

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: P1213862

Luminaire Tested: 4SNLED-LD5-66SL-LC-UNV-L940-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213862
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-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR LENSED
Light Source: -
Ballast/Driver: -

Summary

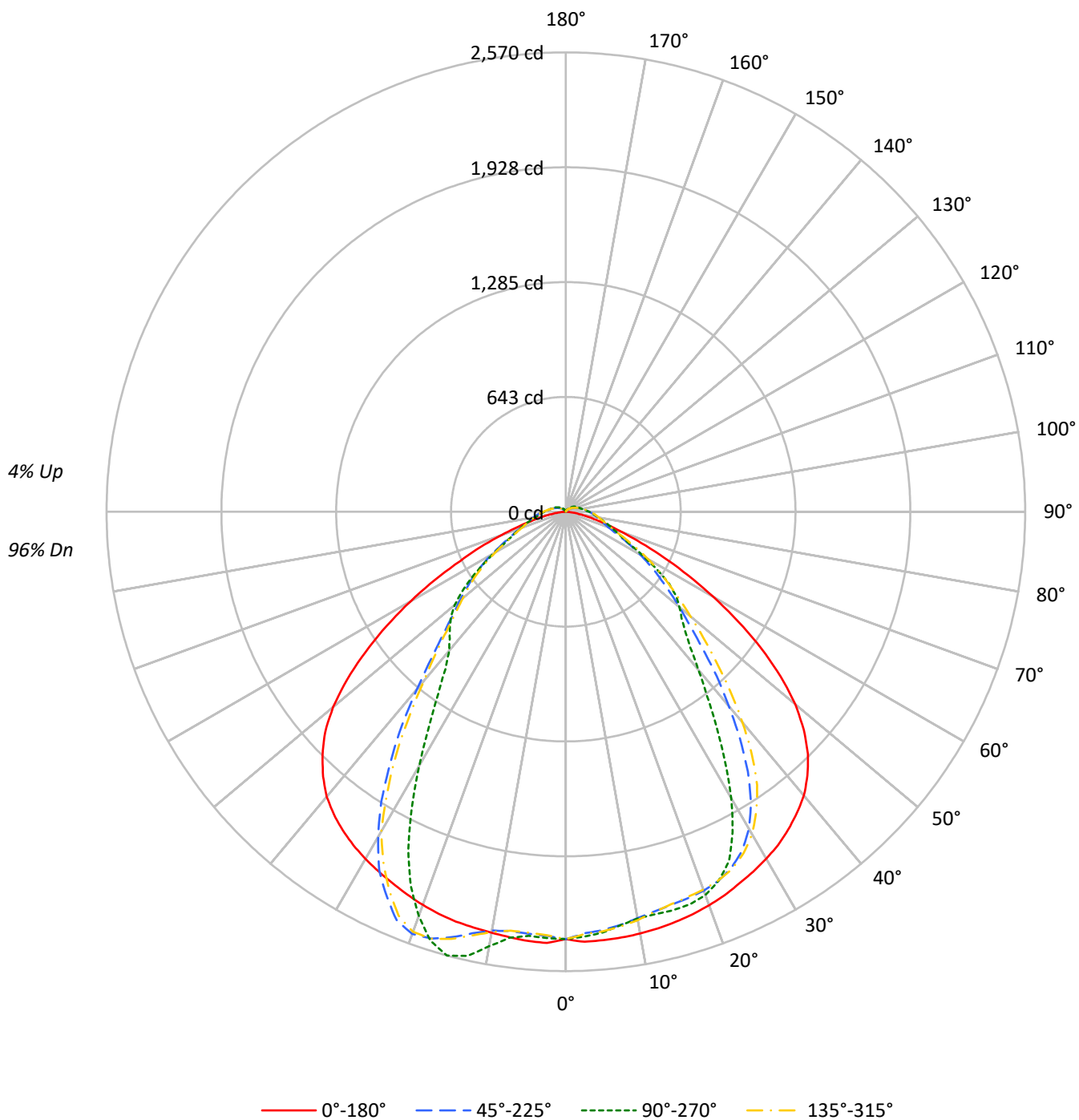
Lumens per Lamp: N/A
Luminaire Lumens: 5700.0 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	19322	19322	19322	19322
5°	19462	18556	19503	18701
10°	19552	17784	19512	18991
15°	19704	17547	19694	19537
20°	19921	17268	19900	18202
25°	20167	16381	20155	15829
30°	20546	14198	20557	12578
35°	20948	11481	21008	9716
40°	21303	9244	21392	8144
45°	21228	7830	21337	7625
50°	20313	7209	20597	7048
55°	18023	6479	18472	5890
60°	14618	4960	15395	4548
65°	10867	3795	11707	3598
70°	7389	3275	8332	3131
75°	4835	2955	5629	2795
80°	3123	2756	3661	2534
85°	1605	2748	2111	2511

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 180°

Vertical Angle: 45°

Luminance: 21337 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.1	4.0
10°-20°	675.8	11.9
20°-30°	1027.3	18.0
30°-40°	1102.1	19.3
40°-50°	956.5	16.8
50°-60°	708.9	12.4
60°-70°	406.1	7.1
70°-80°	224.9	3.9
80°-90°	137.0	2.4
90°-100°	89.1	1.6
100°-110°	59.6	1.0
110°-120°	40.3	0.7
120°-130°	24.7	0.4
130°-140°	13.0	0.2
140°-150°	5.9	0.1
150°-160°	1.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1930.2	33.9
0°-40°	3032.3	53.2
0°-60°	4697.6	82.4
0°-90°	5465.6	95.9
90°-120°	189.0	3.3
90°-150°	232.6	4.1
90°-180°	234.0	4.1
0°-180°	5700.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2391	2391	2391	2391	2391	
5°	2406	2363	2411	2381	2406	229
15°	2375	2308	2374	2570	2375	672
25°	2295	2159	2293	2086	2295	1061
35°	2170	1470	2176	1244	2170	1358
45°	1916	942	1925	918	1916	1467
55°	1336	706	1370	642	1336	1185
65°	606	358	653	340	606	611
75°	173	227	201	215	173	197
85°	24	157	31	143	24	31
90°	0	131	2	121	0	1
95°	1	107	0	102	1	1
105°	1	80	1	77	1	1
115°	1	66	1	59	1	1
125°	1	49	1	41	1	1
135°	1	31	1	26	1	1
145°	1	18	2	15	1	1
155°	2	9	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°	2391.0	2391.0	2391.0	2391.0	2391.0	2391.0	2391.0	2391.0	2391.0	2391.0	2391.0
2.5°	2408.3	2402.1	2399.7	2394.7	2398.4	2413.2	2403.4	2387.3	2388.5	2360.1	2375.0
5°	2405.8	2398.4	2394.7	2389.8	2392.2	2405.8	2395.9	2379.9	2378.7	2350.2	2363.8
7.5°	2402.1	2394.7	2388.5	2384.8	2386.1	2397.2	2384.8	2366.3	2362.6	2331.7	2344.1
10°	2395.9	2391.0	2382.4	2376.2	2375.0	2387.3	2367.5	2349.0	2340.4	2308.3	2320.6
12.5°	2387.3	2379.9	2371.2	2360.1	2358.9	2366.3	2350.2	2324.3	2315.7	2289.7	2303.3
15°	2375.0	2366.3	2356.4	2344.1	2337.9	2342.8	2323.1	2299.6	2298.4	2276.1	2294.7
17.5°	2361.4	2349.0	2337.9	2320.6	2312.0	2315.7	2299.6	2278.6	2281.1	2267.5	2288.5
20°	2342.8	2329.3	2312.0	2294.7	2282.3	2288.5	2277.4	2261.3	2265.0	2255.2	2273.7
22.5°	2321.8	2303.3	2282.3	2262.6	2252.7	2261.3	2252.7	2239.1	2240.3	2234.2	2245.3
25°	2294.7	2273.7	2249.0	2224.3	2219.3	2225.5	2220.6	2209.5	2204.5	2194.6	2199.6
27.5°	2270.0	2246.5	2215.6	2189.7	2181.1	2193.4	2182.3	2163.8	2150.2	2136.6	2126.7
30°	2241.6	2213.2	2178.6	2148.9	2141.5	2146.5	2130.4	2102.0	2066.2	2048.9	2021.7
32.5°	2210.7	2173.6	2130.4	2097.1	2092.1	2088.4	2058.8	2018.0	1962.5	1927.9	1885.9
35°	2169.9	2129.2	2077.3	2036.6	2029.1	2008.1	1960.0	1905.6	1834.0	1774.7	1703.1
37.5°	2124.2	2076.1	2021.7	1967.4	1946.4	1904.4	1836.5	1779.7	1671.0	1599.4	1512.9
40°	2072.4	2014.3	1947.6	1882.2	1847.6	1779.7	1701.9	1617.9	1512.9	1416.6	1343.7
42.5°	2000.7	1939.0	1859.9	1787.1	1727.8	1637.6	1546.2	1427.7	1331.4	1249.8	1175.7
45°	1915.5	1841.4	1750.0	1662.3	1587.0	1479.6	1372.1	1253.5	1173.3	1078.2	1027.5
47.5°	1805.6	1725.3	1627.8	1530.2	1431.4	1312.8	1200.4	1086.8	1006.5	938.6	901.6
50°	1675.9	1601.8	1494.4	1378.3	1269.6	1146.1	1033.7	948.5	870.7	828.7	800.3
52.5°	1515.4	1446.2	1336.3	1210.3	1105.3	984.3	881.8	812.6	757.1	726.2	716.3
55°	1336.3	1275.8	1167.1	1049.8	942.3	831.2	753.4	692.8	657.0	638.5	639.7
57.5°	1144.9	1097.9	995.4	890.5	789.2	705.2	634.8	586.6	559.5	558.2	561.9
60°	953.4	918.9	829.9	739.8	650.9	582.9	531.1	497.7	480.4	481.7	480.4
62.5°	770.7	738.5	674.3	600.2	529.8	484.1	437.2	423.6	408.8	407.6	407.6
65°	606.4	581.7	529.8	476.7	423.6	394.0	370.5	354.5	343.3	340.9	342.1
67.5°	455.7	445.8	410.0	374.2	340.9	322.3	302.6	298.9	290.2	290.2	292.7
70°	339.6	332.2	312.5	291.5	277.9	265.5	255.6	255.6	254.4	253.2	259.4
72.5°	245.8	247.0	240.8	224.8	223.5	221.1	218.6	222.3	223.5	227.2	234.7
75°	172.9	176.6	176.6	174.1	179.1	185.3	189.0	195.1	202.5	207.5	216.1
77.5°	122.3	122.3	128.4	135.9	145.7	156.8	166.7	175.4	185.3	191.4	198.8
80°	79.0	82.7	92.6	106.2	119.8	134.6	148.2	159.3	169.2	179.1	184.0
82.5°	46.9	53.1	65.5	82.7	100.0	118.6	132.1	145.7	156.8	166.7	170.4
85°	23.5	32.1	46.9	65.5	84.0	103.7	121.0	133.4	145.7	154.4	159.3
87.5°	7.4	17.3	33.3	50.6	70.4	90.2	108.7	122.3	133.4	140.8	145.7
90°	0.0	8.6	23.5	42.0	60.5	80.3	97.6	112.4	123.5	129.7	133.4
92.5°	0.0	4.9	18.5	34.6	51.9	71.6	88.9	102.5	112.4	118.6	121.0
95°	1.2	3.7	13.6	28.4	45.7	64.2	80.3	92.6	102.5	108.7	109.9
97.5°	1.2	2.5	11.1	23.5	39.5	56.8	72.9	85.2	92.6	98.8	100.0
100°	1.2	2.5	8.6	21.0	34.6	50.6	65.5	76.6	85.2	90.2	91.4
102.5°	1.2	1.2	7.4	17.3	30.9	44.5	58.0	69.2	76.6	81.5	84.0
105°	1.2	1.2	6.2	14.8	27.2	39.5	51.9	63.0	69.2	74.1	76.6
107.5°	1.2	1.2	4.9	12.4	23.5	34.6	46.9	55.6	63.0	67.9	70.4
110°	1.2	1.2	3.7	11.1	19.8	30.9	40.8	49.4	56.8	61.8	64.2

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.2	1.2	3.7	9.9	17.3	27.2	35.8	44.5	50.6	55.6	59.3
115°	1.2	1.2	3.7	8.6	16.1	23.5	32.1	39.5	45.7	50.6	54.3
117.5°	1.2	1.2	3.7	7.4	13.6	21.0	28.4	35.8	40.8	45.7	49.4
120°	1.2	1.2	2.5	6.2	12.4	18.5	24.7	30.9	37.1	42.0	45.7
122.5°	1.2	1.2	2.5	6.2	9.9	16.1	22.2	27.2	33.3	37.1	40.8
125°	1.2	1.2	2.5	4.9	8.6	14.8	19.8	24.7	28.4	33.3	37.1
127.5°	1.2	1.2	2.5	4.9	7.4	12.4	17.3	22.2	25.9	29.6	32.1
130°	1.2	1.2	2.5	3.7	6.2	9.9	14.8	18.5	23.5	25.9	28.4
132.5°	1.2	1.2	1.2	3.7	4.9	7.4	11.1	16.1	19.8	23.5	24.7
135°	1.2	1.2	1.2	2.5	4.9	6.2	8.6	12.4	16.1	19.8	22.2
137.5°	1.2	1.2	1.2	2.5	3.7	6.2	7.4	9.9	13.6	16.1	19.8
140°	1.2	1.2	1.2	2.5	3.7	4.9	6.2	8.6	11.1	13.6	16.1
142.5°	1.2	1.2	1.2	2.5	2.5	3.7	4.9	7.4	8.6	11.1	13.6
145°	1.2	1.2	1.2	2.5	2.5	3.7	4.9	6.2	7.4	8.6	11.1
147.5°	1.2	1.2	1.2	2.5	2.5	2.5	3.7	4.9	6.2	7.4	8.6
150°	2.5	2.5	2.5	2.5	2.5	2.5	3.7	3.7	4.9	6.2	7.4
152.5°	2.5	2.5	2.5	2.5	2.5	2.5	3.7	3.7	3.7	4.9	6.2
155°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.7	3.7	4.9	4.9
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2391.0	2391.0	2391.0	2391.0	2391.0	2391.0	2391.0	2391.0	2391.0	2391.0	2391.0
2.5°	2370.0	2372.5	2387.3	2386.1	2383.6	2381.1	2381.1	2378.7	2381.1	2387.3	2384.8
5°	2357.7	2361.4	2372.5	2371.2	2368.8	2367.5	2366.3	2362.6	2365.1	2373.7	2371.2
7.5°	2335.4	2339.1	2349.0	2344.1	2340.4	2342.8	2336.7	2333.0	2337.9	2346.5	2345.3
10°	2312.0	2314.4	2326.8	2324.3	2318.1	2319.4	2313.2	2310.7	2316.9	2321.8	2323.1
12.5°	2295.9	2304.6	2315.7	2314.4	2313.2	2314.4	2308.3	2305.8	2309.5	2314.4	2313.2
15°	2292.2	2303.3	2315.7	2315.7	2316.9	2318.1	2312.0	2308.3	2312.0	2315.7	2314.4
17.5°	2288.5	2302.1	2313.2	2312.0	2313.2	2315.7	2305.8	2303.3	2308.3	2313.2	2310.7
20°	2276.1	2288.5	2295.9	2293.4	2293.4	2294.7	2282.3	2282.3	2289.7	2293.4	2294.7
22.5°	2241.6	2256.4	2256.4	2250.2	2250.2	2245.3	2241.6	2234.2	2242.8	2249.0	2253.9
25°	2189.7	2195.9	2188.5	2174.9	2167.5	2161.3	2144.0	2158.8	2158.8	2177.3	2183.5
27.5°	2116.8	2103.2	2082.2	2053.8	2047.7	2027.9	2016.8	2020.5	2026.7	2052.6	2072.4
30°	1997.0	1956.3	1920.5	1908.1	1880.9	1861.2	1841.4	1851.3	1862.4	1877.2	1918.0
32.5°	1838.9	1799.4	1741.4	1720.4	1692.0	1667.3	1643.8	1658.6	1678.4	1688.3	1732.7
35°	1657.4	1610.5	1557.4	1521.5	1491.9	1478.3	1448.7	1469.7	1490.7	1498.1	1536.4
37.5°	1464.7	1416.6	1369.6	1338.8	1310.4	1301.7	1282.0	1296.8	1312.8	1323.9	1356.1
40°	1282.0	1237.5	1201.7	1180.7	1160.9	1153.5	1146.1	1152.3	1164.6	1173.3	1198.0
42.5°	1125.1	1089.3	1064.6	1052.2	1038.7	1028.8	1030.0	1032.5	1038.7	1057.2	1068.3
45°	988.0	967.0	951.0	948.5	939.9	938.6	937.4	942.3	946.0	957.1	965.8
47.5°	878.1	869.5	865.8	870.7	874.4	869.5	871.9	878.1	885.5	885.5	884.3
50°	791.7	794.1	799.1	810.2	817.6	820.1	822.5	829.9	831.2	833.6	829.9
52.5°	721.3	723.7	737.3	754.6	763.2	766.9	771.9	779.3	779.3	781.8	776.8
55°	649.6	653.3	666.9	684.2	691.6	696.6	701.5	706.4	710.1	715.1	711.4
57.5°	570.6	581.7	590.3	595.3	600.2	603.9	607.6	608.9	616.3	617.5	623.7
60°	486.6	489.1	497.7	496.5	492.8	502.7	497.7	506.4	515.0	526.1	527.4
62.5°	406.3	407.6	413.7	411.3	416.2	415.0	418.7	418.7	424.8	429.8	436.0
65°	343.3	344.6	349.5	349.5	348.3	352.0	355.7	358.2	358.2	361.9	366.8
67.5°	296.4	300.1	305.1	307.5	310.0	310.0	313.7	314.9	317.4	318.6	321.1
70°	264.3	269.2	274.2	276.6	277.9	280.4	281.6	281.6	284.1	285.3	287.8
72.5°	240.8	245.8	249.5	249.5	251.9	253.2	253.2	254.4	255.6	258.1	260.6
75°	221.1	224.8	227.2	226.0	226.0	226.0	227.2	227.2	229.7	232.2	234.7
77.5°	202.5	206.2	206.2	203.8	203.8	203.8	203.8	205.0	206.2	208.7	211.2
80°	189.0	189.0	187.7	187.7	185.3	184.0	184.0	185.3	185.3	187.7	191.4
82.5°	174.1	174.1	172.9	171.7	170.4	169.2	169.2	170.4	171.7	172.9	175.4
85°	160.6	160.6	158.1	158.1	156.8	156.8	156.8	156.8	158.1	159.3	161.8
87.5°	147.0	145.7	144.5	143.3	143.3	143.3	143.3	143.3	144.5	147.0	148.2
90°	133.4	132.1	130.9	130.9	129.7	129.7	130.9	130.9	132.1	133.4	134.6
92.5°	121.0	119.8	118.6	118.6	117.3	117.3	118.6	117.3	119.8	119.8	121.0
95°	109.9	108.7	107.4	107.4	107.4	107.4	107.4	107.4	108.7	108.7	109.9
97.5°	100.0	98.8	97.6	97.6	98.8	97.6	98.8	98.8	98.8	100.0	101.3
100°	91.4	90.2	90.2	91.4	90.2	90.2	91.4	91.4	91.4	91.4	92.6
102.5°	84.0	84.0	84.0	84.0	84.0	84.0	85.2	85.2	85.2	85.2	86.5
105°	76.6	77.8	77.8	77.8	79.0	79.0	79.0	80.3	80.3	80.3	80.3
107.5°	71.6	72.9	72.9	74.1	74.1	75.3	75.3	75.3	75.3	76.6	76.6
110°	66.7	67.9	69.2	70.4	70.4	71.6	71.6	71.6	71.6	71.6	71.6

TEST NUMBER: P1213862

CATALOG NUMBER: 4SNLED-LD5-66SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	61.8	63.0	64.2	66.7	67.9	67.9	67.9	67.9	69.2	69.2	67.9
115°	56.8	59.3	60.5	63.0	64.2	64.2	65.5	65.5	65.5	65.5	64.2
117.5°	51.9	55.6	56.8	59.3	60.5	60.5	61.8	61.8	61.8	61.8	60.5
120°	48.2	50.6	53.1	54.3	55.6	56.8	56.8	58.0	58.0	58.0	56.8
122.5°	44.5	46.9	49.4	50.6	51.9	53.1	53.1	53.1	53.1	53.1	53.1
125°	39.5	42.0	44.5	45.7	46.9	48.2	48.2	49.4	49.4	49.4	48.2
127.5°	35.8	38.3	39.5	42.0	43.2	43.2	44.5	44.5	44.5	44.5	43.2
130°	30.9	33.3	35.8	37.1	38.3	38.3	39.5	39.5	39.5	39.5	39.5
132.5°	27.2	29.6	30.9	33.3	33.3	34.6	34.6	35.8	35.8	35.8	34.6
135°	24.7	25.9	27.2	29.6	29.6	30.9	30.9	30.9	30.9	30.9	30.9
137.5°	22.2	23.5	24.7	25.9	25.9	27.2	27.2	27.2	27.2	28.4	27.2
140°	18.5	21.0	22.2	22.2	23.5	23.5	23.5	24.7	24.7	24.7	23.5
142.5°	16.1	17.3	18.5	19.8	21.0	21.0	21.0	21.0	22.2	21.0	21.0
145°	12.4	14.8	16.1	17.3	18.5	18.5	18.5	18.5	18.5	18.5	18.5
147.5°	9.9	11.1	13.6	14.8	14.8	16.1	16.1	16.1	16.1	16.1	16.1
150°	8.6	8.6	11.1	12.4	13.6	13.6	13.6	13.6	13.6	13.6	13.6
152.5°	6.2	7.4	8.6	9.9	11.1	11.1	11.1	11.1	11.1	11.1	11.1
155°	6.2	6.2	7.4	7.4	8.6	8.6	8.6	8.6	9.9	8.6	8.6
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: P1213862

CATALOG NUMBER: 4SNLED-LD5-66SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2391.0	2391.0	2391.0	2391.0	2391.0	2391.0	2391.0	2391.0	2391.0	2391.0	2391.0
2.5°	2381.1	2379.9	2384.8	2379.9	2355.2	2365.1	2361.4	2375.0	2376.2	2379.9	2392.2
5°	2368.8	2368.8	2375.0	2370.0	2346.5	2356.4	2355.2	2368.8	2371.2	2373.7	2387.3
7.5°	2344.1	2345.3	2354.0	2350.2	2325.5	2340.4	2339.1	2355.2	2360.1	2365.1	2377.4
10°	2320.6	2319.4	2329.3	2325.5	2302.1	2319.4	2318.1	2334.2	2341.6	2350.2	2365.1
12.5°	2308.3	2304.6	2308.3	2304.6	2278.6	2292.2	2293.4	2312.0	2320.6	2331.7	2349.0
15°	2308.3	2302.1	2302.1	2294.7	2265.0	2273.7	2274.9	2287.3	2298.4	2309.5	2330.5
17.5°	2305.8	2299.6	2298.4	2292.2	2260.1	2260.1	2258.9	2267.5	2273.7	2284.8	2307.0
20°	2292.2	2289.7	2288.5	2284.8	2255.2	2250.2	2247.7	2247.7	2251.4	2255.2	2277.4
22.5°	2256.4	2258.9	2261.3	2263.8	2240.3	2231.7	2232.9	2230.5	2226.7	2226.7	2245.3
25°	2189.7	2202.0	2211.9	2223.0	2209.5	2203.3	2210.7	2207.0	2200.8	2195.9	2211.9
27.5°	2083.5	2109.4	2130.4	2157.6	2158.8	2153.9	2173.6	2171.2	2169.9	2162.5	2174.9
30°	1936.5	1977.3	2005.7	2045.2	2078.5	2083.5	2116.8	2121.8	2126.7	2123.0	2135.4
32.5°	1758.7	1814.2	1862.4	1924.2	1956.3	1984.7	2031.6	2051.4	2071.1	2077.3	2090.9
35°	1564.8	1627.8	1684.6	1752.5	1803.1	1864.9	1921.7	1951.3	1995.8	2013.1	2032.8
37.5°	1380.8	1440.0	1495.6	1563.5	1645.1	1709.3	1779.7	1846.4	1906.9	1931.6	1961.2
40°	1217.7	1265.9	1319.0	1378.3	1452.4	1536.4	1612.9	1705.6	1777.2	1826.6	1869.8
42.5°	1094.2	1117.7	1163.4	1216.5	1275.8	1361.0	1438.8	1542.5	1629.0	1699.4	1771.0
45°	984.3	995.4	1028.8	1057.2	1117.7	1193.0	1275.8	1377.1	1467.2	1557.4	1643.8
47.5°	890.5	904.0	920.1	937.4	980.6	1043.6	1115.2	1206.6	1296.8	1401.8	1500.6
50°	827.5	831.2	833.6	841.1	867.0	910.2	968.3	1046.1	1132.5	1244.9	1349.9
52.5°	771.9	771.9	764.5	760.8	770.7	797.8	831.2	886.7	975.7	1079.4	1190.6
55°	712.6	701.5	699.0	686.7	689.1	701.5	717.5	760.8	833.6	922.6	1030.0
57.5°	629.9	624.9	624.9	620.0	610.1	616.3	620.0	650.9	702.7	779.3	873.2
60°	534.8	532.3	538.5	539.7	531.1	534.8	533.5	552.1	589.1	650.9	728.7
62.5°	439.7	450.8	452.0	457.0	452.0	450.8	457.0	473.0	491.5	538.5	599.0
65°	369.3	375.4	376.7	382.9	380.4	380.4	385.3	397.7	408.8	440.9	487.8
67.5°	323.6	321.1	322.3	326.0	322.3	321.1	324.8	332.2	340.9	360.6	394.0
70°	287.8	285.3	285.3	285.3	280.4	276.6	277.9	280.4	284.1	295.2	316.2
72.5°	260.6	260.6	256.9	253.2	249.5	247.0	244.5	242.1	240.8	244.5	255.6
75°	235.9	237.1	235.9	232.2	227.2	222.3	217.4	212.4	206.2	203.8	205.0
77.5°	213.7	214.9	216.1	214.9	210.0	203.8	196.4	189.0	180.3	171.7	166.7
80°	193.9	196.4	197.6	196.4	192.7	187.7	179.1	170.4	158.1	147.0	134.6
82.5°	176.6	180.3	181.5	181.5	179.1	174.1	164.3	154.4	140.8	126.0	109.9
85°	163.0	165.5	168.0	168.0	166.7	161.8	151.9	140.8	127.2	109.9	92.6
87.5°	149.4	150.7	153.1	155.6	153.1	148.2	139.6	127.2	113.6	96.3	76.6
90°	135.9	137.1	139.6	142.0	140.8	135.9	128.4	117.3	102.5	84.0	64.2
92.5°	122.3	124.7	126.0	127.2	128.4	124.7	118.6	107.4	92.6	74.1	55.6
95°	112.4	112.4	114.9	116.1	117.3	113.6	108.7	97.6	84.0	66.7	48.2
97.5°	102.5	102.5	105.0	105.0	106.2	103.7	98.8	88.9	75.3	59.3	40.8
100°	92.6	93.9	95.1	96.3	96.3	95.1	90.2	80.3	67.9	53.1	35.8
102.5°	86.5	86.5	87.7	87.7	88.9	86.5	81.5	72.9	60.5	46.9	30.9
105°	80.3	80.3	81.5	81.5	80.3	77.8	72.9	65.5	54.3	40.8	27.2
107.5°	75.3	75.3	75.3	75.3	74.1	71.6	66.7	58.0	48.2	37.1	24.7
110°	71.6	70.4	70.4	69.2	67.9	64.2	59.3	51.9	43.2	32.1	21.0

TEST NUMBER: P1213862

CATALOG NUMBER: 4SNLED-LD5-66SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	67.9	66.7	65.5	64.2	61.8	58.0	53.1	46.9	38.3	28.4	18.5
115°	64.2	63.0	61.8	59.3	56.8	53.1	48.2	42.0	33.3	24.7	16.1
117.5°	60.5	59.3	56.8	54.3	51.9	48.2	43.2	37.1	29.6	22.2	14.8
120°	55.6	54.3	53.1	50.6	48.2	43.2	38.3	33.3	25.9	19.8	12.4
122.5°	51.9	50.6	48.2	46.9	43.2	39.5	34.6	29.6	23.5	17.3	11.1
125°	46.9	45.7	44.5	42.0	39.5	34.6	30.9	25.9	21.0	14.8	8.6
127.5°	43.2	42.0	39.5	37.1	34.6	30.9	27.2	23.5	18.5	12.4	8.6
130°	38.3	37.1	35.8	33.3	30.9	27.2	24.7	19.8	16.1	11.1	7.4
132.5°	33.3	33.3	32.1	29.6	27.2	24.7	21.0	17.3	13.6	9.9	6.2
135°	30.9	29.6	28.4	25.9	24.7	21.0	18.5	14.8	11.1	8.6	4.9
137.5°	27.2	25.9	24.7	23.5	21.0	18.5	16.1	12.4	9.9	7.4	4.9
140°	23.5	22.2	22.2	19.8	18.5	16.1	13.6	11.1	8.6	6.2	3.7
142.5°	21.0	19.8	18.5	17.3	16.1	13.6	11.1	8.6	7.4	4.9	3.7
145°	18.5	17.3	16.1	14.8	13.6	11.1	9.9	7.4	6.2	4.9	3.7
147.5°	14.8	14.8	13.6	12.4	11.1	9.9	8.6	7.4	4.9	3.7	2.5
150°	12.4	12.4	11.1	9.9	9.9	8.6	7.4	6.2	4.9	3.7	2.5
152.5°	11.1	9.9	9.9	8.6	8.6	7.4	6.2	4.9	3.7	3.7	2.5
155°	8.6	8.6	8.6	7.4	7.4	6.2	4.9	4.9	3.7	2.5	2.5
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: P1213862

CATALOG NUMBER: 4SNLED-LD5-66SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2391.0	2391.0	2391.0	2391.0	2391.0	2391.0	2391.0	2391.0	2391.0	2391.0	2391.0
2.5°	2394.7	2379.9	2392.2	2414.5	2412.0	2409.5	2407.1	2412.0	2428.1	2419.4	2405.8
5°	2391.0	2376.2	2389.8	2410.8	2409.5	2405.8	2403.4	2408.3	2424.4	2415.7	2400.9
7.5°	2383.6	2370.0	2379.9	2400.9	2400.9	2398.4	2395.9	2400.9	2415.7	2408.3	2393.5
10°	2371.2	2361.4	2371.2	2391.0	2392.2	2387.3	2384.8	2391.0	2405.8	2402.1	2389.8
12.5°	2361.4	2351.5	2362.6	2382.4	2383.6	2378.7	2375.0	2382.4	2402.1	2404.6	2400.9
15°	2347.8	2339.1	2352.7	2373.7	2373.7	2370.0	2370.0	2379.9	2407.1	2418.2	2424.4
17.5°	2328.0	2321.8	2337.9	2358.9	2360.1	2357.7	2358.9	2378.7	2414.5	2441.6	2458.9
20°	2303.3	2300.8	2318.1	2340.4	2344.1	2345.3	2351.5	2381.1	2430.5	2467.6	2484.9
22.5°	2273.7	2274.9	2294.7	2318.1	2323.1	2326.8	2339.1	2381.1	2442.9	2482.4	2489.8
25°	2240.3	2244.0	2265.0	2293.4	2299.6	2307.0	2328.0	2382.4	2446.6	2472.5	2460.2
27.5°	2204.5	2211.9	2239.1	2268.7	2276.1	2288.5	2315.7	2375.0	2429.3	2430.5	2384.8
30°	2167.5	2176.1	2208.2	2242.8	2255.2	2267.5	2300.8	2357.7	2387.3	2347.8	2267.5
32.5°	2125.5	2137.8	2169.9	2211.9	2226.7	2242.8	2276.1	2324.3	2313.2	2228.0	2113.1
35°	2072.4	2089.7	2126.7	2176.1	2189.7	2210.7	2234.2	2245.3	2195.9	2074.8	1945.2
37.5°	2006.9	2032.8	2076.1	2132.9	2147.7	2161.3	2167.5	2136.6	2037.8	1906.9	1772.3
40°	1931.6	1971.1	2018.0	2081.0	2095.8	2095.8	2073.6	2008.1	1883.4	1711.7	1562.3
42.5°	1840.2	1888.4	1947.6	2010.6	2025.4	2008.1	1955.0	1840.2	1698.2	1506.7	1348.6
45°	1729.0	1793.3	1859.9	1925.4	1932.8	1894.5	1799.4	1653.7	1478.3	1300.5	1149.8
47.5°	1596.9	1680.9	1753.7	1827.8	1818.0	1753.7	1626.5	1461.0	1275.8	1107.8	986.8
50°	1448.7	1547.5	1629.0	1699.4	1678.4	1589.5	1440.0	1267.1	1083.1	939.9	839.8
52.5°	1290.6	1404.2	1485.7	1542.5	1514.1	1407.9	1243.7	1078.2	927.5	796.6	729.9
55°	1126.3	1241.2	1325.2	1369.6	1332.6	1217.7	1055.9	905.3	763.2	678.0	638.5
57.5°	967.0	1074.5	1153.5	1189.3	1142.4	1027.5	878.1	750.9	648.4	576.8	557.0
60°	813.9	901.6	976.9	1004.1	953.4	847.2	718.8	617.5	542.2	492.8	482.9
62.5°	671.9	743.5	802.8	823.8	774.4	691.6	580.5	505.1	452.0	427.3	415.0
65°	554.5	596.5	657.0	653.3	623.7	547.1	465.6	412.5	377.9	361.9	354.5
67.5°	436.0	474.2	512.5	517.5	480.4	427.3	374.2	335.9	317.4	308.8	305.1
70°	337.2	365.6	389.0	382.9	363.1	329.8	296.4	275.4	268.0	264.3	264.3
72.5°	261.8	276.6	287.8	280.4	268.0	250.7	234.7	226.0	227.2	229.7	232.2
75°	202.5	206.2	208.7	201.3	198.8	187.7	186.5	187.7	195.1	202.5	206.2
77.5°	155.6	150.7	147.0	139.6	140.8	139.6	145.7	155.6	166.7	177.8	187.7
80°	119.8	108.7	100.0	92.6	96.3	102.5	114.9	129.7	144.5	156.8	169.2
82.5°	92.6	76.6	64.2	56.8	64.2	74.1	90.2	108.7	126.0	139.6	153.1
85°	71.6	53.1	38.3	30.9	38.3	53.1	70.4	91.4	109.9	124.7	138.3
87.5°	55.6	38.3	21.0	12.4	21.0	37.1	56.8	76.6	95.1	112.4	126.0
90°	44.5	25.9	9.9	2.5	11.1	25.9	44.5	64.2	82.7	101.3	114.9
92.5°	35.8	18.5	4.9	0.0	6.2	19.8	37.1	55.6	74.1	91.4	105.0
95°	29.6	14.8	3.7	0.0	4.9	14.8	29.6	48.2	65.5	82.7	93.9
97.5°	24.7	11.1	2.5	0.0	2.5	12.4	24.7	40.8	58.0	74.1	85.2
100°	21.0	9.9	2.5	0.0	2.5	9.9	21.0	35.8	50.6	65.5	76.6
102.5°	17.3	7.4	1.2	1.2	1.2	7.4	18.5	30.9	44.5	58.0	69.2
105°	16.1	6.2	1.2	1.2	1.2	6.2	16.1	27.2	39.5	51.9	61.8
107.5°	13.6	4.9	1.2	1.2	1.2	4.9	13.6	23.5	35.8	46.9	55.6
110°	11.1	4.9	1.2	1.2	1.2	4.9	11.1	21.0	30.9	40.8	49.4



TEST NUMBER: P1213862

CATALOG NUMBER: 4SNLED-LD5-66SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	9.9	3.7	1.2	1.2	1.2	3.7	9.9	18.5	27.2	37.1	44.5
115°	8.6	3.7	1.2	1.2	1.2	3.7	8.6	16.1	23.5	32.1	39.5
117.5°	7.4	3.7	1.2	1.2	1.2	2.5	7.4	13.6	21.0	28.4	35.8
120°	6.2	2.5	1.2	1.2	1.2	2.5	6.2	12.4	18.5	24.7	30.9
122.5°	6.2	2.5	1.2	1.2	1.2	2.5	4.9	9.9	16.1	21.0	27.2
125°	4.9	2.5	1.2	1.2	1.2	1.2	4.9	8.6	13.6	18.5	23.5
127.5°	4.9	2.5	1.2	1.2	1.2	1.2	3.7	7.4	11.1	16.1	21.0
130°	3.7	2.5	1.2	1.2	1.2	1.2	2.5	6.2	9.9	13.6	17.3
132.5°	3.7	2.5	1.2	1.2	1.2	1.2	2.5	4.9	7.4	11.1	14.8
135°	3.7	1.2	1.2	1.2	1.2	1.2	1.2	3.7	6.2	8.6	11.1
137.5°	2.5	1.2	1.2	1.2	1.2	1.2	1.2	2.5	4.9	6.2	9.9
140°	2.5	1.2	1.2	1.2	1.2	1.2	1.2	2.5	3.7	4.9	7.4
142.5°	2.5	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.5	3.7	6.2
145°	2.5	1.2	1.2	2.5	2.5	1.2	1.2	2.5	2.5	3.7	4.9
147.5°	2.5	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.5	2.5	3.7
150°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.7
152.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
155°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
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: P1213862

CATALOG NUMBER: 4SNLED-LD5-66SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2391.0	2391.0	2391.0	2391.0	2391.0	2391.0	2391.0	2391.0	2391.0	2391.0	2391.0
2.5°	2403.4	2375.0	2389.8	2384.8	2389.8	2402.1	2400.9	2397.2	2399.7	2393.5	2387.3
5°	2398.4	2370.0	2384.8	2378.7	2384.8	2397.2	2394.7	2391.0	2394.7	2387.3	2381.1
7.5°	2392.2	2366.3	2383.6	2382.4	2393.5	2409.5	2410.8	2410.8	2419.4	2408.3	2403.4
10°	2392.2	2378.7	2402.1	2410.8	2439.2	2460.2	2462.6	2467.6	2482.4	2479.9	2467.6
12.5°	2418.2	2415.7	2450.3	2471.3	2497.2	2526.9	2542.9	2547.9	2557.7	2550.3	2545.4
15°	2451.5	2463.9	2502.2	2525.6	2554.0	2576.3	2580.0	2582.4	2589.8	2578.7	2570.1
17.5°	2496.0	2503.4	2534.3	2544.1	2562.7	2566.4	2561.4	2549.1	2549.1	2524.4	2517.0
20°	2517.0	2513.3	2525.6	2509.6	2502.2	2479.9	2458.9	2435.5	2434.2	2408.3	2405.8
22.5°	2498.5	2473.8	2447.8	2408.3	2391.0	2358.9	2330.5	2316.9	2308.3	2274.9	2266.3
25°	2433.0	2372.5	2334.2	2287.3	2245.3	2208.2	2181.1	2152.6	2125.5	2098.3	2086.0
27.5°	2319.4	2262.6	2200.8	2135.4	2077.3	2020.5	1974.8	1946.4	1920.5	1884.6	1866.1
30°	2179.8	2100.8	2032.8	1969.9	1874.8	1805.6	1767.3	1710.5	1690.7	1674.7	1640.1
32.5°	2015.6	1920.5	1827.8	1742.6	1645.1	1580.8	1530.2	1488.2	1475.9	1433.9	1424.0
35°	1834.0	1709.3	1604.3	1520.3	1449.9	1372.1	1330.1	1301.7	1277.0	1248.6	1243.7
37.5°	1620.4	1508.0	1389.4	1315.3	1259.7	1193.0	1160.9	1141.2	1130.0	1109.1	1105.3
40°	1405.5	1293.1	1211.6	1137.5	1102.9	1067.1	1043.6	1034.9	1030.0	1022.6	1015.2
42.5°	1210.3	1111.5	1053.5	1004.1	989.3	972.0	965.8	970.7	965.8	963.3	962.1
45°	1044.8	969.5	928.7	913.9	910.2	905.3	910.2	918.9	920.1	917.6	917.6
47.5°	894.2	858.3	841.1	843.5	849.7	853.4	862.0	873.2	875.6	869.5	871.9
50°	795.4	774.4	770.7	780.5	794.1	799.1	808.9	817.6	816.4	813.9	811.4
52.5°	702.7	696.6	706.4	716.3	731.1	733.6	737.3	741.0	739.8	734.8	732.4
55°	624.9	629.9	638.5	642.2	653.3	652.1	653.3	653.3	648.4	645.9	642.2
57.5°	554.5	555.8	560.7	561.9	568.1	565.6	564.4	561.9	554.5	553.3	549.6
60°	482.9	480.4	491.5	482.9	487.8	482.9	481.7	475.5	468.1	466.8	464.4
62.5°	415.0	410.0	417.4	413.7	416.2	411.3	408.8	401.4	395.2	394.0	392.7
65°	354.5	352.0	359.4	358.2	360.6	354.5	352.0	347.0	342.1	340.9	339.6
67.5°	303.8	310.0	313.7	313.7	316.2	314.9	308.8	307.5	306.3	301.3	301.3
70°	266.8	270.5	277.9	279.1	277.9	280.4	275.4	274.2	272.9	270.5	269.2
72.5°	237.1	242.1	249.5	250.7	249.5	249.5	247.0	245.8	245.8	242.1	242.1
75°	213.7	219.8	226.0	226.0	226.0	223.5	221.1	221.1	218.6	217.4	214.9
77.5°	193.9	201.3	206.2	205.0	203.8	201.3	201.3	197.6	193.9	193.9	191.4
80°	179.1	184.0	187.7	186.5	185.3	181.5	180.3	176.6	174.1	170.4	170.4
82.5°	163.0	169.2	171.7	170.4	168.0	164.3	163.0	160.6	158.1	156.8	154.4
85°	149.4	155.6	156.8	154.4	151.9	149.4	148.2	147.0	145.7	143.3	143.3
87.5°	135.9	142.0	142.0	140.8	138.3	137.1	135.9	134.6	133.4	132.1	130.9
90°	124.7	129.7	129.7	128.4	127.2	126.0	124.7	123.5	122.3	121.0	121.0
92.5°	113.6	118.6	118.6	117.3	116.1	114.9	114.9	113.6	112.4	111.2	109.9
95°	103.7	108.7	108.7	108.7	107.4	106.2	106.2	105.0	103.7	103.7	102.5
97.5°	93.9	98.8	98.8	98.8	97.6	96.3	96.3	95.1	95.1	95.1	93.9
100°	85.2	88.9	90.2	90.2	88.9	88.9	88.9	87.7	87.7	87.7	86.5
102.5°	76.6	80.3	82.7	82.7	82.7	81.5	81.5	81.5	81.5	81.5	80.3
105°	69.2	72.9	75.3	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
107.5°	63.0	66.7	69.2	70.4	71.6	71.6	72.9	72.9	72.9	72.9	72.9
110°	56.8	60.5	64.2	65.5	66.7	67.9	67.9	69.2	67.9	67.9	67.9

TEST NUMBER: P1213862

CATALOG NUMBER: 4SNLED-LD5-66SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	50.6	55.6	58.0	60.5	61.8	63.0	64.2	64.2	64.2	64.2	64.2
115°	45.7	50.6	53.1	55.6	58.0	59.3	59.3	60.5	60.5	60.5	59.3
117.5°	40.8	45.7	48.2	50.6	51.9	54.3	55.6	55.6	55.6	55.6	54.3
120°	37.1	40.8	43.2	45.7	48.2	49.4	50.6	50.6	50.6	50.6	50.6
122.5°	32.1	35.8	39.5	42.0	43.2	44.5	45.7	45.7	45.7	45.7	45.7
125°	28.4	32.1	34.6	37.1	38.3	40.8	40.8	40.8	40.8	40.8	40.8
127.5°	24.7	28.4	30.9	33.3	34.6	35.8	37.1	37.1	37.1	37.1	37.1
130°	21.0	24.7	27.2	29.6	30.9	32.1	32.1	33.3	33.3	33.3	33.3
132.5°	18.5	21.0	23.5	25.9	27.2	28.4	28.4	29.6	29.6	29.6	29.6
135°	14.8	18.5	19.8	22.2	23.5	24.7	24.7	25.9	25.9	25.9	25.9
137.5°	12.4	14.8	17.3	19.8	21.0	21.0	22.2	22.2	23.5	23.5	23.5
140°	9.9	11.1	14.8	16.1	17.3	18.5	19.8	19.8	19.8	19.8	19.8
142.5°	7.4	9.9	11.1	13.6	14.8	16.1	17.3	17.3	17.3	17.3	17.3
145°	6.2	7.4	8.6	11.1	12.4	13.6	14.8	14.8	14.8	14.8	14.8
147.5°	4.9	6.2	7.4	8.6	9.9	11.1	12.4	12.4	12.4	12.4	12.4
150°	3.7	4.9	6.2	6.2	7.4	8.6	9.9	11.1	11.1	11.1	11.1
152.5°	3.7	3.7	4.9	4.9	6.2	7.4	8.6	8.6	8.6	8.6	8.6
155°	2.5	3.7	3.7	3.7	4.9	4.9	6.2	7.4	7.4	7.4	7.4
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: P1213862

CATALOG NUMBER: 4SNLED-LD5-66SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2391.0	2391.0	2391.0	2391.0	2391.0	2391.0	2391.0	2391.0	2391.0	2391.0	2391.0
2.5°	2391.0	2395.9	2393.5	2389.8	2388.5	2394.7	2388.5	2360.1	2371.2	2372.5	2381.1
5°	2387.3	2391.0	2388.5	2386.1	2382.4	2389.8	2382.4	2352.7	2363.8	2365.1	2373.7
7.5°	2412.0	2413.2	2413.2	2407.1	2397.2	2400.9	2391.0	2357.7	2363.8	2363.8	2370.0
10°	2473.8	2476.2	2479.9	2463.9	2451.5	2441.6	2428.1	2387.3	2386.1	2376.2	2376.2
12.5°	2554.0	2547.9	2541.7	2534.3	2524.4	2512.0	2492.3	2444.1	2428.1	2412.0	2395.9
15°	2577.5	2575.0	2573.8	2570.1	2563.9	2560.2	2545.4	2497.2	2473.8	2454.0	2425.6
17.5°	2515.7	2520.7	2536.7	2538.0	2545.4	2560.2	2557.7	2524.4	2503.4	2494.7	2460.2
20°	2404.6	2405.8	2425.6	2434.2	2466.3	2491.0	2509.6	2505.9	2500.9	2510.8	2484.9
22.5°	2271.2	2279.9	2300.8	2314.4	2345.3	2373.7	2403.4	2419.4	2445.3	2486.1	2481.2
25°	2089.7	2100.8	2130.4	2152.6	2195.9	2239.1	2278.6	2307.0	2337.9	2415.7	2441.6
27.5°	1872.3	1889.6	1927.9	1950.1	2010.6	2055.1	2111.9	2167.5	2210.7	2299.6	2352.7
30°	1643.8	1658.6	1699.4	1730.3	1782.1	1842.7	1914.3	1993.3	2065.0	2155.1	2221.8
32.5°	1430.2	1446.2	1479.6	1506.7	1564.8	1615.4	1694.5	1792.0	1858.7	1983.4	2072.4
35°	1243.7	1258.5	1282.0	1305.4	1353.6	1405.5	1473.4	1568.5	1653.7	1783.4	1895.8
37.5°	1112.8	1115.2	1128.8	1142.4	1178.2	1217.7	1270.8	1354.8	1433.9	1573.4	1696.9
40°	1018.9	1018.9	1026.3	1030.0	1046.1	1069.5	1102.9	1168.3	1233.8	1340.0	1490.7
42.5°	960.8	958.4	958.4	959.6	958.4	969.5	989.3	1020.1	1078.2	1165.9	1283.2
45°	917.6	912.7	909.0	900.3	895.4	895.4	896.6	907.7	941.1	997.9	1093.0
47.5°	869.5	868.2	862.0	852.2	843.5	837.3	827.5	823.8	833.6	865.8	930.0
50°	813.9	807.7	801.5	794.1	784.2	778.1	759.5	760.8	752.1	766.9	800.3
52.5°	732.4	727.4	725.0	718.8	715.1	712.6	697.8	683.0	679.3	681.7	694.1
55°	642.2	644.7	634.8	639.7	638.5	627.4	621.2	610.1	606.4	605.2	611.3
57.5°	548.4	550.8	544.6	549.6	549.6	543.4	539.7	539.7	531.1	523.6	532.3
60°	463.1	458.2	461.9	468.1	468.1	464.4	461.9	461.9	455.7	453.3	459.4
62.5°	394.0	389.0	392.7	398.9	400.1	397.7	395.2	395.2	387.8	387.8	392.7
65°	340.9	342.1	340.9	345.8	345.8	347.0	344.6	342.1	333.5	337.2	335.9
67.5°	302.6	301.3	301.3	306.3	305.1	307.5	305.1	301.3	295.2	290.2	289.0
70°	270.5	269.2	269.2	271.7	272.9	272.9	271.7	269.2	260.6	255.6	251.9
72.5°	242.1	240.8	242.1	243.3	244.5	245.8	244.5	242.1	234.7	228.5	222.3
75°	216.1	214.9	218.6	218.6	219.8	219.8	221.1	219.8	213.7	206.2	198.8
77.5°	190.2	191.4	195.1	196.4	198.8	200.1	201.3	201.3	195.1	189.0	179.1
80°	169.2	171.7	174.1	175.4	177.8	181.5	182.8	184.0	179.1	172.9	161.8
82.5°	154.4	155.6	158.1	159.3	163.0	164.3	165.5	168.0	165.5	159.3	147.0
85°	142.0	143.3	145.7	145.7	148.2	150.7	151.9	153.1	151.9	145.7	133.4
87.5°	130.9	132.1	133.4	134.6	135.9	137.1	138.3	139.6	138.3	132.1	121.0
90°	121.0	121.0	122.3	122.3	123.5	124.7	127.2	127.2	126.0	121.0	109.9
92.5°	109.9	111.2	111.2	112.4	113.6	114.9	116.1	116.1	114.9	109.9	100.0
95°	102.5	102.5	103.7	103.7	105.0	105.0	106.2	106.2	105.0	100.0	90.2
97.5°	93.9	93.9	93.9	93.9	95.1	95.1	96.3	96.3	95.1	90.2	81.5
100°	86.5	86.5	86.5	86.5	86.5	87.7	87.7	87.7	86.5	81.5	72.9
102.5°	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	77.8	74.1	65.5
105°	76.6	76.6	76.6	75.3	75.3	75.3	74.1	74.1	70.4	66.7	59.3
107.5°	71.6	71.6	71.6	70.4	70.4	69.2	67.9	67.9	64.2	60.5	53.1
110°	67.9	67.9	67.9	66.7	65.5	64.2	63.0	61.8	58.0	53.1	46.9

TEST NUMBER: P1213862

CATALOG NUMBER: 4SNLED-LD5-66SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	64.2	64.2	63.0	63.0	61.8	60.5	58.0	56.8	53.1	48.2	42.0
115°	59.3	59.3	59.3	58.0	56.8	55.6	54.3	51.9	48.2	43.2	37.1
117.5°	54.3	54.3	54.3	53.1	51.9	50.6	49.4	46.9	43.2	38.3	33.3
120°	49.4	49.4	49.4	48.2	46.9	45.7	44.5	42.0	38.3	34.6	28.4
122.5°	45.7	45.7	44.5	43.2	42.0	40.8	39.5	37.1	34.6	29.6	24.7
125°	40.8	40.8	39.5	39.5	38.3	37.1	35.8	33.3	29.6	25.9	22.2
127.5°	37.1	35.8	35.8	35.8	34.6	33.3	30.9	29.6	25.9	22.2	18.5
130°	32.1	32.1	32.1	30.9	30.9	29.6	27.2	24.7	22.2	19.8	16.1
132.5°	28.4	28.4	28.4	28.4	27.2	25.9	23.5	22.2	19.8	16.1	13.6
135°	25.9	25.9	24.7	24.7	23.5	22.2	21.0	18.5	16.1	13.6	11.1
137.5°	22.2	22.2	22.2	21.0	21.0	19.8	17.3	16.1	14.8	12.4	9.9
140°	19.8	19.8	18.5	18.5	17.3	17.3	16.1	13.6	12.4	9.9	8.6
142.5°	17.3	17.3	16.1	16.1	14.8	14.8	13.6	12.4	9.9	8.6	6.2
145°	14.8	14.8	13.6	13.6	13.6	12.4	11.1	9.9	8.6	7.4	6.2
147.5°	12.4	12.4	12.4	11.1	11.1	9.9	9.9	8.6	7.4	6.2	4.9
150°	11.1	11.1	9.9	9.9	9.9	8.6	7.4	7.4	6.2	4.9	3.7
152.5°	8.6	8.6	8.6	8.6	7.4	7.4	6.2	6.2	4.9	3.7	3.7
155°	7.4	7.4	7.4	6.2	6.2	6.2	4.9	4.9	3.7	3.7	2.5
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-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2391.0	2391.0	2391.0	2391.0	2391.0	2391.0	2391.0
2.5°	2377.4	2376.2	2387.3	2386.1	2371.2	2393.5	2408.3
5°	2371.2	2370.0	2379.9	2382.4	2366.3	2389.8	2405.8
7.5°	2366.3	2365.1	2376.2	2379.9	2363.8	2384.8	2402.1
10°	2367.5	2361.4	2371.2	2373.7	2358.9	2381.1	2395.9
12.5°	2376.2	2361.4	2365.1	2365.1	2351.5	2371.2	2387.3
15°	2397.2	2366.3	2361.4	2357.7	2340.4	2358.9	2375.0
17.5°	2420.6	2378.7	2361.4	2349.0	2328.0	2344.1	2361.4
20°	2444.1	2392.2	2363.8	2344.1	2315.7	2330.5	2342.8
22.5°	2455.2	2404.6	2366.3	2336.7	2300.8	2308.3	2321.8
25°	2440.4	2399.7	2361.4	2325.5	2282.3	2283.6	2294.7
27.5°	2386.1	2375.0	2350.2	2314.4	2267.5	2261.3	2270.0
30°	2293.4	2324.3	2325.5	2299.6	2250.2	2237.9	2241.6
32.5°	2163.8	2232.9	2273.7	2268.7	2225.5	2208.2	2210.7
35°	2014.3	2100.8	2189.7	2219.3	2188.5	2174.9	2169.9
37.5°	1835.2	1951.3	2069.9	2142.8	2137.8	2129.2	2124.2
40°	1637.6	1777.2	1918.0	2034.1	2069.9	2069.9	2072.4
42.5°	1426.5	1589.5	1743.9	1890.8	1974.8	1993.3	2000.7
45°	1222.7	1386.9	1554.9	1724.1	1836.5	1894.5	1915.5
47.5°	1037.4	1202.9	1362.2	1547.5	1696.9	1772.3	1805.6
50°	879.3	1002.8	1170.8	1354.8	1517.8	1610.5	1675.9
52.5°	748.4	844.8	991.7	1163.4	1327.7	1454.9	1515.4
55°	638.5	704.0	828.7	976.9	1133.8	1265.9	1336.3
57.5°	545.9	597.8	683.0	806.5	938.6	1069.5	1144.9
60°	464.4	500.2	558.2	655.8	768.2	880.6	953.4
62.5°	394.0	417.4	455.7	527.4	615.0	702.7	770.7
65°	339.6	349.5	370.5	415.0	481.7	548.4	606.4
67.5°	286.5	292.7	308.8	335.9	369.3	417.4	455.7
70°	247.0	247.0	248.2	264.3	281.6	312.5	339.6
72.5°	214.9	211.2	203.8	207.5	211.2	228.5	245.8
75°	189.0	180.3	168.0	163.0	160.6	163.0	172.9
77.5°	166.7	154.4	139.6	127.2	117.3	113.6	122.3
80°	148.2	133.4	116.1	100.0	84.0	75.3	79.0
82.5°	133.4	114.9	96.3	77.8	59.3	46.9	46.9
85°	117.3	100.0	80.3	60.5	42.0	25.9	23.5
87.5°	106.2	87.7	66.7	48.2	29.6	13.6	7.4
90°	95.1	76.6	56.8	38.3	21.0	6.2	0.0
92.5°	85.2	67.9	49.4	30.9	14.8	3.7	0.0
95°	76.6	60.5	42.0	25.9	12.4	2.5	1.2
97.5°	67.9	53.1	37.1	21.0	8.6	2.5	1.2
100°	61.8	46.9	32.1	17.3	7.4	1.2	1.2
102.5°	54.3	42.0	27.2	14.8	6.2	1.2	1.2
105°	48.2	37.1	23.5	12.4	4.9	1.2	1.2
107.5°	43.2	32.1	21.0	11.1	4.9	1.2	1.2
110°	38.3	28.4	18.5	9.9	3.7	1.2	1.2

TEST NUMBER: P1213862

CATALOG NUMBER: 4SNLED-LD5-66SL-LC-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	34.6	24.7	16.1	8.6	2.5	1.2	1.2
115°	29.6	22.2	13.6	7.4	2.5	1.2	1.2
117.5°	25.9	18.5	12.4	6.2	2.5	1.2	1.2
120°	22.2	16.1	9.9	4.9	1.2	1.2	1.2
122.5°	19.8	13.6	8.6	4.9	1.2	1.2	1.2
125°	17.3	12.4	7.4	3.7	1.2	1.2	1.2
127.5°	14.8	9.9	6.2	2.5	1.2	1.2	1.2
130°	12.4	8.6	4.9	2.5	1.2	1.2	1.2
132.5°	9.9	7.4	4.9	2.5	1.2	1.2	1.2
135°	8.6	6.2	3.7	2.5	1.2	1.2	1.2
137.5°	7.4	4.9	2.5	2.5	2.5	1.2	1.2
140°	6.2	3.7	2.5	2.5	2.5	2.5	1.2
142.5°	4.9	3.7	2.5	2.5	2.5	2.5	1.2
145°	3.7	2.5	2.5	2.5	2.5	2.5	1.2
147.5°	3.7	2.5	2.5	2.5	2.5	2.5	1.2
150°	2.5	2.5	2.5	2.5	2.5	2.5	2.5
152.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5
155°	2.5	2.5	2.5	2.5	2.5	2.5	2.5
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)