

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-LD5-81SL-LW-UNV-L950-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-LD5-81SL-LW-UNV-L950-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
WIDE FROSTED LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

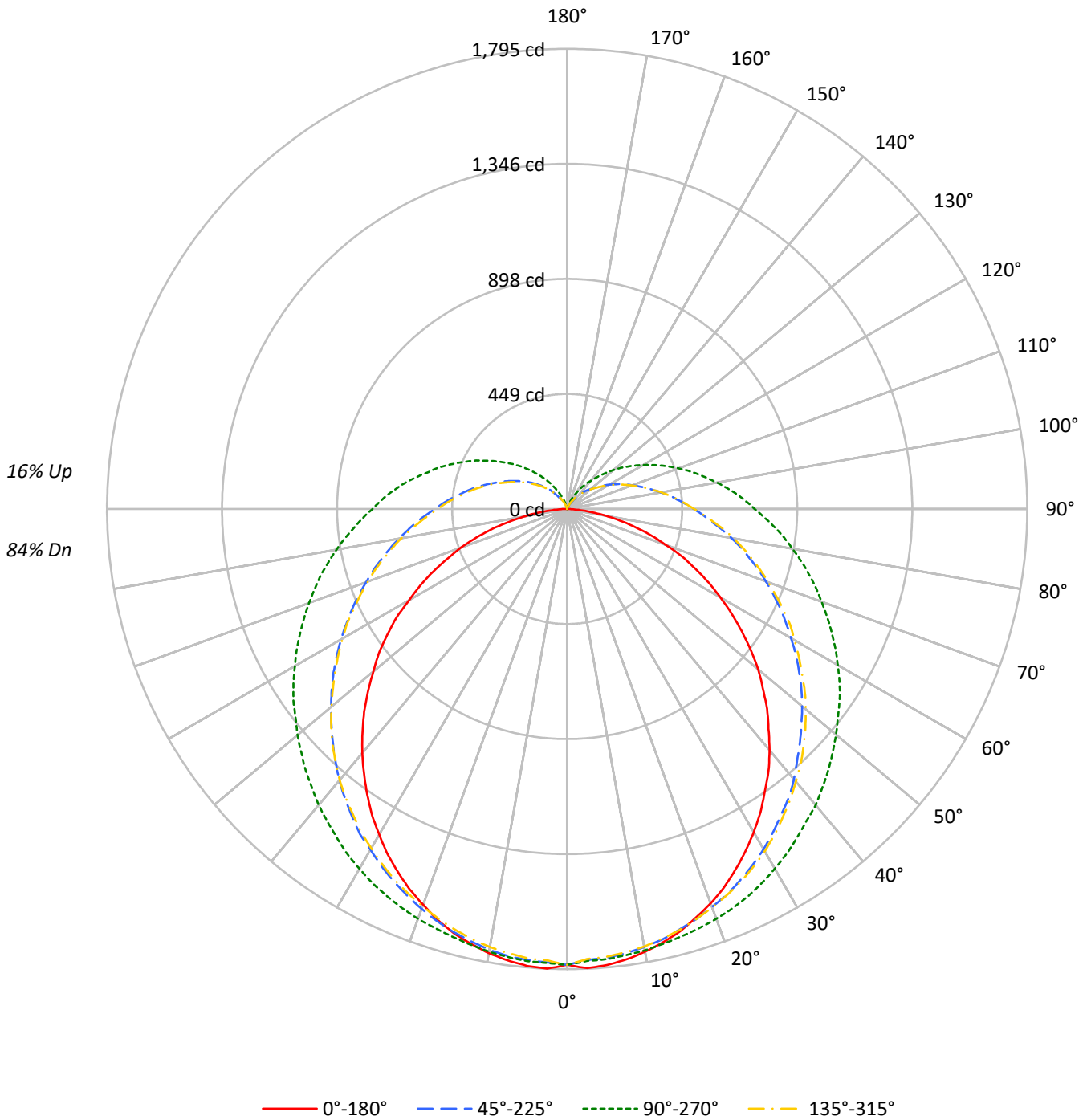
Lumens per Lamp: N/A  
Luminaire Lumens: 7725.0 lumens  
Efficiency: N/A  
Efficacy: 112.0 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Semi-Direct

Input Watts (W): 69  
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#  
CATALOG NUMBER: 8SNLED-LD5-81SL-LW-UNV-L950-CD1-U

### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				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	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°	7184	7184	7184	7184
5°	7232	6924	7247	6953
10°	7175	6727	7198	6748
15°	7102	6559	7133	6565
20°	7001	6436	7025	6436
25°	6874	6326	6915	6319
30°	6730	6214	6782	6214
35°	6562	6110	6635	6117
40°	6396	6049	6474	6049
45°	6205	5985	6300	5992
50°	6007	5946	6088	5963
55°	5725	5952	5906	5978
60°	5431	5970	5608	6007
65°	5101	6030	5327	6090
70°	4632	6141	4993	6229
75°	4095	6342	4481	6464
80°	3247	6639	3689	6793
85°	2065	7116	2580	7313



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	168.4	2.2
10°-20°	484.1	6.3
20°-30°	742.2	9.6
30°-40°	915.6	11.9
40°-50°	993.4	12.9
50°-60°	979.1	12.7
60°-70°	885.3	11.5
70°-80°	737.5	9.5
80°-90°	571.2	7.4
90°-100°	433.2	5.6
100°-110°	320.6	4.2
110°-120°	223.0	2.9
120°-130°	142.3	1.8
130°-140°	79.8	1.0
140°-150°	36.5	0.5
150°-160°	11.3	0.1
160°-170°	1.4	0.0
170°-180°	0.0	0.0
0°-30°	1394.7	18.1
0°-40°	2310.4	29.9
0°-60°	4282.9	55.4
0°-90°	6476.9	83.8
90°-120°	976.8	12.6
90°-150°	1235.4	16.0
90°-180°	1248.0	16.2
0°-180°	7725.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1778	1778	1778	1778	1778	
5°	1786	1763	1789	1771	1786	169
15°	1705	1726	1712	1727	1705	480
25°	1553	1667	1562	1666	1553	715
35°	1345	1564	1360	1566	1345	842
45°	1103	1440	1120	1442	1103	850
55°	831	1298	857	1304	831	744
65°	551	1138	576	1150	551	547
75°	278	975	304	994	278	294
85°	52	812	66	835	52	63
90°	2	732	4	760	2	3
95°	2	664	2	696	2	2
105°	2	527	2	559	2	2
115°	2	401	2	437	2	2
125°	2	289	2	321	2	2
135°	2	188	2	221	2	1
145°	2	109	2	133	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#

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1
2.5°	1793.1	1793.1	1791.2	1787.4	1789.3	1794.9	1791.2	1781.8	1776.2	1761.2	1764.9
5°	1785.6	1785.6	1783.7	1779.9	1781.8	1789.3	1785.6	1778.1	1770.6	1757.4	1763.1
7.5°	1772.4	1772.4	1770.6	1766.8	1770.6	1778.1	1774.3	1766.8	1761.2	1748.1	1753.7
10°	1753.7	1755.6	1753.7	1748.1	1755.6	1763.1	1761.2	1751.8	1746.2	1734.9	1740.6
12.5°	1731.2	1733.1	1731.2	1729.3	1733.1	1744.3	1740.6	1733.1	1729.3	1719.9	1725.6
15°	1704.9	1706.8	1703.0	1703.0	1706.8	1718.0	1718.0	1710.5	1706.8	1697.4	1708.7
17.5°	1671.2	1673.0	1671.2	1671.2	1674.9	1686.2	1688.0	1684.3	1680.5	1676.8	1688.0
20°	1637.4	1635.5	1635.5	1633.6	1641.1	1658.0	1656.2	1656.2	1652.4	1652.4	1665.5
22.5°	1598.0	1598.0	1596.1	1596.1	1605.5	1620.5	1620.5	1624.3	1620.5	1628.0	1639.3
25°	1553.0	1554.9	1553.0	1556.7	1564.2	1581.1	1583.0	1588.6	1590.5	1598.0	1611.1
27.5°	1506.1	1508.0	1506.1	1509.9	1523.0	1536.1	1545.5	1553.0	1554.9	1566.1	1583.0
30°	1455.5	1455.5	1457.3	1461.1	1476.1	1496.7	1504.2	1513.6	1513.6	1532.4	1549.2
32.5°	1402.9	1402.9	1402.9	1410.5	1427.3	1451.7	1461.1	1472.3	1476.1	1494.9	1513.6
35°	1344.8	1346.7	1346.7	1352.3	1374.8	1399.2	1412.3	1425.5	1433.0	1455.5	1474.2
37.5°	1290.4	1294.2	1288.5	1296.0	1327.9	1348.6	1363.6	1376.7	1389.8	1419.8	1434.8
40°	1228.5	1232.3	1230.4	1245.4	1271.7	1297.9	1314.8	1327.9	1346.7	1376.7	1393.6
42.5°	1162.9	1166.6	1170.4	1187.3	1215.4	1241.6	1262.3	1279.2	1301.7	1327.9	1356.1
45°	1102.9	1102.9	1108.5	1129.1	1159.1	1187.3	1211.6	1230.4	1256.7	1284.8	1312.9
47.5°	1035.3	1037.2	1044.7	1069.1	1101.0	1134.7	1157.2	1181.6	1209.8	1239.8	1271.7
50°	973.4	973.4	984.7	1010.9	1041.0	1078.5	1102.9	1131.0	1161.0	1196.6	1228.5
52.5°	902.2	905.9	922.8	947.2	986.6	1020.3	1048.5	1078.5	1114.1	1151.6	1187.3
55°	830.9	838.4	851.5	885.3	926.5	958.4	992.2	1029.7	1063.5	1104.7	1146.0
57.5°	761.5	767.1	787.8	821.5	864.7	904.0	939.7	975.3	1016.6	1057.8	1101.0
60°	690.2	697.7	722.1	755.9	802.8	844.0	885.3	922.8	965.9	1009.1	1054.1
62.5°	622.7	628.3	656.5	695.8	742.7	787.8	829.0	874.0	920.9	962.2	1007.2
65°	551.4	560.8	592.7	628.3	682.7	727.7	774.6	823.4	872.2	917.2	960.3
67.5°	485.8	491.4	525.2	566.4	620.8	671.5	720.2	772.7	823.4	870.3	913.4
70°	408.9	427.6	461.4	504.5	562.7	615.2	667.7	722.1	776.5	825.3	866.5
72.5°	345.1	360.1	397.6	444.5	500.8	562.7	617.1	675.2	729.6	780.2	823.4
75°	277.6	292.6	335.7	388.2	446.4	512.0	568.3	628.3	684.6	735.2	780.2
77.5°	211.9	230.7	277.6	332.0	395.8	463.3	521.4	581.4	639.6	694.0	739.0
80°	151.9	172.6	223.2	285.1	347.0	414.5	478.3	538.3	596.4	650.8	697.7
82.5°	97.5	120.0	174.4	236.3	302.0	369.5	435.1	495.2	553.3	607.7	656.5
85°	52.5	76.9	133.2	195.1	260.7	328.2	393.9	457.6	513.9	564.6	617.1
87.5°	15.0	45.0	99.4	161.3	228.8	290.7	354.5	418.3	474.5	528.9	575.8
90°	1.9	26.3	75.0	133.2	198.8	258.8	322.6	382.6	438.9	493.3	540.2
92.5°	1.9	16.9	58.1	110.7	170.7	232.6	296.3	354.5	407.0	461.4	508.3
95°	1.9	13.1	46.9	93.8	150.0	208.2	268.2	324.5	378.9	429.5	476.4
97.5°	1.9	9.4	37.5	80.7	131.3	185.7	243.8	300.1	352.6	401.4	444.5
100°	1.9	7.5	30.0	69.4	114.4	166.9	219.4	273.8	324.5	371.4	416.4
102.5°	1.9	5.6	26.3	58.1	101.3	148.2	198.8	249.5	298.2	343.2	388.2
105°	1.9	5.6	22.5	50.6	90.0	133.2	180.1	228.8	273.8	317.0	358.2
107.5°	1.9	3.8	18.8	43.1	78.8	120.0	163.2	210.1	251.3	292.6	332.0
110°	1.9	3.8	15.0	39.4	69.4	106.9	148.2	191.3	230.7	270.1	307.6



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CATALOG NUMBER: 8SNLED-LD5-81SL-LW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.9	3.8	13.1	33.8	60.0	95.7	133.2	172.6	210.1	249.5	283.2
115°	1.9	3.8	11.3	30.0	56.3	82.5	120.0	155.7	193.2	228.8	260.7
117.5°	1.9	3.8	9.4	24.4	48.8	75.0	105.0	140.7	174.4	208.2	238.2
120°	1.9	3.8	7.5	22.5	43.1	67.5	93.8	125.7	157.6	189.4	221.3
122.5°	1.9	1.9	7.5	18.8	37.5	60.0	86.3	110.7	140.7	170.7	198.8
125°	1.9	1.9	7.5	16.9	31.9	54.4	76.9	99.4	125.7	151.9	176.3
127.5°	1.9	1.9	5.6	13.1	28.1	46.9	67.5	91.9	110.7	135.0	159.4
130°	1.9	1.9	5.6	11.3	24.4	39.4	60.0	80.7	103.2	120.0	140.7
132.5°	1.9	1.9	5.6	9.4	18.8	31.9	50.6	69.4	90.0	108.8	125.7
135°	1.9	1.9	3.8	7.5	15.0	26.3	41.3	58.1	78.8	97.5	114.4
137.5°	1.9	1.9	3.8	7.5	11.3	22.5	31.9	46.9	65.6	82.5	99.4
140°	1.9	1.9	3.8	5.6	9.4	16.9	26.3	37.5	52.5	67.5	86.3
142.5°	1.9	1.9	1.9	5.6	7.5	13.1	20.6	30.0	41.3	54.4	69.4
145°	1.9	1.9	1.9	5.6	7.5	9.4	16.9	24.4	31.9	41.3	54.4
147.5°	1.9	1.9	1.9	3.8	5.6	7.5	13.1	18.8	24.4	31.9	39.4
150°	1.9	1.9	1.9	3.8	5.6	7.5	9.4	13.1	18.8	26.3	31.9
152.5°	1.9	1.9	1.9	3.8	3.8	5.6	7.5	9.4	13.1	18.8	22.5
155°	1.9	1.9	1.9	1.9	3.8	5.6	7.5	7.5	9.4	13.1	16.9
157.5°	1.9	1.9	1.9	1.9	3.8	3.8	5.6	5.6	7.5	7.5	11.3
160°	1.9	1.9	1.9	1.9	1.9	3.8	3.8	5.6	5.6	5.6	5.6
162.5°	1.9	1.9	1.9	1.9	1.9	1.9	3.8	3.8	3.8	5.6	5.6
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°	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1
2.5°	1764.9	1766.8	1772.4	1772.4	1768.7	1768.7	1766.8	1764.9	1766.8	1770.6	1770.6
5°	1761.2	1763.1	1768.7	1770.6	1766.8	1764.9	1764.9	1763.1	1764.9	1768.7	1768.7
7.5°	1753.7	1755.6	1761.2	1763.1	1759.3	1759.3	1757.4	1755.6	1759.3	1761.2	1761.2
10°	1742.4	1744.3	1751.8	1753.7	1751.8	1749.9	1749.9	1748.1	1749.9	1753.7	1753.7
12.5°	1727.4	1731.2	1740.6	1740.6	1740.6	1738.7	1738.7	1736.8	1738.7	1742.4	1740.6
15°	1710.5	1718.0	1725.6	1729.3	1729.3	1729.3	1727.4	1725.6	1729.3	1731.2	1729.3
17.5°	1691.8	1701.2	1712.4	1716.2	1716.2	1718.0	1716.2	1714.3	1718.0	1718.0	1716.2
20°	1673.0	1682.4	1693.7	1697.4	1701.2	1703.0	1703.0	1701.2	1703.0	1704.9	1703.0
22.5°	1648.7	1659.9	1673.0	1678.7	1682.4	1686.2	1686.2	1686.2	1688.0	1689.9	1686.2
25°	1622.4	1635.5	1650.5	1656.2	1663.7	1665.5	1667.4	1667.4	1669.3	1671.2	1665.5
27.5°	1594.3	1609.3	1624.3	1633.6	1639.3	1643.0	1643.0	1644.9	1646.8	1648.7	1643.0
30°	1560.5	1583.0	1596.1	1603.6	1611.1	1616.8	1618.6	1620.5	1622.4	1624.3	1618.6
32.5°	1530.5	1549.2	1566.1	1575.5	1584.9	1592.4	1594.3	1594.3	1598.0	1598.0	1592.4
35°	1494.9	1517.4	1534.2	1543.6	1554.9	1560.5	1564.2	1564.2	1568.0	1568.0	1562.4
37.5°	1459.2	1481.7	1500.5	1511.7	1524.9	1532.4	1534.2	1534.2	1538.0	1538.0	1530.5
40°	1421.7	1446.1	1466.7	1479.8	1491.1	1500.5	1502.4	1508.0	1508.0	1506.1	1498.6
42.5°	1384.2	1406.7	1429.2	1444.2	1459.2	1468.6	1472.3	1474.2	1474.2	1472.3	1466.7
45°	1342.9	1369.2	1389.8	1408.6	1423.6	1433.0	1438.6	1440.5	1440.5	1436.7	1431.1
47.5°	1303.5	1329.8	1350.4	1371.1	1386.1	1397.3	1402.9	1404.8	1402.9	1401.1	1395.4
50°	1262.3	1292.3	1312.9	1333.6	1348.6	1357.9	1367.3	1369.2	1367.3	1365.4	1354.2
52.5°	1219.1	1251.0	1273.5	1294.2	1311.0	1322.3	1329.8	1331.7	1331.7	1327.9	1320.4
55°	1176.0	1204.1	1232.3	1254.8	1273.5	1284.8	1294.2	1297.9	1294.2	1290.4	1281.0
57.5°	1136.6	1162.9	1191.0	1215.4	1234.1	1249.1	1256.7	1260.4	1256.7	1251.0	1241.6
60°	1089.7	1117.9	1149.7	1172.2	1192.9	1207.9	1211.6	1219.1	1215.4	1209.8	1200.4
62.5°	1044.7	1078.5	1106.6	1134.7	1151.6	1168.5	1176.0	1179.8	1176.0	1170.4	1161.0
65°	997.8	1035.3	1063.5	1091.6	1110.4	1127.2	1136.6	1138.5	1134.7	1129.1	1119.7
67.5°	954.7	990.3	1020.3	1050.3	1067.2	1084.1	1093.5	1097.2	1093.5	1086.0	1076.6
70°	911.5	947.2	982.8	1005.3	1026.0	1044.7	1050.3	1056.0	1052.2	1044.7	1033.5
72.5°	868.4	905.9	941.6	964.1	986.6	1003.4	1010.9	1016.6	1012.8	1005.3	992.2
75°	823.4	862.8	898.4	922.8	945.3	962.2	969.7	975.3	971.6	964.1	949.1
77.5°	782.1	821.5	855.3	881.5	904.0	919.0	932.2	934.0	930.3	922.8	907.8
80°	739.0	778.4	814.0	840.3	862.8	877.8	887.2	892.8	889.0	881.5	866.5
82.5°	701.5	737.1	772.7	799.0	821.5	840.3	847.8	853.4	851.5	840.3	829.0
85°	660.2	701.5	729.6	757.7	780.2	799.0	804.6	812.1	810.3	800.9	785.9
87.5°	618.9	660.2	694.0	722.1	742.7	757.7	767.1	770.9	769.0	759.6	742.7
90°	585.2	622.7	656.5	686.5	703.3	720.2	729.6	731.5	731.5	720.2	707.1
92.5°	553.3	588.9	622.7	650.8	671.5	686.5	694.0	697.7	695.8	686.5	671.5
95°	517.7	557.1	588.9	617.1	637.7	652.7	660.2	664.0	662.1	652.7	637.7
97.5°	487.7	523.3	555.2	581.4	602.1	617.1	624.6	628.3	628.3	618.9	603.9
100°	457.6	493.3	523.3	549.6	568.3	583.3	590.8	592.7	590.8	583.3	568.3
102.5°	427.6	461.4	491.4	515.8	536.4	549.6	557.1	558.9	558.9	549.6	534.5
105°	397.6	431.4	459.5	485.8	502.7	515.8	521.4	527.0	525.2	517.7	502.7
107.5°	369.5	403.3	429.5	453.9	470.8	483.9	489.5	495.2	493.3	485.8	470.8
110°	343.2	375.1	399.5	423.9	438.9	452.0	461.4	463.3	459.5	452.0	438.9





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-81SL-LW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	318.9	347.0	371.4	393.9	410.8	420.1	427.6	431.4	427.6	420.1	410.8
115°	292.6	320.7	345.1	365.7	380.7	392.0	397.6	401.4	397.6	390.1	380.7
117.5°	268.2	294.5	318.9	339.5	352.6	362.0	367.6	371.4	367.6	362.0	352.6
120°	247.6	270.1	292.6	311.3	326.4	333.9	339.5	343.2	341.4	333.9	324.5
122.5°	223.2	247.6	268.2	287.0	300.1	307.6	311.3	315.1	313.2	307.6	298.2
125°	202.6	223.2	243.8	260.7	273.8	281.3	285.1	288.8	287.0	281.3	270.1
127.5°	180.1	202.6	219.4	236.3	245.7	257.0	258.8	262.6	260.7	255.1	245.7
130°	163.2	180.1	196.9	211.9	223.2	230.7	234.4	236.3	232.6	228.8	219.4
132.5°	142.5	161.3	176.3	189.4	196.9	204.4	208.2	210.1	210.1	204.4	196.9
135°	127.5	140.7	153.8	166.9	174.4	181.9	185.7	187.6	185.7	181.9	174.4
137.5°	114.4	125.7	135.0	146.3	155.7	159.4	163.2	163.2	161.3	159.4	153.8
140°	99.4	112.5	121.9	129.4	136.9	138.8	142.5	142.5	140.7	138.8	135.0
142.5°	84.4	95.7	105.0	114.4	120.0	123.8	125.7	127.5	125.7	123.8	118.2
145°	67.5	80.7	90.0	95.7	103.2	105.0	106.9	108.8	106.9	105.0	99.4
147.5°	52.5	63.8	73.1	80.7	86.3	88.2	90.0	91.9	90.0	86.3	84.4
150°	37.5	46.9	58.1	65.6	69.4	73.1	73.1	73.1	75.0	71.3	67.5
152.5°	30.0	33.8	41.3	48.8	54.4	56.3	58.1	58.1	56.3	56.3	52.5
155°	20.6	24.4	30.0	35.6	41.3	43.1	45.0	45.0	43.1	43.1	41.3
157.5°	13.1	16.9	20.6	24.4	30.0	31.9	33.8	33.8	33.8	31.9	30.0
160°	7.5	9.4	11.3	15.0	18.8	20.6	22.5	22.5	22.5	22.5	20.6
162.5°	5.6	5.6	5.6	7.5	9.4	11.3	13.1	13.1	13.1	13.1	11.3
165°	3.8	3.8	3.8	3.8	3.8	5.6	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-LD5-81SL-LW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1
2.5°	1768.7	1768.7	1770.6	1766.8	1755.6	1757.4	1757.4	1764.9	1768.7	1770.6	1779.9
5°	1764.9	1764.9	1768.7	1763.1	1753.7	1753.7	1753.7	1761.2	1763.1	1766.8	1774.3
7.5°	1759.3	1759.3	1761.2	1755.6	1744.3	1744.3	1742.4	1749.9	1753.7	1755.6	1763.1
10°	1749.9	1749.9	1751.8	1746.2	1733.1	1733.1	1731.2	1736.8	1738.7	1742.4	1748.1
12.5°	1736.8	1736.8	1736.8	1731.2	1718.0	1716.2	1714.3	1719.9	1719.9	1721.8	1727.4
15°	1725.6	1721.8	1721.8	1716.2	1703.0	1699.3	1695.5	1697.4	1701.2	1699.3	1703.0
17.5°	1712.4	1708.7	1704.9	1699.3	1682.4	1676.8	1673.0	1674.9	1673.0	1671.2	1674.9
20°	1697.4	1691.8	1689.9	1680.5	1663.7	1654.3	1646.8	1643.0	1644.9	1639.3	1641.1
22.5°	1680.5	1673.0	1669.3	1658.0	1641.1	1629.9	1620.5	1613.0	1611.1	1603.6	1605.5
25°	1659.9	1650.5	1644.9	1635.5	1616.8	1603.6	1592.4	1581.1	1575.5	1566.1	1564.2
27.5°	1635.5	1626.1	1618.6	1609.3	1590.5	1573.6	1560.5	1545.5	1538.0	1526.7	1521.1
30°	1611.1	1599.9	1588.6	1581.1	1560.5	1541.7	1521.1	1508.0	1496.7	1483.6	1474.2
32.5°	1581.1	1569.9	1558.6	1547.4	1528.6	1506.1	1489.2	1468.6	1455.5	1440.5	1429.2
35°	1551.1	1536.1	1524.9	1509.9	1493.0	1466.7	1446.1	1425.5	1408.6	1391.7	1378.6
37.5°	1517.4	1506.1	1489.2	1476.1	1455.5	1429.2	1406.7	1380.4	1365.4	1342.9	1326.0
40°	1485.5	1472.3	1455.5	1438.6	1418.0	1387.9	1363.6	1333.6	1316.7	1290.4	1273.5
42.5°	1453.6	1434.8	1418.0	1399.2	1376.7	1348.6	1318.5	1288.5	1266.0	1241.6	1217.3
45°	1418.0	1397.3	1376.7	1356.1	1333.6	1305.4	1273.5	1241.6	1213.5	1191.0	1161.0
47.5°	1380.4	1359.8	1335.4	1312.9	1288.5	1260.4	1226.6	1192.9	1162.9	1136.6	1104.7
50°	1342.9	1322.3	1296.0	1271.7	1243.5	1215.4	1179.8	1140.4	1108.5	1074.7	1046.6
52.5°	1303.5	1282.9	1258.5	1226.6	1196.6	1168.5	1131.0	1089.7	1054.1	1026.0	990.3
55°	1264.2	1243.5	1215.4	1183.5	1153.5	1117.9	1082.2	1041.0	1001.6	967.8	932.2
57.5°	1222.9	1204.1	1172.2	1146.0	1108.5	1071.0	1033.5	994.1	950.9	911.5	870.3
60°	1181.6	1161.0	1131.0	1099.1	1061.6	1024.1	984.7	941.6	896.5	853.4	815.9
62.5°	1144.1	1117.9	1089.7	1056.0	1016.6	980.9	935.9	889.0	844.0	799.0	754.0
65°	1101.0	1072.8	1046.6	1012.8	971.6	930.3	885.3	838.4	789.6	740.9	695.8
67.5°	1057.8	1029.7	1001.6	967.8	924.7	881.5	834.6	787.8	733.4	686.5	634.0
70°	1014.7	992.2	956.6	920.9	881.5	834.6	787.8	737.1	680.8	630.2	575.8
72.5°	971.6	949.1	913.4	875.9	838.4	789.6	739.0	688.3	635.8	577.7	519.5
75°	930.3	902.2	870.3	834.6	795.3	744.6	694.0	641.5	579.6	525.2	465.1
77.5°	890.9	864.7	832.8	793.4	750.2	701.5	649.0	594.6	532.7	474.5	408.9
80°	847.8	821.5	789.6	750.2	707.1	660.2	603.9	547.7	487.7	423.9	356.4
82.5°	806.5	782.1	746.5	710.9	664.0	617.1	560.8	504.5	440.8	378.9	313.2
85°	763.4	739.0	705.2	667.7	622.7	572.1	519.5	463.3	399.5	335.7	270.1
87.5°	725.9	697.7	664.0	626.5	581.4	532.7	482.0	422.0	360.1	298.2	230.7
90°	686.5	660.2	626.5	588.9	543.9	495.2	442.6	386.4	326.4	262.6	198.8
92.5°	652.7	624.6	592.7	555.2	510.2	463.3	410.8	354.5	296.3	234.4	172.6
95°	618.9	590.8	560.8	523.3	478.3	431.4	378.9	324.5	268.2	208.2	150.0
97.5°	581.4	557.1	527.0	491.4	446.4	401.4	350.7	298.2	243.8	185.7	131.3
100°	551.4	523.3	495.2	457.6	416.4	373.2	322.6	272.0	219.4	165.1	114.4
102.5°	517.7	491.4	463.3	427.6	386.4	343.2	296.3	247.6	198.8	148.2	99.4
105°	485.8	461.4	431.4	397.6	358.2	317.0	272.0	226.9	180.1	131.3	88.2
107.5°	453.9	429.5	401.4	369.5	332.0	290.7	249.5	204.4	161.3	118.2	78.8
110°	422.0	399.5	373.2	341.4	305.7	268.2	228.8	187.6	144.4	105.0	69.4



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-81SL-LW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	393.9	371.4	345.1	315.1	281.3	245.7	208.2	168.8	129.4	93.8	60.0
115°	365.7	345.1	318.9	292.6	258.8	225.1	189.4	151.9	116.3	84.4	52.5
117.5°	337.6	317.0	292.6	266.3	236.3	204.4	170.7	135.0	105.0	75.0	46.9
120°	309.5	290.7	268.2	243.8	217.6	185.7	151.9	121.9	93.8	65.6	41.3
122.5°	283.2	266.3	245.7	223.2	195.1	165.1	136.9	110.7	84.4	58.1	33.8
125°	258.8	242.0	223.2	200.7	174.4	148.2	123.8	99.4	73.1	50.6	28.1
127.5°	234.4	217.6	198.8	178.2	157.6	133.2	110.7	88.2	65.6	45.0	24.4
130°	210.1	195.1	178.2	161.3	140.7	118.2	99.4	76.9	56.3	35.6	20.6
132.5°	185.7	174.4	159.4	142.5	123.8	106.9	86.3	67.5	48.8	31.9	18.8
135°	165.1	153.8	140.7	125.7	110.7	93.8	75.0	58.1	41.3	26.3	15.0
137.5°	146.3	136.9	123.8	110.7	97.5	80.7	65.6	48.8	33.8	22.5	11.3
140°	129.4	120.0	108.8	95.7	84.4	69.4	54.4	39.4	30.0	18.8	9.4
142.5°	112.5	103.2	93.8	82.5	71.3	58.1	45.0	33.8	24.4	15.0	9.4
145°	95.7	88.2	78.8	69.4	58.1	46.9	37.5	28.1	18.8	11.3	7.5
147.5°	78.8	73.1	63.8	56.3	46.9	37.5	30.0	22.5	15.0	9.4	5.6
150°	63.8	58.1	50.6	43.1	37.5	30.0	24.4	16.9	11.3	9.4	5.6
152.5°	48.8	45.0	39.4	35.6	30.0	22.5	16.9	13.1	9.4	7.5	3.8
155°	39.4	35.6	31.9	26.3	22.5	16.9	13.1	9.4	7.5	5.6	3.8
157.5°	28.1	26.3	22.5	18.8	15.0	11.3	9.4	9.4	5.6	3.8	1.9
160°	18.8	16.9	15.0	11.3	9.4	9.4	7.5	5.6	3.8	3.8	1.9
162.5°	11.3	9.4	9.4	9.4	7.5	7.5	5.6	3.8	3.8	1.9	1.9
165°	7.5	7.5	7.5	5.6	5.6	5.6	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-LD5-81SL-LW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1
2.5°	1779.9	1774.3	1781.8	1794.9	1796.8	1794.9	1791.2	1796.8	1804.3	1802.5	1789.3
5°	1776.2	1768.7	1776.2	1789.3	1789.3	1787.4	1785.6	1791.2	1798.7	1796.8	1785.6
7.5°	1764.9	1757.4	1764.9	1776.2	1778.1	1774.3	1774.3	1779.9	1787.4	1785.6	1776.2
10°	1749.9	1742.4	1746.2	1759.3	1763.1	1759.3	1759.3	1764.9	1774.3	1772.4	1761.2
12.5°	1727.4	1721.8	1725.6	1736.8	1740.6	1738.7	1736.8	1744.3	1753.7	1753.7	1742.4
15°	1703.0	1695.5	1699.3	1712.4	1714.3	1710.5	1712.4	1718.0	1729.3	1729.3	1719.9
17.5°	1674.9	1665.5	1671.2	1680.5	1682.4	1682.4	1682.4	1689.9	1703.0	1701.2	1693.7
20°	1643.0	1629.9	1633.6	1643.0	1646.8	1646.8	1646.8	1659.9	1669.3	1669.3	1661.8
22.5°	1605.5	1596.1	1596.1	1605.5	1611.1	1609.3	1609.3	1620.5	1633.6	1631.8	1631.8
25°	1562.4	1554.9	1551.1	1562.4	1564.2	1566.1	1569.9	1581.1	1596.1	1596.1	1598.0
27.5°	1517.4	1509.9	1508.0	1517.4	1519.2	1521.1	1524.9	1538.0	1553.0	1554.9	1558.6
30°	1474.2	1463.0	1459.2	1466.7	1470.5	1472.3	1472.3	1493.0	1506.1	1511.7	1519.2
32.5°	1423.6	1412.3	1402.9	1416.1	1418.0	1421.7	1423.6	1444.2	1459.2	1468.6	1479.8
35°	1372.9	1354.2	1350.4	1359.8	1363.6	1365.4	1369.2	1391.7	1412.3	1419.8	1434.8
37.5°	1316.7	1303.5	1292.3	1301.7	1305.4	1307.3	1318.5	1339.2	1359.8	1371.1	1386.1
40°	1264.2	1247.3	1237.9	1243.5	1247.3	1249.1	1262.3	1284.8	1309.2	1322.3	1341.1
42.5°	1206.0	1183.5	1176.0	1181.6	1183.5	1189.1	1200.4	1230.4	1254.8	1273.5	1288.5
45°	1147.9	1131.0	1114.1	1119.7	1121.6	1125.4	1142.2	1174.1	1200.4	1222.9	1239.8
47.5°	1087.8	1067.2	1050.3	1054.1	1061.6	1063.5	1082.2	1119.7	1144.1	1168.5	1191.0
50°	1027.8	999.7	986.6	986.6	990.3	999.7	1024.1	1061.6	1087.8	1116.0	1140.4
52.5°	965.9	939.7	924.7	926.5	930.3	941.6	964.1	1001.6	1031.6	1061.6	1091.6
55°	904.0	875.9	860.9	857.1	860.9	875.9	902.2	941.6	971.6	1007.2	1039.1
57.5°	842.1	808.4	795.3	789.6	793.4	812.1	838.4	879.7	917.2	950.9	988.4
60°	774.6	748.4	725.9	712.7	722.1	746.5	774.6	817.8	857.1	894.7	935.9
62.5°	716.5	682.7	658.3	645.2	654.6	675.2	714.6	755.9	799.0	842.1	883.4
65°	650.8	617.1	588.9	575.8	585.2	609.6	649.0	694.0	740.9	784.0	832.8
67.5°	587.1	551.4	517.7	504.5	515.8	542.0	585.2	635.8	686.5	731.5	784.0
70°	525.2	485.8	450.1	440.8	448.3	483.9	525.2	575.8	628.3	680.8	735.2
72.5°	468.9	420.1	382.6	371.4	380.7	420.1	467.0	519.5	575.8	632.1	690.2
75°	403.3	358.2	317.0	303.8	315.1	350.7	408.9	465.1	525.2	585.2	639.6
77.5°	350.7	298.2	255.1	234.4	253.2	298.2	354.5	414.5	476.4	538.3	600.2
80°	296.3	242.0	195.1	172.6	193.2	242.0	298.2	363.9	433.3	495.2	551.4
82.5°	247.6	189.4	140.7	116.3	138.8	193.2	255.1	320.7	388.2	450.1	515.8
85°	202.6	142.5	91.9	65.6	97.5	146.3	211.9	279.5	348.9	412.6	476.4
87.5°	165.1	106.9	56.3	28.1	60.0	114.4	176.3	243.8	313.2	377.0	437.0
90°	135.0	76.9	30.0	3.8	35.6	86.3	146.3	211.9	277.6	343.2	403.3
92.5°	110.7	58.1	16.9	1.9	22.5	69.4	125.7	187.6	251.3	315.1	373.2
95°	91.9	45.0	11.3	1.9	16.9	54.4	106.9	166.9	226.9	288.8	347.0
97.5°	78.8	37.5	9.4	1.9	13.1	46.9	91.9	148.2	206.3	264.5	320.7
100°	67.5	30.0	7.5	1.9	11.3	39.4	80.7	131.3	185.7	242.0	296.3
102.5°	58.1	24.4	5.6	1.9	9.4	33.8	71.3	118.2	166.9	221.3	273.8
105°	50.6	20.6	5.6	1.9	7.5	30.0	63.8	105.0	153.8	202.6	253.2
107.5°	43.1	16.9	3.8	1.9	5.6	24.4	56.3	95.7	138.8	185.7	232.6
110°	37.5	15.0	3.8	1.9	5.6	22.5	48.8	86.3	125.7	168.8	213.8



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-81SL-LW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	31.9	11.3	3.8	1.9	3.8	18.8	43.1	76.9	114.4	153.8	196.9
115°	28.1	9.4	1.9	1.9	3.8	16.9	39.4	69.4	103.2	140.7	180.1
117.5°	22.5	7.5	1.9	1.9	1.9	13.1	33.8	61.9	93.8	129.4	165.1
120°	18.8	7.5	1.9	1.9	1.9	11.3	30.0	54.4	84.4	116.3	150.0
122.5°	16.9	5.6	1.9	1.9	1.9	9.4	26.3	48.8	75.0	105.0	136.9
125°	15.0	5.6	1.9	1.9	1.9	7.5	22.5	43.1	67.5	93.8	123.8
127.5°	11.3	5.6	1.9	1.9	1.9	5.6	20.6	37.5	60.0	84.4	110.7
130°	9.4	3.8	1.9	1.9	1.9	5.6	16.9	33.8	52.5	75.0	99.4
132.5°	7.5	3.8	1.9	1.9	1.9	3.8	13.1	26.3	45.0	65.6	88.2
135°	7.5	3.8	1.9	1.9	1.9	3.8	9.4	22.5	37.5	56.3	75.0
137.5°	7.5	1.9	1.9	1.9	1.9	3.8	7.5	16.9	30.0	45.0	61.9
140°	5.6	1.9	1.9	1.9	1.9	1.9	5.6	13.1	24.4	37.5	52.5
142.5°	5.6	1.9	1.9	1.9	1.9	1.9	5.6	9.4	18.8	30.0	41.3
145°	3.8	1.9	1.9	1.9	1.9	1.9	3.8	7.5	15.0	22.5	33.8
147.5°	3.8	1.9	1.9	1.9	1.9	1.9	3.8	5.6	11.3	18.8	26.3
150°	3.8	1.9	1.9	1.9	1.9	1.9	3.8	5.6	7.5	13.1	20.6
152.5°	1.9	1.9	1.9	1.9	1.9	1.9	3.8	3.8	5.6	9.4	13.1
155°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	3.8	5.6	7.5	9.4
157.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	3.8	3.8	5.6	7.5
160°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	3.8	3.8	5.6
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-LD5-81SL-LW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1
2.5°	1783.7	1770.6	1774.3	1772.4	1776.2	1781.8	1781.8	1779.9	1779.9	1776.2	1772.4
5°	1779.9	1766.8	1772.4	1770.6	1774.3	1779.9	1779.9	1778.1	1778.1	1772.4	1770.6
7.5°	1768.7	1759.3	1763.1	1763.1	1766.8	1772.4	1772.4	1770.6	1770.6	1764.9	1763.1
10°	1757.4	1746.2	1751.8	1751.8	1755.6	1763.1	1763.1	1761.2	1761.2	1755.6	1753.7
12.5°	1738.7	1727.4	1736.8	1738.7	1742.4	1749.9	1748.1	1748.1	1748.1	1742.4	1740.6
15°	1716.2	1708.7	1718.0	1719.9	1725.6	1734.9	1734.9	1734.9	1734.9	1729.3	1727.4
17.5°	1691.8	1686.2	1695.5	1699.3	1706.8	1716.2	1716.2	1718.0	1719.9	1716.2	1714.3
20°	1663.7	1659.9	1669.3	1676.8	1688.0	1697.4	1701.2	1703.0	1706.8	1703.0	1701.2
22.5°	1631.8	1631.8	1644.9	1652.4	1665.5	1674.9	1680.5	1686.2	1689.9	1686.2	1684.3
25°	1596.1	1601.8	1614.9	1628.0	1643.0	1652.4	1658.0	1665.5	1669.3	1667.4	1665.5
27.5°	1562.4	1569.9	1586.8	1599.9	1613.0	1628.0	1633.6	1643.0	1646.8	1646.8	1644.9
30°	1523.0	1534.2	1553.0	1568.0	1584.9	1599.9	1607.4	1616.8	1622.4	1618.6	1620.5
32.5°	1485.5	1504.2	1519.2	1536.1	1554.9	1569.9	1579.3	1590.5	1596.1	1594.3	1596.1
35°	1444.2	1463.0	1483.6	1500.5	1523.0	1538.0	1551.1	1560.5	1568.0	1566.1	1566.1
37.5°	1399.2	1423.6	1444.2	1466.7	1487.4	1504.2	1517.4	1528.6	1536.1	1536.1	1536.1
40°	1356.1	1382.3	1402.9	1429.2	1455.5	1470.5	1485.5	1496.7	1504.2	1506.1	1508.0
42.5°	1309.2	1337.3	1361.7	1389.8	1416.1	1434.8	1451.7	1464.8	1472.3	1476.1	1474.2
45°	1266.0	1292.3	1320.4	1352.3	1376.7	1395.4	1416.1	1431.1	1438.6	1440.5	1442.3
47.5°	1217.3	1247.3	1279.2	1311.0	1335.4	1359.8	1378.6	1393.6	1401.1	1406.7	1406.7
50°	1170.4	1202.3	1237.9	1271.7	1297.9	1322.3	1341.1	1357.9	1367.3	1371.1	1372.9
52.5°	1127.2	1157.2	1194.8	1228.5	1254.8	1279.2	1303.5	1322.3	1331.7	1335.4	1335.4
55°	1074.7	1112.2	1153.5	1185.4	1213.5	1241.6	1266.0	1284.8	1294.2	1299.8	1303.5
57.5°	1026.0	1065.3	1108.5	1142.2	1176.0	1202.3	1224.8	1249.1	1256.7	1264.2	1266.0
60°	979.1	1018.5	1059.7	1097.2	1131.0	1159.1	1185.4	1206.0	1219.1	1222.9	1226.6
62.5°	930.3	971.6	1014.7	1052.2	1087.8	1121.6	1146.0	1164.7	1179.8	1185.4	1189.1
65°	883.4	926.5	969.7	1009.1	1046.6	1080.3	1104.7	1123.5	1138.5	1147.9	1149.7
67.5°	832.8	879.7	924.7	965.9	1003.4	1039.1	1063.5	1082.2	1097.2	1108.5	1110.4
70°	785.9	834.6	879.7	924.7	962.2	997.8	1024.1	1042.8	1059.7	1067.2	1071.0
72.5°	740.9	791.5	838.4	883.4	920.9	956.6	984.7	1003.4	1020.3	1029.7	1031.6
75°	697.7	748.4	799.0	842.1	881.5	917.2	945.3	965.9	980.9	990.3	994.1
77.5°	654.6	707.1	757.7	800.9	842.1	877.8	902.2	926.5	941.6	952.8	952.8
80°	611.4	665.8	718.4	761.5	802.8	834.6	862.8	887.2	902.2	913.4	913.4
82.5°	573.9	626.5	677.1	720.2	761.5	797.1	825.3	847.8	864.7	872.2	874.0
85°	530.8	588.9	635.8	682.7	722.1	755.9	784.0	808.4	823.4	830.9	834.6
87.5°	495.2	551.4	602.1	643.3	682.7	716.5	748.4	769.0	784.0	793.4	797.1
90°	461.4	515.8	566.4	607.7	649.0	680.8	710.9	731.5	748.4	755.9	759.6
92.5°	431.4	485.8	534.5	575.8	615.2	650.8	679.0	699.6	714.6	722.1	727.7
95°	403.3	455.8	502.7	547.7	585.2	617.1	647.1	667.7	684.6	690.2	695.8
97.5°	375.1	425.8	472.7	515.8	555.2	585.2	613.3	634.0	647.1	656.5	662.1
100°	350.7	399.5	444.5	485.8	523.3	551.4	581.4	600.2	613.3	620.8	628.3
102.5°	324.5	373.2	416.4	455.8	495.2	521.4	549.6	568.3	579.6	592.7	592.7
105°	302.0	347.0	390.1	427.6	461.4	493.3	517.7	536.4	549.6	558.9	558.9
107.5°	277.6	322.6	363.9	403.3	435.1	465.1	487.7	504.5	519.5	525.2	530.8
110°	258.8	298.2	339.5	377.0	407.0	435.1	457.6	476.4	489.5	495.2	498.9



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-81SL-LW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	236.3	277.6	315.1	350.7	380.7	407.0	429.5	444.5	457.6	465.1	467.0
115°	217.6	257.0	290.7	324.5	356.4	378.9	399.5	414.5	427.6	433.3	437.0
117.5°	200.7	236.3	270.1	298.2	328.2	352.6	373.2	386.4	397.6	405.1	408.9
120°	183.8	217.6	247.6	275.7	303.8	326.4	345.1	358.2	371.4	377.0	377.0
122.5°	166.9	198.8	226.9	253.2	279.5	300.1	320.7	332.0	343.2	348.9	348.9
125°	151.9	181.9	208.2	232.6	257.0	275.7	292.6	305.7	317.0	320.7	320.7
127.5°	136.9	165.1	189.4	211.9	232.6	251.3	268.2	281.3	290.7	294.5	294.5
130°	123.8	148.2	170.7	193.2	213.8	228.8	245.7	257.0	262.6	268.2	270.1
132.5°	110.7	133.2	153.8	172.6	193.2	208.2	221.3	232.6	238.2	243.8	245.7
135°	97.5	118.2	136.9	155.7	172.6	187.6	198.8	208.2	215.7	219.4	221.3
137.5°	82.5	105.0	121.9	136.9	155.7	166.9	180.1	185.7	193.2	196.9	196.9
140°	69.4	86.3	105.0	120.0	135.0	146.3	157.6	166.9	172.6	174.4	174.4
142.5°	56.3	71.3	86.3	105.0	118.2	127.5	138.8	146.3	150.0	151.9	153.8
145°	45.0	56.3	69.4	86.3	101.3	112.5	118.2	125.7	129.4	131.3	133.2
147.5°	33.8	45.0	56.3	67.5	82.5	93.8	99.4	106.9	110.7	112.5	112.5
150°	26.3	33.8	41.3	52.5	63.8	76.9	84.4	90.0	91.9	93.8	93.8
152.5°	18.8	26.3	31.9	39.4	46.9	58.1	69.4	73.1	75.0	76.9	76.9
155°	13.1	18.8	22.5	28.1	33.8	43.1	52.5	58.1	60.0	61.9	61.9
157.5°	9.4	13.1	15.0	20.6	24.4	28.1	35.6	45.0	46.9	46.9	46.9
160°	5.6	7.5	9.4	13.1	15.0	18.8	22.5	28.1	33.8	33.8	33.8
162.5°	3.8	5.6	5.6	7.5	7.5	11.3	13.1	15.0	20.6	22.5	22.5
165°	1.9	3.8	3.8	3.8	3.8	3.8	5.6	5.6	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-LD5-81SL-LW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1
2.5°	1774.3	1778.1	1776.2	1776.2	1776.2	1779.9	1776.2	1759.3	1763.1	1766.8	1770.6
5°	1772.4	1774.3	1774.3	1772.4	1772.4	1776.2	1772.4	1755.6	1759.3	1763.1	1764.9
7.5°	1764.9	1766.8	1766.8	1766.8	1764.9	1768.7	1763.1	1748.1	1748.1	1751.8	1753.7
10°	1755.6	1759.3	1757.4	1755.6	1755.6	1755.6	1751.8	1734.9	1734.9	1736.8	1738.7
12.5°	1744.3	1744.3	1744.3	1742.4	1740.6	1740.6	1736.8	1719.9	1718.0	1721.8	1719.9
15°	1729.3	1733.1	1729.3	1727.4	1723.7	1723.7	1718.0	1701.2	1697.4	1699.3	1697.4
17.5°	1716.2	1718.0	1714.3	1710.5	1706.8	1704.9	1699.3	1680.5	1674.9	1676.8	1673.0
20°	1703.0	1703.0	1699.3	1695.5	1689.9	1684.3	1676.8	1658.0	1648.7	1648.7	1641.1
22.5°	1686.2	1686.2	1682.4	1676.8	1671.2	1663.7	1656.2	1637.4	1622.4	1618.6	1613.0
25°	1667.4	1665.5	1663.7	1658.0	1646.8	1639.3	1631.8	1611.1	1594.3	1586.8	1577.4
27.5°	1644.9	1644.9	1639.3	1633.6	1622.4	1613.0	1603.6	1584.9	1562.4	1553.0	1539.9
30°	1620.5	1620.5	1614.9	1607.4	1596.1	1584.9	1573.6	1551.1	1528.6	1515.5	1500.5
32.5°	1596.1	1594.3	1588.6	1581.1	1569.9	1553.0	1543.6	1521.1	1494.9	1479.8	1459.2
35°	1566.1	1564.2	1558.6	1549.2	1534.2	1521.1	1506.1	1485.5	1455.5	1436.7	1414.2
37.5°	1536.1	1534.2	1530.5	1517.4	1502.4	1487.4	1468.6	1448.0	1419.8	1395.4	1372.9
40°	1506.1	1504.2	1496.7	1487.4	1468.6	1449.8	1431.1	1410.5	1380.4	1352.3	1327.9
42.5°	1474.2	1472.3	1463.0	1451.7	1431.1	1412.3	1389.8	1367.3	1337.3	1303.5	1279.2
45°	1442.3	1438.6	1429.2	1416.1	1393.6	1372.9	1350.4	1324.2	1294.2	1262.3	1230.4
47.5°	1408.6	1402.9	1393.6	1374.8	1356.1	1333.6	1307.3	1279.2	1249.1	1213.5	1179.8
50°	1371.1	1367.3	1356.1	1339.2	1316.7	1294.2	1264.2	1236.0	1200.4	1166.6	1125.4
52.5°	1335.4	1327.9	1318.5	1299.8	1277.3	1252.9	1221.0	1187.3	1151.6	1119.7	1076.6
55°	1297.9	1294.2	1281.0	1266.0	1237.9	1209.8	1179.8	1144.1	1104.7	1067.2	1026.0
57.5°	1262.3	1254.8	1243.5	1222.9	1198.5	1170.4	1138.5	1101.0	1057.8	1018.5	973.4
60°	1226.6	1215.4	1202.3	1183.5	1157.2	1127.2	1093.5	1054.1	1010.9	967.8	920.9
62.5°	1187.3	1177.9	1162.9	1144.1	1117.9	1086.0	1050.3	1009.1	967.8	922.8	872.2
65°	1147.9	1138.5	1123.5	1104.7	1078.5	1042.8	1005.3	964.1	917.2	874.0	819.6
67.5°	1108.5	1099.1	1082.2	1061.6	1035.3	1001.6	962.2	919.0	872.2	825.3	769.0
70°	1069.1	1057.8	1042.8	1020.3	994.1	958.4	919.0	874.0	827.1	776.5	720.2
72.5°	1029.7	1020.3	1001.6	980.9	952.8	917.2	877.8	832.8	784.0	731.5	675.2
75°	990.3	979.1	965.9	941.6	911.5	877.8	836.5	791.5	739.0	688.3	630.2
77.5°	950.9	941.6	924.7	900.3	872.2	836.5	795.3	750.2	697.7	645.2	583.3
80°	911.5	900.3	887.2	864.7	832.8	797.1	754.0	709.0	656.5	602.1	540.2
82.5°	872.2	860.9	845.9	823.4	793.4	757.7	716.5	667.7	615.2	558.9	500.8
85°	832.8	823.4	806.5	784.0	752.1	716.5	675.2	632.1	575.8	519.5	461.4
87.5°	793.4	784.0	767.1	744.6	714.6	679.0	637.7	592.7	538.3	485.8	422.0
90°	755.9	748.4	731.5	709.0	679.0	643.3	605.8	557.1	504.5	452.0	392.0
92.5°	722.1	714.6	699.6	677.1	650.8	611.4	573.9	527.0	474.5	420.1	362.0
95°	692.1	682.7	667.7	647.1	615.2	581.4	543.9	497.0	446.4	392.0	335.7
97.5°	658.3	649.0	634.0	611.4	585.2	549.6	512.0	467.0	416.4	365.7	309.5
100°	624.6	615.2	598.3	579.6	553.3	517.7	482.0	437.0	390.1	341.4	287.0
102.5°	590.8	581.4	566.4	547.7	521.4	489.5	453.9	410.8	363.9	315.1	264.5
105°	558.9	549.6	534.5	515.8	491.4	459.5	422.0	384.5	339.5	292.6	243.8
107.5°	527.0	517.7	504.5	485.8	461.4	431.4	395.8	356.4	315.1	270.1	223.2
110°	495.2	487.7	472.7	455.8	431.4	401.4	369.5	332.0	290.7	249.5	204.4





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-81SL-LW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	465.1	457.6	442.6	423.9	403.3	375.1	343.2	307.6	268.2	228.8	185.7
115°	435.1	425.8	412.6	395.8	375.1	348.9	318.9	287.0	247.6	210.1	170.7
117.5°	405.1	397.6	384.5	367.6	348.9	322.6	294.5	264.5	226.9	191.3	155.7
120°	375.1	369.5	356.4	341.4	322.6	298.2	272.0	242.0	208.2	174.4	140.7
122.5°	347.0	341.4	328.2	315.1	296.3	273.8	249.5	221.3	191.3	159.4	129.4
125°	320.7	313.2	302.0	288.8	272.0	251.3	226.9	200.7	172.6	144.4	116.3
127.5°	292.6	287.0	279.5	264.5	247.6	228.8	206.3	183.8	157.6	131.3	105.0
130°	270.1	262.6	253.2	242.0	226.9	208.2	187.6	165.1	142.5	118.2	91.9
132.5°	243.8	236.3	228.8	217.6	204.4	187.6	168.8	148.2	127.5	105.0	82.5
135°	219.4	213.8	206.3	195.1	181.9	168.8	150.0	131.3	112.5	91.9	73.1
137.5°	196.9	191.3	183.8	176.3	163.2	150.0	133.2	116.3	99.4	80.7	63.8
140°	174.4	170.7	163.2	155.7	144.4	131.3	116.3	101.3	86.3	69.4	54.4
142.5°	151.9	148.2	142.5	135.0	125.7	114.4	101.3	88.2	73.1	60.0	46.9
145°	131.3	129.4	123.8	116.3	108.8	97.5	86.3	75.0	61.9	50.6	37.5
147.5°	110.7	108.8	105.0	99.4	91.9	82.5	73.1	61.9	52.5	41.3	30.0
150°	91.9	90.0	88.2	80.7	76.9	67.5	60.0	50.6	43.1	31.9	24.4
152.5°	75.0	75.0	71.3	65.6	61.9	54.4	48.8	41.3	33.8	26.3	18.8
155°	60.0	58.1	56.3	52.5	48.8	43.1	37.5	31.9	26.3	18.8	13.1
157.5°	46.9	45.0	43.1	39.4	35.6	33.8	28.1	22.5	16.9	13.1	9.4
160°	33.8	31.9	30.0	28.1	26.3	22.5	18.8	15.0	11.3	7.5	5.6
162.5°	22.5	20.6	20.6	18.8	16.9	13.1	11.3	9.4	7.5	5.6	3.8
165°	11.3	11.3	9.4	9.4	7.5	5.6	5.6	5.6	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-LD5-81SL-LW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1
2.5°	1768.7	1768.7	1776.2	1774.3	1768.7	1779.9	1793.1
5°	1763.1	1763.1	1768.7	1768.7	1763.1	1774.3	1785.6
7.5°	1753.7	1751.8	1757.4	1757.4	1749.9	1759.3	1772.4
10°	1736.8	1734.9	1740.6	1740.6	1733.1	1742.4	1753.7
12.5°	1718.0	1714.3	1719.9	1718.0	1710.5	1719.9	1731.2
15°	1693.7	1691.8	1695.5	1691.8	1684.3	1693.7	1704.9
17.5°	1669.3	1663.7	1665.5	1665.5	1652.4	1661.8	1671.2
20°	1637.4	1629.9	1631.8	1629.9	1620.5	1626.1	1637.4
22.5°	1605.5	1594.3	1594.3	1592.4	1581.1	1588.6	1598.0
25°	1566.1	1553.0	1553.0	1551.1	1538.0	1543.6	1553.0
27.5°	1526.7	1513.6	1508.0	1506.1	1493.0	1493.0	1506.1
30°	1485.5	1466.7	1463.0	1457.3	1444.2	1444.2	1455.5
32.5°	1446.1	1419.8	1412.3	1404.8	1391.7	1389.8	1402.9
35°	1393.6	1372.9	1359.8	1352.3	1337.3	1333.6	1344.8
37.5°	1350.4	1324.2	1305.4	1296.0	1281.0	1275.4	1290.4
40°	1303.5	1275.4	1251.0	1245.4	1222.9	1215.4	1228.5
42.5°	1251.0	1221.0	1196.6	1185.4	1168.5	1161.0	1162.9
45°	1198.5	1166.6	1140.4	1125.4	1108.5	1095.4	1102.9
47.5°	1144.1	1116.0	1084.1	1061.6	1041.0	1031.6	1035.3
50°	1089.7	1056.0	1026.0	1001.6	977.2	965.9	973.4
52.5°	1035.3	999.7	965.9	939.7	911.5	900.3	902.2
55°	982.8	945.3	905.9	877.8	851.5	834.6	830.9
57.5°	930.3	889.0	847.8	815.9	782.1	767.1	761.5
60°	874.0	830.9	787.8	750.2	714.6	697.7	690.2
62.5°	821.5	774.6	725.9	686.5	650.8	628.3	622.7
65°	770.9	716.5	667.7	622.7	583.3	558.9	551.4
67.5°	716.5	660.2	607.7	558.9	521.4	489.5	485.8
70°	665.8	605.8	547.7	497.0	455.8	423.9	408.9
72.5°	615.2	553.3	493.3	438.9	386.4	356.4	345.1
75°	566.4	502.7	438.9	382.6	324.5	288.8	277.6
77.5°	521.4	455.8	388.2	326.4	272.0	226.9	211.9
80°	478.3	410.8	339.5	275.7	217.6	168.8	151.9
82.5°	433.3	369.5	296.3	228.8	168.8	118.2	97.5
85°	393.9	330.1	257.0	189.4	129.4	75.0	52.5
87.5°	362.0	292.6	226.9	159.4	97.5	43.1	15.0
90°	330.1	262.6	196.9	131.3	73.1	24.4	1.9
92.5°	302.0	238.2	172.6	112.5	56.3	16.9	1.9
95°	275.7	213.8	151.9	93.8	45.0	11.3	1.9
97.5°	251.3	193.2	135.0	80.7	37.5	9.4	1.9
100°	230.7	174.4	120.0	71.3	31.9	7.5	1.9
102.5°	210.1	157.6	106.9	61.9	28.1	5.6	1.9
105°	193.2	142.5	95.7	56.3	24.4	5.6	1.9
107.5°	176.3	129.4	86.3	48.8	20.6	3.8	1.9
110°	159.4	118.2	76.9	43.1	18.8	3.8	1.9



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-81SL-LW-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	146.3	106.9	69.4	39.4	15.0	3.8	1.9
115°	133.2	95.7	61.9	33.8	13.1	1.9	1.9
117.5°	120.0	86.3	54.4	30.0	11.3	1.9	1.9
120°	108.8	76.9	48.8	26.3	9.4	1.9	1.9
122.5°	97.5	69.4	43.1	22.5	7.5	1.9	1.9
125°	88.2	61.9	37.5	18.8	5.6	1.9	1.9
127.5°	78.8	54.4	33.8	16.9	5.6	1.9	1.9
130°	69.4	48.8	28.1	13.1	3.8	1.9	1.9
132.5°	61.9	41.3	24.4	11.3	3.8	1.9	1.9
135°	54.4	35.6	20.6	7.5	3.8	1.9	1.9
137.5°	46.9	30.0	16.9	5.6	1.9	1.9	1.9
140°	39.4	26.3	13.1	5.6	1.9	1.9	1.9
142.5°	33.8	20.6	9.4	3.8	1.9	1.9	1.9
145°	26.3	16.9	7.5	3.8	1.9	1.9	1.9
147.5°	20.6	13.1	5.6	3.8	1.9	1.9	1.9
150°	15.0	9.4	5.6	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	5.6	3.8	1.9	1.9	1.9	1.9
157.5°	5.6	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)