

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: P1213524

Luminaire Tested: 4SNLED-LD5-74HL-LN-UNV-L935-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213524
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-LD5-74HL-LN-UNV-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

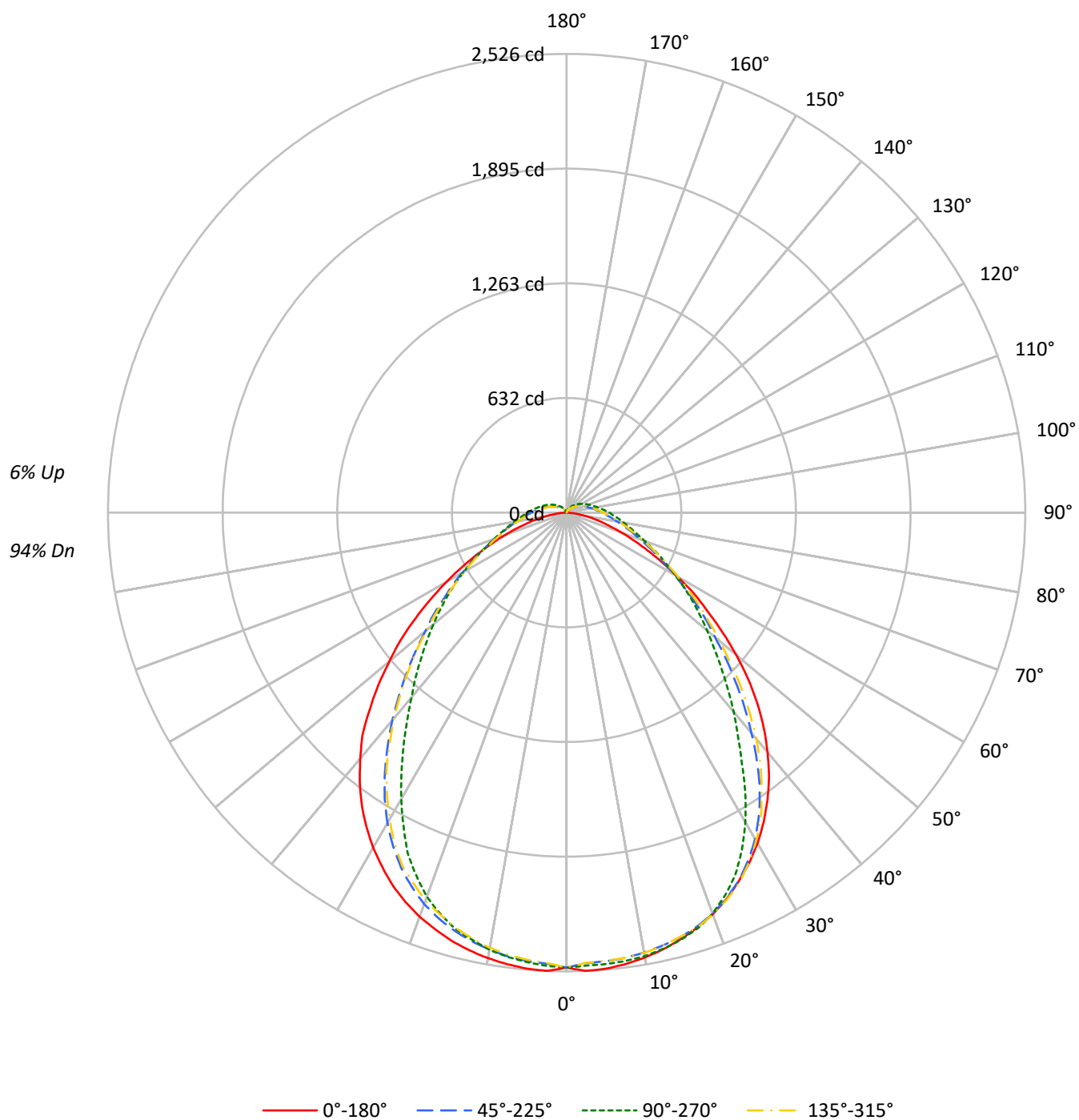
Lumens per Lamp: N/A
Luminaire Lumens: 6340.0 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 62
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°	20245	20245	20245	20245
5°	20389	19600	20389	19513
10°	20298	19079	20332	18814
15°	20167	18509	20259	18027
20°	20012	17776	20130	17026
25°	19691	16689	19909	15706
30°	19274	15091	19527	13971
35°	18624	13133	18983	12229
40°	17692	11485	18160	10657
45°	16462	9984	16996	9412
50°	14781	8774	15433	8331
55°	12787	7747	13716	7356
60°	10754	6802	11726	6410
65°	8815	6014	9706	5576
70°	7017	5338	7855	4936
75°	5511	4927	6205	4533
80°	3977	4755	4684	4345
85°	2446	4781	3293	4395

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 180°

Vertical Angle: 45°

Luminance: 16996 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.5	3.7
10°-20°	681.0	10.7
20°-30°	1009.3	15.9
30°-40°	1121.3	17.7
40°-50°	1016.5	16.0
50°-60°	787.7	12.4
60°-70°	534.9	8.4
70°-80°	340.3	5.4
80°-90°	217.6	3.4
90°-100°	146.7	2.3
100°-110°	100.5	1.6
110°-120°	67.0	1.1
120°-130°	41.7	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°	1927.9	30.4
0°-40°	3049.2	48.1
0°-60°	4853.3	76.6
0°-90°	5946.1	93.8
90°-120°	314.2	5.0
90°-150°	389.7	6.1
90°-180°	394.0	6.2
0°-180°	6340.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2505	2505	2505	2505	2505	
5°	2520	2496	2520	2484	2520	239
15°	2431	2435	2442	2372	2431	686
25°	2241	2199	2265	2070	2241	1032
35°	1929	1681	1966	1565	1929	1203
45°	1486	1202	1534	1133	1486	1141
55°	948	845	1017	802	948	854
65°	492	568	542	526	492	493
75°	197	379	222	349	197	212
85°	36	273	48	251	36	43
90°	0	236	3	215	0	2
95°	1	201	0	187	1	1
105°	1	147	0	139	1	1
115°	1	112	0	103	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	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2505.2	2505.2	2505.2	2505.2	2505.2	2505.2	2505.2	2505.2	2505.2	2505.2	2505.2
2.5°	2525.9	2523.1	2520.4	2516.2	2520.4	2531.4	2524.5	2509.3	2506.6	2481.8	2492.8
5°	2520.4	2516.2	2513.5	2509.3	2514.8	2528.6	2521.7	2508.0	2503.8	2480.4	2492.8
7.5°	2506.6	2503.8	2499.7	2499.7	2505.2	2519.0	2513.5	2498.3	2495.6	2472.1	2485.9
10°	2487.3	2485.9	2483.2	2483.2	2488.7	2505.2	2498.3	2484.5	2481.8	2459.7	2474.9
12.5°	2462.5	2463.9	2459.7	2459.7	2468.0	2484.5	2479.0	2463.9	2461.1	2441.8	2457.0
15°	2430.8	2432.2	2429.4	2430.8	2439.1	2458.3	2451.5	2437.7	2434.9	2419.8	2432.2
17.5°	2395.0	2396.3	2396.3	2395.0	2404.6	2423.9	2418.4	2406.0	2401.8	2389.4	2404.6
20°	2353.6	2353.6	2353.6	2353.6	2364.6	2383.9	2377.0	2367.4	2359.1	2349.5	2361.9
22.5°	2302.6	2301.3	2302.6	2306.8	2317.8	2332.9	2328.8	2317.8	2305.4	2299.9	2309.5
25°	2240.6	2244.8	2246.1	2250.3	2264.0	2276.5	2272.3	2261.3	2242.0	2237.9	2240.6
27.5°	2175.9	2178.6	2182.7	2181.4	2200.7	2213.1	2204.8	2195.1	2167.6	2163.5	2160.7
30°	2102.8	2107.0	2109.7	2108.3	2123.5	2137.3	2129.0	2116.6	2079.4	2076.6	2054.6
32.5°	2020.1	2024.3	2027.0	2027.0	2049.1	2054.6	2039.4	2021.5	1981.6	1971.9	1952.6
35°	1929.2	1933.3	1934.7	1934.7	1956.8	1955.4	1936.1	1911.3	1867.2	1854.8	1821.7
37.5°	1831.4	1834.1	1835.5	1843.8	1853.4	1845.1	1820.3	1788.6	1755.6	1721.1	1685.3
40°	1721.1	1725.3	1728.0	1733.5	1743.2	1733.5	1697.7	1659.1	1623.3	1584.7	1548.9
42.5°	1608.1	1620.5	1617.8	1616.4	1621.9	1595.7	1568.2	1524.1	1488.2	1448.3	1412.4
45°	1485.5	1484.1	1491.0	1493.7	1492.4	1470.3	1431.7	1391.8	1355.9	1314.6	1284.3
47.5°	1355.9	1354.6	1360.1	1362.8	1354.6	1331.1	1300.8	1255.4	1225.0	1189.2	1165.8
50°	1219.5	1219.5	1227.8	1219.5	1215.4	1192.0	1167.2	1121.7	1098.3	1066.6	1052.8
52.5°	1083.1	1095.5	1087.2	1084.5	1080.3	1056.9	1037.6	1000.4	981.1	967.4	950.8
55°	948.1	961.8	956.3	952.2	950.8	931.5	913.6	886.1	873.7	864.0	854.4
57.5°	833.7	832.3	829.6	825.4	826.8	811.6	793.7	778.6	773.1	768.9	771.7
60°	701.4	712.4	708.3	709.7	711.0	708.3	693.1	683.5	684.9	686.2	690.4
62.5°	592.5	602.2	609.1	603.6	606.3	610.5	602.2	599.4	604.9	610.5	616.0
65°	491.9	501.6	508.5	507.1	515.4	523.6	522.3	525.0	537.4	544.3	551.2
67.5°	401.0	410.6	420.3	421.7	434.1	446.5	452.0	461.6	475.4	485.1	493.3
70°	322.5	330.7	341.7	348.6	365.2	381.7	391.4	410.6	418.9	432.7	438.2
72.5°	252.2	259.1	274.2	290.8	304.5	325.2	344.5	361.0	373.4	388.6	395.5
75°	197.1	199.8	216.3	235.6	254.9	278.4	299.0	316.9	333.5	348.6	359.7
77.5°	144.7	148.8	164.0	190.2	212.2	237.0	260.4	279.7	297.6	312.8	328.0
80°	100.6	108.9	125.4	151.6	176.4	203.9	226.0	248.0	267.3	282.5	297.6
82.5°	64.8	71.7	95.1	121.3	147.4	175.0	198.4	220.5	241.1	257.7	271.5
85°	35.8	45.5	68.9	96.5	122.6	150.2	175.0	197.1	217.7	232.9	246.7
87.5°	13.8	27.6	49.6	75.8	102.0	128.2	154.3	175.0	195.7	212.2	224.6
90°	0.0	16.5	37.2	63.4	89.6	115.8	140.6	162.6	181.9	197.1	210.8
92.5°	1.4	11.0	28.9	51.0	75.8	100.6	124.0	146.1	165.4	180.5	192.9
95°	1.4	8.3	23.4	44.1	66.1	89.6	111.6	132.3	150.2	165.4	177.8
97.5°	1.4	5.5	19.3	38.6	57.9	81.3	102.0	121.3	137.8	153.0	162.6
100°	1.4	5.5	16.5	33.1	52.4	73.0	92.3	111.6	126.8	139.2	150.2
102.5°	1.4	4.1	13.8	28.9	46.9	64.8	84.1	102.0	115.8	128.2	139.2
105°	1.4	4.1	12.4	24.8	41.3	59.3	75.8	92.3	107.5	118.5	128.2
107.5°	1.4	2.8	11.0	20.7	35.8	53.7	70.3	84.1	97.8	108.9	118.5
110°	1.4	2.8	9.6	19.3	31.7	48.2	63.4	77.2	89.6	100.6	108.9

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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	17.9	28.9	42.7	57.9	70.3	82.7	92.3	100.6
115°	1.4	2.8	8.3	16.5	26.2	37.2	51.0	64.8	74.4	85.4	92.3
117.5°	1.4	2.8	6.9	13.8	24.8	34.4	46.9	57.9	68.9	78.5	85.4
120°	1.4	2.8	6.9	12.4	22.0	31.7	41.3	52.4	63.4	70.3	77.2
122.5°	1.4	2.8	5.5	12.4	19.3	28.9	37.2	46.9	56.5	64.8	71.7
125°	1.4	2.8	5.5	11.0	17.9	26.2	34.4	41.3	51.0	57.9	64.8
127.5°	1.4	2.8	5.5	9.6	16.5	23.4	31.7	38.6	45.5	52.4	57.9
130°	1.4	2.8	4.1	8.3	15.2	20.7	27.6	35.8	41.3	46.9	52.4
132.5°	1.4	2.8	4.1	8.3	12.4	17.9	24.8	31.7	37.2	42.7	46.9
135°	1.4	2.8	4.1	6.9	11.0	16.5	20.7	27.6	33.1	38.6	42.7
137.5°	1.4	2.8	4.1	6.9	9.6	13.8	17.9	23.4	28.9	33.1	38.6
140°	1.4	2.8	4.1	5.5	8.3	12.4	16.5	19.3	24.8	28.9	33.1
142.5°	1.4	2.8	4.1	5.5	8.3	11.0	13.8	16.5	20.7	24.8	28.9
145°	1.4	2.8	4.1	5.5	6.9	9.6	12.4	15.2	16.5	20.7	23.4
147.5°	1.4	2.8	4.1	5.5	5.5	8.3	11.0	12.4	15.2	16.5	19.3
150°	1.4	2.8	4.1	4.1	5.5	6.9	9.6	11.0	12.4	15.2	16.5
152.5°	1.4	2.8	4.1	4.1	5.5	6.9	8.3	9.6	11.0	12.4	13.8
155°	1.4	2.8	4.1	4.1	4.1	5.5	6.9	8.3	9.6	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	9.6
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°	2505.2	2505.2	2505.2	2505.2	2505.2	2505.2	2505.2	2505.2	2505.2	2505.2	2505.2
2.5°	2490.0	2494.2	2506.6	2506.6	2503.8	2501.1	2501.1	2496.9	2499.7	2505.2	2502.4
5°	2490.0	2494.2	2506.6	2506.6	2503.8	2501.1	2499.7	2495.6	2499.7	2505.2	2502.4
7.5°	2481.8	2487.3	2499.7	2499.7	2496.9	2495.6	2492.8	2490.0	2494.2	2499.7	2496.9
10°	2470.7	2476.3	2488.7	2488.7	2485.9	2485.9	2481.8	2479.0	2484.5	2488.7	2487.3
12.5°	2454.2	2461.1	2472.1	2470.7	2468.0	2469.4	2465.2	2459.7	2465.2	2469.4	2470.7
15°	2430.8	2439.1	2450.1	2447.3	2443.2	2445.9	2439.1	2434.9	2439.1	2447.3	2445.9
17.5°	2400.5	2406.0	2414.3	2414.3	2410.1	2407.4	2404.6	2400.5	2403.2	2408.7	2410.1
20°	2357.8	2364.6	2368.8	2364.6	2363.3	2359.1	2353.6	2349.5	2355.0	2363.3	2364.6
22.5°	2301.3	2302.6	2312.3	2302.6	2295.7	2294.4	2288.9	2280.6	2288.9	2295.7	2297.1
25°	2231.0	2237.9	2233.7	2217.2	2217.2	2206.2	2203.4	2199.3	2200.7	2213.1	2218.6
27.5°	2141.4	2144.2	2133.1	2119.4	2107.0	2100.1	2090.4	2091.8	2091.8	2108.3	2113.8
30°	2043.6	2028.4	2018.8	1996.7	1987.1	1970.5	1967.8	1967.8	1965.0	1973.3	1998.1
32.5°	1926.4	1905.8	1890.6	1869.9	1853.4	1836.9	1828.6	1832.7	1831.4	1852.0	1860.3
35°	1798.3	1785.9	1754.2	1728.0	1718.4	1693.6	1693.6	1681.2	1689.4	1712.9	1722.5
37.5°	1663.2	1644.0	1617.8	1588.8	1581.9	1562.6	1555.8	1548.9	1566.8	1570.9	1580.6
40°	1525.4	1507.5	1482.7	1455.2	1455.2	1431.7	1431.7	1431.7	1433.1	1441.4	1459.3
42.5°	1394.5	1375.2	1353.2	1333.9	1331.1	1313.2	1313.2	1311.9	1314.6	1321.5	1338.0
45°	1267.8	1252.6	1229.2	1219.5	1220.9	1201.6	1205.7	1201.6	1207.1	1214.0	1219.5
47.5°	1150.6	1141.0	1131.3	1117.6	1113.4	1112.0	1105.2	1099.6	1109.3	1109.3	1117.6
50°	1041.8	1036.3	1030.7	1022.5	1023.9	1018.3	1010.1	1010.1	1017.0	1018.3	1023.9
52.5°	946.7	939.8	932.9	934.3	935.7	932.9	928.8	924.6	928.8	931.5	938.4
55°	851.6	846.1	853.0	850.2	853.0	850.2	847.5	844.7	851.6	847.5	854.4
57.5°	766.2	771.7	774.4	768.9	773.1	770.3	771.7	767.5	773.1	775.8	774.4
60°	687.6	695.9	691.8	693.1	698.6	695.9	690.4	694.5	700.0	701.4	700.0
62.5°	616.0	625.6	629.7	627.0	628.4	625.6	629.7	624.2	631.1	633.9	629.7
65°	551.2	562.2	565.0	565.0	565.0	562.2	566.4	567.7	570.5	570.5	567.7
67.5°	496.1	505.7	508.5	511.2	508.5	505.7	505.7	507.1	512.6	515.4	512.6
70°	446.5	456.1	457.5	457.5	458.9	461.6	456.1	458.9	463.0	464.4	463.0
72.5°	403.8	413.4	416.2	414.8	416.2	417.5	417.5	414.8	418.9	421.7	421.7
75°	369.3	374.8	377.6	377.6	378.9	380.3	380.3	378.9	381.7	383.1	384.5
77.5°	337.6	341.7	345.9	345.9	347.3	345.9	348.6	348.6	350.0	351.4	352.8
80°	305.9	311.4	314.2	315.6	318.3	319.7	319.7	319.7	321.1	322.5	322.5
82.5°	281.1	285.2	289.4	293.5	293.5	294.9	294.9	294.9	296.3	296.3	297.6
85°	256.3	261.8	266.0	268.7	270.1	271.5	271.5	272.8	272.8	272.8	274.2
87.5°	234.3	241.1	243.9	246.7	248.0	250.8	250.8	250.8	252.2	252.2	252.2
90°	219.1	226.0	228.7	231.5	232.9	234.3	234.3	235.6	235.6	237.0	237.0
92.5°	201.2	208.1	213.6	213.6	215.0	217.7	216.3	216.3	217.7	219.1	219.1
95°	187.4	192.9	197.1	198.4	199.8	199.8	199.8	201.2	199.8	201.2	201.2
97.5°	170.9	176.4	180.5	183.3	184.7	184.7	184.7	186.0	184.7	186.0	186.0
100°	157.1	162.6	166.7	168.1	170.9	170.9	170.9	170.9	170.9	170.9	172.2
102.5°	146.1	151.6	154.3	155.7	157.1	158.5	158.5	158.5	158.5	159.8	159.8
105°	135.0	140.6	143.3	144.7	146.1	147.4	147.4	147.4	148.8	148.8	147.4
107.5°	125.4	129.5	132.3	135.0	136.4	136.4	137.8	137.8	137.8	137.8	137.8
110°	115.8	119.9	124.0	126.8	126.8	128.2	128.2	129.5	129.5	128.2	129.5

TEST NUMBER: P1213524

CATALOG NUMBER: 4SNLED-LD5-74HL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	106.1	111.6	114.4	117.1	118.5	119.9	119.9	119.9	119.9	119.9	119.9
115°	97.8	103.3	106.1	108.9	110.2	111.6	111.6	111.6	111.6	111.6	111.6
117.5°	90.9	96.5	99.2	100.6	102.0	103.3	104.7	104.7	104.7	104.7	103.3
120°	84.1	88.2	90.9	93.7	95.1	96.5	96.5	96.5	96.5	96.5	96.5
122.5°	77.2	81.3	84.1	86.8	88.2	89.6	89.6	89.6	89.6	89.6	89.6
125°	70.3	74.4	77.2	79.9	81.3	82.7	82.7	82.7	82.7	82.7	82.7
127.5°	63.4	67.5	71.7	73.0	74.4	75.8	75.8	75.8	77.2	75.8	75.8
130°	56.5	60.6	64.8	66.1	67.5	68.9	70.3	70.3	70.3	70.3	68.9
132.5°	51.0	55.1	57.9	59.3	62.0	62.0	63.4	63.4	63.4	63.4	62.0
135°	46.9	49.6	52.4	53.7	56.5	56.5	56.5	57.9	57.9	56.5	55.1
137.5°	41.3	44.1	46.9	48.2	49.6	51.0	51.0	52.4	51.0	51.0	51.0
140°	38.6	40.0	42.7	44.1	45.5	45.5	45.5	46.9	46.9	45.5	45.5
142.5°	33.1	35.8	38.6	40.0	41.3	41.3	41.3	41.3	41.3	41.3	41.3
145°	27.6	31.7	33.1	35.8	35.8	37.2	37.2	37.2	37.2	37.2	35.8
147.5°	23.4	26.2	30.3	31.7	31.7	33.1	33.1	33.1	33.1	33.1	31.7
150°	17.9	20.7	24.8	27.6	27.6	28.9	28.9	28.9	28.9	27.6	27.6
152.5°	15.2	17.9	19.3	22.0	23.4	23.4	23.4	24.8	23.4	23.4	23.4
155°	13.8	15.2	16.5	17.9	19.3	20.7	20.7	20.7	20.7	19.3	19.3
157.5°	11.0	12.4	13.8	15.2	16.5	17.9	17.9	17.9	17.9	17.9	16.5
160°	8.3	9.6	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: P1213524

CATALOG NUMBER: 4SNLED-LD5-74HL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2505.2	2505.2	2505.2	2505.2	2505.2	2505.2	2505.2	2505.2	2505.2	2505.2	2505.2
2.5°	2499.7	2498.3	2502.4	2495.6	2474.9	2480.4	2477.6	2490.0	2492.8	2495.6	2508.0
5°	2499.7	2498.3	2501.1	2495.6	2473.5	2477.6	2474.9	2487.3	2490.0	2491.4	2503.8
7.5°	2494.2	2492.8	2496.9	2490.0	2466.6	2472.1	2468.0	2480.4	2481.8	2483.2	2494.2
10°	2483.2	2481.8	2484.5	2479.0	2455.6	2461.1	2455.6	2468.0	2468.0	2470.7	2479.0
12.5°	2466.6	2463.9	2469.4	2462.5	2436.3	2443.2	2440.4	2448.7	2450.1	2451.5	2459.7
15°	2443.2	2440.4	2444.6	2440.4	2417.0	2418.4	2414.3	2426.7	2428.0	2425.3	2433.5
17.5°	2408.7	2406.0	2414.3	2411.5	2388.1	2393.6	2392.2	2395.0	2399.1	2392.2	2403.2
20°	2366.0	2368.8	2371.5	2372.9	2355.0	2355.0	2353.6	2359.1	2363.3	2357.8	2366.0
22.5°	2302.6	2309.5	2317.8	2320.5	2308.1	2306.8	2315.0	2312.3	2316.4	2313.7	2319.2
25°	2222.7	2236.5	2244.8	2253.0	2246.1	2248.9	2261.3	2264.0	2264.0	2262.7	2268.2
27.5°	2123.5	2141.4	2156.6	2174.5	2167.6	2173.1	2193.8	2196.5	2202.0	2196.5	2207.6
30°	2005.0	2021.5	2050.5	2076.6	2079.4	2087.7	2116.6	2119.4	2134.5	2129.0	2133.1
32.5°	1886.5	1894.7	1927.8	1954.0	1970.5	1991.2	2022.9	2028.4	2049.1	2053.2	2053.2
35°	1737.7	1761.1	1791.4	1828.6	1849.3	1871.3	1914.0	1922.3	1952.6	1962.3	1973.3
37.5°	1612.3	1634.3	1653.6	1692.2	1729.4	1754.2	1788.6	1809.3	1841.0	1858.9	1872.7
40°	1478.6	1496.5	1517.2	1555.8	1587.5	1624.7	1659.1	1683.9	1723.9	1744.5	1762.5
42.5°	1351.8	1365.6	1387.6	1415.2	1448.3	1489.6	1522.7	1551.6	1594.3	1623.3	1644.0
45°	1238.8	1247.1	1266.4	1287.0	1316.0	1358.7	1390.4	1427.6	1462.1	1492.4	1517.2
47.5°	1132.7	1143.7	1153.4	1167.2	1193.3	1219.5	1256.7	1292.6	1327.0	1360.1	1384.9
50°	1034.9	1034.9	1050.0	1059.7	1077.6	1101.0	1130.0	1154.8	1197.5	1220.9	1252.6
52.5°	939.8	945.3	953.6	959.1	972.9	988.0	1011.5	1032.1	1067.9	1090.0	1120.3
55°	855.7	861.2	865.4	868.1	876.4	894.3	902.6	919.1	943.9	961.8	988.0
57.5°	775.8	778.6	782.7	784.1	785.5	796.5	803.4	807.5	832.3	850.2	872.3
60°	702.8	702.8	706.9	705.5	704.2	709.7	708.3	712.4	727.6	738.6	748.3
62.5°	633.9	633.9	635.3	632.5	631.1	631.1	625.6	629.7	633.9	635.3	642.1
65°	570.5	577.4	571.9	573.2	565.0	562.2	559.5	551.2	549.8	544.3	547.1
67.5°	514.0	519.5	514.0	514.0	507.1	501.6	494.7	480.9	476.8	465.8	463.0
70°	468.5	464.4	467.1	463.0	454.7	447.8	438.2	427.2	413.4	399.6	390.0
72.5°	424.4	424.4	421.7	417.5	413.4	399.6	388.6	376.2	359.7	341.7	328.0
75°	381.7	383.1	383.1	378.9	372.1	359.7	347.3	329.3	311.4	290.8	272.8
77.5°	351.4	351.4	351.4	344.5	337.6	326.6	311.4	292.1	272.8	248.0	227.4
80°	322.5	321.1	321.1	312.8	305.9	293.5	278.4	259.1	238.4	212.2	188.8
82.5°	299.0	297.6	294.9	288.0	278.4	266.0	250.8	230.1	208.1	184.7	155.7
85°	274.2	272.8	270.1	263.2	253.6	242.5	226.0	205.3	183.3	157.1	129.5
87.5°	252.2	250.8	246.7	242.5	231.5	219.1	202.6	183.3	159.8	135.0	107.5
90°	237.0	234.3	231.5	226.0	216.3	202.6	186.0	165.4	141.9	117.1	89.6
92.5°	219.1	217.7	213.6	208.1	199.8	186.0	169.5	150.2	126.8	103.3	77.2
95°	201.2	199.8	197.1	191.5	183.3	170.9	155.7	136.4	114.4	90.9	67.5
97.5°	184.7	184.7	180.5	176.4	166.7	157.1	141.9	124.0	103.3	82.7	60.6
100°	170.9	170.9	166.7	161.2	154.3	144.7	129.5	113.0	93.7	74.4	52.4
102.5°	158.5	157.1	154.3	148.8	141.9	132.3	118.5	103.3	85.4	66.1	46.9
105°	147.4	146.1	143.3	137.8	132.3	121.3	110.2	95.1	77.2	59.3	41.3
107.5°	136.4	135.0	133.7	128.2	121.3	111.6	100.6	85.4	70.3	53.7	37.2
110°	126.8	125.4	122.6	117.1	110.2	102.0	90.9	78.5	63.4	48.2	33.1

TEST NUMBER: P1213524

CATALOG NUMBER: 4SNLED-LD5-74HL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	118.5	117.1	114.4	108.9	103.3	93.7	84.1	70.3	57.9	44.1	28.9
115°	110.2	108.9	106.1	100.6	93.7	85.4	75.8	64.8	51.0	38.6	26.2
117.5°	102.0	100.6	97.8	93.7	86.8	78.5	68.9	57.9	45.5	35.8	23.4
120°	95.1	92.3	89.6	85.4	78.5	71.7	62.0	52.4	41.3	31.7	20.7
122.5°	88.2	85.4	82.7	78.5	71.7	64.8	55.1	46.9	38.6	28.9	19.3
125°	79.9	78.5	75.8	71.7	64.8	57.9	51.0	42.7	34.4	26.2	16.5
127.5°	73.0	71.7	68.9	63.4	57.9	52.4	45.5	38.6	30.3	22.0	15.2
130°	67.5	64.8	62.0	57.9	53.7	48.2	41.3	34.4	27.6	19.3	13.8
132.5°	60.6	57.9	55.1	52.4	48.2	42.7	37.2	30.3	24.8	17.9	12.4
135°	55.1	52.4	49.6	46.9	42.7	38.6	33.1	27.6	22.0	16.5	11.0
137.5°	48.2	46.9	45.5	42.7	38.6	34.4	30.3	23.4	19.3	15.2	9.6
140°	44.1	42.7	41.3	37.2	34.4	30.3	26.2	20.7	16.5	12.4	8.3
142.5°	40.0	38.6	35.8	33.1	30.3	27.6	22.0	19.3	15.2	11.0	8.3
145°	34.4	33.1	31.7	28.9	26.2	22.0	19.3	16.5	13.8	9.6	6.9
147.5°	31.7	30.3	27.6	24.8	22.0	19.3	17.9	15.2	11.0	8.3	5.5
150°	26.2	24.8	23.4	20.7	19.3	17.9	15.2	12.4	9.6	6.9	5.5
152.5°	22.0	20.7	19.3	19.3	16.5	15.2	12.4	11.0	8.3	6.9	4.1
155°	19.3	19.3	17.9	16.5	13.8	12.4	11.0	8.3	6.9	5.5	4.1
157.5°	16.5	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	9.6	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: P1213524

CATALOG NUMBER: 4SNLED-LD5-74HL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2505.2	2505.2	2505.2	2505.2	2505.2	2505.2	2505.2	2505.2	2505.2	2505.2	2505.2
2.5°	2509.3	2494.2	2508.0	2525.9	2525.9	2523.1	2520.4	2525.9	2539.6	2534.1	2517.6
5°	2505.2	2490.0	2502.4	2520.4	2520.4	2516.2	2513.5	2517.6	2532.8	2525.9	2510.7
7.5°	2496.9	2483.2	2491.4	2508.0	2508.0	2503.8	2501.1	2506.6	2519.0	2512.1	2495.6
10°	2481.8	2466.6	2476.3	2491.4	2490.0	2487.3	2483.2	2490.0	2501.1	2491.4	2472.1
12.5°	2462.5	2447.3	2455.6	2469.4	2468.0	2462.5	2459.7	2463.9	2473.5	2468.0	2447.3
15°	2436.3	2421.1	2428.0	2441.8	2437.7	2433.5	2428.0	2429.4	2441.8	2432.2	2410.1
17.5°	2404.6	2388.1	2393.6	2406.0	2401.8	2397.7	2390.8	2392.2	2406.0	2392.2	2368.8
20°	2366.0	2348.1	2352.2	2367.4	2360.5	2353.6	2346.7	2346.7	2360.5	2345.4	2319.2
22.5°	2324.7	2306.8	2309.5	2320.5	2315.0	2302.6	2295.7	2299.9	2306.8	2287.5	2259.9
25°	2273.7	2250.3	2254.4	2265.4	2261.3	2244.8	2237.9	2240.6	2237.9	2222.7	2193.8
27.5°	2214.4	2189.6	2192.4	2199.3	2193.8	2178.6	2170.3	2171.7	2166.2	2146.9	2113.8
30°	2140.0	2127.6	2126.2	2130.4	2122.1	2107.0	2097.3	2094.6	2093.2	2065.6	2025.7
32.5°	2064.2	2053.2	2046.3	2051.8	2042.2	2027.0	2010.5	2010.5	1996.7	1970.5	1936.1
35°	1987.1	1969.2	1962.3	1966.4	1955.4	1936.1	1922.3	1915.4	1894.7	1861.7	1824.5
37.5°	1887.9	1875.5	1867.2	1871.3	1858.9	1845.1	1819.0	1812.1	1790.0	1744.5	1697.7
40°	1780.4	1770.7	1762.5	1766.6	1752.8	1732.1	1708.7	1697.7	1672.9	1621.9	1584.7
42.5°	1664.6	1660.5	1650.8	1666.0	1638.4	1617.8	1594.3	1576.4	1551.6	1496.5	1453.8
45°	1542.0	1551.6	1529.6	1533.7	1515.8	1497.9	1473.1	1446.9	1422.1	1369.7	1321.5
47.5°	1412.4	1419.3	1404.2	1406.9	1387.6	1371.1	1349.1	1316.0	1288.4	1243.0	1200.2
50°	1278.8	1276.0	1276.0	1273.3	1258.1	1237.4	1215.4	1185.1	1157.5	1116.2	1080.3
52.5°	1136.8	1142.4	1145.1	1152.0	1132.7	1120.3	1085.9	1059.7	1039.0	996.3	966.0
55°	1000.4	1019.7	1014.2	1017.0	994.9	985.3	957.7	937.0	906.7	881.9	862.6
57.5°	876.4	880.5	883.3	887.4	877.8	858.5	836.4	819.9	796.5	775.8	762.0
60°	756.5	756.5	757.9	764.8	755.1	738.6	722.1	709.7	693.1	680.7	672.5
62.5°	643.5	653.2	654.5	649.0	636.6	628.4	617.3	610.5	599.4	595.3	592.5
65°	538.8	538.8	538.8	541.6	534.7	529.2	522.3	520.9	525.0	519.5	522.3
67.5°	450.6	446.5	443.7	445.1	442.3	439.6	438.2	442.3	450.6	450.6	457.5
70°	374.8	366.5	361.0	361.0	361.0	362.4	366.5	374.8	388.6	394.1	403.8
72.5°	312.8	294.9	286.6	286.6	288.0	293.5	305.9	321.1	333.5	344.5	356.9
75°	253.6	235.6	223.2	221.9	224.6	232.9	250.8	264.6	285.2	300.4	315.6
77.5°	205.3	183.3	168.1	166.7	170.9	183.3	205.3	223.2	246.7	263.2	279.7
80°	164.0	139.2	126.8	118.5	125.4	140.6	165.4	187.4	209.5	231.5	252.2
82.5°	130.9	107.5	88.2	79.9	88.2	108.9	132.3	158.5	180.5	203.9	224.6
85°	103.3	78.5	56.5	48.2	57.9	79.9	106.1	132.3	157.1	180.5	201.2
87.5°	81.3	56.5	34.4	23.4	35.8	59.3	84.1	110.2	136.4	159.8	180.5
90°	63.4	40.0	19.3	2.8	20.7	42.7	67.5	92.3	118.5	141.9	162.6
92.5°	53.7	30.3	11.0	0.0	12.4	31.7	55.1	79.9	103.3	126.8	147.4
95°	45.5	24.8	8.3	0.0	8.3	24.8	45.5	67.5	90.9	114.4	135.0
97.5°	38.6	19.3	5.5	0.0	5.5	19.3	37.2	59.3	79.9	102.0	121.3
100°	33.1	16.5	4.1	0.0	4.1	15.2	31.7	51.0	71.7	92.3	110.2
102.5°	28.9	13.8	2.8	0.0	2.8	12.4	26.2	44.1	62.0	81.3	99.2
105°	24.8	11.0	2.8	0.0	1.4	9.6	22.0	38.6	55.1	73.0	89.6
107.5°	22.0	9.6	2.8	0.0	1.4	8.3	19.3	33.1	49.6	64.8	79.9
110°	19.3	8.3	2.8	0.0	1.4	5.5	16.5	28.9	42.7	57.9	73.0

TEST NUMBER: P1213524

CATALOG NUMBER: 4SNLED-LD5-74HL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	16.5	6.9	1.4	0.0	0.0	4.1	13.8	24.8	37.2	52.4	64.8
115°	15.2	6.9	1.4	0.0	0.0	2.8	11.0	22.0	33.1	46.9	57.9
117.5°	13.8	5.5	1.4	0.0	1.4	2.8	9.6	19.3	28.9	40.0	52.4
120°	12.4	5.5	1.4	0.0	1.4	1.4	6.9	16.5	24.8	35.8	45.5
122.5°	11.0	5.5	1.4	0.0	1.4	1.4	5.5	13.8	22.0	31.7	40.0
125°	9.6	4.1	2.8	1.4	1.4	1.4	4.1	11.0	19.3	26.2	35.8
127.5°	9.6	4.1	2.8	1.4	1.4	1.4	2.8	9.6	15.2	23.4	31.7
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	9.6	16.5	22.0
135°	6.9	4.1	2.8	1.4	1.4	1.4	1.4	2.8	6.9	12.4	17.9
137.5°	5.5	2.8	2.8	1.4	1.4	1.4	1.4	1.4	5.5	9.6	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: P1213524

CATALOG NUMBER: 4SNLED-LD5-74HL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2505.2	2505.2	2505.2	2505.2	2505.2	2505.2	2505.2	2505.2	2505.2	2505.2	2505.2
2.5°	2512.1	2485.9	2499.7	2495.6	2501.1	2512.1	2510.7	2508.0	2508.0	2503.8	2498.3
5°	2503.8	2479.0	2491.4	2484.5	2491.4	2501.1	2499.7	2495.6	2498.3	2491.4	2484.5
7.5°	2487.3	2465.2	2476.3	2470.7	2476.3	2485.9	2481.8	2480.4	2483.2	2472.1	2468.0
10°	2468.0	2443.2	2455.6	2448.7	2455.6	2462.5	2459.7	2454.2	2459.7	2448.7	2444.6
12.5°	2437.7	2417.0	2425.3	2422.5	2426.7	2433.5	2428.0	2423.9	2426.7	2417.0	2408.7
15°	2404.6	2383.9	2390.8	2386.7	2389.4	2397.7	2388.1	2386.7	2383.9	2374.3	2371.5
17.5°	2361.9	2342.6	2349.5	2342.6	2346.7	2344.0	2342.6	2335.7	2335.7	2324.7	2316.4
20°	2309.5	2293.0	2288.9	2283.3	2288.9	2283.3	2275.1	2269.6	2268.2	2257.2	2250.3
22.5°	2248.9	2229.6	2232.4	2217.2	2218.6	2210.3	2196.5	2191.0	2185.5	2173.1	2163.5
25°	2175.9	2156.6	2142.8	2133.1	2120.7	2119.4	2101.4	2087.7	2086.3	2071.1	2069.8
27.5°	2093.2	2071.1	2060.1	2036.7	2021.5	2009.1	1994.0	1980.2	1973.3	1956.8	1945.7
30°	1998.1	1973.3	1945.7	1929.2	1905.8	1896.1	1869.9	1853.4	1847.9	1830.0	1821.7
32.5°	1890.6	1864.4	1842.4	1810.7	1784.5	1770.7	1744.5	1728.0	1721.1	1701.8	1690.8
35°	1773.5	1744.5	1718.4	1688.0	1667.4	1644.0	1612.3	1595.7	1580.6	1573.7	1565.4
37.5°	1650.8	1619.1	1588.8	1558.5	1540.6	1513.0	1485.5	1474.5	1456.5	1449.7	1441.4
40°	1524.1	1492.4	1463.4	1434.5	1413.8	1389.0	1364.2	1360.1	1340.8	1333.9	1328.4
42.5°	1398.7	1365.6	1332.5	1311.9	1296.7	1271.9	1255.4	1251.2	1234.7	1230.6	1230.6
45°	1285.7	1244.3	1216.8	1198.9	1186.5	1165.8	1152.0	1149.2	1135.5	1132.7	1132.7
47.5°	1164.4	1125.8	1105.2	1094.1	1083.1	1067.9	1059.7	1059.7	1045.9	1043.1	1041.8
50°	1051.4	1015.6	1000.4	989.4	988.0	977.0	970.1	967.4	967.4	957.7	959.1
52.5°	943.9	926.0	913.6	906.7	898.5	891.6	886.1	886.1	881.9	875.0	877.8
55°	844.7	824.0	825.4	819.9	815.8	811.6	813.0	804.8	803.4	797.9	802.0
57.5°	745.5	745.5	742.7	738.6	731.7	734.5	734.5	734.5	727.6	723.4	727.6
60°	661.4	665.6	658.7	662.8	660.1	661.4	658.7	658.7	654.5	653.2	654.5
62.5°	587.0	593.9	591.2	596.7	593.9	595.3	598.1	592.5	589.8	587.0	589.8
65°	520.9	529.2	527.8	531.9	533.3	534.7	536.0	533.3	530.5	527.8	526.4
67.5°	463.0	471.3	476.8	478.2	479.5	483.7	482.3	479.5	476.8	472.7	471.3
70°	410.6	421.7	428.6	431.3	436.8	434.1	434.1	432.7	429.9	425.8	424.4
72.5°	366.5	378.9	385.8	388.6	394.1	394.1	392.7	391.4	388.6	384.5	383.1
75°	328.0	339.0	348.6	354.1	358.3	358.3	356.9	355.5	352.8	350.0	348.6
77.5°	297.6	307.3	315.6	322.5	325.2	326.6	325.2	322.5	322.5	321.1	319.7
80°	267.3	278.4	286.6	293.5	297.6	297.6	296.3	297.6	294.9	293.5	292.1
82.5°	241.1	253.6	263.2	270.1	272.8	274.2	272.8	274.2	271.5	271.5	271.5
85°	217.7	230.1	241.1	246.7	250.8	252.2	252.2	252.2	250.8	250.8	250.8
87.5°	198.4	210.8	221.9	227.4	231.5	232.9	232.9	234.3	231.5	231.5	231.5
90°	180.5	192.9	203.9	209.5	213.6	216.3	216.3	217.7	216.3	215.0	215.0
92.5°	164.0	177.8	188.8	194.3	198.4	202.6	202.6	203.9	201.2	201.2	201.2
95°	150.2	164.0	173.6	180.5	184.7	187.4	188.8	188.8	187.4	187.4	187.4
97.5°	137.8	150.2	159.8	166.7	170.9	172.2	173.6	175.0	173.6	173.6	173.6
100°	125.4	137.8	147.4	153.0	158.5	159.8	161.2	162.6	162.6	161.2	161.2
102.5°	114.4	126.8	135.0	141.9	146.1	148.8	150.2	150.2	150.2	150.2	150.2
105°	103.3	115.8	124.0	130.9	135.0	137.8	139.2	140.6	140.6	139.2	139.2
107.5°	93.7	104.7	114.4	119.9	125.4	128.2	129.5	129.5	130.9	129.5	129.5
110°	84.1	96.5	104.7	110.2	115.8	118.5	119.9	121.3	121.3	121.3	121.3

TEST NUMBER: P1213524

CATALOG NUMBER: 4SNLED-LD5-74HL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	77.2	86.8	95.1	100.6	106.1	108.9	110.2	111.6	113.0	111.6	111.6
115°	68.9	78.5	86.8	92.3	96.5	99.2	102.0	103.3	103.3	104.7	103.3
117.5°	62.0	70.3	78.5	84.1	88.2	92.3	93.7	95.1	96.5	95.1	95.1
120°	55.1	63.4	70.3	75.8	79.9	84.1	85.4	86.8	88.2	86.8	86.8
122.5°	49.6	56.5	63.4	68.9	73.0	75.8	78.5	78.5	79.9	79.9	79.9
125°	44.1	51.0	56.5	62.0	66.1	68.9	70.3	71.7	71.7	73.0	73.0
127.5°	38.6	44.1	51.0	55.1	59.3	62.0	63.4	64.8	64.8	66.1	66.1
130°	33.1	38.6	44.1	48.2	52.4	55.1	56.5	57.9	59.3	59.3	59.3
132.5°	28.9	34.4	38.6	42.7	45.5	48.2	51.0	52.4	52.4	52.4	52.4
135°	23.4	28.9	33.1	37.2	40.0	42.7	44.1	46.9	46.9	46.9	46.9
137.5°	19.3	24.8	28.9	31.7	34.4	37.2	38.6	40.0	41.3	41.3	41.3
140°	15.2	19.3	23.4	27.6	30.3	31.7	34.4	34.4	35.8	35.8	35.8
142.5°	11.0	15.2	17.9	22.0	24.8	27.6	28.9	30.3	30.3	30.3	30.3
145°	8.3	11.0	13.8	16.5	20.7	22.0	23.4	24.8	26.2	26.2	26.2
147.5°	5.5	8.3	9.6	12.4	15.2	17.9	19.3	20.7	22.0	22.0	22.0
150°	4.1	5.5	8.3	9.6	11.0	13.8	16.5	16.5	17.9	17.9	16.5
152.5°	2.8	4.1	5.5	6.9	8.3	9.6	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	9.6	9.6	9.6	9.6
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: P1213524

CATALOG NUMBER: 4SNLED-LD5-74HL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2505.2	2505.2	2505.2	2505.2	2505.2	2505.2	2505.2	2505.2	2505.2	2505.2	2505.2
2.5°	2502.4	2505.2	2505.2	2502.4	2501.1	2506.6	2499.7	2473.5	2481.8	2484.5	2492.8
5°	2490.0	2492.8	2492.8	2492.8	2490.0	2495.6	2488.7	2462.5	2472.1	2476.3	2481.8
7.5°	2472.1	2473.5	2476.3	2474.9	2472.1	2480.4	2473.5	2447.3	2454.2	2461.1	2468.0
10°	2448.7	2448.7	2450.1	2452.8	2450.1	2457.0	2450.1	2426.7	2433.5	2437.7	2445.9
12.5°	2417.0	2419.8	2421.1	2419.8	2418.4	2423.9	2421.1	2399.1	2401.8	2410.1	2418.4
15°	2374.3	2374.3	2381.2	2378.4	2378.4	2383.9	2386.7	2361.9	2366.0	2378.4	2386.7
17.5°	2321.9	2323.3	2328.8	2331.6	2330.2	2339.8	2341.2	2321.9	2320.5	2335.7	2344.0
20°	2254.4	2257.2	2264.0	2269.6	2269.6	2280.6	2284.7	2272.3	2273.7	2290.2	2293.0
22.5°	2171.7	2171.7	2184.1	2192.4	2199.3	2206.2	2218.6	2207.6	2207.6	2229.6	2242.0
25°	2069.8	2079.4	2083.5	2100.1	2109.7	2129.0	2140.0	2141.4	2142.8	2163.5	2171.7
27.5°	1956.8	1959.5	1971.9	1991.2	2002.2	2020.1	2040.8	2044.9	2051.8	2079.4	2091.8
30°	1828.6	1836.9	1842.4	1869.9	1885.1	1908.5	1934.7	1944.4	1949.9	1987.1	2002.2
32.5°	1697.7	1700.4	1723.9	1739.0	1756.9	1781.8	1812.1	1830.0	1841.0	1879.6	1901.6
35°	1566.8	1572.3	1591.6	1610.9	1628.8	1653.6	1685.3	1710.1	1729.4	1763.8	1792.8
37.5°	1446.9	1460.7	1464.8	1484.1	1497.9	1522.7	1544.7	1580.6	1599.9	1635.7	1672.9
40°	1339.4	1343.5	1346.3	1365.6	1375.2	1398.7	1430.4	1453.8	1480.0	1506.2	1550.2
42.5°	1233.3	1236.1	1240.2	1251.2	1262.2	1278.8	1302.2	1325.6	1353.2	1391.8	1420.7
45°	1135.5	1138.2	1141.0	1147.9	1157.5	1172.7	1187.8	1204.4	1231.9	1265.0	1295.3
47.5°	1044.5	1050.0	1050.0	1051.4	1058.3	1070.7	1081.7	1102.4	1117.6	1135.5	1169.9
50°	957.7	961.8	963.2	963.2	967.4	975.6	978.4	992.2	1005.9	1022.5	1047.3
52.5°	876.4	876.4	875.0	880.5	880.5	886.1	887.4	895.7	905.3	923.3	934.3
55°	799.2	799.2	803.4	800.6	800.6	803.4	802.0	803.4	811.6	822.7	832.3
57.5°	724.8	723.4	727.6	724.8	723.4	726.2	729.0	723.4	724.8	735.9	735.9
60°	650.4	651.8	655.9	653.2	653.2	653.2	650.4	647.7	644.9	651.8	654.5
62.5°	591.2	587.0	591.2	587.0	589.8	588.4	585.6	580.1	581.5	578.8	576.0
65°	529.2	529.2	530.5	526.4	529.2	529.2	525.0	523.6	515.4	512.6	505.7
67.5°	475.4	475.4	476.8	474.0	474.0	475.4	471.3	467.1	458.9	454.7	445.1
70°	428.6	428.6	428.6	427.2	427.2	427.2	424.4	418.9	410.6	403.8	391.4
72.5°	385.8	387.2	385.8	385.8	390.0	385.8	381.7	376.2	369.3	355.5	344.5
75°	351.4	352.8	351.4	351.4	351.4	350.0	348.6	340.4	332.1	321.1	304.5
77.5°	321.1	321.1	322.5	321.1	321.1	319.7	315.6	308.7	299.0	289.4	270.1
80°	292.1	293.5	294.9	296.3	293.5	292.1	288.0	282.5	270.1	259.1	239.8
82.5°	271.5	270.1	271.5	272.8	270.1	268.7	264.6	257.7	248.0	232.9	213.6
85°	250.8	249.4	249.4	250.8	249.4	246.7	242.5	235.6	226.0	210.8	191.5
87.5°	230.1	231.5	232.9	231.5	230.1	227.4	223.2	216.3	205.3	192.9	172.2
90°	215.0	215.0	215.0	215.0	213.6	210.8	206.7	198.4	188.8	173.6	155.7
92.5°	201.2	201.2	201.2	201.2	199.8	195.7	191.5	184.7	173.6	158.5	141.9
95°	187.4	188.8	187.4	187.4	184.7	183.3	176.4	169.5	159.8	144.7	126.8
97.5°	172.2	173.6	172.2	172.2	170.9	168.1	164.0	155.7	146.1	132.3	115.8
100°	161.2	161.2	159.8	159.8	158.5	155.7	150.2	143.3	133.7	119.9	103.3
102.5°	148.8	150.2	148.8	148.8	146.1	143.3	139.2	132.3	122.6	108.9	93.7
105°	139.2	139.2	137.8	137.8	135.0	132.3	128.2	119.9	111.6	99.2	84.1
107.5°	129.5	129.5	128.2	128.2	125.4	122.6	117.1	110.2	102.0	89.6	75.8
110°	119.9	119.9	119.9	118.5	115.8	111.6	107.5	100.6	92.3	81.3	67.5

TEST NUMBER: P1213524

CATALOG NUMBER: 4SNLED-LD5-74HL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	113.0	111.6	110.2	108.9	106.1	103.3	97.8	90.9	82.7	73.0	60.6
115°	103.3	103.3	102.0	100.6	97.8	93.7	89.6	84.1	75.8	64.8	53.7
117.5°	95.1	95.1	93.7	92.3	89.6	85.4	81.3	75.8	67.5	57.9	48.2
120°	86.8	86.8	85.4	84.1	81.3	77.2	74.4	67.5	60.6	51.0	42.7
122.5°	79.9	78.5	78.5	75.8	74.4	70.3	66.1	60.6	53.7	45.5	37.2
125°	71.7	71.7	70.3	68.9	67.5	63.4	59.3	53.7	46.9	40.0	33.1
127.5°	64.8	64.8	63.4	62.0	60.6	56.5	52.4	48.2	41.3	34.4	27.6
130°	57.9	57.9	56.5	55.1	53.7	49.6	46.9	41.3	35.8	30.3	23.4
132.5°	52.4	52.4	51.0	49.6	46.9	44.1	41.3	35.8	31.7	26.2	20.7
135°	46.9	45.5	45.5	44.1	41.3	38.6	35.8	31.7	26.2	22.0	16.5
137.5°	41.3	40.0	38.6	37.2	35.8	33.1	30.3	27.6	23.4	17.9	13.8
140°	35.8	34.4	34.4	33.1	30.3	28.9	26.2	22.0	19.3	15.2	11.0
142.5°	30.3	30.3	28.9	27.6	26.2	24.8	22.0	19.3	15.2	12.4	8.3
145°	26.2	24.8	24.8	23.4	22.0	19.3	17.9	15.2	12.4	9.6	6.9
147.5°	20.7	20.7	20.7	19.3	17.9	16.5	15.2	12.4	9.6	6.9	4.1
150°	16.5	16.5	16.5	15.2	13.8	12.4	11.0	9.6	6.9	4.1	2.8
152.5°	13.8	13.8	12.4	12.4	11.0	9.6	8.3	6.9	4.1	2.8	2.8
155°	9.6	9.6	9.6	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

TEST NUMBER: P1213524

CATALOG NUMBER: 4SNLED-LD5-74HL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2505.2	2505.2	2505.2	2505.2	2505.2	2505.2	2505.2
2.5°	2488.7	2487.3	2498.3	2498.3	2485.9	2505.2	2525.9
5°	2480.4	2479.0	2490.0	2490.0	2479.0	2498.3	2520.4
7.5°	2463.9	2465.2	2476.3	2479.0	2465.2	2483.2	2506.6
10°	2445.9	2444.6	2457.0	2459.7	2448.7	2465.2	2487.3
12.5°	2417.0	2417.0	2429.4	2433.5	2422.5	2441.8	2462.5
15°	2386.7	2386.7	2395.0	2401.8	2392.2	2410.1	2430.8
17.5°	2348.1	2346.7	2355.0	2363.3	2353.6	2372.9	2395.0
20°	2298.5	2298.5	2308.1	2317.8	2310.9	2328.8	2353.6
22.5°	2246.1	2240.6	2257.2	2264.0	2259.9	2277.8	2302.6
25°	2180.0	2178.6	2195.1	2204.8	2199.3	2218.6	2240.6
27.5°	2108.3	2107.0	2123.5	2135.9	2133.1	2151.1	2175.9
30°	2021.5	2028.4	2043.6	2064.2	2057.3	2076.6	2102.8
32.5°	1930.6	1937.5	1955.4	1977.4	1978.8	1994.0	2020.1
35°	1821.7	1839.6	1852.0	1881.0	1886.5	1901.6	1929.2
37.5°	1707.3	1728.0	1754.2	1776.2	1787.3	1799.7	1831.4
40°	1579.2	1609.5	1638.4	1664.6	1678.4	1690.8	1721.1
42.5°	1463.4	1486.9	1514.4	1540.6	1565.4	1576.4	1608.1
45°	1332.5	1360.1	1384.9	1416.6	1441.4	1453.8	1485.5
47.5°	1204.4	1231.9	1265.0	1287.0	1313.2	1325.6	1355.9
50°	1081.7	1106.5	1134.1	1160.3	1182.3	1193.3	1219.5
52.5°	960.5	986.6	1012.8	1029.4	1052.8	1061.1	1083.1
55°	853.0	870.9	894.3	904.0	927.4	932.9	948.1
57.5°	749.6	762.0	770.3	786.8	803.4	815.8	833.7
60°	655.9	661.4	667.0	676.6	690.4	694.5	701.4
62.5°	571.9	570.5	581.5	584.3	585.6	599.4	592.5
65°	497.5	498.8	489.2	485.1	490.6	494.7	491.9
67.5°	435.4	427.2	418.9	409.3	401.0	405.1	401.0
70°	374.8	367.9	354.1	340.4	334.9	326.6	322.5
72.5°	326.6	310.0	296.3	278.4	268.7	259.1	252.2
75°	289.4	266.0	246.7	227.4	213.6	199.8	197.1
77.5°	250.8	228.7	206.7	186.0	165.4	150.2	144.7
80°	220.5	199.8	173.6	148.8	126.8	107.5	100.6
82.5°	192.9	170.9	144.7	118.5	93.7	73.0	64.8
85°	169.5	146.1	119.9	93.7	68.9	46.9	35.8
87.5°	151.6	125.4	99.2	74.4	48.2	26.2	13.8
90°	135.0	110.2	85.4	59.3	34.4	13.8	0.0
92.5°	119.9	96.5	71.7	48.2	26.2	8.3	1.4
95°	106.1	85.4	60.6	38.6	19.3	5.5	1.4
97.5°	95.1	74.4	52.4	31.7	15.2	4.1	1.4
100°	85.4	64.8	45.5	26.2	12.4	2.8	1.4
102.5°	75.8	57.9	38.6	22.0	9.6	1.4	1.4
105°	67.5	51.0	33.1	19.3	8.3	1.4	1.4
107.5°	60.6	45.5	28.9	16.5	5.5	1.4	1.4
110°	53.7	38.6	24.8	13.8	4.1	1.4	1.4



TEST NUMBER: P1213524

CATALOG NUMBER: 4SNLED-LD5-74HL-LN-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	48.2	34.4	22.0	11.0	2.8	1.4	1.4
115°	42.7	30.3	19.3	9.6	2.8	1.4	1.4
117.5°	37.2	26.2	16.5	6.9	1.4	1.4	1.4
120°	33.1	23.4	13.8	5.5	1.4	1.4	1.4
122.5°	28.9	19.3	11.0	4.1	1.4	1.4	1.4
125°	24.8	16.5	9.6	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°	17.9	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°	9.6	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)