

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-L940-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-L940-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

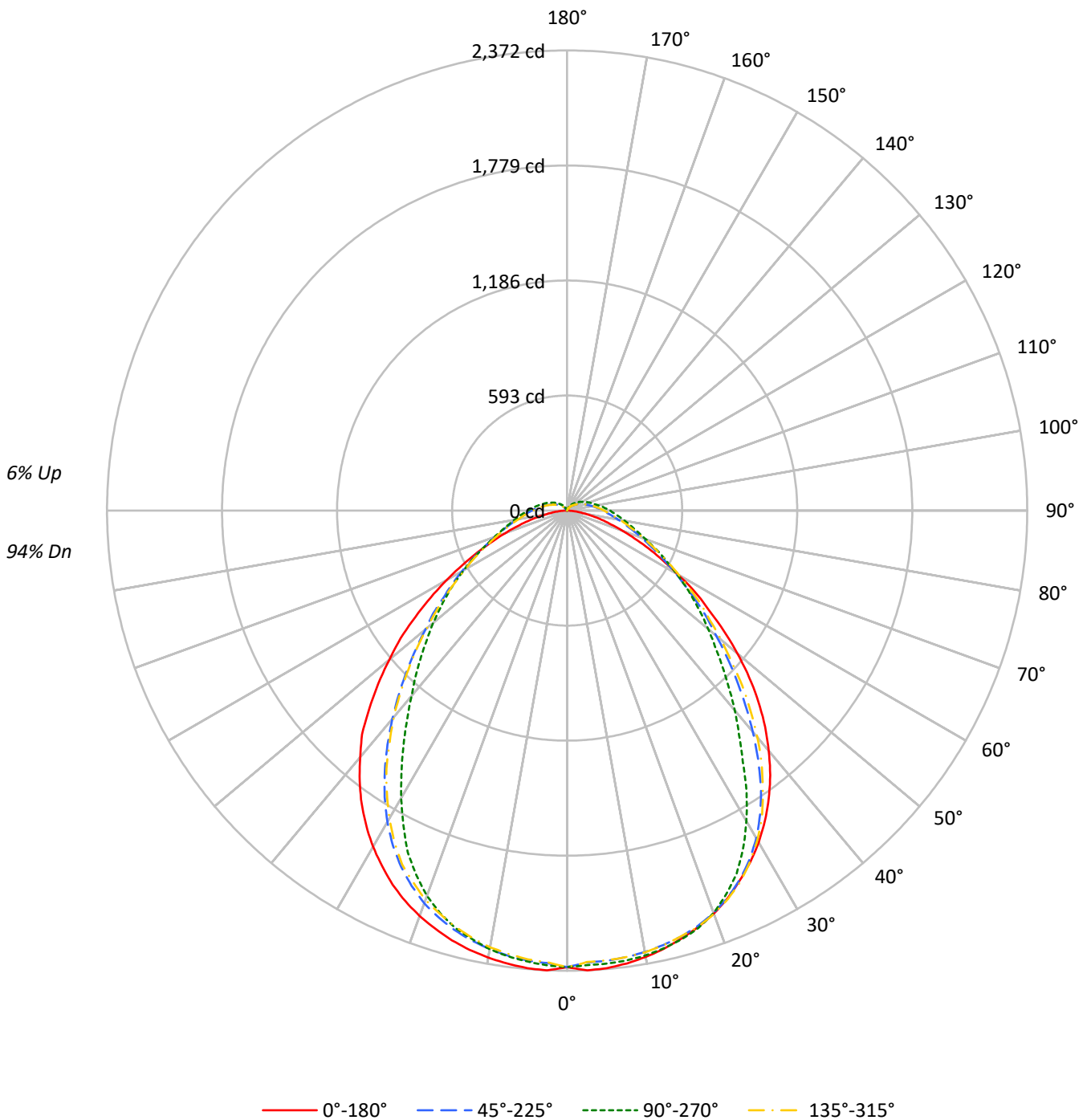
Lumens per Lamp: N/A
Luminaire Lumens: 5955.0 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9508	9508	9508	9508
5°	9589	9205	9589	9164
10°	9559	8960	9575	8836
15°	9511	8693	9554	8466
20°	9452	8348	9507	7996
25°	9315	7837	9418	7376
30°	9133	7087	9252	6561
35°	8841	6168	9012	5743
40°	8416	5394	8639	5005
45°	7850	4689	8105	4420
50°	7069	4120	7380	3912
55°	6136	3638	6582	3455
60°	5183	3194	5652	3011
65°	4275	2825	4706	2619
70°	3431	2507	3841	2318
75°	2730	2314	3074	2129
80°	2020	2233	2379	2041
85°	1326	2246	1782	2064



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.1	3.7
10°-20°	639.7	10.7
20°-30°	948.0	15.9
30°-40°	1053.2	17.7
40°-50°	954.7	16.0
50°-60°	739.8	12.4
60°-70°	502.4	8.4
70°-80°	319.6	5.4
80°-90°	204.3	3.4
90°-100°	137.8	2.3
100°-110°	94.4	1.6
110°-120°	62.9	1.1
120°-130°	39.2	0.7
130°-140°	21.7	0.4
140°-150°	10.2	0.2
150°-160°	3.7	0.1
160°-170°	0.2	0.0
170°-180°	0.0	0.0
0°-30°	1810.8	30.4
0°-40°	2864.0	48.1
0°-60°	4558.6	76.6
0°-90°	5585.0	93.8
90°-120°	295.1	5.0
90°-150°	366.1	6.1
90°-180°	370.0	6.2
0°-180°	5955.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2353	2353	2353	2353	2353	
5°	2367	2344	2367	2334	2367	225
15°	2283	2287	2294	2228	2283	644
25°	2105	2066	2128	1944	2105	969
35°	1812	1579	1847	1470	1812	1130
45°	1395	1129	1441	1064	1395	1072
55°	890	793	955	753	890	802
65°	462	533	509	494	462	463
75°	185	356	208	328	185	199
85°	34	256	45	236	34	40
90°	0	221	3	202	0	2
95°	1	189	0	176	1	1
105°	1	138	0	131	1	1
115°	1	105	0	97	1	1
125°	1	78	1	69	1	1
135°	1	54	1	44	1	1
145°	1	35	1	25	1	1
155°	1	19	1	9	1	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-68SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2353.1	2353.1	2353.1	2353.1	2353.1	2353.1	2353.1	2353.1	2353.1	2353.1	2353.1
2.5°	2372.5	2369.9	2367.3	2363.4	2367.3	2377.7	2371.2	2357.0	2354.4	2331.1	2341.4
5°	2367.3	2363.4	2360.8	2357.0	2362.1	2375.1	2368.6	2355.7	2351.8	2329.8	2341.4
7.5°	2354.4	2351.8	2347.9	2347.9	2353.1	2366.0	2360.8	2346.6	2344.0	2322.0	2334.9
10°	2336.2	2334.9	2332.4	2332.4	2337.5	2353.1	2346.6	2333.7	2331.1	2310.4	2324.6
12.5°	2312.9	2314.2	2310.4	2310.4	2318.1	2333.7	2328.5	2314.2	2311.7	2293.5	2307.8
15°	2283.2	2284.5	2281.9	2283.2	2290.9	2309.1	2302.6	2289.6	2287.1	2272.8	2284.5
17.5°	2249.5	2250.8	2250.8	2249.5	2258.6	2276.7	2271.5	2259.9	2256.0	2244.3	2258.6
20°	2210.7	2210.7	2210.7	2210.7	2221.0	2239.2	2232.7	2223.6	2215.9	2206.8	2218.5
22.5°	2162.8	2161.5	2162.8	2166.7	2177.0	2191.3	2187.4	2177.0	2165.4	2160.2	2169.3
25°	2104.6	2108.4	2109.7	2113.6	2126.6	2138.2	2134.3	2124.0	2105.9	2102.0	2104.6
27.5°	2043.7	2046.3	2050.2	2048.9	2067.0	2078.7	2070.9	2061.8	2036.0	2032.1	2029.5
30°	1975.1	1979.0	1981.6	1980.3	1994.5	2007.5	1999.7	1988.1	1953.1	1950.5	1929.8
32.5°	1897.5	1901.4	1903.9	1903.9	1924.7	1929.8	1915.6	1898.8	1861.2	1852.2	1834.0
35°	1812.0	1815.9	1817.2	1817.2	1837.9	1836.6	1818.5	1795.2	1753.8	1742.2	1711.1
37.5°	1720.1	1722.7	1724.0	1731.8	1740.9	1733.1	1709.8	1680.0	1649.0	1616.6	1583.0
40°	1616.6	1620.5	1623.1	1628.3	1637.3	1628.3	1594.6	1558.4	1524.7	1488.5	1454.8
42.5°	1510.5	1522.1	1519.5	1518.2	1523.4	1498.8	1472.9	1431.5	1397.9	1360.3	1326.7
45°	1395.3	1394.0	1400.5	1403.0	1401.7	1381.0	1344.8	1307.3	1273.6	1234.8	1206.3
47.5°	1273.6	1272.3	1277.5	1280.1	1272.3	1250.3	1221.8	1179.1	1150.6	1117.0	1095.0
50°	1145.5	1145.5	1153.2	1145.5	1141.6	1119.6	1096.3	1053.6	1031.6	1001.8	988.9
52.5°	1017.3	1029.0	1021.2	1018.6	1014.7	992.7	974.6	939.7	921.6	908.6	893.1
55°	890.5	903.4	898.3	894.4	893.1	875.0	858.1	832.2	820.6	811.5	802.5
57.5°	783.1	781.8	779.2	775.3	776.6	762.4	745.5	731.3	726.1	722.2	724.8
60°	658.8	669.2	665.3	666.6	667.9	665.3	651.0	642.0	643.3	644.6	648.5
62.5°	556.6	565.6	572.1	566.9	569.5	573.4	565.6	563.0	568.2	573.4	578.6
65°	462.1	471.1	477.6	476.3	484.1	491.8	490.5	493.1	504.8	511.3	517.7
67.5°	376.6	385.7	394.8	396.1	407.7	419.4	424.5	433.6	446.5	455.6	463.4
70°	302.9	310.6	321.0	327.5	343.0	358.5	367.6	385.7	393.5	406.4	411.6
72.5°	236.9	243.3	257.6	273.1	286.0	305.5	323.6	339.1	350.8	365.0	371.5
75°	185.1	187.7	203.2	221.3	239.4	261.5	280.9	297.7	313.2	327.5	337.8
77.5°	135.9	139.8	154.0	178.6	199.3	222.6	244.6	262.7	279.6	293.8	308.0
80°	94.5	102.3	117.8	142.4	165.7	191.6	212.3	233.0	251.1	265.3	279.6
82.5°	60.8	67.3	89.3	113.9	138.5	164.4	186.4	207.1	226.5	242.0	255.0
85°	33.7	42.7	64.7	90.6	115.2	141.1	164.4	185.1	204.5	218.7	231.7
87.5°	12.9	25.9	46.6	71.2	95.8	120.4	145.0	164.4	183.8	199.3	211.0
90°	0.0	15.5	34.9	59.5	84.1	108.7	132.0	152.7	170.8	185.1	198.0
92.5°	1.3	10.4	27.2	47.9	71.2	94.5	116.5	137.2	155.3	169.6	181.2
95°	1.3	7.8	22.0	41.4	62.1	84.1	104.8	124.3	141.1	155.3	167.0
97.5°	1.3	5.2	18.1	36.2	54.4	76.4	95.8	113.9	129.4	143.7	152.7
100°	1.3	5.2	15.5	31.1	49.2	68.6	86.7	104.8	119.1	130.7	141.1
102.5°	1.3	3.9	12.9	27.2	44.0	60.8	79.0	95.8	108.7	120.4	130.7
105°	1.3	3.9	11.6	23.3	38.8	55.7	71.2	86.7	101.0	111.3	120.4
107.5°	1.3	2.6	10.4	19.4	33.7	50.5	66.0	79.0	91.9	102.3	111.3
110°	1.3	2.6	9.1	18.1	29.8	45.3	59.5	72.5	84.1	94.5	102.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.3	2.6	7.8	16.8	27.2	40.1	54.4	66.0	77.7	86.7	94.5
115°	1.3	2.6	7.8	15.5	24.6	34.9	47.9	60.8	69.9	80.2	86.7
117.5°	1.3	2.6	6.5	12.9	23.3	32.4	44.0	54.4	64.7	73.8	80.2
120°	1.3	2.6	6.5	11.6	20.7	29.8	38.8	49.2	59.5	66.0	72.5
122.5°	1.3	2.6	5.2	11.6	18.1	27.2	34.9	44.0	53.1	60.8	67.3
125°	1.3	2.6	5.2	10.4	16.8	24.6	32.4	38.8	47.9	54.4	60.8
127.5°	1.3	2.6	5.2	9.1	15.5	22.0	29.8	36.2	42.7	49.2	54.4
130°	1.3	2.6	3.9	7.8	14.2	19.4	25.9	33.7	38.8	44.0	49.2
132.5°	1.3	2.6	3.9	7.8	11.6	16.8	23.3	29.8	34.9	40.1	44.0
135°	1.3	2.6	3.9	6.5	10.4	15.5	19.4	25.9	31.1	36.2	40.1
137.5°	1.3	2.6	3.9	6.5	9.1	12.9	16.8	22.0	27.2	31.1	36.2
140°	1.3	2.6	3.9	5.2	7.8	11.6	15.5	18.1	23.3	27.2	31.1
142.5°	1.3	2.6	3.9	5.2	7.8	10.4	12.9	15.5	19.4	23.3	27.2
145°	1.3	2.6	3.9	5.2	6.5	9.1	11.6	14.2	15.5	19.4	22.0
147.5°	1.3	2.6	3.9	5.2	5.2	7.8	10.4	11.6	14.2	15.5	18.1
150°	1.3	2.6	3.9	3.9	5.2	6.5	9.1	10.4	11.6	14.2	15.5
152.5°	1.3	2.6	3.9	3.9	5.2	6.5	7.8	9.1	10.4	11.6	12.9
155°	1.3	2.6	3.9	3.9	3.9	5.2	6.5	7.8	9.1	10.4	11.6
157.5°	2.6	2.6	2.6	3.9	3.9	5.2	5.2	6.5	7.8	7.8	9.1
160°	2.6	2.6	2.6	3.9	3.9	3.9	5.2	5.2	6.5	6.5	7.8
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2353.1	2353.1	2353.1	2353.1	2353.1	2353.1	2353.1	2353.1	2353.1	2353.1	2353.1
2.5°	2338.8	2342.7	2354.4	2354.4	2351.8	2349.2	2349.2	2345.3	2347.9	2353.1	2350.5
5°	2338.8	2342.7	2354.4	2354.4	2351.8	2349.2	2347.9	2344.0	2347.9	2353.1	2350.5
7.5°	2331.1	2336.2	2347.9	2347.9	2345.3	2344.0	2341.4	2338.8	2342.7	2347.9	2345.3
10°	2320.7	2325.9	2337.5	2337.5	2334.9	2334.9	2331.1	2328.5	2333.7	2337.5	2336.2
12.5°	2305.2	2311.7	2322.0	2320.7	2318.1	2319.4	2315.5	2310.4	2315.5	2319.4	2320.7
15°	2283.2	2290.9	2301.3	2298.7	2294.8	2297.4	2290.9	2287.1	2290.9	2298.7	2297.4
17.5°	2254.7	2259.9	2267.6	2267.6	2263.8	2261.2	2258.6	2254.7	2257.3	2262.5	2263.8
20°	2214.6	2221.0	2224.9	2221.0	2219.8	2215.9	2210.7	2206.8	2212.0	2219.8	2221.0
22.5°	2161.5	2162.8	2171.9	2162.8	2156.3	2155.0	2149.9	2142.1	2149.9	2156.3	2157.6
25°	2095.5	2102.0	2098.1	2082.6	2082.6	2072.2	2069.6	2065.7	2067.0	2078.7	2083.9
27.5°	2011.4	2014.0	2003.6	1990.7	1979.0	1972.5	1963.5	1964.8	1964.8	1980.3	1985.5
30°	1919.5	1905.2	1896.2	1875.5	1866.4	1850.9	1848.3	1848.3	1845.7	1853.5	1876.8
32.5°	1809.5	1790.0	1775.8	1756.4	1740.9	1725.3	1717.6	1721.4	1720.1	1739.6	1747.3
35°	1689.1	1677.4	1647.7	1623.1	1614.0	1590.7	1590.7	1579.1	1586.8	1608.8	1617.9
37.5°	1562.2	1544.1	1519.5	1492.3	1485.9	1467.8	1461.3	1454.8	1471.6	1475.5	1484.6
40°	1432.8	1416.0	1392.7	1366.8	1366.8	1344.8	1344.8	1344.8	1346.1	1353.9	1370.7
42.5°	1309.8	1291.7	1271.0	1252.9	1250.3	1233.5	1233.5	1232.2	1234.8	1241.3	1256.8
45°	1190.8	1176.5	1154.5	1145.5	1146.8	1128.6	1132.5	1128.6	1133.8	1140.3	1145.5
47.5°	1080.8	1071.7	1062.6	1049.7	1045.8	1044.5	1038.0	1032.9	1041.9	1041.9	1049.7
50°	978.5	973.3	968.1	960.4	961.7	956.5	948.7	948.7	955.2	956.5	961.7
52.5°	889.2	882.7	876.3	877.5	878.8	876.3	872.4	868.5	872.4	875.0	881.4
55°	799.9	794.7	801.2	798.6	801.2	798.6	796.0	793.4	799.9	796.0	802.5
57.5°	719.6	724.8	727.4	722.2	726.1	723.5	724.8	720.9	726.1	728.7	727.4
60°	645.9	653.6	649.7	651.0	656.2	653.6	648.5	652.3	657.5	658.8	657.5
62.5°	578.6	587.6	591.5	588.9	590.2	587.6	591.5	586.3	592.8	595.4	591.5
65°	517.7	528.1	530.7	530.7	530.7	528.1	532.0	533.3	535.8	535.8	533.3
67.5°	466.0	475.0	477.6	480.2	477.6	475.0	475.0	476.3	481.5	484.1	481.5
70°	419.4	428.4	429.7	429.7	431.0	433.6	428.4	431.0	434.9	436.2	434.9
72.5°	379.2	388.3	390.9	389.6	390.9	392.2	392.2	389.6	393.5	396.1	396.1
75°	346.9	352.1	354.6	354.6	355.9	357.2	357.2	355.9	358.5	359.8	361.1
77.5°	317.1	321.0	324.9	324.9	326.2	324.9	327.5	327.5	328.8	330.1	331.3
80°	287.3	292.5	295.1	296.4	299.0	300.3	300.3	300.3	301.6	302.9	302.9
82.5°	264.0	267.9	271.8	275.7	275.7	277.0	277.0	277.0	278.3	278.3	279.6
85°	240.7	245.9	249.8	252.4	253.7	255.0	255.0	256.3	256.3	256.3	257.6
87.5°	220.0	226.5	229.1	231.7	233.0	235.6	235.6	235.6	236.9	236.9	236.9
90°	205.8	212.3	214.9	217.4	218.7	220.0	220.0	221.3	221.3	222.6	222.6
92.5°	189.0	195.4	200.6	200.6	201.9	204.5	203.2	203.2	204.5	205.8	205.8
95°	176.0	181.2	185.1	186.4	187.7	187.7	187.7	189.0	187.7	189.0	189.0
97.5°	160.5	165.7	169.6	172.1	173.4	173.4	173.4	174.7	173.4	174.7	174.7
100°	147.6	152.7	156.6	157.9	160.5	160.5	160.5	160.5	160.5	160.5	161.8
102.5°	137.2	142.4	145.0	146.3	147.6	148.8	148.8	148.8	148.8	150.1	150.1
105°	126.8	132.0	134.6	135.9	137.2	138.5	138.5	138.5	139.8	139.8	138.5
107.5°	117.8	121.7	124.3	126.8	128.1	128.1	129.4	129.4	129.4	129.4	129.4
110°	108.7	112.6	116.5	119.1	119.1	120.4	120.4	121.7	121.7	120.4	121.7



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-68SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	99.7	104.8	107.4	110.0	111.3	112.6	112.6	112.6	112.6	112.6	112.6
115°	91.9	97.1	99.7	102.3	103.5	104.8	104.8	104.8	104.8	104.8	104.8
117.5°	85.4	90.6	93.2	94.5	95.8	97.1	98.4	98.4	98.4	98.4	97.1
120°	79.0	82.8	85.4	88.0	89.3	90.6	90.6	90.6	90.6	90.6	90.6
122.5°	72.5	76.4	79.0	81.5	82.8	84.1	84.1	84.1	84.1	84.1	84.1
125°	66.0	69.9	72.5	75.1	76.4	77.7	77.7	77.7	77.7	77.7	77.7
127.5°	59.5	63.4	67.3	68.6	69.9	71.2	71.2	71.2	72.5	71.2	71.2
130°	53.1	56.9	60.8	62.1	63.4	64.7	66.0	66.0	66.0	66.0	64.7
132.5°	47.9	51.8	54.4	55.7	58.2	58.2	59.5	59.5	59.5	59.5	58.2
135°	44.0	46.6	49.2	50.5	53.1	53.1	53.1	54.4	54.4	53.1	51.8
137.5°	38.8	41.4	44.0	45.3	46.6	47.9	47.9	49.2	47.9	47.9	47.9
140°	36.2	37.5	40.1	41.4	42.7	42.7	42.7	44.0	44.0	42.7	42.7
142.5°	31.1	33.7	36.2	37.5	38.8	38.8	38.8	38.8	38.8	38.8	38.8
145°	25.9	29.8	31.1	33.7	33.7	34.9	34.9	34.9	34.9	34.9	33.7
147.5°	22.0	24.6	28.5	29.8	29.8	31.1	31.1	31.1	31.1	31.1	29.8
150°	16.8	19.4	23.3	25.9	25.9	27.2	27.2	27.2	27.2	25.9	25.9
152.5°	14.2	16.8	18.1	20.7	22.0	22.0	22.0	23.3	22.0	22.0	22.0
155°	12.9	14.2	15.5	16.8	18.1	19.4	19.4	19.4	19.4	18.1	18.1
157.5°	10.4	11.6	12.9	14.2	15.5	16.8	16.8	16.8	16.8	16.8	15.5
160°	7.8	9.1	10.4	10.4	11.6	12.9	14.2	12.9	12.9	12.9	12.9
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-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2353.1	2353.1	2353.1	2353.1	2353.1	2353.1	2353.1	2353.1	2353.1	2353.1	2353.1
2.5°	2347.9	2346.6	2350.5	2344.0	2324.6	2329.8	2327.2	2338.8	2341.4	2344.0	2355.7
5°	2347.9	2346.6	2349.2	2344.0	2323.3	2327.2	2324.6	2336.2	2338.8	2340.1	2351.8
7.5°	2342.7	2341.4	2345.3	2338.8	2316.8	2322.0	2318.1	2329.8	2331.1	2332.4	2342.7
10°	2332.4	2331.1	2333.7	2328.5	2306.5	2311.7	2306.5	2318.1	2318.1	2320.7	2328.5
12.5°	2316.8	2314.2	2319.4	2312.9	2288.4	2294.8	2292.2	2300.0	2301.3	2302.6	2310.4
15°	2294.8	2292.2	2296.1	2292.2	2270.2	2271.5	2267.6	2279.3	2280.6	2278.0	2285.8
17.5°	2262.5	2259.9	2267.6	2265.1	2243.1	2248.2	2246.9	2249.5	2253.4	2246.9	2257.3
20°	2222.3	2224.9	2227.5	2228.8	2212.0	2212.0	2210.7	2215.9	2219.8	2214.6	2222.3
22.5°	2162.8	2169.3	2177.0	2179.6	2168.0	2166.7	2174.5	2171.9	2175.7	2173.2	2178.3
25°	2087.7	2100.7	2108.4	2116.2	2109.7	2112.3	2124.0	2126.6	2126.6	2125.3	2130.4
27.5°	1994.5	2011.4	2025.6	2042.4	2036.0	2041.1	2060.6	2063.1	2068.3	2063.1	2073.5
30°	1883.2	1898.8	1925.9	1950.5	1953.1	1960.9	1988.1	1990.7	2004.9	1999.7	2003.6
32.5°	1771.9	1779.7	1810.8	1835.3	1850.9	1870.3	1900.1	1905.2	1924.7	1928.5	1928.5
35°	1632.1	1654.1	1682.6	1717.6	1737.0	1757.7	1797.8	1805.6	1834.0	1843.1	1853.5
37.5°	1514.4	1535.1	1553.2	1589.4	1624.4	1647.7	1680.0	1699.4	1729.2	1746.0	1759.0
40°	1388.8	1405.6	1425.0	1461.3	1491.1	1526.0	1558.4	1581.7	1619.2	1638.6	1655.4
42.5°	1269.7	1282.7	1303.4	1329.3	1360.3	1399.2	1430.2	1457.4	1497.5	1524.7	1544.1
45°	1163.6	1171.4	1189.5	1208.9	1236.1	1276.2	1306.0	1340.9	1373.3	1401.7	1425.0
47.5°	1063.9	1074.3	1083.3	1096.3	1120.9	1145.5	1180.4	1214.1	1246.4	1277.5	1300.8
50°	972.0	972.0	986.3	995.3	1012.2	1034.2	1061.3	1084.6	1124.8	1146.8	1176.5
52.5°	882.7	887.9	895.7	900.8	913.8	928.0	950.0	969.4	1003.1	1023.8	1052.3
55°	803.8	808.9	812.8	815.4	823.2	840.0	847.8	863.3	886.6	903.4	928.0
57.5°	728.7	731.3	735.2	736.5	737.8	748.1	754.6	758.5	781.8	798.6	819.3
60°	660.1	660.1	664.0	662.7	661.4	666.6	665.3	669.2	683.4	693.8	702.8
62.5°	595.4	595.4	596.7	594.1	592.8	592.8	587.6	591.5	595.4	596.7	603.2
65°	535.8	542.3	537.1	538.4	530.7	528.1	525.5	517.7	516.4	511.3	513.8
67.5°	482.8	488.0	482.8	482.8	476.3	471.1	464.7	451.7	447.8	437.5	434.9
70°	440.1	436.2	438.8	434.9	427.1	420.7	411.6	401.2	388.3	375.4	366.3
72.5°	398.6	398.6	396.1	392.2	388.3	375.4	365.0	353.3	337.8	321.0	308.0
75°	358.5	359.8	359.8	355.9	349.5	337.8	326.2	309.3	292.5	273.1	256.3
77.5°	330.1	330.1	330.1	323.6	317.1	306.8	292.5	274.4	256.3	233.0	213.6
80°	302.9	301.6	301.6	293.8	287.3	275.7	261.5	243.3	223.9	199.3	177.3
82.5°	280.9	279.6	277.0	270.5	261.5	249.8	235.6	216.2	195.4	173.4	146.3
85°	257.6	256.3	253.7	247.2	238.2	227.8	212.3	192.9	172.1	147.6	121.7
87.5°	236.9	235.6	231.7	227.8	217.4	205.8	190.3	172.1	150.1	126.8	101.0
90°	222.6	220.0	217.4	212.3	203.2	190.3	174.7	155.3	133.3	110.0	84.1
92.5°	205.8	204.5	200.6	195.4	187.7	174.7	159.2	141.1	119.1	97.1	72.5
95°	189.0	187.7	185.1	179.9	172.1	160.5	146.3	128.1	107.4	85.4	63.4
97.5°	173.4	173.4	169.6	165.7	156.6	147.6	133.3	116.5	97.1	77.7	56.9
100°	160.5	160.5	156.6	151.4	145.0	135.9	121.7	106.1	88.0	69.9	49.2
102.5°	148.8	147.6	145.0	139.8	133.3	124.3	111.3	97.1	80.2	62.1	44.0
105°	138.5	137.2	134.6	129.4	124.3	113.9	103.5	89.3	72.5	55.7	38.8
107.5°	128.1	126.8	125.5	120.4	113.9	104.8	94.5	80.2	66.0	50.5	34.9
110°	119.1	117.8	115.2	110.0	103.5	95.8	85.4	73.8	59.5	45.3	31.1



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-68SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	111.3	110.0	107.4	102.3	97.1	88.0	79.0	66.0	54.4	41.4	27.2
115°	103.5	102.3	99.7	94.5	88.0	80.2	71.2	60.8	47.9	36.2	24.6
117.5°	95.8	94.5	91.9	88.0	81.5	73.8	64.7	54.4	42.7	33.7	22.0
120°	89.3	86.7	84.1	80.2	73.8	67.3	58.2	49.2	38.8	29.8	19.4
122.5°	82.8	80.2	77.7	73.8	67.3	60.8	51.8	44.0	36.2	27.2	18.1
125°	75.1	73.8	71.2	67.3	60.8	54.4	47.9	40.1	32.4	24.6	15.5
127.5°	68.6	67.3	64.7	59.5	54.4	49.2	42.7	36.2	28.5	20.7	14.2
130°	63.4	60.8	58.2	54.4	50.5	45.3	38.8	32.4	25.9	18.1	12.9
132.5°	56.9	54.4	51.8	49.2	45.3	40.1	34.9	28.5	23.3	16.8	11.6
135°	51.8	49.2	46.6	44.0	40.1	36.2	31.1	25.9	20.7	15.5	10.4
137.5°	45.3	44.0	42.7	40.1	36.2	32.4	28.5	22.0	18.1	14.2	9.1
140°	41.4	40.1	38.8	34.9	32.4	28.5	24.6	19.4	15.5	11.6	7.8
142.5°	37.5	36.2	33.7	31.1	28.5	25.9	20.7	18.1	14.2	10.4	7.8
145°	32.4	31.1	29.8	27.2	24.6	20.7	18.1	15.5	12.9	9.1	6.5
147.5°	29.8	28.5	25.9	23.3	20.7	18.1	16.8	14.2	10.4	7.8	5.2
150°	24.6	23.3	22.0	19.4	18.1	16.8	14.2	11.6	9.1	6.5	5.2
152.5°	20.7	19.4	18.1	18.1	15.5	14.2	11.6	10.4	7.8	6.5	3.9
155°	18.1	18.1	16.8	15.5	12.9	11.6	10.4	7.8	6.5	5.2	3.9
157.5°	15.5	14.2	12.9	12.9	11.6	10.4	7.8	6.5	5.2	5.2	3.9
160°	12.9	11.6	11.6	10.4	9.1	7.8	6.5	6.5	5.2	3.9	3.9
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-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2353.1	2353.1	2353.1	2353.1	2353.1	2353.1	2353.1	2353.1	2353.1	2353.1	2353.1
2.5°	2357.0	2342.7	2355.7	2372.5	2372.5	2369.9	2367.3	2372.5	2385.4	2380.3	2364.7
5°	2353.1	2338.8	2350.5	2367.3	2367.3	2363.4	2360.8	2364.7	2379.0	2372.5	2358.2
7.5°	2345.3	2332.4	2340.1	2355.7	2355.7	2351.8	2349.2	2354.4	2366.0	2359.5	2344.0
10°	2331.1	2316.8	2325.9	2340.1	2338.8	2336.2	2332.4	2338.8	2349.2	2340.1	2322.0
12.5°	2312.9	2298.7	2306.5	2319.4	2318.1	2312.9	2310.4	2314.2	2323.3	2318.1	2298.7
15°	2288.4	2274.1	2280.6	2293.5	2289.6	2285.8	2280.6	2281.9	2293.5	2284.5	2263.8
17.5°	2258.6	2243.1	2248.2	2259.9	2256.0	2252.1	2245.6	2246.9	2259.9	2246.9	2224.9
20°	2222.3	2205.5	2209.4	2223.6	2217.2	2210.7	2204.2	2204.2	2217.2	2202.9	2178.3
22.5°	2183.5	2166.7	2169.3	2179.6	2174.5	2162.8	2156.3	2160.2	2166.7	2148.6	2122.7
25°	2135.6	2113.6	2117.5	2127.9	2124.0	2108.4	2102.0	2104.6	2102.0	2087.7	2060.6
27.5°	2080.0	2056.7	2059.3	2065.7	2060.6	2046.3	2038.6	2039.8	2034.7	2016.5	1985.5
30°	2010.1	1998.4	1997.1	2001.0	1993.2	1979.0	1970.0	1967.4	1966.1	1940.2	1902.6
32.5°	1938.9	1928.5	1922.1	1927.2	1918.2	1903.9	1888.4	1888.4	1875.5	1850.9	1818.5
35°	1866.4	1849.6	1843.1	1847.0	1836.6	1818.5	1805.6	1799.1	1779.7	1748.6	1713.7
37.5°	1773.2	1761.6	1753.8	1757.7	1746.0	1733.1	1708.5	1702.0	1681.3	1638.6	1594.6
40°	1672.3	1663.2	1655.4	1659.3	1646.4	1627.0	1605.0	1594.6	1571.3	1523.4	1488.5
42.5°	1563.5	1559.7	1550.6	1564.8	1538.9	1519.5	1497.5	1480.7	1457.4	1405.6	1365.5
45°	1448.3	1457.4	1436.7	1440.6	1423.7	1406.9	1383.6	1359.0	1335.7	1286.6	1241.3
47.5°	1326.7	1333.1	1318.9	1321.5	1303.4	1287.8	1267.1	1236.1	1210.2	1167.5	1127.4
50°	1201.1	1198.5	1198.5	1195.9	1181.7	1162.3	1141.6	1113.1	1087.2	1048.4	1014.7
52.5°	1067.8	1073.0	1075.6	1082.0	1063.9	1052.3	1019.9	995.3	975.9	935.8	907.3
55°	939.7	957.8	952.6	955.2	934.5	925.4	899.6	880.1	851.7	828.4	810.2
57.5°	823.2	827.1	829.7	833.5	824.5	806.4	785.7	770.1	748.1	728.7	715.8
60°	710.6	710.6	711.9	718.3	709.3	693.8	678.2	666.6	651.0	639.4	631.6
62.5°	604.4	613.5	614.8	609.6	598.0	590.2	579.9	573.4	563.0	559.1	556.6
65°	506.1	506.1	506.1	508.7	502.2	497.0	490.5	489.3	493.1	488.0	490.5
67.5°	423.2	419.4	416.8	418.1	415.5	412.9	411.6	415.5	423.2	423.2	429.7
70°	352.1	344.3	339.1	339.1	339.1	340.4	344.3	352.1	365.0	370.2	379.2
72.5°	293.8	277.0	269.2	269.2	270.5	275.7	287.3	301.6	313.2	323.6	335.2
75°	238.2	221.3	209.7	208.4	211.0	218.7	235.6	248.5	267.9	282.2	296.4
77.5°	192.9	172.1	157.9	156.6	160.5	172.1	192.9	209.7	231.7	247.2	262.7
80°	154.0	130.7	119.1	111.3	117.8	132.0	155.3	176.0	196.7	217.4	236.9
82.5°	123.0	101.0	82.8	75.1	82.8	102.3	124.3	148.8	169.6	191.6	211.0
85°	97.1	73.8	53.1	45.3	54.4	75.1	99.7	124.3	147.6	169.6	189.0
87.5°	76.4	53.1	32.4	22.0	33.7	55.7	79.0	103.5	128.1	150.1	169.6
90°	59.5	37.5	18.1	2.6	19.4	40.1	63.4	86.7	111.3	133.3	152.7
92.5°	50.5	28.5	10.4	0.0	11.6	29.8	51.8	75.1	97.1	119.1	138.5
95°	42.7	23.3	7.8	0.0	7.8	23.3	42.7	63.4	85.4	107.4	126.8
97.5°	36.2	18.1	5.2	0.0	5.2	18.1	34.9	55.7	75.1	95.8	113.9
100°	31.1	15.5	3.9	0.0	3.9	14.2	29.8	47.9	67.3	86.7	103.5
102.5°	27.2	12.9	2.6	0.0	2.6	11.6	24.6	41.4	58.2	76.4	93.2
105°	23.3	10.4	2.6	0.0	1.3	9.1	20.7	36.2	51.8	68.6	84.1
107.5°	20.7	9.1	2.6	0.0	1.3	7.8	18.1	31.1	46.6	60.8	75.1
110°	18.1	7.8	2.6	0.0	1.3	5.2	15.5	27.2	40.1	54.4	68.6



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-68SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	15.5	6.5	1.3	0.0	0.0	3.9	12.9	23.3	34.9	49.2	60.8
115°	14.2	6.5	1.3	0.0	0.0	2.6	10.4	20.7	31.1	44.0	54.4
117.5°	12.9	5.2	1.3	0.0	1.3	2.6	9.1	18.1	27.2	37.5	49.2
120°	11.6	5.2	1.3	0.0	1.3	1.3	6.5	15.5	23.3	33.7	42.7
122.5°	10.4	5.2	1.3	0.0	1.3	1.3	5.2	12.9	20.7	29.8	37.5
125°	9.1	3.9	2.6	1.3	1.3	1.3	3.9	10.4	18.1	24.6	33.7
127.5°	9.1	3.9	2.6	1.3	1.3	1.3	2.6	9.1	14.2	22.0	29.8
130°	7.8	3.9	2.6	1.3	1.3	1.3	1.3	6.5	12.9	18.1	24.6
132.5°	6.5	3.9	2.6	1.3	1.3	1.3	1.3	3.9	9.1	15.5	20.7
135°	6.5	3.9	2.6	1.3	1.3	1.3	1.3	2.6	6.5	11.6	16.8
137.5°	5.2	2.6	2.6	1.3	1.3	1.3	1.3	1.3	5.2	9.1	12.9
140°	5.2	2.6	2.6	1.3	1.3	1.3	1.3	1.3	3.9	6.5	10.4
142.5°	3.9	2.6	2.6	1.3	1.3	1.3	1.3	1.3	2.6	5.2	7.8
145°	3.9	2.6	2.6	1.3	1.3	1.3	1.3	1.3	1.3	2.6	5.2
147.5°	3.9	3.9	2.6	1.3	1.3	1.3	1.3	1.3	1.3	2.6	3.9
150°	3.9	2.6	2.6	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.6
152.5°	3.9	2.6	2.6	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.6
155°	3.9	2.6	2.6	1.3	1.3	1.3	1.3	1.3	1.3	2.6	2.6
157.5°	3.9	2.6	2.6	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.6
160°	3.9	2.6	2.6	1.3	2.6	1.3	2.6	2.6	2.6	2.6	2.6
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-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2353.1	2353.1	2353.1	2353.1	2353.1	2353.1	2353.1	2353.1	2353.1	2353.1	2353.1
2.5°	2359.5	2334.9	2347.9	2344.0	2349.2	2359.5	2358.2	2355.7	2355.7	2351.8	2346.6
5°	2351.8	2328.5	2340.1	2333.7	2340.1	2349.2	2347.9	2344.0	2346.6	2340.1	2333.7
7.5°	2336.2	2315.5	2325.9	2320.7	2325.9	2334.9	2331.1	2329.8	2332.4	2322.0	2318.1
10°	2318.1	2294.8	2306.5	2300.0	2306.5	2312.9	2310.4	2305.2	2310.4	2300.0	2296.1
12.5°	2289.6	2270.2	2278.0	2275.4	2279.3	2285.8	2280.6	2276.7	2279.3	2270.2	2262.5
15°	2258.6	2239.2	2245.6	2241.8	2244.3	2252.1	2243.1	2241.8	2239.2	2230.1	2227.5
17.5°	2218.5	2200.3	2206.8	2200.3	2204.2	2201.6	2200.3	2193.9	2193.9	2183.5	2175.7
20°	2169.3	2153.7	2149.9	2144.7	2149.9	2144.7	2136.9	2131.7	2130.4	2120.1	2113.6
22.5°	2112.3	2094.2	2096.8	2082.6	2083.9	2076.1	2063.1	2058.0	2052.8	2041.1	2032.1
25°	2043.7	2025.6	2012.7	2003.6	1992.0	1990.7	1973.8	1960.9	1959.6	1945.4	1944.1
27.5°	1966.1	1945.4	1935.0	1913.0	1898.8	1887.1	1872.9	1859.9	1853.5	1837.9	1827.6
30°	1876.8	1853.5	1827.6	1812.0	1790.0	1781.0	1756.4	1740.9	1735.7	1718.9	1711.1
32.5°	1775.8	1751.2	1730.5	1700.7	1676.1	1663.2	1638.6	1623.1	1616.6	1598.5	1588.1
35°	1665.8	1638.6	1614.0	1585.5	1566.1	1544.1	1514.4	1498.8	1484.6	1478.1	1470.3
37.5°	1550.6	1520.8	1492.3	1463.9	1447.0	1421.2	1395.3	1384.9	1368.1	1361.6	1353.9
40°	1431.5	1401.7	1374.6	1347.4	1328.0	1304.7	1281.4	1277.5	1259.4	1252.9	1247.7
42.5°	1313.7	1282.7	1251.6	1232.2	1218.0	1194.7	1179.1	1175.2	1159.7	1155.8	1155.8
45°	1207.6	1168.8	1142.9	1126.1	1114.4	1095.0	1082.0	1079.5	1066.5	1063.9	1063.9
47.5°	1093.7	1057.5	1038.0	1027.7	1017.3	1003.1	995.3	995.3	982.4	979.8	978.5
50°	987.6	953.9	939.7	929.3	928.0	917.7	911.2	908.6	908.6	899.6	900.8
52.5°	886.6	869.8	858.1	851.7	843.9	837.4	832.2	832.2	828.4	821.9	824.5
55°	793.4	774.0	775.3	770.1	766.2	762.4	763.6	755.9	754.6	749.4	753.3
57.5°	700.2	700.2	697.6	693.8	687.3	689.9	689.9	689.9	683.4	679.5	683.4
60°	621.3	625.2	618.7	622.6	620.0	621.3	618.7	618.7	614.8	613.5	614.8
62.5°	551.4	557.9	555.3	560.4	557.9	559.1	561.7	556.6	554.0	551.4	554.0
65°	489.3	497.0	495.7	499.6	500.9	502.2	503.5	500.9	498.3	495.7	494.4
67.5°	434.9	442.7	447.8	449.1	450.4	454.3	453.0	450.4	447.8	444.0	442.7
70°	385.7	396.1	402.5	405.1	410.3	407.7	407.7	406.4	403.8	399.9	398.6
72.5°	344.3	355.9	362.4	365.0	370.2	370.2	368.9	367.6	365.0	361.1	359.8
75°	308.0	318.4	327.5	332.6	336.5	336.5	335.2	333.9	331.3	328.8	327.5
77.5°	279.6	288.6	296.4	302.9	305.5	306.8	305.5	302.9	302.9	301.6	300.3
80°	251.1	261.5	269.2	275.7	279.6	279.6	278.3	279.6	277.0	275.7	274.4
82.5°	226.5	238.2	247.2	253.7	256.3	257.6	256.3	257.6	255.0	255.0	255.0
85°	204.5	216.2	226.5	231.7	235.6	236.9	236.9	236.9	235.6	235.6	235.6
87.5°	186.4	198.0	208.4	213.6	217.4	218.7	218.7	220.0	217.4	217.4	217.4
90°	169.6	181.2	191.6	196.7	200.6	203.2	203.2	204.5	203.2	201.9	201.9
92.5°	154.0	167.0	177.3	182.5	186.4	190.3	190.3	191.6	189.0	189.0	189.0
95°	141.1	154.0	163.1	169.6	173.4	176.0	177.3	177.3	176.0	176.0	176.0
97.5°	129.4	141.1	150.1	156.6	160.5	161.8	163.1	164.4	163.1	163.1	163.1
100°	117.8	129.4	138.5	143.7	148.8	150.1	151.4	152.7	152.7	151.4	151.4
102.5°	107.4	119.1	126.8	133.3	137.2	139.8	141.1	141.1	141.1	141.1	141.1
105°	97.1	108.7	116.5	123.0	126.8	129.4	130.7	132.0	132.0	130.7	130.7
107.5°	88.0	98.4	107.4	112.6	117.8	120.4	121.7	121.7	123.0	121.7	121.7
110°	79.0	90.6	98.4	103.5	108.7	111.3	112.6	113.9	113.9	113.9	113.9



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-68SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	72.5	81.5	89.3	94.5	99.7	102.3	103.5	104.8	106.1	104.8	104.8
115°	64.7	73.8	81.5	86.7	90.6	93.2	95.8	97.1	97.1	98.4	97.1
117.5°	58.2	66.0	73.8	79.0	82.8	86.7	88.0	89.3	90.6	89.3	89.3
120°	51.8	59.5	66.0	71.2	75.1	79.0	80.2	81.5	82.8	81.5	81.5
122.5°	46.6	53.1	59.5	64.7	68.6	71.2	73.8	73.8	75.1	75.1	75.1
125°	41.4	47.9	53.1	58.2	62.1	64.7	66.0	67.3	67.3	68.6	68.6
127.5°	36.2	41.4	47.9	51.8	55.7	58.2	59.5	60.8	60.8	62.1	62.1
130°	31.1	36.2	41.4	45.3	49.2	51.8	53.1	54.4	55.7	55.7	55.7
132.5°	27.2	32.4	36.2	40.1	42.7	45.3	47.9	49.2	49.2	49.2	49.2
135°	22.0	27.2	31.1	34.9	37.5	40.1	41.4	44.0	44.0	44.0	44.0
137.5°	18.1	23.3	27.2	29.8	32.4	34.9	36.2	37.5	38.8	38.8	38.8
140°	14.2	18.1	22.0	25.9	28.5	29.8	32.4	32.4	33.7	33.7	33.7
142.5°	10.4	14.2	16.8	20.7	23.3	25.9	27.2	28.5	28.5	28.5	28.5
145°	7.8	10.4	12.9	15.5	19.4	20.7	22.0	23.3	24.6	24.6	24.6
147.5°	5.2	7.8	9.1	11.6	14.2	16.8	18.1	19.4	20.7	20.7	20.7
150°	3.9	5.2	7.8	9.1	10.4	12.9	15.5	15.5	16.8	16.8	15.5
152.5°	2.6	3.9	5.2	6.5	7.8	9.1	11.6	11.6	12.9	12.9	12.9
155°	2.6	2.6	2.6	3.9	5.2	6.5	7.8	9.1	9.1	9.1	9.1
157.5°	2.6	2.6	2.6	2.6	2.6	3.9	5.2	6.5	6.5	6.5	6.5
160°	2.6	2.6	1.3	1.3	2.6	2.6	2.6	2.6	3.9	3.9	3.9
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-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2353.1	2353.1	2353.1	2353.1	2353.1	2353.1	2353.1	2353.1	2353.1	2353.1	2353.1
2.5°	2350.5	2353.1	2353.1	2350.5	2349.2	2354.4	2347.9	2323.3	2331.1	2333.7	2341.4
5°	2338.8	2341.4	2341.4	2341.4	2338.8	2344.0	2337.5	2312.9	2322.0	2325.9	2331.1
7.5°	2322.0	2323.3	2325.9	2324.6	2322.0	2329.8	2323.3	2298.7	2305.2	2311.7	2318.1
10°	2300.0	2300.0	2301.3	2303.9	2301.3	2307.8	2301.3	2279.3	2285.8	2289.6	2297.4
12.5°	2270.2	2272.8	2274.1	2272.8	2271.5	2276.7	2274.1	2253.4	2256.0	2263.8	2271.5
15°	2230.1	2230.1	2236.6	2234.0	2234.0	2239.2	2241.8	2218.5	2222.3	2234.0	2241.8
17.5°	2180.9	2182.2	2187.4	2190.0	2188.7	2197.8	2199.0	2180.9	2179.6	2193.9	2201.6
20°	2117.5	2120.1	2126.6	2131.7	2131.7	2142.1	2146.0	2134.3	2135.6	2151.2	2153.7
22.5°	2039.8	2039.8	2051.5	2059.3	2065.7	2072.2	2083.9	2073.5	2073.5	2094.2	2105.9
25°	1944.1	1953.1	1957.0	1972.5	1981.6	1999.7	2010.1	2011.4	2012.7	2032.1	2039.8
27.5°	1837.9	1840.5	1852.2	1870.3	1880.6	1897.5	1916.9	1920.8	1927.2	1953.1	1964.8
30°	1717.6	1725.3	1730.5	1756.4	1770.6	1792.6	1817.2	1826.3	1831.5	1866.4	1880.6
32.5°	1594.6	1597.2	1619.2	1633.4	1650.3	1673.6	1702.0	1718.9	1729.2	1765.4	1786.2
35°	1471.6	1476.8	1494.9	1513.1	1529.9	1553.2	1583.0	1606.2	1624.4	1656.7	1683.9
37.5°	1359.0	1372.0	1375.9	1394.0	1406.9	1430.2	1450.9	1484.6	1502.7	1536.4	1571.3
40°	1258.1	1262.0	1264.5	1282.7	1291.7	1313.7	1343.5	1365.5	1390.1	1414.7	1456.1
42.5°	1158.4	1161.0	1164.9	1175.2	1185.6	1201.1	1223.1	1245.1	1271.0	1307.3	1334.4
45°	1066.5	1069.1	1071.7	1078.2	1087.2	1101.5	1115.7	1131.2	1157.1	1188.2	1216.7
47.5°	981.1	986.3	986.3	987.6	994.0	1005.7	1016.0	1035.5	1049.7	1066.5	1098.9
50°	899.6	903.4	904.7	904.7	908.6	916.4	919.0	931.9	944.9	960.4	983.7
52.5°	823.2	823.2	821.9	827.1	827.1	832.2	833.5	841.3	850.4	867.2	877.5
55°	750.7	750.7	754.6	752.0	752.0	754.6	753.3	754.6	762.4	772.7	781.8
57.5°	680.8	679.5	683.4	680.8	679.5	682.1	684.7	679.5	680.8	691.2	691.2
60°	610.9	612.2	616.1	613.5	613.5	613.5	610.9	608.3	605.7	612.2	614.8
62.5°	555.3	551.4	555.3	551.4	554.0	552.7	550.1	544.9	546.2	543.6	541.0
65°	497.0	497.0	498.3	494.4	497.0	497.0	493.1	491.8	484.1	481.5	475.0
67.5°	446.5	446.5	447.8	445.2	445.2	446.5	442.7	438.8	431.0	427.1	418.1
70°	402.5	402.5	402.5	401.2	401.2	401.2	398.6	393.5	385.7	379.2	367.6
72.5°	362.4	363.7	362.4	362.4	366.3	362.4	358.5	353.3	346.9	333.9	323.6
75°	330.1	331.3	330.1	330.1	330.1	328.8	327.5	319.7	311.9	301.6	286.0
77.5°	301.6	301.6	302.9	301.6	301.6	300.3	296.4	289.9	280.9	271.8	253.7
80°	274.4	275.7	277.0	278.3	275.7	274.4	270.5	265.3	253.7	243.3	225.2
82.5°	255.0	253.7	255.0	256.3	253.7	252.4	248.5	242.0	233.0	218.7	200.6
85°	235.6	234.3	234.3	235.6	234.3	231.7	227.8	221.3	212.3	198.0	179.9
87.5°	216.2	217.4	218.7	217.4	216.2	213.6	209.7	203.2	192.9	181.2	161.8
90°	201.9	201.9	201.9	201.9	200.6	198.0	194.1	186.4	177.3	163.1	146.3
92.5°	189.0	189.0	189.0	189.0	187.7	183.8	179.9	173.4	163.1	148.8	133.3
95°	176.0	177.3	176.0	176.0	173.4	172.1	165.7	159.2	150.1	135.9	119.1
97.5°	161.8	163.1	161.8	161.8	160.5	157.9	154.0	146.3	137.2	124.3	108.7
100°	151.4	151.4	150.1	150.1	148.8	146.3	141.1	134.6	125.5	112.6	97.1
102.5°	139.8	141.1	139.8	139.8	137.2	134.6	130.7	124.3	115.2	102.3	88.0
105°	130.7	130.7	129.4	129.4	126.8	124.3	120.4	112.6	104.8	93.2	79.0
107.5°	121.7	121.7	120.4	120.4	117.8	115.2	110.0	103.5	95.8	84.1	71.2
110°	112.6	112.6	112.6	111.3	108.7	104.8	101.0	94.5	86.7	76.4	63.4



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-68SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	106.1	104.8	103.5	102.3	99.7	97.1	91.9	85.4	77.7	68.6	56.9
115°	97.1	97.1	95.8	94.5	91.9	88.0	84.1	79.0	71.2	60.8	50.5
117.5°	89.3	89.3	88.0	86.7	84.1	80.2	76.4	71.2	63.4	54.4	45.3
120°	81.5	81.5	80.2	79.0	76.4	72.5	69.9	63.4	56.9	47.9	40.1
122.5°	75.1	73.8	73.8	71.2	69.9	66.0	62.1	56.9	50.5	42.7	34.9
125°	67.3	67.3	66.0	64.7	63.4	59.5	55.7	50.5	44.0	37.5	31.1
127.5°	60.8	60.8	59.5	58.2	56.9	53.1	49.2	45.3	38.8	32.4	25.9
130°	54.4	54.4	53.1	51.8	50.5	46.6	44.0	38.8	33.7	28.5	22.0
132.5°	49.2	49.2	47.9	46.6	44.0	41.4	38.8	33.7	29.8	24.6	19.4
135°	44.0	42.7	42.7	41.4	38.8	36.2	33.7	29.8	24.6	20.7	15.5
137.5°	38.8	37.5	36.2	34.9	33.7	31.1	28.5	25.9	22.0	16.8	12.9
140°	33.7	32.4	32.4	31.1	28.5	27.2	24.6	20.7	18.1	14.2	10.4
142.5°	28.5	28.5	27.2	25.9	24.6	23.3	20.7	18.1	14.2	11.6	7.8
145°	24.6	23.3	23.3	22.0	20.7	18.1	16.8	14.2	11.6	9.1	6.5
147.5°	19.4	19.4	19.4	18.1	16.8	15.5	14.2	11.6	9.1	6.5	3.9
150°	15.5	15.5	15.5	14.2	12.9	11.6	10.4	9.1	6.5	3.9	2.6
152.5°	12.9	12.9	11.6	11.6	10.4	9.1	7.8	6.5	3.9	2.6	2.6
155°	9.1	9.1	9.1	7.8	7.8	6.5	5.2	3.9	2.6	2.6	2.6
157.5°	6.5	6.5	6.5	5.2	5.2	3.9	3.9	2.6	2.6	2.6	2.6
160°	3.9	3.9	3.9	3.9	2.6	2.6	2.6	2.6	2.6	2.6	2.6
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-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2353.1	2353.1	2353.1	2353.1	2353.1	2353.1	2353.1
2.5°	2337.5	2336.2	2346.6	2346.6	2334.9	2353.1	2372.5
5°	2329.8	2328.5	2338.8	2338.8	2328.5	2346.6	2367.3
7.5°	2314.2	2315.5	2325.9	2328.5	2315.5	2332.4	2354.4
10°	2297.4	2296.1	2307.8	2310.4	2300.0	2315.5	2336.2
12.5°	2270.2	2270.2	2281.9	2285.8	2275.4	2293.5	2312.9
15°	2241.8	2241.8	2249.5	2256.0	2246.9	2263.8	2283.2
17.5°	2205.5	2204.2	2212.0	2219.8	2210.7	2228.8	2249.5
20°	2158.9	2158.9	2168.0	2177.0	2170.6	2187.4	2210.7
22.5°	2109.7	2104.6	2120.1	2126.6	2122.7	2139.5	2162.8
25°	2047.6	2046.3	2061.8	2070.9	2065.7	2083.9	2104.6
27.5°	1980.3	1979.0	1994.5	2006.2	2003.6	2020.4	2043.7
30°	1898.8	1905.2	1919.5	1938.9	1932.4	1950.5	1975.1
32.5°	1813.3	1819.8	1836.6	1857.3	1858.6	1872.9	1897.5
35°	1711.1	1727.9	1739.6	1766.7	1771.9	1786.2	1812.0
37.5°	1603.7	1623.1	1647.7	1668.4	1678.7	1690.4	1720.1
40°	1483.3	1511.8	1538.9	1563.5	1576.5	1588.1	1616.6
42.5°	1374.6	1396.6	1422.5	1447.0	1470.3	1480.7	1510.5
45°	1251.6	1277.5	1300.8	1330.6	1353.9	1365.5	1395.3
47.5°	1131.2	1157.1	1188.2	1208.9	1233.5	1245.1	1273.6
50°	1016.0	1039.3	1065.2	1089.8	1110.5	1120.9	1145.5
52.5°	902.1	926.7	951.3	966.9	988.9	996.6	1017.3
55°	801.2	818.0	840.0	849.1	871.1	876.3	890.5
57.5°	704.1	715.8	723.5	739.1	754.6	766.2	783.1
60°	616.1	621.3	626.4	635.5	648.5	652.3	658.8
62.5°	537.1	535.8	546.2	548.8	550.1	563.0	556.6
65°	467.2	468.5	459.5	455.6	460.8	464.7	462.1
67.5°	409.0	401.2	393.5	384.4	376.6	380.5	376.6
70°	352.1	345.6	332.6	319.7	314.5	306.8	302.9
72.5°	306.8	291.2	278.3	261.5	252.4	243.3	236.9
75°	271.8	249.8	231.7	213.6	200.6	187.7	185.1
77.5°	235.6	214.9	194.1	174.7	155.3	141.1	135.9
80°	207.1	187.7	163.1	139.8	119.1	101.0	94.5
82.5°	181.2	160.5	135.9	111.3	88.0	68.6	60.8
85°	159.2	137.2	112.6	88.0	64.7	44.0	33.7
87.5°	142.4	117.8	93.2	69.9	45.3	24.6	12.9
90°	126.8	103.5	80.2	55.7	32.4	12.9	0.0
92.5°	112.6	90.6	67.3	45.3	24.6	7.8	1.3
95°	99.7	80.2	56.9	36.2	18.1	5.2	1.3
97.5°	89.3	69.9	49.2	29.8	14.2	3.9	1.3
100°	80.2	60.8	42.7	24.6	11.6	2.6	1.3
102.5°	71.2	54.4	36.2	20.7	9.1	1.3	1.3
105°	63.4	47.9	31.1	18.1	7.8	1.3	1.3
107.5°	56.9	42.7	27.2	15.5	5.2	1.3	1.3
110°	50.5	36.2	23.3	12.9	3.9	1.3	1.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-68SL-LN-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	45.3	32.4	20.7	10.4	2.6	1.3	1.3
115°	40.1	28.5	18.1	9.1	2.6	1.3	1.3
117.5°	34.9	24.6	15.5	6.5	1.3	1.3	1.3
120°	31.1	22.0	12.9	5.2	1.3	1.3	1.3
122.5°	27.2	18.1	10.4	3.9	1.3	1.3	1.3
125°	23.3	15.5	9.1	2.6	1.3	1.3	1.3
127.5°	19.4	12.9	6.5	2.6	1.3	1.3	1.3
130°	16.8	10.4	5.2	1.3	1.3	1.3	1.3
132.5°	14.2	7.8	3.9	1.3	1.3	1.3	1.3
135°	11.6	6.5	2.6	1.3	1.3	1.3	1.3
137.5°	9.1	5.2	2.6	1.3	1.3	1.3	1.3
140°	6.5	3.9	1.3	1.3	1.3	1.3	1.3
142.5°	5.2	2.6	1.3	1.3	1.3	1.3	1.3
145°	3.9	2.6	1.3	1.3	1.3	1.3	1.3
147.5°	2.6	2.6	2.6	2.6	1.3	1.3	1.3
150°	2.6	2.6	1.3	1.3	2.6	1.3	1.3
152.5°	2.6	1.3	1.3	1.3	2.6	1.3	1.3
155°	2.6	2.6	2.6	2.6	2.6	2.6	1.3
157.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6
160°	2.6	2.6	2.6	2.6	2.6	2.6	2.6
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)