

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: P1214213

Luminaire Tested: 4SNLED-LD5-66SL-LC-UNV-L950-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1214213
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-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR LENSED
Light Source: -
Ballast/Driver: -

Summary

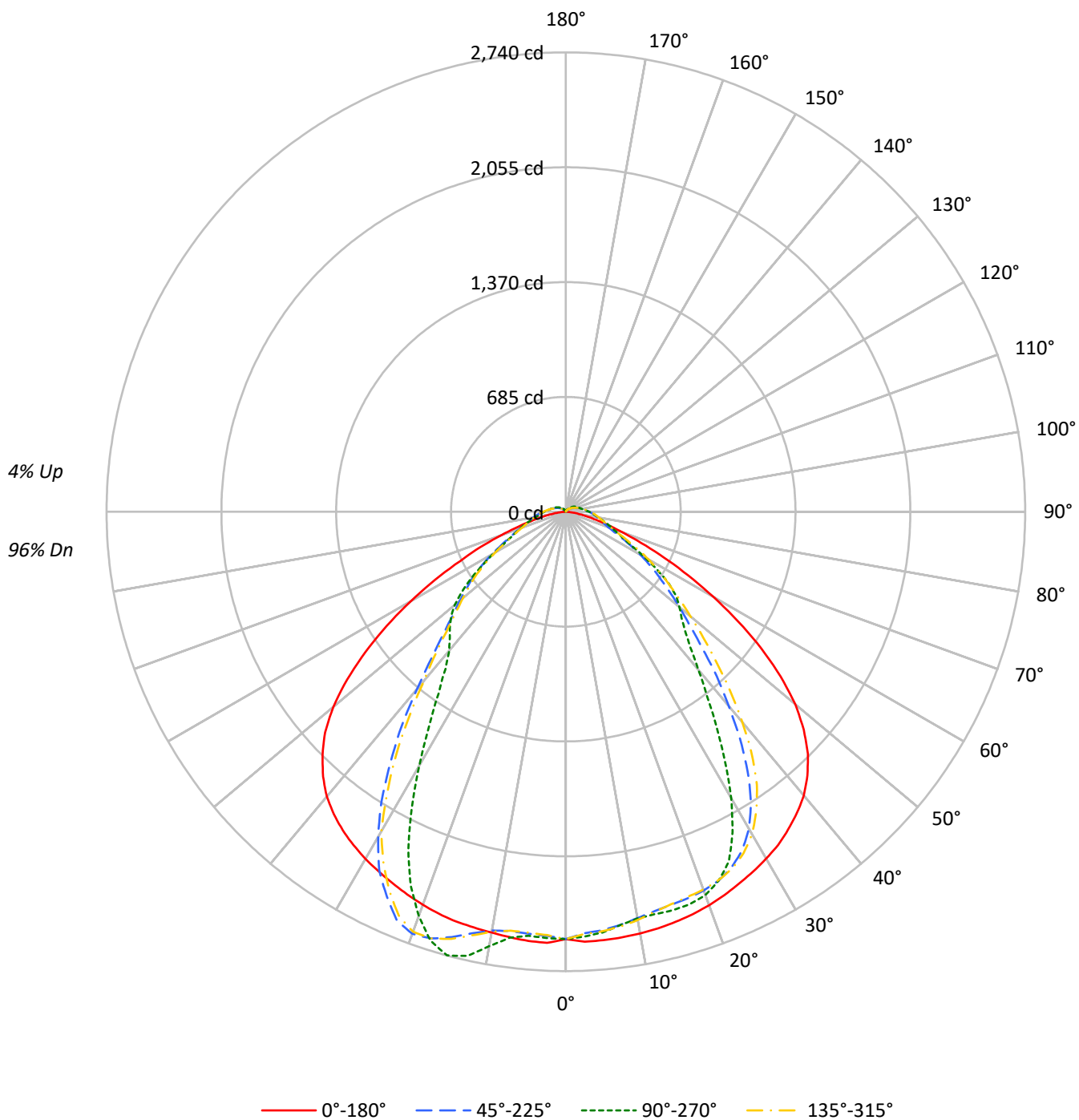
Lumens per Lamp: N/A
Luminaire Lumens: 6076.0 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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

TEST NUMBER: P1214213

CATALOG NUMBER: 4SNLED-LD5-66SL-LC-UNV-L950-CD1-U

Luminous Intensity Polar Plot



TEST NUMBER: P1214213

CATALOG NUMBER: 4SNLED-LD5-66SL-LC-UNV-L950-CD1-U

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°	20596	20596	20596	20596
5°	20746	19779	20789	19935
10°	20842	18957	20799	20244
15°	21004	18704	20993	20825
20°	21235	18407	21213	19403
25°	21496	17462	21485	16873
30°	21901	15134	21913	13408
35°	22330	12238	22394	10356
40°	22708	9854	22803	8682
45°	22628	8347	22745	8128
50°	21653	7685	21956	7513
55°	19211	6906	19691	6279
60°	15582	5287	16410	4848
65°	11584	4045	12480	3835
70°	7877	3492	8880	3338
75°	5153	3150	6001	2979
80°	3332	2937	3902	2702
85°	1708	2930	2248	2676

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 180°

Vertical Angle: 45°

Luminance: 22745 cd/sqm

TEST NUMBER: P1214213

CATALOG NUMBER: 4SNLED-LD5-66SL-LC-UNV-L950-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.1	4.0
10°-20°	720.3	11.9
20°-30°	1095.1	18.0
30°-40°	1174.8	19.3
40°-50°	1019.6	16.8
50°-60°	755.6	12.4
60°-70°	432.9	7.1
70°-80°	239.7	3.9
80°-90°	146.0	2.4
90°-100°	94.9	1.6
100°-110°	63.6	1.0
110°-120°	42.9	0.7
120°-130°	26.3	0.4
130°-140°	13.8	0.2
140°-150°	6.3	0.1
150°-160°	1.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2057.5	33.9
0°-40°	3232.3	53.2
0°-60°	5007.5	82.4
0°-90°	5826.2	95.9
90°-120°	201.4	3.3
90°-150°	247.9	4.1
90°-180°	250.0	4.1
0°-180°	6076.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2549	2549	2549	2549	2549	
5°	2564	2518	2570	2538	2564	244
15°	2532	2460	2530	2740	2532	716
25°	2446	2301	2445	2224	2446	1131
35°	2313	1567	2320	1326	2313	1448
45°	2042	1004	2052	978	2042	1563
55°	1424	753	1460	685	1424	1263
65°	646	382	696	362	646	652
75°	184	242	215	229	184	210
85°	25	167	33	153	25	33
90°	0	140	3	129	0	1
95°	1	114	0	109	1	1
105°	1	86	1	82	1	1
115°	1	70	1	63	1	1
125°	1	53	1	43	1	1
135°	1	33	1	28	1	1
145°	1	20	3	16	1	1
155°	3	9	3	8	3	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	

TEST NUMBER: P1214213

CATALOG NUMBER: 4SNLED-LD5-66SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2548.7	2548.7	2548.7	2548.7	2548.7	2548.7	2548.7	2548.7	2548.7	2548.7	2548.7
2.5°	2567.2	2560.6	2557.9	2552.7	2556.6	2572.4	2561.9	2544.8	2546.1	2515.8	2531.6
5°	2564.5	2556.6	2552.7	2547.4	2550.0	2564.5	2554.0	2536.9	2535.6	2505.3	2519.8
7.5°	2560.6	2552.7	2546.1	2542.1	2543.5	2555.3	2542.1	2522.4	2518.4	2485.5	2498.7
10°	2554.0	2548.7	2539.5	2532.9	2531.6	2544.8	2523.7	2504.0	2494.8	2460.5	2473.7
12.5°	2544.8	2536.9	2527.7	2515.8	2514.5	2522.4	2505.3	2477.6	2468.4	2440.8	2455.3
15°	2531.6	2522.4	2511.9	2498.7	2492.1	2497.4	2476.3	2451.3	2450.0	2426.3	2446.0
17.5°	2517.1	2504.0	2492.1	2473.7	2464.5	2468.4	2451.3	2428.9	2431.6	2417.1	2439.5
20°	2497.4	2482.9	2464.5	2446.0	2432.9	2439.5	2427.6	2410.5	2414.4	2403.9	2423.7
22.5°	2475.0	2455.3	2432.9	2411.8	2401.3	2410.5	2401.3	2386.8	2388.1	2381.5	2393.4
25°	2446.0	2423.7	2397.3	2371.0	2365.7	2372.3	2367.1	2355.2	2349.9	2339.4	2344.7
27.5°	2419.7	2394.7	2361.8	2334.1	2324.9	2338.1	2326.2	2306.5	2292.0	2277.5	2267.0
30°	2389.4	2359.2	2322.3	2290.7	2282.8	2288.1	2270.9	2240.7	2202.5	2184.1	2155.1
32.5°	2356.5	2317.0	2270.9	2235.4	2230.1	2226.2	2194.6	2151.1	2091.9	2055.0	2010.3
35°	2313.1	2269.6	2214.3	2170.9	2163.0	2140.6	2089.3	2031.3	1955.0	1891.8	1815.4
37.5°	2264.4	2213.0	2155.1	2097.2	2074.8	2030.0	1957.6	1897.1	1781.2	1704.9	1612.7
40°	2209.1	2147.2	2076.1	2006.3	1969.5	1897.1	1814.1	1724.6	1612.7	1510.0	1432.3
42.5°	2132.7	2066.9	1982.6	1905.0	1841.8	1745.7	1648.2	1521.9	1419.2	1332.3	1253.3
45°	2041.9	1962.9	1865.5	1772.0	1691.7	1577.2	1462.6	1336.2	1250.7	1149.3	1095.3
47.5°	1924.7	1839.1	1735.1	1631.1	1525.8	1399.4	1279.6	1158.5	1072.9	1000.5	961.0
50°	1786.5	1707.5	1593.0	1469.2	1353.4	1221.7	1101.9	1011.1	928.1	883.4	853.1
52.5°	1615.3	1541.6	1424.4	1290.2	1178.3	1049.2	940.0	866.3	807.0	774.1	763.6
55°	1424.4	1359.9	1244.1	1119.0	1004.5	886.0	803.1	738.6	700.4	680.6	681.9
57.5°	1220.4	1170.4	1061.1	949.2	841.2	751.7	676.7	625.3	596.4	595.1	599.0
60°	1016.3	979.5	884.7	788.6	693.8	621.4	566.1	530.5	512.1	513.4	512.1
62.5°	821.5	787.3	718.8	639.8	564.8	516.1	466.0	451.6	435.8	434.4	434.4
65°	646.4	620.1	564.8	508.2	451.6	420.0	394.9	377.8	366.0	363.4	364.7
67.5°	485.8	475.3	437.1	398.9	363.4	343.6	322.5	318.6	309.4	309.4	312.0
70°	362.0	354.1	333.1	310.7	296.2	283.0	272.5	272.5	271.2	269.9	276.5
72.5°	262.0	263.3	256.7	239.6	238.3	235.7	233.0	237.0	238.3	242.2	250.1
75°	184.3	188.3	188.3	185.6	190.9	197.5	201.4	208.0	215.9	221.2	230.4
77.5°	130.3	130.3	136.9	144.8	155.3	167.2	177.7	186.9	197.5	204.1	212.0
80°	84.3	88.2	98.7	113.2	127.7	143.5	158.0	169.8	180.4	190.9	196.2
82.5°	50.0	56.6	69.8	88.2	106.6	126.4	140.9	155.3	167.2	177.7	181.7
85°	25.0	34.2	50.0	69.8	89.5	110.6	129.0	142.2	155.3	164.6	169.8
87.5°	7.9	18.4	35.5	54.0	75.0	96.1	115.9	130.3	142.2	150.1	155.3
90°	0.0	9.2	25.0	44.8	64.5	85.6	104.0	119.8	131.6	138.2	142.2
92.5°	0.0	5.3	19.7	36.9	55.3	76.4	94.8	109.3	119.8	126.4	129.0
95°	1.3	3.9	14.5	30.3	48.7	68.5	85.6	98.7	109.3	115.9	117.2
97.5°	1.3	2.6	11.8	25.0	42.1	60.6	77.7	90.8	98.7	105.3	106.6
100°	1.3	2.6	9.2	22.4	36.9	54.0	69.8	81.6	90.8	96.1	97.4
102.5°	1.3	1.3	7.9	18.4	32.9	47.4	61.9	73.7	81.6	86.9	89.5
105°	1.3	1.3	6.6	15.8	29.0	42.1	55.3	67.1	73.7	79.0	81.6
107.5°	1.3	1.3	5.3	13.2	25.0	36.9	50.0	59.2	67.1	72.4	75.0
110°	1.3	1.3	3.9	11.8	21.1	32.9	43.4	52.7	60.6	65.8	68.5

TEST NUMBER: P1214213

CATALOG NUMBER: 4SNLED-LD5-66SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.3	1.3	3.9	10.5	18.4	29.0	38.2	47.4	54.0	59.2	63.2
115°	1.3	1.3	3.9	9.2	17.1	25.0	34.2	42.1	48.7	54.0	57.9
117.5°	1.3	1.3	3.9	7.9	14.5	22.4	30.3	38.2	43.4	48.7	52.7
120°	1.3	1.3	2.6	6.6	13.2	19.7	26.3	32.9	39.5	44.8	48.7
122.5°	1.3	1.3	2.6	6.6	10.5	17.1	23.7	29.0	35.5	39.5	43.4
125°	1.3	1.3	2.6	5.3	9.2	15.8	21.1	26.3	30.3	35.5	39.5
127.5°	1.3	1.3	2.6	5.3	7.9	13.2	18.4	23.7	27.6	31.6	34.2
130°	1.3	1.3	2.6	3.9	6.6	10.5	15.8	19.7	25.0	27.6	30.3
132.5°	1.3	1.3	1.3	3.9	5.3	7.9	11.8	17.1	21.1	25.0	26.3
135°	1.3	1.3	1.3	2.6	5.3	6.6	9.2	13.2	17.1	21.1	23.7
137.5°	1.3	1.3	1.3	2.6	3.9	6.6	7.9	10.5	14.5	17.1	21.1
140°	1.3	1.3	1.3	2.6	3.9	5.3	6.6	9.2	11.8	14.5	17.1
142.5°	1.3	1.3	1.3	2.6	2.6	3.9	5.3	7.9	9.2	11.8	14.5
145°	1.3	1.3	1.3	2.6	2.6	3.9	5.3	6.6	7.9	9.2	11.8
147.5°	1.3	1.3	1.3	2.6	2.6	2.6	3.9	5.3	6.6	7.9	9.2
150°	2.6	2.6	2.6	2.6	2.6	2.6	3.9	3.9	5.3	6.6	7.9
152.5°	2.6	2.6	2.6	2.6	2.6	2.6	3.9	3.9	3.9	5.3	6.6
155°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.9	3.9	5.3	5.3
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: P1214213

CATALOG NUMBER: 4SNLED-LD5-66SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2548.7	2548.7	2548.7	2548.7	2548.7	2548.7	2548.7	2548.7	2548.7	2548.7	2548.7
2.5°	2526.3	2529.0	2544.8	2543.5	2540.8	2538.2	2538.2	2535.6	2538.2	2544.8	2542.1
5°	2513.2	2517.1	2529.0	2527.7	2525.0	2523.7	2522.4	2518.4	2521.1	2530.3	2527.7
7.5°	2489.5	2493.4	2504.0	2498.7	2494.8	2497.4	2490.8	2486.9	2492.1	2501.3	2500.0
10°	2464.5	2467.1	2480.3	2477.6	2471.1	2472.4	2465.8	2463.2	2469.7	2475.0	2476.3
12.5°	2447.4	2456.6	2468.4	2467.1	2465.8	2467.1	2460.5	2457.9	2461.8	2467.1	2465.8
15°	2443.4	2455.3	2468.4	2468.4	2469.7	2471.1	2464.5	2460.5	2464.5	2468.4	2467.1
17.5°	2439.5	2453.9	2465.8	2464.5	2465.8	2468.4	2457.9	2455.3	2460.5	2465.8	2463.2
20°	2426.3	2439.5	2447.4	2444.7	2444.7	2446.0	2432.9	2432.9	2440.8	2444.7	2446.0
22.5°	2389.4	2405.2	2405.2	2398.6	2398.6	2393.4	2389.4	2381.5	2390.7	2397.3	2402.6
25°	2334.1	2340.7	2332.8	2318.3	2310.4	2303.9	2285.4	2301.2	2301.2	2321.0	2327.6
27.5°	2256.5	2242.0	2219.6	2189.3	2182.7	2161.7	2149.8	2153.8	2160.4	2188.0	2209.1
30°	2128.8	2085.3	2047.1	2034.0	2005.0	1984.0	1962.9	1973.4	1985.3	2001.1	2044.5
32.5°	1960.3	1918.1	1856.3	1833.9	1803.6	1777.3	1752.3	1768.0	1789.1	1799.6	1847.0
35°	1766.7	1716.7	1660.1	1621.9	1590.3	1575.8	1544.2	1566.6	1589.0	1596.9	1637.7
37.5°	1561.4	1510.0	1460.0	1427.1	1396.8	1387.6	1366.5	1382.3	1399.4	1411.3	1445.5
40°	1366.5	1319.1	1280.9	1258.6	1237.5	1229.6	1221.7	1228.3	1241.5	1250.7	1277.0
42.5°	1199.3	1161.1	1134.8	1121.7	1107.2	1096.6	1098.0	1100.6	1107.2	1126.9	1138.8
45°	1053.2	1030.8	1013.7	1011.1	1001.9	1000.5	999.2	1004.5	1008.4	1020.3	1029.5
47.5°	936.0	926.8	922.9	928.1	932.1	926.8	929.4	936.0	943.9	943.9	942.6
50°	843.9	846.5	851.8	863.6	871.5	874.2	876.8	884.7	886.0	888.6	884.7
52.5°	768.8	771.5	785.9	804.4	813.6	817.5	822.8	830.7	830.7	833.3	828.1
55°	692.5	696.4	710.9	729.3	737.2	742.5	747.8	753.0	757.0	762.2	758.3
57.5°	608.2	620.1	629.3	634.5	639.8	643.8	647.7	649.0	656.9	658.2	664.8
60°	518.7	521.3	530.5	529.2	525.3	535.8	530.5	539.8	549.0	560.8	562.1
62.5°	433.1	434.4	441.0	438.4	443.7	442.3	446.3	446.3	452.9	458.1	464.7
65°	366.0	367.3	372.6	372.6	371.3	375.2	379.1	381.8	381.8	385.7	391.0
67.5°	316.0	319.9	325.2	327.8	330.4	330.4	334.4	335.7	338.3	339.7	342.3
70°	281.7	287.0	292.3	294.9	296.2	298.8	300.2	300.2	302.8	304.1	306.7
72.5°	256.7	262.0	265.9	265.9	268.6	269.9	269.9	271.2	272.5	275.1	277.8
75°	235.7	239.6	242.2	240.9	240.9	240.9	242.2	242.2	244.9	247.5	250.1
77.5°	215.9	219.9	219.9	217.2	217.2	217.2	217.2	218.5	219.9	222.5	225.1
80°	201.4	201.4	200.1	200.1	197.5	196.2	196.2	197.5	197.5	200.1	204.1
82.5°	185.6	185.6	184.3	183.0	181.7	180.4	180.4	181.7	183.0	184.3	186.9
85°	171.1	171.1	168.5	168.5	167.2	167.2	167.2	167.2	168.5	169.8	172.5
87.5°	156.7	155.3	154.0	152.7	152.7	152.7	152.7	152.7	154.0	156.7	158.0
90°	142.2	140.9	139.5	139.5	138.2	138.2	139.5	139.5	140.9	142.2	143.5
92.5°	129.0	127.7	126.4	126.4	125.1	125.1	126.4	125.1	127.7	127.7	129.0
95°	117.2	115.9	114.5	114.5	114.5	114.5	114.5	114.5	115.9	115.9	117.2
97.5°	106.6	105.3	104.0	104.0	105.3	104.0	105.3	105.3	105.3	106.6	108.0
100°	97.4	96.1	96.1	97.4	96.1	96.1	97.4	97.4	97.4	97.4	98.7
102.5°	89.5	89.5	89.5	89.5	89.5	89.5	90.8	90.8	90.8	90.8	92.2
105°	81.6	82.9	82.9	82.9	84.3	84.3	84.3	85.6	85.6	85.6	85.6
107.5°	76.4	77.7	77.7	79.0	79.0	80.3	80.3	80.3	80.3	81.6	81.6
110°	71.1	72.4	73.7	75.0	75.0	76.4	76.4	76.4	76.4	76.4	76.4



TEST NUMBER: P1214213

CATALOG NUMBER: 4SNLED-LD5-66SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	65.8	67.1	68.5	71.1	72.4	72.4	72.4	72.4	73.7	73.7	72.4
115°	60.6	63.2	64.5	67.1	68.5	68.5	69.8	69.8	69.8	69.8	68.5
117.5°	55.3	59.2	60.6	63.2	64.5	64.5	65.8	65.8	65.8	65.8	64.5
120°	51.3	54.0	56.6	57.9	59.2	60.6	60.6	61.9	61.9	61.9	60.6
122.5°	47.4	50.0	52.7	54.0	55.3	56.6	56.6	56.6	56.6	56.6	56.6
125°	42.1	44.8	47.4	48.7	50.0	51.3	51.3	52.7	52.7	52.7	51.3
127.5°	38.2	40.8	42.1	44.8	46.1	46.1	47.4	47.4	47.4	47.4	46.1
130°	32.9	35.5	38.2	39.5	40.8	40.8	42.1	42.1	42.1	42.1	42.1
132.5°	29.0	31.6	32.9	35.5	35.5	36.9	36.9	38.2	38.2	38.2	36.9
135°	26.3	27.6	29.0	31.6	31.6	32.9	32.9	32.9	32.9	32.9	32.9
137.5°	23.7	25.0	26.3	27.6	27.6	29.0	29.0	29.0	29.0	30.3	29.0
140°	19.7	22.4	23.7	23.7	25.0	25.0	25.0	26.3	26.3	26.3	25.0
142.5°	17.1	18.4	19.7	21.1	22.4	22.4	22.4	22.4	23.7	22.4	22.4
145°	13.2	15.8	17.1	18.4	19.7	19.7	19.7	19.7	19.7	19.7	19.7
147.5°	10.5	11.8	14.5	15.8	15.8	17.1	17.1	17.1	17.1	17.1	17.1
150°	9.2	9.2	11.8	13.2	14.5	14.5	14.5	14.5	14.5	14.5	14.5
152.5°	6.6	7.9	9.2	10.5	11.8	11.8	11.8	11.8	11.8	11.8	11.8
155°	6.6	6.6	7.9	7.9	9.2	9.2	9.2	9.2	10.5	9.2	9.2
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: P1214213

CATALOG NUMBER: 4SNLED-LD5-66SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2548.7	2548.7	2548.7	2548.7	2548.7	2548.7	2548.7	2548.7	2548.7	2548.7	2548.7
2.5°	2538.2	2536.9	2542.1	2536.9	2510.5	2521.1	2517.1	2531.6	2532.9	2536.9	2550.0
5°	2525.0	2525.0	2531.6	2526.3	2501.3	2511.9	2510.5	2525.0	2527.7	2530.3	2544.8
7.5°	2498.7	2500.0	2509.2	2505.3	2479.0	2494.8	2493.4	2510.5	2515.8	2521.1	2534.2
10°	2473.7	2472.4	2482.9	2479.0	2453.9	2472.4	2471.1	2488.2	2496.1	2505.3	2521.1
12.5°	2460.5	2456.6	2460.5	2456.6	2428.9	2443.4	2444.7	2464.5	2473.7	2485.5	2504.0
15°	2460.5	2453.9	2453.9	2446.0	2414.4	2423.7	2425.0	2438.1	2450.0	2461.8	2484.2
17.5°	2457.9	2451.3	2450.0	2443.4	2409.2	2409.2	2407.9	2417.1	2423.7	2435.5	2459.2
20°	2443.4	2440.8	2439.5	2435.5	2403.9	2398.6	2396.0	2396.0	2400.0	2403.9	2427.6
22.5°	2405.2	2407.9	2410.5	2413.1	2388.1	2378.9	2380.2	2377.6	2373.6	2373.6	2393.4
25°	2334.1	2347.3	2357.8	2369.7	2355.2	2348.6	2356.5	2352.6	2346.0	2340.7	2357.8
27.5°	2220.9	2248.6	2270.9	2299.9	2301.2	2296.0	2317.0	2314.4	2313.1	2305.2	2318.3
30°	2064.3	2107.7	2138.0	2180.1	2215.7	2220.9	2256.5	2261.7	2267.0	2263.0	2276.2
32.5°	1874.7	1933.9	1985.3	2051.1	2085.3	2115.6	2165.6	2186.7	2207.8	2214.3	2228.8
35°	1668.0	1735.1	1795.7	1868.1	1922.1	1987.9	2048.5	2080.1	2127.5	2145.9	2166.9
37.5°	1471.8	1535.0	1594.3	1666.7	1753.6	1822.0	1897.1	1968.2	2032.7	2059.0	2090.6
40°	1298.1	1349.4	1406.0	1469.2	1548.2	1637.7	1719.3	1818.1	1894.4	1947.1	1993.2
42.5°	1166.4	1191.4	1240.1	1296.7	1359.9	1450.8	1533.7	1644.3	1736.5	1811.5	1887.8
45°	1049.2	1061.1	1096.6	1126.9	1191.4	1271.7	1359.9	1467.9	1564.0	1660.1	1752.3
47.5°	949.2	963.7	980.8	999.2	1045.3	1112.4	1188.8	1286.2	1382.3	1494.2	1599.5
50°	882.0	886.0	888.6	896.5	924.2	970.3	1032.1	1115.1	1207.2	1327.0	1438.9
52.5°	822.8	822.8	814.9	811.0	821.5	850.5	886.0	945.2	1040.0	1150.6	1269.1
55°	759.6	747.8	745.1	732.0	734.6	747.8	764.9	811.0	888.6	983.4	1098.0
57.5°	671.4	666.1	666.1	660.9	650.3	656.9	660.9	693.8	749.1	830.7	930.8
60°	570.0	567.4	574.0	575.3	566.1	570.0	568.7	588.5	628.0	693.8	776.7
62.5°	468.7	480.5	481.8	487.1	481.8	480.5	487.1	504.2	524.0	574.0	638.5
65°	393.6	400.2	401.5	408.1	405.5	405.5	410.7	423.9	435.8	470.0	520.0
67.5°	344.9	342.3	343.6	347.6	343.6	342.3	346.2	354.1	363.4	384.4	420.0
70°	306.7	304.1	304.1	304.1	298.8	294.9	296.2	298.8	302.8	314.6	337.0
72.5°	277.8	277.8	273.8	269.9	265.9	263.3	260.7	258.0	256.7	260.7	272.5
75°	251.4	252.8	251.4	247.5	242.2	237.0	231.7	226.4	219.9	217.2	218.5
77.5°	227.8	229.1	230.4	229.1	223.8	217.2	209.3	201.4	192.2	183.0	177.7
80°	206.7	209.3	210.6	209.3	205.4	200.1	190.9	181.7	168.5	156.7	143.5
82.5°	188.3	192.2	193.5	193.5	190.9	185.6	175.1	164.6	150.1	134.3	117.2
85°	173.8	176.4	179.0	179.0	177.7	172.5	161.9	150.1	135.6	117.2	98.7
87.5°	159.3	160.6	163.2	165.9	163.2	158.0	148.8	135.6	121.1	102.7	81.6
90°	144.8	146.1	148.8	151.4	150.1	144.8	136.9	125.1	109.3	89.5	68.5
92.5°	130.3	133.0	134.3	135.6	136.9	133.0	126.4	114.5	98.7	79.0	59.2
95°	119.8	119.8	122.4	123.8	125.1	121.1	115.9	104.0	89.5	71.1	51.3
97.5°	109.3	109.3	111.9	111.9	113.2	110.6	105.3	94.8	80.3	63.2	43.4
100°	98.7	100.1	101.4	102.7	102.7	101.4	96.1	85.6	72.4	56.6	38.2
102.5°	92.2	92.2	93.5	93.5	94.8	92.2	86.9	77.7	64.5	50.0	32.9
105°	85.6	85.6	86.9	86.9	85.6	82.9	77.7	69.8	57.9	43.4	29.0
107.5°	80.3	80.3	80.3	80.3	79.0	76.4	71.1	61.9	51.3	39.5	26.3
110°	76.4	75.0	75.0	73.7	72.4	68.5	63.2	55.3	46.1	34.2	22.4

TEST NUMBER: P1214213

CATALOG NUMBER: 4SNLED-LD5-66SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	72.4	71.1	69.8	68.5	65.8	61.9	56.6	50.0	40.8	30.3	19.7
115°	68.5	67.1	65.8	63.2	60.6	56.6	51.3	44.8	35.5	26.3	17.1
117.5°	64.5	63.2	60.6	57.9	55.3	51.3	46.1	39.5	31.6	23.7	15.8
120°	59.2	57.9	56.6	54.0	51.3	46.1	40.8	35.5	27.6	21.1	13.2
122.5°	55.3	54.0	51.3	50.0	46.1	42.1	36.9	31.6	25.0	18.4	11.8
125°	50.0	48.7	47.4	44.8	42.1	36.9	32.9	27.6	22.4	15.8	9.2
127.5°	46.1	44.8	42.1	39.5	36.9	32.9	29.0	25.0	19.7	13.2	9.2
130°	40.8	39.5	38.2	35.5	32.9	29.0	26.3	21.1	17.1	11.8	7.9
132.5°	35.5	35.5	34.2	31.6	29.0	26.3	22.4	18.4	14.5	10.5	6.6
135°	32.9	31.6	30.3	27.6	26.3	22.4	19.7	15.8	11.8	9.2	5.3
137.5°	29.0	27.6	26.3	25.0	22.4	19.7	17.1	13.2	10.5	7.9	5.3
140°	25.0	23.7	23.7	21.1	19.7	17.1	14.5	11.8	9.2	6.6	3.9
142.5°	22.4	21.1	19.7	18.4	17.1	14.5	11.8	9.2	7.9	5.3	3.9
145°	19.7	18.4	17.1	15.8	14.5	11.8	10.5	7.9	6.6	5.3	3.9
147.5°	15.8	15.8	14.5	13.2	11.8	10.5	9.2	7.9	5.3	3.9	2.6
150°	13.2	13.2	11.8	10.5	10.5	9.2	7.9	6.6	5.3	3.9	2.6
152.5°	11.8	10.5	10.5	9.2	9.2	7.9	6.6	5.3	3.9	3.9	2.6
155°	9.2	9.2	9.2	7.9	7.9	6.6	5.3	5.3	3.9	2.6	2.6
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: P1214213

CATALOG NUMBER: 4SNLED-LD5-66SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2548.7	2548.7	2548.7	2548.7	2548.7	2548.7	2548.7	2548.7	2548.7	2548.7	2548.7
2.5°	2552.7	2536.9	2550.0	2573.7	2571.1	2568.5	2565.8	2571.1	2588.2	2579.0	2564.5
5°	2548.7	2532.9	2547.4	2569.8	2568.5	2564.5	2561.9	2567.2	2584.3	2575.1	2559.3
7.5°	2540.8	2526.3	2536.9	2559.3	2559.3	2556.6	2554.0	2559.3	2575.1	2567.2	2551.4
10°	2527.7	2517.1	2527.7	2548.7	2550.0	2544.8	2542.1	2548.7	2564.5	2560.6	2547.4
12.5°	2517.1	2506.6	2518.4	2539.5	2540.8	2535.6	2531.6	2539.5	2560.6	2563.2	2559.3
15°	2502.7	2493.4	2507.9	2530.3	2530.3	2526.3	2526.3	2536.9	2565.8	2577.7	2584.3
17.5°	2481.6	2475.0	2492.1	2514.5	2515.8	2513.2	2514.5	2535.6	2573.7	2602.7	2621.1
20°	2455.3	2452.6	2471.1	2494.8	2498.7	2500.0	2506.6	2538.2	2590.9	2630.4	2648.8
22.5°	2423.7	2425.0	2446.0	2471.1	2476.3	2480.3	2493.4	2538.2	2604.0	2646.1	2654.0
25°	2388.1	2392.1	2414.4	2444.7	2451.3	2459.2	2481.6	2539.5	2608.0	2635.6	2622.5
27.5°	2349.9	2357.8	2386.8	2418.4	2426.3	2439.5	2468.4	2531.6	2589.5	2590.9	2542.1
30°	2310.4	2319.7	2353.9	2390.7	2403.9	2417.1	2452.6	2513.2	2544.8	2502.7	2417.1
32.5°	2265.7	2278.8	2313.1	2357.8	2373.6	2390.7	2426.3	2477.6	2465.8	2375.0	2252.5
35°	2209.1	2227.5	2267.0	2319.7	2334.1	2356.5	2381.5	2393.4	2340.7	2211.7	2073.5
37.5°	2139.3	2166.9	2213.0	2273.6	2289.4	2303.9	2310.4	2277.5	2172.2	2032.7	1889.2
40°	2059.0	2101.1	2151.1	2218.3	2234.1	2234.1	2210.4	2140.6	2007.6	1824.7	1665.4
42.5°	1961.6	2012.9	2076.1	2143.2	2159.0	2140.6	2084.0	1961.6	1810.2	1606.1	1437.6
45°	1843.1	1911.5	1982.6	2052.4	2060.3	2019.5	1918.1	1762.8	1575.8	1386.3	1225.7
47.5°	1702.2	1791.7	1869.4	1948.4	1937.9	1869.4	1733.8	1557.4	1359.9	1180.9	1051.9
50°	1544.2	1649.6	1736.5	1811.5	1789.1	1694.3	1535.0	1350.7	1154.6	1001.9	895.2
52.5°	1375.7	1496.9	1583.7	1644.3	1614.0	1500.8	1325.7	1149.3	988.7	849.1	778.0
55°	1200.6	1323.1	1412.6	1460.0	1420.5	1298.1	1125.6	965.0	813.6	722.8	680.6
57.5°	1030.8	1145.3	1229.6	1267.8	1217.8	1095.3	936.0	800.4	691.2	614.8	593.7
60°	867.6	961.0	1041.3	1070.3	1016.3	903.1	766.2	658.2	577.9	525.3	514.7
62.5°	716.2	792.5	855.7	878.1	825.4	737.2	618.8	538.4	481.8	455.5	442.3
65°	591.1	635.9	700.4	696.4	664.8	583.2	496.3	439.7	402.8	385.7	377.8
67.5°	464.7	505.5	546.3	551.6	512.1	455.5	398.9	358.1	338.3	329.1	325.2
70°	359.4	389.7	414.7	408.1	387.0	351.5	316.0	293.6	285.7	281.7	281.7
72.5°	279.1	294.9	306.7	298.8	285.7	267.2	250.1	240.9	242.2	244.9	247.5
75°	215.9	219.9	222.5	214.6	212.0	200.1	198.8	200.1	208.0	215.9	219.9
77.5°	165.9	160.6	156.7	148.8	150.1	148.8	155.3	165.9	177.7	189.6	200.1
80°	127.7	115.9	106.6	98.7	102.7	109.3	122.4	138.2	154.0	167.2	180.4
82.5°	98.7	81.6	68.5	60.6	68.5	79.0	96.1	115.9	134.3	148.8	163.2
85°	76.4	56.6	40.8	32.9	40.8	56.6	75.0	97.4	117.2	133.0	147.4
87.5°	59.2	40.8	22.4	13.2	22.4	39.5	60.6	81.6	101.4	119.8	134.3
90°	47.4	27.6	10.5	2.6	11.8	27.6	47.4	68.5	88.2	108.0	122.4
92.5°	38.2	19.7	5.3	0.0	6.6	21.1	39.5	59.2	79.0	97.4	111.9
95°	31.6	15.8	3.9	0.0	5.3	15.8	31.6	51.3	69.8	88.2	100.1
97.5°	26.3	11.8	2.6	0.0	2.6	13.2	26.3	43.4	61.9	79.0	90.8
100°	22.4	10.5	2.6	0.0	2.6	10.5	22.4	38.2	54.0	69.8	81.6
102.5°	18.4	7.9	1.3	1.3	1.3	7.9	19.7	32.9	47.4	61.9	73.7
105°	17.1	6.6	1.3	1.3	1.3	6.6	17.1	29.0	42.1	55.3	65.8
107.5°	14.5	5.3	1.3	1.3	1.3	5.3	14.5	25.0	38.2	50.0	59.2
110°	11.8	5.3	1.3	1.3	1.3	5.3	11.8	22.4	32.9	43.4	52.7

TEST NUMBER: P1214213

CATALOG NUMBER: 4SNLED-LD5-66SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	10.5	3.9	1.3	1.3	1.3	3.9	10.5	19.7	29.0	39.5	47.4
115°	9.2	3.9	1.3	1.3	1.3	3.9	9.2	17.1	25.0	34.2	42.1
117.5°	7.9	3.9	1.3	1.3	1.3	2.6	7.9	14.5	22.4	30.3	38.2
120°	6.6	2.6	1.3	1.3	1.3	2.6	6.6	13.2	19.7	26.3	32.9
122.5°	6.6	2.6	1.3	1.3	1.3	2.6	5.3	10.5	17.1	22.4	29.0
125°	5.3	2.6	1.3	1.3	1.3	1.3	5.3	9.2	14.5	19.7	25.0
127.5°	5.3	2.6	1.3	1.3	1.3	1.3	3.9	7.9	11.8	17.1	22.4
130°	3.9	2.6	1.3	1.3	1.3	1.3	2.6	6.6	10.5	14.5	18.4
132.5°	3.9	2.6	1.3	1.3	1.3	1.3	2.6	5.3	7.9	11.8	15.8
135°	3.9	1.3	1.3	1.3	1.3	1.3	1.3	3.9	6.6	9.2	11.8
137.5°	2.6	1.3	1.3	1.3	1.3	1.3	1.3	2.6	5.3	6.6	10.5
140°	2.6	1.3	1.3	1.3	1.3	1.3	1.3	2.6	3.9	5.3	7.9
142.5°	2.6	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.6	3.9	6.6
145°	2.6	1.3	1.3	2.6	2.6	1.3	1.3	2.6	2.6	3.9	5.3
147.5°	2.6	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.6	2.6	3.9
150°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.9
152.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
155°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
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: P1214213

CATALOG NUMBER: 4SNLED-LD5-66SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2548.7	2548.7	2548.7	2548.7	2548.7	2548.7	2548.7	2548.7	2548.7	2548.7	2548.7
2.5°	2561.9	2531.6	2547.4	2542.1	2547.4	2560.6	2559.3	2555.3	2557.9	2551.4	2544.8
5°	2556.6	2526.3	2542.1	2535.6	2542.1	2555.3	2552.7	2548.7	2552.7	2544.8	2538.2
7.5°	2550.0	2522.4	2540.8	2539.5	2551.4	2568.5	2569.8	2569.8	2579.0	2567.2	2561.9
10°	2550.0	2535.6	2560.6	2569.8	2600.1	2622.5	2625.1	2630.4	2646.1	2643.5	2630.4
12.5°	2577.7	2575.1	2611.9	2634.3	2661.9	2693.5	2710.7	2715.9	2726.5	2718.6	2713.3
15°	2613.2	2626.4	2667.2	2692.2	2722.5	2746.2	2750.2	2752.8	2760.7	2748.8	2739.6
17.5°	2660.6	2668.5	2701.4	2712.0	2731.7	2735.7	2730.4	2717.2	2717.2	2690.9	2683.0
20°	2683.0	2679.1	2692.2	2675.1	2667.2	2643.5	2621.1	2596.1	2594.8	2567.2	2564.5
22.5°	2663.3	2636.9	2609.3	2567.2	2548.7	2514.5	2484.2	2469.7	2460.5	2425.0	2415.8
25°	2593.5	2529.0	2488.2	2438.1	2393.4	2353.9	2324.9	2294.6	2265.7	2236.7	2223.6
27.5°	2472.4	2411.8	2346.0	2276.2	2214.3	2153.8	2105.1	2074.8	2047.1	2009.0	1989.2
30°	2323.6	2239.4	2166.9	2099.8	1998.4	1924.7	1883.9	1823.3	1802.3	1785.2	1748.3
32.5°	2148.5	2047.1	1948.4	1857.6	1753.6	1685.1	1631.1	1586.4	1573.2	1528.4	1517.9
35°	1955.0	1822.0	1710.1	1620.6	1545.6	1462.6	1417.9	1387.6	1361.3	1331.0	1325.7
37.5°	1727.2	1607.4	1481.1	1402.1	1342.8	1271.7	1237.5	1216.4	1204.6	1182.2	1178.3
40°	1498.2	1378.4	1291.5	1212.5	1175.6	1137.4	1112.4	1103.2	1098.0	1090.1	1082.2
42.5°	1290.2	1184.8	1123.0	1070.3	1054.5	1036.1	1029.5	1034.8	1029.5	1026.9	1025.5
45°	1113.8	1033.4	990.0	974.2	970.3	965.0	970.3	979.5	980.8	978.2	978.2
47.5°	953.1	915.0	896.5	899.2	905.7	909.7	918.9	930.8	933.4	926.8	929.4
50°	847.8	825.4	821.5	832.0	846.5	851.8	862.3	871.5	870.2	867.6	864.9
52.5°	749.1	742.5	753.0	763.6	779.4	782.0	785.9	789.9	788.6	783.3	780.7
55°	666.1	671.4	680.6	684.6	696.4	695.1	696.4	696.4	691.2	688.5	684.6
57.5°	591.1	592.4	597.7	599.0	605.6	603.0	601.6	599.0	591.1	589.8	585.8
60°	514.7	512.1	524.0	514.7	520.0	514.7	513.4	506.8	499.0	497.6	495.0
62.5°	442.3	437.1	445.0	441.0	443.7	438.4	435.8	427.9	421.3	420.0	418.6
65°	377.8	375.2	383.1	381.8	384.4	377.8	375.2	369.9	364.7	363.4	362.0
67.5°	323.9	330.4	334.4	334.4	337.0	335.7	329.1	327.8	326.5	321.2	321.2
70°	284.4	288.3	296.2	297.5	296.2	298.8	293.6	292.3	290.9	288.3	287.0
72.5°	252.8	258.0	265.9	267.2	265.9	265.9	263.3	262.0	262.0	258.0	258.0
75°	227.8	234.3	240.9	240.9	240.9	238.3	235.7	235.7	233.0	231.7	229.1
77.5°	206.7	214.6	219.9	218.5	217.2	214.6	214.6	210.6	206.7	206.7	204.1
80°	190.9	196.2	200.1	198.8	197.5	193.5	192.2	188.3	185.6	181.7	181.7
82.5°	173.8	180.4	183.0	181.7	179.0	175.1	173.8	171.1	168.5	167.2	164.6
85°	159.3	165.9	167.2	164.6	161.9	159.3	158.0	156.7	155.3	152.7	152.7
87.5°	144.8	151.4	151.4	150.1	147.4	146.1	144.8	143.5	142.2	140.9	139.5
90°	133.0	138.2	138.2	136.9	135.6	134.3	133.0	131.6	130.3	129.0	129.0
92.5°	121.1	126.4	126.4	125.1	123.8	122.4	122.4	121.1	119.8	118.5	117.2
95°	110.6	115.9	115.9	115.9	114.5	113.2	113.2	111.9	110.6	110.6	109.3
97.5°	100.1	105.3	105.3	105.3	104.0	102.7	102.7	101.4	101.4	101.4	100.1
100°	90.8	94.8	96.1	96.1	94.8	94.8	94.8	93.5	93.5	93.5	92.2
102.5°	81.6	85.6	88.2	88.2	88.2	86.9	86.9	86.9	86.9	86.9	85.6
105°	73.7	77.7	80.3	81.6	81.6	81.6	81.6	81.6	81.6	81.6	81.6
107.5°	67.1	71.1	73.7	75.0	76.4	76.4	77.7	77.7	77.7	77.7	77.7
110°	60.6	64.5	68.5	69.8	71.1	72.4	72.4	73.7	72.4	72.4	72.4

TEST NUMBER: P1214213

CATALOG NUMBER: 4SNLED-LD5-66SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	54.0	59.2	61.9	64.5	65.8	67.1	68.5	68.5	68.5	68.5	68.5
115°	48.7	54.0	56.6	59.2	61.9	63.2	63.2	64.5	64.5	64.5	63.2
117.5°	43.4	48.7	51.3	54.0	55.3	57.9	59.2	59.2	59.2	59.2	57.9
120°	39.5	43.4	46.1	48.7	51.3	52.7	54.0	54.0	54.0	54.0	54.0
122.5°	34.2	38.2	42.1	44.8	46.1	47.4	48.7	48.7	48.7	48.7	48.7
125°	30.3	34.2	36.9	39.5	40.8	43.4	43.4	43.4	43.4	43.4	43.4
127.5°	26.3	30.3	32.9	35.5	36.9	38.2	39.5	39.5	39.5	39.5	39.5
130°	22.4	26.3	29.0	31.6	32.9	34.2	34.2	35.5	35.5	35.5	35.5
132.5°	19.7	22.4	25.0	27.6	29.0	30.3	30.3	31.6	31.6	31.6	31.6
135°	15.8	19.7	21.1	23.7	25.0	26.3	26.3	27.6	27.6	27.6	27.6
137.5°	13.2	15.8	18.4	21.1	22.4	22.4	23.7	23.7	25.0	25.0	25.0
140°	10.5	11.8	15.8	17.1	18.4	19.7	21.1	21.1	21.1	21.1	21.1
142.5°	7.9	10.5	11.8	14.5	15.8	17.1	18.4	18.4	18.4	18.4	18.4
145°	6.6	7.9	9.2	11.8	13.2	14.5	15.8	15.8	15.8	15.8	15.8
147.5°	5.3	6.6	7.9	9.2	10.5	11.8	13.2	13.2	13.2	13.2	13.2
150°	3.9	5.3	6.6	6.6	7.9	9.2	10.5	11.8	11.8	11.8	11.8
152.5°	3.9	3.9	5.3	5.3	6.6	7.9	9.2	9.2	9.2	9.2	9.2
155°	2.6	3.9	3.9	3.9	5.3	5.3	6.6	7.9	7.9	7.9	7.9
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

TEST NUMBER: P1214213

CATALOG NUMBER: 4SNLED-LD5-66SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2548.7	2548.7	2548.7	2548.7	2548.7	2548.7	2548.7	2548.7	2548.7	2548.7	2548.7
2.5°	2548.7	2554.0	2551.4	2547.4	2546.1	2552.7	2546.1	2515.8	2527.7	2529.0	2538.2
5°	2544.8	2548.7	2546.1	2543.5	2539.5	2547.4	2539.5	2507.9	2519.8	2521.1	2530.3
7.5°	2571.1	2572.4	2572.4	2565.8	2555.3	2559.3	2548.7	2513.2	2519.8	2519.8	2526.3
10°	2636.9	2639.6	2643.5	2626.4	2613.2	2602.7	2588.2	2544.8	2543.5	2532.9	2532.9
12.5°	2722.5	2715.9	2709.3	2701.4	2690.9	2677.7	2656.7	2605.3	2588.2	2571.1	2554.0
15°	2747.5	2744.9	2743.6	2739.6	2733.0	2729.1	2713.3	2661.9	2636.9	2615.9	2585.6
17.5°	2681.7	2687.0	2704.1	2705.4	2713.3	2729.1	2726.5	2690.9	2668.5	2659.3	2622.5
20°	2563.2	2564.5	2585.6	2594.8	2629.0	2655.4	2675.1	2671.2	2665.9	2676.4	2648.8
22.5°	2421.0	2430.2	2452.6	2467.1	2500.0	2530.3	2561.9	2579.0	2606.7	2650.1	2644.8
25°	2227.5	2239.4	2270.9	2294.6	2340.7	2386.8	2428.9	2459.2	2492.1	2575.1	2602.7
27.5°	1995.8	2014.2	2055.0	2078.7	2143.2	2190.6	2251.2	2310.4	2356.5	2451.3	2507.9
30°	1752.3	1768.0	1811.5	1844.4	1899.7	1964.2	2040.6	2124.8	2201.2	2297.3	2368.4
32.5°	1524.5	1541.6	1577.2	1606.1	1668.0	1722.0	1806.2	1910.2	1981.3	2114.3	2209.1
35°	1325.7	1341.5	1366.5	1391.5	1442.9	1498.2	1570.6	1671.9	1762.8	1901.0	2020.8
37.5°	1186.2	1188.8	1203.3	1217.8	1255.9	1298.1	1354.7	1444.2	1528.4	1677.2	1808.9
40°	1086.1	1086.1	1094.0	1098.0	1115.1	1140.1	1175.6	1245.4	1315.2	1428.4	1589.0
42.5°	1024.2	1021.6	1021.6	1022.9	1021.6	1033.4	1054.5	1087.4	1149.3	1242.8	1367.8
45°	978.2	972.9	968.9	959.7	954.5	954.5	955.8	967.6	1003.2	1063.7	1165.1
47.5°	926.8	925.5	918.9	908.4	899.2	892.6	882.0	878.1	888.6	922.9	991.3
50°	867.6	861.0	854.4	846.5	836.0	829.4	809.6	811.0	801.7	817.5	853.1
52.5°	780.7	775.4	772.8	766.2	762.2	759.6	743.8	728.0	724.1	726.7	739.9
55°	684.6	687.2	676.7	681.9	680.6	668.8	662.2	650.3	646.4	645.1	651.7
57.5°	584.5	587.2	580.6	585.8	585.8	579.3	575.3	575.3	566.1	558.2	567.4
60°	493.7	488.4	492.4	499.0	499.0	495.0	492.4	492.4	485.8	483.2	489.7
62.5°	420.0	414.7	418.6	425.2	426.5	423.9	421.3	421.3	413.4	413.4	418.6
65°	363.4	364.7	363.4	368.6	368.6	369.9	367.3	364.7	355.5	359.4	358.1
67.5°	322.5	321.2	321.2	326.5	325.2	327.8	325.2	321.2	314.6	309.4	308.1
70°	288.3	287.0	287.0	289.6	290.9	290.9	289.6	287.0	277.8	272.5	268.6
72.5°	258.0	256.7	258.0	259.3	260.7	262.0	260.7	258.0	250.1	243.6	237.0
75°	230.4	229.1	233.0	233.0	234.3	234.3	235.7	234.3	227.8	219.9	212.0
77.5°	202.7	204.1	208.0	209.3	212.0	213.3	214.6	214.6	208.0	201.4	190.9
80°	180.4	183.0	185.6	186.9	189.6	193.5	194.8	196.2	190.9	184.3	172.5
82.5°	164.6	165.9	168.5	169.8	173.8	175.1	176.4	179.0	176.4	169.8	156.7
85°	151.4	152.7	155.3	155.3	158.0	160.6	161.9	163.2	161.9	155.3	142.2
87.5°	139.5	140.9	142.2	143.5	144.8	146.1	147.4	148.8	147.4	140.9	129.0
90°	129.0	129.0	130.3	130.3	131.6	133.0	135.6	135.6	134.3	129.0	117.2
92.5°	117.2	118.5	118.5	119.8	121.1	122.4	123.8	123.8	122.4	117.2	106.6
95°	109.3	109.3	110.6	110.6	111.9	111.9	113.2	113.2	111.9	106.6	96.1
97.5°	100.1	100.1	100.1	100.1	101.4	101.4	102.7	102.7	101.4	96.1	86.9
100°	92.2	92.2	92.2	92.2	92.2	93.5	93.5	93.5	92.2	86.9	77.7
102.5°	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	82.9	79.0	69.8
105°	81.6	81.6	81.6	80.3	80.3	80.3	79.0	79.0	75.0	71.1	63.2
107.5°	76.4	76.4	76.4	75.0	75.0	73.7	72.4	72.4	68.5	64.5	56.6
110°	72.4	72.4	72.4	71.1	69.8	68.5	67.1	65.8	61.9	56.6	50.0

TEST NUMBER: P1214213

CATALOG NUMBER: 4SNLED-LD5-66SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	68.5	68.5	67.1	67.1	65.8	64.5	61.9	60.6	56.6	51.3	44.8
115°	63.2	63.2	63.2	61.9	60.6	59.2	57.9	55.3	51.3	46.1	39.5
117.5°	57.9	57.9	57.9	56.6	55.3	54.0	52.7	50.0	46.1	40.8	35.5
120°	52.7	52.7	52.7	51.3	50.0	48.7	47.4	44.8	40.8	36.9	30.3
122.5°	48.7	48.7	47.4	46.1	44.8	43.4	42.1	39.5	36.9	31.6	26.3
125°	43.4	43.4	42.1	42.1	40.8	39.5	38.2	35.5	31.6	27.6	23.7
127.5°	39.5	38.2	38.2	38.2	36.9	35.5	32.9	31.6	27.6	23.7	19.7
130°	34.2	34.2	34.2	32.9	32.9	31.6	29.0	26.3	23.7	21.1	17.1
132.5°	30.3	30.3	30.3	30.3	29.0	27.6	25.0	23.7	21.1	17.1	14.5
135°	27.6	27.6	26.3	26.3	25.0	23.7	22.4	19.7	17.1	14.5	11.8
137.5°	23.7	23.7	23.7	22.4	22.4	21.1	18.4	17.1	15.8	13.2	10.5
140°	21.1	21.1	19.7	19.7	18.4	18.4	17.1	14.5	13.2	10.5	9.2
142.5°	18.4	18.4	17.1	17.1	15.8	15.8	14.5	13.2	10.5	9.2	6.6
145°	15.8	15.8	14.5	14.5	14.5	13.2	11.8	10.5	9.2	7.9	6.6
147.5°	13.2	13.2	13.2	11.8	11.8	10.5	10.5	9.2	7.9	6.6	5.3
150°	11.8	11.8	10.5	10.5	10.5	9.2	7.9	7.9	6.6	5.3	3.9
152.5°	9.2	9.2	9.2	9.2	7.9	7.9	6.6	6.6	5.3	3.9	3.9
155°	7.9	7.9	7.9	6.6	6.6	6.6	5.3	5.3	3.9	3.9	2.6
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: P1214213

CATALOG NUMBER: 4SNLED-LD5-66SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2548.7	2548.7	2548.7	2548.7	2548.7	2548.7	2548.7
2.5°	2534.2	2532.9	2544.8	2543.5	2527.7	2551.4	2567.2
5°	2527.7	2526.3	2536.9	2539.5	2522.4	2547.4	2564.5
7.5°	2522.4	2521.1	2532.9	2536.9	2519.8	2542.1	2560.6
10°	2523.7	2517.1	2527.7	2530.3	2514.5	2538.2	2554.0
12.5°	2532.9	2517.1	2521.1	2521.1	2506.6	2527.7	2544.8
15°	2555.3	2522.4	2517.1	2513.2	2494.8	2514.5	2531.6
17.5°	2580.3	2535.6	2517.1	2504.0	2481.6	2498.7	2517.1
20°	2605.3	2550.0	2519.8	2498.7	2468.4	2484.2	2497.4
22.5°	2617.2	2563.2	2522.4	2490.8	2452.6	2460.5	2475.0
25°	2601.4	2557.9	2517.1	2479.0	2432.9	2434.2	2446.0
27.5°	2543.5	2531.6	2505.3	2467.1	2417.1	2410.5	2419.7
30°	2444.7	2477.6	2479.0	2451.3	2398.6	2385.5	2389.4
32.5°	2306.5	2380.2	2423.7	2418.4	2372.3	2353.9	2356.5
35°	2147.2	2239.4	2334.1	2365.7	2332.8	2318.3	2313.1
37.5°	1956.3	2080.1	2206.4	2284.1	2278.8	2269.6	2264.4
40°	1745.7	1894.4	2044.5	2168.3	2206.4	2206.4	2209.1
42.5°	1520.5	1694.3	1858.9	2015.5	2105.1	2124.8	2132.7
45°	1303.3	1478.4	1657.5	1837.8	1957.6	2019.5	2041.9
47.5°	1105.9	1282.3	1452.1	1649.6	1808.9	1889.2	1924.7
50°	937.3	1069.0	1248.0	1444.2	1618.0	1716.7	1786.5
52.5°	797.8	900.5	1057.1	1240.1	1415.2	1550.8	1615.3
55°	680.6	750.4	883.4	1041.3	1208.5	1349.4	1424.4
57.5°	581.9	637.2	728.0	859.7	1000.5	1140.1	1220.4
60°	495.0	533.2	595.1	699.1	818.9	938.7	1016.3
62.5°	420.0	445.0	485.8	562.1	655.6	749.1	821.5
65°	362.0	372.6	394.9	442.3	513.4	584.5	646.4
67.5°	305.4	312.0	329.1	358.1	393.6	445.0	485.8
70°	263.3	263.3	264.6	281.7	300.2	333.1	362.0
72.5°	229.1	225.1	217.2	221.2	225.1	243.6	262.0
75°	201.4	192.2	179.0	173.8	171.1	173.8	184.3
77.5°	177.7	164.6	148.8	135.6	125.1	121.1	130.3
80°	158.0	142.2	123.8	106.6	89.5	80.3	84.3
82.5°	142.2	122.4	102.7	82.9	63.2	50.0	50.0
85°	125.1	106.6	85.6	64.5	44.8	27.6	25.0
87.5°	113.2	93.5	71.1	51.3	31.6	14.5	7.9
90°	101.4	81.6	60.6	40.8	22.4	6.6	0.0
92.5°	90.8	72.4	52.7	32.9	15.8	3.9	0.0
95°	81.6	64.5	44.8	27.6	13.2	2.6	1.3
97.5°	72.4	56.6	39.5	22.4	9.2	2.6	1.3
100°	65.8	50.0	34.2	18.4	7.9	1.3	1.3
102.5°	57.9	44.8	29.0	15.8	6.6	1.3	1.3
105°	51.3	39.5	25.0	13.2	5.3	1.3	1.3
107.5°	46.1	34.2	22.4	11.8	5.3	1.3	1.3
110°	40.8	30.3	19.7	10.5	3.9	1.3	1.3



TEST NUMBER: P1214213

CATALOG NUMBER: 4SNLED-LD5-66SL-LC-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	36.9	26.3	17.1	9.2	2.6	1.3	1.3
115°	31.6	23.7	14.5	7.9	2.6	1.3	1.3
117.5°	27.6	19.7	13.2	6.6	2.6	1.3	1.3
120°	23.7	17.1	10.5	5.3	1.3	1.3	1.3
122.5°	21.1	14.5	9.2	5.3	1.3	1.3	1.3
125°	18.4	13.2	7.9	3.9	1.3	1.3	1.3
127.5°	15.8	10.5	6.6	2.6	1.3	1.3	1.3
130°	13.2	9.2	5.3	2.6	1.3	1.3	1.3
132.5°	10.5	7.9	5.3	2.6	1.3	1.3	1.3
135°	9.2	6.6	3.9	2.6	1.3	1.3	1.3
137.5°	7.9	5.3	2.6	2.6	2.6	1.3	1.3
140°	6.6	3.9	2.6	2.6	2.6	2.6	1.3
142.5°	5.3	3.9	2.6	2.6	2.6	2.6	1.3
145°	3.9	2.6	2.6	2.6	2.6	2.6	1.3
147.5°	3.9	2.6	2.6	2.6	2.6	2.6	1.3
150°	2.6	2.6	2.6	2.6	2.6	2.6	2.6
152.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6
155°	2.6	2.6	2.6	2.6	2.6	2.6	2.6
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)