

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-LD5-88SL-LW-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 (P33520)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNLED-LD5-88SL-LW-UNV-L940-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
WIDE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

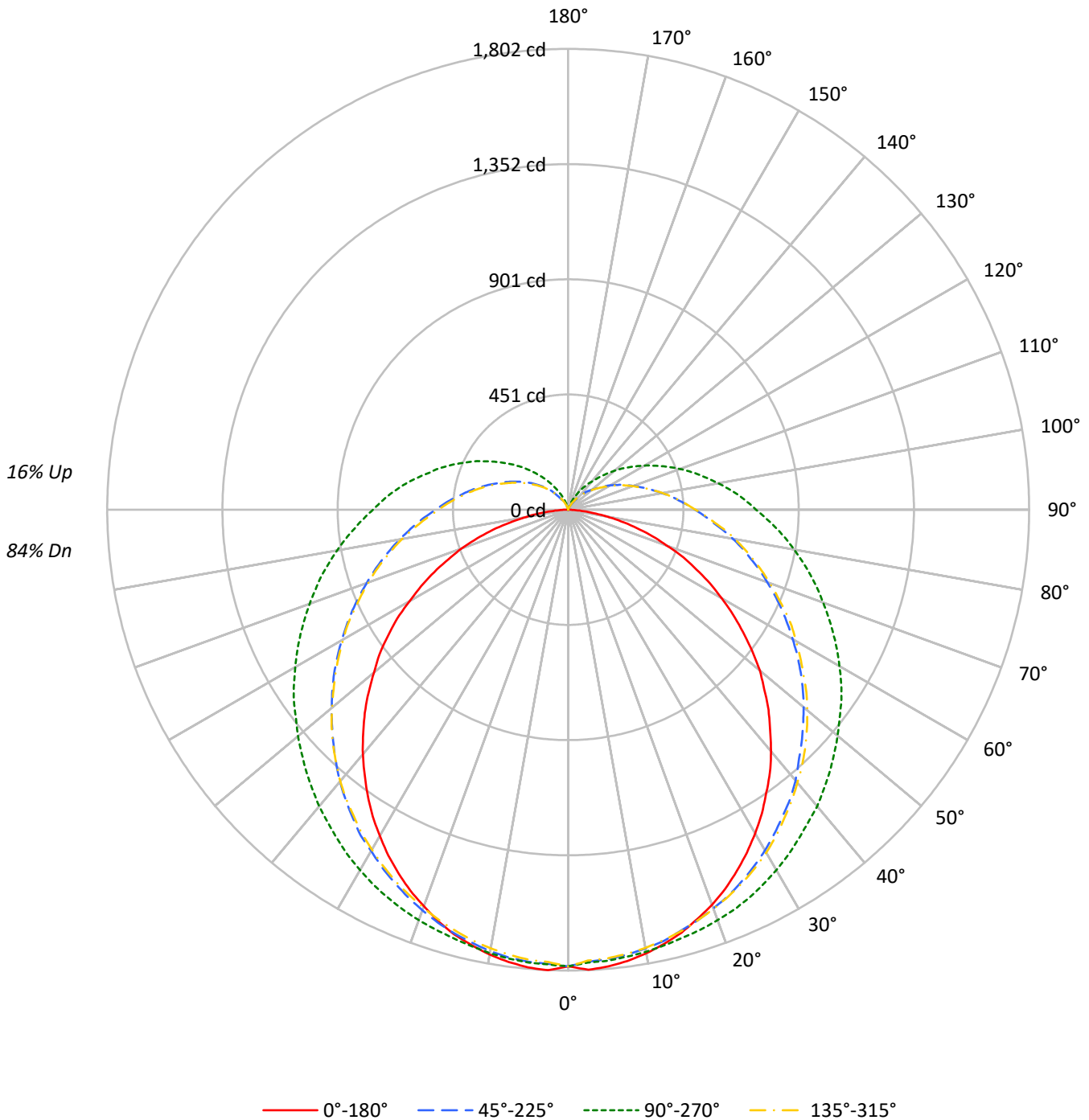
Lumens per Lamp: N/A
Luminaire Lumens: 7757.0 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 75
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



TEST NUMBER: P#
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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	50	30	10	50	30	10	50	30	10	0																
RCR																																														
0	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	84																												
1	102	96	91	86	98	92	87	83	85	81	77	78	75	72	72	70	67	64																												
2	92	82	74	68	87	79	72	66	73	67	62	67	62	58	62	58	54	51																												
3	83	71	62	55	79	69	60	54	63	56	51	58	52	48	54	49	45	42																												
4	76	63	53	46	72	60	52	45	56	48	42	51	45	40	47	42	38	35																												
5	69	56	46	39	66	54	45	38	50	42	36	46	39	34	42	37	33	30																												
6	64	50	41	34	61	48	39	33	45	37	31	41	35	30	38	33	28	26																												
7	59	45	36	30	56	43	35	29	40	33	28	38	31	26	35	29	25	23																												
8	55	41	32	26	52	40	31	26	37	30	24	34	28	23	32	26	22	20																												
9	51	37	29	23	49	36	28	23	34	27	22	32	25	21	30	24	20	18																												
10	48	34	26	21	46	33	26	21	31	24	20	29	23	19	27	22	18	16																												

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7214	7214	7214	7214
5°	7262	6952	7277	6982
10°	7205	6755	7228	6777
15°	7132	6586	7163	6593
20°	7030	6462	7054	6462
25°	6902	6352	6943	6345
30°	6758	6240	6810	6240
35°	6589	6135	6662	6142
40°	6422	6074	6501	6074
45°	6230	6009	6326	6017
50°	6032	5971	6114	5987
55°	5749	5977	5931	6003
60°	5453	5995	5631	6032
65°	5122	6055	5349	6115
70°	4651	6166	5013	6254
75°	4111	6368	4501	6491
80°	3262	6667	3704	6821
85°	2073	7146	2592	7344



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.1	2.2
10°-20°	486.1	6.3
20°-30°	745.3	9.6
30°-40°	919.4	11.9
40°-50°	997.5	12.9
50°-60°	983.2	12.7
60°-70°	888.9	11.5
70°-80°	740.6	9.5
80°-90°	573.6	7.4
90°-100°	435.0	5.6
100°-110°	321.9	4.2
110°-120°	223.9	2.9
120°-130°	142.9	1.8
130°-140°	80.2	1.0
140°-150°	36.6	0.5
150°-160°	11.3	0.1
160°-170°	1.4	0.0
170°-180°	0.0	0.0
0°-30°	1400.5	18.1
0°-40°	2320.0	29.9
0°-60°	4300.7	55.4
0°-90°	6503.7	83.8
90°-120°	980.9	12.6
90°-150°	1240.5	16.0
90°-180°	1253.0	16.2
0°-180°	7757.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1785	1785	1785	1785	1785	
5°	1793	1770	1797	1778	1793	170
15°	1712	1733	1720	1735	1712	482
25°	1559	1674	1569	1672	1559	718
35°	1350	1571	1365	1573	1350	846
45°	1107	1446	1124	1448	1107	853
55°	834	1303	861	1309	834	747
65°	554	1143	578	1154	554	549
75°	279	979	305	998	279	295
85°	53	816	66	838	53	64
90°	2	734	4	763	2	3
95°	2	667	2	699	2	2
105°	2	529	2	561	2	2
115°	2	403	2	439	2	2
125°	2	290	2	322	2	2
135°	2	188	2	222	2	1
145°	2	109	2	134	2	1
155°	2	45	2	62	2	1
165°	2	8	2	11	2	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-88SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1785.4	1785.4	1785.4	1785.4	1785.4	1785.4	1785.4	1785.4	1785.4	1785.4	1785.4
2.5°	1800.5	1800.5	1798.6	1794.9	1796.7	1802.4	1798.6	1789.2	1783.6	1768.5	1772.3
5°	1793.0	1793.0	1791.1	1787.3	1789.2	1796.7	1793.0	1785.4	1777.9	1764.7	1770.4
7.5°	1779.8	1779.8	1777.9	1774.1	1777.9	1785.4	1781.7	1774.1	1768.5	1755.3	1761.0
10°	1761.0	1762.8	1761.0	1755.3	1762.8	1770.4	1768.5	1759.1	1753.4	1742.1	1747.8
12.5°	1738.3	1740.2	1738.3	1736.5	1740.2	1751.5	1747.8	1740.2	1736.5	1727.0	1732.7
15°	1712.0	1713.9	1710.1	1710.1	1713.9	1725.2	1725.2	1717.6	1713.9	1704.4	1715.7
17.5°	1678.1	1680.0	1678.1	1678.1	1681.8	1693.1	1695.0	1691.3	1687.5	1683.7	1695.0
20°	1644.2	1642.3	1642.3	1640.4	1647.9	1664.9	1663.0	1663.0	1659.2	1659.2	1672.4
22.5°	1604.6	1604.6	1602.7	1602.7	1612.2	1627.2	1627.2	1631.0	1627.2	1634.8	1646.1
25°	1559.4	1561.3	1559.4	1563.2	1570.7	1587.7	1589.6	1595.2	1597.1	1604.6	1617.8
27.5°	1512.3	1514.2	1512.3	1516.1	1529.3	1542.5	1551.9	1559.4	1561.3	1572.6	1589.6
30°	1461.5	1461.5	1463.4	1467.1	1482.2	1502.9	1510.5	1519.9	1519.9	1538.7	1555.7
32.5°	1408.8	1408.8	1408.8	1416.3	1433.2	1457.7	1467.1	1478.4	1482.2	1501.0	1519.9
35°	1350.4	1352.3	1352.3	1357.9	1380.5	1405.0	1418.2	1431.4	1438.9	1461.5	1480.3
37.5°	1295.8	1299.5	1293.9	1301.4	1333.4	1354.1	1369.2	1382.4	1395.6	1425.7	1440.8
40°	1233.6	1237.4	1235.5	1250.6	1276.9	1303.3	1320.2	1333.4	1352.3	1382.4	1399.3
42.5°	1167.7	1171.5	1175.2	1192.2	1220.4	1246.8	1267.5	1284.5	1307.1	1333.4	1361.7
45°	1107.4	1107.4	1113.1	1133.8	1163.9	1192.2	1216.7	1235.5	1261.9	1290.1	1318.4
47.5°	1039.6	1041.5	1049.0	1073.5	1105.5	1139.4	1162.0	1186.5	1214.8	1244.9	1276.9
50°	977.5	977.5	988.8	1015.1	1045.3	1082.9	1107.4	1135.7	1165.8	1201.6	1233.6
52.5°	905.9	909.7	926.6	951.1	990.7	1024.6	1052.8	1082.9	1118.7	1156.4	1192.2
55°	834.3	841.9	855.0	889.0	930.4	962.4	996.3	1034.0	1067.9	1109.3	1150.7
57.5°	764.6	770.3	791.0	824.9	868.2	907.8	943.6	979.4	1020.8	1062.2	1105.5
60°	693.1	700.6	725.1	759.0	806.1	847.5	889.0	926.6	969.9	1013.3	1058.5
62.5°	625.3	630.9	659.2	698.7	745.8	791.0	832.4	877.6	924.7	966.2	1011.4
65°	553.7	563.1	595.1	630.9	685.5	730.7	777.8	826.8	875.8	921.0	964.3
67.5°	487.8	493.4	527.3	568.8	623.4	674.2	723.2	775.9	826.8	873.9	917.2
70°	410.6	429.4	463.3	506.6	565.0	617.7	670.5	725.1	779.7	828.7	870.1
72.5°	346.5	361.6	399.3	446.4	502.9	565.0	619.6	678.0	732.6	783.5	826.8
75°	278.7	293.8	337.1	389.9	448.2	514.2	570.7	630.9	687.4	738.3	783.5
77.5°	212.8	231.7	278.7	333.4	397.4	465.2	523.6	583.8	642.2	696.8	742.0
80°	152.6	173.3	224.1	286.3	348.4	416.2	480.3	540.5	598.9	653.5	700.6
82.5°	97.9	120.5	175.2	237.3	303.2	371.0	436.9	497.2	555.6	610.2	659.2
85°	52.7	77.2	133.7	195.9	261.8	329.6	395.5	459.5	516.0	566.9	619.6
87.5°	15.1	45.2	99.8	162.0	229.8	291.9	356.0	420.0	476.5	531.1	578.2
90°	1.9	26.4	75.3	133.7	199.6	259.9	323.9	384.2	440.7	495.3	542.4
92.5°	1.9	17.0	58.4	111.1	171.4	233.5	297.6	356.0	408.7	463.3	510.4
95°	1.9	13.2	47.1	94.2	150.7	209.1	269.3	325.8	380.4	431.3	478.4
97.5°	1.9	9.4	37.7	81.0	131.8	186.5	244.8	301.3	354.1	403.0	446.4
100°	1.9	7.5	30.1	69.7	114.9	167.6	220.4	275.0	325.8	372.9	418.1
102.5°	1.9	5.7	26.4	58.4	101.7	148.8	199.6	250.5	299.5	344.7	389.9
105°	1.9	5.7	22.6	50.9	90.4	133.7	180.8	229.8	275.0	318.3	359.7
107.5°	1.9	3.8	18.8	43.3	79.1	120.5	163.9	210.9	252.4	293.8	333.4
110°	1.9	3.8	15.1	39.6	69.7	107.4	148.8	192.1	231.7	271.2	308.9



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CATALOG NUMBER: 8SNLED-LD5-88SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.9	3.8	13.2	33.9	60.3	96.1	133.7	173.3	210.9	250.5	284.4
115°	1.9	3.8	11.3	30.1	56.5	82.9	120.5	156.3	194.0	229.8	261.8
117.5°	1.9	3.8	9.4	24.5	49.0	75.3	105.5	141.3	175.2	209.1	239.2
120°	1.9	3.8	7.5	22.6	43.3	67.8	94.2	126.2	158.2	190.2	222.2
122.5°	1.9	1.9	7.5	18.8	37.7	60.3	86.6	111.1	141.3	171.4	199.6
125°	1.9	1.9	7.5	17.0	32.0	54.6	77.2	99.8	126.2	152.6	177.0
127.5°	1.9	1.9	5.7	13.2	28.3	47.1	67.8	92.3	111.1	135.6	160.1
130°	1.9	1.9	5.7	11.3	24.5	39.6	60.3	81.0	103.6	120.5	141.3
132.5°	1.9	1.9	5.7	9.4	18.8	32.0	50.9	69.7	90.4	109.2	126.2
135°	1.9	1.9	3.8	7.5	15.1	26.4	41.4	58.4	79.1	97.9	114.9
137.5°	1.9	1.9	3.8	7.5	11.3	22.6	32.0	47.1	65.9	82.9	99.8
140°	1.9	1.9	3.8	5.7	9.4	17.0	26.4	37.7	52.7	67.8	86.6
142.5°	1.9	1.9	1.9	5.7	7.5	13.2	20.7	30.1	41.4	54.6	69.7
145°	1.9	1.9	1.9	5.7	7.5	9.4	17.0	24.5	32.0	41.4	54.6
147.5°	1.9	1.9	1.9	3.8	5.7	7.5	13.2	18.8	24.5	32.0	39.6
150°	1.9	1.9	1.9	3.8	5.7	7.5	9.4	13.2	18.8	26.4	32.0
152.5°	1.9	1.9	1.9	3.8	3.8	5.7	7.5	9.4	13.2	18.8	22.6
155°	1.9	1.9	1.9	1.9	3.8	5.7	7.5	7.5	9.4	13.2	17.0
157.5°	1.9	1.9	1.9	1.9	3.8	3.8	5.7	5.7	7.5	7.5	11.3
160°	1.9	1.9	1.9	1.9	1.9	3.8	3.8	5.7	5.7	5.7	5.7
162.5°	1.9	1.9	1.9	1.9	1.9	1.9	3.8	3.8	3.8	5.7	5.7
165°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	3.8	3.8	3.8
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°	1785.4	1785.4	1785.4	1785.4	1785.4	1785.4	1785.4	1785.4	1785.4	1785.4	1785.4
2.5°	1772.3	1774.1	1779.8	1779.8	1776.0	1776.0	1774.1	1772.3	1774.1	1777.9	1777.9
5°	1768.5	1770.4	1776.0	1777.9	1774.1	1772.3	1772.3	1770.4	1772.3	1776.0	1776.0
7.5°	1761.0	1762.8	1768.5	1770.4	1766.6	1766.6	1764.7	1762.8	1766.6	1768.5	1768.5
10°	1749.6	1751.5	1759.1	1761.0	1759.1	1757.2	1757.2	1755.3	1757.2	1761.0	1761.0
12.5°	1734.6	1738.3	1747.8	1747.8	1747.8	1745.9	1745.9	1744.0	1745.9	1749.6	1747.8
15°	1717.6	1725.2	1732.7	1736.5	1736.5	1736.5	1734.6	1732.7	1736.5	1738.3	1736.5
17.5°	1698.8	1708.2	1719.5	1723.3	1723.3	1725.2	1723.3	1721.4	1725.2	1725.2	1723.3
20°	1680.0	1689.4	1700.7	1704.4	1708.2	1710.1	1710.1	1708.2	1710.1	1712.0	1710.1
22.5°	1655.5	1666.8	1680.0	1685.6	1689.4	1693.1	1693.1	1693.1	1695.0	1696.9	1693.1
25°	1629.1	1642.3	1657.4	1663.0	1670.5	1672.4	1674.3	1674.3	1676.2	1678.1	1672.4
27.5°	1600.9	1615.9	1631.0	1640.4	1646.1	1649.8	1649.8	1651.7	1653.6	1655.5	1649.8
30°	1567.0	1589.6	1602.7	1610.3	1617.8	1623.5	1625.3	1627.2	1629.1	1631.0	1625.3
32.5°	1536.8	1555.7	1572.6	1582.0	1591.4	1599.0	1600.9	1600.9	1604.6	1604.6	1599.0
35°	1501.0	1523.6	1540.6	1550.0	1561.3	1567.0	1570.7	1570.7	1574.5	1574.5	1568.8
37.5°	1465.3	1487.9	1506.7	1518.0	1531.2	1538.7	1540.6	1540.6	1544.4	1544.4	1536.8
40°	1427.6	1452.1	1472.8	1486.0	1497.3	1506.7	1508.6	1514.2	1514.2	1512.3	1504.8
42.5°	1389.9	1412.5	1435.1	1450.2	1465.3	1474.7	1478.4	1480.3	1480.3	1478.4	1472.8
45°	1348.5	1374.9	1395.6	1414.4	1429.5	1438.9	1444.5	1446.4	1446.4	1442.7	1437.0
47.5°	1308.9	1335.3	1356.0	1376.7	1391.8	1403.1	1408.8	1410.6	1408.8	1406.9	1401.2
50°	1267.5	1297.6	1318.4	1339.1	1354.1	1363.6	1373.0	1374.9	1373.0	1371.1	1359.8
52.5°	1224.2	1256.2	1278.8	1299.5	1316.5	1327.8	1335.3	1337.2	1337.2	1333.4	1325.9
55°	1180.9	1209.1	1237.4	1260.0	1278.8	1290.1	1299.5	1303.3	1299.5	1295.8	1286.3
57.5°	1141.3	1167.7	1195.9	1220.4	1239.3	1254.3	1261.9	1265.6	1261.9	1256.2	1246.8
60°	1094.2	1122.5	1154.5	1177.1	1197.8	1212.9	1216.7	1224.2	1220.4	1214.8	1205.4
62.5°	1049.0	1082.9	1111.2	1139.4	1156.4	1173.3	1180.9	1184.6	1180.9	1175.2	1165.8
65°	1002.0	1039.6	1067.9	1096.1	1115.0	1131.9	1141.3	1143.2	1139.4	1133.8	1124.4
67.5°	958.6	994.4	1024.6	1054.7	1071.6	1088.6	1098.0	1101.8	1098.0	1090.5	1081.1
70°	915.3	951.1	986.9	1009.5	1030.2	1049.0	1054.7	1060.3	1056.6	1049.0	1037.7
72.5°	872.0	909.7	945.5	968.1	990.7	1007.6	1015.1	1020.8	1017.0	1009.5	996.3
75°	826.8	866.3	902.1	926.6	949.2	966.2	973.7	979.4	975.6	968.1	953.0
77.5°	785.4	824.9	858.8	885.2	907.8	922.9	936.0	937.9	934.2	926.6	911.6
80°	742.0	781.6	817.4	843.7	866.3	881.4	890.8	896.5	892.7	885.2	870.1
82.5°	704.4	740.2	775.9	802.3	824.9	843.7	851.3	856.9	855.0	843.7	832.4
85°	662.9	704.4	732.6	760.9	783.5	802.3	808.0	815.5	813.6	804.2	789.1
87.5°	621.5	662.9	696.8	725.1	745.8	760.9	770.3	774.1	772.2	762.8	745.8
90°	587.6	625.3	659.2	689.3	706.3	723.2	732.6	734.5	734.5	723.2	710.0
92.5°	555.6	591.4	625.3	653.5	674.2	689.3	696.8	700.6	698.7	689.3	674.2
95°	519.8	559.4	591.4	619.6	640.3	655.4	662.9	666.7	664.8	655.4	640.3
97.5°	489.7	525.5	557.5	583.8	604.6	619.6	627.2	630.9	630.9	621.5	606.4
100°	459.5	495.3	525.5	551.8	570.7	585.7	593.3	595.1	593.3	585.7	570.7
102.5°	429.4	463.3	493.4	517.9	538.6	551.8	559.4	561.2	561.2	551.8	536.8
105°	399.3	433.2	461.4	487.8	504.7	517.9	523.6	529.2	527.3	519.8	504.7
107.5°	371.0	404.9	431.3	455.8	472.7	485.9	491.6	497.2	495.3	487.8	472.7
110°	344.7	376.7	401.2	425.6	440.7	453.9	463.3	465.2	461.4	453.9	440.7



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-88SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	320.2	348.4	372.9	395.5	412.5	421.9	429.4	433.2	429.4	421.9	412.5
115°	293.8	322.1	346.5	367.3	382.3	393.6	399.3	403.0	399.3	391.7	382.3
117.5°	269.3	295.7	320.2	340.9	354.1	363.5	369.1	372.9	369.1	363.5	354.1
120°	248.6	271.2	293.8	312.6	327.7	335.2	340.9	344.7	342.8	335.2	325.8
122.5°	224.1	248.6	269.3	288.2	301.3	308.9	312.6	316.4	314.5	308.9	299.5
125°	203.4	224.1	244.8	261.8	275.0	282.5	286.3	290.0	288.2	282.5	271.2
127.5°	180.8	203.4	220.4	237.3	246.7	258.0	259.9	263.7	261.8	256.1	246.7
130°	163.9	180.8	197.8	212.8	224.1	231.7	235.4	237.3	233.5	229.8	220.4
132.5°	143.1	162.0	177.0	190.2	197.8	205.3	209.1	210.9	210.9	205.3	197.8
135°	128.1	141.3	154.4	167.6	175.2	182.7	186.5	188.3	186.5	182.7	175.2
137.5°	114.9	126.2	135.6	146.9	156.3	160.1	163.9	163.9	162.0	160.1	154.4
140°	99.8	113.0	122.4	130.0	137.5	139.4	143.1	143.1	141.3	139.4	135.6
142.5°	84.8	96.1	105.5	114.9	120.5	124.3	126.2	128.1	126.2	124.3	118.7
145°	67.8	81.0	90.4	96.1	103.6	105.5	107.4	109.2	107.4	105.5	99.8
147.5°	52.7	64.0	73.5	81.0	86.6	88.5	90.4	92.3	90.4	86.6	84.8
150°	37.7	47.1	58.4	65.9	69.7	73.5	73.5	73.5	75.3	71.6	67.8
152.5°	30.1	33.9	41.4	49.0	54.6	56.5	58.4	58.4	56.5	56.5	52.7
155°	20.7	24.5	30.1	35.8	41.4	43.3	45.2	45.2	43.3	43.3	41.4
157.5°	13.2	17.0	20.7	24.5	30.1	32.0	33.9	33.9	33.9	32.0	30.1
160°	7.5	9.4	11.3	15.1	18.8	20.7	22.6	22.6	22.6	22.6	20.7
162.5°	5.7	5.7	5.7	7.5	9.4	11.3	13.2	13.2	13.2	13.2	11.3
165°	3.8	3.8	3.8	3.8	3.8	5.7	7.5	7.5	7.5	7.5	7.5
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-LD5-88SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1785.4	1785.4	1785.4	1785.4	1785.4	1785.4	1785.4	1785.4	1785.4	1785.4	1785.4
2.5°	1776.0	1776.0	1777.9	1774.1	1762.8	1764.7	1764.7	1772.3	1776.0	1777.9	1787.3
5°	1772.3	1772.3	1776.0	1770.4	1761.0	1761.0	1761.0	1768.5	1770.4	1774.1	1781.7
7.5°	1766.6	1766.6	1768.5	1762.8	1751.5	1751.5	1749.6	1757.2	1761.0	1762.8	1770.4
10°	1757.2	1757.2	1759.1	1753.4	1740.2	1740.2	1738.3	1744.0	1745.9	1749.6	1755.3
12.5°	1744.0	1744.0	1744.0	1738.3	1725.2	1723.3	1721.4	1727.0	1727.0	1728.9	1734.6
15°	1732.7	1728.9	1728.9	1723.3	1710.1	1706.3	1702.6	1704.4	1708.2	1706.3	1710.1
17.5°	1719.5	1715.7	1712.0	1706.3	1689.4	1683.7	1680.0	1681.8	1680.0	1678.1	1681.8
20°	1704.4	1698.8	1696.9	1687.5	1670.5	1661.1	1653.6	1649.8	1651.7	1646.1	1647.9
22.5°	1687.5	1680.0	1676.2	1664.9	1647.9	1636.6	1627.2	1619.7	1617.8	1610.3	1612.2
25°	1666.8	1657.4	1651.7	1642.3	1623.5	1610.3	1599.0	1587.7	1582.0	1572.6	1570.7
27.5°	1642.3	1632.9	1625.3	1615.9	1597.1	1580.1	1567.0	1551.9	1544.4	1533.1	1527.4
30°	1617.8	1606.5	1595.2	1587.7	1567.0	1548.1	1527.4	1514.2	1502.9	1489.7	1480.3
32.5°	1587.7	1576.4	1565.1	1553.8	1534.9	1512.3	1495.4	1474.7	1461.5	1446.4	1435.1
35°	1557.5	1542.5	1531.2	1516.1	1499.2	1472.8	1452.1	1431.4	1414.4	1397.5	1384.3
37.5°	1523.6	1512.3	1495.4	1482.2	1461.5	1435.1	1412.5	1386.2	1371.1	1348.5	1331.5
40°	1491.6	1478.4	1461.5	1444.5	1423.8	1393.7	1369.2	1339.1	1322.1	1295.8	1278.8
42.5°	1459.6	1440.8	1423.8	1405.0	1382.4	1354.1	1324.0	1293.9	1271.3	1246.8	1222.3
45°	1423.8	1403.1	1382.4	1361.7	1339.1	1310.8	1278.8	1246.8	1218.5	1195.9	1165.8
47.5°	1386.2	1365.4	1341.0	1318.4	1293.9	1265.6	1231.7	1197.8	1167.7	1141.3	1109.3
50°	1348.5	1327.8	1301.4	1276.9	1248.7	1220.4	1184.6	1145.1	1113.1	1079.2	1050.9
52.5°	1308.9	1288.2	1263.7	1231.7	1201.6	1173.3	1135.7	1094.2	1058.5	1030.2	994.4
55°	1269.4	1248.7	1220.4	1188.4	1158.3	1122.5	1086.7	1045.3	1005.7	971.8	936.0
57.5°	1228.0	1209.1	1177.1	1150.7	1113.1	1075.4	1037.7	998.2	954.9	915.3	873.9
60°	1186.5	1165.8	1135.7	1103.7	1066.0	1028.3	988.8	945.5	900.3	856.9	819.3
62.5°	1148.9	1122.5	1094.2	1060.3	1020.8	985.0	939.8	892.7	847.5	802.3	757.1
65°	1105.5	1077.3	1050.9	1017.0	975.6	934.2	889.0	841.9	792.9	743.9	698.7
67.5°	1062.2	1034.0	1005.7	971.8	928.5	885.2	838.1	791.0	736.4	689.3	636.6
70°	1018.9	996.3	960.5	924.7	885.2	838.1	791.0	740.2	683.7	632.8	578.2
72.5°	975.6	953.0	917.2	879.5	841.9	792.9	742.0	691.2	638.5	580.1	521.7
75°	934.2	905.9	873.9	838.1	798.5	747.7	696.8	644.1	582.0	527.3	467.1
77.5°	894.6	868.2	836.2	796.7	753.3	704.4	651.6	597.0	534.9	476.5	410.6
80°	851.3	824.9	792.9	753.3	710.0	662.9	606.4	549.9	489.7	425.6	357.8
82.5°	809.8	785.4	749.6	713.8	666.7	619.6	563.1	506.6	442.6	380.4	314.5
85°	766.5	742.0	708.1	670.5	625.3	574.4	521.7	465.2	401.2	337.1	271.2
87.5°	728.9	700.6	666.7	629.0	583.8	534.9	484.0	423.8	361.6	299.5	231.7
90°	689.3	662.9	629.0	591.4	546.2	497.2	444.5	388.0	327.7	263.7	199.6
92.5°	655.4	627.2	595.1	557.5	512.3	465.2	412.5	356.0	297.6	235.4	173.3
95°	621.5	593.3	563.1	525.5	480.3	433.2	380.4	325.8	269.3	209.1	150.7
97.5°	583.8	559.4	529.2	493.4	448.2	403.0	352.2	299.5	244.8	186.5	131.8
100°	553.7	525.5	497.2	459.5	418.1	374.8	323.9	273.1	220.4	165.7	114.9
102.5°	519.8	493.4	465.2	429.4	388.0	344.7	297.6	248.6	199.6	148.8	99.8
105°	487.8	463.3	433.2	399.3	359.7	318.3	273.1	227.9	180.8	131.8	88.5
107.5°	455.8	431.3	403.0	371.0	333.4	291.9	250.5	205.3	162.0	118.7	79.1
110°	423.8	401.2	374.8	342.8	307.0	269.3	229.8	188.3	145.0	105.5	69.7



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-88SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	395.5	372.9	346.5	316.4	282.5	246.7	209.1	169.5	130.0	94.2	60.3
115°	367.3	346.5	320.2	293.8	259.9	226.0	190.2	152.6	116.8	84.8	52.7
117.5°	339.0	318.3	293.8	267.4	237.3	205.3	171.4	135.6	105.5	75.3	47.1
120°	310.8	291.9	269.3	244.8	218.5	186.5	152.6	122.4	94.2	65.9	41.4
122.5°	284.4	267.4	246.7	224.1	195.9	165.7	137.5	111.1	84.8	58.4	33.9
125°	259.9	243.0	224.1	201.5	175.2	148.8	124.3	99.8	73.5	50.9	28.3
127.5°	235.4	218.5	199.6	178.9	158.2	133.7	111.1	88.5	65.9	45.2	24.5
130°	210.9	195.9	178.9	162.0	141.3	118.7	99.8	77.2	56.5	35.8	20.7
132.5°	186.5	175.2	160.1	143.1	124.3	107.4	86.6	67.8	49.0	32.0	18.8
135°	165.7	154.4	141.3	126.2	111.1	94.2	75.3	58.4	41.4	26.4	15.1
137.5°	146.9	137.5	124.3	111.1	97.9	81.0	65.9	49.0	33.9	22.6	11.3
140°	130.0	120.5	109.2	96.1	84.8	69.7	54.6	39.6	30.1	18.8	9.4
142.5°	113.0	103.6	94.2	82.9	71.6	58.4	45.2	33.9	24.5	15.1	9.4
145°	96.1	88.5	79.1	69.7	58.4	47.1	37.7	28.3	18.8	11.3	7.5
147.5°	79.1	73.5	64.0	56.5	47.1	37.7	30.1	22.6	15.1	9.4	5.7
150°	64.0	58.4	50.9	43.3	37.7	30.1	24.5	17.0	11.3	9.4	5.7
152.5°	49.0	45.2	39.6	35.8	30.1	22.6	17.0	13.2	9.4	7.5	3.8
155°	39.6	35.8	32.0	26.4	22.6	17.0	13.2	9.4	7.5	5.7	3.8
157.5°	28.3	26.4	22.6	18.8	15.1	11.3	9.4	9.4	5.7	3.8	1.9
160°	18.8	17.0	15.1	11.3	9.4	9.4	7.5	5.7	3.8	3.8	1.9
162.5°	11.3	9.4	9.4	9.4	7.5	7.5	5.7	3.8	3.8	1.9	1.9
165°	7.5	7.5	7.5	5.7	5.7	5.7	3.8	1.9	1.9	1.9	1.9
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-LD5-88SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1785.4	1785.4	1785.4	1785.4	1785.4	1785.4	1785.4	1785.4	1785.4	1785.4	1785.4
2.5°	1787.3	1781.7	1789.2	1802.4	1804.3	1802.4	1798.6	1804.3	1811.8	1809.9	1796.7
5°	1783.6	1776.0	1783.6	1796.7	1796.7	1794.9	1793.0	1798.6	1806.2	1804.3	1793.0
7.5°	1772.3	1764.7	1772.3	1783.6	1785.4	1781.7	1781.7	1787.3	1794.9	1793.0	1783.6
10°	1757.2	1749.6	1753.4	1766.6	1770.4	1766.6	1766.6	1772.3	1781.7	1779.8	1768.5
12.5°	1734.6	1728.9	1732.7	1744.0	1747.8	1745.9	1744.0	1751.5	1761.0	1761.0	1749.6
15°	1710.1	1702.6	1706.3	1719.5	1721.4	1717.6	1719.5	1725.2	1736.5	1736.5	1727.0
17.5°	1681.8	1672.4	1678.1	1687.5	1689.4	1689.4	1689.4	1696.9	1710.1	1708.2	1700.7
20°	1649.8	1636.6	1640.4	1649.8	1653.6	1653.6	1653.6	1666.8	1676.2	1676.2	1668.7
22.5°	1612.2	1602.7	1602.7	1612.2	1617.8	1615.9	1615.9	1627.2	1640.4	1638.5	1638.5
25°	1568.8	1561.3	1557.5	1568.8	1570.7	1572.6	1576.4	1587.7	1602.7	1602.7	1604.6
27.5°	1523.6	1516.1	1514.2	1523.6	1525.5	1527.4	1531.2	1544.4	1559.4	1561.3	1565.1
30°	1480.3	1469.0	1465.3	1472.8	1476.6	1478.4	1478.4	1499.2	1512.3	1518.0	1525.5
32.5°	1429.5	1418.2	1408.8	1421.9	1423.8	1427.6	1429.5	1450.2	1465.3	1474.7	1486.0
35°	1378.6	1359.8	1356.0	1365.4	1369.2	1371.1	1374.9	1397.5	1418.2	1425.7	1440.8
37.5°	1322.1	1308.9	1297.6	1307.1	1310.8	1312.7	1324.0	1344.7	1365.4	1376.7	1391.8
40°	1269.4	1252.4	1243.0	1248.7	1252.4	1254.3	1267.5	1290.1	1314.6	1327.8	1346.6
42.5°	1211.0	1188.4	1180.9	1186.5	1188.4	1194.1	1205.4	1235.5	1260.0	1278.8	1293.9
45°	1152.6	1135.7	1118.7	1124.4	1126.3	1130.0	1147.0	1179.0	1205.4	1228.0	1244.9
47.5°	1092.4	1071.6	1054.7	1058.5	1066.0	1067.9	1086.7	1124.4	1148.9	1173.3	1195.9
50°	1032.1	1003.8	990.7	990.7	994.4	1003.8	1028.3	1066.0	1092.4	1120.6	1145.1
52.5°	969.9	943.6	928.5	930.4	934.2	945.5	968.1	1005.7	1035.9	1066.0	1096.1
55°	907.8	879.5	864.5	860.7	864.5	879.5	905.9	945.5	975.6	1011.4	1043.4
57.5°	845.6	811.7	798.5	792.9	796.7	815.5	841.9	883.3	921.0	954.9	992.5
60°	777.8	751.5	728.9	715.7	725.1	749.6	777.8	821.1	860.7	898.4	939.8
62.5°	719.4	685.5	661.1	647.9	657.3	678.0	717.6	759.0	802.3	845.6	887.1
65°	653.5	619.6	591.4	578.2	587.6	612.1	651.6	696.8	743.9	787.2	836.2
67.5°	589.5	553.7	519.8	506.6	517.9	544.3	587.6	638.5	689.3	734.5	787.2
70°	527.3	487.8	452.0	442.6	450.1	485.9	527.3	578.2	630.9	683.7	738.3
72.5°	470.8	421.9	384.2	372.9	382.3	421.9	469.0	521.7	578.2	634.7	693.1
75°	404.9	359.7	318.3	305.1	316.4	352.2	410.6	467.1	527.3	587.6	642.2
77.5°	352.2	299.5	256.1	235.4	254.3	299.5	356.0	416.2	478.4	540.5	602.7
80°	297.6	243.0	195.9	173.3	194.0	243.0	299.5	365.4	435.1	497.2	553.7
82.5°	248.6	190.2	141.3	116.8	139.4	194.0	256.1	322.1	389.9	452.0	517.9
85°	203.4	143.1	92.3	65.9	97.9	146.9	212.8	280.6	350.3	414.3	478.4
87.5°	165.7	107.4	56.5	28.3	60.3	114.9	177.0	244.8	314.5	378.6	438.8
90°	135.6	77.2	30.1	3.8	35.8	86.6	146.9	212.8	278.7	344.7	404.9
92.5°	111.1	58.4	17.0	1.9	22.6	69.7	126.2	188.3	252.4	316.4	374.8
95°	92.3	45.2	11.3	1.9	17.0	54.6	107.4	167.6	227.9	290.0	348.4
97.5°	79.1	37.7	9.4	1.9	13.2	47.1	92.3	148.8	207.2	265.6	322.1
100°	67.8	30.1	7.5	1.9	11.3	39.6	81.0	131.8	186.5	243.0	297.6
102.5°	58.4	24.5	5.7	1.9	9.4	33.9	71.6	118.7	167.6	222.2	275.0
105°	50.9	20.7	5.7	1.9	7.5	30.1	64.0	105.5	154.4	203.4	254.3
107.5°	43.3	17.0	3.8	1.9	5.7	24.5	56.5	96.1	139.4	186.5	233.5
110°	37.7	15.1	3.8	1.9	5.7	22.6	49.0	86.6	126.2	169.5	214.7



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-88SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	32.0	11.3	3.8	1.9	3.8	18.8	43.3	77.2	114.9	154.4	197.8
115°	28.3	9.4	1.9	1.9	3.8	17.0	39.6	69.7	103.6	141.3	180.8
117.5°	22.6	7.5	1.9	1.9	1.9	13.2	33.9	62.2	94.2	130.0	165.7
120°	18.8	7.5	1.9	1.9	1.9	11.3	30.1	54.6	84.8	116.8	150.7
122.5°	17.0	5.7	1.9	1.9	1.9	9.4	26.4	49.0	75.3	105.5	137.5
125°	15.1	5.7	1.9	1.9	1.9	7.5	22.6	43.3	67.8	94.2	124.3
127.5°	11.3	5.7	1.9	1.9	1.9	5.7	20.7	37.7	60.3	84.8	111.1
130°	9.4	3.8	1.9	1.9	1.9	5.7	17.0	33.9	52.7	75.3	99.8
132.5°	7.5	3.8	1.9	1.9	1.9	3.8	13.2	26.4	45.2	65.9	88.5
135°	7.5	3.8	1.9	1.9	1.9	3.8	9.4	22.6	37.7	56.5	75.3
137.5°	7.5	1.9	1.9	1.9	1.9	3.8	7.5	17.0	30.1	45.2	62.2
140°	5.7	1.9	1.9	1.9	1.9	1.9	5.7	13.2	24.5	37.7	52.7
142.5°	5.7	1.9	1.9	1.9	1.9	1.9	5.7	9.4	18.8	30.1	41.4
145°	3.8	1.9	1.9	1.9	1.9	1.9	3.8	7.5	15.1	22.6	33.9
147.5°	3.8	1.9	1.9	1.9	1.9	1.9	3.8	5.7	11.3	18.8	26.4
150°	3.8	1.9	1.9	1.9	1.9	1.9	3.8	5.7	7.5	13.2	20.7
152.5°	1.9	1.9	1.9	1.9	1.9	1.9	3.8	3.8	5.7	9.4	13.2
155°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	3.8	5.7	7.5	9.4
157.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	3.8	3.8	5.7	7.5
160°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	3.8	3.8	5.7
162.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	3.8	3.8
165°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
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-LD5-88SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1785.4	1785.4	1785.4	1785.4	1785.4	1785.4	1785.4	1785.4	1785.4	1785.4	1785.4
2.5°	1791.1	1777.9	1781.7	1779.8	1783.6	1789.2	1789.2	1787.3	1787.3	1783.6	1779.8
5°	1787.3	1774.1	1779.8	1777.9	1781.7	1787.3	1787.3	1785.4	1785.4	1779.8	1777.9
7.5°	1776.0	1766.6	1770.4	1770.4	1774.1	1779.8	1779.8	1777.9	1777.9	1772.3	1770.4
10°	1764.7	1753.4	1759.1	1759.1	1762.8	1770.4	1770.4	1768.5	1768.5	1762.8	1761.0
12.5°	1745.9	1734.6	1744.0	1745.9	1749.6	1757.2	1755.3	1755.3	1755.3	1749.6	1747.8
15°	1723.3	1715.7	1725.2	1727.0	1732.7	1742.1	1742.1	1742.1	1742.1	1736.5	1734.6
17.5°	1698.8	1693.1	1702.6	1706.3	1713.9	1723.3	1723.3	1725.2	1727.0	1723.3	1721.4
20°	1670.5	1666.8	1676.2	1683.7	1695.0	1704.4	1708.2	1710.1	1713.9	1710.1	1708.2
22.5°	1638.5	1638.5	1651.7	1659.2	1672.4	1681.8	1687.5	1693.1	1696.9	1693.1	1691.3
25°	1602.7	1608.4	1621.6	1634.8	1649.8	1659.2	1664.9	1672.4	1676.2	1674.3	1672.4
27.5°	1568.8	1576.4	1593.3	1606.5	1619.7	1634.8	1640.4	1649.8	1653.6	1653.6	1651.7
30°	1529.3	1540.6	1559.4	1574.5	1591.4	1606.5	1614.0	1623.5	1629.1	1625.3	1627.2
32.5°	1491.6	1510.5	1525.5	1542.5	1561.3	1576.4	1585.8	1597.1	1602.7	1600.9	1602.7
35°	1450.2	1469.0	1489.7	1506.7	1529.3	1544.4	1557.5	1567.0	1574.5	1572.6	1572.6
37.5°	1405.0	1429.5	1450.2	1472.8	1493.5	1510.5	1523.6	1534.9	1542.5	1542.5	1542.5
40°	1361.7	1388.0	1408.8	1435.1	1461.5	1476.6	1491.6	1502.9	1510.5	1512.3	1514.2
42.5°	1314.6	1342.8	1367.3	1395.6	1421.9	1440.8	1457.7	1470.9	1478.4	1482.2	1480.3
45°	1271.3	1297.6	1325.9	1357.9	1382.4	1401.2	1421.9	1437.0	1444.5	1446.4	1448.3
47.5°	1222.3	1252.4	1284.5	1316.5	1341.0	1365.4	1384.3	1399.3	1406.9	1412.5	1412.5
50°	1175.2	1207.2	1243.0	1276.9	1303.3	1327.8	1346.6	1363.6	1373.0	1376.7	1378.6
52.5°	1131.9	1162.0	1199.7	1233.6	1260.0	1284.5	1308.9	1327.8	1337.2	1341.0	1341.0
55°	1079.2	1116.8	1158.3	1190.3	1218.5	1246.8	1271.3	1290.1	1299.5	1305.2	1308.9
57.5°	1030.2	1069.8	1113.1	1147.0	1180.9	1207.2	1229.8	1254.3	1261.9	1269.4	1271.3
60°	983.1	1022.7	1064.1	1101.8	1135.7	1163.9	1190.3	1211.0	1224.2	1228.0	1231.7
62.5°	934.2	975.6	1018.9	1056.6	1092.4	1126.3	1150.7	1169.6	1184.6	1190.3	1194.1
65°	887.1	930.4	973.7	1013.3	1050.9	1084.8	1109.3	1128.1	1143.2	1152.6	1154.5
67.5°	836.2	883.3	928.5	969.9	1007.6	1043.4	1067.9	1086.7	1101.8	1113.1	1115.0
70°	789.1	838.1	883.3	928.5	966.2	1002.0	1028.3	1047.2	1064.1	1071.6	1075.4
72.5°	743.9	794.8	841.9	887.1	924.7	960.5	988.8	1007.6	1024.6	1034.0	1035.9
75°	700.6	751.5	802.3	845.6	885.2	921.0	949.2	969.9	985.0	994.4	998.2
77.5°	657.3	710.0	760.9	804.2	845.6	881.4	905.9	930.4	945.5	956.8	956.8
80°	614.0	668.6	721.3	764.6	806.1	838.1	866.3	890.8	905.9	917.2	917.2
82.5°	576.3	629.0	679.9	723.2	764.6	800.4	828.7	851.3	868.2	875.8	877.6
85°	533.0	591.4	638.5	685.5	725.1	759.0	787.2	811.7	826.8	834.3	838.1
87.5°	497.2	553.7	604.6	646.0	685.5	719.4	751.5	772.2	787.2	796.7	800.4
90°	463.3	517.9	568.8	610.2	651.6	683.7	713.8	734.5	751.5	759.0	762.8
92.5°	433.2	487.8	536.8	578.2	617.7	653.5	681.8	702.5	717.6	725.1	730.7
95°	404.9	457.7	504.7	549.9	587.6	619.6	649.8	670.5	687.4	693.1	698.7
97.5°	376.7	427.5	474.6	517.9	557.5	587.6	615.9	636.6	649.8	659.2	664.8
100°	352.2	401.2	446.4	487.8	525.5	553.7	583.8	602.7	615.9	623.4	630.9
102.5°	325.8	374.8	418.1	457.7	497.2	523.6	551.8	570.7	582.0	595.1	595.1
105°	303.2	348.4	391.7	429.4	463.3	495.3	519.8	538.6	551.8	561.2	561.2
107.5°	278.7	323.9	365.4	404.9	436.9	467.1	489.7	506.6	521.7	527.3	533.0
110°	259.9	299.5	340.9	378.6	408.7	436.9	459.5	478.4	491.6	497.2	501.0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-88SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	237.3	278.7	316.4	352.2	382.3	408.7	431.3	446.4	459.5	467.1	469.0
115°	218.5	258.0	291.9	325.8	357.8	380.4	401.2	416.2	429.4	435.1	438.8
117.5°	201.5	237.3	271.2	299.5	329.6	354.1	374.8	388.0	399.3	406.8	410.6
120°	184.6	218.5	248.6	276.9	305.1	327.7	346.5	359.7	372.9	378.6	378.6
122.5°	167.6	199.6	227.9	254.3	280.6	301.3	322.1	333.4	344.7	350.3	350.3
125°	152.6	182.7	209.1	233.5	258.0	276.9	293.8	307.0	318.3	322.1	322.1
127.5°	137.5	165.7	190.2	212.8	233.5	252.4	269.3	282.5	291.9	295.7	295.7
130°	124.3	148.8	171.4	194.0	214.7	229.8	246.7	258.0	263.7	269.3	271.2
132.5°	111.1	133.7	154.4	173.3	194.0	209.1	222.2	233.5	239.2	244.8	246.7
135°	97.9	118.7	137.5	156.3	173.3	188.3	199.6	209.1	216.6	220.4	222.2
137.5°	82.9	105.5	122.4	137.5	156.3	167.6	180.8	186.5	194.0	197.8	197.8
140°	69.7	86.6	105.5	120.5	135.6	146.9	158.2	167.6	173.3	175.2	175.2
142.5°	56.5	71.6	86.6	105.5	118.7	128.1	139.4	146.9	150.7	152.6	154.4
145°	45.2	56.5	69.7	86.6	101.7	113.0	118.7	126.2	130.0	131.8	133.7
147.5°	33.9	45.2	56.5	67.8	82.9	94.2	99.8	107.4	111.1	113.0	113.0
150°	26.4	33.9	41.4	52.7	64.0	77.2	84.8	90.4	92.3	94.2	94.2
152.5°	18.8	26.4	32.0	39.6	47.1	58.4	69.7	73.5	75.3	77.2	77.2
155°	13.2	18.8	22.6	28.3	33.9	43.3	52.7	58.4	60.3	62.2	62.2
157.5°	9.4	13.2	15.1	20.7	24.5	28.3	35.8	45.2	47.1	47.1	47.1
160°	5.7	7.5	9.4	13.2	15.1	18.8	22.6	28.3	33.9	33.9	33.9
162.5°	3.8	5.7	5.7	7.5	7.5	11.3	13.2	15.1	20.7	22.6	22.6
165°	1.9	3.8	3.8	3.8	3.8	3.8	5.7	5.7	9.4	11.3	11.3
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-LD5-88SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1785.4	1785.4	1785.4	1785.4	1785.4	1785.4	1785.4	1785.4	1785.4	1785.4	1785.4
2.5°	1781.7	1785.4	1783.6	1783.6	1783.6	1787.3	1783.6	1766.6	1770.4	1774.1	1777.9
5°	1779.8	1781.7	1781.7	1779.8	1779.8	1783.6	1779.8	1762.8	1766.6	1770.4	1772.3
7.5°	1772.3	1774.1	1774.1	1774.1	1772.3	1776.0	1770.4	1755.3	1755.3	1759.1	1761.0
10°	1762.8	1766.6	1764.7	1762.8	1762.8	1762.8	1759.1	1742.1	1742.1	1744.0	1745.9
12.5°	1751.5	1751.5	1751.5	1749.6	1747.8	1747.8	1744.0	1727.0	1725.2	1728.9	1727.0
15°	1736.5	1740.2	1736.5	1734.6	1730.8	1730.8	1725.2	1708.2	1704.4	1706.3	1704.4
17.5°	1723.3	1725.2	1721.4	1717.6	1713.9	1712.0	1706.3	1687.5	1681.8	1683.7	1680.0
20°	1710.1	1710.1	1706.3	1702.6	1696.9	1691.3	1683.7	1664.9	1655.5	1655.5	1647.9
22.5°	1693.1	1693.1	1689.4	1683.7	1678.1	1670.5	1663.0	1644.2	1629.1	1625.3	1619.7
25°	1674.3	1672.4	1670.5	1664.9	1653.6	1646.1	1638.5	1617.8	1600.9	1593.3	1583.9
27.5°	1651.7	1651.7	1646.1	1640.4	1629.1	1619.7	1610.3	1591.4	1568.8	1559.4	1546.2
30°	1627.2	1627.2	1621.6	1614.0	1602.7	1591.4	1580.1	1557.5	1534.9	1521.8	1506.7
32.5°	1602.7	1600.9	1595.2	1587.7	1576.4	1559.4	1550.0	1527.4	1501.0	1486.0	1465.3
35°	1572.6	1570.7	1565.1	1555.7	1540.6	1527.4	1512.3	1491.6	1461.5	1442.7	1420.1
37.5°	1542.5	1540.6	1536.8	1523.6	1508.6	1493.5	1474.7	1454.0	1425.7	1401.2	1378.6
40°	1512.3	1510.5	1502.9	1493.5	1474.7	1455.8	1437.0	1416.3	1386.2	1357.9	1333.4
42.5°	1480.3	1478.4	1469.0	1457.7	1437.0	1418.2	1395.6	1373.0	1342.8	1308.9	1284.5
45°	1448.3	1444.5	1435.1	1421.9	1399.3	1378.6	1356.0	1329.7	1299.5	1267.5	1235.5
47.5°	1414.4	1408.8	1399.3	1380.5	1361.7	1339.1	1312.7	1284.5	1254.3	1218.5	1184.6
50°	1376.7	1373.0	1361.7	1344.7	1322.1	1299.5	1269.4	1241.1	1205.4	1171.5	1130.0
52.5°	1341.0	1333.4	1324.0	1305.2	1282.6	1258.1	1226.1	1192.2	1156.4	1124.4	1081.1
55°	1303.3	1299.5	1286.3	1271.3	1243.0	1214.8	1184.6	1148.9	1109.3	1071.6	1030.2
57.5°	1267.5	1260.0	1248.7	1228.0	1203.5	1175.2	1143.2	1105.5	1062.2	1022.7	977.5
60°	1231.7	1220.4	1207.2	1188.4	1162.0	1131.9	1098.0	1058.5	1015.1	971.8	924.7
62.5°	1192.2	1182.8	1167.7	1148.9	1122.5	1090.5	1054.7	1013.3	971.8	926.6	875.8
65°	1152.6	1143.2	1128.1	1109.3	1082.9	1047.2	1009.5	968.1	921.0	877.6	823.0
67.5°	1113.1	1103.7	1086.7	1066.0	1039.6	1005.7	966.2	922.9	875.8	828.7	772.2
70°	1073.5	1062.2	1047.2	1024.6	998.2	962.4	922.9	877.6	830.6	779.7	723.2
72.5°	1034.0	1024.6	1005.7	985.0	956.8	921.0	881.4	836.2	787.2	734.5	678.0
75°	994.4	983.1	969.9	945.5	915.3	881.4	840.0	794.8	742.0	691.2	632.8
77.5°	954.9	945.5	928.5	904.0	875.8	840.0	798.5	753.3	700.6	647.9	585.7
80°	915.3	904.0	890.8	868.2	836.2	800.4	757.1	711.9	659.2	604.6	542.4
82.5°	875.8	864.5	849.4	826.8	796.7	760.9	719.4	670.5	617.7	561.2	502.9
85°	836.2	826.8	809.8	787.2	755.2	719.4	678.0	634.7	578.2	521.7	463.3
87.5°	796.7	787.2	770.3	747.7	717.6	681.8	640.3	595.1	540.5	487.8	423.8
90°	759.0	751.5	734.5	711.9	681.8	646.0	608.3	559.4	506.6	453.9	393.6
92.5°	725.1	717.6	702.5	679.9	653.5	614.0	576.3	529.2	476.5	421.9	363.5
95°	695.0	685.5	670.5	649.8	617.7	583.8	546.2	499.1	448.2	393.6	337.1
97.5°	661.1	651.6	636.6	614.0	587.6	551.8	514.2	469.0	418.1	367.3	310.8
100°	627.2	617.7	600.8	582.0	555.6	519.8	484.0	438.8	391.7	342.8	288.2
102.5°	593.3	583.8	568.8	549.9	523.6	491.6	455.8	412.5	365.4	316.4	265.6
105°	561.2	551.8	536.8	517.9	493.4	461.4	423.8	386.1	340.9	293.8	244.8
107.5°	529.2	519.8	506.6	487.8	463.3	433.2	397.4	357.8	316.4	271.2	224.1
110°	497.2	489.7	474.6	457.7	433.2	403.0	371.0	333.4	291.9	250.5	205.3



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-88SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	467.1	459.5	444.5	425.6	404.9	376.7	344.7	308.9	269.3	229.8	186.5
115°	436.9	427.5	414.3	397.4	376.7	350.3	320.2	288.2	248.6	210.9	171.4
117.5°	406.8	399.3	386.1	369.1	350.3	323.9	295.7	265.6	227.9	192.1	156.3
120°	376.7	371.0	357.8	342.8	323.9	299.5	273.1	243.0	209.1	175.2	141.3
122.5°	348.4	342.8	329.6	316.4	297.6	275.0	250.5	222.2	192.1	160.1	130.0
125°	322.1	314.5	303.2	290.0	273.1	252.4	227.9	201.5	173.3	145.0	116.8
127.5°	293.8	288.2	280.6	265.6	248.6	229.8	207.2	184.6	158.2	131.8	105.5
130°	271.2	263.7	254.3	243.0	227.9	209.1	188.3	165.7	143.1	118.7	92.3
132.5°	244.8	237.3	229.8	218.5	205.3	188.3	169.5	148.8	128.1	105.5	82.9
135°	220.4	214.7	207.2	195.9	182.7	169.5	150.7	131.8	113.0	92.3	73.5
137.5°	197.8	192.1	184.6	177.0	163.9	150.7	133.7	116.8	99.8	81.0	64.0
140°	175.2	171.4	163.9	156.3	145.0	131.8	116.8	101.7	86.6	69.7	54.6
142.5°	152.6	148.8	143.1	135.6	126.2	114.9	101.7	88.5	73.5	60.3	47.1
145°	131.8	130.0	124.3	116.8	109.2	97.9	86.6	75.3	62.2	50.9	37.7
147.5°	111.1	109.2	105.5	99.8	92.3	82.9	73.5	62.2	52.7	41.4	30.1
150°	92.3	90.4	88.5	81.0	77.2	67.8	60.3	50.9	43.3	32.0	24.5
152.5°	75.3	75.3	71.6	65.9	62.2	54.6	49.0	41.4	33.9	26.4	18.8
155°	60.3	58.4	56.5	52.7	49.0	43.3	37.7	32.0	26.4	18.8	13.2
157.5°	47.1	45.2	43.3	39.6	35.8	33.9	28.3	22.6	17.0	13.2	9.4
160°	33.9	32.0	30.1	28.3	26.4	22.6	18.8	15.1	11.3	7.5	5.7
162.5°	22.6	20.7	20.7	18.8	17.0	13.2	11.3	9.4	7.5	5.7	3.8
165°	11.3	11.3	9.4	9.4	7.5	5.7	5.7	5.7	3.8	3.8	1.9
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-LD5-88SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1785.4	1785.4	1785.4	1785.4	1785.4	1785.4	1785.4
2.5°	1776.0	1776.0	1783.6	1781.7	1776.0	1787.3	1800.5
5°	1770.4	1770.4	1776.0	1776.0	1770.4	1781.7	1793.0
7.5°	1761.0	1759.1	1764.7	1764.7	1757.2	1766.6	1779.8
10°	1744.0	1742.1	1747.8	1747.8	1740.2	1749.6	1761.0
12.5°	1725.2	1721.4	1727.0	1725.2	1717.6	1727.0	1738.3
15°	1700.7	1698.8	1702.6	1698.8	1691.3	1700.7	1712.0
17.5°	1676.2	1670.5	1672.4	1672.4	1659.2	1668.7	1678.1
20°	1644.2	1636.6	1638.5	1636.6	1627.2	1632.9	1644.2
22.5°	1612.2	1600.9	1600.9	1599.0	1587.7	1595.2	1604.6
25°	1572.6	1559.4	1559.4	1557.5	1544.4	1550.0	1559.4
27.5°	1533.1	1519.9	1514.2	1512.3	1499.2	1499.2	1512.3
30°	1491.6	1472.8	1469.0	1463.4	1450.2	1450.2	1461.5
32.5°	1452.1	1425.7	1418.2	1410.6	1397.5	1395.6	1408.8
35°	1399.3	1378.6	1365.4	1357.9	1342.8	1339.1	1350.4
37.5°	1356.0	1329.7	1310.8	1301.4	1286.3	1280.7	1295.8
40°	1308.9	1280.7	1256.2	1250.6	1228.0	1220.4	1233.6
42.5°	1256.2	1226.1	1201.6	1190.3	1173.3	1165.8	1167.7
45°	1203.5	1171.5	1145.1	1130.0	1113.1	1099.9	1107.4
47.5°	1148.9	1120.6	1088.6	1066.0	1045.3	1035.9	1039.6
50°	1094.2	1060.3	1030.2	1005.7	981.2	969.9	977.5
52.5°	1039.6	1003.8	969.9	943.6	915.3	904.0	905.9
55°	986.9	949.2	909.7	881.4	855.0	838.1	834.3
57.5°	934.2	892.7	851.3	819.3	785.4	770.3	764.6
60°	877.6	834.3	791.0	753.3	717.6	700.6	693.1
62.5°	824.9	777.8	728.9	689.3	653.5	630.9	625.3
65°	774.1	719.4	670.5	625.3	585.7	561.2	553.7
67.5°	719.4	662.9	610.2	561.2	523.6	491.6	487.8
70°	668.6	608.3	549.9	499.1	457.7	425.6	410.6
72.5°	617.7	555.6	495.3	440.7	388.0	357.8	346.5
75°	568.8	504.7	440.7	384.2	325.8	290.0	278.7
77.5°	523.6	457.7	389.9	327.7	273.1	227.9	212.8
80°	480.3	412.5	340.9	276.9	218.5	169.5	152.6
82.5°	435.1	371.0	297.6	229.8	169.5	118.7	97.9
85°	395.5	331.5	258.0	190.2	130.0	75.3	52.7
87.5°	363.5	293.8	227.9	160.1	97.9	43.3	15.1
90°	331.5	263.7	197.8	131.8	73.5	24.5	1.9
92.5°	303.2	239.2	173.3	113.0	56.5	17.0	1.9
95°	276.9	214.7	152.6	94.2	45.2	11.3	1.9
97.5°	252.4	194.0	135.6	81.0	37.7	9.4	1.9
100°	231.7	175.2	120.5	71.6	32.0	7.5	1.9
102.5°	210.9	158.2	107.4	62.2	28.3	5.7	1.9
105°	194.0	143.1	96.1	56.5	24.5	5.7	1.9
107.5°	177.0	130.0	86.6	49.0	20.7	3.8	1.9
110°	160.1	118.7	77.2	43.3	18.8	3.8	1.9



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-88SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	146.9	107.4	69.7	39.6	15.1	3.8	1.9
115°	133.7	96.1	62.2	33.9	13.2	1.9	1.9
117.5°	120.5	86.6	54.6	30.1	11.3	1.9	1.9
120°	109.2	77.2	49.0	26.4	9.4	1.9	1.9
122.5°	97.9	69.7	43.3	22.6	7.5	1.9	1.9
125°	88.5	62.2	37.7	18.8	5.7	1.9	1.9
127.5°	79.1	54.6	33.9	17.0	5.7	1.9	1.9
130°	69.7	49.0	28.3	13.2	3.8	1.9	1.9
132.5°	62.2	41.4	24.5	11.3	3.8	1.9	1.9
135°	54.6	35.8	20.7	7.5	3.8	1.9	1.9
137.5°	47.1	30.1	17.0	5.7	1.9	1.9	1.9
140°	39.6	26.4	13.2	5.7	1.9	1.9	1.9
142.5°	33.9	20.7	9.4	3.8	1.9	1.9	1.9
145°	26.4	17.0	7.5	3.8	1.9	1.9	1.9
147.5°	20.7	13.2	5.7	3.8	1.9	1.9	1.9
150°	15.1	9.4	5.7	1.9	1.9	1.9	1.9
152.5°	11.3	7.5	3.8	1.9	1.9	1.9	1.9
155°	7.5	5.7	3.8	1.9	1.9	1.9	1.9
157.5°	5.7	3.8	1.9	1.9	1.9	1.9	1.9
160°	3.8	1.9	1.9	1.9	1.9	1.9	1.9
162.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9
165°	1.9	1.9	1.9	1.9	1.9	1.9	1.9
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)