

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: P1213511

Luminaire Tested: 4SNLED-LD5-66SL-LC-UNV-L935-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213511
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-LD5-66SL-LC-UNV-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR LENSED
Light Source: -
Ballast/Driver: -

Summary

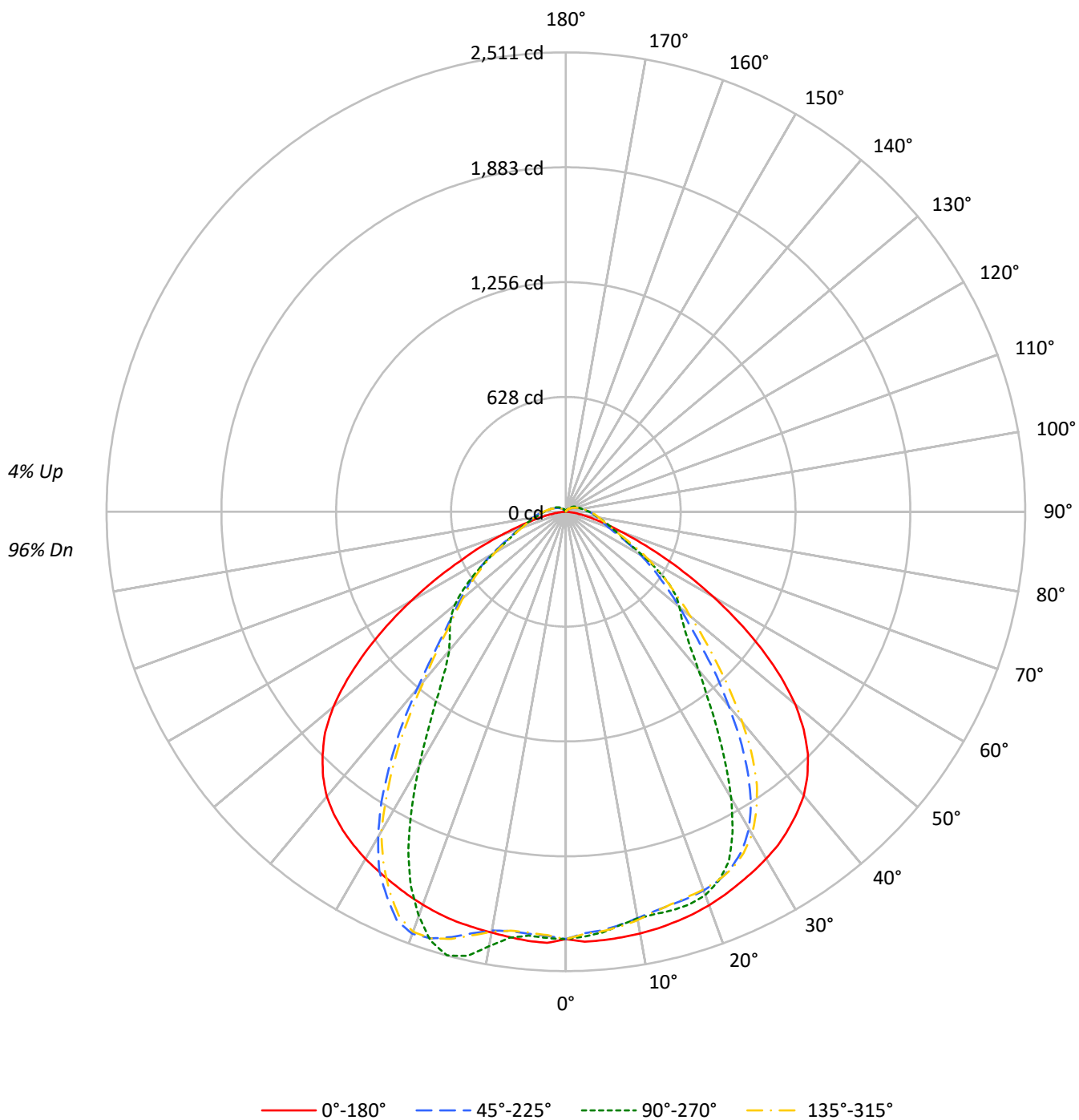
Lumens per Lamp: N/A
Luminaire Lumens: 5568.0 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	18874	18874	18874	18874
5°	19012	18126	19051	18268
10°	19100	17372	19060	18551
15°	19248	17140	19237	19084
20°	19460	16868	19439	17781
25°	19699	16002	19689	15462
30°	20070	13869	20081	12287
35°	20463	11215	20521	9491
40°	20810	9030	20896	7956
45°	20737	7649	20843	7448
50°	19842	7042	20120	6885
55°	17604	6330	18044	5754
60°	14280	4844	15038	4443
65°	10616	3707	11437	3515
70°	7220	3200	8138	3059
75°	4723	2887	5497	2730
80°	3052	2692	3578	2476
85°	1564	2685	2063	2452

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 180°

Vertical Angle: 45°

Luminance: 20843 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.9	4.0
10°-20°	660.1	11.9
20°-30°	1003.5	18.0
30°-40°	1076.6	19.3
40°-50°	934.3	16.8
50°-60°	692.4	12.4
60°-70°	396.7	7.1
70°-80°	219.7	3.9
80°-90°	133.8	2.4
90°-100°	87.0	1.6
100°-110°	58.3	1.0
110°-120°	39.3	0.7
120°-130°	24.1	0.4
130°-140°	12.7	0.2
140°-150°	5.8	0.1
150°-160°	1.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1885.5	33.9
0°-40°	2962.1	53.2
0°-60°	4588.8	82.4
0°-90°	5339.1	95.9
90°-120°	184.6	3.3
90°-150°	227.2	4.1
90°-180°	229.0	4.1
0°-180°	5568.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2336	2336	2336	2336	2336	
5°	2350	2308	2355	2326	2350	224
15°	2320	2255	2319	2511	2320	656
25°	2242	2109	2240	2038	2242	1036
35°	2120	1436	2126	1215	2120	1327
45°	1871	920	1881	896	1871	1433
55°	1305	690	1338	627	1305	1158
65°	592	350	638	332	592	597
75°	169	222	197	210	169	193
85°	23	153	30	140	23	30
90°	0	128	2	118	0	1
95°	1	105	0	100	1	1
105°	1	78	1	75	1	1
115°	1	64	1	58	1	1
125°	1	48	1	40	1	1
135°	1	30	1	25	1	1
145°	1	18	2	14	1	1
155°	2	8	2	7	2	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2335.6	2335.6	2335.6	2335.6	2335.6	2335.6	2335.6	2335.6	2335.6	2335.6	2335.6
2.5°	2352.5	2346.5	2344.1	2339.3	2342.9	2357.4	2347.7	2332.0	2333.2	2305.5	2320.0
5°	2350.1	2342.9	2339.3	2334.4	2336.8	2350.1	2340.5	2324.8	2323.6	2295.8	2309.1
7.5°	2346.5	2339.3	2333.2	2329.6	2330.8	2341.7	2329.6	2311.5	2307.9	2277.7	2289.8
10°	2340.5	2335.6	2327.2	2321.2	2320.0	2332.0	2312.7	2294.6	2286.2	2254.8	2266.9
12.5°	2332.0	2324.8	2316.3	2305.5	2304.3	2311.5	2295.8	2270.5	2262.0	2236.7	2250.0
15°	2320.0	2311.5	2301.9	2289.8	2283.8	2288.6	2269.3	2246.4	2245.2	2223.4	2241.5
17.5°	2306.7	2294.6	2283.8	2266.9	2258.4	2262.0	2246.4	2225.9	2228.3	2215.0	2235.5
20°	2288.6	2275.3	2258.4	2241.5	2229.5	2235.5	2224.6	2209.0	2212.6	2202.9	2221.0
22.5°	2268.1	2250.0	2229.5	2210.2	2200.5	2209.0	2200.5	2187.2	2188.5	2182.4	2193.3
25°	2241.5	2221.0	2196.9	2172.8	2167.9	2174.0	2169.1	2158.3	2153.5	2143.8	2148.6
27.5°	2217.4	2194.5	2164.3	2139.0	2130.5	2142.6	2131.7	2113.7	2100.4	2087.1	2077.5
30°	2189.7	2161.9	2128.1	2099.2	2091.9	2096.8	2081.1	2053.3	2018.3	2001.5	1974.9
32.5°	2159.5	2123.3	2081.1	2048.5	2043.7	2040.1	2011.1	1971.3	1917.0	1883.2	1842.2
35°	2119.7	2079.9	2029.2	1989.4	1982.2	1961.6	1914.6	1861.5	1791.5	1733.6	1663.7
37.5°	2075.0	2028.0	1974.9	1921.8	1901.3	1860.3	1794.0	1738.5	1632.3	1562.3	1477.9
40°	2024.4	1967.7	1902.5	1838.6	1804.8	1738.5	1662.5	1580.4	1477.9	1383.8	1312.6
42.5°	1954.4	1894.1	1816.9	1745.7	1687.8	1599.7	1510.4	1394.6	1300.5	1220.9	1148.5
45°	1871.2	1798.8	1709.5	1623.8	1550.3	1445.3	1340.3	1224.5	1146.1	1053.2	1003.7
47.5°	1763.8	1685.4	1590.1	1494.8	1398.2	1282.4	1172.6	1061.7	983.2	916.9	880.7
50°	1637.1	1564.7	1459.8	1346.4	1240.2	1119.6	1009.8	926.5	850.5	809.5	781.8
52.5°	1480.3	1412.7	1305.3	1182.3	1079.7	961.5	861.4	793.8	739.5	709.4	699.7
55°	1305.3	1246.2	1140.1	1025.5	920.5	811.9	735.9	676.8	641.8	623.7	624.9
57.5°	1118.4	1072.5	972.4	869.8	770.9	688.9	620.1	573.1	546.5	545.3	548.9
60°	931.4	897.6	810.7	722.6	635.8	569.4	518.8	486.2	469.3	470.5	469.3
62.5°	752.8	721.4	658.7	586.3	517.6	472.9	427.1	413.8	399.3	398.1	398.1
65°	592.4	568.2	517.6	465.7	413.8	384.8	361.9	346.2	335.4	333.0	334.2
67.5°	445.2	435.5	400.5	365.5	333.0	314.9	295.6	292.0	283.5	283.5	285.9
70°	331.8	324.5	305.2	284.7	271.4	259.4	249.7	249.7	248.5	247.3	253.3
72.5°	240.1	241.3	235.3	219.6	218.4	215.9	213.5	217.2	218.4	222.0	229.2
75°	168.9	172.5	172.5	170.1	174.9	181.0	184.6	190.6	197.9	202.7	211.1
77.5°	119.4	119.4	125.5	132.7	142.4	153.2	162.9	171.3	181.0	187.0	194.2
80°	77.2	80.8	90.5	103.8	117.0	131.5	144.8	155.6	165.3	174.9	179.8
82.5°	45.8	51.9	63.9	80.8	97.7	115.8	129.1	142.4	153.2	162.9	166.5
85°	22.9	31.4	45.8	63.9	82.0	101.3	118.2	130.3	142.4	150.8	155.6
87.5°	7.2	16.9	32.6	49.5	68.8	88.1	106.2	119.4	130.3	137.5	142.4
90°	0.0	8.4	22.9	41.0	59.1	78.4	95.3	109.8	120.6	126.7	130.3
92.5°	0.0	4.8	18.1	33.8	50.7	70.0	86.9	100.1	109.8	115.8	118.2
95°	1.2	3.6	13.3	27.7	44.6	62.7	78.4	90.5	100.1	106.2	107.4
97.5°	1.2	2.4	10.9	22.9	38.6	55.5	71.2	83.2	90.5	96.5	97.7
100°	1.2	2.4	8.4	20.5	33.8	49.5	63.9	74.8	83.2	88.1	89.3
102.5°	1.2	1.2	7.2	16.9	30.2	43.4	56.7	67.6	74.8	79.6	82.0
105°	1.2	1.2	6.0	14.5	26.5	38.6	50.7	61.5	67.6	72.4	74.8
107.5°	1.2	1.2	4.8	12.1	22.9	33.8	45.8	54.3	61.5	66.4	68.8
110°	1.2	1.2	3.6	10.9	19.3	30.2	39.8	48.3	55.5	60.3	62.7

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.2	1.2	3.6	9.7	16.9	26.5	35.0	43.4	49.5	54.3	57.9
115°	1.2	1.2	3.6	8.4	15.7	22.9	31.4	38.6	44.6	49.5	53.1
117.5°	1.2	1.2	3.6	7.2	13.3	20.5	27.7	35.0	39.8	44.6	48.3
120°	1.2	1.2	2.4	6.0	12.1	18.1	24.1	30.2	36.2	41.0	44.6
122.5°	1.2	1.2	2.4	6.0	9.7	15.7	21.7	26.5	32.6	36.2	39.8
125°	1.2	1.2	2.4	4.8	8.4	14.5	19.3	24.1	27.7	32.6	36.2
127.5°	1.2	1.2	2.4	4.8	7.2	12.1	16.9	21.7	25.3	29.0	31.4
130°	1.2	1.2	2.4	3.6	6.0	9.7	14.5	18.1	22.9	25.3	27.7
132.5°	1.2	1.2	1.2	3.6	4.8	7.2	10.9	15.7	19.3	22.9	24.1
135°	1.2	1.2	1.2	2.4	4.8	6.0	8.4	12.1	15.7	19.3	21.7
137.5°	1.2	1.2	1.2	2.4	3.6	6.0	7.2	9.7	13.3	15.7	19.3
140°	1.2	1.2	1.2	2.4	3.6	4.8	6.0	8.4	10.9	13.3	15.7
142.5°	1.2	1.2	1.2	2.4	2.4	3.6	4.8	7.2	8.4	10.9	13.3
145°	1.2	1.2	1.2	2.4	2.4	3.6	4.8	6.0	7.2	8.4	10.9
147.5°	1.2	1.2	1.2	2.4	2.4	2.4	3.6	4.8	6.0	7.2	8.4
150°	2.4	2.4	2.4	2.4	2.4	2.4	3.6	3.6	4.8	6.0	7.2
152.5°	2.4	2.4	2.4	2.4	2.4	2.4	3.6	3.6	3.6	4.8	6.0
155°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.6	3.6	4.8	4.8
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2335.6	2335.6	2335.6	2335.6	2335.6	2335.6	2335.6	2335.6	2335.6	2335.6	2335.6
2.5°	2315.1	2317.5	2332.0	2330.8	2328.4	2326.0	2326.0	2323.6	2326.0	2332.0	2329.6
5°	2303.1	2306.7	2317.5	2316.3	2313.9	2312.7	2311.5	2307.9	2310.3	2318.7	2316.3
7.5°	2281.3	2285.0	2294.6	2289.8	2286.2	2288.6	2282.6	2278.9	2283.8	2292.2	2291.0
10°	2258.4	2260.8	2272.9	2270.5	2264.5	2265.7	2259.6	2257.2	2263.2	2268.1	2269.3
12.5°	2242.7	2251.2	2262.0	2260.8	2259.6	2260.8	2254.8	2252.4	2256.0	2260.8	2259.6
15°	2239.1	2250.0	2262.0	2262.0	2263.2	2264.5	2258.4	2254.8	2258.4	2262.0	2260.8
17.5°	2235.5	2248.8	2259.6	2258.4	2259.6	2262.0	2252.4	2250.0	2254.8	2259.6	2257.2
20°	2223.4	2235.5	2242.7	2240.3	2240.3	2241.5	2229.5	2229.5	2236.7	2240.3	2241.5
22.5°	2189.7	2204.1	2204.1	2198.1	2198.1	2193.3	2189.7	2182.4	2190.9	2196.9	2201.7
25°	2139.0	2145.0	2137.8	2124.5	2117.3	2111.2	2094.4	2108.8	2108.8	2126.9	2133.0
27.5°	2067.8	2054.5	2034.0	2006.3	2000.2	1980.9	1970.1	1973.7	1979.7	2005.1	2024.4
30°	1950.8	1911.0	1876.0	1863.9	1837.4	1818.1	1798.8	1808.4	1819.3	1833.8	1873.6
32.5°	1796.4	1757.8	1701.1	1680.5	1652.8	1628.7	1605.7	1620.2	1639.5	1649.2	1692.6
35°	1619.0	1573.2	1521.3	1486.3	1457.4	1444.1	1415.1	1435.6	1456.2	1463.4	1500.8
37.5°	1430.8	1383.8	1337.9	1307.8	1280.0	1271.6	1252.3	1266.7	1282.4	1293.3	1324.7
40°	1252.3	1208.8	1173.8	1153.3	1134.0	1126.8	1119.6	1125.6	1137.7	1146.1	1170.2
42.5°	1099.1	1064.1	1039.9	1027.9	1014.6	1005.0	1006.2	1008.6	1014.6	1032.7	1043.6
45°	965.1	944.6	928.9	926.5	918.1	916.9	915.7	920.5	924.1	935.0	943.4
47.5°	857.8	849.3	845.7	850.5	854.1	849.3	851.7	857.8	865.0	865.0	863.8
50°	773.3	775.7	780.6	791.4	798.7	801.1	803.5	810.7	811.9	814.3	810.7
52.5°	704.6	707.0	720.2	737.1	745.6	749.2	754.0	761.3	761.3	763.7	758.8
55°	634.6	638.2	651.5	668.4	675.6	680.4	685.2	690.1	693.7	698.5	694.9
57.5°	557.4	568.2	576.7	581.5	586.3	589.9	593.6	594.8	602.0	603.2	609.2
60°	475.3	477.7	486.2	485.0	481.4	491.0	486.2	494.6	503.1	513.9	515.1
62.5°	396.9	398.1	404.2	401.7	406.6	405.4	409.0	409.0	415.0	419.8	425.9
65°	335.4	336.6	341.4	341.4	340.2	343.8	347.4	349.9	349.9	353.5	358.3
67.5°	289.5	293.2	298.0	300.4	302.8	302.8	306.4	307.6	310.1	311.3	313.7
70°	258.2	263.0	267.8	270.2	271.4	273.9	275.1	275.1	277.5	278.7	281.1
72.5°	235.3	240.1	243.7	243.7	246.1	247.3	247.3	248.5	249.7	252.1	254.6
75°	215.9	219.6	222.0	220.8	220.8	220.8	222.0	222.0	224.4	226.8	229.2
77.5°	197.9	201.5	201.5	199.1	199.1	199.1	199.1	200.3	201.5	203.9	206.3
80°	184.6	184.6	183.4	183.4	181.0	179.8	179.8	181.0	181.0	183.4	187.0
82.5°	170.1	170.1	168.9	167.7	166.5	165.3	165.3	166.5	167.7	168.9	171.3
85°	156.8	156.8	154.4	154.4	153.2	153.2	153.2	153.2	154.4	155.6	158.0
87.5°	143.6	142.4	141.2	139.9	139.9	139.9	139.9	139.9	141.2	143.6	144.8
90°	130.3	129.1	127.9	127.9	126.7	126.7	127.9	127.9	129.1	130.3	131.5
92.5°	118.2	117.0	115.8	115.8	114.6	114.6	115.8	114.6	117.0	117.0	118.2
95°	107.4	106.2	105.0	105.0	105.0	105.0	105.0	105.0	106.2	106.2	107.4
97.5°	97.7	96.5	95.3	95.3	96.5	95.3	96.5	96.5	96.5	97.7	98.9
100°	89.3	88.1	88.1	89.3	88.1	88.1	89.3	89.3	89.3	89.3	90.5
102.5°	82.0	82.0	82.0	82.0	82.0	82.0	83.2	83.2	83.2	83.2	84.4
105°	74.8	76.0	76.0	76.0	77.2	77.2	77.2	78.4	78.4	78.4	78.4
107.5°	70.0	71.2	71.2	72.4	72.4	73.6	73.6	73.6	73.6	74.8	74.8
110°	65.1	66.4	67.6	68.8	68.8	70.0	70.0	70.0	70.0	70.0	70.0



TEST NUMBER: P1213511

CATALOG NUMBER: 4SNLED-LD5-66SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	60.3	61.5	62.7	65.1	66.4	66.4	66.4	66.4	67.6	67.6	66.4
115°	55.5	57.9	59.1	61.5	62.7	62.7	63.9	63.9	63.9	63.9	62.7
117.5°	50.7	54.3	55.5	57.9	59.1	59.1	60.3	60.3	60.3	60.3	59.1
120°	47.1	49.5	51.9	53.1	54.3	55.5	55.5	56.7	56.7	56.7	55.5
122.5°	43.4	45.8	48.3	49.5	50.7	51.9	51.9	51.9	51.9	51.9	51.9
125°	38.6	41.0	43.4	44.6	45.8	47.1	47.1	48.3	48.3	48.3	47.1
127.5°	35.0	37.4	38.6	41.0	42.2	42.2	43.4	43.4	43.4	43.4	42.2
130°	30.2	32.6	35.0	36.2	37.4	37.4	38.6	38.6	38.6	38.6	38.6
132.5°	26.5	29.0	30.2	32.6	32.6	33.8	33.8	35.0	35.0	35.0	33.8
135°	24.1	25.3	26.5	29.0	29.0	30.2	30.2	30.2	30.2	30.2	30.2
137.5°	21.7	22.9	24.1	25.3	25.3	26.5	26.5	26.5	26.5	27.7	26.5
140°	18.1	20.5	21.7	21.7	22.9	22.9	22.9	24.1	24.1	24.1	22.9
142.5°	15.7	16.9	18.1	19.3	20.5	20.5	20.5	20.5	21.7	20.5	20.5
145°	12.1	14.5	15.7	16.9	18.1	18.1	18.1	18.1	18.1	18.1	18.1
147.5°	9.7	10.9	13.3	14.5	14.5	15.7	15.7	15.7	15.7	15.7	15.7
150°	8.4	8.4	10.9	12.1	13.3	13.3	13.3	13.3	13.3	13.3	13.3
152.5°	6.0	7.2	8.4	9.7	10.9	10.9	10.9	10.9	10.9	10.9	10.9
155°	6.0	6.0	7.2	7.2	8.4	8.4	8.4	8.4	9.7	8.4	8.4
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: P1213511

CATALOG NUMBER: 4SNLED-LD5-66SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2335.6	2335.6	2335.6	2335.6	2335.6	2335.6	2335.6	2335.6	2335.6	2335.6	2335.6
2.5°	2326.0	2324.8	2329.6	2324.8	2300.6	2310.3	2306.7	2320.0	2321.2	2324.8	2336.8
5°	2313.9	2313.9	2320.0	2315.1	2292.2	2301.9	2300.6	2313.9	2316.3	2318.7	2332.0
7.5°	2289.8	2291.0	2299.4	2295.8	2271.7	2286.2	2285.0	2300.6	2305.5	2310.3	2322.4
10°	2266.9	2265.7	2275.3	2271.7	2248.8	2265.7	2264.5	2280.1	2287.4	2295.8	2310.3
12.5°	2254.8	2251.2	2254.8	2251.2	2225.9	2239.1	2240.3	2258.4	2266.9	2277.7	2294.6
15°	2254.8	2248.8	2248.8	2241.5	2212.6	2221.0	2222.2	2234.3	2245.2	2256.0	2276.5
17.5°	2252.4	2246.4	2245.2	2239.1	2207.8	2207.8	2206.5	2215.0	2221.0	2231.9	2253.6
20°	2239.1	2236.7	2235.5	2231.9	2202.9	2198.1	2195.7	2195.7	2199.3	2202.9	2224.6
22.5°	2204.1	2206.5	2209.0	2211.4	2188.5	2180.0	2181.2	2178.8	2175.2	2175.2	2193.3
25°	2139.0	2151.1	2160.7	2171.6	2158.3	2152.3	2159.5	2155.9	2149.8	2145.0	2160.7
27.5°	2035.2	2060.6	2081.1	2107.6	2108.8	2104.0	2123.3	2120.9	2119.7	2112.4	2124.5
30°	1891.7	1931.5	1959.2	1997.8	2030.4	2035.2	2067.8	2072.6	2077.5	2073.8	2085.9
32.5°	1717.9	1772.2	1819.3	1879.6	1911.0	1938.7	1984.6	2003.9	2023.2	2029.2	2042.5
35°	1528.5	1590.1	1645.6	1711.9	1761.4	1821.7	1877.2	1906.1	1949.6	1966.5	1985.8
37.5°	1348.8	1406.7	1461.0	1527.3	1607.0	1669.7	1738.5	1803.6	1862.7	1886.8	1915.8
40°	1189.5	1236.6	1288.5	1346.4	1418.8	1500.8	1575.6	1666.1	1736.0	1784.3	1826.5
42.5°	1068.9	1091.8	1136.5	1188.3	1246.2	1329.5	1405.5	1506.8	1591.3	1660.0	1730.0
45°	961.5	972.4	1005.0	1032.7	1091.8	1165.4	1246.2	1345.2	1433.2	1521.3	1605.7
47.5°	869.8	883.1	898.8	915.7	957.9	1019.4	1089.4	1178.7	1266.7	1369.3	1465.8
50°	808.3	811.9	814.3	821.6	846.9	889.1	945.8	1021.8	1106.3	1216.1	1318.6
52.5°	754.0	754.0	746.8	743.2	752.8	779.3	811.9	866.2	953.1	1054.4	1163.0
55°	696.1	685.2	682.8	670.8	673.2	685.2	700.9	743.2	814.3	901.2	1006.2
57.5°	615.3	610.4	610.4	605.6	596.0	602.0	605.6	635.8	686.5	761.3	852.9
60°	522.4	520.0	526.0	527.2	518.8	522.4	521.2	539.3	575.5	635.8	711.8
62.5°	429.5	440.3	441.6	446.4	441.6	440.3	446.4	462.1	480.2	526.0	585.1
65°	360.7	366.8	368.0	374.0	371.6	371.6	376.4	388.5	399.3	430.7	476.5
67.5°	316.1	313.7	314.9	318.5	314.9	313.7	317.3	324.5	333.0	352.3	384.8
70°	281.1	278.7	278.7	278.7	273.9	270.2	271.4	273.9	277.5	288.3	308.8
72.5°	254.6	254.6	250.9	247.3	243.7	241.3	238.9	236.5	235.3	238.9	249.7
75°	230.4	231.6	230.4	226.8	222.0	217.2	212.3	207.5	201.5	199.1	200.3
77.5°	208.7	209.9	211.1	209.9	205.1	199.1	191.8	184.6	176.1	167.7	162.9
80°	189.4	191.8	193.0	191.8	188.2	183.4	174.9	166.5	154.4	143.6	131.5
82.5°	172.5	176.1	177.3	177.3	174.9	170.1	160.5	150.8	137.5	123.1	107.4
85°	159.2	161.7	164.1	164.1	162.9	158.0	148.4	137.5	124.3	107.4	90.5
87.5°	146.0	147.2	149.6	152.0	149.6	144.8	136.3	124.3	111.0	94.1	74.8
90°	132.7	133.9	136.3	138.7	137.5	132.7	125.5	114.6	100.1	82.0	62.7
92.5°	119.4	121.8	123.1	124.3	125.5	121.8	115.8	105.0	90.5	72.4	54.3
95°	109.8	109.8	112.2	113.4	114.6	111.0	106.2	95.3	82.0	65.1	47.1
97.5°	100.1	100.1	102.5	102.5	103.8	101.3	96.5	86.9	73.6	57.9	39.8
100°	90.5	91.7	92.9	94.1	94.1	92.9	88.1	78.4	66.4	51.9	35.0
102.5°	84.4	84.4	85.7	85.7	86.9	84.4	79.6	71.2	59.1	45.8	30.2
105°	78.4	78.4	79.6	79.6	78.4	76.0	71.2	63.9	53.1	39.8	26.5
107.5°	73.6	73.6	73.6	73.6	72.4	70.0	65.1	56.7	47.1	36.2	24.1
110°	70.0	68.8	68.8	67.6	66.4	62.7	57.9	50.7	42.2	31.4	20.5

TEST NUMBER: P1213511

CATALOG NUMBER: 4SNLED-LD5-66SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	66.4	65.1	63.9	62.7	60.3	56.7	51.9	45.8	37.4	27.7	18.1
115°	62.7	61.5	60.3	57.9	55.5	51.9	47.1	41.0	32.6	24.1	15.7
117.5°	59.1	57.9	55.5	53.1	50.7	47.1	42.2	36.2	29.0	21.7	14.5
120°	54.3	53.1	51.9	49.5	47.1	42.2	37.4	32.6	25.3	19.3	12.1
122.5°	50.7	49.5	47.1	45.8	42.2	38.6	33.8	29.0	22.9	16.9	10.9
125°	45.8	44.6	43.4	41.0	38.6	33.8	30.2	25.3	20.5	14.5	8.4
127.5°	42.2	41.0	38.6	36.2	33.8	30.2	26.5	22.9	18.1	12.1	8.4
130°	37.4	36.2	35.0	32.6	30.2	26.5	24.1	19.3	15.7	10.9	7.2
132.5°	32.6	32.6	31.4	29.0	26.5	24.1	20.5	16.9	13.3	9.7	6.0
135°	30.2	29.0	27.7	25.3	24.1	20.5	18.1	14.5	10.9	8.4	4.8
137.5°	26.5	25.3	24.1	22.9	20.5	18.1	15.7	12.1	9.7	7.2	4.8
140°	22.9	21.7	21.7	19.3	18.1	15.7	13.3	10.9	8.4	6.0	3.6
142.5°	20.5	19.3	18.1	16.9	15.7	13.3	10.9	8.4	7.2	4.8	3.6
145°	18.1	16.9	15.7	14.5	13.3	10.9	9.7	7.2	6.0	4.8	3.6
147.5°	14.5	14.5	13.3	12.1	10.9	9.7	8.4	7.2	4.8	3.6	2.4
150°	12.1	12.1	10.9	9.7	9.7	8.4	7.2	6.0	4.8	3.6	2.4
152.5°	10.9	9.7	9.7	8.4	8.4	7.2	6.0	4.8	3.6	3.6	2.4
155°	8.4	8.4	8.4	7.2	7.2	6.0	4.8	4.8	3.6	2.4	2.4
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: P1213511

CATALOG NUMBER: 4SNLED-LD5-66SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2335.6	2335.6	2335.6	2335.6	2335.6	2335.6	2335.6	2335.6	2335.6	2335.6	2335.6
2.5°	2339.3	2324.8	2336.8	2358.6	2356.1	2353.7	2351.3	2356.1	2371.8	2363.4	2350.1
5°	2335.6	2321.2	2334.4	2354.9	2353.7	2350.1	2347.7	2352.5	2368.2	2359.8	2345.3
7.5°	2328.4	2315.1	2324.8	2345.3	2345.3	2342.9	2340.5	2345.3	2359.8	2352.5	2338.0
10°	2316.3	2306.7	2316.3	2335.6	2336.8	2332.0	2329.6	2335.6	2350.1	2346.5	2334.4
12.5°	2306.7	2297.0	2307.9	2327.2	2328.4	2323.6	2320.0	2327.2	2346.5	2348.9	2345.3
15°	2293.4	2285.0	2298.2	2318.7	2318.7	2315.1	2315.1	2324.8	2351.3	2362.2	2368.2
17.5°	2274.1	2268.1	2283.8	2304.3	2305.5	2303.1	2304.3	2323.6	2358.6	2385.1	2402.0
20°	2250.0	2247.6	2264.5	2286.2	2289.8	2291.0	2297.0	2326.0	2374.2	2410.4	2427.3
22.5°	2221.0	2222.2	2241.5	2264.5	2269.3	2272.9	2285.0	2326.0	2386.3	2424.9	2432.1
25°	2188.5	2192.1	2212.6	2240.3	2246.4	2253.6	2274.1	2327.2	2389.9	2415.3	2403.2
27.5°	2153.5	2160.7	2187.2	2216.2	2223.4	2235.5	2262.0	2320.0	2373.0	2374.2	2329.6
30°	2117.3	2125.7	2157.1	2190.9	2202.9	2215.0	2247.6	2303.1	2332.0	2293.4	2215.0
32.5°	2076.3	2088.3	2119.7	2160.7	2175.2	2190.9	2223.4	2270.5	2259.6	2176.4	2064.2
35°	2024.4	2041.3	2077.5	2125.7	2139.0	2159.5	2182.4	2193.3	2145.0	2026.8	1900.1
37.5°	1960.4	1985.8	2028.0	2083.5	2098.0	2111.2	2117.3	2087.1	1990.6	1862.7	1731.2
40°	1886.8	1925.5	1971.3	2032.8	2047.3	2047.3	2025.6	1961.6	1839.8	1672.1	1526.1
42.5°	1797.6	1844.6	1902.5	1964.1	1978.5	1961.6	1909.8	1797.6	1658.8	1471.8	1317.4
45°	1689.0	1751.7	1816.9	1880.8	1888.1	1850.7	1757.8	1615.4	1444.1	1270.4	1123.2
47.5°	1559.9	1641.9	1713.1	1785.5	1775.9	1713.1	1588.9	1427.2	1246.2	1082.2	963.9
50°	1415.1	1511.6	1591.3	1660.0	1639.5	1552.7	1406.7	1237.8	1058.0	918.1	820.4
52.5°	1260.7	1371.7	1451.3	1506.8	1479.1	1375.3	1214.9	1053.2	906.0	778.1	713.0
55°	1100.3	1212.5	1294.5	1337.9	1301.7	1189.5	1031.5	884.3	745.6	662.3	623.7
57.5°	944.6	1049.6	1126.8	1161.8	1115.9	1003.7	857.8	733.5	633.4	563.4	544.1
60°	795.0	880.7	954.3	980.8	931.4	827.6	702.1	603.2	529.6	481.4	471.7
62.5°	656.3	726.3	784.2	804.7	756.4	675.6	567.0	493.4	441.6	417.4	405.4
65°	541.7	582.7	641.8	638.2	609.2	534.4	454.8	402.9	369.2	353.5	346.2
67.5°	425.9	463.3	500.7	505.5	469.3	417.4	365.5	328.1	310.1	301.6	298.0
70°	329.4	357.1	380.0	374.0	354.7	322.1	289.5	269.0	261.8	258.2	258.2
72.5°	255.8	270.2	281.1	273.9	261.8	244.9	229.2	220.8	222.0	224.4	226.8
75°	197.9	201.5	203.9	196.6	194.2	183.4	182.2	183.4	190.6	197.9	201.5
77.5°	152.0	147.2	143.6	136.3	137.5	136.3	142.4	152.0	162.9	173.7	183.4
80°	117.0	106.2	97.7	90.5	94.1	100.1	112.2	126.7	141.2	153.2	165.3
82.5°	90.5	74.8	62.7	55.5	62.7	72.4	88.1	106.2	123.1	136.3	149.6
85°	70.0	51.9	37.4	30.2	37.4	51.9	68.8	89.3	107.4	121.8	135.1
87.5°	54.3	37.4	20.5	12.1	20.5	36.2	55.5	74.8	92.9	109.8	123.1
90°	43.4	25.3	9.7	2.4	10.9	25.3	43.4	62.7	80.8	98.9	112.2
92.5°	35.0	18.1	4.8	0.0	6.0	19.3	36.2	54.3	72.4	89.3	102.5
95°	29.0	14.5	3.6	0.0	4.8	14.5	29.0	47.1	63.9	80.8	91.7
97.5°	24.1	10.9	2.4	0.0	2.4	12.1	24.1	39.8	56.7	72.4	83.2
100°	20.5	9.7	2.4	0.0	2.4	9.7	20.5	35.0	49.5	63.9	74.8
102.5°	16.9	7.2	1.2	1.2	1.2	7.2	18.1	30.2	43.4	56.7	67.6
105°	15.7	6.0	1.2	1.2	1.2	6.0	15.7	26.5	38.6	50.7	60.3
107.5°	13.3	4.8	1.2	1.2	1.2	4.8	13.3	22.9	35.0	45.8	54.3
110°	10.9	4.8	1.2	1.2	1.2	4.8	10.9	20.5	30.2	39.8	48.3

TEST NUMBER: P1213511

CATALOG NUMBER: 4SNLED-LD5-66SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	9.7	3.6	1.2	1.2	1.2	3.6	9.7	18.1	26.5	36.2	43.4
115°	8.4	3.6	1.2	1.2	1.2	3.6	8.4	15.7	22.9	31.4	38.6
117.5°	7.2	3.6	1.2	1.2	1.2	2.4	7.2	13.3	20.5	27.7	35.0
120°	6.0	2.4	1.2	1.2	1.2	2.4	6.0	12.1	18.1	24.1	30.2
122.5°	6.0	2.4	1.2	1.2	1.2	2.4	4.8	9.7	15.7	20.5	26.5
125°	4.8	2.4	1.2	1.2	1.2	1.2	4.8	8.4	13.3	18.1	22.9
127.5°	4.8	2.4	1.2	1.2	1.2	1.2	3.6	7.2	10.9	15.7	20.5
130°	3.6	2.4	1.2	1.2	1.2	1.2	2.4	6.0	9.7	13.3	16.9
132.5°	3.6	2.4	1.2	1.2	1.2	1.2	2.4	4.8	7.2	10.9	14.5
135°	3.6	1.2	1.2	1.2	1.2	1.2	1.2	3.6	6.0	8.4	10.9
137.5°	2.4	1.2	1.2	1.2	1.2	1.2	1.2	2.4	4.8	6.0	9.7
140°	2.4	1.2	1.2	1.2	1.2	1.2	1.2	2.4	3.6	4.8	7.2
142.5°	2.4	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	3.6	6.0
145°	2.4	1.2	1.2	2.4	2.4	1.2	1.2	2.4	2.4	3.6	4.8
147.5°	2.4	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4	3.6
150°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.6
152.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
155°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
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: P1213511

CATALOG NUMBER: 4SNLED-LD5-66SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2335.6	2335.6	2335.6	2335.6	2335.6	2335.6	2335.6	2335.6	2335.6	2335.6	2335.6
2.5°	2347.7	2320.0	2334.4	2329.6	2334.4	2346.5	2345.3	2341.7	2344.1	2338.0	2332.0
5°	2342.9	2315.1	2329.6	2323.6	2329.6	2341.7	2339.3	2335.6	2339.3	2332.0	2326.0
7.5°	2336.8	2311.5	2328.4	2327.2	2338.0	2353.7	2354.9	2354.9	2363.4	2352.5	2347.7
10°	2336.8	2323.6	2346.5	2354.9	2382.7	2403.2	2405.6	2410.4	2424.9	2422.5	2410.4
12.5°	2362.2	2359.8	2393.5	2414.1	2439.4	2468.3	2484.0	2488.9	2498.5	2491.3	2486.4
15°	2394.7	2406.8	2444.2	2467.1	2494.9	2516.6	2520.2	2522.6	2529.9	2519.0	2510.6
17.5°	2438.2	2445.4	2475.6	2485.2	2503.3	2506.9	2502.1	2490.1	2490.1	2465.9	2458.7
20°	2458.7	2455.1	2467.1	2451.5	2444.2	2422.5	2402.0	2379.1	2377.9	2352.5	2350.1
22.5°	2440.6	2416.5	2391.1	2352.5	2335.6	2304.3	2276.5	2263.2	2254.8	2222.2	2213.8
25°	2376.7	2317.5	2280.1	2234.3	2193.3	2157.1	2130.5	2102.8	2076.3	2049.7	2037.6
27.5°	2265.7	2210.2	2149.8	2085.9	2029.2	1973.7	1929.1	1901.3	1876.0	1841.0	1822.9
30°	2129.3	2052.1	1985.8	1924.2	1831.3	1763.8	1726.4	1670.9	1651.6	1635.9	1602.1
32.5°	1968.9	1876.0	1785.5	1702.3	1607.0	1544.2	1494.8	1453.7	1441.7	1400.7	1391.0
35°	1791.5	1669.7	1567.1	1485.1	1416.3	1340.3	1299.3	1271.6	1247.4	1219.7	1214.9
37.5°	1582.8	1473.0	1357.2	1284.8	1230.6	1165.4	1134.0	1114.7	1103.9	1083.4	1079.7
40°	1372.9	1263.1	1183.5	1111.1	1077.3	1042.3	1019.4	1011.0	1006.2	998.9	991.7
42.5°	1182.3	1085.8	1029.1	980.8	966.3	949.5	943.4	948.2	943.4	941.0	939.8
45°	1020.6	947.0	907.2	892.8	889.1	884.3	889.1	897.6	898.8	896.4	896.4
47.5°	873.5	838.5	821.6	824.0	830.0	833.6	842.1	852.9	855.4	849.3	851.7
50°	776.9	756.4	752.8	762.5	775.7	780.6	790.2	798.7	797.4	795.0	792.6
52.5°	686.5	680.4	690.1	699.7	714.2	716.6	720.2	723.9	722.6	717.8	715.4
55°	610.4	615.3	623.7	627.3	638.2	637.0	638.2	638.2	633.4	631.0	627.3
57.5°	541.7	542.9	547.7	548.9	555.0	552.5	551.3	548.9	541.7	540.5	536.9
60°	471.7	469.3	480.2	471.7	476.5	471.7	470.5	464.5	457.2	456.0	453.6
62.5°	405.4	400.5	407.8	404.2	406.6	401.7	399.3	392.1	386.1	384.8	383.6
65°	346.2	343.8	351.1	349.9	352.3	346.2	343.8	339.0	334.2	333.0	331.8
67.5°	296.8	302.8	306.4	306.4	308.8	307.6	301.6	300.4	299.2	294.4	294.4
70°	260.6	264.2	271.4	272.7	271.4	273.9	269.0	267.8	266.6	264.2	263.0
72.5°	231.6	236.5	243.7	244.9	243.7	243.7	241.3	240.1	240.1	236.5	236.5
75°	208.7	214.7	220.8	220.8	220.8	218.4	215.9	215.9	213.5	212.3	209.9
77.5°	189.4	196.6	201.5	200.3	199.1	196.6	196.6	193.0	189.4	189.4	187.0
80°	174.9	179.8	183.4	182.2	181.0	177.3	176.1	172.5	170.1	166.5	166.5
82.5°	159.2	165.3	167.7	166.5	164.1	160.5	159.2	156.8	154.4	153.2	150.8
85°	146.0	152.0	153.2	150.8	148.4	146.0	144.8	143.6	142.4	139.9	139.9
87.5°	132.7	138.7	138.7	137.5	135.1	133.9	132.7	131.5	130.3	129.1	127.9
90°	121.8	126.7	126.7	125.5	124.3	123.1	121.8	120.6	119.4	118.2	118.2
92.5°	111.0	115.8	115.8	114.6	113.4	112.2	112.2	111.0	109.8	108.6	107.4
95°	101.3	106.2	106.2	106.2	105.0	103.8	103.8	102.5	101.3	101.3	100.1
97.5°	91.7	96.5	96.5	96.5	95.3	94.1	94.1	92.9	92.9	92.9	91.7
100°	83.2	86.9	88.1	88.1	86.9	86.9	86.9	85.7	85.7	85.7	84.4
102.5°	74.8	78.4	80.8	80.8	80.8	79.6	79.6	79.6	79.6	79.6	78.4
105°	67.6	71.2	73.6	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
107.5°	61.5	65.1	67.6	68.8	70.0	70.0	71.2	71.2	71.2	71.2	71.2
110°	55.5	59.1	62.7	63.9	65.1	66.4	66.4	67.6	66.4	66.4	66.4

TEST NUMBER: P1213511

CATALOG NUMBER: 4SNLED-LD5-66SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	49.5	54.3	56.7	59.1	60.3	61.5	62.7	62.7	62.7	62.7	62.7
115°	44.6	49.5	51.9	54.3	56.7	57.9	57.9	59.1	59.1	59.1	57.9
117.5°	39.8	44.6	47.1	49.5	50.7	53.1	54.3	54.3	54.3	54.3	53.1
120°	36.2	39.8	42.2	44.6	47.1	48.3	49.5	49.5	49.5	49.5	49.5
122.5°	31.4	35.0	38.6	41.0	42.2	43.4	44.6	44.6	44.6	44.6	44.6
125°	27.7	31.4	33.8	36.2	37.4	39.8	39.8	39.8	39.8	39.8	39.8
127.5°	24.1	27.7	30.2	32.6	33.8	35.0	36.2	36.2	36.2	36.2	36.2
130°	20.5	24.1	26.5	29.0	30.2	31.4	31.4	32.6	32.6	32.6	32.6
132.5°	18.1	20.5	22.9	25.3	26.5	27.7	27.7	29.0	29.0	29.0	29.0
135°	14.5	18.1	19.3	21.7	22.9	24.1	24.1	25.3	25.3	25.3	25.3
137.5°	12.1	14.5	16.9	19.3	20.5	20.5	21.7	21.7	22.9	22.9	22.9
140°	9.7	10.9	14.5	15.7	16.9	18.1	19.3	19.3	19.3	19.3	19.3
142.5°	7.2	9.7	10.9	13.3	14.5	15.7	16.9	16.9	16.9	16.9	16.9
145°	6.0	7.2	8.4	10.9	12.1	13.3	14.5	14.5	14.5	14.5	14.5
147.5°	4.8	6.0	7.2	8.4	9.7	10.9	12.1	12.1	12.1	12.1	12.1
150°	3.6	4.8	6.0	6.0	7.2	8.4	9.7	10.9	10.9	10.9	10.9
152.5°	3.6	3.6	4.8	4.8	6.0	7.2	8.4	8.4	8.4	8.4	8.4
155°	2.4	3.6	3.6	3.6	4.8	4.8	6.0	7.2	7.2	7.2	7.2
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213511

CATALOG NUMBER: 4SNLED-LD5-66SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2335.6	2335.6	2335.6	2335.6	2335.6	2335.6	2335.6	2335.6	2335.6	2335.6	2335.6
2.5°	2335.6	2340.5	2338.0	2334.4	2333.2	2339.3	2333.2	2305.5	2316.3	2317.5	2326.0
5°	2332.0	2335.6	2333.2	2330.8	2327.2	2334.4	2327.2	2298.2	2309.1	2310.3	2318.7
7.5°	2356.1	2357.4	2357.4	2351.3	2341.7	2345.3	2335.6	2303.1	2309.1	2309.1	2315.1
10°	2416.5	2418.9	2422.5	2406.8	2394.7	2385.1	2371.8	2332.0	2330.8	2321.2	2321.2
12.5°	2494.9	2488.9	2482.8	2475.6	2465.9	2453.9	2434.6	2387.5	2371.8	2356.1	2340.5
15°	2517.8	2515.4	2514.2	2510.6	2504.5	2500.9	2486.4	2439.4	2416.5	2397.2	2369.4
17.5°	2457.5	2462.3	2478.0	2479.2	2486.4	2500.9	2498.5	2465.9	2445.4	2437.0	2403.2
20°	2348.9	2350.1	2369.4	2377.9	2409.2	2433.4	2451.5	2447.8	2443.0	2452.7	2427.3
22.5°	2218.6	2227.1	2247.6	2260.8	2291.0	2318.7	2347.7	2363.4	2388.7	2428.5	2423.7
25°	2041.3	2052.1	2081.1	2102.8	2145.0	2187.2	2225.9	2253.6	2283.8	2359.8	2385.1
27.5°	1828.9	1845.8	1883.2	1904.9	1964.1	2007.5	2063.0	2117.3	2159.5	2246.4	2298.2
30°	1605.7	1620.2	1660.0	1690.2	1740.9	1800.0	1870.0	1947.2	2017.1	2105.2	2170.4
32.5°	1397.0	1412.7	1445.3	1471.8	1528.5	1578.0	1655.2	1750.5	1815.7	1937.5	2024.4
35°	1214.9	1229.3	1252.3	1275.2	1322.2	1372.9	1439.3	1532.2	1615.4	1742.1	1851.9
37.5°	1087.0	1089.4	1102.7	1115.9	1150.9	1189.5	1241.4	1323.4	1400.7	1537.0	1657.6
40°	995.3	995.3	1002.5	1006.2	1021.8	1044.8	1077.3	1141.3	1205.2	1309.0	1456.2
42.5°	938.6	936.2	936.2	937.4	936.2	947.0	966.3	996.5	1053.2	1138.9	1253.5
45°	896.4	891.5	887.9	879.5	874.7	874.7	875.9	886.7	919.3	974.8	1067.7
47.5°	849.3	848.1	842.1	832.4	824.0	818.0	808.3	804.7	814.3	845.7	908.4
50°	795.0	789.0	783.0	775.7	766.1	760.0	742.0	743.2	734.7	749.2	781.8
52.5°	715.4	710.6	708.2	702.1	698.5	696.1	681.6	667.2	663.5	665.9	678.0
55°	627.3	629.8	620.1	624.9	623.7	612.9	606.8	596.0	592.4	591.1	597.2
57.5°	535.7	538.1	532.0	536.9	536.9	530.8	527.2	527.2	518.8	511.5	520.0
60°	452.4	447.6	451.2	457.2	457.2	453.6	451.2	451.2	445.2	442.8	448.8
62.5°	384.8	380.0	383.6	389.7	390.9	388.5	386.1	386.1	378.8	378.8	383.6
65°	333.0	334.2	333.0	337.8	337.8	339.0	336.6	334.2	325.7	329.4	328.1
67.5°	295.6	294.4	294.4	299.2	298.0	300.4	298.0	294.4	288.3	283.5	282.3
70°	264.2	263.0	263.0	265.4	266.6	266.6	265.4	263.0	254.6	249.7	246.1
72.5°	236.5	235.3	236.5	237.7	238.9	240.1	238.9	236.5	229.2	223.2	217.2
75°	211.1	209.9	213.5	213.5	214.7	214.7	215.9	214.7	208.7	201.5	194.2
77.5°	185.8	187.0	190.6	191.8	194.2	195.4	196.6	196.6	190.6	184.6	174.9
80°	165.3	167.7	170.1	171.3	173.7	177.3	178.6	179.8	174.9	168.9	158.0
82.5°	150.8	152.0	154.4	155.6	159.2	160.5	161.7	164.1	161.7	155.6	143.6
85°	138.7	139.9	142.4	142.4	144.8	147.2	148.4	149.6	148.4	142.4	130.3
87.5°	127.9	129.1	130.3	131.5	132.7	133.9	135.1	136.3	135.1	129.1	118.2
90°	118.2	118.2	119.4	119.4	120.6	121.8	124.3	124.3	123.1	118.2	107.4
92.5°	107.4	108.6	108.6	109.8	111.0	112.2	113.4	113.4	112.2	107.4	97.7
95°	100.1	100.1	101.3	101.3	102.5	102.5	103.8	103.8	102.5	97.7	88.1
97.5°	91.7	91.7	91.7	91.7	92.9	92.9	94.1	94.1	92.9	88.1	79.6
100°	84.4	84.4	84.4	84.4	84.4	85.7	85.7	85.7	84.4	79.6	71.2
102.5°	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	76.0	72.4	63.9
105°	74.8	74.8	74.8	73.6	73.6	73.6	72.4	72.4	68.8	65.1	57.9
107.5°	70.0	70.0	70.0	68.8	68.8	67.6	66.4	66.4	62.7	59.1	51.9
110°	66.4	66.4	66.4	65.1	63.9	62.7	61.5	60.3	56.7	51.9	45.8

TEST NUMBER: P1213511

CATALOG NUMBER: 4SNLED-LD5-66SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	62.7	62.7	61.5	61.5	60.3	59.1	56.7	55.5	51.9	47.1	41.0
115°	57.9	57.9	57.9	56.7	55.5	54.3	53.1	50.7	47.1	42.2	36.2
117.5°	53.1	53.1	53.1	51.9	50.7	49.5	48.3	45.8	42.2	37.4	32.6
120°	48.3	48.3	48.3	47.1	45.8	44.6	43.4	41.0	37.4	33.8	27.7
122.5°	44.6	44.6	43.4	42.2	41.0	39.8	38.6	36.2	33.8	29.0	24.1
125°	39.8	39.8	38.6	38.6	37.4	36.2	35.0	32.6	29.0	25.3	21.7
127.5°	36.2	35.0	35.0	35.0	33.8	32.6	30.2	29.0	25.3	21.7	18.1
130°	31.4	31.4	31.4	30.2	30.2	29.0	26.5	24.1	21.7	19.3	15.7
132.5°	27.7	27.7	27.7	27.7	26.5	25.3	22.9	21.7	19.3	15.7	13.3
135°	25.3	25.3	24.1	24.1	22.9	21.7	20.5	18.1	15.7	13.3	10.9
137.5°	21.7	21.7	21.7	20.5	20.5	19.3	16.9	15.7	14.5	12.1	9.7
140°	19.3	19.3	18.1	18.1	16.9	16.9	15.7	13.3	12.1	9.7	8.4
142.5°	16.9	16.9	15.7	15.7	14.5	14.5	13.3	12.1	9.7	8.4	6.0
145°	14.5	14.5	13.3	13.3	13.3	12.1	10.9	9.7	8.4	7.2	6.0
147.5°	12.1	12.1	12.1	10.9	10.9	9.7	9.7	8.4	7.2	6.0	4.8
150°	10.9	10.9	9.7	9.7	9.7	8.4	7.2	7.2	6.0	4.8	3.6
152.5°	8.4	8.4	8.4	8.4	7.2	7.2	6.0	6.0	4.8	3.6	3.6
155°	7.2	7.2	7.2	6.0	6.0	6.0	4.8	4.8	3.6	3.6	2.4
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

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CATALOG NUMBER: 4SNLED-LD5-66SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2335.6	2335.6	2335.6	2335.6	2335.6	2335.6	2335.6
2.5°	2322.4	2321.2	2332.0	2330.8	2316.3	2338.0	2352.5
5°	2316.3	2315.1	2324.8	2327.2	2311.5	2334.4	2350.1
7.5°	2311.5	2310.3	2321.2	2324.8	2309.1	2329.6	2346.5
10°	2312.7	2306.7	2316.3	2318.7	2304.3	2326.0	2340.5
12.5°	2321.2	2306.7	2310.3	2310.3	2297.0	2316.3	2332.0
15°	2341.7	2311.5	2306.7	2303.1	2286.2	2304.3	2320.0
17.5°	2364.6	2323.6	2306.7	2294.6	2274.1	2289.8	2306.7
20°	2387.5	2336.8	2309.1	2289.8	2262.0	2276.5	2288.6
22.5°	2398.4	2348.9	2311.5	2282.6	2247.6	2254.8	2268.1
25°	2383.9	2344.1	2306.7	2271.7	2229.5	2230.7	2241.5
27.5°	2330.8	2320.0	2295.8	2260.8	2215.0	2209.0	2217.4
30°	2240.3	2270.5	2271.7	2246.4	2198.1	2186.0	2189.7
32.5°	2113.7	2181.2	2221.0	2216.2	2174.0	2157.1	2159.5
35°	1967.7	2052.1	2139.0	2167.9	2137.8	2124.5	2119.7
37.5°	1792.7	1906.1	2022.0	2093.1	2088.3	2079.9	2075.0
40°	1599.7	1736.0	1873.6	1987.0	2022.0	2022.0	2024.4
42.5°	1393.4	1552.7	1703.5	1847.0	1929.1	1947.2	1954.4
45°	1194.4	1354.8	1518.9	1684.2	1794.0	1850.7	1871.2
47.5°	1013.4	1175.1	1330.7	1511.6	1657.6	1731.2	1763.8
50°	859.0	979.6	1143.7	1323.4	1482.7	1573.2	1637.1
52.5°	731.1	825.2	968.8	1136.5	1296.9	1421.2	1480.3
55°	623.7	687.7	809.5	954.3	1107.5	1236.6	1305.3
57.5°	533.2	583.9	667.2	787.8	916.9	1044.8	1118.4
60°	453.6	488.6	545.3	640.6	750.4	860.2	931.4
62.5°	384.8	407.8	445.2	515.1	600.8	686.5	752.8
65°	331.8	341.4	361.9	405.4	470.5	535.7	592.4
67.5°	279.9	285.9	301.6	328.1	360.7	407.8	445.2
70°	241.3	241.3	242.5	258.2	275.1	305.2	331.8
72.5°	209.9	206.3	199.1	202.7	206.3	223.2	240.1
75°	184.6	176.1	164.1	159.2	156.8	159.2	168.9
77.5°	162.9	150.8	136.3	124.3	114.6	111.0	119.4
80°	144.8	130.3	113.4	97.7	82.0	73.6	77.2
82.5°	130.3	112.2	94.1	76.0	57.9	45.8	45.8
85°	114.6	97.7	78.4	59.1	41.0	25.3	22.9
87.5°	103.8	85.7	65.1	47.1	29.0	13.3	7.2
90°	92.9	74.8	55.5	37.4	20.5	6.0	0.0
92.5°	83.2	66.4	48.3	30.2	14.5	3.6	0.0
95°	74.8	59.1	41.0	25.3	12.1	2.4	1.2
97.5°	66.4	51.9	36.2	20.5	8.4	2.4	1.2
100°	60.3	45.8	31.4	16.9	7.2	1.2	1.2
102.5°	53.1	41.0	26.5	14.5	6.0	1.2	1.2
105°	47.1	36.2	22.9	12.1	4.8	1.2	1.2
107.5°	42.2	31.4	20.5	10.9	4.8	1.2	1.2
110°	37.4	27.7	18.1	9.7	3.6	1.2	1.2

TEST NUMBER: P1213511

CATALOG NUMBER: 4SNLED-LD5-66SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	33.8	24.1	15.7	8.4	2.4	1.2	1.2
115°	29.0	21.7	13.3	7.2	2.4	1.2	1.2
117.5°	25.3	18.1	12.1	6.0	2.4	1.2	1.2
120°	21.7	15.7	9.7	4.8	1.2	1.2	1.2
122.5°	19.3	13.3	8.4	4.8	1.2	1.2	1.2
125°	16.9	12.1	7.2	3.6	1.2	1.2	1.2
127.5°	14.5	9.7	6.0	2.4	1.2	1.2	1.2
130°	12.1	8.4	4.8	2.4	1.2	1.2	1.2
132.5°	9.7	7.2	4.8	2.4	1.2	1.2	1.2
135°	8.4	6.0	3.6	2.4	1.2	1.2	1.2
137.5°	7.2	4.8	2.4	2.4	2.4	1.2	1.2
140°	6.0	3.6	2.4	2.4	2.4	2.4	1.2
142.5°	4.8	3.6	2.4	2.4	2.4	2.4	1.2
145°	3.6	2.4	2.4	2.4	2.4	2.4	1.2
147.5°	3.6	2.4	2.4	2.4	2.4	2.4	1.2
150°	2.4	2.4	2.4	2.4	2.4	2.4	2.4
152.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4
155°	2.4	2.4	2.4	2.4	2.4	2.4	2.4
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)