

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: P1213519

Luminaire Tested: 4SNLED-LD5-71SL-LN-UNV-L935-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213519
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33519)
Test Lab: INNOVATIONS CENTER-P3
Issue Date: 3/29/2018
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4SNLED-LD5-71SL-LN-UNV-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

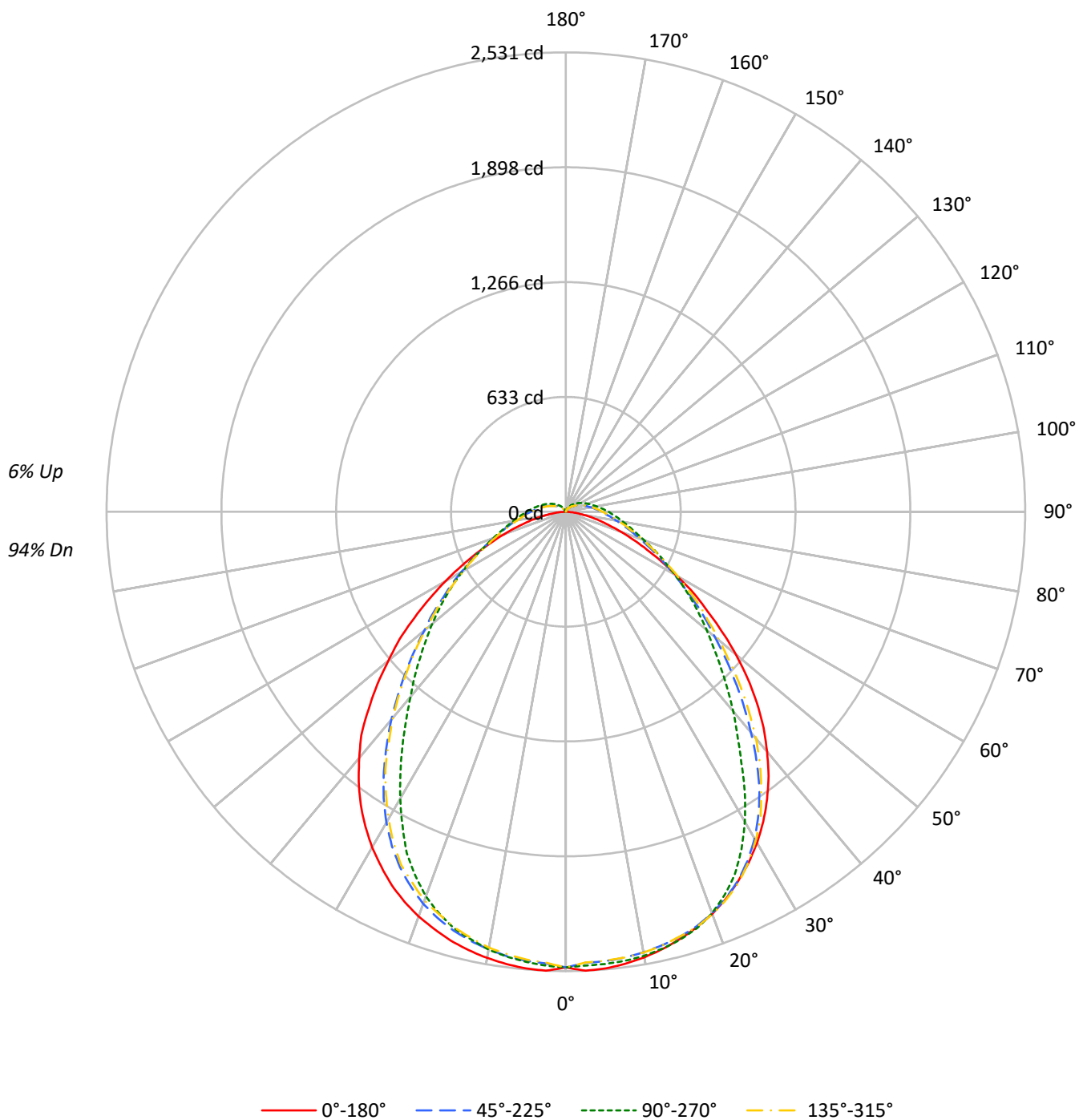
Lumens per Lamp: N/A
Luminaire Lumens: 6353.0 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 70
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96
1	107	103	98	95	104	100	96	92	94	91	88	89	87	85	85	83	81
2	98	90	84	78	95	88	82	77	83	78	74	79	75	72	75	72	69
3	90	80	72	66	87	78	71	65	74	68	63	71	66	61	67	63	60
4	83	72	63	57	80	70	62	56	67	60	55	64	58	53	61	56	52
5	77	64	56	50	74	63	55	49	60	53	48	58	52	47	55	50	46
6	71	58	50	44	69	57	49	43	55	48	42	52	46	42	50	45	41
7	66	53	45	39	64	52	44	39	50	43	38	48	42	37	46	41	37
8	62	49	41	35	60	48	40	35	46	39	34	44	38	34	43	37	33
9	58	45	37	32	56	44	37	31	42	36	31	41	35	30	40	34	30
10	54	42	34	29	53	41	34	29	39	33	28	38	32	28	37	31	27

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	20286	20286	20286	20286
5°	20431	19640	20431	19553
10°	20340	19118	20373	18853
15°	20209	18547	20300	18064
20°	20053	17812	20171	17060
25°	19732	16723	19950	15738
30°	19313	15122	19567	13999
35°	18663	13160	19022	12254
40°	17728	11509	18197	10678
45°	16496	10005	17032	9431
50°	14811	8791	15464	8348
55°	12813	7763	13743	7371
60°	10775	6816	11751	6424
65°	8835	6027	9725	5588
70°	7030	5348	7872	4947
75°	5522	4938	6216	4542
80°	3985	4765	4696	4353
85°	2453	4791	3300	4404

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 180°

Vertical Angle: 45°

Luminance: 17032 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.0	3.7
10°-20°	682.4	10.7
20°-30°	1011.4	15.9
30°-40°	1123.6	17.7
40°-50°	1018.6	16.0
50°-60°	789.3	12.4
60°-70°	536.0	8.4
70°-80°	341.0	5.4
80°-90°	218.0	3.4
90°-100°	147.0	2.3
100°-110°	100.7	1.6
110°-120°	67.2	1.1
120°-130°	41.8	0.7
130°-140°	23.1	0.4
140°-150°	10.8	0.2
150°-160°	4.0	0.1
160°-170°	0.2	0.0
170°-180°	0.0	0.0
0°-30°	1931.8	30.4
0°-40°	3055.5	48.1
0°-60°	4863.3	76.6
0°-90°	5958.2	93.8
90°-120°	314.8	5.0
90°-150°	390.5	6.1
90°-180°	395.0	6.2
0°-180°	6353.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2510	2510	2510	2510	2510	
5°	2526	2501	2526	2490	2526	240
15°	2436	2440	2447	2376	2436	687
25°	2245	2204	2270	2074	2245	1034
35°	1933	1685	1970	1569	1933	1206
45°	1488	1204	1537	1135	1488	1143
55°	950	846	1019	804	950	855
65°	493	569	543	528	493	494
75°	198	380	222	349	198	213
85°	36	273	48	251	36	43
90°	0	236	3	215	0	2
95°	1	202	0	188	1	1
105°	1	148	0	140	1	1
115°	1	112	0	104	1	1
125°	1	83	1	73	1	1
135°	1	58	1	47	1	1
145°	1	37	1	26	1	1
155°	1	21	1	10	1	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2510.3	2510.3	2510.3	2510.3	2510.3	2510.3	2510.3	2510.3	2510.3	2510.3	2510.3
2.5°	2531.0	2528.3	2525.5	2521.4	2525.5	2536.6	2529.7	2514.5	2511.7	2486.9	2497.9
5°	2525.5	2521.4	2518.6	2514.5	2520.0	2533.8	2526.9	2513.1	2509.0	2485.5	2497.9
7.5°	2511.7	2509.0	2504.8	2504.8	2510.3	2524.1	2518.6	2503.4	2500.7	2477.2	2491.0
10°	2492.4	2491.0	2488.2	2488.2	2493.8	2510.3	2503.4	2489.6	2486.9	2464.8	2480.0
12.5°	2467.5	2468.9	2464.8	2464.8	2473.1	2489.6	2484.1	2468.9	2466.1	2446.8	2462.0
15°	2435.8	2437.2	2434.4	2435.8	2444.1	2463.4	2456.5	2442.7	2439.9	2424.7	2437.2
17.5°	2399.9	2401.3	2401.3	2399.9	2409.5	2428.9	2423.3	2410.9	2406.8	2394.3	2409.5
20°	2358.4	2358.4	2358.4	2358.4	2369.5	2388.8	2381.9	2372.3	2364.0	2354.3	2366.7
22.5°	2307.4	2306.0	2307.4	2311.5	2322.5	2337.7	2333.6	2322.5	2310.1	2304.6	2314.3
25°	2245.2	2249.4	2250.7	2254.9	2268.7	2281.1	2277.0	2265.9	2246.6	2242.5	2245.2
27.5°	2180.3	2183.1	2187.2	2185.8	2205.2	2217.6	2209.3	2199.7	2172.0	2167.9	2165.1
30°	2107.1	2111.3	2114.0	2112.7	2127.8	2141.7	2133.4	2120.9	2083.7	2080.9	2058.8
32.5°	2024.3	2028.4	2031.2	2031.2	2053.3	2058.8	2043.6	2025.7	1985.6	1976.0	1956.6
35°	1933.2	1937.3	1938.7	1938.7	1960.8	1959.4	1940.1	1915.2	1871.0	1858.6	1825.4
37.5°	1835.1	1837.9	1839.3	1847.5	1857.2	1848.9	1824.1	1792.3	1759.2	1724.6	1688.7
40°	1724.6	1728.8	1731.6	1737.1	1746.7	1737.1	1701.2	1662.5	1626.6	1587.9	1552.0
42.5°	1611.4	1623.8	1621.1	1619.7	1625.2	1599.0	1571.4	1527.2	1491.3	1451.2	1415.3
45°	1488.5	1487.1	1494.1	1496.8	1495.4	1473.3	1434.7	1394.6	1358.7	1317.3	1286.9
47.5°	1358.7	1357.3	1362.9	1365.6	1357.3	1333.9	1303.5	1257.9	1227.6	1191.7	1168.2
50°	1222.0	1222.0	1230.3	1222.0	1217.9	1194.4	1169.6	1124.0	1100.5	1068.8	1054.9
52.5°	1085.3	1097.8	1089.5	1086.7	1082.6	1059.1	1039.8	1002.5	983.1	969.3	952.8
55°	950.0	963.8	958.3	954.1	952.8	933.4	915.5	887.9	875.4	865.8	856.1
57.5°	835.4	834.0	831.3	827.1	828.5	813.3	795.4	780.2	774.6	770.5	773.3
60°	702.8	713.9	709.7	711.1	712.5	709.7	694.6	684.9	686.3	687.6	691.8
62.5°	593.8	603.4	610.3	604.8	607.6	611.7	603.4	600.7	606.2	611.7	617.2
65°	493.0	502.6	509.5	508.1	516.4	524.7	523.3	526.1	538.5	545.4	552.3
67.5°	401.8	411.5	421.2	422.5	435.0	447.4	452.9	462.6	476.4	486.0	494.3
70°	323.1	331.4	342.4	349.3	365.9	382.5	392.2	411.5	419.8	433.6	439.1
72.5°	252.7	259.6	274.8	291.4	305.2	325.9	345.2	361.8	374.2	389.4	396.3
75°	197.5	200.2	216.8	236.1	255.5	278.9	299.6	317.6	334.2	349.3	360.4
77.5°	145.0	149.1	164.3	190.6	212.6	237.5	261.0	280.3	298.3	313.4	328.6
80°	100.8	109.1	125.7	151.9	176.7	204.4	226.5	248.5	267.9	283.1	298.3
82.5°	64.9	71.8	95.3	121.5	147.7	175.4	198.8	220.9	241.6	258.2	272.0
85°	35.9	45.6	69.0	96.7	122.9	150.5	175.4	197.5	218.2	233.4	247.2
87.5°	13.8	27.6	49.7	75.9	102.2	128.4	154.7	175.4	196.1	212.6	225.1
90°	0.0	16.6	37.3	63.5	89.8	116.0	140.8	162.9	182.3	197.5	211.3
92.5°	1.4	11.0	29.0	51.1	75.9	100.8	124.3	146.4	165.7	180.9	193.3
95°	1.4	8.3	23.5	44.2	66.3	89.8	111.8	132.6	150.5	165.7	178.1
97.5°	1.4	5.5	19.3	38.7	58.0	81.5	102.2	121.5	138.1	153.3	162.9
100°	1.4	5.5	16.6	33.1	52.5	73.2	92.5	111.8	127.0	139.5	150.5
102.5°	1.4	4.1	13.8	29.0	46.9	64.9	84.2	102.2	116.0	128.4	139.5
105°	1.4	4.1	12.4	24.9	41.4	59.4	75.9	92.5	107.7	118.8	128.4
107.5°	1.4	2.8	11.0	20.7	35.9	53.9	70.4	84.2	98.0	109.1	118.8
110°	1.4	2.8	9.7	19.3	31.8	48.3	63.5	77.3	89.8	100.8	109.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.4	2.8	8.3	18.0	29.0	42.8	58.0	70.4	82.8	92.5	100.8
115°	1.4	2.8	8.3	16.6	26.2	37.3	51.1	64.9	74.6	85.6	92.5
117.5°	1.4	2.8	6.9	13.8	24.9	34.5	46.9	58.0	69.0	78.7	85.6
120°	1.4	2.8	6.9	12.4	22.1	31.8	41.4	52.5	63.5	70.4	77.3
122.5°	1.4	2.8	5.5	12.4	19.3	29.0	37.3	46.9	56.6	64.9	71.8
125°	1.4	2.8	5.5	11.0	18.0	26.2	34.5	41.4	51.1	58.0	64.9
127.5°	1.4	2.8	5.5	9.7	16.6	23.5	31.8	38.7	45.6	52.5	58.0
130°	1.4	2.8	4.1	8.3	15.2	20.7	27.6	35.9	41.4	46.9	52.5
132.5°	1.4	2.8	4.1	8.3	12.4	18.0	24.9	31.8	37.3	42.8	46.9
135°	1.4	2.8	4.1	6.9	11.0	16.6	20.7	27.6	33.1	38.7	42.8
137.5°	1.4	2.8	4.1	6.9	9.7	13.8	18.0	23.5	29.0	33.1	38.7
140°	1.4	2.8	4.1	5.5	8.3	12.4	16.6	19.3	24.9	29.0	33.1
142.5°	1.4	2.8	4.1	5.5	8.3	11.0	13.8	16.6	20.7	24.9	29.0
145°	1.4	2.8	4.1	5.5	6.9	9.7	12.4	15.2	16.6	20.7	23.5
147.5°	1.4	2.8	4.1	5.5	5.5	8.3	11.0	12.4	15.2	16.6	19.3
150°	1.4	2.8	4.1	4.1	5.5	6.9	9.7	11.0	12.4	15.2	16.6
152.5°	1.4	2.8	4.1	4.1	5.5	6.9	8.3	9.7	11.0	12.4	13.8
155°	1.4	2.8	4.1	4.1	4.1	5.5	6.9	8.3	9.7	11.0	12.4
157.5°	2.8	2.8	2.8	4.1	4.1	5.5	5.5	6.9	8.3	8.3	9.7
160°	2.8	2.8	2.8	4.1	4.1	4.1	5.5	5.5	6.9	6.9	8.3
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

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2510.3	2510.3	2510.3	2510.3	2510.3	2510.3	2510.3	2510.3	2510.3	2510.3	2510.3
2.5°	2495.1	2499.3	2511.7	2511.7	2509.0	2506.2	2506.2	2502.1	2504.8	2510.3	2507.6
5°	2495.1	2499.3	2511.7	2511.7	2509.0	2506.2	2504.8	2500.7	2504.8	2510.3	2507.6
7.5°	2486.9	2492.4	2504.8	2504.8	2502.1	2500.7	2497.9	2495.1	2499.3	2504.8	2502.1
10°	2475.8	2481.3	2493.8	2493.8	2491.0	2491.0	2486.9	2484.1	2489.6	2493.8	2492.4
12.5°	2459.2	2466.1	2477.2	2475.8	2473.1	2474.4	2470.3	2464.8	2470.3	2474.4	2475.8
15°	2435.8	2444.1	2455.1	2452.3	2448.2	2451.0	2444.1	2439.9	2444.1	2452.3	2451.0
17.5°	2405.4	2410.9	2419.2	2419.2	2415.1	2412.3	2409.5	2405.4	2408.2	2413.7	2415.1
20°	2362.6	2369.5	2373.6	2369.5	2368.1	2364.0	2358.4	2354.3	2359.8	2368.1	2369.5
22.5°	2306.0	2307.4	2317.0	2307.4	2300.5	2299.1	2293.5	2285.3	2293.5	2300.5	2301.8
25°	2235.6	2242.5	2238.3	2221.7	2221.7	2210.7	2207.9	2203.8	2205.2	2217.6	2223.1
27.5°	2145.8	2148.6	2137.5	2123.7	2111.3	2104.4	2094.7	2096.1	2096.1	2112.7	2118.2
30°	2047.8	2032.6	2022.9	2000.8	1991.1	1974.6	1971.8	1971.8	1969.1	1977.3	2002.2
32.5°	1930.4	1909.7	1894.5	1873.8	1857.2	1840.6	1832.4	1836.5	1835.1	1855.8	1864.1
35°	1802.0	1789.5	1757.8	1731.6	1721.9	1697.0	1697.0	1684.6	1692.9	1716.4	1726.0
37.5°	1666.7	1647.3	1621.1	1592.1	1585.2	1565.9	1558.9	1552.0	1570.0	1574.1	1583.8
40°	1528.6	1510.6	1485.8	1458.1	1458.1	1434.7	1434.7	1434.7	1436.1	1444.3	1462.3
42.5°	1397.4	1378.1	1356.0	1336.6	1333.9	1315.9	1315.9	1314.5	1317.3	1324.2	1340.8
45°	1270.4	1255.2	1231.7	1222.0	1223.4	1204.1	1208.2	1204.1	1209.6	1216.5	1222.0
47.5°	1153.0	1143.3	1133.7	1119.8	1115.7	1114.3	1107.4	1101.9	1111.6	1111.6	1119.8
50°	1043.9	1038.4	1032.9	1024.6	1026.0	1020.4	1012.1	1012.1	1019.0	1020.4	1026.0
52.5°	948.6	941.7	934.8	936.2	937.6	934.8	930.7	926.5	930.7	933.4	940.3
55°	853.3	847.8	854.7	852.0	854.7	852.0	849.2	846.4	853.3	849.2	856.1
57.5°	767.7	773.3	776.0	770.5	774.6	771.9	773.3	769.1	774.6	777.4	776.0
60°	689.0	697.3	693.2	694.6	700.1	697.3	691.8	695.9	701.5	702.8	701.5
62.5°	617.2	626.9	631.0	628.3	629.7	626.9	631.0	625.5	632.4	635.2	631.0
65°	552.3	563.4	566.1	566.1	566.1	563.4	567.5	568.9	571.7	571.7	568.9
67.5°	497.1	506.8	509.5	512.3	509.5	506.8	506.8	508.1	513.7	516.4	513.7
70°	447.4	457.1	458.4	458.4	459.8	462.6	457.1	459.8	464.0	465.3	464.0
72.5°	404.6	414.2	417.0	415.6	417.0	418.4	418.4	415.6	419.8	422.5	422.5
75°	370.1	375.6	378.3	378.3	379.7	381.1	381.1	379.7	382.5	383.9	385.2
77.5°	338.3	342.4	346.6	346.6	348.0	346.6	349.3	349.3	350.7	352.1	353.5
80°	306.5	312.1	314.8	316.2	319.0	320.4	320.4	320.4	321.7	323.1	323.1
82.5°	281.7	285.8	290.0	294.1	294.1	295.5	295.5	295.5	296.9	296.9	298.3
85°	256.8	262.4	266.5	269.3	270.6	272.0	272.0	273.4	273.4	273.4	274.8
87.5°	234.7	241.6	244.4	247.2	248.5	251.3	251.3	251.3	252.7	252.7	252.7
90°	219.6	226.5	229.2	232.0	233.4	234.7	234.7	236.1	236.1	237.5	237.5
92.5°	201.6	208.5	214.0	214.0	215.4	218.2	216.8	216.8	218.2	219.6	219.6
95°	187.8	193.3	197.5	198.8	200.2	200.2	200.2	201.6	200.2	201.6	201.6
97.5°	171.2	176.7	180.9	183.6	185.0	185.0	185.0	186.4	185.0	186.4	186.4
100°	157.4	162.9	167.1	168.5	171.2	171.2	171.2	171.2	171.2	171.2	172.6
102.5°	146.4	151.9	154.7	156.0	157.4	158.8	158.8	158.8	158.8	160.2	160.2
105°	135.3	140.8	143.6	145.0	146.4	147.7	147.7	147.7	149.1	149.1	147.7
107.5°	125.7	129.8	132.6	135.3	136.7	136.7	138.1	138.1	138.1	138.1	138.1
110°	116.0	120.1	124.3	127.0	127.0	128.4	128.4	129.8	129.8	128.4	129.8

TEST NUMBER: P1213519

CATALOG NUMBER: 4SNLED-LD5-71SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	106.3	111.8	114.6	117.4	118.8	120.1	120.1	120.1	120.1	120.1	120.1
115°	98.0	103.6	106.3	109.1	110.5	111.8	111.8	111.8	111.8	111.8	111.8
117.5°	91.1	96.7	99.4	100.8	102.2	103.6	104.9	104.9	104.9	104.9	103.6
120°	84.2	88.4	91.1	93.9	95.3	96.7	96.7	96.7	96.7	96.7	96.7
122.5°	77.3	81.5	84.2	87.0	88.4	89.8	89.8	89.8	89.8	89.8	89.8
125°	70.4	74.6	77.3	80.1	81.5	82.8	82.8	82.8	82.8	82.8	82.8
127.5°	63.5	67.7	71.8	73.2	74.6	75.9	75.9	75.9	77.3	75.9	75.9
130°	56.6	60.8	64.9	66.3	67.7	69.0	70.4	70.4	70.4	70.4	69.0
132.5°	51.1	55.2	58.0	59.4	62.1	62.1	63.5	63.5	63.5	63.5	62.1
135°	46.9	49.7	52.5	53.9	56.6	56.6	56.6	58.0	58.0	56.6	55.2
137.5°	41.4	44.2	46.9	48.3	49.7	51.1	51.1	52.5	51.1	51.1	51.1
140°	38.7	40.0	42.8	44.2	45.6	45.6	45.6	46.9	46.9	45.6	45.6
142.5°	33.1	35.9	38.7	40.0	41.4	41.4	41.4	41.4	41.4	41.4	41.4
145°	27.6	31.8	33.1	35.9	35.9	37.3	37.3	37.3	37.3	37.3	35.9
147.5°	23.5	26.2	30.4	31.8	31.8	33.1	33.1	33.1	33.1	33.1	31.8
150°	18.0	20.7	24.9	27.6	27.6	29.0	29.0	29.0	29.0	27.6	27.6
152.5°	15.2	18.0	19.3	22.1	23.5	23.5	23.5	24.9	23.5	23.5	23.5
155°	13.8	15.2	16.6	18.0	19.3	20.7	20.7	20.7	20.7	19.3	19.3
157.5°	11.0	12.4	13.8	15.2	16.6	18.0	18.0	18.0	18.0	18.0	16.6
160°	8.3	9.7	11.0	11.0	12.4	13.8	15.2	13.8	13.8	13.8	13.8
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: P1213519

CATALOG NUMBER: 4SNLED-LD5-71SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2510.3	2510.3	2510.3	2510.3	2510.3	2510.3	2510.3	2510.3	2510.3	2510.3	2510.3
2.5°	2504.8	2503.4	2507.6	2500.7	2480.0	2485.5	2482.7	2495.1	2497.9	2500.7	2513.1
5°	2504.8	2503.4	2506.2	2500.7	2478.6	2482.7	2480.0	2492.4	2495.1	2496.5	2509.0
7.5°	2499.3	2497.9	2502.1	2495.1	2471.7	2477.2	2473.1	2485.5	2486.9	2488.2	2499.3
10°	2488.2	2486.9	2489.6	2484.1	2460.6	2466.1	2460.6	2473.1	2473.1	2475.8	2484.1
12.5°	2471.7	2468.9	2474.4	2467.5	2441.3	2448.2	2445.4	2453.7	2455.1	2456.5	2464.8
15°	2448.2	2445.4	2449.6	2445.4	2422.0	2423.3	2419.2	2431.6	2433.0	2430.2	2438.5
17.5°	2413.7	2410.9	2419.2	2416.4	2393.0	2398.5	2397.1	2399.9	2404.0	2397.1	2408.2
20°	2370.9	2373.6	2376.4	2377.8	2359.8	2359.8	2358.4	2364.0	2368.1	2362.6	2370.9
22.5°	2307.4	2314.3	2322.5	2325.3	2312.9	2311.5	2319.8	2317.0	2321.2	2318.4	2323.9
25°	2227.3	2241.1	2249.4	2257.6	2250.7	2253.5	2265.9	2268.7	2268.7	2267.3	2272.8
27.5°	2127.8	2145.8	2161.0	2178.9	2172.0	2177.6	2198.3	2201.0	2206.6	2201.0	2212.1
30°	2009.1	2025.7	2054.7	2080.9	2083.7	2091.9	2120.9	2123.7	2138.9	2133.4	2137.5
32.5°	1890.3	1898.6	1931.8	1958.0	1974.6	1995.3	2027.0	2032.6	2053.3	2057.4	2057.4
35°	1741.2	1764.7	1795.1	1832.4	1853.1	1875.2	1918.0	1926.2	1956.6	1966.3	1977.3
37.5°	1615.6	1637.7	1657.0	1695.7	1732.9	1757.8	1792.3	1813.0	1844.8	1862.7	1876.5
40°	1481.6	1499.6	1520.3	1558.9	1590.7	1628.0	1662.5	1687.4	1727.4	1748.1	1766.1
42.5°	1354.6	1368.4	1390.5	1418.1	1451.2	1492.7	1525.8	1554.8	1597.6	1626.6	1647.3
45°	1241.4	1249.6	1269.0	1289.7	1318.7	1361.5	1393.3	1430.5	1465.1	1495.4	1520.3
47.5°	1135.0	1146.1	1155.7	1169.6	1195.8	1222.0	1259.3	1295.2	1329.7	1362.9	1387.7
50°	1037.0	1037.0	1052.2	1061.9	1079.8	1103.3	1132.3	1157.1	1199.9	1223.4	1255.2
52.5°	941.7	947.2	955.5	961.1	974.9	990.0	1013.5	1034.2	1070.1	1092.2	1122.6
55°	857.5	863.0	867.2	869.9	878.2	896.2	904.4	921.0	945.9	963.8	990.0
57.5°	777.4	780.2	784.3	785.7	787.1	798.1	805.0	809.2	834.0	852.0	874.1
60°	704.2	704.2	708.4	707.0	705.6	711.1	709.7	713.9	729.1	740.1	749.8
62.5°	635.2	635.2	636.6	633.8	632.4	632.4	626.9	631.0	635.2	636.6	643.5
65°	571.7	578.6	573.0	574.4	566.1	563.4	560.6	552.3	550.9	545.4	548.2
67.5°	515.0	520.6	515.0	515.0	508.1	502.6	495.7	481.9	477.8	466.7	464.0
70°	469.5	465.3	468.1	464.0	455.7	448.8	439.1	428.1	414.2	400.4	390.8
72.5°	425.3	425.3	422.5	418.4	414.2	400.4	389.4	377.0	360.4	342.4	328.6
75°	382.5	383.9	383.9	379.7	372.8	360.4	348.0	330.0	312.1	291.4	273.4
77.5°	352.1	352.1	352.1	345.2	338.3	327.3	312.1	292.7	273.4	248.5	227.8
80°	323.1	321.7	321.7	313.4	306.5	294.1	278.9	259.6	238.9	212.6	189.2
82.5°	299.6	298.3	295.5	288.6	278.9	266.5	251.3	230.6	208.5	185.0	156.0
85°	274.8	273.4	270.6	263.7	254.1	243.0	226.5	205.7	183.6	157.4	129.8
87.5°	252.7	251.3	247.2	243.0	232.0	219.6	203.0	183.6	160.2	135.3	107.7
90°	237.5	234.7	232.0	226.5	216.8	203.0	186.4	165.7	142.2	117.4	89.8
92.5°	219.6	218.2	214.0	208.5	200.2	186.4	169.8	150.5	127.0	103.6	77.3
95°	201.6	200.2	197.5	191.9	183.6	171.2	156.0	136.7	114.6	91.1	67.7
97.5°	185.0	185.0	180.9	176.7	167.1	157.4	142.2	124.3	103.6	82.8	60.8
100°	171.2	171.2	167.1	161.6	154.7	145.0	129.8	113.2	93.9	74.6	52.5
102.5°	158.8	157.4	154.7	149.1	142.2	132.6	118.8	103.6	85.6	66.3	46.9
105°	147.7	146.4	143.6	138.1	132.6	121.5	110.5	95.3	77.3	59.4	41.4
107.5°	136.7	135.3	133.9	128.4	121.5	111.8	100.8	85.6	70.4	53.9	37.3
110°	127.0	125.7	122.9	117.4	110.5	102.2	91.1	78.7	63.5	48.3	33.1



TEST NUMBER: P1213519

CATALOG NUMBER: 4SNLED-LD5-71SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	118.8	117.4	114.6	109.1	103.6	93.9	84.2	70.4	58.0	44.2	29.0
115°	110.5	109.1	106.3	100.8	93.9	85.6	75.9	64.9	51.1	38.7	26.2
117.5°	102.2	100.8	98.0	93.9	87.0	78.7	69.0	58.0	45.6	35.9	23.5
120°	95.3	92.5	89.8	85.6	78.7	71.8	62.1	52.5	41.4	31.8	20.7
122.5°	88.4	85.6	82.8	78.7	71.8	64.9	55.2	46.9	38.7	29.0	19.3
125°	80.1	78.7	75.9	71.8	64.9	58.0	51.1	42.8	34.5	26.2	16.6
127.5°	73.2	71.8	69.0	63.5	58.0	52.5	45.6	38.7	30.4	22.1	15.2
130°	67.7	64.9	62.1	58.0	53.9	48.3	41.4	34.5	27.6	19.3	13.8
132.5°	60.8	58.0	55.2	52.5	48.3	42.8	37.3	30.4	24.9	18.0	12.4
135°	55.2	52.5	49.7	46.9	42.8	38.7	33.1	27.6	22.1	16.6	11.0
137.5°	48.3	46.9	45.6	42.8	38.7	34.5	30.4	23.5	19.3	15.2	9.7
140°	44.2	42.8	41.4	37.3	34.5	30.4	26.2	20.7	16.6	12.4	8.3
142.5°	40.0	38.7	35.9	33.1	30.4	27.6	22.1	19.3	15.2	11.0	8.3
145°	34.5	33.1	31.8	29.0	26.2	22.1	19.3	16.6	13.8	9.7	6.9
147.5°	31.8	30.4	27.6	24.9	22.1	19.3	18.0	15.2	11.0	8.3	5.5
150°	26.2	24.9	23.5	20.7	19.3	18.0	15.2	12.4	9.7	6.9	5.5
152.5°	22.1	20.7	19.3	19.3	16.6	15.2	12.4	11.0	8.3	6.9	4.1
155°	19.3	19.3	18.0	16.6	13.8	12.4	11.0	8.3	6.9	5.5	4.1
157.5°	16.6	15.2	13.8	13.8	12.4	11.0	8.3	6.9	5.5	5.5	4.1
160°	13.8	12.4	12.4	11.0	9.7	8.3	6.9	6.9	5.5	4.1	4.1
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: P1213519

CATALOG NUMBER: 4SNLED-LD5-71SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2510.3	2510.3	2510.3	2510.3	2510.3	2510.3	2510.3	2510.3	2510.3	2510.3	2510.3
2.5°	2514.5	2499.3	2513.1	2531.0	2531.0	2528.3	2525.5	2531.0	2544.9	2539.3	2522.8
5°	2510.3	2495.1	2507.6	2525.5	2525.5	2521.4	2518.6	2522.8	2538.0	2531.0	2515.9
7.5°	2502.1	2488.2	2496.5	2513.1	2513.1	2509.0	2506.2	2511.7	2524.1	2517.2	2500.7
10°	2486.9	2471.7	2481.3	2496.5	2495.1	2492.4	2488.2	2495.1	2506.2	2496.5	2477.2
12.5°	2467.5	2452.3	2460.6	2474.4	2473.1	2467.5	2464.8	2468.9	2478.6	2473.1	2452.3
15°	2441.3	2426.1	2433.0	2446.8	2442.7	2438.5	2433.0	2434.4	2446.8	2437.2	2415.1
17.5°	2409.5	2393.0	2398.5	2410.9	2406.8	2402.6	2395.7	2397.1	2410.9	2397.1	2373.6
20°	2370.9	2352.9	2357.1	2372.3	2365.3	2358.4	2351.5	2351.5	2365.3	2350.2	2323.9
22.5°	2329.4	2311.5	2314.3	2325.3	2319.8	2307.4	2300.5	2304.6	2311.5	2292.2	2264.5
25°	2278.4	2254.9	2259.0	2270.1	2265.9	2249.4	2242.5	2245.2	2242.5	2227.3	2198.3
27.5°	2219.0	2194.1	2196.9	2203.8	2198.3	2183.1	2174.8	2176.2	2170.7	2151.3	2118.2
30°	2144.4	2132.0	2130.6	2134.8	2126.5	2111.3	2101.6	2098.9	2097.5	2069.9	2029.8
32.5°	2068.5	2057.4	2050.5	2056.0	2046.4	2031.2	2014.6	2014.6	2000.8	1974.6	1940.1
35°	1991.1	1973.2	1966.3	1970.4	1959.4	1940.1	1926.2	1919.3	1898.6	1865.5	1828.2
37.5°	1891.7	1879.3	1871.0	1875.2	1862.7	1848.9	1822.7	1815.8	1793.7	1748.1	1701.2
40°	1784.0	1774.4	1766.1	1770.2	1756.4	1735.7	1712.2	1701.2	1676.3	1625.2	1587.9
42.5°	1668.0	1663.9	1654.2	1669.4	1641.8	1621.1	1597.6	1579.7	1554.8	1499.6	1456.8
45°	1545.1	1554.8	1532.7	1536.9	1518.9	1501.0	1476.1	1449.9	1425.0	1372.5	1324.2
47.5°	1415.3	1422.2	1407.1	1409.8	1390.5	1373.9	1351.8	1318.7	1291.1	1245.5	1202.7
50°	1281.4	1278.6	1278.6	1275.9	1260.7	1240.0	1217.9	1187.5	1159.9	1118.5	1082.6
52.5°	1139.2	1144.7	1147.5	1154.4	1135.0	1122.6	1088.1	1061.9	1041.1	998.3	968.0
55°	1002.5	1021.8	1016.3	1019.0	997.0	987.3	959.7	939.0	908.6	883.7	864.4
57.5°	878.2	882.3	885.1	889.2	879.6	860.3	838.2	821.6	798.1	777.4	763.6
60°	758.1	758.1	759.5	766.4	756.7	740.1	723.6	711.1	694.6	682.1	673.8
62.5°	644.8	654.5	655.9	650.4	637.9	629.7	618.6	611.7	600.7	596.5	593.8
65°	539.9	539.9	539.9	542.7	535.8	530.2	523.3	522.0	526.1	520.6	523.3
67.5°	451.5	447.4	444.6	446.0	443.2	440.5	439.1	443.2	451.5	451.5	458.4
70°	375.6	367.3	361.8	361.8	361.8	363.2	367.3	375.6	389.4	394.9	404.6
72.5°	313.4	295.5	287.2	287.2	288.6	294.1	306.5	321.7	334.2	345.2	357.6
75°	254.1	236.1	223.7	222.3	225.1	233.4	251.3	265.1	285.8	301.0	316.2
77.5°	205.7	183.6	168.5	167.1	171.2	183.6	205.7	223.7	247.2	263.7	280.3
80°	164.3	139.5	127.0	118.8	125.7	140.8	165.7	187.8	209.9	232.0	252.7
82.5°	131.2	107.7	88.4	80.1	88.4	109.1	132.6	158.8	180.9	204.4	225.1
85°	103.6	78.7	56.6	48.3	58.0	80.1	106.3	132.6	157.4	180.9	201.6
87.5°	81.5	56.6	34.5	23.5	35.9	59.4	84.2	110.5	136.7	160.2	180.9
90°	63.5	40.0	19.3	2.8	20.7	42.8	67.7	92.5	118.8	142.2	162.9
92.5°	53.9	30.4	11.0	0.0	12.4	31.8	55.2	80.1	103.6	127.0	147.7
95°	45.6	24.9	8.3	0.0	8.3	24.9	45.6	67.7	91.1	114.6	135.3
97.5°	38.7	19.3	5.5	0.0	5.5	19.3	37.3	59.4	80.1	102.2	121.5
100°	33.1	16.6	4.1	0.0	4.1	15.2	31.8	51.1	71.8	92.5	110.5
102.5°	29.0	13.8	2.8	0.0	2.8	12.4	26.2	44.2	62.1	81.5	99.4
105°	24.9	11.0	2.8	0.0	1.4	9.7	22.1	38.7	55.2	73.2	89.8
107.5°	22.1	9.7	2.8	0.0	1.4	8.3	19.3	33.1	49.7	64.9	80.1
110°	19.3	8.3	2.8	0.0	1.4	5.5	16.6	29.0	42.8	58.0	73.2

TEST NUMBER: P1213519

CATALOG NUMBER: 4SNLED-LD5-71SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	16.6	6.9	1.4	0.0	0.0	4.1	13.8	24.9	37.3	52.5	64.9
115°	15.2	6.9	1.4	0.0	0.0	2.8	11.0	22.1	33.1	46.9	58.0
117.5°	13.8	5.5	1.4	0.0	1.4	2.8	9.7	19.3	29.0	40.0	52.5
120°	12.4	5.5	1.4	0.0	1.4	1.4	6.9	16.6	24.9	35.9	45.6
122.5°	11.0	5.5	1.4	0.0	1.4	1.4	5.5	13.8	22.1	31.8	40.0
125°	9.7	4.1	2.8	1.4	1.4	1.4	4.1	11.0	19.3	26.2	35.9
127.5°	9.7	4.1	2.8	1.4	1.4	1.4	2.8	9.7	15.2	23.5	31.8
130°	8.3	4.1	2.8	1.4	1.4	1.4	1.4	6.9	13.8	19.3	26.2
132.5°	6.9	4.1	2.8	1.4	1.4	1.4	1.4	4.1	9.7	16.6	22.1
135°	6.9	4.1	2.8	1.4	1.4	1.4	1.4	2.8	6.9	12.4	18.0
137.5°	5.5	2.8	2.8	1.4	1.4	1.4	1.4	1.4	5.5	9.7	13.8
140°	5.5	2.8	2.8	1.4	1.4	1.4	1.4	1.4	4.1	6.9	11.0
142.5°	4.1	2.8	2.8	1.4	1.4	1.4	1.4	1.4	2.8	5.5	8.3
145°	4.1	2.8	2.8	1.4	1.4	1.4	1.4	1.4	1.4	2.8	5.5
147.5°	4.1	4.1	2.8	1.4	1.4	1.4	1.4	1.4	1.4	2.8	4.1
150°	4.1	2.8	2.8	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8
152.5°	4.1	2.8	2.8	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8
155°	4.1	2.8	2.8	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8
157.5°	4.1	2.8	2.8	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8
160°	4.1	2.8	2.8	1.4	2.8	1.4	2.8	2.8	2.8	2.8	2.8
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: P1213519

CATALOG NUMBER: 4SNLED-LD5-71SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2510.3	2510.3	2510.3	2510.3	2510.3	2510.3	2510.3	2510.3	2510.3	2510.3	2510.3
2.5°	2517.2	2491.0	2504.8	2500.7	2506.2	2517.2	2515.9	2513.1	2513.1	2509.0	2503.4
5°	2509.0	2484.1	2496.5	2489.6	2496.5	2506.2	2504.8	2500.7	2503.4	2496.5	2489.6
7.5°	2492.4	2470.3	2481.3	2475.8	2481.3	2491.0	2486.9	2485.5	2488.2	2477.2	2473.1
10°	2473.1	2448.2	2460.6	2453.7	2460.6	2467.5	2464.8	2459.2	2464.8	2453.7	2449.6
12.5°	2442.7	2422.0	2430.2	2427.5	2431.6	2438.5	2433.0	2428.9	2431.6	2422.0	2413.7
15°	2409.5	2388.8	2395.7	2391.6	2394.3	2402.6	2393.0	2391.6	2388.8	2379.2	2376.4
17.5°	2366.7	2347.4	2354.3	2347.4	2351.5	2348.8	2347.4	2340.5	2340.5	2329.4	2321.2
20°	2314.3	2297.7	2293.5	2288.0	2293.5	2288.0	2279.7	2274.2	2272.8	2261.8	2254.9
22.5°	2253.5	2234.2	2236.9	2221.7	2223.1	2214.8	2201.0	2195.5	2190.0	2177.6	2167.9
25°	2180.3	2161.0	2147.2	2137.5	2125.1	2123.7	2105.8	2091.9	2090.6	2075.4	2074.0
27.5°	2097.5	2075.4	2064.3	2040.9	2025.7	2013.2	1998.1	1984.2	1977.3	1960.8	1949.7
30°	2002.2	1977.3	1949.7	1933.2	1909.7	1900.0	1873.8	1857.2	1851.7	1833.7	1825.4
32.5°	1894.5	1868.3	1846.2	1814.4	1788.2	1774.4	1748.1	1731.6	1724.6	1705.3	1694.3
35°	1777.1	1748.1	1721.9	1691.5	1670.8	1647.3	1615.6	1599.0	1583.8	1576.9	1568.6
37.5°	1654.2	1622.5	1592.1	1561.7	1543.8	1516.1	1488.5	1477.5	1459.5	1452.6	1444.3
40°	1527.2	1495.4	1466.4	1437.4	1416.7	1391.9	1367.0	1362.9	1343.5	1336.6	1331.1
42.5°	1401.5	1368.4	1335.3	1314.5	1299.4	1274.5	1257.9	1253.8	1237.2	1233.1	1233.1
45°	1288.3	1246.9	1219.3	1201.3	1188.9	1168.2	1154.4	1151.6	1137.8	1135.0	1135.0
47.5°	1166.8	1128.1	1107.4	1096.4	1085.3	1070.1	1061.9	1061.9	1048.0	1045.3	1043.9
50°	1053.6	1017.7	1002.5	991.4	990.0	979.0	972.1	969.3	969.3	959.7	961.1
52.5°	945.9	927.9	915.5	908.6	900.3	893.4	887.9	887.9	883.7	876.8	879.6
55°	846.4	825.7	827.1	821.6	817.4	813.3	814.7	806.4	805.0	799.5	803.6
57.5°	747.0	747.0	744.3	740.1	733.2	736.0	736.0	736.0	729.1	724.9	729.1
60°	662.8	666.9	660.0	664.2	661.4	662.8	660.0	660.0	655.9	654.5	655.9
62.5°	588.2	595.1	592.4	597.9	595.1	596.5	599.3	593.8	591.0	588.2	591.0
65°	522.0	530.2	528.9	533.0	534.4	535.8	537.1	534.4	531.6	528.9	527.5
67.5°	464.0	472.2	477.8	479.1	480.5	484.7	483.3	480.5	477.8	473.6	472.2
70°	411.5	422.5	429.4	432.2	437.7	435.0	435.0	433.6	430.8	426.7	425.3
72.5°	367.3	379.7	386.6	389.4	394.9	394.9	393.5	392.2	389.4	385.2	383.9
75°	328.6	339.7	349.3	354.9	359.0	359.0	357.6	356.3	353.5	350.7	349.3
77.5°	298.3	307.9	316.2	323.1	325.9	327.3	325.9	323.1	323.1	321.7	320.4
80°	267.9	278.9	287.2	294.1	298.3	298.3	296.9	298.3	295.5	294.1	292.7
82.5°	241.6	254.1	263.7	270.6	273.4	274.8	273.4	274.8	272.0	272.0	272.0
85°	218.2	230.6	241.6	247.2	251.3	252.7	252.7	252.7	251.3	251.3	251.3
87.5°	198.8	211.3	222.3	227.8	232.0	233.4	233.4	234.7	232.0	232.0	232.0
90°	180.9	193.3	204.4	209.9	214.0	216.8	216.8	218.2	216.8	215.4	215.4
92.5°	164.3	178.1	189.2	194.7	198.8	203.0	203.0	204.4	201.6	201.6	201.6
95°	150.5	164.3	174.0	180.9	185.0	187.8	189.2	189.2	187.8	187.8	187.8
97.5°	138.1	150.5	160.2	167.1	171.2	172.6	174.0	175.4	174.0	174.0	174.0
100°	125.7	138.1	147.7	153.3	158.8	160.2	161.6	162.9	162.9	161.6	161.6
102.5°	114.6	127.0	135.3	142.2	146.4	149.1	150.5	150.5	150.5	150.5	150.5
105°	103.6	116.0	124.3	131.2	135.3	138.1	139.5	140.8	140.8	139.5	139.5
107.5°	93.9	104.9	114.6	120.1	125.7	128.4	129.8	129.8	131.2	129.8	129.8
110°	84.2	96.7	104.9	110.5	116.0	118.8	120.1	121.5	121.5	121.5	121.5

TEST NUMBER: P1213519

CATALOG NUMBER: 4SNLED-LD5-71SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	77.3	87.0	95.3	100.8	106.3	109.1	110.5	111.8	113.2	111.8	111.8
115°	69.0	78.7	87.0	92.5	96.7	99.4	102.2	103.6	103.6	104.9	103.6
117.5°	62.1	70.4	78.7	84.2	88.4	92.5	93.9	95.3	96.7	95.3	95.3
120°	55.2	63.5	70.4	75.9	80.1	84.2	85.6	87.0	88.4	87.0	87.0
122.5°	49.7	56.6	63.5	69.0	73.2	75.9	78.7	78.7	80.1	80.1	80.1
125°	44.2	51.1	56.6	62.1	66.3	69.0	70.4	71.8	71.8	73.2	73.2
127.5°	38.7	44.2	51.1	55.2	59.4	62.1	63.5	64.9	64.9	66.3	66.3
130°	33.1	38.7	44.2	48.3	52.5	55.2	56.6	58.0	59.4	59.4	59.4
132.5°	29.0	34.5	38.7	42.8	45.6	48.3	51.1	52.5	52.5	52.5	52.5
135°	23.5	29.0	33.1	37.3	40.0	42.8	44.2	46.9	46.9	46.9	46.9
137.5°	19.3	24.9	29.0	31.8	34.5	37.3	38.7	40.0	41.4	41.4	41.4
140°	15.2	19.3	23.5	27.6	30.4	31.8	34.5	34.5	35.9	35.9	35.9
142.5°	11.0	15.2	18.0	22.1	24.9	27.6	29.0	30.4	30.4	30.4	30.4
145°	8.3	11.0	13.8	16.6	20.7	22.1	23.5	24.9	26.2	26.2	26.2
147.5°	5.5	8.3	9.7	12.4	15.2	18.0	19.3	20.7	22.1	22.1	22.1
150°	4.1	5.5	8.3	9.7	11.0	13.8	16.6	16.6	18.0	18.0	16.6
152.5°	2.8	4.1	5.5	6.9	8.3	9.7	12.4	12.4	13.8	13.8	13.8
155°	2.8	2.8	2.8	4.1	5.5	6.9	8.3	9.7	9.7	9.7	9.7
157.5°	2.8	2.8	2.8	2.8	2.8	4.1	5.5	6.9	6.9	6.9	6.9
160°	2.8	2.8	1.4	1.4	2.8	2.8	2.8	2.8	4.1	4.1	4.1
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: P1213519

CATALOG NUMBER: 4SNLED-LD5-71SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2510.3	2510.3	2510.3	2510.3	2510.3	2510.3	2510.3	2510.3	2510.3	2510.3	2510.3
2.5°	2507.6	2510.3	2510.3	2507.6	2506.2	2511.7	2504.8	2478.6	2486.9	2489.6	2497.9
5°	2495.1	2497.9	2497.9	2497.9	2495.1	2500.7	2493.8	2467.5	2477.2	2481.3	2486.9
7.5°	2477.2	2478.6	2481.3	2480.0	2477.2	2485.5	2478.6	2452.3	2459.2	2466.1	2473.1
10°	2453.7	2453.7	2455.1	2457.9	2455.1	2462.0	2455.1	2431.6	2438.5	2442.7	2451.0
12.5°	2422.0	2424.7	2426.1	2424.7	2423.3	2428.9	2426.1	2404.0	2406.8	2415.1	2423.3
15°	2379.2	2379.2	2386.1	2383.3	2383.3	2388.8	2391.6	2366.7	2370.9	2383.3	2391.6
17.5°	2326.7	2328.1	2333.6	2336.4	2335.0	2344.6	2346.0	2326.7	2325.3	2340.5	2348.8
20°	2259.0	2261.8	2268.7	2274.2	2274.2	2285.3	2289.4	2277.0	2278.4	2294.9	2297.7
22.5°	2176.2	2176.2	2188.6	2196.9	2203.8	2210.7	2223.1	2212.1	2212.1	2234.2	2246.6
25°	2074.0	2083.7	2087.8	2104.4	2114.0	2133.4	2144.4	2145.8	2147.2	2167.9	2176.2
27.5°	1960.8	1963.5	1976.0	1995.3	2006.3	2024.3	2045.0	2049.1	2056.0	2083.7	2096.1
30°	1832.4	1840.6	1846.2	1873.8	1889.0	1912.4	1938.7	1948.3	1953.9	1991.1	2006.3
32.5°	1701.2	1703.9	1727.4	1742.6	1760.5	1785.4	1815.8	1833.7	1844.8	1883.4	1905.5
35°	1570.0	1575.5	1594.9	1614.2	1632.1	1657.0	1688.7	1713.6	1732.9	1767.5	1796.5
37.5°	1449.9	1463.7	1467.8	1487.1	1501.0	1525.8	1547.9	1583.8	1603.1	1639.0	1676.3
40°	1342.2	1346.3	1349.1	1368.4	1378.1	1401.5	1433.3	1456.8	1483.0	1509.2	1553.4
42.5°	1235.8	1238.6	1242.7	1253.8	1264.8	1281.4	1304.9	1328.4	1356.0	1394.6	1423.6
45°	1137.8	1140.6	1143.3	1150.2	1159.9	1175.1	1190.3	1206.8	1234.5	1267.6	1298.0
47.5°	1046.7	1052.2	1052.2	1053.6	1060.5	1072.9	1083.9	1104.7	1119.8	1137.8	1172.3
50°	959.7	963.8	965.2	965.2	969.3	977.6	980.4	994.2	1008.0	1024.6	1049.4
52.5°	878.2	878.2	876.8	882.3	882.3	887.9	889.2	897.5	907.2	925.2	936.2
55°	800.9	800.9	805.0	802.3	802.3	805.0	803.6	805.0	813.3	824.4	834.0
57.5°	726.3	724.9	729.1	726.3	724.9	727.7	730.5	724.9	726.3	737.4	737.4
60°	651.7	653.1	657.3	654.5	654.5	654.5	651.7	649.0	646.2	653.1	655.9
62.5°	592.4	588.2	592.4	588.2	591.0	589.6	586.8	581.3	582.7	579.9	577.2
65°	530.2	530.2	531.6	527.5	530.2	530.2	526.1	524.7	516.4	513.7	506.8
67.5°	476.4	476.4	477.8	475.0	475.0	476.4	472.2	468.1	459.8	455.7	446.0
70°	429.4	429.4	429.4	428.1	428.1	428.1	425.3	419.8	411.5	404.6	392.2
72.5°	386.6	388.0	386.6	386.6	390.8	386.6	382.5	377.0	370.1	356.3	345.2
75°	352.1	353.5	352.1	352.1	352.1	350.7	349.3	341.1	332.8	321.7	305.2
77.5°	321.7	321.7	323.1	321.7	321.7	320.4	316.2	309.3	299.6	290.0	270.6
80°	292.7	294.1	295.5	296.9	294.1	292.7	288.6	283.1	270.6	259.6	240.3
82.5°	272.0	270.6	272.0	273.4	270.6	269.3	265.1	258.2	248.5	233.4	214.0
85°	251.3	249.9	249.9	251.3	249.9	247.2	243.0	236.1	226.5	211.3	191.9
87.5°	230.6	232.0	233.4	232.0	230.6	227.8	223.7	216.8	205.7	193.3	172.6
90°	215.4	215.4	215.4	215.4	214.0	211.3	207.1	198.8	189.2	174.0	156.0
92.5°	201.6	201.6	201.6	201.6	200.2	196.1	191.9	185.0	174.0	158.8	142.2
95°	187.8	189.2	187.8	187.8	185.0	183.6	176.7	169.8	160.2	145.0	127.0
97.5°	172.6	174.0	172.6	172.6	171.2	168.5	164.3	156.0	146.4	132.6	116.0
100°	161.6	161.6	160.2	160.2	158.8	156.0	150.5	143.6	133.9	120.1	103.6
102.5°	149.1	150.5	149.1	149.1	146.4	143.6	139.5	132.6	122.9	109.1	93.9
105°	139.5	139.5	138.1	138.1	135.3	132.6	128.4	120.1	111.8	99.4	84.2
107.5°	129.8	129.8	128.4	128.4	125.7	122.9	117.4	110.5	102.2	89.8	75.9
110°	120.1	120.1	120.1	118.8	116.0	111.8	107.7	100.8	92.5	81.5	67.7

TEST NUMBER: P1213519

CATALOG NUMBER: 4SNLED-LD5-71SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	113.2	111.8	110.5	109.1	106.3	103.6	98.0	91.1	82.8	73.2	60.8
115°	103.6	103.6	102.2	100.8	98.0	93.9	89.8	84.2	75.9	64.9	53.9
117.5°	95.3	95.3	93.9	92.5	89.8	85.6	81.5	75.9	67.7	58.0	48.3
120°	87.0	87.0	85.6	84.2	81.5	77.3	74.6	67.7	60.8	51.1	42.8
122.5°	80.1	78.7	78.7	75.9	74.6	70.4	66.3	60.8	53.9	45.6	37.3
125°	71.8	71.8	70.4	69.0	67.7	63.5	59.4	53.9	46.9	40.0	33.1
127.5°	64.9	64.9	63.5	62.1	60.8	56.6	52.5	48.3	41.4	34.5	27.6
130°	58.0	58.0	56.6	55.2	53.9	49.7	46.9	41.4	35.9	30.4	23.5
132.5°	52.5	52.5	51.1	49.7	46.9	44.2	41.4	35.9	31.8	26.2	20.7
135°	46.9	45.6	45.6	44.2	41.4	38.7	35.9	31.8	26.2	22.1	16.6
137.5°	41.4	40.0	38.7	37.3	35.9	33.1	30.4	27.6	23.5	18.0	13.8
140°	35.9	34.5	34.5	33.1	30.4	29.0	26.2	22.1	19.3	15.2	11.0
142.5°	30.4	30.4	29.0	27.6	26.2	24.9	22.1	19.3	15.2	12.4	8.3
145°	26.2	24.9	24.9	23.5	22.1	19.3	18.0	15.2	12.4	9.7	6.9
147.5°	20.7	20.7	20.7	19.3	18.0	16.6	15.2	12.4	9.7	6.9	4.1
150°	16.6	16.6	16.6	15.2	13.8	12.4	11.0	9.7	6.9	4.1	2.8
152.5°	13.8	13.8	12.4	12.4	11.0	9.7	8.3	6.9	4.1	2.8	2.8
155°	9.7	9.7	9.7	8.3	8.3	6.9	5.5	4.1	2.8	2.8	2.8
157.5°	6.9	6.9	6.9	5.5	5.5	4.1	4.1	2.8	2.8	2.8	2.8
160°	4.1	4.1	4.1	4.1	2.8	2.8	2.8	2.8	2.8	2.8	2.8
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):

	330°	335°	340°	345°	350°	355°	360°
0°	2510.3	2510.3	2510.3	2510.3	2510.3	2510.3	2510.3
2.5°	2493.8	2492.4	2503.4	2503.4	2491.0	2510.3	2531.0
5°	2485.5	2484.1	2495.1	2495.1	2484.1	2503.4	2525.5
7.5°	2468.9	2470.3	2481.3	2484.1	2470.3	2488.2	2511.7
10°	2451.0	2449.6	2462.0	2464.8	2453.7	2470.3	2492.4
12.5°	2422.0	2422.0	2434.4	2438.5	2427.5	2446.8	2467.5
15°	2391.6	2391.6	2399.9	2406.8	2397.1	2415.1	2435.8
17.5°	2352.9	2351.5	2359.8	2368.1	2358.4	2377.8	2399.9
20°	2303.2	2303.2	2312.9	2322.5	2315.6	2333.6	2358.4
22.5°	2250.7	2245.2	2261.8	2268.7	2264.5	2282.5	2307.4
25°	2184.5	2183.1	2199.7	2209.3	2203.8	2223.1	2245.2
27.5°	2112.7	2111.3	2127.8	2140.3	2137.5	2155.5	2180.3
30°	2025.7	2032.6	2047.8	2068.5	2061.6	2080.9	2107.1
32.5°	1934.5	1941.4	1959.4	1981.5	1982.9	1998.1	2024.3
35°	1825.4	1843.4	1855.8	1884.8	1890.3	1905.5	1933.2
37.5°	1710.8	1731.6	1757.8	1779.9	1790.9	1803.4	1835.1
40°	1582.4	1612.8	1641.8	1668.0	1681.8	1694.3	1724.6
42.5°	1466.4	1489.9	1517.5	1543.8	1568.6	1579.7	1611.4
45°	1335.3	1362.9	1387.7	1419.5	1444.3	1456.8	1488.5
47.5°	1206.8	1234.5	1267.6	1289.7	1315.9	1328.4	1358.7
50°	1083.9	1108.8	1136.4	1162.7	1184.7	1195.8	1222.0
52.5°	962.4	988.7	1014.9	1031.5	1054.9	1063.2	1085.3
55°	854.7	872.7	896.2	905.8	929.3	934.8	950.0
57.5°	751.2	763.6	771.9	788.4	805.0	817.4	835.4
60°	657.3	662.8	668.3	678.0	691.8	695.9	702.8
62.5°	573.0	571.7	582.7	585.5	586.8	600.7	593.8
65°	498.5	499.9	490.2	486.0	491.6	495.7	493.0
67.5°	436.3	428.1	419.8	410.1	401.8	406.0	401.8
70°	375.6	368.7	354.9	341.1	335.5	327.3	323.1
72.5°	327.3	310.7	296.9	278.9	269.3	259.6	252.7
75°	290.0	266.5	247.2	227.8	214.0	200.2	197.5
77.5°	251.3	229.2	207.1	186.4	165.7	150.5	145.0
80°	220.9	200.2	174.0	149.1	127.0	107.7	100.8
82.5°	193.3	171.2	145.0	118.8	93.9	73.2	64.9
85°	169.8	146.4	120.1	93.9	69.0	46.9	35.9
87.5°	151.9	125.7	99.4	74.6	48.3	26.2	13.8
90°	135.3	110.5	85.6	59.4	34.5	13.8	0.0
92.5°	120.1	96.7	71.8	48.3	26.2	8.3	1.4
95°	106.3	85.6	60.8	38.7	19.3	5.5	1.4
97.5°	95.3	74.6	52.5	31.8	15.2	4.1	1.4
100°	85.6	64.9	45.6	26.2	12.4	2.8	1.4
102.5°	75.9	58.0	38.7	22.1	9.7	1.4	1.4
105°	67.7	51.1	33.1	19.3	8.3	1.4	1.4
107.5°	60.8	45.6	29.0	16.6	5.5	1.4	1.4
110°	53.9	38.7	24.9	13.8	4.1	1.4	1.4

TEST NUMBER: P1213519

CATALOG NUMBER: 4SNLED-LD5-71SL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	48.3	34.5	22.1	11.0	2.8	1.4	1.4
115°	42.8	30.4	19.3	9.7	2.8	1.4	1.4
117.5°	37.3	26.2	16.6	6.9	1.4	1.4	1.4
120°	33.1	23.5	13.8	5.5	1.4	1.4	1.4
122.5°	29.0	19.3	11.0	4.1	1.4	1.4	1.4
125°	24.9	16.6	9.7	2.8	1.4	1.4	1.4
127.5°	20.7	13.8	6.9	2.8	1.4	1.4	1.4
130°	18.0	11.0	5.5	1.4	1.4	1.4	1.4
132.5°	15.2	8.3	4.1	1.4	1.4	1.4	1.4
135°	12.4	6.9	2.8	1.4	1.4	1.4	1.4
137.5°	9.7	5.5	2.8	1.4	1.4	1.4	1.4
140°	6.9	4.1	1.4	1.4	1.4	1.4	1.4
142.5°	5.5	2.8	1.4	1.4	1.4	1.4	1.4
145°	4.1	2.8	1.4	1.4	1.4	1.4	1.4
147.5°	2.8	2.8	2.8	2.8	1.4	1.4	1.4
150°	2.8	2.8	1.4	1.4	2.8	1.4	1.4
152.5°	2.8	1.4	1.4	1.4	2.8	1.4	1.4
155°	2.8	2.8	2.8	2.8	2.8	2.8	1.4
157.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8
160°	2.8	2.8	2.8	2.8	2.8	2.8	2.8
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)