

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: **4SNLED-LD5-53SL-LN-UNV-L935-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: 4SNLED-LD5-53SL-LN-UNV-L935-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

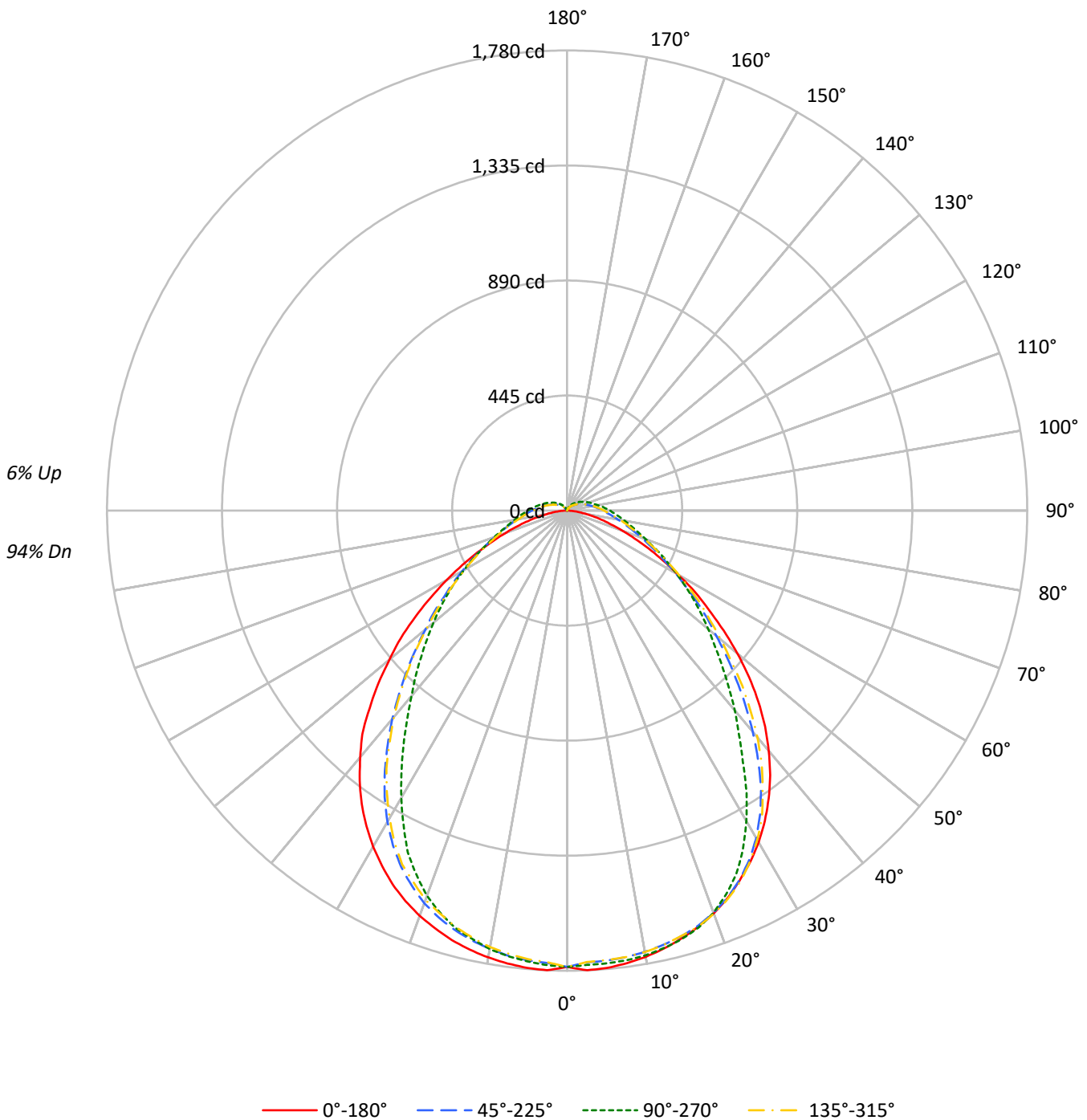
Lumens per Lamp: N/A  
Luminaire Lumens: 4467.0 lumens  
Efficiency: N/A  
Efficacy: 109.0 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.14 / 1.24  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 41  
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	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°	14264	14264	14264	14264
5°	14366	13810	14366	13748
10°	14302	13443	14325	13256
15°	14210	13041	14273	12701
20°	14100	12525	14183	11996
25°	13874	11759	14028	11066
30°	13580	10632	13758	9843
35°	13122	9253	13375	8616
40°	12466	8093	12795	7508
45°	11598	7035	11975	6632
50°	10414	6182	10873	5869
55°	9009	5459	9663	5183
60°	7577	4792	8262	4517
65°	6211	4237	6838	3929
70°	4944	3760	5536	3478
75°	3881	3472	4370	3194
80°	2803	3349	3301	3061
85°	1722	3368	2323	3097



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	167.3	3.7
10°-20°	479.8	10.7
20°-30°	711.1	15.9
30°-40°	790.1	17.7
40°-50°	716.2	16.0
50°-60°	555.0	12.4
60°-70°	376.9	8.4
70°-80°	239.8	5.4
80°-90°	153.3	3.4
90°-100°	103.3	2.3
100°-110°	70.8	1.6
110°-120°	47.2	1.1
120°-130°	29.4	0.7
130°-140°	16.2	0.4
140°-150°	7.6	0.2
150°-160°	2.8	0.1
160°-170°	0.2	0.0
170°-180°	0.0	0.0
0°-30°	1358.3	30.4
0°-40°	2148.4	48.1
0°-60°	3419.5	76.6
0°-90°	4189.4	93.8
90°-120°	221.4	5.0
90°-150°	274.6	6.1
90°-180°	278.0	6.2
0°-180°	4467.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1765	1765	1765	1765	1765	
5°	1776	1758	1776	1750	1776	169
15°	1713	1716	1720	1671	1713	483
25°	1579	1550	1596	1458	1579	727
35°	1359	1184	1386	1103	1359	848
45°	1047	847	1081	798	1047	804
55°	668	595	716	565	668	601
65°	347	400	382	371	347	348
75°	139	267	156	246	139	149
85°	25	192	34	177	25	30
90°	0	166	2	152	0	1
95°	1	142	0	132	1	1
105°	1	104	0	98	1	1
115°	1	79	0	73	1	1
125°	1	58	1	52	1	1
135°	1	41	1	33	1	1
145°	1	26	1	18	1	1
155°	1	15	1	7	1	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-53SL-LN-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1765.1	1765.1	1765.1	1765.1	1765.1	1765.1	1765.1	1765.1	1765.1	1765.1	1765.1
2.5°	1779.7	1777.7	1775.8	1772.9	1775.8	1783.5	1778.7	1768.0	1766.1	1748.6	1756.4
5°	1775.8	1772.9	1770.9	1768.0	1771.9	1781.6	1776.7	1767.0	1764.1	1747.6	1756.4
7.5°	1766.1	1764.1	1761.2	1761.2	1765.1	1774.8	1770.9	1760.2	1758.3	1741.8	1751.5
10°	1752.5	1751.5	1749.6	1749.6	1753.4	1765.1	1760.2	1750.5	1748.6	1733.1	1743.7
12.5°	1735.0	1736.0	1733.1	1733.1	1738.9	1750.5	1746.7	1736.0	1734.0	1720.4	1731.1
15°	1712.7	1713.6	1711.7	1712.7	1718.5	1732.1	1727.2	1717.5	1715.6	1704.9	1713.6
17.5°	1687.4	1688.4	1688.4	1687.4	1694.2	1707.8	1703.9	1695.2	1692.3	1683.5	1694.2
20°	1658.3	1658.3	1658.3	1658.3	1666.1	1679.7	1674.8	1668.0	1662.2	1655.4	1664.1
22.5°	1622.4	1621.4	1622.4	1625.3	1633.1	1643.7	1640.8	1633.1	1624.3	1620.4	1627.2
25°	1578.7	1581.6	1582.6	1585.5	1595.2	1603.9	1601.0	1593.2	1579.7	1576.7	1578.7
27.5°	1533.1	1535.0	1537.9	1536.9	1550.5	1559.3	1553.4	1546.6	1527.2	1524.3	1522.4
30°	1481.6	1484.5	1486.4	1485.5	1496.2	1505.9	1500.0	1491.3	1465.1	1463.1	1447.6
32.5°	1423.3	1426.3	1428.2	1428.2	1443.7	1447.6	1436.9	1424.3	1396.2	1389.4	1375.8
35°	1359.3	1362.2	1363.1	1363.1	1378.7	1377.7	1364.1	1346.6	1315.6	1306.8	1283.5
37.5°	1290.3	1292.3	1293.2	1299.1	1305.9	1300.0	1282.6	1260.2	1236.9	1212.7	1187.4
40°	1212.7	1215.6	1217.5	1221.4	1228.2	1221.4	1196.2	1169.0	1143.7	1116.5	1091.3
42.5°	1133.0	1141.8	1139.8	1138.9	1142.8	1124.3	1104.9	1073.8	1048.6	1020.4	995.2
45°	1046.6	1045.7	1050.5	1052.5	1051.5	1036.0	1008.8	980.6	955.4	926.2	904.9
47.5°	955.4	954.4	958.3	960.2	954.4	937.9	916.5	884.5	863.1	837.9	821.4
50°	859.2	859.2	865.1	859.2	856.3	839.8	822.4	790.3	773.8	751.5	741.8
52.5°	763.1	771.9	766.0	764.1	761.2	744.7	731.1	704.9	691.3	681.6	669.9
55°	668.0	677.7	673.8	670.9	669.9	656.3	643.7	624.3	615.6	608.8	602.0
57.5°	587.4	586.4	584.5	581.6	582.5	571.9	559.2	548.6	544.7	541.8	543.7
60°	494.2	502.0	499.0	500.0	501.0	499.0	488.4	481.6	482.5	483.5	486.4
62.5°	417.5	424.3	429.1	425.3	427.2	430.1	424.3	422.3	426.2	430.1	434.0
65°	346.6	353.4	358.3	357.3	363.1	368.9	368.0	369.9	378.7	383.5	388.4
67.5°	282.5	289.3	296.1	297.1	305.8	314.6	318.5	325.3	335.0	341.8	347.6
70°	227.2	233.0	240.8	245.6	257.3	268.9	275.7	289.3	295.2	304.9	308.7
72.5°	177.7	182.5	193.2	204.9	214.6	229.1	242.7	254.4	263.1	273.8	278.6
75°	138.8	140.8	152.4	166.0	179.6	196.1	210.7	223.3	235.0	245.6	253.4
77.5°	101.9	104.9	115.5	134.0	149.5	167.0	183.5	197.1	209.7	220.4	231.1
80°	70.9	76.7	88.4	106.8	124.3	143.7	159.2	174.8	188.4	199.0	209.7
82.5°	45.6	50.5	67.0	85.4	103.9	123.3	139.8	155.3	169.9	181.6	191.3
85°	25.2	32.0	48.5	68.0	86.4	105.8	123.3	138.8	153.4	164.1	173.8
87.5°	9.7	19.4	35.0	53.4	71.8	90.3	108.7	123.3	137.9	149.5	158.3
90°	0.0	11.7	26.2	44.7	63.1	81.6	99.0	114.6	128.2	138.8	148.5
92.5°	1.0	7.8	20.4	35.9	53.4	70.9	87.4	102.9	116.5	127.2	135.9
95°	1.0	5.8	16.5	31.1	46.6	63.1	78.6	93.2	105.8	116.5	125.2
97.5°	1.0	3.9	13.6	27.2	40.8	57.3	71.8	85.4	97.1	107.8	114.6
100°	1.0	3.9	11.7	23.3	36.9	51.5	65.1	78.6	89.3	98.1	105.8
102.5°	1.0	2.9	9.7	20.4	33.0	45.6	59.2	71.8	81.6	90.3	98.1
105°	1.0	2.9	8.7	17.5	29.1	41.7	53.4	65.1	75.7	83.5	90.3
107.5°	1.0	1.9	7.8	14.6	25.2	37.9	49.5	59.2	68.9	76.7	83.5
110°	1.0	1.9	6.8	13.6	22.3	34.0	44.7	54.4	63.1	70.9	76.7



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CATALOG NUMBER: 4SNLED-LD5-53SL-LN-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.0	1.9	5.8	12.6	20.4	30.1	40.8	49.5	58.3	65.1	70.9
115°	1.0	1.9	5.8	11.7	18.4	26.2	35.9	45.6	52.4	60.2	65.1
117.5°	1.0	1.9	4.9	9.7	17.5	24.3	33.0	40.8	48.5	55.3	60.2
120°	1.0	1.9	4.9	8.7	15.5	22.3	29.1	36.9	44.7	49.5	54.4
122.5°	1.0	1.9	3.9	8.7	13.6	20.4	26.2	33.0	39.8	45.6	50.5
125°	1.0	1.9	3.9	7.8	12.6	18.4	24.3	29.1	35.9	40.8	45.6
127.5°	1.0	1.9	3.9	6.8	11.7	16.5	22.3	27.2	32.0	36.9	40.8
130°	1.0	1.9	2.9	5.8	10.7	14.6	19.4	25.2	29.1	33.0	36.9
132.5°	1.0	1.9	2.9	5.8	8.7	12.6	17.5	22.3	26.2	30.1	33.0
135°	1.0	1.9	2.9	4.9	7.8	11.7	14.6	19.4	23.3	27.2	30.1
137.5°	1.0	1.9	2.9	4.9	6.8	9.7	12.6	16.5	20.4	23.3	27.2
140°	1.0	1.9	2.9	3.9	5.8	8.7	11.7	13.6	17.5	20.4	23.3
142.5°	1.0	1.9	2.9	3.9	5.8	7.8	9.7	11.7	14.6	17.5	20.4
145°	1.0	1.9	2.9	3.9	4.9	6.8	8.7	10.7	11.7	14.6	16.5
147.5°	1.0	1.9	2.9	3.9	3.9	5.8	7.8	8.7	10.7	11.7	13.6
150°	1.0	1.9	2.9	2.9	3.9	4.9	6.8	7.8	8.7	10.7	11.7
152.5°	1.0	1.9	2.9	2.9	3.9	4.9	5.8	6.8	7.8	8.7	9.7
155°	1.0	1.9	2.9	2.9	2.9	3.9	4.9	5.8	6.8	7.8	8.7
157.5°	1.9	1.9	1.9	2.9	2.9	3.9	3.9	4.9	5.8	5.8	6.8
160°	1.9	1.9	1.9	2.9	2.9	2.9	3.9	3.9	4.9	4.9	5.8
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°	1765.1	1765.1	1765.1	1765.1	1765.1	1765.1	1765.1	1765.1	1765.1	1765.1	1765.1
2.5°	1754.4	1757.3	1766.1	1766.1	1764.1	1762.2	1762.2	1759.3	1761.2	1765.1	1763.2
5°	1754.4	1757.3	1766.1	1766.1	1764.1	1762.2	1761.2	1758.3	1761.2	1765.1	1763.2
7.5°	1748.6	1752.5	1761.2	1761.2	1759.3	1758.3	1756.4	1754.4	1757.3	1761.2	1759.3
10°	1740.8	1744.7	1753.4	1753.4	1751.5	1751.5	1748.6	1746.7	1750.5	1753.4	1752.5
12.5°	1729.2	1734.0	1741.8	1740.8	1738.9	1739.9	1736.9	1733.1	1736.9	1739.9	1740.8
15°	1712.7	1718.5	1726.3	1724.3	1721.4	1723.3	1718.5	1715.6	1718.5	1724.3	1723.3
17.5°	1691.3	1695.2	1701.0	1701.0	1698.1	1696.2	1694.2	1691.3	1693.3	1697.1	1698.1
20°	1661.2	1666.1	1669.0	1666.1	1665.1	1662.2	1658.3	1655.4	1659.3	1665.1	1666.1
22.5°	1621.4	1622.4	1629.2	1622.4	1617.5	1616.6	1612.7	1606.8	1612.7	1617.5	1618.5
25°	1571.9	1576.7	1573.8	1562.2	1562.2	1554.4	1552.5	1549.6	1550.5	1559.3	1563.2
27.5°	1508.8	1510.7	1503.0	1493.2	1484.5	1479.7	1472.9	1473.8	1473.8	1485.5	1489.4
30°	1439.8	1429.2	1422.4	1406.8	1400.0	1388.4	1386.4	1386.4	1384.5	1390.3	1407.8
32.5°	1357.3	1342.8	1332.1	1317.5	1305.9	1294.2	1288.4	1291.3	1290.3	1304.9	1310.7
35°	1267.0	1258.3	1236.0	1217.5	1210.7	1193.2	1193.2	1184.5	1190.3	1206.8	1213.6
37.5°	1171.9	1158.3	1139.8	1119.4	1114.6	1101.0	1096.1	1091.3	1103.9	1106.8	1113.6
40°	1074.8	1062.2	1044.7	1025.3	1025.3	1008.8	1008.8	1008.8	1009.7	1015.6	1028.2
42.5°	982.6	969.0	953.4	939.8	937.9	925.3	925.3	924.3	926.2	931.1	942.7
45°	893.2	882.5	866.0	859.2	860.2	846.6	849.5	846.6	850.5	855.4	859.2
47.5°	810.7	803.9	797.1	787.4	784.5	783.5	778.7	774.8	781.6	781.6	787.4
50°	734.0	730.1	726.2	720.4	721.4	717.5	711.7	711.7	716.5	717.5	721.4
52.5°	667.0	662.2	657.3	658.3	659.2	657.3	654.4	651.5	654.4	656.3	661.2
55°	600.0	596.1	601.0	599.0	601.0	599.0	597.1	595.2	600.0	597.1	602.0
57.5°	539.8	543.7	545.6	541.8	544.7	542.7	543.7	540.8	544.7	546.6	545.6
60°	484.5	490.3	487.4	488.4	492.2	490.3	486.4	489.3	493.2	494.2	493.2
62.5°	434.0	440.8	443.7	441.8	442.7	440.8	443.7	439.8	444.7	446.6	443.7
65°	388.4	396.1	398.1	398.1	398.1	396.1	399.0	400.0	402.0	402.0	400.0
67.5°	349.5	356.3	358.3	360.2	358.3	356.3	356.3	357.3	361.2	363.1	361.2
70°	314.6	321.4	322.3	322.3	323.3	325.3	321.4	323.3	326.2	327.2	326.2
72.5°	284.5	291.3	293.2	292.2	293.2	294.2	294.2	292.2	295.2	297.1	297.1
75°	260.2	264.1	266.0	266.0	267.0	268.0	268.0	267.0	268.9	269.9	270.9
77.5°	237.9	240.8	243.7	243.7	244.7	243.7	245.6	245.6	246.6	247.6	248.6
80°	215.5	219.4	221.4	222.3	224.3	225.2	225.2	225.2	226.2	227.2	227.2
82.5°	198.1	201.0	203.9	206.8	206.8	207.8	207.8	207.8	208.7	208.7	209.7
85°	180.6	184.5	187.4	189.3	190.3	191.3	191.3	192.2	192.2	192.2	193.2
87.5°	165.1	169.9	171.8	173.8	174.8	176.7	176.7	176.7	177.7	177.7	177.7
90°	154.4	159.2	161.2	163.1	164.1	165.1	165.1	166.0	166.0	167.0	167.0
92.5°	141.8	146.6	150.5	150.5	151.5	153.4	152.4	152.4	153.4	154.4	154.4
95°	132.0	135.9	138.8	139.8	140.8	140.8	140.8	141.8	140.8	141.8	141.8
97.5°	120.4	124.3	127.2	129.1	130.1	130.1	130.1	131.1	130.1	131.1	131.1
100°	110.7	114.6	117.5	118.4	120.4	120.4	120.4	120.4	120.4	120.4	121.4
102.5°	102.9	106.8	108.7	109.7	110.7	111.7	111.7	111.7	111.7	112.6	112.6
105°	95.1	99.0	101.0	101.9	102.9	103.9	103.9	103.9	104.9	104.9	103.9
107.5°	88.4	91.3	93.2	95.1	96.1	96.1	97.1	97.1	97.1	97.1	97.1
110°	81.6	84.5	87.4	89.3	89.3	90.3	90.3	91.3	91.3	90.3	91.3





TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-53SL-LN-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	74.8	78.6	80.6	82.5	83.5	84.5	84.5	84.5	84.5	84.5	84.5
115°	68.9	72.8	74.8	76.7	77.7	78.6	78.6	78.6	78.6	78.6	78.6
117.5°	64.1	68.0	69.9	70.9	71.8	72.8	73.8	73.8	73.8	73.8	72.8
120°	59.2	62.1	64.1	66.0	67.0	68.0	68.0	68.0	68.0	68.0	68.0
122.5°	54.4	57.3	59.2	61.2	62.1	63.1	63.1	63.1	63.1	63.1	63.1
125°	49.5	52.4	54.4	56.3	57.3	58.3	58.3	58.3	58.3	58.3	58.3
127.5°	44.7	47.6	50.5	51.5	52.4	53.4	53.4	53.4	54.4	53.4	53.4
130°	39.8	42.7	45.6	46.6	47.6	48.5	49.5	49.5	49.5	49.5	48.5
132.5°	35.9	38.8	40.8	41.7	43.7	43.7	44.7	44.7	44.7	44.7	43.7
135°	33.0	35.0	36.9	37.9	39.8	39.8	39.8	40.8	40.8	39.8	38.8
137.5°	29.1	31.1	33.0	34.0	35.0	35.9	35.9	36.9	35.9	35.9	35.9
140°	27.2	28.2	30.1	31.1	32.0	32.0	32.0	33.0	33.0	32.0	32.0
142.5°	23.3	25.2	27.2	28.2	29.1	29.1	29.1	29.1	29.1	29.1	29.1
145°	19.4	22.3	23.3	25.2	25.2	26.2	26.2	26.2	26.2	26.2	25.2
147.5°	16.5	18.4	21.4	22.3	22.3	23.3	23.3	23.3	23.3	23.3	22.3
150°	12.6	14.6	17.5	19.4	19.4	20.4	20.4	20.4	20.4	19.4	19.4
152.5°	10.7	12.6	13.6	15.5	16.5	16.5	16.5	17.5	16.5	16.5	16.5
155°	9.7	10.7	11.7	12.6	13.6	14.6	14.6	14.6	14.6	13.6	13.6
157.5°	7.8	8.7	9.7	10.7	11.7	12.6	12.6	12.6	12.6	12.6	11.7
160°	5.8	6.8	7.8	7.8	8.7	9.7	10.7	9.7	9.7	9.7	9.7
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: 4SNLED-LD5-53SL-LN-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1765.1	1765.1	1765.1	1765.1	1765.1	1765.1	1765.1	1765.1	1765.1	1765.1	1765.1
2.5°	1761.2	1760.2	1763.2	1758.3	1743.7	1747.6	1745.7	1754.4	1756.4	1758.3	1767.0
5°	1761.2	1760.2	1762.2	1758.3	1742.8	1745.7	1743.7	1752.5	1754.4	1755.4	1764.1
7.5°	1757.3	1756.4	1759.3	1754.4	1737.9	1741.8	1738.9	1747.6	1748.6	1749.6	1757.3
10°	1749.6	1748.6	1750.5	1746.7	1730.1	1734.0	1730.1	1738.9	1738.9	1740.8	1746.7
12.5°	1737.9	1736.0	1739.9	1735.0	1716.6	1721.4	1719.5	1725.3	1726.3	1727.2	1733.1
15°	1721.4	1719.5	1722.4	1719.5	1703.0	1703.9	1701.0	1709.8	1710.7	1708.8	1714.6
17.5°	1697.1	1695.2	1701.0	1699.1	1682.6	1686.5	1685.5	1687.4	1690.3	1685.5	1693.3
20°	1667.0	1669.0	1670.9	1671.9	1659.3	1659.3	1658.3	1662.2	1665.1	1661.2	1667.0
22.5°	1622.4	1627.2	1633.1	1635.0	1626.3	1625.3	1631.1	1629.2	1632.1	1630.1	1634.0
25°	1566.1	1575.8	1581.6	1587.4	1582.6	1584.5	1593.2	1595.2	1595.2	1594.2	1598.1
27.5°	1496.2	1508.8	1519.5	1532.1	1527.2	1531.1	1545.7	1547.6	1551.5	1547.6	1555.4
30°	1412.7	1424.3	1444.7	1463.1	1465.1	1470.9	1491.3	1493.2	1503.9	1500.0	1503.0
32.5°	1329.2	1335.0	1358.3	1376.7	1388.4	1403.0	1425.3	1429.2	1443.7	1446.6	1446.6
35°	1224.3	1240.8	1262.2	1288.4	1302.9	1318.5	1348.6	1354.4	1375.8	1382.6	1390.3
37.5°	1136.0	1151.5	1165.1	1192.3	1218.5	1236.0	1260.2	1274.8	1297.1	1309.7	1319.5
40°	1041.8	1054.4	1069.0	1096.1	1118.5	1144.7	1169.0	1186.4	1214.6	1229.2	1241.8
42.5°	952.5	962.2	977.7	997.1	1020.4	1049.5	1072.8	1093.2	1123.3	1143.7	1158.3
45°	872.8	878.7	892.3	906.8	927.2	957.3	979.6	1005.9	1030.1	1051.5	1069.0
47.5°	798.1	805.8	812.6	822.4	840.8	859.2	885.5	910.7	935.0	958.3	975.8
50°	729.1	729.1	739.8	746.6	759.2	775.8	796.1	813.6	843.7	860.2	882.5
52.5°	662.2	666.0	671.9	675.7	685.5	696.1	712.6	727.2	752.4	768.0	789.3
55°	602.9	606.8	609.7	611.7	617.5	630.1	635.9	647.6	665.1	677.7	696.1
57.5°	546.6	548.6	551.5	552.4	553.4	561.2	566.0	568.9	586.4	599.0	614.6
60°	495.2	495.2	498.1	497.1	496.1	500.0	499.0	502.0	512.6	520.4	527.2
62.5°	446.6	446.6	447.6	445.6	444.7	444.7	440.8	443.7	446.6	447.6	452.4
65°	402.0	406.8	402.9	403.9	398.1	396.1	394.2	388.4	387.4	383.5	385.4
67.5°	362.1	366.0	362.1	362.1	357.3	353.4	348.6	338.8	335.9	328.2	326.2
70°	330.1	327.2	329.1	326.2	320.4	315.5	308.7	301.0	291.3	281.6	274.8
72.5°	299.0	299.0	297.1	294.2	291.3	281.6	273.8	265.1	253.4	240.8	231.1
75°	268.9	269.9	269.9	267.0	262.1	253.4	244.7	232.0	219.4	204.9	192.2
77.5°	247.6	247.6	247.6	242.7	237.9	230.1	219.4	205.8	192.2	174.8	160.2
80°	227.2	226.2	226.2	220.4	215.5	206.8	196.1	182.5	168.0	149.5	133.0
82.5°	210.7	209.7	207.8	202.9	196.1	187.4	176.7	162.1	146.6	130.1	109.7
85°	193.2	192.2	190.3	185.4	178.6	170.9	159.2	144.7	129.1	110.7	91.3
87.5°	177.7	176.7	173.8	170.9	163.1	154.4	142.7	129.1	112.6	95.1	75.7
90°	167.0	165.1	163.1	159.2	152.4	142.7	131.1	116.5	100.0	82.5	63.1
92.5°	154.4	153.4	150.5	146.6	140.8	131.1	119.4	105.8	89.3	72.8	54.4
95°	141.8	140.8	138.8	135.0	129.1	120.4	109.7	96.1	80.6	64.1	47.6
97.5°	130.1	130.1	127.2	124.3	117.5	110.7	100.0	87.4	72.8	58.3	42.7
100°	120.4	120.4	117.5	113.6	108.7	101.9	91.3	79.6	66.0	52.4	36.9
102.5°	111.7	110.7	108.7	104.9	100.0	93.2	83.5	72.8	60.2	46.6	33.0
105°	103.9	102.9	101.0	97.1	93.2	85.4	77.7	67.0	54.4	41.7	29.1
107.5°	96.1	95.1	94.2	90.3	85.4	78.6	70.9	60.2	49.5	37.9	26.2
110°	89.3	88.4	86.4	82.5	77.7	71.8	64.1	55.3	44.7	34.0	23.3



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-53SL-LN-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	83.5	82.5	80.6	76.7	72.8	66.0	59.2	49.5	40.8	31.1	20.4
115°	77.7	76.7	74.8	70.9	66.0	60.2	53.4	45.6	35.9	27.2	18.4
117.5°	71.8	70.9	68.9	66.0	61.2	55.3	48.5	40.8	32.0	25.2	16.5
120°	67.0	65.1	63.1	60.2	55.3	50.5	43.7	36.9	29.1	22.3	14.6
122.5°	62.1	60.2	58.3	55.3	50.5	45.6	38.8	33.0	27.2	20.4	13.6
125°	56.3	55.3	53.4	50.5	45.6	40.8	35.9	30.1	24.3	18.4	11.7
127.5°	51.5	50.5	48.5	44.7	40.8	36.9	32.0	27.2	21.4	15.5	10.7
130°	47.6	45.6	43.7	40.8	37.9	34.0	29.1	24.3	19.4	13.6	9.7
132.5°	42.7	40.8	38.8	36.9	34.0	30.1	26.2	21.4	17.5	12.6	8.7
135°	38.8	36.9	35.0	33.0	30.1	27.2	23.3	19.4	15.5	11.7	7.8
137.5°	34.0	33.0	32.0	30.1	27.2	24.3	21.4	16.5	13.6	10.7	6.8
140°	31.1	30.1	29.1	26.2	24.3	21.4	18.4	14.6	11.7	8.7	5.8
142.5°	28.2	27.2	25.2	23.3	21.4	19.4	15.5	13.6	10.7	7.8	5.8
145°	24.3	23.3	22.3	20.4	18.4	15.5	13.6	11.7	9.7	6.8	4.9
147.5°	22.3	21.4	19.4	17.5	15.5	13.6	12.6	10.7	7.8	5.8	3.9
150°	18.4	17.5	16.5	14.6	13.6	12.6	10.7	8.7	6.8	4.9	3.9
152.5°	15.5	14.6	13.6	13.6	11.7	10.7	8.7	7.8	5.8	4.9	2.9
155°	13.6	13.6	12.6	11.7	9.7	8.7	7.8	5.8	4.9	3.9	2.9
157.5°	11.7	10.7	9.7	9.7	8.7	7.8	5.8	4.9	3.9	3.9	2.9
160°	9.7	8.7	8.7	7.8	6.8	5.8	4.9	4.9	3.9	2.9	2.9
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: 4SNLED-LD5-53SL-LN-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1765.1	1765.1	1765.1	1765.1	1765.1	1765.1	1765.1	1765.1	1765.1	1765.1	1765.1
2.5°	1768.0	1757.3	1767.0	1779.7	1779.7	1777.7	1775.8	1779.7	1789.4	1785.5	1773.8
5°	1765.1	1754.4	1763.2	1775.8	1775.8	1772.9	1770.9	1773.8	1784.5	1779.7	1769.0
7.5°	1759.3	1749.6	1755.4	1767.0	1767.0	1764.1	1762.2	1766.1	1774.8	1770.0	1758.3
10°	1748.6	1737.9	1744.7	1755.4	1754.4	1752.5	1749.6	1754.4	1762.2	1755.4	1741.8
12.5°	1735.0	1724.3	1730.1	1739.9	1738.9	1735.0	1733.1	1736.0	1742.8	1738.9	1724.3
15°	1716.6	1705.9	1710.7	1720.4	1717.5	1714.6	1710.7	1711.7	1720.4	1713.6	1698.1
17.5°	1694.2	1682.6	1686.5	1695.2	1692.3	1689.4	1684.5	1685.5	1695.2	1685.5	1669.0
20°	1667.0	1654.4	1657.3	1668.0	1663.2	1658.3	1653.4	1653.4	1663.2	1652.5	1634.0
22.5°	1637.9	1625.3	1627.2	1635.0	1631.1	1622.4	1617.5	1620.4	1625.3	1611.7	1592.3
25°	1602.0	1585.5	1588.4	1596.2	1593.2	1581.6	1576.7	1578.7	1576.7	1566.1	1545.7
27.5°	1560.2	1542.8	1544.7	1549.6	1545.7	1535.0	1529.2	1530.1	1526.3	1512.7	1489.4
30°	1507.8	1499.1	1498.1	1501.0	1495.2	1484.5	1477.7	1475.8	1474.8	1455.4	1427.2
32.5°	1454.4	1446.6	1441.8	1445.7	1438.9	1428.2	1416.5	1416.5	1406.8	1388.4	1364.1
35°	1400.0	1387.4	1382.6	1385.5	1377.7	1364.1	1354.4	1349.6	1335.0	1311.7	1285.5
37.5°	1330.1	1321.4	1315.6	1318.5	1309.7	1300.0	1281.6	1276.7	1261.2	1229.2	1196.2
40°	1254.4	1247.6	1241.8	1244.7	1235.0	1220.4	1203.9	1196.2	1178.7	1142.8	1116.5
42.5°	1172.8	1169.9	1163.1	1173.8	1154.4	1139.8	1123.3	1110.7	1093.2	1054.4	1024.3
45°	1086.4	1093.2	1077.7	1080.6	1068.0	1055.4	1037.9	1019.4	1002.0	965.1	931.1
47.5°	995.2	1000.0	989.3	991.3	977.7	966.0	950.5	927.2	907.8	875.8	845.7
50°	901.0	899.1	899.1	897.1	886.4	871.9	856.3	835.0	815.6	786.4	761.2
52.5°	801.0	804.9	806.8	811.7	798.1	789.3	765.1	746.6	732.1	702.0	680.6
55°	704.9	718.5	714.6	716.5	701.0	694.2	674.8	660.2	638.9	621.4	607.8
57.5°	617.5	620.4	622.3	625.3	618.5	604.9	589.3	577.7	561.2	546.6	536.9
60°	533.0	533.0	534.0	538.9	532.1	520.4	508.8	500.0	488.4	479.6	473.8
62.5°	453.4	460.2	461.2	457.3	448.6	442.7	435.0	430.1	422.3	419.4	417.5
65°	379.6	379.6	379.6	381.6	376.7	372.8	368.0	367.0	369.9	366.0	368.0
67.5°	317.5	314.6	312.6	313.6	311.7	309.7	308.7	311.7	317.5	317.5	322.3
70°	264.1	258.3	254.4	254.4	254.4	255.3	258.3	264.1	273.8	277.7	284.5
72.5°	220.4	207.8	201.9	201.9	202.9	206.8	215.5	226.2	235.0	242.7	251.5
75°	178.6	166.0	157.3	156.3	158.3	164.1	176.7	186.4	201.0	211.7	222.3
77.5°	144.7	129.1	118.4	117.5	120.4	129.1	144.7	157.3	173.8	185.4	197.1
80°	115.5	98.1	89.3	83.5	88.4	99.0	116.5	132.0	147.6	163.1	177.7
82.5°	92.2	75.7	62.1	56.3	62.1	76.7	93.2	111.7	127.2	143.7	158.3
85°	72.8	55.3	39.8	34.0	40.8	56.3	74.8	93.2	110.7	127.2	141.8
87.5°	57.3	39.8	24.3	16.5	25.2	41.7	59.2	77.7	96.1	112.6	127.2
90°	44.7	28.2	13.6	1.9	14.6	30.1	47.6	65.1	83.5	100.0	114.6
92.5°	37.9	21.4	7.8	0.0	8.7	22.3	38.8	56.3	72.8	89.3	103.9
95°	32.0	17.5	5.8	0.0	5.8	17.5	32.0	47.6	64.1	80.6	95.1
97.5°	27.2	13.6	3.9	0.0	3.9	13.6	26.2	41.7	56.3	71.8	85.4
100°	23.3	11.7	2.9	0.0	2.9	10.7	22.3	35.9	50.5	65.1	77.7
102.5°	20.4	9.7	1.9	0.0	1.9	8.7	18.4	31.1	43.7	57.3	69.9
105°	17.5	7.8	1.9	0.0	1.0	6.8	15.5	27.2	38.8	51.5	63.1
107.5°	15.5	6.8	1.9	0.0	1.0	5.8	13.6	23.3	35.0	45.6	56.3
110°	13.6	5.8	1.9	0.0	1.0	3.9	11.7	20.4	30.1	40.8	51.5



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-53SL-LN-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	11.7	4.9	1.0	0.0	0.0	2.9	9.7	17.5	26.2	36.9	45.6
115°	10.7	4.9	1.0	0.0	0.0	1.9	7.8	15.5	23.3	33.0	40.8
117.5°	9.7	3.9	1.0	0.0	1.0	1.9	6.8	13.6	20.4	28.2	36.9
120°	8.7	3.9	1.0	0.0	1.0	1.0	4.9	11.7	17.5	25.2	32.0
122.5°	7.8	3.9	1.0	0.0	1.0	1.0	3.9	9.7	15.5	22.3	28.2
125°	6.8	2.9	1.9	1.0	1.0	1.0	2.9	7.8	13.6	18.4	25.2
127.5°	6.8	2.9	1.9	1.0	1.0	1.0	1.9	6.8	10.7	16.5	22.3
130°	5.8	2.9	1.9	1.0	1.0	1.0	1.0	4.9	9.7	13.6	18.4
132.5°	4.9	2.9	1.9	1.0	1.0	1.0	1.0	2.9	6.8	11.7	15.5
135°	4.9	2.9	1.9	1.0	1.0	1.0	1.0	1.9	4.9	8.7	12.6
137.5°	3.9	1.9	1.9	1.0	1.0	1.0	1.0	1.0	3.9	6.8	9.7
140°	3.9	1.9	1.9	1.0	1.0	1.0	1.0	1.0	2.9	4.9	7.8
142.5°	2.9	1.9	1.9	1.0	1.0	1.0	1.0	1.0	1.9	3.9	5.8
145°	2.9	1.9	1.9	1.0	1.0	1.0	1.0	1.0	1.0	1.9	3.9
147.5°	2.9	2.9	1.9	1.0	1.0	1.0	1.0	1.0	1.0	1.9	2.9
150°	2.9	1.9	1.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.9
152.5°	2.9	1.9	1.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.9
155°	2.9	1.9	1.9	1.0	1.0	1.0	1.0	1.0	1.0	1.9	1.9
157.5°	2.9	1.9	1.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.9
160°	2.9	1.9	1.9	1.0	1.9	1.0	1.9	1.9	1.9	1.9	1.9
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: 4SNLED-LD5-53SL-LN-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1765.1	1765.1	1765.1	1765.1	1765.1	1765.1	1765.1	1765.1	1765.1	1765.1	1765.1
2.5°	1770.0	1751.5	1761.2	1758.3	1762.2	1770.0	1769.0	1767.0	1767.0	1764.1	1760.2
5°	1764.1	1746.7	1755.4	1750.5	1755.4	1762.2	1761.2	1758.3	1760.2	1755.4	1750.5
7.5°	1752.5	1736.9	1744.7	1740.8	1744.7	1751.5	1748.6	1747.6	1749.6	1741.8	1738.9
10°	1738.9	1721.4	1730.1	1725.3	1730.1	1735.0	1733.1	1729.2	1733.1	1725.3	1722.4
12.5°	1717.5	1703.0	1708.8	1706.8	1709.8	1714.6	1710.7	1707.8	1709.8	1703.0	1697.1
15°	1694.2	1679.7	1684.5	1681.6	1683.5	1689.4	1682.6	1681.6	1679.7	1672.9	1670.9
17.5°	1664.1	1650.5	1655.4	1650.5	1653.4	1651.5	1650.5	1645.7	1645.7	1637.9	1632.1
20°	1627.2	1615.6	1612.7	1608.8	1612.7	1608.8	1603.0	1599.1	1598.1	1590.3	1585.5
22.5°	1584.5	1570.9	1572.9	1562.2	1563.2	1557.3	1547.6	1543.7	1539.8	1531.1	1524.3
25°	1533.1	1519.5	1509.8	1503.0	1494.2	1493.2	1480.6	1470.9	1469.9	1459.3	1458.3
27.5°	1474.8	1459.3	1451.5	1435.0	1424.3	1415.6	1404.9	1395.2	1390.3	1378.7	1370.9
30°	1407.8	1390.3	1370.9	1359.3	1342.8	1336.0	1317.5	1305.9	1302.0	1289.4	1283.5
32.5°	1332.1	1313.6	1298.1	1275.8	1257.3	1247.6	1229.2	1217.5	1212.7	1199.1	1191.3
35°	1249.5	1229.2	1210.7	1189.4	1174.8	1158.3	1136.0	1124.3	1113.6	1108.8	1102.9
37.5°	1163.1	1140.8	1119.4	1098.1	1085.5	1066.0	1046.6	1038.9	1026.2	1021.4	1015.6
40°	1073.8	1051.5	1031.1	1010.7	996.1	978.7	961.2	958.3	944.7	939.8	935.9
42.5°	985.5	962.2	938.9	924.3	913.6	896.1	884.5	881.6	869.9	867.0	867.0
45°	905.9	876.7	857.3	844.7	835.9	821.4	811.7	809.7	800.0	798.1	798.1
47.5°	820.4	793.2	778.7	770.9	763.1	752.4	746.6	746.6	736.9	735.0	734.0
50°	740.8	715.6	704.9	697.1	696.1	688.4	683.5	681.6	681.6	674.8	675.7
52.5°	665.1	652.4	643.7	638.9	633.0	628.2	624.3	624.3	621.4	616.5	618.5
55°	595.2	580.6	581.6	577.7	574.8	571.9	572.8	567.0	566.0	562.2	565.1
57.5°	525.3	525.3	523.3	520.4	515.5	517.5	517.5	517.5	512.6	509.7	512.6
60°	466.0	468.9	464.1	467.0	465.1	466.0	464.1	464.1	461.2	460.2	461.2
62.5°	413.6	418.5	416.5	420.4	418.5	419.4	421.4	417.5	415.5	413.6	415.5
65°	367.0	372.8	371.9	374.8	375.7	376.7	377.7	375.7	373.8	371.9	370.9
67.5°	326.2	332.0	335.9	336.9	337.9	340.8	339.8	337.9	335.9	333.0	332.0
70°	289.3	297.1	302.0	303.9	307.8	305.8	305.8	304.9	302.9	300.0	299.0
72.5°	258.3	267.0	271.9	273.8	277.7	277.7	276.7	275.7	273.8	270.9	269.9
75°	231.1	238.8	245.6	249.5	252.4	252.4	251.5	250.5	248.6	246.6	245.6
77.5°	209.7	216.5	222.3	227.2	229.1	230.1	229.1	227.2	227.2	226.2	225.2
80°	188.4	196.1	201.9	206.8	209.7	209.7	208.7	209.7	207.8	206.8	205.8
82.5°	169.9	178.6	185.4	190.3	192.2	193.2	192.2	193.2	191.3	191.3	191.3
85°	153.4	162.1	169.9	173.8	176.7	177.7	177.7	177.7	176.7	176.7	176.7
87.5°	139.8	148.5	156.3	160.2	163.1	164.1	164.1	165.1	163.1	163.1	163.1
90°	127.2	135.9	143.7	147.6	150.5	152.4	152.4	153.4	152.4	151.5	151.5
92.5°	115.5	125.2	133.0	136.9	139.8	142.7	142.7	143.7	141.8	141.8	141.8
95°	105.8	115.5	122.3	127.2	130.1	132.0	133.0	133.0	132.0	132.0	132.0
97.5°	97.1	105.8	112.6	117.5	120.4	121.4	122.3	123.3	122.3	122.3	122.3
100°	88.4	97.1	103.9	107.8	111.7	112.6	113.6	114.6	114.6	113.6	113.6
102.5°	80.6	89.3	95.1	100.0	102.9	104.9	105.8	105.8	105.8	105.8	105.8
105°	72.8	81.6	87.4	92.2	95.1	97.1	98.1	99.0	99.0	98.1	98.1
107.5°	66.0	73.8	80.6	84.5	88.4	90.3	91.3	91.3	92.2	91.3	91.3
110°	59.2	68.0	73.8	77.7	81.6	83.5	84.5	85.4	85.4	85.4	85.4



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-53SL-LN-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	54.4	61.2	67.0	70.9	74.8	76.7	77.7	78.6	79.6	78.6	78.6
115°	48.5	55.3	61.2	65.1	68.0	69.9	71.8	72.8	72.8	73.8	72.8
117.5°	43.7	49.5	55.3	59.2	62.1	65.1	66.0	67.0	68.0	67.0	67.0
120°	38.8	44.7	49.5	53.4	56.3	59.2	60.2	61.2	62.1	61.2	61.2
122.5°	35.0	39.8	44.7	48.5	51.5	53.4	55.3	55.3	56.3	56.3	56.3
125°	31.1	35.9	39.8	43.7	46.6	48.5	49.5	50.5	50.5	51.5	51.5
127.5°	27.2	31.1	35.9	38.8	41.7	43.7	44.7	45.6	45.6	46.6	46.6
130°	23.3	27.2	31.1	34.0	36.9	38.8	39.8	40.8	41.7	41.7	41.7
132.5°	20.4	24.3	27.2	30.1	32.0	34.0	35.9	36.9	36.9	36.9	36.9
135°	16.5	20.4	23.3	26.2	28.2	30.1	31.1	33.0	33.0	33.0	33.0
137.5°	13.6	17.5	20.4	22.3	24.3	26.2	27.2	28.2	29.1	29.1	29.1
140°	10.7	13.6	16.5	19.4	21.4	22.3	24.3	24.3	25.2	25.2	25.2
142.5°	7.8	10.7	12.6	15.5	17.5	19.4	20.4	21.4	21.4	21.4	21.4
145°	5.8	7.8	9.7	11.7	14.6	15.5	16.5	17.5	18.4	18.4	18.4
147.5°	3.9	5.8	6.8	8.7	10.7	12.6	13.6	14.6	15.5	15.5	15.5
150°	2.9	3.9	5.8	6.8	7.8	9.7	11.7	11.7	12.6	12.6	11.7
152.5°	1.9	2.9	3.9	4.9	5.8	6.8	8.7	8.7	9.7	9.7	9.7
155°	1.9	1.9	1.9	2.9	3.9	4.9	5.8	6.8	6.8	6.8	6.8
157.5°	1.9	1.9	1.9	1.9	1.9	2.9	3.9	4.9	4.9	4.9	4.9
160°	1.9	1.9	1.0	1.0	1.9	1.9	1.9	1.9	2.9	2.9	2.9
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: 4SNLED-LD5-53SL-LN-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1765.1	1765.1	1765.1	1765.1	1765.1	1765.1	1765.1	1765.1	1765.1	1765.1	1765.1
2.5°	1763.2	1765.1	1765.1	1763.2	1762.2	1766.1	1761.2	1742.8	1748.6	1750.5	1756.4
5°	1754.4	1756.4	1756.4	1756.4	1754.4	1758.3	1753.4	1735.0	1741.8	1744.7	1748.6
7.5°	1741.8	1742.8	1744.7	1743.7	1741.8	1747.6	1742.8	1724.3	1729.2	1734.0	1738.9
10°	1725.3	1725.3	1726.3	1728.2	1726.3	1731.1	1726.3	1709.8	1714.6	1717.5	1723.3
12.5°	1703.0	1704.9	1705.9	1704.9	1703.9	1707.8	1705.9	1690.3	1692.3	1698.1	1703.9
15°	1672.9	1672.9	1677.7	1675.8	1675.8	1679.7	1681.6	1664.1	1667.0	1675.8	1681.6
17.5°	1636.0	1636.9	1640.8	1642.8	1641.8	1648.6	1649.6	1636.0	1635.0	1645.7	1651.5
20°	1588.4	1590.3	1595.2	1599.1	1599.1	1606.8	1609.8	1601.0	1602.0	1613.6	1615.6
22.5°	1530.1	1530.1	1538.9	1544.7	1549.6	1554.4	1563.2	1555.4	1555.4	1570.9	1579.7
25°	1458.3	1465.1	1468.0	1479.7	1486.4	1500.0	1507.8	1508.8	1509.8	1524.3	1530.1
27.5°	1378.7	1380.6	1389.4	1403.0	1410.7	1423.3	1437.9	1440.8	1445.7	1465.1	1473.8
30°	1288.4	1294.2	1298.1	1317.5	1328.2	1344.7	1363.1	1369.9	1373.8	1400.0	1410.7
32.5°	1196.2	1198.1	1214.6	1225.3	1237.9	1255.4	1276.7	1289.4	1297.1	1324.3	1339.8
35°	1103.9	1107.8	1121.4	1135.0	1147.6	1165.1	1187.4	1204.9	1218.5	1242.8	1263.1
37.5°	1019.4	1029.2	1032.1	1045.7	1055.4	1072.8	1088.4	1113.6	1127.2	1152.5	1178.7
40°	943.7	946.6	948.6	962.2	969.0	985.5	1007.8	1024.3	1042.7	1061.2	1092.3
42.5°	869.0	870.9	873.8	881.6	889.3	901.0	917.5	934.0	953.4	980.6	1001.0
45°	800.0	802.0	803.9	808.8	815.6	826.2	836.9	848.6	868.0	891.3	912.6
47.5°	735.9	739.8	739.8	740.8	745.7	754.4	762.2	776.7	787.4	800.0	824.3
50°	674.8	677.7	678.7	678.7	681.6	687.4	689.3	699.0	708.8	720.4	737.9
52.5°	617.5	617.5	616.5	620.4	620.4	624.3	625.3	631.1	637.9	650.5	658.3
55°	563.1	563.1	566.0	564.1	564.1	566.0	565.1	566.0	571.9	579.6	586.4
57.5°	510.7	509.7	512.6	510.7	509.7	511.7	513.6	509.7	510.7	518.5	518.5
60°	458.3	459.2	462.1	460.2	460.2	460.2	458.3	456.3	454.4	459.2	461.2
62.5°	416.5	413.6	416.5	413.6	415.5	414.6	412.6	408.7	409.7	407.8	405.8
65°	372.8	372.8	373.8	370.9	372.8	372.8	369.9	368.9	363.1	361.2	356.3
67.5°	335.0	335.0	335.9	334.0	334.0	335.0	332.0	329.1	323.3	320.4	313.6
70°	302.0	302.0	302.0	301.0	301.0	301.0	299.0	295.2	289.3	284.5	275.7
72.5°	271.9	272.8	271.9	271.9	274.8	271.9	268.9	265.1	260.2	250.5	242.7
75°	247.6	248.6	247.6	247.6	247.6	246.6	245.6	239.8	234.0	226.2	214.6
77.5°	226.2	226.2	227.2	226.2	226.2	225.2	222.3	217.5	210.7	203.9	190.3
80°	205.8	206.8	207.8	208.7	206.8	205.8	202.9	199.0	190.3	182.5	168.9
82.5°	191.3	190.3	191.3	192.2	190.3	189.3	186.4	181.6	174.8	164.1	150.5
85°	176.7	175.7	175.7	176.7	175.7	173.8	170.9	166.0	159.2	148.5	135.0
87.5°	162.1	163.1	164.1	163.1	162.1	160.2	157.3	152.4	144.7	135.9	121.4
90°	151.5	151.5	151.5	151.5	150.5	148.5	145.6	139.8	133.0	122.3	109.7
92.5°	141.8	141.8	141.8	141.8	140.8	137.9	135.0	130.1	122.3	111.7	100.0
95°	132.0	133.0	132.0	132.0	130.1	129.1	124.3	119.4	112.6	101.9	89.3
97.5°	121.4	122.3	121.4	121.4	120.4	118.4	115.5	109.7	102.9	93.2	81.6
100°	113.6	113.6	112.6	112.6	111.7	109.7	105.8	101.0	94.2	84.5	72.8
102.5°	104.9	105.8	104.9	104.9	102.9	101.0	98.1	93.2	86.4	76.7	66.0
105°	98.1	98.1	97.1	97.1	95.1	93.2	90.3	84.5	78.6	69.9	59.2
107.5°	91.3	91.3	90.3	90.3	88.4	86.4	82.5	77.7	71.8	63.1	53.4
110°	84.5	84.5	84.5	83.5	81.6	78.6	75.7	70.9	65.1	57.3	47.6





TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-53SL-LN-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	79.6	78.6	77.7	76.7	74.8	72.8	68.9	64.1	58.3	51.5	42.7
115°	72.8	72.8	71.8	70.9	68.9	66.0	63.1	59.2	53.4	45.6	37.9
117.5°	67.0	67.0	66.0	65.1	63.1	60.2	57.3	53.4	47.6	40.8	34.0
120°	61.2	61.2	60.2	59.2	57.3	54.4	52.4	47.6	42.7	35.9	30.1
122.5°	56.3	55.3	55.3	53.4	52.4	49.5	46.6	42.7	37.9	32.0	26.2
125°	50.5	50.5	49.5	48.5	47.6	44.7	41.7	37.9	33.0	28.2	23.3
127.5°	45.6	45.6	44.7	43.7	42.7	39.8	36.9	34.0	29.1	24.3	19.4
130°	40.8	40.8	39.8	38.8	37.9	35.0	33.0	29.1	25.2	21.4	16.5
132.5°	36.9	36.9	35.9	35.0	33.0	31.1	29.1	25.2	22.3	18.4	14.6
135°	33.0	32.0	32.0	31.1	29.1	27.2	25.2	22.3	18.4	15.5	11.7
137.5°	29.1	28.2	27.2	26.2	25.2	23.3	21.4	19.4	16.5	12.6	9.7
140°	25.2	24.3	24.3	23.3	21.4	20.4	18.4	15.5	13.6	10.7	7.8
142.5°	21.4	21.4	20.4	19.4	18.4	17.5	15.5	13.6	10.7	8.7	5.8
145°	18.4	17.5	17.5	16.5	15.5	13.6	12.6	10.7	8.7	6.8	4.9
147.5°	14.6	14.6	14.6	13.6	12.6	11.7	10.7	8.7	6.8	4.9	2.9
150°	11.7	11.7	11.7	10.7	9.7	8.7	7.8	6.8	4.9	2.9	1.9
152.5°	9.7	9.7	8.7	8.7	7.8	6.8	5.8	4.9	2.9	1.9	1.9
155°	6.8	6.8	6.8	5.8	5.8	4.9	3.9	2.9	1.9	1.9	1.9
157.5°	4.9	4.9	4.9	3.9	3.9	2.9	2.9	1.9	1.9	1.9	1.9
160°	2.9	2.9	2.9	2.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
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: 4SNLED-LD5-53SL-LN-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1765.1	1765.1	1765.1	1765.1	1765.1	1765.1	1765.1
2.5°	1753.4	1752.5	1760.2	1760.2	1751.5	1765.1	1779.7
5°	1747.6	1746.7	1754.4	1754.4	1746.7	1760.2	1775.8
7.5°	1736.0	1736.9	1744.7	1746.7	1736.9	1749.6	1766.1
10°	1723.3	1722.4	1731.1	1733.1	1725.3	1736.9	1752.5
12.5°	1703.0	1703.0	1711.7	1714.6	1706.8	1720.4	1735.0
15°	1681.6	1681.6	1687.4	1692.3	1685.5	1698.1	1712.7
17.5°	1654.4	1653.4	1659.3	1665.1	1658.3	1671.9	1687.4
20°	1619.5	1619.5	1626.3	1633.1	1628.2	1640.8	1658.3
22.5°	1582.6	1578.7	1590.3	1595.2	1592.3	1604.9	1622.4
25°	1536.0	1535.0	1546.6	1553.4	1549.6	1563.2	1578.7
27.5°	1485.5	1484.5	1496.2	1504.9	1503.0	1515.6	1533.1
30°	1424.3	1429.2	1439.8	1454.4	1449.6	1463.1	1481.6
32.5°	1360.2	1365.1	1377.7	1393.2	1394.2	1404.9	1423.3
35°	1283.5	1296.2	1304.9	1325.3	1329.2	1339.8	1359.3
37.5°	1202.9	1217.5	1236.0	1251.5	1259.3	1268.0	1290.3
40°	1112.7	1134.0	1154.4	1172.8	1182.6	1191.3	1212.7
42.5°	1031.1	1047.6	1067.0	1085.5	1102.9	1110.7	1133.0
45°	938.9	958.3	975.8	998.1	1015.6	1024.3	1046.6
47.5°	848.6	868.0	891.3	906.8	925.3	934.0	955.4
50°	762.2	779.6	799.1	817.5	833.0	840.8	859.2
52.5°	676.7	695.2	713.6	725.3	741.8	747.6	763.1
55°	601.0	613.6	630.1	636.9	653.4	657.3	668.0
57.5°	528.2	536.9	542.7	554.4	566.0	574.8	587.4
60°	462.1	466.0	469.9	476.7	486.4	489.3	494.2
62.5°	402.9	402.0	409.7	411.7	412.6	422.3	417.5
65°	350.5	351.5	344.7	341.8	345.6	348.6	346.6
67.5°	306.8	301.0	295.2	288.4	282.5	285.4	282.5
70°	264.1	259.2	249.5	239.8	235.9	230.1	227.2
72.5°	230.1	218.5	208.7	196.1	189.3	182.5	177.7
75°	203.9	187.4	173.8	160.2	150.5	140.8	138.8
77.5°	176.7	161.2	145.6	131.1	116.5	105.8	101.9
80°	155.3	140.8	122.3	104.9	89.3	75.7	70.9
82.5°	135.9	120.4	101.9	83.5	66.0	51.5	45.6
85°	119.4	102.9	84.5	66.0	48.5	33.0	25.2
87.5°	106.8	88.4	69.9	52.4	34.0	18.4	9.7
90°	95.1	77.7	60.2	41.7	24.3	9.7	0.0
92.5°	84.5	68.0	50.5	34.0	18.4	5.8	1.0
95°	74.8	60.2	42.7	27.2	13.6	3.9	1.0
97.5°	67.0	52.4	36.9	22.3	10.7	2.9	1.0
100°	60.2	45.6	32.0	18.4	8.7	1.9	1.0
102.5°	53.4	40.8	27.2	15.5	6.8	1.0	1.0
105°	47.6	35.9	23.3	13.6	5.8	1.0	1.0
107.5°	42.7	32.0	20.4	11.7	3.9	1.0	1.0
110°	37.9	27.2	17.5	9.7	2.9	1.0	1.0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-53SL-LN-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	34.0	24.3	15.5	7.8	1.9	1.0	1.0
115°	30.1	21.4	13.6	6.8	1.9	1.0	1.0
117.5°	26.2	18.4	11.7	4.9	1.0	1.0	1.0
120°	23.3	16.5	9.7	3.9	1.0	1.0	1.0
122.5°	20.4	13.6	7.8	2.9	1.0	1.0	1.0
125°	17.5	11.7	6.8	1.9	1.0	1.0	1.0
127.5°	14.6	9.7	4.9	1.9	1.0	1.0	1.0
130°	12.6	7.8	3.9	1.0	1.0	1.0	1.0
132.5°	10.7	5.8	2.9	1.0	1.0	1.0	1.0
135°	8.7	4.9	1.9	1.0	1.0	1.0	1.0
137.5°	6.8	3.9	1.9	1.0	1.0	1.0	1.0
140°	4.9	2.9	1.0	1.0	1.0	1.0	1.0
142.5°	3.9	1.9	1.0	1.0	1.0	1.0	1.0
145°	2.9	1.9	1.0	1.0	1.0	1.0	1.0
147.5°	1.9	1.9	1.9	1.9	1.0	1.0	1.0
150°	1.9	1.9	1.0	1.0	1.9	1.0	1.0
152.5°	1.9	1.0	1.0	1.0	1.9	1.0	1.0
155°	1.9	1.9	1.9	1.9	1.9	1.9	1.0
157.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9
160°	1.9	1.9	1.9	1.9	1.9	1.9	1.9
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)