

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: P1213546

Luminaire Tested: 4SNLED-LD5-92HL-LC-UNV-L935-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213546
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-LD5-92HL-LC-UNV-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR LENSED
Light Source: -
Ballast/Driver: -

Summary

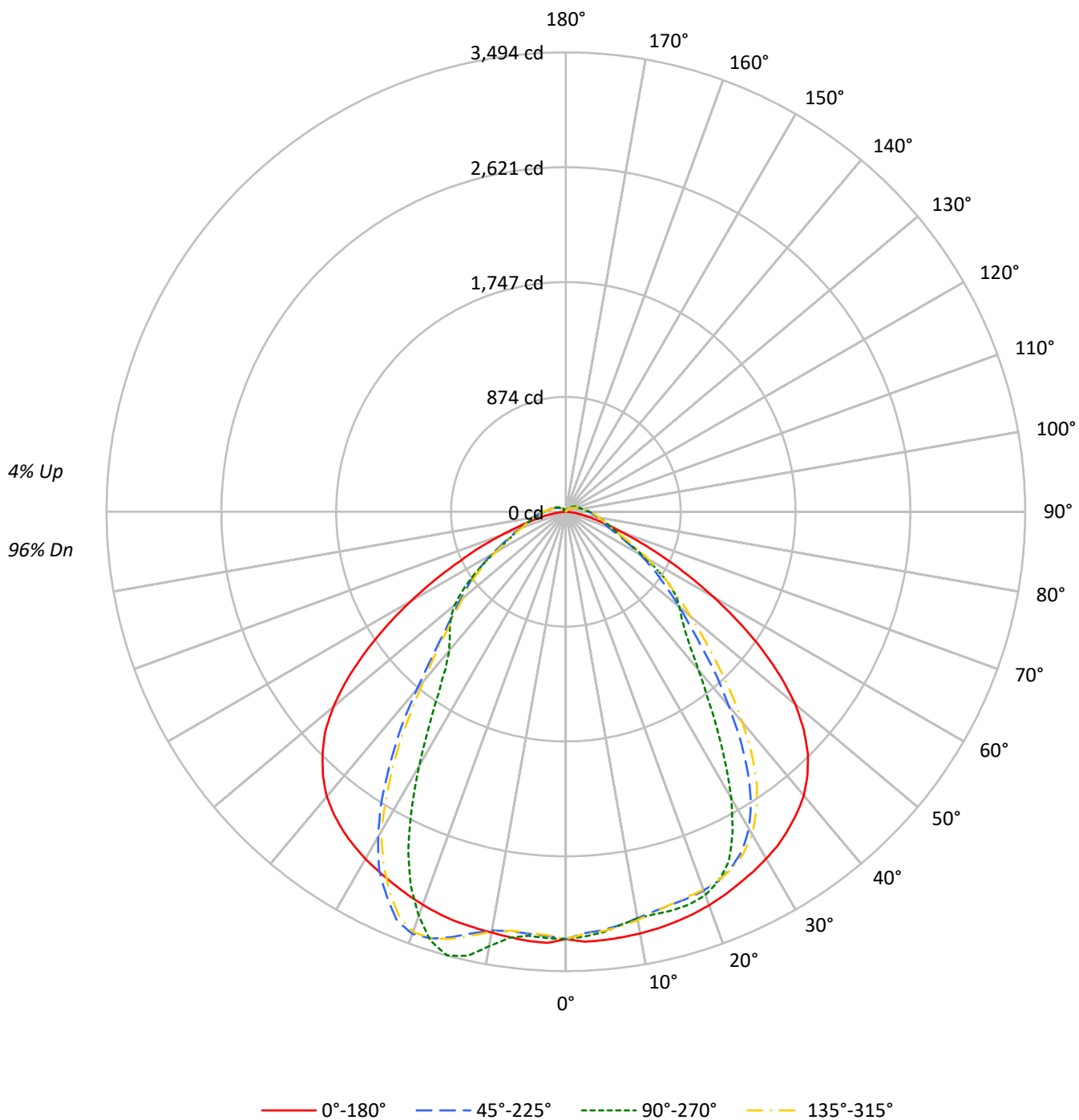
Lumens per Lamp: N/A
Luminaire Lumens: 7748.0 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 79
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



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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
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°	26264	26264	26264	26264
5°	26455	25223	26509	25421
10°	26578	24174	26523	25815
15°	26784	23851	26770	26556
20°	27078	23473	27050	24742
25°	27412	22268	27398	21516
30°	27928	19299	27943	17097
35°	28475	15606	28556	13206
40°	28957	12565	29078	11070
45°	28855	10643	29004	10364
50°	27612	9799	27998	9580
55°	24498	8808	25110	8007
60°	19870	6741	20925	6182
65°	14772	5157	15915	4891
70°	10046	4453	11323	4257
75°	6571	4017	7650	3799
80°	4246	3745	4977	3446
85°	2179	3736	2869	3412

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 180°

Vertical Angle: 45°

Luminance: 29004 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.7	4.0
10°-20°	918.6	11.9
20°-30°	1396.5	18.0
30°-40°	1498.1	19.3
40°-50°	1300.2	16.8
50°-60°	963.5	12.4
60°-70°	552.1	7.1
70°-80°	305.7	3.9
80°-90°	186.2	2.4
90°-100°	121.1	1.6
100°-110°	81.1	1.0
110°-120°	54.8	0.7
120°-130°	33.6	0.4
130°-140°	17.7	0.2
140°-150°	8.1	0.1
150°-160°	2.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2623.7	33.9
0°-40°	4121.8	53.2
0°-60°	6385.5	82.4
0°-90°	7429.4	95.9
90°-120°	256.9	3.3
90°-150°	316.2	4.1
90°-180°	319.0	4.1
0°-180°	7748.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3250	3250	3250	3250	3250	
5°	3270	3212	3277	3237	3270	312
15°	3228	3138	3227	3494	3228	913
25°	3119	2934	3118	2835	3119	1442
35°	2950	1998	2958	1690	2950	1846
45°	2604	1281	2617	1247	2604	1993
55°	1816	960	1862	873	1816	1611
65°	824	487	888	462	824	831
75°	235	309	274	292	235	268
85°	32	213	42	195	32	42
90°	0	178	3	164	0	1
95°	2	146	0	139	2	1
105°	2	109	2	104	2	2
115°	2	89	2	81	2	2
125°	2	67	2	55	2	2
135°	2	42	2	35	2	1
145°	2	25	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°	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1
2.5°	3273.6	3265.2	3261.8	3255.1	3260.2	3280.3	3266.9	3245.1	3246.7	3208.1	3228.3
5°	3270.2	3260.2	3255.1	3248.4	3251.8	3270.2	3256.8	3235.0	3233.3	3194.7	3213.2
7.5°	3265.2	3255.1	3246.7	3241.7	3243.4	3258.5	3241.7	3216.5	3211.5	3169.5	3186.3
10°	3256.8	3250.1	3238.3	3229.9	3228.3	3245.1	3218.2	3193.0	3181.3	3137.6	3154.4
12.5°	3245.1	3235.0	3223.2	3208.1	3206.4	3216.5	3194.7	3159.4	3147.7	3112.4	3130.9
15°	3228.3	3216.5	3203.1	3186.3	3177.9	3184.6	3157.8	3125.9	3124.2	3094.0	3119.1
17.5°	3209.8	3193.0	3177.9	3154.4	3142.6	3147.7	3125.9	3097.3	3100.7	3082.2	3110.8
20°	3184.6	3166.2	3142.6	3119.1	3102.4	3110.8	3095.6	3073.8	3078.9	3065.4	3090.6
22.5°	3156.1	3130.9	3102.4	3075.5	3062.1	3073.8	3062.1	3043.6	3045.3	3036.9	3052.0
25°	3119.1	3090.6	3057.0	3023.5	3016.7	3025.1	3018.4	3003.3	2996.6	2983.2	2989.9
27.5°	3085.6	3053.7	3011.7	2976.5	2964.7	2981.5	2966.4	2941.2	2922.7	2904.3	2890.8
30°	3047.0	3008.3	2961.3	2921.1	2911.0	2917.7	2895.9	2857.3	2808.6	2785.1	2748.1
32.5°	3005.0	2954.6	2895.9	2850.5	2843.8	2838.8	2798.5	2743.1	2667.6	2620.6	2563.5
35°	2949.6	2894.2	2823.7	2768.3	2758.2	2729.7	2664.2	2590.3	2493.0	2412.4	2315.0
37.5°	2887.5	2822.0	2748.1	2674.3	2645.7	2588.7	2496.3	2419.1	2271.4	2174.0	2056.5
40°	2817.0	2738.1	2647.4	2558.4	2511.4	2419.1	2313.3	2199.2	2056.5	1925.5	1826.5
42.5°	2719.6	2635.7	2528.2	2429.2	2348.6	2226.0	2101.8	1940.7	1809.7	1698.9	1598.2
45°	2603.8	2503.0	2378.8	2259.6	2157.2	2011.2	1865.1	1703.9	1594.8	1465.6	1396.7
47.5°	2454.4	2345.2	2212.6	2080.0	1945.7	1784.5	1631.8	1477.3	1368.2	1275.9	1225.5
50°	2278.1	2177.4	2031.3	1873.5	1725.8	1557.9	1405.1	1289.3	1183.5	1126.5	1087.8
52.5°	2059.8	1965.8	1816.4	1645.2	1502.5	1338.0	1198.6	1104.6	1029.1	987.1	973.7
55°	1816.4	1734.2	1586.4	1427.0	1280.9	1129.8	1024.0	941.8	893.1	867.9	869.6
57.5°	1556.2	1492.4	1353.1	1210.4	1072.7	958.6	862.9	797.4	760.5	758.8	763.8
60°	1296.0	1249.0	1128.1	1005.6	884.7	792.4	721.9	676.5	653.0	654.7	653.0
62.5°	1047.5	1003.9	916.6	815.9	720.2	658.1	594.3	575.8	555.7	554.0	554.0
65°	824.3	790.7	720.2	648.0	575.8	535.5	503.6	481.8	466.7	463.3	465.0
67.5°	619.5	606.0	557.4	508.7	463.3	438.2	411.3	406.3	394.5	394.5	397.9
70°	461.7	451.6	424.7	396.2	377.7	360.9	347.5	347.5	345.8	344.1	352.5
72.5°	334.1	335.8	327.4	305.5	303.9	300.5	297.1	302.2	303.9	308.9	319.0
75°	235.0	240.1	240.1	236.7	243.4	251.8	256.9	265.2	275.3	282.0	293.8
77.5°	166.2	166.2	174.6	184.7	198.1	213.2	226.6	238.4	251.8	260.2	270.3
80°	107.4	112.5	125.9	144.4	162.8	183.0	201.5	216.6	230.0	243.4	250.1
82.5°	63.8	72.2	89.0	112.5	136.0	161.2	179.6	198.1	213.2	226.6	231.7
85°	31.9	43.6	63.8	89.0	114.2	141.0	164.5	181.3	198.1	209.8	216.6
87.5°	10.1	23.5	45.3	68.8	95.7	122.5	147.7	166.2	181.3	191.4	198.1
90°	0.0	11.8	31.9	57.1	82.3	109.1	132.6	152.8	167.9	176.3	181.3
92.5°	0.0	6.7	25.2	47.0	70.5	97.4	120.9	139.3	152.8	161.2	164.5
95°	1.7	5.0	18.5	38.6	62.1	87.3	109.1	125.9	139.3	147.7	149.4
97.5°	1.7	3.4	15.1	31.9	53.7	77.2	99.0	115.8	125.9	134.3	136.0
100°	1.7	3.4	11.8	28.5	47.0	68.8	89.0	104.1	115.8	122.5	124.2
102.5°	1.7	1.7	10.1	23.5	42.0	60.4	78.9	94.0	104.1	110.8	114.2
105°	1.7	1.7	8.4	20.1	36.9	53.7	70.5	85.6	94.0	100.7	104.1
107.5°	1.7	1.7	6.7	16.8	31.9	47.0	63.8	75.5	85.6	92.3	95.7
110°	1.7	1.7	5.0	15.1	26.9	42.0	55.4	67.2	77.2	83.9	87.3

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.7	1.7	5.0	13.4	23.5	36.9	48.7	60.4	68.8	75.5	80.6
115°	1.7	1.7	5.0	11.8	21.8	31.9	43.6	53.7	62.1	68.8	73.9
117.5°	1.7	1.7	5.0	10.1	18.5	28.5	38.6	48.7	55.4	62.1	67.2
120°	1.7	1.7	3.4	8.4	16.8	25.2	33.6	42.0	50.4	57.1	62.1
122.5°	1.7	1.7	3.4	8.4	13.4	21.8	30.2	36.9	45.3	50.4	55.4
125°	1.7	1.7	3.4	6.7	11.8	20.1	26.9	33.6	38.6	45.3	50.4
127.5°	1.7	1.7	3.4	6.7	10.1	16.8	23.5	30.2	35.3	40.3	43.6
130°	1.7	1.7	3.4	5.0	8.4	13.4	20.1	25.2	31.9	35.3	38.6
132.5°	1.7	1.7	1.7	5.0	6.7	10.1	15.1	21.8	26.9	31.9	33.6
135°	1.7	1.7	1.7	3.4	6.7	8.4	11.8	16.8	21.8	26.9	30.2
137.5°	1.7	1.7	1.7	3.4	5.0	8.4	10.1	13.4	18.5	21.8	26.9
140°	1.7	1.7	1.7	3.4	5.0	6.7	8.4	11.8	15.1	18.5	21.8
142.5°	1.7	1.7	1.7	3.4	3.4	5.0	6.7	10.1	11.8	15.1	18.5
145°	1.7	1.7	1.7	3.4	3.4	5.0	6.7	8.4	10.1	11.8	15.1
147.5°	1.7	1.7	1.7	3.4	3.4	3.4	5.0	6.7	8.4	10.1	11.8
150°	3.4	3.4	3.4	3.4	3.4	3.4	5.0	5.0	6.7	8.4	10.1
152.5°	3.4	3.4	3.4	3.4	3.4	3.4	5.0	5.0	5.0	6.7	8.4
155°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	5.0	5.0	6.7	6.7
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

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1
2.5°	3221.6	3224.9	3245.1	3243.4	3240.0	3236.7	3236.7	3233.3	3236.7	3245.1	3241.7
5°	3204.8	3209.8	3224.9	3223.2	3219.9	3218.2	3216.5	3211.5	3214.8	3226.6	3223.2
7.5°	3174.5	3179.6	3193.0	3186.3	3181.3	3184.6	3176.2	3171.2	3177.9	3189.7	3188.0
10°	3142.6	3146.0	3162.8	3159.4	3151.0	3152.7	3144.3	3141.0	3149.4	3156.1	3157.8
12.5°	3120.8	3132.6	3147.7	3146.0	3144.3	3146.0	3137.6	3134.3	3139.3	3146.0	3144.3
15°	3115.8	3130.9	3147.7	3147.7	3149.4	3151.0	3142.6	3137.6	3142.6	3147.7	3146.0
17.5°	3110.8	3129.2	3144.3	3142.6	3144.3	3147.7	3134.3	3130.9	3137.6	3144.3	3141.0
20°	3094.0	3110.8	3120.8	3117.5	3117.5	3119.1	3102.4	3102.4	3112.4	3117.5	3119.1
22.5°	3047.0	3067.1	3067.1	3058.7	3058.7	3052.0	3047.0	3036.9	3048.6	3057.0	3063.7
25°	2976.5	2984.8	2974.8	2956.3	2946.2	2937.8	2914.3	2934.5	2934.5	2959.7	2968.1
27.5°	2877.4	2858.9	2830.4	2791.8	2783.4	2756.5	2741.4	2746.5	2754.9	2790.1	2817.0
30°	2714.6	2659.2	2610.5	2593.7	2556.8	2529.9	2503.0	2516.5	2531.6	2551.7	2607.1
32.5°	2499.7	2446.0	2367.1	2338.5	2299.9	2266.3	2234.4	2254.6	2281.4	2294.9	2355.3
35°	2252.9	2189.1	2116.9	2068.2	2027.9	2009.5	1969.2	1997.7	2026.3	2036.3	2088.4
37.5°	1991.0	1925.5	1861.8	1819.8	1781.2	1769.4	1742.6	1762.7	1784.5	1799.6	1843.3
40°	1742.6	1682.1	1633.4	1604.9	1578.0	1568.0	1557.9	1566.3	1583.1	1594.8	1628.4
42.5°	1529.4	1480.7	1447.1	1430.3	1411.8	1398.4	1400.1	1403.4	1411.8	1437.0	1452.1
45°	1343.0	1314.5	1292.6	1289.3	1277.5	1275.9	1274.2	1280.9	1285.9	1301.0	1312.8
47.5°	1193.6	1181.9	1176.8	1183.5	1188.6	1181.9	1185.2	1193.6	1203.7	1203.7	1202.0
50°	1076.1	1079.4	1086.2	1101.3	1111.3	1114.7	1118.1	1128.1	1129.8	1133.2	1128.1
52.5°	980.4	983.8	1002.2	1025.7	1037.5	1042.5	1049.2	1059.3	1059.3	1062.7	1055.9
55°	883.0	888.1	906.5	930.0	940.1	946.8	953.5	960.3	965.3	972.0	967.0
57.5°	775.6	790.7	802.4	809.2	815.9	820.9	826.0	827.6	837.7	839.4	847.8
60°	661.4	664.8	676.5	674.9	669.8	683.3	676.5	688.3	700.0	715.2	716.8
62.5°	552.3	554.0	562.4	559.0	565.7	564.1	569.1	569.1	577.5	584.2	592.6
65°	466.7	468.4	475.1	475.1	473.4	478.4	483.5	486.8	486.8	491.9	498.6
67.5°	402.9	407.9	414.7	418.0	421.4	421.4	426.4	428.1	431.4	433.1	436.5
70°	359.3	366.0	372.7	376.0	377.7	381.1	382.8	382.8	386.1	387.8	391.2
72.5°	327.4	334.1	339.1	339.1	342.5	344.1	344.1	345.8	347.5	350.9	354.2
75°	300.5	305.5	308.9	307.2	307.2	307.2	308.9	308.9	312.3	315.6	319.0
77.5°	275.3	280.4	280.4	277.0	277.0	277.0	277.0	278.7	280.4	283.7	287.1
80°	256.9	256.9	255.2	255.2	251.8	250.1	250.1	251.8	251.8	255.2	260.2
82.5°	236.7	236.7	235.0	233.3	231.7	230.0	230.0	231.7	233.3	235.0	238.4
85°	218.2	218.2	214.9	214.9	213.2	213.2	213.2	213.2	214.9	216.6	219.9
87.5°	199.8	198.1	196.4	194.7	194.7	194.7	194.7	194.7	196.4	199.8	201.5
90°	181.3	179.6	177.9	177.9	176.3	176.3	177.9	177.9	179.6	181.3	183.0
92.5°	164.5	162.8	161.2	161.2	159.5	159.5	161.2	159.5	162.8	162.8	164.5
95°	149.4	147.7	146.1	146.1	146.1	146.1	146.1	146.1	147.7	147.7	149.4
97.5°	136.0	134.3	132.6	132.6	134.3	132.6	134.3	134.3	134.3	136.0	137.7
100°	124.2	122.5	122.5	124.2	122.5	122.5	124.2	124.2	124.2	124.2	125.9
102.5°	114.2	114.2	114.2	114.2	114.2	114.2	115.8	115.8	115.8	115.8	117.5
105°	104.1	105.8	105.8	105.8	107.4	107.4	107.4	109.1	109.1	109.1	109.1
107.5°	97.4	99.0	99.0	100.7	100.7	102.4	102.4	102.4	102.4	104.1	104.1
110°	90.7	92.3	94.0	95.7	95.7	97.4	97.4	97.4	97.4	97.4	97.4

TEST NUMBER: P1213546

CATALOG NUMBER: 4SNLED-LD5-92HL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	83.9	85.6	87.3	90.7	92.3	92.3	92.3	92.3	94.0	94.0	92.3
115°	77.2	80.6	82.3	85.6	87.3	87.3	89.0	89.0	89.0	89.0	87.3
117.5°	70.5	75.5	77.2	80.6	82.3	82.3	83.9	83.9	83.9	83.9	82.3
120°	65.5	68.8	72.2	73.9	75.5	77.2	77.2	78.9	78.9	78.9	77.2
122.5°	60.4	63.8	67.2	68.8	70.5	72.2	72.2	72.2	72.2	72.2	72.2
125°	53.7	57.1	60.4	62.1	63.8	65.5	65.5	67.2	67.2	67.2	65.5
127.5°	48.7	52.0	53.7	57.1	58.8	58.8	60.4	60.4	60.4	60.4	58.8
130°	42.0	45.3	48.7	50.4	52.0	52.0	53.7	53.7	53.7	53.7	53.7
132.5°	36.9	40.3	42.0	45.3	45.3	47.0	47.0	48.7	48.7	48.7	47.0
135°	33.6	35.3	36.9	40.3	40.3	42.0	42.0	42.0	42.0	42.0	42.0
137.5°	30.2	31.9	33.6	35.3	35.3	36.9	36.9	36.9	36.9	38.6	36.9
140°	25.2	28.5	30.2	30.2	31.9	31.9	31.9	33.6	33.6	33.6	31.9
142.5°	21.8	23.5	25.2	26.9	28.5	28.5	28.5	28.5	30.2	28.5	28.5
145°	16.8	20.1	21.8	23.5	25.2	25.2	25.2	25.2	25.2	25.2	25.2
147.5°	13.4	15.1	18.5	20.1	20.1	21.8	21.8	21.8	21.8	21.8	21.8
150°	11.8	11.8	15.1	16.8	18.5	18.5	18.5	18.5	18.5	18.5	18.5
152.5°	8.4	10.1	11.8	13.4	15.1	15.1	15.1	15.1	15.1	15.1	15.1
155°	8.4	8.4	10.1	10.1	11.8	11.8	11.8	11.8	13.4	11.8	11.8
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

TEST NUMBER: P1213546

CATALOG NUMBER: 4SNLED-LD5-92HL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1
2.5°	3236.7	3235.0	3241.7	3235.0	3201.4	3214.8	3209.8	3228.3	3229.9	3235.0	3251.8
5°	3219.9	3219.9	3228.3	3221.6	3189.7	3203.1	3201.4	3219.9	3223.2	3226.6	3245.1
7.5°	3186.3	3188.0	3199.7	3194.7	3161.1	3181.3	3179.6	3201.4	3208.1	3214.8	3231.6
10°	3154.4	3152.7	3166.2	3161.1	3129.2	3152.7	3151.0	3172.9	3182.9	3194.7	3214.8
12.5°	3137.6	3132.6	3137.6	3132.6	3097.3	3115.8	3117.5	3142.6	3154.4	3169.5	3193.0
15°	3137.6	3129.2	3129.2	3119.1	3078.9	3090.6	3092.3	3109.1	3124.2	3139.3	3167.8
17.5°	3134.3	3125.9	3124.2	3115.8	3072.1	3072.1	3070.5	3082.2	3090.6	3105.7	3135.9
20°	3115.8	3112.4	3110.8	3105.7	3065.4	3058.7	3055.4	3055.4	3060.4	3065.4	3095.6
22.5°	3067.1	3070.5	3073.8	3077.2	3045.3	3033.5	3035.2	3031.8	3026.8	3026.8	3052.0
25°	2976.5	2993.2	3006.7	3021.8	3003.3	2994.9	3005.0	3000.0	2991.6	2984.8	3006.7
27.5°	2832.1	2867.3	2895.9	2932.8	2934.5	2927.8	2954.6	2951.3	2949.6	2939.5	2956.3
30°	2632.3	2687.7	2726.3	2780.0	2825.4	2832.1	2877.4	2884.1	2890.8	2885.8	2902.6
32.5°	2390.6	2466.1	2531.6	2615.5	2659.2	2697.8	2761.6	2788.4	2815.3	2823.7	2842.1
35°	2127.0	2212.6	2289.8	2382.2	2451.0	2534.9	2612.2	2652.4	2712.9	2736.4	2763.2
37.5°	1876.9	1957.4	2033.0	2125.3	2236.1	2323.4	2419.1	2509.8	2592.0	2625.6	2665.9
40°	1655.3	1720.7	1792.9	1873.5	1974.2	2088.4	2192.5	2318.4	2415.7	2482.9	2541.7
42.5°	1487.4	1519.3	1581.4	1653.6	1734.2	1850.0	1955.8	2096.8	2214.3	2310.0	2407.3
45°	1338.0	1353.1	1398.4	1437.0	1519.3	1621.7	1734.2	1871.8	1994.4	2116.9	2234.4
47.5°	1210.4	1228.9	1250.7	1274.2	1332.9	1418.6	1515.9	1640.2	1762.7	1905.4	2039.7
50°	1124.8	1129.8	1133.2	1143.2	1178.5	1237.2	1316.2	1421.9	1539.4	1692.2	1834.9
52.5°	1049.2	1049.2	1039.2	1034.1	1047.5	1084.5	1129.8	1205.4	1326.2	1467.2	1618.3
55°	968.6	953.5	950.2	933.4	936.8	953.5	975.4	1034.1	1133.2	1254.0	1400.1
57.5°	856.2	849.5	849.5	842.7	829.3	837.7	842.7	884.7	955.2	1059.3	1186.9
60°	726.9	723.5	731.9	733.6	721.9	726.9	725.2	750.4	800.8	884.7	990.5
62.5°	597.6	612.7	614.4	621.1	614.4	612.7	621.1	643.0	668.1	731.9	814.2
65°	502.0	510.3	512.0	520.4	517.1	517.1	523.8	540.6	555.7	599.3	663.1
67.5°	439.8	436.5	438.2	443.2	438.2	436.5	441.5	451.6	463.3	490.2	535.5
70°	391.2	387.8	387.8	387.8	381.1	376.0	377.7	381.1	386.1	401.2	429.8
72.5°	354.2	354.2	349.2	344.1	339.1	335.8	332.4	329.0	327.4	332.4	347.5
75°	320.6	322.3	320.6	315.6	308.9	302.2	295.5	288.7	280.4	277.0	278.7
77.5°	290.4	292.1	293.8	292.1	285.4	277.0	266.9	256.9	245.1	233.3	226.6
80°	263.6	266.9	268.6	266.9	261.9	255.2	243.4	231.7	214.9	199.8	183.0
82.5°	240.1	245.1	246.8	246.8	243.4	236.7	223.3	209.8	191.4	171.2	149.4
85°	221.6	225.0	228.3	228.3	226.6	219.9	206.5	191.4	172.9	149.4	125.9
87.5°	203.1	204.8	208.2	211.5	208.2	201.5	189.7	172.9	154.4	130.9	104.1
90°	184.7	186.3	189.7	193.1	191.4	184.7	174.6	159.5	139.3	114.2	87.3
92.5°	166.2	169.6	171.2	172.9	174.6	169.6	161.2	146.1	125.9	100.7	75.5
95°	152.8	152.8	156.1	157.8	159.5	154.4	147.7	132.6	114.2	90.7	65.5
97.5°	139.3	139.3	142.7	142.7	144.4	141.0	134.3	120.9	102.4	80.6	55.4
100°	125.9	127.6	129.3	130.9	130.9	129.3	122.5	109.1	92.3	72.2	48.7
102.5°	117.5	117.5	119.2	119.2	120.9	117.5	110.8	99.0	82.3	63.8	42.0
105°	109.1	109.1	110.8	110.8	109.1	105.8	99.0	89.0	73.9	55.4	36.9
107.5°	102.4	102.4	102.4	102.4	100.7	97.4	90.7	78.9	65.5	50.4	33.6
110°	97.4	95.7	95.7	94.0	92.3	87.3	80.6	70.5	58.8	43.6	28.5

TEST NUMBER: P1213546

CATALOG NUMBER: 4SNLED-LD5-92HL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	92.3	90.7	89.0	87.3	83.9	78.9	72.2	63.8	52.0	38.6	25.2
115°	87.3	85.6	83.9	80.6	77.2	72.2	65.5	57.1	45.3	33.6	21.8
117.5°	82.3	80.6	77.2	73.9	70.5	65.5	58.8	50.4	40.3	30.2	20.1
120°	75.5	73.9	72.2	68.8	65.5	58.8	52.0	45.3	35.3	26.9	16.8
122.5°	70.5	68.8	65.5	63.8	58.8	53.7	47.0	40.3	31.9	23.5	15.1
125°	63.8	62.1	60.4	57.1	53.7	47.0	42.0	35.3	28.5	20.1	11.8
127.5°	58.8	57.1	53.7	50.4	47.0	42.0	36.9	31.9	25.2	16.8	11.8
130°	52.0	50.4	48.7	45.3	42.0	36.9	33.6	26.9	21.8	15.1	10.1
132.5°	45.3	45.3	43.6	40.3	36.9	33.6	28.5	23.5	18.5	13.4	8.4
135°	42.0	40.3	38.6	35.3	33.6	28.5	25.2	20.1	15.1	11.8	6.7
137.5°	36.9	35.3	33.6	31.9	28.5	25.2	21.8	16.8	13.4	10.1	6.7
140°	31.9	30.2	30.2	26.9	25.2	21.8	18.5	15.1	11.8	8.4	5.0
142.5°	28.5	26.9	25.2	23.5	21.8	18.5	15.1	11.8	10.1	6.7	5.0
145°	25.2	23.5	21.8	20.1	18.5	15.1	13.4	10.1	8.4	6.7	5.0
147.5°	20.1	20.1	18.5	16.8	15.1	13.4	11.8	10.1	6.7	5.0	3.4
150°	16.8	16.8	15.1	13.4	13.4	11.8	10.1	8.4	6.7	5.0	3.4
152.5°	15.1	13.4	13.4	11.8	11.8	10.1	8.4	6.7	5.0	5.0	3.4
155°	11.8	11.8	11.8	10.1	10.1	8.4	6.7	6.7	5.0	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: P1213546

CATALOG NUMBER: 4SNLED-LD5-92HL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1
2.5°	3255.1	3235.0	3251.8	3282.0	3278.6	3275.3	3271.9	3278.6	3300.5	3288.7	3270.2
5°	3250.1	3229.9	3248.4	3276.9	3275.3	3270.2	3266.9	3273.6	3295.4	3283.7	3263.5
7.5°	3240.0	3221.6	3235.0	3263.5	3263.5	3260.2	3256.8	3263.5	3283.7	3273.6	3253.4
10°	3223.2	3209.8	3223.2	3250.1	3251.8	3245.1	3241.7	3250.1	3270.2	3265.2	3248.4
12.5°	3209.8	3196.4	3211.5	3238.3	3240.0	3233.3	3228.3	3238.3	3265.2	3268.6	3263.5
15°	3191.3	3179.6	3198.0	3226.6	3226.6	3221.6	3221.6	3235.0	3271.9	3287.0	3295.4
17.5°	3164.5	3156.1	3177.9	3206.4	3208.1	3204.8	3206.4	3233.3	3282.0	3318.9	3342.4
20°	3130.9	3127.5	3151.0	3181.3	3186.3	3188.0	3196.4	3236.7	3303.8	3354.2	3377.7
22.5°	3090.6	3092.3	3119.1	3151.0	3157.8	3162.8	3179.6	3236.7	3320.6	3374.3	3384.4
25°	3045.3	3050.3	3078.9	3117.5	3125.9	3135.9	3164.5	3238.3	3325.6	3360.9	3344.1
27.5°	2996.6	3006.7	3043.6	3083.9	3094.0	3110.8	3147.7	3228.3	3302.1	3303.8	3241.7
30°	2946.2	2958.0	3001.6	3048.6	3065.4	3082.2	3127.5	3204.8	3245.1	3191.3	3082.2
32.5°	2889.2	2905.9	2949.6	3006.7	3026.8	3048.6	3094.0	3159.4	3144.3	3028.5	2872.4
35°	2817.0	2840.5	2890.8	2958.0	2976.5	3005.0	3036.9	3052.0	2984.8	2820.3	2644.1
37.5°	2728.0	2763.2	2822.0	2899.2	2919.4	2937.8	2946.2	2904.3	2770.0	2592.0	2409.0
40°	2625.6	2679.3	2743.1	2828.7	2848.9	2848.9	2818.6	2729.7	2560.1	2326.8	2123.6
42.5°	2501.4	2566.8	2647.4	2733.0	2753.2	2729.7	2657.5	2501.4	2308.3	2048.1	1833.2
45°	2350.3	2437.6	2528.2	2617.2	2627.3	2575.2	2446.0	2247.9	2009.5	1767.7	1562.9
47.5°	2170.6	2284.8	2383.8	2484.6	2471.1	2383.8	2210.9	1986.0	1734.2	1505.9	1341.3
50°	1969.2	2103.5	2214.3	2310.0	2281.4	2160.6	1957.4	1722.4	1472.3	1277.5	1141.6
52.5°	1754.3	1908.8	2019.6	2096.8	2058.2	1913.8	1690.5	1465.6	1260.8	1082.8	992.2
55°	1531.0	1687.2	1801.3	1861.8	1811.4	1655.3	1435.3	1230.5	1037.5	921.6	867.9
57.5°	1314.5	1460.5	1568.0	1616.7	1552.9	1396.7	1193.6	1020.7	881.4	784.0	757.1
60°	1106.3	1225.5	1327.9	1364.8	1296.0	1151.6	977.0	839.4	737.0	669.8	656.4
62.5°	913.2	1010.6	1091.2	1119.7	1052.6	940.1	789.0	686.6	614.4	580.9	564.1
65°	753.8	810.8	893.1	888.1	847.8	743.7	632.9	560.7	513.7	491.9	481.8
67.5°	592.6	644.6	696.7	703.4	653.0	580.9	508.7	456.6	431.4	419.7	414.7
70°	458.3	496.9	528.8	520.4	493.6	448.2	402.9	374.4	364.3	359.3	359.3
72.5°	355.9	376.0	391.2	381.1	364.3	340.8	319.0	307.2	308.9	312.3	315.6
75°	275.3	280.4	283.7	273.6	270.3	255.2	253.5	255.2	265.2	275.3	280.4
77.5°	211.5	204.8	199.8	189.7	191.4	189.7	198.1	211.5	226.6	241.7	255.2
80°	162.8	147.7	136.0	125.9	130.9	139.3	156.1	176.3	196.4	213.2	230.0
82.5°	125.9	104.1	87.3	77.2	87.3	100.7	122.5	147.7	171.2	189.7	208.2
85°	97.4	72.2	52.0	42.0	52.0	72.2	95.7	124.2	149.4	169.6	188.0
87.5°	75.5	52.0	28.5	16.8	28.5	50.4	77.2	104.1	129.3	152.8	171.2
90°	60.4	35.3	13.4	3.4	15.1	35.3	60.4	87.3	112.5	137.7	156.1
92.5°	48.7	25.2	6.7	0.0	8.4	26.9	50.4	75.5	100.7	124.2	142.7
95°	40.3	20.1	5.0	0.0	6.7	20.1	40.3	65.5	89.0	112.5	127.6
97.5°	33.6	15.1	3.4	0.0	3.4	16.8	33.6	55.4	78.9	100.7	115.8
100°	28.5	13.4	3.4	0.0	3.4	13.4	28.5	48.7	68.8	89.0	104.1
102.5°	23.5	10.1	1.7	1.7	1.7	10.1	25.2	42.0	60.4	78.9	94.0
105°	21.8	8.4	1.7	1.7	1.7	8.4	21.8	36.9	53.7	70.5	83.9
107.5°	18.5	6.7	1.7	1.7	1.7	6.7	18.5	31.9	48.7	63.8	75.5
110°	15.1	6.7	1.7	1.7	1.7	6.7	15.1	28.5	42.0	55.4	67.2



TEST NUMBER: P1213546

CATALOG NUMBER: 4SNLED-LD5-92HL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	13.4	5.0	1.7	1.7	1.7	5.0	13.4	25.2	36.9	50.4	60.4
115°	11.8	5.0	1.7	1.7	1.7	5.0	11.8	21.8	31.9	43.6	53.7
117.5°	10.1	5.0	1.7	1.7	1.7	3.4	10.1	18.5	28.5	38.6	48.7
120°	8.4	3.4	1.7	1.7	1.7	3.4	8.4	16.8	25.2	33.6	42.0
122.5°	8.4	3.4	1.7	1.7	1.7	3.4	6.7	13.4	21.8	28.5	36.9
125°	6.7	3.4	1.7	1.7	1.7	1.7	6.7	11.8	18.5	25.2	31.9
127.5°	6.7	3.4	1.7	1.7	1.7	1.7	5.0	10.1	15.1	21.8	28.5
130°	5.0	3.4	1.7	1.7	1.7	1.7	3.4	8.4	13.4	18.5	23.5
132.5°	5.0	3.4	1.7	1.7	1.7	1.7	3.4	6.7	10.1	15.1	20.1
135°	5.0	1.7	1.7	1.7	1.7	1.7	1.7	5.0	8.4	11.8	15.1
137.5°	3.4	1.7	1.7	1.7	1.7	1.7	1.7	3.4	6.7	8.4	13.4
140°	3.4	1.7	1.7	1.7	1.7	1.7	1.7	3.4	5.0	6.7	10.1
142.5°	3.4	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.4	5.0	8.4
145°	3.4	1.7	1.7	3.4	3.4	1.7	1.7	3.4	3.4	5.0	6.7
147.5°	3.4	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.4	3.4	5.0
150°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	5.0
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: P1213546

CATALOG NUMBER: 4SNLED-LD5-92HL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1
2.5°	3266.9	3228.3	3248.4	3241.7	3248.4	3265.2	3263.5	3258.5	3261.8	3253.4	3245.1
5°	3260.2	3221.6	3241.7	3233.3	3241.7	3258.5	3255.1	3250.1	3255.1	3245.1	3236.7
7.5°	3251.8	3216.5	3240.0	3238.3	3253.4	3275.3	3276.9	3276.9	3288.7	3273.6	3266.9
10°	3251.8	3233.3	3265.2	3276.9	3315.6	3344.1	3347.5	3354.2	3374.3	3371.0	3354.2
12.5°	3287.0	3283.7	3330.7	3359.2	3394.5	3434.8	3456.6	3463.3	3476.7	3466.7	3459.9
15°	3332.3	3349.1	3401.2	3433.1	3471.7	3501.9	3506.9	3510.3	3520.4	3505.3	3493.5
17.5°	3392.8	3402.9	3444.8	3458.3	3483.4	3488.5	3481.8	3465.0	3465.0	3431.4	3421.3
20°	3421.3	3416.3	3433.1	3411.3	3401.2	3371.0	3342.4	3310.5	3308.8	3273.6	3270.2
22.5°	3396.1	3362.6	3327.3	3273.6	3250.1	3206.4	3167.8	3149.4	3137.6	3092.3	3080.5
25°	3307.2	3224.9	3172.9	3109.1	3052.0	3001.6	2964.7	2926.1	2889.2	2852.2	2835.4
27.5°	3152.7	3075.5	2991.6	2902.6	2823.7	2746.5	2684.3	2645.7	2610.5	2561.8	2536.6
30°	2963.0	2855.6	2763.2	2677.6	2548.4	2454.4	2402.3	2325.1	2298.2	2276.4	2229.4
32.5°	2739.7	2610.5	2484.6	2368.7	2236.1	2148.8	2080.0	2022.9	2006.1	1949.0	1935.6
35°	2493.0	2323.4	2180.7	2066.6	1970.9	1865.1	1808.0	1769.4	1735.8	1697.2	1690.5
37.5°	2202.5	2049.8	1888.6	1787.9	1712.3	1621.7	1578.0	1551.2	1536.1	1507.5	1502.5
40°	1910.4	1757.7	1646.9	1546.1	1499.1	1450.5	1418.6	1406.8	1400.1	1390.0	1379.9
42.5°	1645.2	1510.9	1432.0	1364.8	1344.7	1321.2	1312.8	1319.5	1312.8	1309.4	1307.8
45°	1420.2	1317.8	1262.4	1242.3	1237.2	1230.5	1237.2	1249.0	1250.7	1247.3	1247.3
47.5°	1215.4	1166.7	1143.2	1146.6	1155.0	1160.0	1171.8	1186.9	1190.2	1181.9	1185.2
50°	1081.1	1052.6	1047.5	1061.0	1079.4	1086.2	1099.6	1111.3	1109.7	1106.3	1102.9
52.5°	955.2	946.8	960.3	973.7	993.8	997.2	1002.2	1007.3	1005.6	998.9	995.5
55°	849.5	856.2	867.9	873.0	888.1	886.4	888.1	888.1	881.4	878.0	873.0
57.5°	753.8	755.4	762.2	763.8	772.2	768.9	767.2	763.8	753.8	752.1	747.1
60°	656.4	653.0	668.1	656.4	663.1	656.4	654.7	646.3	636.3	634.6	631.2
62.5°	564.1	557.4	567.4	562.4	565.7	559.0	555.7	545.6	537.2	535.5	533.8
65°	481.8	478.4	488.5	486.8	490.2	481.8	478.4	471.7	465.0	463.3	461.7
67.5°	413.0	421.4	426.4	426.4	429.8	428.1	419.7	418.0	416.3	409.6	409.6
70°	362.6	367.6	377.7	379.4	377.7	381.1	374.4	372.7	371.0	367.6	366.0
72.5°	322.3	329.0	339.1	340.8	339.1	339.1	335.8	334.1	334.1	329.0	329.0
75°	290.4	298.8	307.2	307.2	307.2	303.9	300.5	300.5	297.1	295.5	292.1
77.5°	263.6	273.6	280.4	278.7	277.0	273.6	273.6	268.6	263.6	263.6	260.2
80°	243.4	250.1	255.2	253.5	251.8	246.8	245.1	240.1	236.7	231.7	231.7
82.5°	221.6	230.0	233.3	231.7	228.3	223.3	221.6	218.2	214.9	213.2	209.8
85°	203.1	211.5	213.2	209.8	206.5	203.1	201.5	199.8	198.1	194.7	194.7
87.5°	184.7	193.1	193.1	191.4	188.0	186.3	184.7	183.0	181.3	179.6	177.9
90°	169.6	176.3	176.3	174.6	172.9	171.2	169.6	167.9	166.2	164.5	164.5
92.5°	154.4	161.2	161.2	159.5	157.8	156.1	156.1	154.4	152.8	151.1	149.4
95°	141.0	147.7	147.7	147.7	146.1	144.4	144.4	142.7	141.0	141.0	139.3
97.5°	127.6	134.3	134.3	134.3	132.6	130.9	130.9	129.3	129.3	129.3	127.6
100°	115.8	120.9	122.5	122.5	120.9	120.9	120.9	119.2	119.2	119.2	117.5
102.5°	104.1	109.1	112.5	112.5	112.5	110.8	110.8	110.8	110.8	110.8	109.1
105°	94.0	99.0	102.4	104.1	104.1	104.1	104.1	104.1	104.1	104.1	104.1
107.5°	85.6	90.7	94.0	95.7	97.4	97.4	99.0	99.0	99.0	99.0	99.0
110°	77.2	82.3	87.3	89.0	90.7	92.3	92.3	94.0	92.3	92.3	92.3

TEST NUMBER: P1213546

CATALOG NUMBER: 4SNLED-LD5-92HL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	68.8	75.5	78.9	82.3	83.9	85.6	87.3	87.3	87.3	87.3	87.3
115°	62.1	68.8	72.2	75.5	78.9	80.6	80.6	82.3	82.3	82.3	80.6
117.5°	55.4	62.1	65.5	68.8	70.5	73.9	75.5	75.5	75.5	75.5	73.9
120°	50.4	55.4	58.8	62.1	65.5	67.2	68.8	68.8	68.8	68.8	68.8
122.5°	43.6	48.7	53.7	57.1	58.8	60.4	62.1	62.1	62.1	62.1	62.1
125°	38.6	43.6	47.0	50.4	52.0	55.4	55.4	55.4	55.4	55.4	55.4
127.5°	33.6	38.6	42.0	45.3	47.0	48.7	50.4	50.4	50.4	50.4	50.4
130°	28.5	33.6	36.9	40.3	42.0	43.6	43.6	45.3	45.3	45.3	45.3
132.5°	25.2	28.5	31.9	35.3	36.9	38.6	38.6	40.3	40.3	40.3	40.3
135°	20.1	25.2	26.9	30.2	31.9	33.6	33.6	35.3	35.3	35.3	35.3
137.5°	16.8	20.1	23.5	26.9	28.5	28.5	30.2	30.2	31.9	31.9	31.9
140°	13.4	15.1	20.1	21.8	23.5	25.2	26.9	26.9	26.9	26.9	26.9
142.5°	10.1	13.4	15.1	18.5	20.1	21.8	23.5	23.5	23.5	23.5	23.5
145°	8.4	10.1	11.8	15.1	16.8	18.5	20.1	20.1	20.1	20.1	20.1
147.5°	6.7	8.4	10.1	11.8	13.4	15.1	16.8	16.8	16.8	16.8	16.8
150°	5.0	6.7	8.4	8.4	10.1	11.8	13.4	15.1	15.1	15.1	15.1
152.5°	5.0	5.0	6.7	6.7	8.4	10.1	11.8	11.8	11.8	11.8	11.8
155°	3.4	5.0	5.0	5.0	6.7	6.7	8.4	10.1	10.1	10.1	10.1
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: P1213546

CATALOG NUMBER: 4SNLED-LD5-92HL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1
2.5°	3250.1	3256.8	3253.4	3248.4	3246.7	3255.1	3246.7	3208.1	3223.2	3224.9	3236.7
5°	3245.1	3250.1	3246.7	3243.4	3238.3	3248.4	3238.3	3198.0	3213.2	3214.8	3226.6
7.5°	3278.6	3280.3	3280.3	3271.9	3258.5	3263.5	3250.1	3204.8	3213.2	3213.2	3221.6
10°	3362.6	3365.9	3371.0	3349.1	3332.3	3318.9	3300.5	3245.1	3243.4	3229.9	3229.9
12.5°	3471.7	3463.3	3454.9	3444.8	3431.4	3414.6	3387.7	3322.3	3300.5	3278.6	3256.8
15°	3503.6	3500.2	3498.5	3493.5	3485.1	3480.1	3459.9	3394.5	3362.6	3335.7	3297.1
17.5°	3419.6	3426.4	3448.2	3449.9	3459.9	3480.1	3476.7	3431.4	3402.9	3391.1	3344.1
20°	3268.6	3270.2	3297.1	3308.8	3352.5	3386.1	3411.3	3406.2	3399.5	3412.9	3377.7
22.5°	3087.2	3099.0	3127.5	3146.0	3188.0	3226.6	3266.9	3288.7	3324.0	3379.4	3372.6
25°	2840.5	2855.6	2895.9	2926.1	2984.8	3043.6	3097.3	3135.9	3177.9	3283.7	3318.9
27.5°	2545.0	2568.5	2620.6	2650.8	2733.0	2793.5	2870.7	2946.2	3005.0	3125.9	3198.0
30°	2234.4	2254.6	2310.0	2352.0	2422.5	2504.7	2602.1	2709.5	2806.9	2929.4	3020.1
32.5°	1944.0	1965.8	2011.2	2048.1	2127.0	2195.8	2303.3	2435.9	2526.5	2696.1	2817.0
35°	1690.5	1710.7	1742.6	1774.5	1839.9	1910.4	2002.8	2132.0	2247.9	2424.1	2576.9
37.5°	1512.6	1515.9	1534.4	1552.9	1601.5	1655.3	1727.4	1841.6	1949.0	2138.7	2306.6
40°	1385.0	1385.0	1395.1	1400.1	1421.9	1453.8	1499.1	1588.1	1677.1	1821.5	2026.3
42.5°	1306.1	1302.7	1302.7	1304.4	1302.7	1317.8	1344.7	1386.7	1465.6	1584.8	1744.2
45°	1247.3	1240.6	1235.6	1223.8	1217.1	1217.1	1218.8	1233.9	1279.2	1356.4	1485.7
47.5°	1181.9	1180.2	1171.8	1158.3	1146.6	1138.2	1124.8	1119.7	1133.2	1176.8	1264.1
50°	1106.3	1097.9	1089.5	1079.4	1066.0	1057.6	1032.4	1034.1	1022.4	1042.5	1087.8
52.5°	995.5	988.8	985.4	977.0	972.0	968.6	948.5	928.4	923.3	926.7	943.5
55°	873.0	876.3	862.9	869.6	867.9	852.8	844.4	829.3	824.3	822.6	831.0
57.5°	745.4	748.7	740.3	747.1	747.1	738.7	733.6	733.6	721.9	711.8	723.5
60°	629.5	622.8	627.9	636.3	636.3	631.2	627.9	627.9	619.5	616.1	624.5
62.5°	535.5	528.8	533.8	542.2	543.9	540.6	537.2	537.2	527.1	527.1	533.8
65°	463.3	465.0	463.3	470.1	470.1	471.7	468.4	465.0	453.3	458.3	456.6
67.5°	411.3	409.6	409.6	416.3	414.7	418.0	414.7	409.6	401.2	394.5	392.8
70°	367.6	366.0	366.0	369.3	371.0	371.0	369.3	366.0	354.2	347.5	342.5
72.5°	329.0	327.4	329.0	330.7	332.4	334.1	332.4	329.0	319.0	310.6	302.2
75°	293.8	292.1	297.1	297.1	298.8	298.8	300.5	298.8	290.4	280.4	270.3
77.5°	258.5	260.2	265.2	266.9	270.3	272.0	273.6	273.6	265.2	256.9	243.4
80°	230.0	233.3	236.7	238.4	241.7	246.8	248.5	250.1	243.4	235.0	219.9
82.5°	209.8	211.5	214.9	216.6	221.6	223.3	225.0	228.3	225.0	216.6	199.8
85°	193.1	194.7	198.1	198.1	201.5	204.8	206.5	208.2	206.5	198.1	181.3
87.5°	177.9	179.6	181.3	183.0	184.7	186.3	188.0	189.7	188.0	179.6	164.5
90°	164.5	164.5	166.2	166.2	167.9	169.6	172.9	172.9	171.2	164.5	149.4
92.5°	149.4	151.1	151.1	152.8	154.4	156.1	157.8	157.8	156.1	149.4	136.0
95°	139.3	139.3	141.0	141.0	142.7	142.7	144.4	144.4	142.7	136.0	122.5
97.5°	127.6	127.6	127.6	127.6	129.3	129.3	130.9	130.9	129.3	122.5	110.8
100°	117.5	117.5	117.5	117.5	117.5	119.2	119.2	119.2	117.5	110.8	99.0
102.5°	109.1	109.1	109.1	109.1	109.1	109.1	109.1	109.1	105.8	100.7	89.0
105°	104.1	104.1	104.1	102.4	102.4	102.4	100.7	100.7	95.7	90.7	80.6
107.5°	97.4	97.4	97.4	95.7	95.7	94.0	92.3	92.3	87.3	82.3	72.2
110°	92.3	92.3	92.3	90.7	89.0	87.3	85.6	83.9	78.9	72.2	63.8

TEST NUMBER: P1213546

CATALOG NUMBER: 4SNLED-LD5-92HL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	87.3	87.3	85.6	85.6	83.9	82.3	78.9	77.2	72.2	65.5	57.1
115°	80.6	80.6	80.6	78.9	77.2	75.5	73.9	70.5	65.5	58.8	50.4
117.5°	73.9	73.9	73.9	72.2	70.5	68.8	67.2	63.8	58.8	52.0	45.3
120°	67.2	67.2	67.2	65.5	63.8	62.1	60.4	57.1	52.0	47.0	38.6
122.5°	62.1	62.1	60.4	58.8	57.1	55.4	53.7	50.4	47.0	40.3	33.6
125°	55.4	55.4	53.7	53.7	52.0	50.4	48.7	45.3	40.3	35.3	30.2
127.5°	50.4	48.7	48.7	48.7	47.0	45.3	42.0	40.3	35.3	30.2	25.2
130°	43.6	43.6	43.6	42.0	42.0	40.3	36.9	33.6	30.2	26.9	21.8
132.5°	38.6	38.6	38.6	38.6	36.9	35.3	31.9	30.2	26.9	21.8	18.5
135°	35.3	35.3	33.6	33.6	31.9	30.2	28.5	25.2	21.8	18.5	15.1
137.5°	30.2	30.2	30.2	28.5	28.5	26.9	23.5	21.8	20.1	16.8	13.4
140°	26.9	26.9	25.2	25.2	23.5	23.5	21.8	18.5	16.8	13.4	11.8
142.5°	23.5	23.5	21.8	21.8	20.1	20.1	18.5	16.8	13.4	11.8	8.4
145°	20.1	20.1	18.5	18.5	18.5	16.8	15.1	13.4	11.8	10.1	8.4
147.5°	16.8	16.8	16.8	15.1	15.1	13.4	13.4	11.8	10.1	8.4	6.7
150°	15.1	15.1	13.4	13.4	13.4	11.8	10.1	10.1	8.4	6.7	5.0
152.5°	11.8	11.8	11.8	11.8	10.1	10.1	8.4	8.4	6.7	5.0	5.0
155°	10.1	10.1	10.1	8.4	8.4	8.4	6.7	6.7	5.0	5.0	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: P1213546

CATALOG NUMBER: 4SNLED-LD5-92HL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1	3250.1
2.5°	3231.6	3229.9	3245.1	3243.4	3223.2	3253.4	3273.6
5°	3223.2	3221.6	3235.0	3238.3	3216.5	3248.4	3270.2
7.5°	3216.5	3214.8	3229.9	3235.0	3213.2	3241.7	3265.2
10°	3218.2	3209.8	3223.2	3226.6	3206.4	3236.7	3256.8
12.5°	3229.9	3209.8	3214.8	3214.8	3196.4	3223.2	3245.1
15°	3258.5	3216.5	3209.8	3204.8	3181.3	3206.4	3228.3
17.5°	3290.4	3233.3	3209.8	3193.0	3164.5	3186.3	3209.8
20°	3322.3	3251.8	3213.2	3186.3	3147.7	3167.8	3184.6
22.5°	3337.4	3268.6	3216.5	3176.2	3127.5	3137.6	3156.1
25°	3317.2	3261.8	3209.8	3161.1	3102.4	3104.0	3119.1
27.5°	3243.4	3228.3	3194.7	3146.0	3082.2	3073.8	3085.6
30°	3117.5	3159.4	3161.1	3125.9	3058.7	3041.9	3047.0
32.5°	2941.2	3035.2	3090.6	3083.9	3025.1	3001.6	3005.0
35°	2738.1	2855.6	2976.5	3016.7	2974.8	2956.3	2949.6
37.5°	2494.6	2652.4	2813.6	2912.7	2905.9	2894.2	2887.5
40°	2226.0	2415.7	2607.1	2764.9	2813.6	2813.6	2817.0
42.5°	1939.0	2160.6	2370.4	2570.2	2684.3	2709.5	2719.6
45°	1662.0	1885.3	2113.6	2343.6	2496.3	2575.2	2603.8
47.5°	1410.2	1635.1	1851.7	2103.5	2306.6	2409.0	2454.4
50°	1195.3	1363.2	1591.5	1841.6	2063.2	2189.1	2278.1
52.5°	1017.3	1148.3	1348.0	1581.4	1804.7	1977.6	2059.8
55°	867.9	956.9	1126.5	1327.9	1541.1	1720.7	1816.4
57.5°	742.0	812.5	928.4	1096.2	1275.9	1453.8	1556.2
60°	631.2	679.9	758.8	891.4	1044.2	1197.0	1296.0
62.5°	535.5	567.4	619.5	716.8	836.0	955.2	1047.5
65°	461.7	475.1	503.6	564.1	654.7	745.4	824.3
67.5°	389.5	397.9	419.7	456.6	502.0	567.4	619.5
70°	335.8	335.8	337.4	359.3	382.8	424.7	461.7
72.5°	292.1	287.1	277.0	282.0	287.1	310.6	334.1
75°	256.9	245.1	228.3	221.6	218.2	221.6	235.0
77.5°	226.6	209.8	189.7	172.9	159.5	154.4	166.2
80°	201.5	181.3	157.8	136.0	114.2	102.4	107.4
82.5°	181.3	156.1	130.9	105.8	80.6	63.8	63.8
85°	159.5	136.0	109.1	82.3	57.1	35.3	31.9
87.5°	144.4	119.2	90.7	65.5	40.3	18.5	10.1
90°	129.3	104.1	77.2	52.0	28.5	8.4	0.0
92.5°	115.8	92.3	67.2	42.0	20.1	5.0	0.0
95°	104.1	82.3	57.1	35.3	16.8	3.4	1.7
97.5°	92.3	72.2	50.4	28.5	11.8	3.4	1.7
100°	83.9	63.8	43.6	23.5	10.1	1.7	1.7
102.5°	73.9	57.1	36.9	20.1	8.4	1.7	1.7
105°	65.5	50.4	31.9	16.8	6.7	1.7	1.7
107.5°	58.8	43.6	28.5	15.1	6.7	1.7	1.7
110°	52.0	38.6	25.2	13.4	5.0	1.7	1.7



TEST NUMBER: P1213546

CATALOG NUMBER: 4SNLED-LD5-92HL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	47.0	33.6	21.8	11.8	3.4	1.7	1.7
115°	40.3	30.2	18.5	10.1	3.4	1.7	1.7
117.5°	35.3	25.2	16.8	8.4	3.4	1.7	1.7
120°	30.2	21.8	13.4	6.7	1.7	1.7	1.7
122.5°	26.9	18.5	11.8	6.7	1.7	1.7	1.7
125°	23.5	16.8	10.1	5.0	1.7	1.7	1.7
127.5°	20.1	13.4	8.4	3.4	1.7	1.7	1.7
130°	16.8	11.8	6.7	3.4	1.7	1.7	1.7
132.5°	13.4	10.1	6.7	3.4	1.7	1.7	1.7
135°	11.8	8.4	5.0	3.4	1.7	1.7	1.7
137.5°	10.1	6.7	3.4	3.4	3.4	1.7	1.7
140°	8.4	5.0	3.4	3.4	3.4	3.4	1.7
142.5°	6.7	5.0	3.4	3.4	3.4	3.4	1.7
145°	5.0	3.4	3.4	3.4	3.4	3.4	1.7
147.5°	5.0	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)