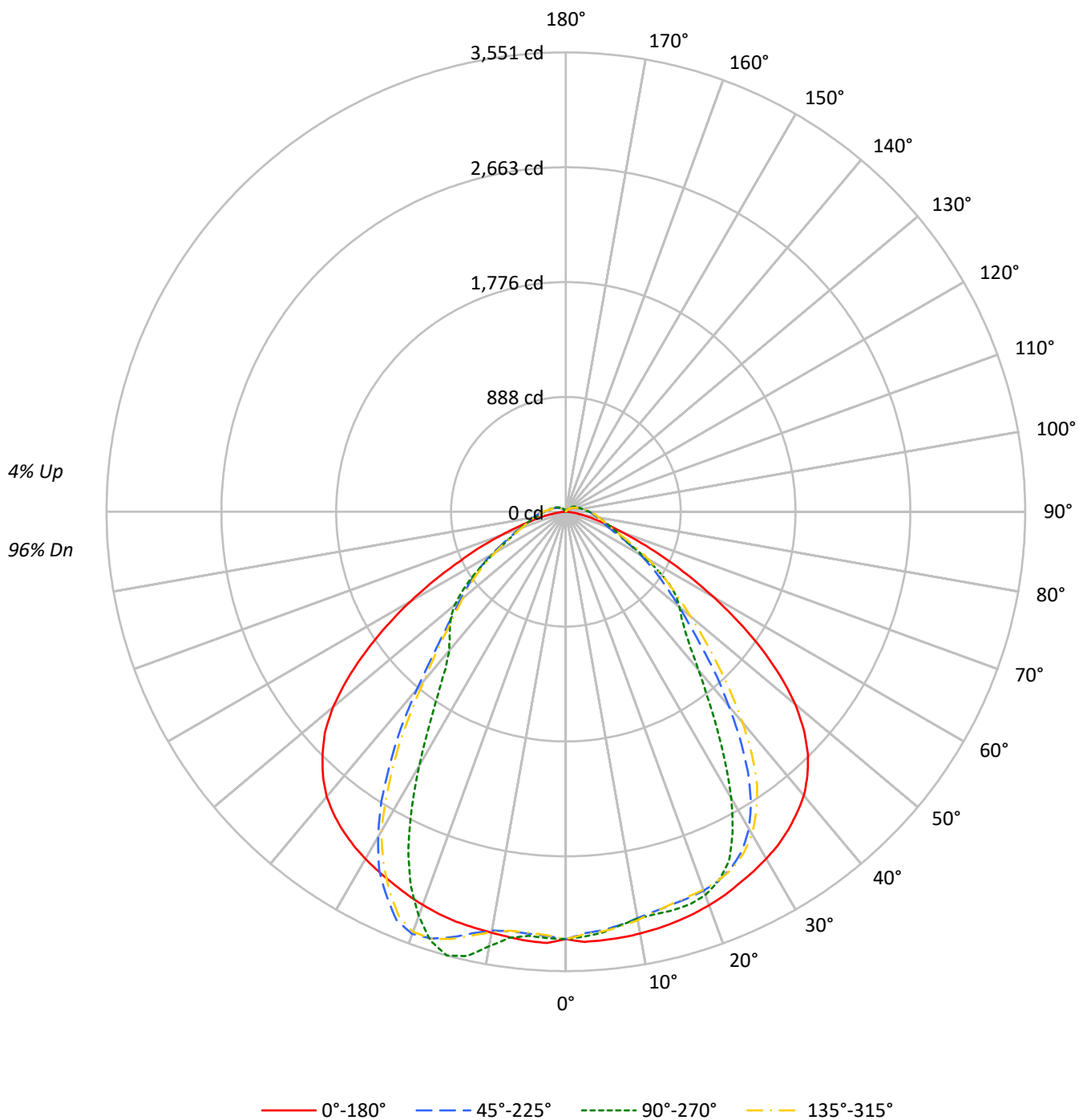
Lumens per Lamp: N/A
Luminaire Lumens: 7876.0 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 85
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: 24 FT

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Luminous Intensity Polar Plot



TEST NUMBER: P1214242

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	98	98	96
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	84	84	84	82
2	100	93	86	81	97	90	85	80	86	82	77	82	79	75	79	76	73	73	73	71
3	92	83	75	69	89	81	74	68	77	71	67	74	69	65	71	67	63	63	63	61
4	85	74	66	60	83	73	65	59	70	63	58	67	61	57	64	60	56	56	56	54
5	79	67	59	52	76	66	58	52	63	56	51	61	55	50	59	53	49	49	49	47
6	73	61	52	46	71	60	52	46	57	51	45	55	49	45	54	48	44	44	44	42
7	68	55	47	42	66	54	47	41	53	46	41	51	45	40	49	44	40	40	40	38
8	64	51	43	37	62	50	42	37	48	42	37	47	41	36	45	40	36	36	36	34
9	60	47	39	34	58	46	39	34	45	38	33	43	37	33	42	37	33	33	33	31
10	56	43	36	31	54	43	36	31	42	35	30	40	34	30	39	34	30	30	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	26698	26698	26698	26698
5°	26893	25639	26948	25840
10°	27017	24573	26961	26241
15°	27226	24244	27212	26994
20°	27526	23860	27497	25151
25°	27865	22636	27850	21871
30°	28389	19618	28405	17380
35°	28945	15863	29028	13424
40°	29435	12773	29559	11253
45°	29332	10819	29482	10535
50°	28067	9961	28460	9739
55°	24902	8953	25524	8139
60°	20199	6853	21272	6284
65°	15015	5243	16177	4972
70°	10212	4526	11511	4327
75°	6680	4083	7779	3861
80°	4317	3808	5060	3503
85°	2213	3798	2917	3470

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 180°

Vertical Angle: 45°

Luminance: 29482 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.8	4.0
10°-20°	933.7	11.9
20°-30°	1419.5	18.0
30°-40°	1522.8	19.3
40°-50°	1321.6	16.8
50°-60°	979.5	12.4
60°-70°	561.2	7.1
70°-80°	310.8	3.9
80°-90°	189.2	2.4
90°-100°	123.1	1.6
100°-110°	82.4	1.0
110°-120°	55.7	0.7
120°-130°	34.1	0.4
130°-140°	18.0	0.2
140°-150°	8.2	0.1
150°-160°	2.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2667.1	33.9
0°-40°	4189.9	53.2
0°-60°	6491.0	82.4
0°-90°	7552.2	95.9
90°-120°	261.1	3.3
90°-150°	321.4	4.1
90°-180°	324.0	4.1
0°-180°	7876.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3304	3304	3304	3304	3304	
5°	3324	3264	3331	3290	3324	317
15°	3282	3189	3280	3551	3282	929
25°	3171	2983	3169	2882	3171	1466
35°	2998	2031	3007	1718	2998	1877
45°	2647	1302	2660	1268	2647	2026
55°	1846	976	1892	887	1846	1637
65°	838	495	903	469	838	845
75°	239	314	278	297	239	273
85°	32	217	43	198	32	43
90°	0	181	3	167	0	1
95°	2	148	0	142	2	1
105°	2	111	2	106	2	2
115°	2	90	2	82	2	2
125°	2	68	2	56	2	2
135°	2	43	2	36	2	1
145°	2	26	3	20	2	1
155°	3	12	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°	3303.8	3303.8	3303.8	3303.8	3303.8	3303.8	3303.8	3303.8	3303.8	3303.8	3303.8
2.5°	3327.7	3319.1	3315.7	3308.9	3314.0	3334.5	3320.8	3298.7	3300.4	3261.1	3281.6
5°	3324.3	3314.0	3308.9	3302.1	3305.5	3324.3	3310.6	3288.4	3286.7	3247.5	3266.2
7.5°	3319.1	3308.9	3300.4	3295.2	3297.0	3312.3	3295.2	3269.7	3264.5	3221.9	3238.9
10°	3310.6	3303.8	3291.8	3283.3	3281.6	3298.7	3271.4	3245.8	3233.8	3189.4	3206.5
12.5°	3298.7	3288.4	3276.5	3261.1	3259.4	3269.7	3247.5	3211.6	3199.7	3163.8	3182.6
15°	3281.6	3269.7	3256.0	3238.9	3230.4	3237.2	3209.9	3177.5	3175.8	3145.1	3170.7
17.5°	3262.8	3245.8	3230.4	3206.5	3194.6	3199.7	3177.5	3148.5	3151.9	3133.1	3162.1
20°	3237.2	3218.5	3194.6	3170.7	3153.6	3162.1	3146.8	3124.6	3129.7	3116.1	3141.7
22.5°	3208.2	3182.6	3153.6	3126.3	3112.7	3124.6	3112.7	3093.9	3095.6	3087.1	3102.4
25°	3170.7	3141.7	3107.5	3073.4	3066.6	3075.1	3068.3	3052.9	3046.1	3032.4	3039.3
27.5°	3136.5	3104.1	3061.5	3025.6	3013.7	3030.7	3015.4	2989.8	2971.0	2952.2	2938.6
30°	3097.3	3058.0	3010.3	2969.3	2959.1	2965.9	2943.7	2904.5	2855.0	2831.1	2793.5
32.5°	3054.6	3003.4	2943.7	2897.6	2890.8	2885.7	2844.7	2788.4	2711.6	2663.8	2605.8
35°	2998.3	2942.0	2870.3	2814.0	2803.8	2774.8	2708.2	2633.1	2534.2	2452.2	2353.3
37.5°	2935.2	2868.6	2793.5	2718.5	2689.4	2631.4	2537.6	2459.1	2308.9	2209.9	2090.5
40°	2863.5	2783.3	2691.1	2600.7	2552.9	2459.1	2351.6	2235.5	2090.5	1957.4	1856.7
42.5°	2764.5	2679.2	2570.0	2469.3	2387.4	2262.8	2136.5	1972.7	1839.6	1727.0	1624.6
45°	2646.8	2544.4	2418.1	2296.9	2192.9	2044.4	1895.9	1732.1	1621.2	1489.8	1419.8
47.5°	2494.9	2384.0	2249.2	2114.4	1977.8	1814.0	1658.7	1501.7	1390.8	1296.9	1245.7
50°	2315.7	2213.3	2064.9	1904.5	1754.3	1583.6	1428.3	1310.6	1203.1	1145.1	1105.8
52.5°	2093.9	1998.3	1846.4	1672.4	1527.3	1360.1	1218.4	1122.9	1046.1	1003.4	989.8
55°	1846.4	1762.8	1612.6	1450.5	1302.1	1148.5	1041.0	957.3	907.9	882.3	884.0
57.5°	1581.9	1517.1	1375.4	1230.4	1090.5	974.4	877.1	810.6	773.0	771.3	776.5
60°	1317.4	1269.6	1146.8	1022.2	899.3	805.5	733.8	687.7	663.8	665.5	663.8
62.5°	1064.9	1020.5	931.7	829.4	732.1	668.9	604.1	585.3	564.9	563.1	563.1
65°	837.9	803.8	732.1	658.7	585.3	544.4	511.9	489.8	474.4	471.0	472.7
67.5°	629.7	616.0	566.6	517.1	471.0	445.4	418.1	413.0	401.0	401.0	404.4
70°	469.3	459.0	431.7	402.7	384.0	366.9	353.2	353.2	351.5	349.8	358.4
72.5°	339.6	341.3	332.8	310.6	308.9	305.5	302.1	307.2	308.9	314.0	324.2
75°	238.9	244.0	244.0	240.6	247.4	256.0	261.1	269.6	279.9	286.7	298.6
77.5°	168.9	168.9	177.5	187.7	201.4	216.7	230.4	242.3	256.0	264.5	274.7
80°	109.2	114.3	128.0	146.8	165.5	186.0	204.8	220.1	233.8	247.4	254.3
82.5°	64.8	73.4	90.4	114.3	138.2	163.8	182.6	201.4	216.7	230.4	235.5
85°	32.4	44.4	64.8	90.4	116.0	143.3	167.2	184.3	201.4	213.3	220.1
87.5°	10.2	23.9	46.1	70.0	97.3	124.6	150.2	168.9	184.3	194.5	201.4
90°	0.0	11.9	32.4	58.0	83.6	110.9	134.8	155.3	170.6	179.2	184.3
92.5°	0.0	6.8	25.6	47.8	71.7	99.0	122.9	141.6	155.3	163.8	167.2
95°	1.7	5.1	18.8	39.2	63.1	88.7	110.9	128.0	141.6	150.2	151.9
97.5°	1.7	3.4	15.4	32.4	54.6	78.5	100.7	117.7	128.0	136.5	138.2
100°	1.7	3.4	11.9	29.0	47.8	70.0	90.4	105.8	117.7	124.6	126.3
102.5°	1.7	1.7	10.2	23.9	42.7	61.4	80.2	95.6	105.8	112.6	116.0
105°	1.7	1.7	8.5	20.5	37.5	54.6	71.7	87.0	95.6	102.4	105.8
107.5°	1.7	1.7	6.8	17.1	32.4	47.8	64.8	76.8	87.0	93.9	97.3
110°	1.7	1.7	5.1	15.4	27.3	42.7	56.3	68.3	78.5	85.3	88.7

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.7	1.7	5.1	13.7	23.9	37.5	49.5	61.4	70.0	76.8	81.9
115°	1.7	1.7	5.1	11.9	22.2	32.4	44.4	54.6	63.1	70.0	75.1
117.5°	1.7	1.7	5.1	10.2	18.8	29.0	39.2	49.5	56.3	63.1	68.3
120°	1.7	1.7	3.4	8.5	17.1	25.6	34.1	42.7	51.2	58.0	63.1
122.5°	1.7	1.7	3.4	8.5	13.7	22.2	30.7	37.5	46.1	51.2	56.3
125°	1.7	1.7	3.4	6.8	11.9	20.5	27.3	34.1	39.2	46.1	51.2
127.5°	1.7	1.7	3.4	6.8	10.2	17.1	23.9	30.7	35.8	41.0	44.4
130°	1.7	1.7	3.4	5.1	8.5	13.7	20.5	25.6	32.4	35.8	39.2
132.5°	1.7	1.7	1.7	5.1	6.8	10.2	15.4	22.2	27.3	32.4	34.1
135°	1.7	1.7	1.7	3.4	6.8	8.5	11.9	17.1	22.2	27.3	30.7
137.5°	1.7	1.7	1.7	3.4	5.1	8.5	10.2	13.7	18.8	22.2	27.3
140°	1.7	1.7	1.7	3.4	5.1	6.8	8.5	11.9	15.4	18.8	22.2
142.5°	1.7	1.7	1.7	3.4	3.4	5.1	6.8	10.2	11.9	15.4	18.8
145°	1.7	1.7	1.7	3.4	3.4	5.1	6.8	8.5	10.2	11.9	15.4
147.5°	1.7	1.7	1.7	3.4	3.4	3.4	5.1	6.8	8.5	10.2	11.9
150°	3.4	3.4	3.4	3.4	3.4	3.4	5.1	5.1	6.8	8.5	10.2
152.5°	3.4	3.4	3.4	3.4	3.4	3.4	5.1	5.1	5.1	6.8	8.5
155°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	5.1	5.1	6.8	6.8
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°	3303.8	3303.8	3303.8	3303.8	3303.8	3303.8	3303.8	3303.8	3303.8	3303.8	3303.8
2.5°	3274.8	3278.2	3298.7	3297.0	3293.5	3290.1	3290.1	3286.7	3290.1	3298.7	3295.2
5°	3257.7	3262.8	3278.2	3276.5	3273.1	3271.4	3269.7	3264.5	3267.9	3279.9	3276.5
7.5°	3227.0	3232.1	3245.8	3238.9	3233.8	3237.2	3228.7	3223.6	3230.4	3242.3	3240.6
10°	3194.6	3198.0	3215.0	3211.6	3203.1	3204.8	3196.3	3192.9	3201.4	3208.2	3209.9
12.5°	3172.4	3184.3	3199.7	3198.0	3196.3	3198.0	3189.4	3186.0	3191.2	3198.0	3196.3
15°	3167.3	3182.6	3199.7	3199.7	3201.4	3203.1	3194.6	3189.4	3194.6	3199.7	3198.0
17.5°	3162.1	3180.9	3196.3	3194.6	3196.3	3199.7	3186.0	3182.6	3189.4	3196.3	3192.9
20°	3145.1	3162.1	3172.4	3169.0	3169.0	3170.7	3153.6	3153.6	3163.8	3169.0	3170.7
22.5°	3097.3	3117.8	3117.8	3109.2	3109.2	3102.4	3097.3	3087.1	3099.0	3107.5	3114.4
25°	3025.6	3034.2	3023.9	3005.1	2994.9	2986.4	2962.5	2983.0	2983.0	3008.6	3017.1
27.5°	2924.9	2906.2	2877.2	2837.9	2829.4	2802.1	2786.7	2791.8	2800.4	2836.2	2863.5
30°	2759.4	2703.1	2653.6	2636.5	2599.0	2571.7	2544.4	2558.0	2573.4	2593.9	2650.2
32.5°	2541.0	2486.4	2406.2	2377.2	2337.9	2303.8	2271.4	2291.8	2319.1	2332.8	2394.2
35°	2290.1	2225.3	2151.9	2102.4	2061.5	2042.7	2001.7	2030.7	2059.7	2070.0	2122.9
37.5°	2023.9	1957.4	1892.5	1849.8	1810.6	1798.7	1771.3	1791.8	1814.0	1829.4	1873.7
40°	1771.3	1709.9	1660.4	1631.4	1604.1	1593.9	1583.6	1592.2	1609.2	1621.2	1655.3
42.5°	1554.6	1505.1	1471.0	1453.9	1435.2	1421.5	1423.2	1426.6	1435.2	1460.8	1476.1
45°	1365.2	1336.2	1314.0	1310.6	1298.6	1296.9	1295.2	1302.1	1307.2	1322.5	1334.5
47.5°	1213.3	1201.4	1196.3	1203.1	1208.2	1201.4	1204.8	1213.3	1223.6	1223.6	1221.9
50°	1093.9	1097.3	1104.1	1119.5	1129.7	1133.1	1136.5	1146.8	1148.5	1151.9	1146.8
52.5°	996.6	1000.0	1018.8	1042.7	1054.6	1059.7	1066.6	1076.8	1076.8	1080.2	1073.4
55°	897.6	902.7	921.5	945.4	955.6	962.5	969.3	976.1	981.2	988.1	982.9
57.5°	788.4	803.8	815.7	822.5	829.4	834.5	839.6	841.3	851.5	853.2	861.8
60°	672.4	675.8	687.7	686.0	680.9	694.5	687.7	699.7	711.6	727.0	728.7
62.5°	561.4	563.1	571.7	568.3	575.1	573.4	578.5	578.5	587.0	593.9	602.4
65°	474.4	476.1	482.9	482.9	481.2	486.4	491.5	494.9	494.9	500.0	506.8
67.5°	409.6	414.7	421.5	424.9	428.3	428.3	433.5	435.2	438.6	440.3	443.7
70°	365.2	372.0	378.8	382.3	384.0	387.4	389.1	389.1	392.5	394.2	397.6
72.5°	332.8	339.6	344.7	344.7	348.1	349.8	349.8	351.5	353.2	356.7	360.1
75°	305.5	310.6	314.0	312.3	312.3	312.3	314.0	314.0	317.4	320.8	324.2
77.5°	279.9	285.0	285.0	281.6	281.6	281.6	281.6	283.3	285.0	288.4	291.8
80°	261.1	261.1	259.4	259.4	256.0	254.3	254.3	256.0	256.0	259.4	264.5
82.5°	240.6	240.6	238.9	237.2	235.5	233.8	233.8	235.5	237.2	238.9	242.3
85°	221.8	221.8	218.4	218.4	216.7	216.7	216.7	216.7	218.4	220.1	223.6
87.5°	203.1	201.4	199.7	198.0	198.0	198.0	198.0	198.0	199.7	203.1	204.8
90°	184.3	182.6	180.9	180.9	179.2	179.2	180.9	180.9	182.6	184.3	186.0
92.5°	167.2	165.5	163.8	163.8	162.1	162.1	163.8	162.1	165.5	165.5	167.2
95°	151.9	150.2	148.5	148.5	148.5	148.5	148.5	148.5	150.2	150.2	151.9
97.5°	138.2	136.5	134.8	134.8	136.5	134.8	136.5	136.5	136.5	138.2	139.9
100°	126.3	124.6	124.6	126.3	124.6	124.6	126.3	126.3	126.3	126.3	128.0
102.5°	116.0	116.0	116.0	116.0	116.0	116.0	117.7	117.7	117.7	117.7	119.5
105°	105.8	107.5	107.5	107.5	109.2	109.2	109.2	110.9	110.9	110.9	110.9
107.5°	99.0	100.7	100.7	102.4	102.4	104.1	104.1	104.1	104.1	105.8	105.8
110°	92.2	93.9	95.6	97.3	97.3	99.0	99.0	99.0	99.0	99.0	99.0



TEST NUMBER: P1214242

CATALOG NUMBER: 4SNLED-LD5-85SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	85.3	87.0	88.7	92.2	93.9	93.9	93.9	93.9	95.6	95.6	93.9
115°	78.5	81.9	83.6	87.0	88.7	88.7	90.4	90.4	90.4	90.4	88.7
117.5°	71.7	76.8	78.5	81.9	83.6	83.6	85.3	85.3	85.3	85.3	83.6
120°	66.6	70.0	73.4	75.1	76.8	78.5	78.5	80.2	80.2	80.2	78.5
122.5°	61.4	64.8	68.3	70.0	71.7	73.4	73.4	73.4	73.4	73.4	73.4
125°	54.6	58.0	61.4	63.1	64.8	66.6	66.6	68.3	68.3	68.3	66.6
127.5°	49.5	52.9	54.6	58.0	59.7	59.7	61.4	61.4	61.4	61.4	59.7
130°	42.7	46.1	49.5	51.2	52.9	52.9	54.6	54.6	54.6	54.6	54.6
132.5°	37.5	41.0	42.7	46.1	46.1	47.8	47.8	49.5	49.5	49.5	47.8
135°	34.1	35.8	37.5	41.0	41.0	42.7	42.7	42.7	42.7	42.7	42.7
137.5°	30.7	32.4	34.1	35.8	35.8	37.5	37.5	37.5	37.5	39.2	37.5
140°	25.6	29.0	30.7	30.7	32.4	32.4	32.4	34.1	34.1	34.1	32.4
142.5°	22.2	23.9	25.6	27.3	29.0	29.0	29.0	29.0	30.7	29.0	29.0
145°	17.1	20.5	22.2	23.9	25.6	25.6	25.6	25.6	25.6	25.6	25.6
147.5°	13.7	15.4	18.8	20.5	20.5	22.2	22.2	22.2	22.2	22.2	22.2
150°	11.9	11.9	15.4	17.1	18.8	18.8	18.8	18.8	18.8	18.8	18.8
152.5°	8.5	10.2	11.9	13.7	15.4	15.4	15.4	15.4	15.4	15.4	15.4
155°	8.5	8.5	10.2	10.2	11.9	11.9	11.9	11.9	13.7	11.9	11.9
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: P1214242

CATALOG NUMBER: 4SNLED-LD5-85SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3303.8	3303.8	3303.8	3303.8	3303.8	3303.8	3303.8	3303.8	3303.8	3303.8	3303.8
2.5°	3290.1	3288.4	3295.2	3288.4	3254.3	3267.9	3262.8	3281.6	3283.3	3288.4	3305.5
5°	3273.1	3273.1	3281.6	3274.8	3242.3	3256.0	3254.3	3273.1	3276.5	3279.9	3298.7
7.5°	3238.9	3240.6	3252.6	3247.5	3213.3	3233.8	3232.1	3254.3	3261.1	3267.9	3285.0
10°	3206.5	3204.8	3218.5	3213.3	3180.9	3204.8	3203.1	3225.3	3235.5	3247.5	3267.9
12.5°	3189.4	3184.3	3189.4	3184.3	3148.5	3167.3	3169.0	3194.6	3206.5	3221.9	3245.8
15°	3189.4	3180.9	3180.9	3170.7	3129.7	3141.7	3143.4	3160.4	3175.8	3191.2	3220.2
17.5°	3186.0	3177.5	3175.8	3167.3	3122.9	3122.9	3121.2	3133.1	3141.7	3157.0	3187.7
20°	3167.3	3163.8	3162.1	3157.0	3116.1	3109.2	3105.8	3105.8	3110.9	3116.1	3146.8
22.5°	3117.8	3121.2	3124.6	3128.0	3095.6	3083.6	3085.4	3081.9	3076.8	3076.8	3102.4
25°	3025.6	3042.7	3056.3	3071.7	3052.9	3044.4	3054.6	3049.5	3041.0	3034.2	3056.3
27.5°	2878.9	2914.7	2943.7	2981.3	2983.0	2976.1	3003.4	3000.0	2998.3	2988.1	3005.1
30°	2675.8	2732.1	2771.4	2826.0	2872.0	2878.9	2924.9	2931.8	2938.6	2933.5	2950.5
32.5°	2430.1	2506.8	2573.4	2658.7	2703.1	2742.3	2807.2	2834.5	2861.8	2870.3	2889.1
35°	2162.1	2249.2	2327.7	2421.5	2491.5	2576.8	2655.3	2696.3	2757.7	2781.6	2808.9
37.5°	1907.9	1989.8	2066.6	2160.4	2273.1	2361.8	2459.1	2551.2	2634.8	2669.0	2709.9
40°	1682.6	1749.2	1822.5	1904.5	2006.8	2122.9	2228.7	2356.7	2455.7	2523.9	2583.6
42.5°	1512.0	1544.4	1607.5	1680.9	1762.8	1880.6	1988.1	2131.4	2250.9	2348.1	2447.1
45°	1360.1	1375.4	1421.5	1460.8	1544.4	1648.5	1762.8	1902.7	2027.3	2151.9	2271.4
47.5°	1230.4	1249.2	1271.3	1295.2	1355.0	1442.0	1541.0	1667.2	1791.8	1936.9	2073.4
50°	1143.4	1148.5	1151.9	1162.1	1198.0	1257.7	1337.9	1445.4	1564.9	1720.2	1865.2
52.5°	1066.6	1066.6	1056.3	1051.2	1064.9	1102.4	1148.5	1225.3	1348.1	1491.5	1645.1
55°	984.6	969.3	965.9	948.8	952.2	969.3	991.5	1051.2	1151.9	1274.8	1423.2
57.5°	870.3	863.5	863.5	856.7	843.0	851.5	856.7	899.3	971.0	1076.8	1206.5
60°	738.9	735.5	744.0	745.7	733.8	738.9	737.2	762.8	814.0	899.3	1006.8
62.5°	607.5	622.9	624.6	631.4	624.6	622.9	631.4	653.6	679.2	744.0	827.7
65°	510.2	518.8	520.5	529.0	525.6	525.6	532.4	549.5	564.9	609.2	674.1
67.5°	447.1	443.7	445.4	450.5	445.4	443.7	448.8	459.0	471.0	498.3	544.4
70°	397.6	394.2	394.2	394.2	387.4	382.3	384.0	387.4	392.5	407.9	436.9
72.5°	360.1	360.1	355.0	349.8	344.7	341.3	337.9	334.5	332.8	337.9	353.2
75°	325.9	327.6	325.9	320.8	314.0	307.2	300.3	293.5	285.0	281.6	283.3
77.5°	295.2	296.9	298.6	296.9	290.1	281.6	271.3	261.1	249.1	237.2	230.4
80°	267.9	271.3	273.0	271.3	266.2	259.4	247.4	235.5	218.4	203.1	186.0
82.5°	244.0	249.1	250.9	250.9	247.4	240.6	227.0	213.3	194.5	174.1	151.9
85°	225.3	228.7	232.1	232.1	230.4	223.6	209.9	194.5	175.8	151.9	128.0
87.5°	206.5	208.2	211.6	215.0	211.6	204.8	192.8	175.8	157.0	133.1	105.8
90°	187.7	189.4	192.8	196.2	194.5	187.7	177.5	162.1	141.6	116.0	88.7
92.5°	168.9	172.4	174.1	175.8	177.5	172.4	163.8	148.5	128.0	102.4	76.8
95°	155.3	155.3	158.7	160.4	162.1	157.0	150.2	134.8	116.0	92.2	66.6
97.5°	141.6	141.6	145.1	145.1	146.8	143.3	136.5	122.9	104.1	81.9	56.3
100°	128.0	129.7	131.4	133.1	133.1	131.4	124.6	110.9	93.9	73.4	49.5
102.5°	119.5	119.5	121.2	121.2	122.9	119.5	112.6	100.7	83.6	64.8	42.7
105°	110.9	110.9	112.6	112.6	110.9	107.5	100.7	90.4	75.1	56.3	37.5
107.5°	104.1	104.1	104.1	104.1	102.4	99.0	92.2	80.2	66.6	51.2	34.1
110°	99.0	97.3	97.3	95.6	93.9	88.7	81.9	71.7	59.7	44.4	29.0



TEST NUMBER: P1214242

CATALOG NUMBER: 4SNLED-LD5-85SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	93.9	92.2	90.4	88.7	85.3	80.2	73.4	64.8	52.9	39.2	25.6
115°	88.7	87.0	85.3	81.9	78.5	73.4	66.6	58.0	46.1	34.1	22.2
117.5°	83.6	81.9	78.5	75.1	71.7	66.6	59.7	51.2	41.0	30.7	20.5
120°	76.8	75.1	73.4	70.0	66.6	59.7	52.9	46.1	35.8	27.3	17.1
122.5°	71.7	70.0	66.6	64.8	59.7	54.6	47.8	41.0	32.4	23.9	15.4
125°	64.8	63.1	61.4	58.0	54.6	47.8	42.7	35.8	29.0	20.5	11.9
127.5°	59.7	58.0	54.6	51.2	47.8	42.7	37.5	32.4	25.6	17.1	11.9
130°	52.9	51.2	49.5	46.1	42.7	37.5	34.1	27.3	22.2	15.4	10.2
132.5°	46.1	46.1	44.4	41.0	37.5	34.1	29.0	23.9	18.8	13.7	8.5
135°	42.7	41.0	39.2	35.8	34.1	29.0	25.6	20.5	15.4	11.9	6.8
137.5°	37.5	35.8	34.1	32.4	29.0	25.6	22.2	17.1	13.7	10.2	6.8
140°	32.4	30.7	30.7	27.3	25.6	22.2	18.8	15.4	11.9	8.5	5.1
142.5°	29.0	27.3	25.6	23.9	22.2	18.8	15.4	11.9	10.2	6.8	5.1
145°	25.6	23.9	22.2	20.5	18.8	15.4	13.7	10.2	8.5	6.8	5.1
147.5°	20.5	20.5	18.8	17.1	15.4	13.7	11.9	10.2	6.8	5.1	3.4
150°	17.1	17.1	15.4	13.7	13.7	11.9	10.2	8.5	6.8	5.1	3.4
152.5°	15.4	13.7	13.7	11.9	11.9	10.2	8.5	6.8	5.1	5.1	3.4
155°	11.9	11.9	11.9	10.2	10.2	8.5	6.8	6.8	5.1	3.4	3.4
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: P1214242

CATALOG NUMBER: 4SNLED-LD5-85SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3303.8	3303.8	3303.8	3303.8	3303.8	3303.8	3303.8	3303.8	3303.8	3303.8	3303.8
2.5°	3308.9	3288.4	3305.5	3336.2	3332.8	3329.4	3326.0	3332.8	3355.0	3343.0	3324.3
5°	3303.8	3283.3	3302.1	3331.1	3329.4	3324.3	3320.8	3327.7	3349.9	3337.9	3317.4
7.5°	3293.5	3274.8	3288.4	3317.4	3317.4	3314.0	3310.6	3317.4	3337.9	3327.7	3307.2
10°	3276.5	3262.8	3276.5	3303.8	3305.5	3298.7	3295.2	3303.8	3324.3	3319.1	3302.1
12.5°	3262.8	3249.2	3264.5	3291.8	3293.5	3286.7	3281.6	3291.8	3319.1	3322.6	3317.4
15°	3244.1	3232.1	3250.9	3279.9	3279.9	3274.8	3274.8	3288.4	3326.0	3341.3	3349.9
17.5°	3216.8	3208.2	3230.4	3259.4	3261.1	3257.7	3259.4	3286.7	3336.2	3373.7	3397.6
20°	3182.6	3179.2	3203.1	3233.8	3238.9	3240.6	3249.2	3290.1	3358.4	3409.6	3433.5
22.5°	3141.7	3143.4	3170.7	3203.1	3209.9	3215.0	3232.1	3290.1	3375.5	3430.1	3440.3
25°	3095.6	3100.7	3129.7	3169.0	3177.5	3187.7	3216.8	3291.8	3380.6	3416.4	3399.3
27.5°	3046.1	3056.3	3093.9	3134.8	3145.1	3162.1	3199.7	3281.6	3356.7	3358.4	3295.2
30°	2994.9	3006.9	3051.2	3099.0	3116.1	3133.1	3179.2	3257.7	3298.7	3244.1	3133.1
32.5°	2936.9	2953.9	2998.3	3056.3	3076.8	3099.0	3145.1	3211.6	3196.3	3078.5	2919.8
35°	2863.5	2887.4	2938.6	3006.9	3025.6	3054.6	3087.1	3102.4	3034.2	2866.9	2687.7
37.5°	2773.1	2808.9	2868.6	2947.1	2967.6	2986.4	2994.9	2952.2	2815.7	2634.8	2448.8
40°	2669.0	2723.6	2788.4	2875.5	2895.9	2895.9	2865.2	2774.8	2602.4	2365.2	2158.7
42.5°	2542.7	2609.2	2691.1	2778.2	2798.7	2774.8	2701.4	2542.7	2346.4	2081.9	1863.5
45°	2389.1	2477.8	2570.0	2660.4	2670.7	2617.8	2486.4	2285.0	2042.7	1796.9	1588.8
47.5°	2206.5	2322.5	2423.2	2525.6	2512.0	2423.2	2247.5	2018.8	1762.8	1530.7	1363.5
50°	2001.7	2138.2	2250.9	2348.1	2319.1	2196.3	1989.8	1750.9	1496.6	1298.6	1160.4
52.5°	1783.3	1940.3	2052.9	2131.4	2092.2	1945.4	1718.4	1489.8	1281.6	1100.7	1008.5
55°	1556.3	1715.0	1831.1	1892.5	1841.3	1682.6	1459.1	1250.9	1054.6	936.9	882.3
57.5°	1336.2	1484.7	1593.9	1643.4	1578.5	1419.8	1213.3	1037.6	895.9	796.9	769.6
60°	1124.6	1245.7	1349.8	1387.4	1317.4	1170.7	993.2	853.2	749.2	680.9	667.2
62.5°	928.3	1027.3	1109.2	1138.2	1070.0	955.6	802.1	698.0	624.6	590.4	573.4
65°	766.2	824.2	907.9	902.7	861.8	756.0	643.4	570.0	522.2	500.0	489.8
67.5°	602.4	655.3	708.2	715.0	663.8	590.4	517.1	464.2	438.6	426.6	421.5
70°	465.9	505.1	537.5	529.0	501.7	455.6	409.6	380.5	370.3	365.2	365.2
72.5°	361.8	382.3	397.6	387.4	370.3	346.4	324.2	312.3	314.0	317.4	320.8
75°	279.9	285.0	288.4	278.2	274.7	259.4	257.7	259.4	269.6	279.9	285.0
77.5°	215.0	208.2	203.1	192.8	194.5	192.8	201.4	215.0	230.4	245.7	259.4
80°	165.5	150.2	138.2	128.0	133.1	141.6	158.7	179.2	199.7	216.7	233.8
82.5°	128.0	105.8	88.7	78.5	88.7	102.4	124.6	150.2	174.1	192.8	211.6
85°	99.0	73.4	52.9	42.7	52.9	73.4	97.3	126.3	151.9	172.4	191.1
87.5°	76.8	52.9	29.0	17.1	29.0	51.2	78.5	105.8	131.4	155.3	174.1
90°	61.4	35.8	13.7	3.4	15.4	35.8	61.4	88.7	114.3	139.9	158.7
92.5°	49.5	25.6	6.8	0.0	8.5	27.3	51.2	76.8	102.4	126.3	145.1
95°	41.0	20.5	5.1	0.0	6.8	20.5	41.0	66.6	90.4	114.3	129.7
97.5°	34.1	15.4	3.4	0.0	3.4	17.1	34.1	56.3	80.2	102.4	117.7
100°	29.0	13.7	3.4	0.0	3.4	13.7	29.0	49.5	70.0	90.4	105.8
102.5°	23.9	10.2	1.7	1.7	1.7	10.2	25.6	42.7	61.4	80.2	95.6
105°	22.2	8.5	1.7	1.7	1.7	8.5	22.2	37.5	54.6	71.7	85.3
107.5°	18.8	6.8	1.7	1.7	1.7	6.8	18.8	32.4	49.5	64.8	76.8
110°	15.4	6.8	1.7	1.7	1.7	6.8	15.4	29.0	42.7	56.3	68.3

TEST NUMBER: P1214242

CATALOG NUMBER: 4SNLED-LD5-85SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	13.7	5.1	1.7	1.7	1.7	5.1	13.7	25.6	37.5	51.2	61.4
115°	11.9	5.1	1.7	1.7	1.7	5.1	11.9	22.2	32.4	44.4	54.6
117.5°	10.2	5.1	1.7	1.7	1.7	3.4	10.2	18.8	29.0	39.2	49.5
120°	8.5	3.4	1.7	1.7	1.7	3.4	8.5	17.1	25.6	34.1	42.7
122.5°	8.5	3.4	1.7	1.7	1.7	3.4	6.8	13.7	22.2	29.0	37.5
125°	6.8	3.4	1.7	1.7	1.7	1.7	6.8	11.9	18.8	25.6	32.4
127.5°	6.8	3.4	1.7	1.7	1.7	1.7	5.1	10.2	15.4	22.2	29.0
130°	5.1	3.4	1.7	1.7	1.7	1.7	3.4	8.5	13.7	18.8	23.9
132.5°	5.1	3.4	1.7	1.7	1.7	1.7	3.4	6.8	10.2	15.4	20.5
135°	5.1	1.7	1.7	1.7	1.7	1.7	1.7	5.1	8.5	11.9	15.4
137.5°	3.4	1.7	1.7	1.7	1.7	1.7	1.7	3.4	6.8	8.5	13.7
140°	3.4	1.7	1.7	1.7	1.7	1.7	1.7	3.4	5.1	6.8	10.2
142.5°	3.4	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.4	5.1	8.5
145°	3.4	1.7	1.7	3.4	3.4	1.7	1.7	3.4	3.4	5.1	6.8
147.5°	3.4	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.4	3.4	5.1
150°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	5.1
152.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
155°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
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: P1214242

CATALOG NUMBER: 4SNLED-LD5-85SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3303.8	3303.8	3303.8	3303.8	3303.8	3303.8	3303.8	3303.8	3303.8	3303.8	3303.8
2.5°	3320.8	3281.6	3302.1	3295.2	3302.1	3319.1	3317.4	3312.3	3315.7	3307.2	3298.7
5°	3314.0	3274.8	3295.2	3286.7	3295.2	3312.3	3308.9	3303.8	3308.9	3298.7	3290.1
7.5°	3305.5	3269.7	3293.5	3291.8	3307.2	3329.4	3331.1	3331.1	3343.0	3327.7	3320.8
10°	3305.5	3286.7	3319.1	3331.1	3370.3	3399.3	3402.8	3409.6	3430.1	3426.7	3409.6
12.5°	3341.3	3337.9	3385.7	3414.7	3450.5	3491.5	3513.7	3520.5	3534.2	3523.9	3517.1
15°	3387.4	3404.5	3457.4	3489.8	3529.0	3559.8	3564.9	3568.3	3578.5	3563.2	3551.2
17.5°	3448.8	3459.1	3501.7	3515.4	3541.0	3546.1	3539.3	3522.2	3522.2	3488.1	3477.8
20°	3477.8	3472.7	3489.8	3467.6	3457.4	3426.7	3397.6	3365.2	3363.5	3327.7	3324.3
22.5°	3452.2	3418.1	3382.3	3327.7	3303.8	3259.4	3220.2	3201.4	3189.4	3143.4	3131.4
25°	3361.8	3278.2	3225.3	3160.4	3102.4	3051.2	3013.7	2974.4	2936.9	2899.3	2882.3
27.5°	3204.8	3126.3	3041.0	2950.5	2870.3	2791.8	2728.7	2689.4	2653.6	2604.1	2578.5
30°	3012.0	2902.8	2808.9	2721.9	2590.5	2494.9	2442.0	2363.5	2336.2	2314.0	2266.2
32.5°	2785.0	2653.6	2525.6	2407.9	2273.1	2184.3	2114.4	2056.3	2039.3	1981.2	1967.6
35°	2534.2	2361.8	2216.7	2100.7	2003.4	1895.9	1837.9	1798.7	1764.5	1725.3	1718.4
37.5°	2238.9	2083.6	1919.8	1817.4	1740.6	1648.5	1604.1	1576.8	1561.4	1532.4	1527.3
40°	1942.0	1786.7	1674.1	1571.7	1523.9	1474.4	1442.0	1430.0	1423.2	1413.0	1402.7
42.5°	1672.4	1535.8	1455.6	1387.4	1366.9	1343.0	1334.5	1341.3	1334.5	1331.1	1329.4
45°	1443.7	1339.6	1283.3	1262.8	1257.7	1250.9	1257.7	1269.6	1271.3	1267.9	1267.9
47.5°	1235.5	1186.0	1162.1	1165.5	1174.1	1179.2	1191.1	1206.5	1209.9	1201.4	1204.8
50°	1099.0	1070.0	1064.9	1078.5	1097.3	1104.1	1117.8	1129.7	1128.0	1124.6	1121.2
52.5°	971.0	962.5	976.1	989.8	1010.2	1013.7	1018.8	1023.9	1022.2	1015.4	1012.0
55°	863.5	870.3	882.3	887.4	902.7	901.0	902.7	902.7	895.9	892.5	887.4
57.5°	766.2	767.9	774.8	776.5	785.0	781.6	779.9	776.5	766.2	764.5	759.4
60°	667.2	663.8	679.2	667.2	674.1	667.2	665.5	657.0	646.8	645.1	641.6
62.5°	573.4	566.6	576.8	571.7	575.1	568.3	564.9	554.6	546.1	544.4	542.7
65°	489.8	486.4	496.6	494.9	498.3	489.8	486.4	479.5	472.7	471.0	469.3
67.5°	419.8	428.3	433.5	433.5	436.9	435.2	426.6	424.9	423.2	416.4	416.4
70°	368.6	373.7	384.0	385.7	384.0	387.4	380.5	378.8	377.1	373.7	372.0
72.5°	327.6	334.5	344.7	346.4	344.7	344.7	341.3	339.6	339.6	334.5	334.5
75°	295.2	303.8	312.3	312.3	312.3	308.9	305.5	305.5	302.1	300.3	296.9
77.5°	267.9	278.2	285.0	283.3	281.6	278.2	278.2	273.0	267.9	267.9	264.5
80°	247.4	254.3	259.4	257.7	256.0	250.9	249.1	244.0	240.6	235.5	235.5
82.5°	225.3	233.8	237.2	235.5	232.1	227.0	225.3	221.8	218.4	216.7	213.3
85°	206.5	215.0	216.7	213.3	209.9	206.5	204.8	203.1	201.4	198.0	198.0
87.5°	187.7	196.2	196.2	194.5	191.1	189.4	187.7	186.0	184.3	182.6	180.9
90°	172.4	179.2	179.2	177.5	175.8	174.1	172.4	170.6	168.9	167.2	167.2
92.5°	157.0	163.8	163.8	162.1	160.4	158.7	158.7	157.0	155.3	153.6	151.9
95°	143.3	150.2	150.2	150.2	148.5	146.8	146.8	145.1	143.3	143.3	141.6
97.5°	129.7	136.5	136.5	136.5	134.8	133.1	133.1	131.4	131.4	131.4	129.7
100°	117.7	122.9	124.6	124.6	122.9	122.9	122.9	121.2	121.2	121.2	119.5
102.5°	105.8	110.9	114.3	114.3	114.3	112.6	112.6	112.6	112.6	112.6	110.9
105°	95.6	100.7	104.1	105.8	105.8	105.8	105.8	105.8	105.8	105.8	105.8
107.5°	87.0	92.2	95.6	97.3	99.0	99.0	100.7	100.7	100.7	100.7	100.7
110°	78.5	83.6	88.7	90.4	92.2	93.9	93.9	95.6	93.9	93.9	93.9

TEST NUMBER: P1214242

CATALOG NUMBER: 4SNLED-LD5-85SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	70.0	76.8	80.2	83.6	85.3	87.0	88.7	88.7	88.7	88.7	88.7
115°	63.1	70.0	73.4	76.8	80.2	81.9	81.9	83.6	83.6	83.6	81.9
117.5°	56.3	63.1	66.6	70.0	71.7	75.1	76.8	76.8	76.8	76.8	75.1
120°	51.2	56.3	59.7	63.1	66.6	68.3	70.0	70.0	70.0	70.0	70.0
122.5°	44.4	49.5	54.6	58.0	59.7	61.4	63.1	63.1	63.1	63.1	63.1
125°	39.2	44.4	47.8	51.2	52.9	56.3	56.3	56.3	56.3	56.3	56.3
127.5°	34.1	39.2	42.7	46.1	47.8	49.5	51.2	51.2	51.2	51.2	51.2
130°	29.0	34.1	37.5	41.0	42.7	44.4	44.4	46.1	46.1	46.1	46.1
132.5°	25.6	29.0	32.4	35.8	37.5	39.2	39.2	41.0	41.0	41.0	41.0
135°	20.5	25.6	27.3	30.7	32.4	34.1	34.1	35.8	35.8	35.8	35.8
137.5°	17.1	20.5	23.9	27.3	29.0	29.0	30.7	30.7	32.4	32.4	32.4
140°	13.7	15.4	20.5	22.2	23.9	25.6	27.3	27.3	27.3	27.3	27.3
142.5°	10.2	13.7	15.4	18.8	20.5	22.2	23.9	23.9	23.9	23.9	23.9
145°	8.5	10.2	11.9	15.4	17.1	18.8	20.5	20.5	20.5	20.5	20.5
147.5°	6.8	8.5	10.2	11.9	13.7	15.4	17.1	17.1	17.1	17.1	17.1
150°	5.1	6.8	8.5	8.5	10.2	11.9	13.7	15.4	15.4	15.4	15.4
152.5°	5.1	5.1	6.8	6.8	8.5	10.2	11.9	11.9	11.9	11.9	11.9
155°	3.4	5.1	5.1	5.1	6.8	6.8	8.5	10.2	10.2	10.2	10.2
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: P1214242

CATALOG NUMBER: 4SNLED-LD5-85SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3303.8	3303.8	3303.8	3303.8	3303.8	3303.8	3303.8	3303.8	3303.8	3303.8	3303.8
2.5°	3303.8	3310.6	3307.2	3302.1	3300.4	3308.9	3300.4	3261.1	3276.5	3278.2	3290.1
5°	3298.7	3303.8	3300.4	3297.0	3291.8	3302.1	3291.8	3250.9	3266.2	3267.9	3279.9
7.5°	3332.8	3334.5	3334.5	3326.0	3312.3	3317.4	3303.8	3257.7	3266.2	3266.2	3274.8
10°	3418.1	3421.5	3426.7	3404.5	3387.4	3373.7	3355.0	3298.7	3297.0	3283.3	3283.3
12.5°	3529.0	3520.5	3512.0	3501.7	3488.1	3471.0	3443.7	3377.2	3355.0	3332.8	3310.6
15°	3561.5	3558.1	3556.3	3551.2	3542.7	3537.6	3517.1	3450.5	3418.1	3390.8	3351.6
17.5°	3476.1	3483.0	3505.1	3506.9	3517.1	3537.6	3534.2	3488.1	3459.1	3447.1	3399.3
20°	3322.6	3324.3	3351.6	3363.5	3407.9	3442.0	3467.6	3462.5	3455.7	3469.3	3433.5
22.5°	3138.3	3150.2	3179.2	3198.0	3240.6	3279.9	3320.8	3343.0	3378.9	3435.2	3428.4
25°	2887.4	2902.8	2943.7	2974.4	3034.2	3093.9	3148.5	3187.7	3230.4	3337.9	3373.7
27.5°	2587.1	2610.9	2663.8	2694.6	2778.2	2839.6	2918.1	2994.9	3054.6	3177.5	3250.9
30°	2271.4	2291.8	2348.1	2390.8	2462.5	2546.1	2645.1	2754.3	2853.3	2977.8	3070.0
32.5°	1976.1	1998.3	2044.4	2081.9	2162.1	2232.1	2341.3	2476.1	2568.3	2740.6	2863.5
35°	1718.4	1738.9	1771.3	1803.8	1870.3	1942.0	2035.9	2167.3	2285.0	2464.2	2619.5
37.5°	1537.6	1541.0	1559.7	1578.5	1628.0	1682.6	1756.0	1872.0	1981.2	2174.1	2344.7
40°	1407.9	1407.9	1418.1	1423.2	1445.4	1477.8	1523.9	1614.3	1704.8	1851.6	2059.7
42.5°	1327.7	1324.2	1324.2	1325.9	1324.2	1339.6	1366.9	1409.6	1489.8	1610.9	1773.1
45°	1267.9	1261.1	1256.0	1244.0	1237.2	1237.2	1238.9	1254.3	1300.4	1378.9	1510.3
47.5°	1201.4	1199.7	1191.1	1177.5	1165.5	1157.0	1143.4	1138.2	1151.9	1196.3	1285.0
50°	1124.6	1116.1	1107.5	1097.3	1083.6	1075.1	1049.5	1051.2	1039.3	1059.7	1105.8
52.5°	1012.0	1005.1	1001.7	993.2	988.1	984.6	964.2	943.7	938.6	942.0	959.1
55°	887.4	890.8	877.1	884.0	882.3	866.9	858.4	843.0	837.9	836.2	844.7
57.5°	757.7	761.1	752.6	759.4	759.4	750.9	745.7	745.7	733.8	723.6	735.5
60°	639.9	633.1	638.2	646.8	646.8	641.6	638.2	638.2	629.7	626.3	634.8
62.5°	544.4	537.5	542.7	551.2	552.9	549.5	546.1	546.1	535.8	535.8	542.7
65°	471.0	472.7	471.0	477.8	477.8	479.5	476.1	472.7	460.8	465.9	464.2
67.5°	418.1	416.4	416.4	423.2	421.5	424.9	421.5	416.4	407.9	401.0	399.3
70°	373.7	372.0	372.0	375.4	377.1	377.1	375.4	372.0	360.1	353.2	348.1
72.5°	334.5	332.8	334.5	336.2	337.9	339.6	337.9	334.5	324.2	315.7	307.2
75°	298.6	296.9	302.1	302.1	303.8	303.8	305.5	303.8	295.2	285.0	274.7
77.5°	262.8	264.5	269.6	271.3	274.7	276.5	278.2	278.2	269.6	261.1	247.4
80°	233.8	237.2	240.6	242.3	245.7	250.9	252.6	254.3	247.4	238.9	223.6
82.5°	213.3	215.0	218.4	220.1	225.3	227.0	228.7	232.1	228.7	220.1	203.1
85°	196.2	198.0	201.4	201.4	204.8	208.2	209.9	211.6	209.9	201.4	184.3
87.5°	180.9	182.6	184.3	186.0	187.7	189.4	191.1	192.8	191.1	182.6	167.2
90°	167.2	167.2	168.9	168.9	170.6	172.4	175.8	175.8	174.1	167.2	151.9
92.5°	151.9	153.6	153.6	155.3	157.0	158.7	160.4	160.4	158.7	151.9	138.2
95°	141.6	141.6	143.3	143.3	145.1	145.1	146.8	146.8	145.1	138.2	124.6
97.5°	129.7	129.7	129.7	129.7	131.4	131.4	133.1	133.1	131.4	124.6	112.6
100°	119.5	119.5	119.5	119.5	119.5	121.2	121.2	121.2	119.5	112.6	100.7
102.5°	110.9	110.9	110.9	110.9	110.9	110.9	110.9	110.9	107.5	102.4	90.4
105°	105.8	105.8	105.8	104.1	104.1	104.1	102.4	102.4	97.3	92.2	81.9
107.5°	99.0	99.0	99.0	97.3	97.3	95.6	93.9	93.9	88.7	83.6	73.4
110°	93.9	93.9	93.9	92.2	90.4	88.7	87.0	85.3	80.2	73.4	64.8

TEST NUMBER: P1214242

CATALOG NUMBER: 4SNLED-LD5-85SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	88.7	88.7	87.0	87.0	85.3	83.6	80.2	78.5	73.4	66.6	58.0
115°	81.9	81.9	81.9	80.2	78.5	76.8	75.1	71.7	66.6	59.7	51.2
117.5°	75.1	75.1	75.1	73.4	71.7	70.0	68.3	64.8	59.7	52.9	46.1
120°	68.3	68.3	68.3	66.6	64.8	63.1	61.4	58.0	52.9	47.8	39.2
122.5°	63.1	63.1	61.4	59.7	58.0	56.3	54.6	51.2	47.8	41.0	34.1
125°	56.3	56.3	54.6	54.6	52.9	51.2	49.5	46.1	41.0	35.8	30.7
127.5°	51.2	49.5	49.5	49.5	47.8	46.1	42.7	41.0	35.8	30.7	25.6
130°	44.4	44.4	44.4	42.7	42.7	41.0	37.5	34.1	30.7	27.3	22.2
132.5°	39.2	39.2	39.2	39.2	37.5	35.8	32.4	30.7	27.3	22.2	18.8
135°	35.8	35.8	34.1	34.1	32.4	30.7	29.0	25.6	22.2	18.8	15.4
137.5°	30.7	30.7	30.7	29.0	29.0	27.3	23.9	22.2	20.5	17.1	13.7
140°	27.3	27.3	25.6	25.6	23.9	23.9	22.2	18.8	17.1	13.7	11.9
142.5°	23.9	23.9	22.2	22.2	20.5	20.5	18.8	17.1	13.7	11.9	8.5
145°	20.5	20.5	18.8	18.8	18.8	17.1	15.4	13.7	11.9	10.2	8.5
147.5°	17.1	17.1	17.1	15.4	15.4	13.7	13.7	11.9	10.2	8.5	6.8
150°	15.4	15.4	13.7	13.7	13.7	11.9	10.2	10.2	8.5	6.8	5.1
152.5°	11.9	11.9	11.9	11.9	10.2	10.2	8.5	8.5	6.8	5.1	5.1
155°	10.2	10.2	10.2	8.5	8.5	8.5	6.8	6.8	5.1	5.1	3.4
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: P1214242

CATALOG NUMBER: 4SNLED-LD5-85SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3303.8	3303.8	3303.8	3303.8	3303.8	3303.8	3303.8
2.5°	3285.0	3283.3	3298.7	3297.0	3276.5	3307.2	3327.7
5°	3276.5	3274.8	3288.4	3291.8	3269.7	3302.1	3324.3
7.5°	3269.7	3267.9	3283.3	3288.4	3266.2	3295.2	3319.1
10°	3271.4	3262.8	3276.5	3279.9	3259.4	3290.1	3310.6
12.5°	3283.3	3262.8	3267.9	3267.9	3249.2	3276.5	3298.7
15°	3312.3	3269.7	3262.8	3257.7	3233.8	3259.4	3281.6
17.5°	3344.7	3286.7	3262.8	3245.8	3216.8	3238.9	3262.8
20°	3377.2	3305.5	3266.2	3238.9	3199.7	3220.2	3237.2
22.5°	3392.5	3322.6	3269.7	3228.7	3179.2	3189.4	3208.2
25°	3372.0	3315.7	3262.8	3213.3	3153.6	3155.3	3170.7
27.5°	3297.0	3281.6	3247.5	3198.0	3133.1	3124.6	3136.5
30°	3169.0	3211.6	3213.3	3177.5	3109.2	3092.2	3097.3
32.5°	2989.8	3085.4	3141.7	3134.8	3075.1	3051.2	3054.6
35°	2783.3	2902.8	3025.6	3066.6	3023.9	3005.1	2998.3
37.5°	2535.9	2696.3	2860.1	2960.8	2953.9	2942.0	2935.2
40°	2262.8	2455.7	2650.2	2810.6	2860.1	2860.1	2863.5
42.5°	1971.0	2196.3	2409.6	2612.7	2728.7	2754.3	2764.5
45°	1689.4	1916.4	2148.5	2382.3	2537.6	2617.8	2646.8
47.5°	1433.5	1662.1	1882.3	2138.2	2344.7	2448.8	2494.9
50°	1215.0	1385.7	1617.8	1872.0	2097.3	2225.3	2315.7
52.5°	1034.1	1167.2	1370.3	1607.5	1834.5	2010.3	2093.9
55°	882.3	972.7	1145.1	1349.8	1566.6	1749.2	1846.4
57.5°	754.3	825.9	943.7	1114.3	1296.9	1477.8	1581.9
60°	641.6	691.1	771.3	906.2	1061.4	1216.7	1317.4
62.5°	544.4	576.8	629.7	728.7	849.8	971.0	1064.9
65°	469.3	482.9	511.9	573.4	665.5	757.7	837.9
67.5°	395.9	404.4	426.6	464.2	510.2	576.8	629.7
70°	341.3	341.3	343.0	365.2	389.1	431.7	469.3
72.5°	296.9	291.8	281.6	286.7	291.8	315.7	339.6
75°	261.1	249.1	232.1	225.3	221.8	225.3	238.9
77.5°	230.4	213.3	192.8	175.8	162.1	157.0	168.9
80°	204.8	184.3	160.4	138.2	116.0	104.1	109.2
82.5°	184.3	158.7	133.1	107.5	81.9	64.8	64.8
85°	162.1	138.2	110.9	83.6	58.0	35.8	32.4
87.5°	146.8	121.2	92.2	66.6	41.0	18.8	10.2
90°	131.4	105.8	78.5	52.9	29.0	8.5	0.0
92.5°	117.7	93.9	68.3	42.7	20.5	5.1	0.0
95°	105.8	83.6	58.0	35.8	17.1	3.4	1.7
97.5°	93.9	73.4	51.2	29.0	11.9	3.4	1.7
100°	85.3	64.8	44.4	23.9	10.2	1.7	1.7
102.5°	75.1	58.0	37.5	20.5	8.5	1.7	1.7
105°	66.6	51.2	32.4	17.1	6.8	1.7	1.7
107.5°	59.7	44.4	29.0	15.4	6.8	1.7	1.7
110°	52.9	39.2	25.6	13.7	5.1	1.7	1.7

TEST NUMBER: P1214242

CATALOG NUMBER: 4SNLED-LD5-85SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	47.8	34.1	22.2	11.9	3.4	1.7	1.7
115°	41.0	30.7	18.8	10.2	3.4	1.7	1.7
117.5°	35.8	25.6	17.1	8.5	3.4	1.7	1.7
120°	30.7	22.2	13.7	6.8	1.7	1.7	1.7
122.5°	27.3	18.8	11.9	6.8	1.7	1.7	1.7
125°	23.9	17.1	10.2	5.1	1.7	1.7	1.7
127.5°	20.5	13.7	8.5	3.4	1.7	1.7	1.7
130°	17.1	11.9	6.8	3.4	1.7	1.7	1.7
132.5°	13.7	10.2	6.8	3.4	1.7	1.7	1.7
135°	11.9	8.5	5.1	3.4	1.7	1.7	1.7
137.5°	10.2	6.8	3.4	3.4	3.4	1.7	1.7
140°	8.5	5.1	3.4	3.4	3.4	3.4	1.7
142.5°	6.8	5.1	3.4	3.4	3.4	3.4	1.7
145°	5.1	3.4	3.4	3.4	3.4	3.4	1.7
147.5°	5.1	3.4	3.4	3.4	3.4	3.4	1.7
150°	3.4	3.4	3.4	3.4	3.4	3.4	3.4
152.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4
155°	3.4	3.4	3.4	3.4	3.4	3.4	3.4
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)