

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P#

Luminaire Tested: **8SNLED-LD5-68SL-LN-UNV-L930-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33519)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SNLED-LD5-68SL-LN-UNV-L930-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

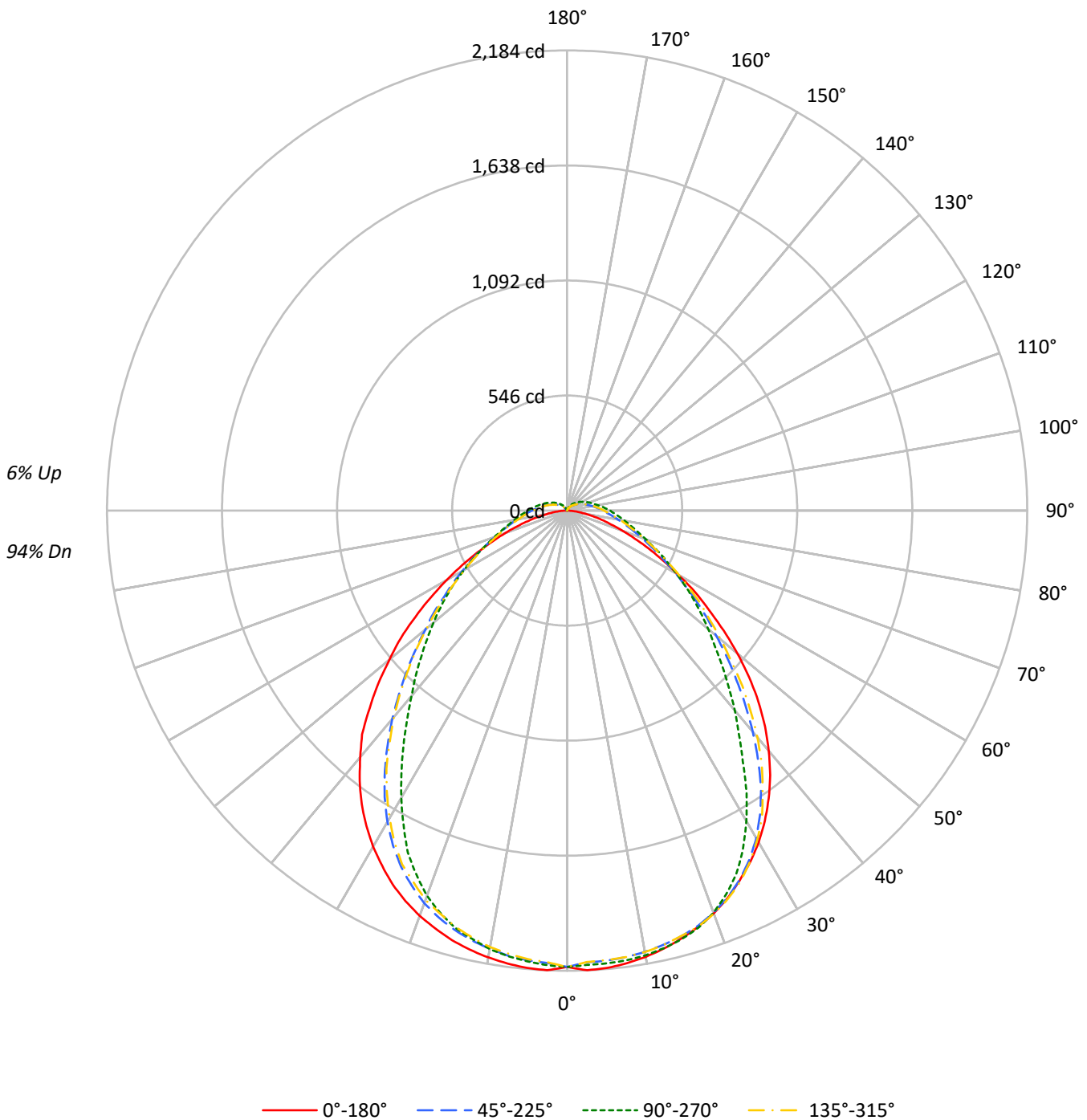
Lumens per Lamp: N/A  
Luminaire Lumens: 5481.0 lumens  
Efficiency: N/A  
Efficacy: 109.6 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 50  
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: 25 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	0	
RCR																						
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94				94
1	107	103	98	95	104	100	96	92	94	91	88	89	87	85	85	83	81	79				79
2	98	90	84	78	95	88	82	77	83	78	74	79	75	72	75	72	69	67				67
3	90	80	72	66	87	78	71	65	74	68	63	71	66	61	67	63	60	57				57
4	83	72	63	57	80	70	62	56	67	60	55	64	58	53	61	56	52	50				50
5	77	64	56	50	74	63	55	49	60	53	48	58	52	47	55	50	46	44				44
6	71	58	50	44	69	57	49	43	55	48	42	52	46	42	50	45	41	39				39
7	66	53	45	39	64	52	44	39	50	43	38	48	42	37	46	41	37	35				35
8	62	49	41	35	60	48	40	35	46	39	34	44	38	34	43	37	33	31				31
9	58	45	37	32	56	44	37	31	42	36	31	41	35	30	40	34	30	28				28
10	54	42	34	29	53	41	34	29	39	33	28	38	32	28	37	31	27	26				26

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	8751	8751	8751	8751
5°	8825	8472	8825	8435
10°	8798	8247	8813	8133
15°	8754	8001	8794	7792
20°	8699	7684	8750	7359
25°	8573	7214	8668	6789
30°	8406	6523	8516	6039
35°	8137	5677	8295	5286
40°	7746	4965	7951	4606
45°	7225	4316	7460	4068
50°	6506	3792	6793	3601
55°	5648	3349	6058	3179
60°	4771	2940	5202	2771
65°	3934	2600	4331	2411
70°	3158	2307	3535	2134
75°	2514	2130	2829	1960
80°	1860	2056	2191	1879
85°	1219	2067	1640	1900



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	205.3	3.7
10°-20°	588.8	10.7
20°-30°	872.6	15.9
30°-40°	969.4	17.7
40°-50°	878.8	16.0
50°-60°	680.9	12.4
60°-70°	462.4	8.4
70°-80°	294.2	5.4
80°-90°	188.1	3.4
90°-100°	126.8	2.3
100°-110°	86.9	1.6
110°-120°	57.9	1.1
120°-130°	36.0	0.7
130°-140°	19.9	0.4
140°-150°	9.4	0.2
150°-160°	3.4	0.1
160°-170°	0.2	0.0
170°-180°	0.0	0.0
0°-30°	1666.7	30.4
0°-40°	2636.1	48.1
0°-60°	4195.8	76.6
0°-90°	5140.4	93.8
90°-120°	271.6	5.0
90°-150°	336.9	6.1
90°-180°	341.0	6.2
0°-180°	5481.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2166	2166	2166	2166	2166	
5°	2179	2157	2179	2148	2179	207
15°	2101	2105	2111	2050	2101	593
25°	1937	1901	1958	1789	1937	892
35°	1668	1453	1700	1353	1668	1040
45°	1284	1039	1326	979	1284	986
55°	820	730	879	693	820	738
65°	425	491	468	455	425	426
75°	170	328	192	301	170	183
85°	31	236	42	217	31	37
90°	0	204	2	186	0	2
95°	1	174	0	162	1	1
105°	1	128	0	120	1	1
115°	1	96	0	89	1	1
125°	1	72	1	63	1	1
135°	1	50	1	40	1	1
145°	1	32	1	23	1	1
155°	1	18	1	8	1	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2165.8	2165.8	2165.8	2165.8	2165.8	2165.8	2165.8	2165.8	2165.8	2165.8	2165.8
2.5°	2183.6	2181.3	2178.9	2175.3	2178.9	2188.4	2182.5	2169.3	2167.0	2145.5	2155.1
5°	2178.9	2175.3	2172.9	2169.3	2174.1	2186.0	2180.1	2168.2	2164.6	2144.3	2155.1
7.5°	2167.0	2164.6	2161.0	2161.0	2165.8	2177.7	2172.9	2159.8	2157.4	2137.2	2149.1
10°	2150.3	2149.1	2146.7	2146.7	2151.5	2165.8	2159.8	2147.9	2145.5	2126.5	2139.6
12.5°	2128.8	2130.0	2126.5	2126.5	2133.6	2147.9	2143.1	2130.0	2127.7	2111.0	2124.1
15°	2101.4	2102.6	2100.3	2101.4	2108.6	2125.3	2119.3	2107.4	2105.0	2091.9	2102.6
17.5°	2070.5	2071.7	2071.7	2070.5	2078.8	2095.5	2090.7	2080.0	2076.4	2065.7	2078.8
20°	2034.7	2034.7	2034.7	2034.7	2044.3	2060.9	2055.0	2046.6	2039.5	2031.2	2041.9
22.5°	1990.7	1989.5	1990.7	1994.2	2003.8	2016.9	2013.3	2003.8	1993.0	1988.3	1996.6
25°	1937.0	1940.6	1941.8	1945.4	1957.3	1968.0	1964.4	1954.9	1938.2	1934.7	1937.0
27.5°	1881.1	1883.4	1887.0	1885.8	1902.5	1913.2	1906.1	1897.7	1873.9	1870.3	1867.9
30°	1817.9	1821.5	1823.9	1822.7	1835.8	1847.7	1840.5	1829.8	1797.7	1795.3	1776.2
32.5°	1746.4	1750.0	1752.4	1752.4	1771.5	1776.2	1763.1	1747.6	1713.1	1704.7	1688.1
35°	1667.8	1671.4	1672.6	1672.6	1691.6	1690.4	1673.8	1652.3	1614.2	1603.5	1574.9
37.5°	1583.2	1585.6	1586.8	1594.0	1602.3	1595.1	1573.7	1546.3	1517.7	1487.9	1457.0
40°	1487.9	1491.5	1493.9	1498.6	1507.0	1498.6	1467.7	1434.3	1403.3	1370.0	1339.0
42.5°	1390.2	1401.0	1398.6	1397.4	1402.2	1379.5	1355.7	1317.6	1286.6	1252.0	1221.1
45°	1284.2	1283.0	1289.0	1291.4	1290.2	1271.1	1237.8	1203.2	1172.2	1136.5	1110.3
47.5°	1172.2	1171.0	1175.8	1178.2	1171.0	1150.8	1124.6	1085.3	1059.1	1028.1	1007.8
50°	1054.3	1054.3	1061.4	1054.3	1050.7	1030.5	1009.0	969.7	949.5	922.1	910.1
52.5°	936.4	947.1	939.9	937.5	934.0	913.7	897.0	864.9	848.2	836.3	822.0
55°	819.6	831.5	826.8	823.2	822.0	805.3	789.8	766.0	755.3	746.9	738.6
57.5°	720.7	719.5	717.2	713.6	714.8	701.7	686.2	673.1	668.3	664.7	667.1
60°	606.4	615.9	612.3	613.5	614.7	612.3	599.2	590.9	592.1	593.3	596.8
62.5°	512.3	520.6	526.6	521.8	524.2	527.7	520.6	518.2	523.0	527.7	532.5
65°	425.3	433.6	439.6	438.4	445.5	452.7	451.5	453.9	464.6	470.6	476.5
67.5°	346.7	355.0	363.3	364.5	375.3	386.0	390.7	399.1	411.0	419.3	426.5
70°	278.8	285.9	295.4	301.4	315.7	330.0	338.3	355.0	362.2	374.1	378.8
72.5°	218.0	224.0	237.1	251.4	263.3	281.1	297.8	312.1	322.8	335.9	341.9
75°	170.4	172.7	187.0	203.7	220.4	240.6	258.5	274.0	288.3	301.4	310.9
77.5°	125.1	128.7	141.8	164.4	183.5	204.9	225.2	241.8	257.3	270.4	283.5
80°	87.0	94.1	108.4	131.0	152.5	176.3	195.4	214.4	231.1	244.2	257.3
82.5°	56.0	61.9	82.2	104.8	127.5	151.3	171.5	190.6	208.5	222.8	234.7
85°	31.0	39.3	59.6	83.4	106.0	129.9	151.3	170.4	188.2	201.3	213.2
87.5°	11.9	23.8	42.9	65.5	88.2	110.8	133.4	151.3	169.2	183.5	194.2
90°	0.0	14.3	32.2	54.8	77.4	100.1	121.5	140.6	157.3	170.4	182.3
92.5°	1.2	9.5	25.0	44.1	65.5	87.0	107.2	126.3	143.0	156.1	166.8
95°	1.2	7.1	20.3	38.1	57.2	77.4	96.5	114.4	129.9	143.0	153.7
97.5°	1.2	4.8	16.7	33.4	50.0	70.3	88.2	104.8	119.1	132.2	140.6
100°	1.2	4.8	14.3	28.6	45.3	63.1	79.8	96.5	109.6	120.3	129.9
102.5°	1.2	3.6	11.9	25.0	40.5	56.0	72.7	88.2	100.1	110.8	120.3
105°	1.2	3.6	10.7	21.4	35.7	51.2	65.5	79.8	92.9	102.5	110.8
107.5°	1.2	2.4	9.5	17.9	31.0	46.5	60.8	72.7	84.6	94.1	102.5
110°	1.2	2.4	8.3	16.7	27.4	41.7	54.8	66.7	77.4	87.0	94.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.2	2.4	7.1	15.5	25.0	36.9	50.0	60.8	71.5	79.8	87.0
115°	1.2	2.4	7.1	14.3	22.6	32.2	44.1	56.0	64.3	73.9	79.8
117.5°	1.2	2.4	6.0	11.9	21.4	29.8	40.5	50.0	59.6	67.9	73.9
120°	1.2	2.4	6.0	10.7	19.1	27.4	35.7	45.3	54.8	60.8	66.7
122.5°	1.2	2.4	4.8	10.7	16.7	25.0	32.2	40.5	48.8	56.0	61.9
125°	1.2	2.4	4.8	9.5	15.5	22.6	29.8	35.7	44.1	50.0	56.0
127.5°	1.2	2.4	4.8	8.3	14.3	20.3	27.4	33.4	39.3	45.3	50.0
130°	1.2	2.4	3.6	7.1	13.1	17.9	23.8	31.0	35.7	40.5	45.3
132.5°	1.2	2.4	3.6	7.1	10.7	15.5	21.4	27.4	32.2	36.9	40.5
135°	1.2	2.4	3.6	6.0	9.5	14.3	17.9	23.8	28.6	33.4	36.9
137.5°	1.2	2.4	3.6	6.0	8.3	11.9	15.5	20.3	25.0	28.6	33.4
140°	1.2	2.4	3.6	4.8	7.1	10.7	14.3	16.7	21.4	25.0	28.6
142.5°	1.2	2.4	3.6	4.8	7.1	9.5	11.9	14.3	17.9	21.4	25.0
145°	1.2	2.4	3.6	4.8	6.0	8.3	10.7	13.1	14.3	17.9	20.3
147.5°	1.2	2.4	3.6	4.8	4.8	7.1	9.5	10.7	13.1	14.3	16.7
150°	1.2	2.4	3.6	3.6	4.8	6.0	8.3	9.5	10.7	13.1	14.3
152.5°	1.2	2.4	3.6	3.6	4.8	6.0	7.1	8.3	9.5	10.7	11.9
155°	1.2	2.4	3.6	3.6	3.6	4.8	6.0	7.1	8.3	9.5	10.7
157.5°	2.4	2.4	2.4	3.6	3.6	4.8	4.8	6.0	7.1	7.1	8.3
160°	2.4	2.4	2.4	3.6	3.6	3.6	4.8	4.8	6.0	6.0	7.1
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2165.8	2165.8	2165.8	2165.8	2165.8	2165.8	2165.8	2165.8	2165.8	2165.8	2165.8
2.5°	2152.7	2156.2	2167.0	2167.0	2164.6	2162.2	2162.2	2158.6	2161.0	2165.8	2163.4
5°	2152.7	2156.2	2167.0	2167.0	2164.6	2162.2	2161.0	2157.4	2161.0	2165.8	2163.4
7.5°	2145.5	2150.3	2161.0	2161.0	2158.6	2157.4	2155.1	2152.7	2156.2	2161.0	2158.6
10°	2136.0	2140.8	2151.5	2151.5	2149.1	2149.1	2145.5	2143.1	2147.9	2151.5	2150.3
12.5°	2121.7	2127.7	2137.2	2136.0	2133.6	2134.8	2131.2	2126.5	2131.2	2134.8	2136.0
15°	2101.4	2108.6	2118.1	2115.7	2112.2	2114.5	2108.6	2105.0	2108.6	2115.7	2114.5
17.5°	2075.2	2080.0	2087.1	2087.1	2083.6	2081.2	2078.8	2075.2	2077.6	2082.4	2083.6
20°	2038.3	2044.3	2047.8	2044.3	2043.1	2039.5	2034.7	2031.2	2035.9	2043.1	2044.3
22.5°	1989.5	1990.7	1999.0	1990.7	1984.7	1983.5	1978.7	1971.6	1978.7	1984.7	1985.9
25°	1928.7	1934.7	1931.1	1916.8	1916.8	1907.3	1904.9	1901.3	1902.5	1913.2	1918.0
27.5°	1851.3	1853.7	1844.1	1832.2	1821.5	1815.5	1807.2	1808.4	1808.4	1822.7	1827.4
30°	1766.7	1753.6	1745.2	1726.2	1717.8	1703.6	1701.2	1701.2	1698.8	1705.9	1727.4
32.5°	1665.4	1647.6	1634.5	1616.6	1602.3	1588.0	1580.8	1584.4	1583.2	1601.1	1608.2
35°	1554.6	1543.9	1516.5	1493.9	1485.5	1464.1	1464.1	1453.4	1460.5	1480.8	1489.1
37.5°	1437.9	1421.2	1398.6	1373.6	1367.6	1350.9	1345.0	1339.0	1354.5	1358.1	1366.4
40°	1318.8	1303.3	1281.8	1258.0	1258.0	1237.8	1237.8	1237.8	1238.9	1246.1	1261.6
42.5°	1205.6	1188.9	1169.9	1153.2	1150.8	1135.3	1135.3	1134.1	1136.5	1142.5	1156.7
45°	1096.0	1082.9	1062.6	1054.3	1055.5	1038.8	1042.4	1038.8	1043.6	1049.5	1054.3
47.5°	994.7	986.4	978.1	966.1	962.6	961.4	955.4	950.7	959.0	959.0	966.1
50°	900.6	895.9	891.1	883.9	885.1	880.4	873.2	873.2	879.2	880.4	885.1
52.5°	818.4	812.5	806.5	807.7	808.9	806.5	802.9	799.4	802.9	805.3	811.3
55°	736.2	731.5	737.4	735.0	737.4	735.0	732.6	730.3	736.2	732.6	738.6
57.5°	662.4	667.1	669.5	664.7	668.3	665.9	667.1	663.6	668.3	670.7	669.5
60°	594.5	601.6	598.0	599.2	604.0	601.6	596.8	600.4	605.2	606.4	605.2
62.5°	532.5	540.8	544.4	542.0	543.2	540.8	544.4	539.7	545.6	548.0	544.4
65°	476.5	486.0	488.4	488.4	488.4	486.0	489.6	490.8	493.2	493.2	490.8
67.5°	428.9	437.2	439.6	442.0	439.6	437.2	437.2	438.4	443.2	445.5	443.2
70°	386.0	394.3	395.5	395.5	396.7	399.1	394.3	396.7	400.3	401.5	400.3
72.5°	349.0	357.4	359.8	358.6	359.8	361.0	361.0	358.6	362.2	364.5	364.5
75°	319.3	324.0	326.4	326.4	327.6	328.8	328.8	327.6	330.0	331.2	332.4
77.5°	291.9	295.4	299.0	299.0	300.2	299.0	301.4	301.4	302.6	303.8	305.0
80°	264.5	269.2	271.6	272.8	275.2	276.4	276.4	276.4	277.6	278.8	278.8
82.5°	243.0	246.6	250.2	253.7	253.7	254.9	254.9	254.9	256.1	256.1	257.3
85°	221.6	226.3	229.9	232.3	233.5	234.7	234.7	235.9	235.9	235.9	237.1
87.5°	202.5	208.5	210.9	213.2	214.4	216.8	216.8	216.8	218.0	218.0	218.0
90°	189.4	195.4	197.8	200.1	201.3	202.5	202.5	203.7	203.7	204.9	204.9
92.5°	173.9	179.9	184.7	184.7	185.8	188.2	187.0	187.0	188.2	189.4	189.4
95°	162.0	166.8	170.4	171.5	172.7	172.7	172.7	173.9	172.7	173.9	173.9
97.5°	147.7	152.5	156.1	158.4	159.6	159.6	159.6	160.8	159.6	160.8	160.8
100°	135.8	140.6	144.1	145.3	147.7	147.7	147.7	147.7	147.7	147.7	148.9
102.5°	126.3	131.0	133.4	134.6	135.8	137.0	137.0	137.0	137.0	138.2	138.2
105°	116.7	121.5	123.9	125.1	126.3	127.5	127.5	127.5	128.7	128.7	127.5
107.5°	108.4	112.0	114.4	116.7	117.9	117.9	119.1	119.1	119.1	119.1	119.1
110°	100.1	103.6	107.2	109.6	109.6	110.8	110.8	112.0	112.0	110.8	112.0





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-68SL-LN-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	91.7	96.5	98.9	101.3	102.5	103.6	103.6	103.6	103.6	103.6	103.6
115°	84.6	89.3	91.7	94.1	95.3	96.5	96.5	96.5	96.5	96.5	96.5
117.5°	78.6	83.4	85.8	87.0	88.2	89.3	90.5	90.5	90.5	90.5	89.3
120°	72.7	76.2	78.6	81.0	82.2	83.4	83.4	83.4	83.4	83.4	83.4
122.5°	66.7	70.3	72.7	75.1	76.2	77.4	77.4	77.4	77.4	77.4	77.4
125°	60.8	64.3	66.7	69.1	70.3	71.5	71.5	71.5	71.5	71.5	71.5
127.5°	54.8	58.4	61.9	63.1	64.3	65.5	65.5	65.5	66.7	65.5	65.5
130°	48.8	52.4	56.0	57.2	58.4	59.6	60.8	60.8	60.8	60.8	59.6
132.5°	44.1	47.7	50.0	51.2	53.6	53.6	54.8	54.8	54.8	54.8	53.6
135°	40.5	42.9	45.3	46.5	48.8	48.8	48.8	50.0	50.0	48.8	47.7
137.5°	35.7	38.1	40.5	41.7	42.9	44.1	44.1	45.3	44.1	44.1	44.1
140°	33.4	34.5	36.9	38.1	39.3	39.3	39.3	40.5	40.5	39.3	39.3
142.5°	28.6	31.0	33.4	34.5	35.7	35.7	35.7	35.7	35.7	35.7	35.7
145°	23.8	27.4	28.6	31.0	31.0	32.2	32.2	32.2	32.2	32.2	31.0
147.5°	20.3	22.6	26.2	27.4	27.4	28.6	28.6	28.6	28.6	28.6	27.4
150°	15.5	17.9	21.4	23.8	23.8	25.0	25.0	25.0	25.0	23.8	23.8
152.5°	13.1	15.5	16.7	19.1	20.3	20.3	20.3	21.4	20.3	20.3	20.3
155°	11.9	13.1	14.3	15.5	16.7	17.9	17.9	17.9	17.9	16.7	16.7
157.5°	9.5	10.7	11.9	13.1	14.3	15.5	15.5	15.5	15.5	15.5	14.3
160°	7.1	8.3	9.5	9.5	10.7	11.9	13.1	11.9	11.9	11.9	11.9
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: P#

CATALOG NUMBER: 8SNLED-LD5-68SL-LN-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2165.8	2165.8	2165.8	2165.8	2165.8	2165.8	2165.8	2165.8	2165.8	2165.8	2165.8
2.5°	2161.0	2159.8	2163.4	2157.4	2139.6	2144.3	2141.9	2152.7	2155.1	2157.4	2168.2
5°	2161.0	2159.8	2162.2	2157.4	2138.4	2141.9	2139.6	2150.3	2152.7	2153.9	2164.6
7.5°	2156.2	2155.1	2158.6	2152.7	2132.4	2137.2	2133.6	2144.3	2145.5	2146.7	2156.2
10°	2146.7	2145.5	2147.9	2143.1	2122.9	2127.7	2122.9	2133.6	2133.6	2136.0	2143.1
12.5°	2132.4	2130.0	2134.8	2128.8	2106.2	2112.2	2109.8	2116.9	2118.1	2119.3	2126.5
15°	2112.2	2109.8	2113.4	2109.8	2089.5	2090.7	2087.1	2097.9	2099.1	2096.7	2103.8
17.5°	2082.4	2080.0	2087.1	2084.8	2064.5	2069.3	2068.1	2070.5	2074.0	2068.1	2077.6
20°	2045.5	2047.8	2050.2	2051.4	2035.9	2035.9	2034.7	2039.5	2043.1	2038.3	2045.5
22.5°	1990.7	1996.6	2003.8	2006.1	1995.4	1994.2	2001.4	1999.0	2002.6	2000.2	2004.9
25°	1921.6	1933.5	1940.6	1947.8	1941.8	1944.2	1954.9	1957.3	1957.3	1956.1	1960.9
27.5°	1835.8	1851.3	1864.4	1879.9	1873.9	1878.7	1896.5	1898.9	1903.7	1898.9	1908.5
30°	1733.3	1747.6	1772.6	1795.3	1797.7	1804.8	1829.8	1832.2	1845.3	1840.5	1844.1
32.5°	1630.9	1638.0	1666.6	1689.3	1703.6	1721.4	1748.8	1753.6	1771.5	1775.0	1775.0
35°	1502.2	1522.5	1548.7	1580.8	1598.7	1617.8	1654.7	1661.9	1688.1	1696.4	1705.9
37.5°	1393.8	1412.9	1429.6	1462.9	1495.1	1516.5	1546.3	1564.2	1591.6	1607.1	1619.0
40°	1278.3	1293.7	1311.6	1345.0	1372.4	1404.5	1434.3	1455.8	1490.3	1508.2	1523.7
42.5°	1168.7	1180.6	1199.6	1223.5	1252.0	1287.8	1316.4	1341.4	1378.3	1403.3	1421.2
45°	1071.0	1078.1	1094.8	1112.7	1137.7	1174.6	1202.0	1234.2	1264.0	1290.2	1311.6
47.5°	979.2	988.8	997.1	1009.0	1031.7	1054.3	1086.5	1117.4	1147.2	1175.8	1197.3
50°	894.7	894.7	907.8	916.1	931.6	951.8	976.9	998.3	1035.2	1055.5	1082.9
52.5°	812.5	817.2	824.4	829.1	841.1	854.2	874.4	892.3	923.3	942.3	968.5
55°	739.8	744.6	748.1	750.5	757.7	773.1	780.3	794.6	816.0	831.5	854.2
57.5°	670.7	673.1	676.7	677.8	679.0	688.6	694.5	698.1	719.5	735.0	754.1
60°	607.6	607.6	611.1	609.9	608.8	613.5	612.3	615.9	629.0	638.5	646.9
62.5°	548.0	548.0	549.2	546.8	545.6	545.6	540.8	544.4	548.0	549.2	555.1
65°	493.2	499.2	494.4	495.6	488.4	486.0	483.7	476.5	475.3	470.6	472.9
67.5°	444.4	449.1	444.4	444.4	438.4	433.6	427.7	415.8	412.2	402.7	400.3
70°	405.0	401.5	403.8	400.3	393.1	387.2	378.8	369.3	357.4	345.5	337.1
72.5°	366.9	366.9	364.5	361.0	357.4	345.5	335.9	325.2	310.9	295.4	283.5
75°	330.0	331.2	331.2	327.6	321.6	310.9	300.2	284.7	269.2	251.4	235.9
77.5°	303.8	303.8	303.8	297.8	291.9	282.3	269.2	252.6	235.9	214.4	196.6
80°	278.8	277.6	277.6	270.4	264.5	253.7	240.6	224.0	206.1	183.5	163.2
82.5°	258.5	257.3	254.9	249.0	240.6	229.9	216.8	198.9	179.9	159.6	134.6
85°	237.1	235.9	233.5	227.5	219.2	209.7	195.4	177.5	158.4	135.8	112.0
87.5°	218.0	216.8	213.2	209.7	200.1	189.4	175.1	158.4	138.2	116.7	92.9
90°	204.9	202.5	200.1	195.4	187.0	175.1	160.8	143.0	122.7	101.3	77.4
92.5°	189.4	188.2	184.7	179.9	172.7	160.8	146.5	129.9	109.6	89.3	66.7
95°	173.9	172.7	170.4	165.6	158.4	147.7	134.6	117.9	98.9	78.6	58.4
97.5°	159.6	159.6	156.1	152.5	144.1	135.8	122.7	107.2	89.3	71.5	52.4
100°	147.7	147.7	144.1	139.4	133.4	125.1	112.0	97.7	81.0	64.3	45.3
102.5°	137.0	135.8	133.4	128.7	122.7	114.4	102.5	89.3	73.9	57.2	40.5
105°	127.5	126.3	123.9	119.1	114.4	104.8	95.3	82.2	66.7	51.2	35.7
107.5°	117.9	116.7	115.6	110.8	104.8	96.5	87.0	73.9	60.8	46.5	32.2
110°	109.6	108.4	106.0	101.3	95.3	88.2	78.6	67.9	54.8	41.7	28.6



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-68SL-LN-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	102.5	101.3	98.9	94.1	89.3	81.0	72.7	60.8	50.0	38.1	25.0
115°	95.3	94.1	91.7	87.0	81.0	73.9	65.5	56.0	44.1	33.4	22.6
117.5°	88.2	87.0	84.6	81.0	75.1	67.9	59.6	50.0	39.3	31.0	20.3
120°	82.2	79.8	77.4	73.9	67.9	61.9	53.6	45.3	35.7	27.4	17.9
122.5°	76.2	73.9	71.5	67.9	61.9	56.0	47.7	40.5	33.4	25.0	16.7
125°	69.1	67.9	65.5	61.9	56.0	50.0	44.1	36.9	29.8	22.6	14.3
127.5°	63.1	61.9	59.6	54.8	50.0	45.3	39.3	33.4	26.2	19.1	13.1
130°	58.4	56.0	53.6	50.0	46.5	41.7	35.7	29.8	23.8	16.7	11.9
132.5°	52.4	50.0	47.7	45.3	41.7	36.9	32.2	26.2	21.4	15.5	10.7
135°	47.7	45.3	42.9	40.5	36.9	33.4	28.6	23.8	19.1	14.3	9.5
137.5°	41.7	40.5	39.3	36.9	33.4	29.8	26.2	20.3	16.7	13.1	8.3
140°	38.1	36.9	35.7	32.2	29.8	26.2	22.6	17.9	14.3	10.7	7.1
142.5°	34.5	33.4	31.0	28.6	26.2	23.8	19.1	16.7	13.1	9.5	7.1
145°	29.8	28.6	27.4	25.0	22.6	19.1	16.7	14.3	11.9	8.3	6.0
147.5°	27.4	26.2	23.8	21.4	19.1	16.7	15.5	13.1	9.5	7.1	4.8
150°	22.6	21.4	20.3	17.9	16.7	15.5	13.1	10.7	8.3	6.0	4.8
152.5°	19.1	17.9	16.7	16.7	14.3	13.1	10.7	9.5	7.1	6.0	3.6
155°	16.7	16.7	15.5	14.3	11.9	10.7	9.5	7.1	6.0	4.8	3.6
157.5°	14.3	13.1	11.9	11.9	10.7	9.5	7.1	6.0	4.8	4.8	3.6
160°	11.9	10.7	10.7	9.5	8.3	7.1	6.0	6.0	4.8	3.6	3.6
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: P#

CATALOG NUMBER: 8SNLED-LD5-68SL-LN-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2165.8	2165.8	2165.8	2165.8	2165.8	2165.8	2165.8	2165.8	2165.8	2165.8	2165.8
2.5°	2169.3	2156.2	2168.2	2183.6	2183.6	2181.3	2178.9	2183.6	2195.6	2190.8	2176.5
5°	2165.8	2152.7	2163.4	2178.9	2178.9	2175.3	2172.9	2176.5	2189.6	2183.6	2170.5
7.5°	2158.6	2146.7	2153.9	2168.2	2168.2	2164.6	2162.2	2167.0	2177.7	2171.7	2157.4
10°	2145.5	2132.4	2140.8	2153.9	2152.7	2150.3	2146.7	2152.7	2162.2	2153.9	2137.2
12.5°	2128.8	2115.7	2122.9	2134.8	2133.6	2128.8	2126.5	2130.0	2138.4	2133.6	2115.7
15°	2106.2	2093.1	2099.1	2111.0	2107.4	2103.8	2099.1	2100.3	2111.0	2102.6	2083.6
17.5°	2078.8	2064.5	2069.3	2080.0	2076.4	2072.9	2066.9	2068.1	2080.0	2068.1	2047.8
20°	2045.5	2030.0	2033.5	2046.6	2040.7	2034.7	2028.8	2028.8	2040.7	2027.6	2004.9
22.5°	2009.7	1994.2	1996.6	2006.1	2001.4	1990.7	1984.7	1988.3	1994.2	1977.5	1953.7
25°	1965.6	1945.4	1949.0	1958.5	1954.9	1940.6	1934.7	1937.0	1934.7	1921.6	1896.5
27.5°	1914.4	1893.0	1895.3	1901.3	1896.5	1883.4	1876.3	1877.5	1872.7	1856.0	1827.4
30°	1850.1	1839.4	1838.2	1841.7	1834.6	1821.5	1813.1	1810.8	1809.6	1785.7	1751.2
32.5°	1784.6	1775.0	1769.1	1773.8	1765.5	1752.4	1738.1	1738.1	1726.2	1703.6	1673.8
35°	1717.8	1702.4	1696.4	1700.0	1690.4	1673.8	1661.9	1655.9	1638.0	1609.4	1577.3
37.5°	1632.1	1621.4	1614.2	1617.8	1607.1	1595.1	1572.5	1566.6	1547.5	1508.2	1467.7
40°	1539.2	1530.8	1523.7	1527.2	1515.3	1497.5	1477.2	1467.7	1446.2	1402.2	1370.0
42.5°	1439.1	1435.5	1427.2	1440.3	1416.4	1398.6	1378.3	1362.8	1341.4	1293.7	1256.8
45°	1333.1	1341.4	1322.3	1325.9	1310.4	1294.9	1273.5	1250.9	1229.4	1184.1	1142.5
47.5°	1221.1	1227.0	1213.9	1216.3	1199.6	1185.3	1166.3	1137.7	1113.9	1074.5	1037.6
50°	1105.5	1103.1	1103.1	1100.8	1087.7	1069.8	1050.7	1024.5	1000.7	964.9	934.0
52.5°	982.8	987.6	990.0	995.9	979.2	968.5	938.7	916.1	898.2	861.3	835.1
55°	864.9	881.6	876.8	879.2	860.1	851.8	827.9	810.1	783.9	762.4	745.7
57.5°	757.7	761.2	763.6	767.2	758.9	742.2	723.1	708.8	688.6	670.7	658.8
60°	654.0	654.0	655.2	661.2	652.8	638.5	624.2	613.5	599.2	588.5	581.4
62.5°	556.3	564.7	565.9	561.1	550.4	543.2	533.7	527.7	518.2	514.6	512.3
65°	465.8	465.8	465.8	468.2	462.2	457.5	451.5	450.3	453.9	449.1	451.5
67.5°	389.6	386.0	383.6	384.8	382.4	380.0	378.8	382.4	389.6	389.6	395.5
70°	324.0	316.9	312.1	312.1	312.1	313.3	316.9	324.0	335.9	340.7	349.0
72.5°	270.4	254.9	247.8	247.8	249.0	253.7	264.5	277.6	288.3	297.8	308.5
75°	219.2	203.7	193.0	191.8	194.2	201.3	216.8	228.7	246.6	259.7	272.8
77.5°	177.5	158.4	145.3	144.1	147.7	158.4	177.5	193.0	213.2	227.5	241.8
80°	141.8	120.3	109.6	102.5	108.4	121.5	143.0	162.0	181.1	200.1	218.0
82.5°	113.2	92.9	76.2	69.1	76.2	94.1	114.4	137.0	156.1	176.3	194.2
85°	89.3	67.9	48.8	41.7	50.0	69.1	91.7	114.4	135.8	156.1	173.9
87.5°	70.3	48.8	29.8	20.3	31.0	51.2	72.7	95.3	117.9	138.2	156.1
90°	54.8	34.5	16.7	2.4	17.9	36.9	58.4	79.8	102.5	122.7	140.6
92.5°	46.5	26.2	9.5	0.0	10.7	27.4	47.7	69.1	89.3	109.6	127.5
95°	39.3	21.4	7.1	0.0	7.1	21.4	39.3	58.4	78.6	98.9	116.7
97.5°	33.4	16.7	4.8	0.0	4.8	16.7	32.2	51.2	69.1	88.2	104.8
100°	28.6	14.3	3.6	0.0	3.6	13.1	27.4	44.1	61.9	79.8	95.3
102.5°	25.0	11.9	2.4	0.0	2.4	10.7	22.6	38.1	53.6	70.3	85.8
105°	21.4	9.5	2.4	0.0	1.2	8.3	19.1	33.4	47.7	63.1	77.4
107.5°	19.1	8.3	2.4	0.0	1.2	7.1	16.7	28.6	42.9	56.0	69.1
110°	16.7	7.1	2.4	0.0	1.2	4.8	14.3	25.0	36.9	50.0	63.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-68SL-LN-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	14.3	6.0	1.2	0.0	0.0	3.6	11.9	21.4	32.2	45.3	56.0
115°	13.1	6.0	1.2	0.0	0.0	2.4	9.5	19.1	28.6	40.5	50.0
117.5°	11.9	4.8	1.2	0.0	1.2	2.4	8.3	16.7	25.0	34.5	45.3
120°	10.7	4.8	1.2	0.0	1.2	1.2	6.0	14.3	21.4	31.0	39.3
122.5°	9.5	4.8	1.2	0.0	1.2	1.2	4.8	11.9	19.1	27.4	34.5
125°	8.3	3.6	2.4	1.2	1.2	1.2	3.6	9.5	16.7	22.6	31.0
127.5°	8.3	3.6	2.4	1.2	1.2	1.2	2.4	8.3	13.1	20.3	27.4
130°	7.1	3.6	2.4	1.2	1.2	1.2	1.2	6.0	11.9	16.7	22.6
132.5°	6.0	3.6	2.4	1.2	1.2	1.2	1.2	3.6	8.3	14.3	19.1
135°	6.0	3.6	2.4	1.2	1.2	1.2	1.2	2.4	6.0	10.7	15.5
137.5°	4.8	2.4	2.4	1.2	1.2	1.2	1.2	1.2	4.8	8.3	11.9
140°	4.8	2.4	2.4	1.2	1.2	1.2	1.2	1.2	3.6	6.0	9.5
142.5°	3.6	2.4	2.4	1.2	1.2	1.2	1.2	1.2	2.4	4.8	7.1
145°	3.6	2.4	2.4	1.2	1.2	1.2	1.2	1.2	1.2	2.4	4.8
147.5°	3.6	3.6	2.4	1.2	1.2	1.2	1.2	1.2	1.2	2.4	3.6
150°	3.6	2.4	2.4	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4
152.5°	3.6	2.4	2.4	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4
155°	3.6	2.4	2.4	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4
157.5°	3.6	2.4	2.4	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4
160°	3.6	2.4	2.4	1.2	2.4	1.2	2.4	2.4	2.4	2.4	2.4
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: P#

CATALOG NUMBER: 8SNLED-LD5-68SL-LN-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2165.8	2165.8	2165.8	2165.8	2165.8	2165.8	2165.8	2165.8	2165.8	2165.8	2165.8
2.5°	2171.7	2149.1	2161.0	2157.4	2162.2	2171.7	2170.5	2168.2	2168.2	2164.6	2159.8
5°	2164.6	2143.1	2153.9	2147.9	2153.9	2162.2	2161.0	2157.4	2159.8	2153.9	2147.9
7.5°	2150.3	2131.2	2140.8	2136.0	2140.8	2149.1	2145.5	2144.3	2146.7	2137.2	2133.6
10°	2133.6	2112.2	2122.9	2116.9	2122.9	2128.8	2126.5	2121.7	2126.5	2116.9	2113.4
12.5°	2107.4	2089.5	2096.7	2094.3	2097.9	2103.8	2099.1	2095.5	2097.9	2089.5	2082.4
15°	2078.8	2060.9	2066.9	2063.3	2065.7	2072.9	2064.5	2063.3	2060.9	2052.6	2050.2
17.5°	2041.9	2025.2	2031.2	2025.2	2028.8	2026.4	2025.2	2019.2	2019.2	2009.7	2002.6
20°	1996.6	1982.3	1978.7	1974.0	1978.7	1974.0	1966.8	1962.1	1960.9	1951.3	1945.4
22.5°	1944.2	1927.5	1929.9	1916.8	1918.0	1910.8	1898.9	1894.2	1889.4	1878.7	1870.3
25°	1881.1	1864.4	1852.5	1844.1	1833.4	1832.2	1816.7	1804.8	1803.6	1790.5	1789.3
27.5°	1809.6	1790.5	1781.0	1760.7	1747.6	1736.9	1723.8	1711.9	1705.9	1691.6	1682.1
30°	1727.4	1705.9	1682.1	1667.8	1647.6	1639.2	1616.6	1602.3	1597.5	1582.0	1574.9
32.5°	1634.5	1611.8	1592.8	1565.4	1542.7	1530.8	1508.2	1493.9	1487.9	1471.2	1461.7
35°	1533.2	1508.2	1485.5	1459.3	1441.5	1421.2	1393.8	1379.5	1366.4	1360.5	1353.3
37.5°	1427.2	1399.8	1373.6	1347.4	1331.9	1308.0	1284.2	1274.7	1259.2	1253.2	1246.1
40°	1317.6	1290.2	1265.2	1240.1	1222.3	1200.8	1179.4	1175.8	1159.1	1153.2	1148.4
42.5°	1209.2	1180.6	1152.0	1134.1	1121.0	1099.6	1085.3	1081.7	1067.4	1063.8	1063.8
45°	1111.5	1075.7	1051.9	1036.4	1025.7	1007.8	995.9	993.5	981.6	979.2	979.2
47.5°	1006.6	973.3	955.4	945.9	936.4	923.3	916.1	916.1	904.2	901.8	900.6
50°	909.0	878.0	864.9	855.3	854.2	844.6	838.7	836.3	836.3	827.9	829.1
52.5°	816.0	800.5	789.8	783.9	776.7	770.8	766.0	766.0	762.4	756.5	758.9
55°	730.3	712.4	713.6	708.8	705.2	701.7	702.9	695.7	694.5	689.8	693.3
57.5°	644.5	644.5	642.1	638.5	632.6	635.0	635.0	635.0	629.0	625.4	629.0
60°	571.8	575.4	569.4	573.0	570.6	571.8	569.4	569.4	565.9	564.7	565.9
62.5°	507.5	513.4	511.1	515.8	513.4	514.6	517.0	512.3	509.9	507.5	509.9
65°	450.3	457.5	456.3	459.8	461.0	462.2	463.4	461.0	458.6	456.3	455.1
67.5°	400.3	407.4	412.2	413.4	414.6	418.1	417.0	414.6	412.2	408.6	407.4
70°	355.0	364.5	370.5	372.9	377.6	375.3	375.3	374.1	371.7	368.1	366.9
72.5°	316.9	327.6	333.6	335.9	340.7	340.7	339.5	338.3	335.9	332.4	331.2
75°	283.5	293.1	301.4	306.2	309.7	309.7	308.5	307.4	305.0	302.6	301.4
77.5°	257.3	265.7	272.8	278.8	281.1	282.3	281.1	278.8	278.8	277.6	276.4
80°	231.1	240.6	247.8	253.7	257.3	257.3	256.1	257.3	254.9	253.7	252.6
82.5°	208.5	219.2	227.5	233.5	235.9	237.1	235.9	237.1	234.7	234.7	234.7
85°	188.2	198.9	208.5	213.2	216.8	218.0	218.0	218.0	216.8	216.8	216.8
87.5°	171.5	182.3	191.8	196.6	200.1	201.3	201.3	202.5	200.1	200.1	200.1
90°	156.1	166.8	176.3	181.1	184.7	187.0	187.0	188.2	187.0	185.8	185.8
92.5°	141.8	153.7	163.2	168.0	171.5	175.1	175.1	176.3	173.9	173.9	173.9
95°	129.9	141.8	150.1	156.1	159.6	162.0	163.2	163.2	162.0	162.0	162.0
97.5°	119.1	129.9	138.2	144.1	147.7	148.9	150.1	151.3	150.1	150.1	150.1
100°	108.4	119.1	127.5	132.2	137.0	138.2	139.4	140.6	140.6	139.4	139.4
102.5°	98.9	109.6	116.7	122.7	126.3	128.7	129.9	129.9	129.9	129.9	129.9
105°	89.3	100.1	107.2	113.2	116.7	119.1	120.3	121.5	121.5	120.3	120.3
107.5°	81.0	90.5	98.9	103.6	108.4	110.8	112.0	112.0	113.2	112.0	112.0
110°	72.7	83.4	90.5	95.3	100.1	102.5	103.6	104.8	104.8	104.8	104.8



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-68SL-LN-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	66.7	75.1	82.2	87.0	91.7	94.1	95.3	96.5	97.7	96.5	96.5
115°	59.6	67.9	75.1	79.8	83.4	85.8	88.2	89.3	89.3	90.5	89.3
117.5°	53.6	60.8	67.9	72.7	76.2	79.8	81.0	82.2	83.4	82.2	82.2
120°	47.7	54.8	60.8	65.5	69.1	72.7	73.9	75.1	76.2	75.1	75.1
122.5°	42.9	48.8	54.8	59.6	63.1	65.5	67.9	67.9	69.1	69.1	69.1
125°	38.1	44.1	48.8	53.6	57.2	59.6	60.8	61.9	61.9	63.1	63.1
127.5°	33.4	38.1	44.1	47.7	51.2	53.6	54.8	56.0	56.0	57.2	57.2
130°	28.6	33.4	38.1	41.7	45.3	47.7	48.8	50.0	51.2	51.2	51.2
132.5°	25.0	29.8	33.4	36.9	39.3	41.7	44.1	45.3	45.3	45.3	45.3
135°	20.3	25.0	28.6	32.2	34.5	36.9	38.1	40.5	40.5	40.5	40.5
137.5°	16.7	21.4	25.0	27.4	29.8	32.2	33.4	34.5	35.7	35.7	35.7
140°	13.1	16.7	20.3	23.8	26.2	27.4	29.8	29.8	31.0	31.0	31.0
142.5°	9.5	13.1	15.5	19.1	21.4	23.8	25.0	26.2	26.2	26.2	26.2
145°	7.1	9.5	11.9	14.3	17.9	19.1	20.3	21.4	22.6	22.6	22.6
147.5°	4.8	7.1	8.3	10.7	13.1	15.5	16.7	17.9	19.1	19.1	19.1
150°	3.6	4.8	7.1	8.3	9.5	11.9	14.3	14.3	15.5	15.5	14.3
152.5°	2.4	3.6	4.8	6.0	7.1	8.3	10.7	10.7	11.9	11.9	11.9
155°	2.4	2.4	2.4	3.6	4.8	6.0	7.1	8.3	8.3	8.3	8.3
157.5°	2.4	2.4	2.4	2.4	2.4	3.6	4.8	6.0	6.0	6.0	6.0
160°	2.4	2.4	1.2	1.2	2.4	2.4	2.4	2.4	3.6	3.6	3.6
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: P#

CATALOG NUMBER: 8SNLED-LD5-68SL-LN-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2165.8	2165.8	2165.8	2165.8	2165.8	2165.8	2165.8	2165.8	2165.8	2165.8	2165.8
2.5°	2163.4	2165.8	2165.8	2163.4	2162.2	2167.0	2161.0	2138.4	2145.5	2147.9	2155.1
5°	2152.7	2155.1	2155.1	2155.1	2152.7	2157.4	2151.5	2128.8	2137.2	2140.8	2145.5
7.5°	2137.2	2138.4	2140.8	2139.6	2137.2	2144.3	2138.4	2115.7	2121.7	2127.7	2133.6
10°	2116.9	2116.9	2118.1	2120.5	2118.1	2124.1	2118.1	2097.9	2103.8	2107.4	2114.5
12.5°	2089.5	2091.9	2093.1	2091.9	2090.7	2095.5	2093.1	2074.0	2076.4	2083.6	2090.7
15°	2052.6	2052.6	2058.6	2056.2	2056.2	2060.9	2063.3	2041.9	2045.5	2056.2	2063.3
17.5°	2007.3	2008.5	2013.3	2015.7	2014.5	2022.8	2024.0	2007.3	2006.1	2019.2	2026.4
20°	1949.0	1951.3	1957.3	1962.1	1962.1	1971.6	1975.2	1964.4	1965.6	1979.9	1982.3
22.5°	1877.5	1877.5	1888.2	1895.3	1901.3	1907.3	1918.0	1908.5	1908.5	1927.5	1938.2
25°	1789.3	1797.7	1801.2	1815.5	1823.9	1840.5	1850.1	1851.3	1852.5	1870.3	1877.5
27.5°	1691.6	1694.0	1704.7	1721.4	1731.0	1746.4	1764.3	1767.9	1773.8	1797.7	1808.4
30°	1580.8	1588.0	1592.8	1616.6	1629.7	1649.9	1672.6	1680.9	1685.7	1717.8	1731.0
32.5°	1467.7	1470.1	1490.3	1503.4	1518.9	1540.3	1566.6	1582.0	1591.6	1624.9	1644.0
35°	1354.5	1359.3	1375.9	1392.6	1408.1	1429.6	1457.0	1478.4	1495.1	1524.9	1549.9
37.5°	1250.9	1262.8	1266.3	1283.0	1294.9	1316.4	1335.4	1366.4	1383.1	1414.1	1446.2
40°	1157.9	1161.5	1163.9	1180.6	1188.9	1209.2	1236.6	1256.8	1279.4	1302.1	1340.2
42.5°	1066.2	1068.6	1072.2	1081.7	1091.2	1105.5	1125.8	1146.0	1169.9	1203.2	1228.2
45°	981.6	984.0	986.4	992.3	1000.7	1013.8	1026.9	1041.2	1065.0	1093.6	1119.8
47.5°	903.0	907.8	907.8	909.0	914.9	925.6	935.2	953.0	966.1	981.6	1011.4
50°	827.9	831.5	832.7	832.7	836.3	843.4	845.8	857.7	869.6	883.9	905.4
52.5°	757.7	757.7	756.5	761.2	761.2	766.0	767.2	774.3	782.7	798.2	807.7
55°	691.0	691.0	694.5	692.1	692.1	694.5	693.3	694.5	701.7	711.2	719.5
57.5°	626.6	625.4	629.0	626.6	625.4	627.8	630.2	625.4	626.6	636.2	636.2
60°	562.3	563.5	567.1	564.7	564.7	564.7	562.3	559.9	557.5	563.5	565.9
62.5°	511.1	507.5	511.1	507.5	509.9	508.7	506.3	501.5	502.7	500.3	498.0
65°	457.5	457.5	458.6	455.1	457.5	457.5	453.9	452.7	445.5	443.2	437.2
67.5°	411.0	411.0	412.2	409.8	409.8	411.0	407.4	403.8	396.7	393.1	384.8
70°	370.5	370.5	370.5	369.3	369.3	369.3	366.9	362.2	355.0	349.0	338.3
72.5°	333.6	334.8	333.6	333.6	337.1	333.6	330.0	325.2	319.3	307.4	297.8
75°	303.8	305.0	303.8	303.8	303.8	302.6	301.4	294.2	287.1	277.6	263.3
77.5°	277.6	277.6	278.8	277.6	277.6	276.4	272.8	266.8	258.5	250.2	233.5
80°	252.6	253.7	254.9	256.1	253.7	252.6	249.0	244.2	233.5	224.0	207.3
82.5°	234.7	233.5	234.7	235.9	233.5	232.3	228.7	222.8	214.4	201.3	184.7
85°	216.8	215.6	215.6	216.8	215.6	213.2	209.7	203.7	195.4	182.3	165.6
87.5°	198.9	200.1	201.3	200.1	198.9	196.6	193.0	187.0	177.5	166.8	148.9
90°	185.8	185.8	185.8	185.8	184.7	182.3	178.7	171.5	163.2	150.1	134.6
92.5°	173.9	173.9	173.9	173.9	172.7	169.2	165.6	159.6	150.1	137.0	122.7
95°	162.0	163.2	162.0	162.0	159.6	158.4	152.5	146.5	138.2	125.1	109.6
97.5°	148.9	150.1	148.9	148.9	147.7	145.3	141.8	134.6	126.3	114.4	100.1
100°	139.4	139.4	138.2	138.2	137.0	134.6	129.9	123.9	115.6	103.6	89.3
102.5°	128.7	129.9	128.7	128.7	126.3	123.9	120.3	114.4	106.0	94.1	81.0
105°	120.3	120.3	119.1	119.1	116.7	114.4	110.8	103.6	96.5	85.8	72.7
107.5°	112.0	112.0	110.8	110.8	108.4	106.0	101.3	95.3	88.2	77.4	65.5
110°	103.6	103.6	103.6	102.5	100.1	96.5	92.9	87.0	79.8	70.3	58.4





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-68SL-LN-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	97.7	96.5	95.3	94.1	91.7	89.3	84.6	78.6	71.5	63.1	52.4
115°	89.3	89.3	88.2	87.0	84.6	81.0	77.4	72.7	65.5	56.0	46.5
117.5°	82.2	82.2	81.0	79.8	77.4	73.9	70.3	65.5	58.4	50.0	41.7
120°	75.1	75.1	73.9	72.7	70.3	66.7	64.3	58.4	52.4	44.1	36.9
122.5°	69.1	67.9	67.9	65.5	64.3	60.8	57.2	52.4	46.5	39.3	32.2
125°	61.9	61.9	60.8	59.6	58.4	54.8	51.2	46.5	40.5	34.5	28.6
127.5°	56.0	56.0	54.8	53.6	52.4	48.8	45.3	41.7	35.7	29.8	23.8
130°	50.0	50.0	48.8	47.7	46.5	42.9	40.5	35.7	31.0	26.2	20.3
132.5°	45.3	45.3	44.1	42.9	40.5	38.1	35.7	31.0	27.4	22.6	17.9
135°	40.5	39.3	39.3	38.1	35.7	33.4	31.0	27.4	22.6	19.1	14.3
137.5°	35.7	34.5	33.4	32.2	31.0	28.6	26.2	23.8	20.3	15.5	11.9
140°	31.0	29.8	29.8	28.6	26.2	25.0	22.6	19.1	16.7	13.1	9.5
142.5°	26.2	26.2	25.0	23.8	22.6	21.4	19.1	16.7	13.1	10.7	7.1
145°	22.6	21.4	21.4	20.3	19.1	16.7	15.5	13.1	10.7	8.3	6.0
147.5°	17.9	17.9	17.9	16.7	15.5	14.3	13.1	10.7	8.3	6.0	3.6
150°	14.3	14.3	14.3	13.1	11.9	10.7	9.5	8.3	6.0	3.6	2.4
152.5°	11.9	11.9	10.7	10.7	9.5	8.3	7.1	6.0	3.6	2.4	2.4
155°	8.3	8.3	8.3	7.1	7.1	6.0	4.8	3.6	2.4	2.4	2.4
157.5°	6.0	6.0	6.0	4.8	4.8	3.6	3.6	2.4	2.4	2.4	2.4
160°	3.6	3.6	3.6	3.6	2.4	2.4	2.4	2.4	2.4	2.4	2.4
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: P#

CATALOG NUMBER: 8SNLED-LD5-68SL-LN-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	2165.8	2165.8	2165.8	2165.8	2165.8	2165.8	2165.8
2.5°	2151.5	2150.3	2159.8	2159.8	2149.1	2165.8	2183.6
5°	2144.3	2143.1	2152.7	2152.7	2143.1	2159.8	2178.9
7.5°	2130.0	2131.2	2140.8	2143.1	2131.2	2146.7	2167.0
10°	2114.5	2113.4	2124.1	2126.5	2116.9	2131.2	2150.3
12.5°	2089.5	2089.5	2100.3	2103.8	2094.3	2111.0	2128.8
15°	2063.3	2063.3	2070.5	2076.4	2068.1	2083.6	2101.4
17.5°	2030.0	2028.8	2035.9	2043.1	2034.7	2051.4	2070.5
20°	1987.1	1987.1	1995.4	2003.8	1997.8	2013.3	2034.7
22.5°	1941.8	1937.0	1951.3	1957.3	1953.7	1969.2	1990.7
25°	1884.6	1883.4	1897.7	1906.1	1901.3	1918.0	1937.0
27.5°	1822.7	1821.5	1835.8	1846.5	1844.1	1859.6	1881.1
30°	1747.6	1753.6	1766.7	1784.6	1778.6	1795.3	1817.9
32.5°	1669.0	1675.0	1690.4	1709.5	1710.7	1723.8	1746.4
35°	1574.9	1590.4	1601.1	1626.1	1630.9	1644.0	1667.8
37.5°	1476.0	1493.9	1516.5	1535.6	1545.1	1555.8	1583.2
40°	1365.2	1391.4	1416.4	1439.1	1451.0	1461.7	1487.9
42.5°	1265.2	1285.4	1309.2	1331.9	1353.3	1362.8	1390.2
45°	1152.0	1175.8	1197.3	1224.7	1246.1	1256.8	1284.2
47.5°	1041.2	1065.0	1093.6	1112.7	1135.3	1146.0	1172.2
50°	935.2	956.6	980.4	1003.1	1022.1	1031.7	1054.3
52.5°	830.3	853.0	875.6	889.9	910.1	917.3	936.4
55°	737.4	752.9	773.1	781.5	801.7	806.5	819.6
57.5°	648.1	658.8	665.9	680.2	694.5	705.2	720.7
60°	567.1	571.8	576.6	584.9	596.8	600.4	606.4
62.5°	494.4	493.2	502.7	505.1	506.3	518.2	512.3
65°	430.1	431.2	422.9	419.3	424.1	427.7	425.3
67.5°	376.4	369.3	362.2	353.8	346.7	350.2	346.7
70°	324.0	318.1	306.2	294.2	289.5	282.3	278.8
72.5°	282.3	268.0	256.1	240.6	232.3	224.0	218.0
75°	250.2	229.9	213.2	196.6	184.7	172.7	170.4
77.5°	216.8	197.8	178.7	160.8	143.0	129.9	125.1
80°	190.6	172.7	150.1	128.7	109.6	92.9	87.0
82.5°	166.8	147.7	125.1	102.5	81.0	63.1	56.0
85°	146.5	126.3	103.6	81.0	59.6	40.5	31.0
87.5°	131.0	108.4	85.8	64.3	41.7	22.6	11.9
90°	116.7	95.3	73.9	51.2	29.8	11.9	0.0
92.5°	103.6	83.4	61.9	41.7	22.6	7.1	1.2
95°	91.7	73.9	52.4	33.4	16.7	4.8	1.2
97.5°	82.2	64.3	45.3	27.4	13.1	3.6	1.2
100°	73.9	56.0	39.3	22.6	10.7	2.4	1.2
102.5°	65.5	50.0	33.4	19.1	8.3	1.2	1.2
105°	58.4	44.1	28.6	16.7	7.1	1.2	1.2
107.5°	52.4	39.3	25.0	14.3	4.8	1.2	1.2
110°	46.5	33.4	21.4	11.9	3.6	1.2	1.2



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-68SL-LN-UNV-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	41.7	29.8	19.1	9.5	2.4	1.2	1.2
115°	36.9	26.2	16.7	8.3	2.4	1.2	1.2
117.5°	32.2	22.6	14.3	6.0	1.2	1.2	1.2
120°	28.6	20.3	11.9	4.8	1.2	1.2	1.2
122.5°	25.0	16.7	9.5	3.6	1.2	1.2	1.2
125°	21.4	14.3	8.3	2.4	1.2	1.2	1.2
127.5°	17.9	11.9	6.0	2.4	1.2	1.2	1.2
130°	15.5	9.5	4.8	1.2	1.2	1.2	1.2
132.5°	13.1	7.1	3.6	1.2	1.2	1.2	1.2
135°	10.7	6.0	2.4	1.2	1.2	1.2	1.2
137.5°	8.3	4.8	2.4	1.2	1.2	1.2	1.2
140°	6.0	3.6	1.2	1.2	1.2	1.2	1.2
142.5°	4.8	2.4	1.2	1.2	1.2	1.2	1.2
145°	3.6	2.4	1.2	1.2	1.2	1.2	1.2
147.5°	2.4	2.4	2.4	2.4	1.2	1.2	1.2
150°	2.4	2.4	1.2	1.2	2.4	1.2	1.2
152.5°	2.4	1.2	1.2	1.2	2.4	1.2	1.2
155°	2.4	2.4	2.4	2.4	2.4	2.4	1.2
157.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4
160°	2.4	2.4	2.4	2.4	2.4	2.4	2.4
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)