

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-LD5-41SL-LC-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 (P33518)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNLED-LD5-41SL-LC-UNV-L950-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
CLEAR LENSED  
Light Source: -  
Ballast/Driver: -

**Summary**

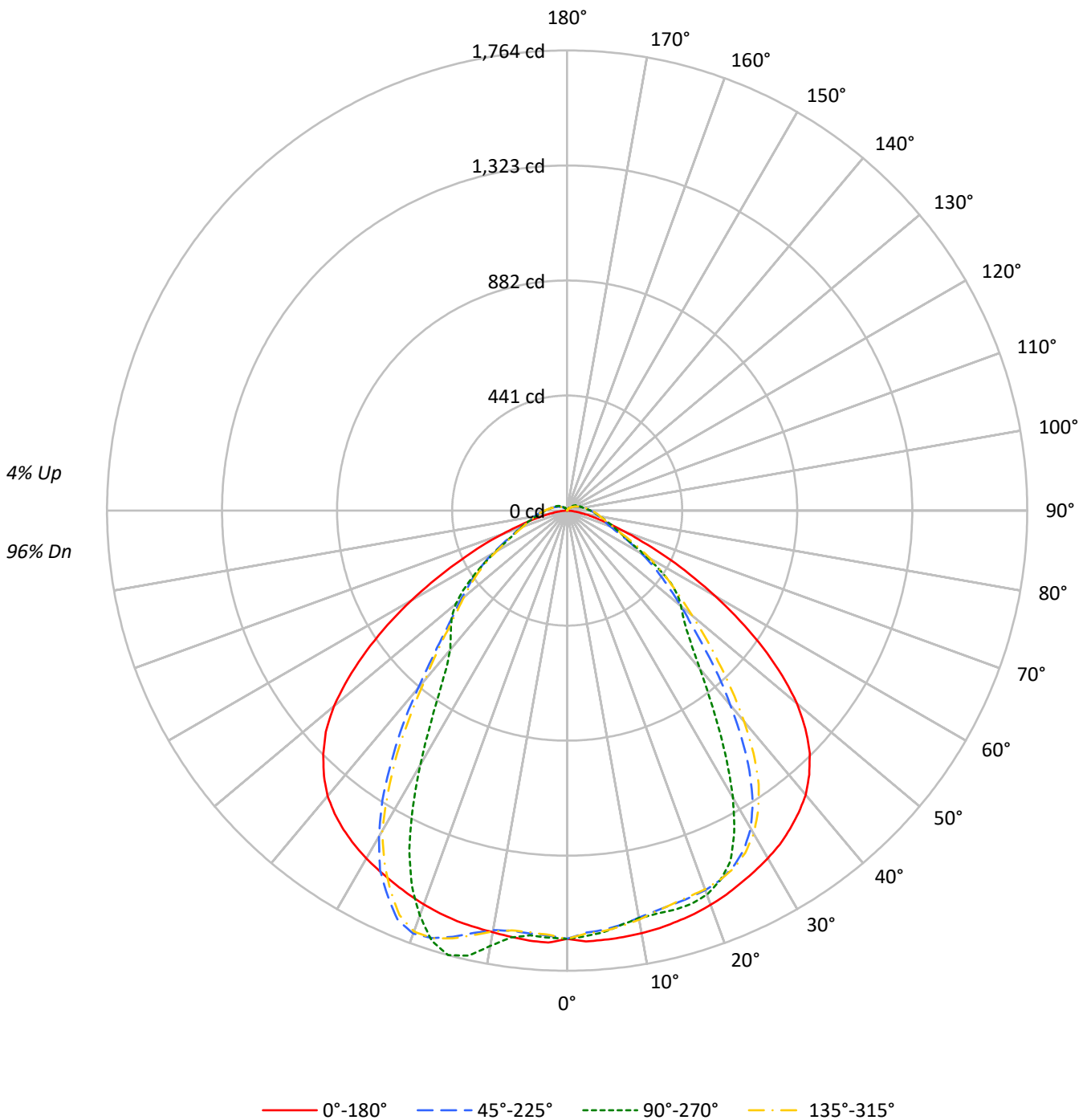
Lumens per Lamp: N/A  
Luminaire Lumens: 3913.0 lumens  
Efficiency: N/A  
Efficacy: 126.2 lumens/watt  
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 31  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96				
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	84	82				
2	100	93	86	81	97	90	85	80	86	82	77	82	79	75	79	76	73	71				
3	92	83	75	69	89	81	74	68	77	71	67	74	69	65	71	67	63	61				
4	85	74	66	60	83	73	65	59	70	63	58	67	61	57	64	60	56	54				
5	79	67	59	52	76	66	58	52	63	56	51	61	55	50	59	53	49	47				
6	73	61	52	46	71	60	52	46	57	51	45	55	49	45	54	48	44	42				
7	68	55	47	42	66	54	47	41	53	46	41	51	45	40	49	44	40	38				
8	64	51	43	37	62	50	42	37	48	42	37	47	41	36	45	40	36	34				
9	60	47	39	34	58	46	39	34	45	38	33	43	37	33	42	37	33	31				
10	56	43	36	31	54	43	36	31	42	35	30	40	34	30	39	34	30	28				

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

	0°	90°	180°	270°
0°	13264	13264	13264	13264
5°	13361	12738	13389	12838
10°	13423	12209	13395	13037
15°	13527	12045	13519	13411
20°	13675	11854	13661	12496
25°	13844	11246	13836	10866
30°	14104	9747	14113	8635
35°	14380	7881	14422	6670
40°	14625	6346	14685	5591
45°	14573	5375	14648	5234
50°	13945	4948	14140	4838
55°	12373	4448	12680	4044
60°	10035	3404	10568	3122
65°	7460	2605	8037	2470
70°	5074	2248	5718	2149
75°	3319	2029	3864	1918
80°	2147	1892	2514	1740
85°	1100	1887	1448	1723



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.9	4.0
10°-20°	463.9	11.9
20°-30°	705.3	18.0
30°-40°	756.6	19.3
40°-50°	656.6	16.8
50°-60°	486.6	12.4
60°-70°	278.8	7.1
70°-80°	154.4	3.9
80°-90°	94.0	2.4
90°-100°	61.1	1.6
100°-110°	40.9	1.0
110°-120°	27.6	0.7
120°-130°	17.0	0.4
130°-140°	8.9	0.2
140°-150°	4.1	0.1
150°-160°	1.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1325.1	33.9
0°-40°	2081.6	53.2
0°-60°	3224.9	82.4
0°-90°	3752.1	95.9
90°-120°	129.7	3.3
90°-150°	159.7	4.1
90°-180°	161.0	4.1
0°-180°	3913.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1641	1641	1641	1641	1641	
5°	1652	1622	1655	1635	1652	157
15°	1630	1585	1630	1764	1630	461
25°	1575	1482	1574	1432	1575	728
35°	1490	1009	1494	854	1490	932
45°	1315	647	1322	630	1315	1007
55°	917	485	940	441	917	813
65°	416	246	448	233	416	420
75°	119	156	138	148	119	136
85°	16	108	21	98	16	21
90°	0	90	2	83	0	1
95°	1	74	0	70	1	1
105°	1	55	1	53	1	1
115°	1	45	1	41	1	1
125°	1	34	1	28	1	1
135°	1	21	1	18	1	1
145°	1	13	2	10	1	1
155°	2	6	2	5	2	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-LD5-41SL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1641.4	1641.4	1641.4	1641.4	1641.4	1641.4	1641.4	1641.4	1641.4	1641.4	1641.4
2.5°	1653.3	1649.0	1647.3	1643.9	1646.5	1656.7	1649.9	1638.9	1639.7	1620.2	1630.4
5°	1651.6	1646.5	1643.9	1640.6	1642.3	1651.6	1644.8	1633.8	1632.9	1613.4	1622.8
7.5°	1649.0	1643.9	1639.7	1637.2	1638.0	1645.6	1637.2	1624.4	1621.9	1600.7	1609.2
10°	1644.8	1641.4	1635.5	1631.2	1630.4	1638.9	1625.3	1612.6	1606.6	1584.6	1593.1
12.5°	1638.9	1633.8	1627.8	1620.2	1619.4	1624.4	1613.4	1595.6	1589.7	1571.9	1581.2
15°	1630.4	1624.4	1617.7	1609.2	1604.9	1608.3	1594.8	1578.7	1577.8	1562.6	1575.3
17.5°	1621.1	1612.6	1604.9	1593.1	1587.1	1589.7	1578.7	1564.3	1565.9	1556.6	1571.0
20°	1608.3	1599.0	1587.1	1575.3	1566.8	1571.0	1563.4	1552.4	1554.9	1548.1	1560.9
22.5°	1593.9	1581.2	1566.8	1553.2	1546.4	1552.4	1546.4	1537.1	1538.0	1533.7	1541.4
25°	1575.3	1560.9	1543.9	1526.9	1523.6	1527.8	1524.4	1516.8	1513.4	1506.6	1510.0
27.5°	1558.3	1542.2	1521.0	1503.2	1497.3	1505.8	1498.1	1485.4	1476.1	1466.8	1460.0
30°	1538.8	1519.3	1495.6	1475.2	1470.1	1473.5	1462.5	1443.0	1418.4	1406.6	1387.9
32.5°	1517.6	1492.2	1462.5	1439.6	1436.2	1433.7	1413.3	1385.4	1347.2	1323.5	1294.6
35°	1489.6	1461.7	1426.1	1398.1	1393.0	1378.6	1345.5	1308.2	1259.0	1218.3	1169.2
37.5°	1458.3	1425.2	1387.9	1350.6	1336.2	1307.4	1260.7	1221.7	1147.1	1097.9	1038.6
40°	1422.7	1382.8	1337.0	1292.1	1268.4	1221.7	1168.3	1110.7	1038.6	972.5	922.4
42.5°	1373.5	1331.1	1276.8	1226.8	1186.1	1124.2	1061.5	980.1	914.0	858.0	807.1
45°	1315.0	1264.1	1201.4	1141.2	1089.5	1015.7	941.9	860.6	805.4	740.2	705.4
47.5°	1239.5	1184.4	1117.4	1050.5	982.6	901.2	824.1	746.1	691.0	644.4	618.9
50°	1150.5	1099.6	1025.9	946.2	871.6	786.8	709.6	651.1	597.7	568.9	549.4
52.5°	1040.3	992.8	917.4	830.9	758.8	675.7	605.4	557.9	519.7	498.5	491.7
55°	917.4	875.8	801.2	720.7	646.9	570.6	517.2	475.6	451.0	438.3	439.2
57.5°	785.9	753.7	683.4	611.3	541.8	484.1	435.8	402.7	384.1	383.2	385.8
60°	654.5	630.8	569.7	507.9	446.8	400.2	364.6	341.7	329.8	330.7	329.8
62.5°	529.0	507.0	462.9	412.0	363.7	332.4	300.1	290.8	280.6	279.8	279.8
65°	416.3	399.3	363.7	327.3	290.8	270.5	254.3	243.3	235.7	234.0	234.8
67.5°	312.9	306.1	281.5	256.9	234.0	221.3	207.7	205.2	199.2	199.2	200.9
70°	233.2	228.1	214.5	200.1	190.8	182.3	175.5	175.5	174.7	173.8	178.0
72.5°	168.7	169.6	165.3	154.3	153.5	151.8	150.1	152.6	153.5	156.0	161.1
75°	118.7	121.2	121.2	119.5	122.9	127.2	129.7	134.0	139.0	142.4	148.4
77.5°	83.9	83.9	88.2	93.3	100.0	107.7	114.5	120.4	127.2	131.4	136.5
80°	54.3	56.8	63.6	72.9	82.2	92.4	101.7	109.4	116.2	122.9	126.3
82.5°	32.2	36.5	44.9	56.8	68.7	81.4	90.7	100.0	107.7	114.5	117.0
85°	16.1	22.0	32.2	44.9	57.7	71.2	83.1	91.6	100.0	106.0	109.4
87.5°	5.1	11.9	22.9	34.8	48.3	61.9	74.6	83.9	91.6	96.7	100.0
90°	0.0	5.9	16.1	28.8	41.5	55.1	67.0	77.2	84.8	89.0	91.6
92.5°	0.0	3.4	12.7	23.7	35.6	49.2	61.0	70.4	77.2	81.4	83.1
95°	0.8	2.5	9.3	19.5	31.4	44.1	55.1	63.6	70.4	74.6	75.5
97.5°	0.8	1.7	7.6	16.1	27.1	39.0	50.0	58.5	63.6	67.8	68.7
100°	0.8	1.7	5.9	14.4	23.7	34.8	44.9	52.6	58.5	61.9	62.7
102.5°	0.8	0.8	5.1	11.9	21.2	30.5	39.8	47.5	52.6	56.0	57.7
105°	0.8	0.8	4.2	10.2	18.7	27.1	35.6	43.2	47.5	50.9	52.6
107.5°	0.8	0.8	3.4	8.5	16.1	23.7	32.2	38.2	43.2	46.6	48.3
110°	0.8	0.8	2.5	7.6	13.6	21.2	28.0	33.9	39.0	42.4	44.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.8	0.8	2.5	6.8	11.9	18.7	24.6	30.5	34.8	38.2	40.7
115°	0.8	0.8	2.5	5.9	11.0	16.1	22.0	27.1	31.4	34.8	37.3
117.5°	0.8	0.8	2.5	5.1	9.3	14.4	19.5	24.6	28.0	31.4	33.9
120°	0.8	0.8	1.7	4.2	8.5	12.7	17.0	21.2	25.4	28.8	31.4
122.5°	0.8	0.8	1.7	4.2	6.8	11.0	15.3	18.7	22.9	25.4	28.0
125°	0.8	0.8	1.7	3.4	5.9	10.2	13.6	17.0	19.5	22.9	25.4
127.5°	0.8	0.8	1.7	3.4	5.1	8.5	11.9	15.3	17.8	20.3	22.0
130°	0.8	0.8	1.7	2.5	4.2	6.8	10.2	12.7	16.1	17.8	19.5
132.5°	0.8	0.8	0.8	2.5	3.4	5.1	7.6	11.0	13.6	16.1	17.0
135°	0.8	0.8	0.8	1.7	3.4	4.2	5.9	8.5	11.0	13.6	15.3
137.5°	0.8	0.8	0.8	1.7	2.5	4.2	5.1	6.8	9.3	11.0	13.6
140°	0.8	0.8	0.8	1.7	2.5	3.4	4.2	5.9	7.6	9.3	11.0
142.5°	0.8	0.8	0.8	1.7	1.7	2.5	3.4	5.1	5.9	7.6	9.3
145°	0.8	0.8	0.8	1.7	1.7	2.5	3.4	4.2	5.1	5.9	7.6
147.5°	0.8	0.8	0.8	1.7	1.7	1.7	2.5	3.4	4.2	5.1	5.9
150°	1.7	1.7	1.7	1.7	1.7	1.7	2.5	2.5	3.4	4.2	5.1
152.5°	1.7	1.7	1.7	1.7	1.7	1.7	2.5	2.5	2.5	3.4	4.2
155°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.5	2.5	3.4	3.4
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	1641.4	1641.4	1641.4	1641.4	1641.4	1641.4	1641.4	1641.4	1641.4	1641.4	1641.4
2.5°	1627.0	1628.7	1638.9	1638.0	1636.3	1634.6	1634.6	1632.9	1634.6	1638.9	1637.2
5°	1618.5	1621.1	1628.7	1627.8	1626.1	1625.3	1624.4	1621.9	1623.6	1629.5	1627.8
7.5°	1603.3	1605.8	1612.6	1609.2	1606.6	1608.3	1604.1	1601.6	1604.9	1610.9	1610.0
10°	1587.1	1588.8	1597.3	1595.6	1591.4	1592.2	1588.0	1586.3	1590.5	1593.9	1594.8
12.5°	1576.1	1582.1	1589.7	1588.8	1588.0	1588.8	1584.6	1582.9	1585.4	1588.8	1588.0
15°	1573.6	1581.2	1589.7	1589.7	1590.5	1591.4	1587.1	1584.6	1587.1	1589.7	1588.8
17.5°	1571.0	1580.4	1588.0	1587.1	1588.0	1589.7	1582.9	1581.2	1584.6	1588.0	1586.3
20°	1562.6	1571.0	1576.1	1574.4	1574.4	1575.3	1566.8	1566.8	1571.9	1574.4	1575.3
22.5°	1538.8	1549.0	1549.0	1544.8	1544.8	1541.4	1538.8	1533.7	1539.7	1543.9	1547.3
25°	1503.2	1507.4	1502.4	1493.0	1487.9	1483.7	1471.8	1482.0	1482.0	1494.7	1499.0
27.5°	1453.2	1443.9	1429.4	1409.9	1405.7	1392.1	1384.5	1387.1	1391.3	1409.1	1422.7
30°	1370.9	1343.0	1318.4	1309.9	1291.2	1277.7	1264.1	1270.9	1278.5	1288.7	1316.7
32.5°	1262.4	1235.3	1195.4	1181.0	1161.5	1144.6	1128.5	1138.6	1152.2	1159.0	1189.5
35°	1137.8	1105.6	1069.1	1044.5	1024.2	1014.9	994.5	1008.9	1023.3	1028.4	1054.7
37.5°	1005.5	972.5	940.2	919.1	899.6	893.6	880.1	890.2	901.2	908.9	930.9
40°	880.1	849.5	824.9	810.5	797.0	791.9	786.8	791.0	799.5	805.4	822.4
42.5°	772.4	747.8	730.8	722.4	713.0	706.2	707.1	708.8	713.0	725.7	733.4
45°	678.3	663.9	652.8	651.1	645.2	644.4	643.5	646.9	649.4	657.1	663.0
47.5°	602.8	596.9	594.3	597.7	600.3	596.9	598.6	602.8	607.9	607.9	607.0
50°	543.5	545.2	548.5	556.2	561.3	563.0	564.7	569.7	570.6	572.3	569.7
52.5°	495.1	496.8	506.2	518.0	524.0	526.5	529.9	535.0	535.0	536.7	533.3
55°	446.0	448.5	457.8	469.7	474.8	478.2	481.6	485.0	487.5	490.9	488.4
57.5°	391.7	399.3	405.3	408.7	412.0	414.6	417.1	418.0	423.1	423.9	428.2
60°	334.0	335.7	341.7	340.8	338.3	345.1	341.7	347.6	353.5	361.2	362.0
62.5°	278.9	279.8	284.0	282.3	285.7	284.9	287.4	287.4	291.7	295.0	299.3
65°	235.7	236.5	239.9	239.9	239.1	241.6	244.2	245.9	245.9	248.4	251.8
67.5°	203.5	206.0	209.4	211.1	212.8	212.8	215.3	216.2	217.9	218.7	220.4
70°	181.4	184.8	188.2	189.9	190.8	192.5	193.3	193.3	195.0	195.8	197.5
72.5°	165.3	168.7	171.3	171.3	173.0	173.8	173.8	174.7	175.5	177.2	178.9
75°	151.8	154.3	156.0	155.2	155.2	155.2	156.0	156.0	157.7	159.4	161.1
77.5°	139.0	141.6	141.6	139.9	139.9	139.9	139.9	140.7	141.6	143.3	145.0
80°	129.7	129.7	128.9	128.9	127.2	126.3	126.3	127.2	127.2	128.9	131.4
82.5°	119.5	119.5	118.7	117.8	117.0	116.2	116.2	117.0	117.8	118.7	120.4
85°	110.2	110.2	108.5	108.5	107.7	107.7	107.7	107.7	108.5	109.4	111.1
87.5°	100.9	100.0	99.2	98.3	98.3	98.3	98.3	98.3	99.2	100.9	101.7
90°	91.6	90.7	89.9	89.9	89.0	89.0	89.9	89.9	90.7	91.6	92.4
92.5°	83.1	82.2	81.4	81.4	80.5	80.5	81.4	80.5	82.2	82.2	83.1
95°	75.5	74.6	73.8	73.8	73.8	73.8	73.8	73.8	74.6	74.6	75.5
97.5°	68.7	67.8	67.0	67.0	67.8	67.0	67.8	67.8	67.8	68.7	69.5
100°	62.7	61.9	61.9	62.7	61.9	61.9	62.7	62.7	62.7	62.7	63.6
102.5°	57.7	57.7	57.7	57.7	57.7	57.7	58.5	58.5	58.5	58.5	59.3
105°	52.6	53.4	53.4	53.4	54.3	54.3	54.3	55.1	55.1	55.1	55.1
107.5°	49.2	50.0	50.0	50.9	50.9	51.7	51.7	51.7	51.7	52.6	52.6
110°	45.8	46.6	47.5	48.3	48.3	49.2	49.2	49.2	49.2	49.2	49.2





TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-41SL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	42.4	43.2	44.1	45.8	46.6	46.6	46.6	46.6	47.5	47.5	46.6
115°	39.0	40.7	41.5	43.2	44.1	44.1	44.9	44.9	44.9	44.9	44.1
117.5°	35.6	38.2	39.0	40.7	41.5	41.5	42.4	42.4	42.4	42.4	41.5
120°	33.1	34.8	36.5	37.3	38.2	39.0	39.0	39.8	39.8	39.8	39.0
122.5°	30.5	32.2	33.9	34.8	35.6	36.5	36.5	36.5	36.5	36.5	36.5
125°	27.1	28.8	30.5	31.4	32.2	33.1	33.1	33.9	33.9	33.9	33.1
127.5°	24.6	26.3	27.1	28.8	29.7	29.7	30.5	30.5	30.5	30.5	29.7
130°	21.2	22.9	24.6	25.4	26.3	26.3	27.1	27.1	27.1	27.1	27.1
132.5°	18.7	20.3	21.2	22.9	22.9	23.7	23.7	24.6	24.6	24.6	23.7
135°	17.0	17.8	18.7	20.3	20.3	21.2	21.2	21.2	21.2	21.2	21.2
137.5°	15.3	16.1	17.0	17.8	17.8	18.7	18.7	18.7	18.7	19.5	18.7
140°	12.7	14.4	15.3	15.3	16.1	16.1	16.1	17.0	17.0	17.0	16.1
142.5°	11.0	11.9	12.7	13.6	14.4	14.4	14.4	14.4	15.3	14.4	14.4
145°	8.5	10.2	11.0	11.9	12.7	12.7	12.7	12.7	12.7	12.7	12.7
147.5°	6.8	7.6	9.3	10.2	10.2	11.0	11.0	11.0	11.0	11.0	11.0
150°	5.9	5.9	7.6	8.5	9.3	9.3	9.3	9.3	9.3	9.3	9.3
152.5°	4.2	5.1	5.9	6.8	7.6	7.6	7.6	7.6	7.6	7.6	7.6
155°	4.2	4.2	5.1	5.1	5.9	5.9	5.9	5.9	6.8	5.9	5.9
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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-LD5-41SL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1641.4	1641.4	1641.4	1641.4	1641.4	1641.4	1641.4	1641.4	1641.4	1641.4	1641.4
2.5°	1634.6	1633.8	1637.2	1633.8	1616.8	1623.6	1621.1	1630.4	1631.2	1633.8	1642.3
5°	1626.1	1626.1	1630.4	1627.0	1610.9	1617.7	1616.8	1626.1	1627.8	1629.5	1638.9
7.5°	1609.2	1610.0	1616.0	1613.4	1596.5	1606.6	1605.8	1616.8	1620.2	1623.6	1632.1
10°	1593.1	1592.2	1599.0	1596.5	1580.4	1592.2	1591.4	1602.4	1607.5	1613.4	1623.6
12.5°	1584.6	1582.1	1584.6	1582.1	1564.3	1573.6	1574.4	1587.1	1593.1	1600.7	1612.6
15°	1584.6	1580.4	1580.4	1575.3	1554.9	1560.9	1561.7	1570.2	1577.8	1585.4	1599.9
17.5°	1582.9	1578.7	1577.8	1573.6	1551.5	1551.5	1550.7	1556.6	1560.9	1568.5	1583.8
20°	1573.6	1571.9	1571.0	1568.5	1548.1	1544.8	1543.1	1543.1	1545.6	1548.1	1563.4
22.5°	1549.0	1550.7	1552.4	1554.1	1538.0	1532.0	1532.9	1531.2	1528.6	1528.6	1541.4
25°	1503.2	1511.7	1518.5	1526.1	1516.8	1512.5	1517.6	1515.1	1510.8	1507.4	1518.5
27.5°	1430.3	1448.1	1462.5	1481.2	1482.0	1478.6	1492.2	1490.5	1489.6	1484.6	1493.0
30°	1329.4	1357.4	1376.9	1404.0	1426.9	1430.3	1453.2	1456.6	1460.0	1457.4	1465.9
32.5°	1207.3	1245.5	1278.5	1320.9	1343.0	1362.5	1394.7	1408.3	1421.8	1426.1	1435.4
35°	1074.2	1117.4	1156.4	1203.1	1237.8	1280.2	1319.2	1339.6	1370.1	1382.0	1395.5
37.5°	947.9	988.6	1026.7	1073.4	1129.3	1173.4	1221.7	1267.5	1309.1	1326.0	1346.4
40°	836.0	869.0	905.5	946.2	997.1	1054.7	1107.3	1170.9	1220.0	1253.9	1283.6
42.5°	751.2	767.3	798.7	835.1	875.8	934.3	987.7	1058.9	1118.3	1166.6	1215.8
45°	675.7	683.4	706.2	725.7	767.3	819.0	875.8	945.3	1007.2	1069.1	1128.5
47.5°	611.3	620.6	631.6	643.5	673.2	716.4	765.6	828.3	890.2	962.3	1030.1
50°	568.0	570.6	572.3	577.4	595.2	624.9	664.7	718.1	777.5	854.6	926.7
52.5°	529.9	529.9	524.8	522.3	529.0	547.7	570.6	608.7	669.8	741.0	817.3
55°	489.2	481.6	479.9	471.4	473.1	481.6	492.6	522.3	572.3	633.3	707.1
57.5°	432.4	429.0	429.0	425.6	418.8	423.1	425.6	446.8	482.4	535.0	599.4
60°	367.1	365.4	369.7	370.5	364.6	367.1	366.3	379.0	404.4	446.8	500.2
62.5°	301.8	309.5	310.3	313.7	310.3	309.5	313.7	324.7	337.4	369.7	411.2
65°	253.5	257.7	258.6	262.8	261.1	261.1	264.5	273.0	280.6	302.7	334.9
67.5°	222.1	220.4	221.3	223.8	221.3	220.4	223.0	228.1	234.0	247.6	270.5
70°	197.5	195.8	195.8	195.8	192.5	189.9	190.8	192.5	195.0	202.6	217.0
72.5°	178.9	178.9	176.3	173.8	171.3	169.6	167.9	166.2	165.3	167.9	175.5
75°	161.9	162.8	161.9	159.4	156.0	152.6	149.2	145.8	141.6	139.9	140.7
77.5°	146.7	147.5	148.4	147.5	144.1	139.9	134.8	129.7	123.8	117.8	114.5
80°	133.1	134.8	135.7	134.8	132.3	128.9	122.9	117.0	108.5	100.9	92.4
82.5°	121.2	123.8	124.6	124.6	122.9	119.5	112.8	106.0	96.7	86.5	75.5
85°	111.9	113.6	115.3	115.3	114.5	111.1	104.3	96.7	87.3	75.5	63.6
87.5°	102.6	103.4	105.1	106.8	105.1	101.7	95.8	87.3	78.0	66.1	52.6
90°	93.3	94.1	95.8	97.5	96.7	93.3	88.2	80.5	70.4	57.7	44.1
92.5°	83.9	85.6	86.5	87.3	88.2	85.6	81.4	73.8	63.6	50.9	38.2
95°	77.2	77.2	78.8	79.7	80.5	78.0	74.6	67.0	57.7	45.8	33.1
97.5°	70.4	70.4	72.1	72.1	72.9	71.2	67.8	61.0	51.7	40.7	28.0
100°	63.6	64.4	65.3	66.1	66.1	65.3	61.9	55.1	46.6	36.5	24.6
102.5°	59.3	59.3	60.2	60.2	61.0	59.3	56.0	50.0	41.5	32.2	21.2
105°	55.1	55.1	56.0	56.0	55.1	53.4	50.0	44.9	37.3	28.0	18.7
107.5°	51.7	51.7	51.7	51.7	50.9	49.2	45.8	39.8	33.1	25.4	17.0
110°	49.2	48.3	48.3	47.5	46.6	44.1	40.7	35.6	29.7	22.0	14.4



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-41SL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	46.6	45.8	44.9	44.1	42.4	39.8	36.5	32.2	26.3	19.5	12.7
115°	44.1	43.2	42.4	40.7	39.0	36.5	33.1	28.8	22.9	17.0	11.0
117.5°	41.5	40.7	39.0	37.3	35.6	33.1	29.7	25.4	20.3	15.3	10.2
120°	38.2	37.3	36.5	34.8	33.1	29.7	26.3	22.9	17.8	13.6	8.5
122.5°	35.6	34.8	33.1	32.2	29.7	27.1	23.7	20.3	16.1	11.9	7.6
125°	32.2	31.4	30.5	28.8	27.1	23.7	21.2	17.8	14.4	10.2	5.9
127.5°	29.7	28.8	27.1	25.4	23.7	21.2	18.7	16.1	12.7	8.5	5.9
130°	26.3	25.4	24.6	22.9	21.2	18.7	17.0	13.6	11.0	7.6	5.1
132.5°	22.9	22.9	22.0	20.3	18.7	17.0	14.4	11.9	9.3	6.8	4.2
135°	21.2	20.3	19.5	17.8	17.0	14.4	12.7	10.2	7.6	5.9	3.4
137.5°	18.7	17.8	17.0	16.1	14.4	12.7	11.0	8.5	6.8	5.1	3.4
140°	16.1	15.3	15.3	13.6	12.7	11.0	9.3	7.6	5.9	4.2	2.5
142.5°	14.4	13.6	12.7	11.9	11.0	9.3	7.6	5.9	5.1	3.4	2.5
145°	12.7	11.9	11.0	10.2	9.3	7.6	6.8	5.1	4.2	3.4	2.5
147.5°	10.2	10.2	9.3	8.5	7.6	6.8	5.9	5.1	3.4	2.5	1.7
150°	8.5	8.5	7.6	6.8	6.8	5.9	5.1	4.2	3.4	2.5	1.7
152.5°	7.6	6.8	6.8	5.9	5.9	5.1	4.2	3.4	2.5	2.5	1.7
155°	5.9	5.9	5.9	5.1	5.1	4.2	3.4	3.4	2.5	1.7	1.7
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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-LD5-41SL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1641.4	1641.4	1641.4	1641.4	1641.4	1641.4	1641.4	1641.4	1641.4	1641.4	1641.4
2.5°	1643.9	1633.8	1642.3	1657.5	1655.8	1654.1	1652.4	1655.8	1666.8	1660.9	1651.6
5°	1641.4	1631.2	1640.6	1655.0	1654.1	1651.6	1649.9	1653.3	1664.3	1658.4	1648.2
7.5°	1636.3	1627.0	1633.8	1648.2	1648.2	1646.5	1644.8	1648.2	1658.4	1653.3	1643.1
10°	1627.8	1621.1	1627.8	1641.4	1642.3	1638.9	1637.2	1641.4	1651.6	1649.0	1640.6
12.5°	1621.1	1614.3	1621.9	1635.5	1636.3	1632.9	1630.4	1635.5	1649.0	1650.7	1648.2
15°	1611.7	1605.8	1615.1	1629.5	1629.5	1627.0	1627.0	1633.8	1652.4	1660.1	1664.3
17.5°	1598.2	1593.9	1604.9	1619.4	1620.2	1618.5	1619.4	1632.9	1657.5	1676.2	1688.0
20°	1581.2	1579.5	1591.4	1606.6	1609.2	1610.0	1614.3	1634.6	1668.5	1694.0	1705.8
22.5°	1560.9	1561.7	1575.3	1591.4	1594.8	1597.3	1605.8	1634.6	1677.0	1704.1	1709.2
25°	1538.0	1540.5	1554.9	1574.4	1578.7	1583.8	1598.2	1635.5	1679.6	1697.4	1688.9
27.5°	1513.4	1518.5	1537.1	1557.5	1562.6	1571.0	1589.7	1630.4	1667.7	1668.5	1637.2
30°	1487.9	1493.9	1515.9	1539.7	1548.1	1556.6	1579.5	1618.5	1638.9	1611.7	1556.6
32.5°	1459.1	1467.6	1489.6	1518.5	1528.6	1539.7	1562.6	1595.6	1588.0	1529.5	1450.6
35°	1422.7	1434.5	1460.0	1493.9	1503.2	1517.6	1533.7	1541.4	1507.4	1424.4	1335.3
37.5°	1377.7	1395.5	1425.2	1464.2	1474.4	1483.7	1487.9	1466.8	1398.9	1309.1	1216.6
40°	1326.0	1353.1	1385.4	1428.6	1438.8	1438.8	1423.5	1378.6	1292.9	1175.1	1072.5
42.5°	1263.3	1296.3	1337.0	1380.3	1390.4	1378.6	1342.1	1263.3	1165.8	1034.4	925.8
45°	1187.0	1231.1	1276.8	1321.8	1326.9	1300.6	1235.3	1135.2	1014.9	892.8	789.3
47.5°	1096.2	1153.9	1203.9	1254.8	1248.0	1203.9	1116.6	1003.0	875.8	760.5	677.4
50°	994.5	1062.3	1118.3	1166.6	1152.2	1091.2	988.6	869.9	743.5	645.2	576.5
52.5°	886.0	964.0	1019.9	1058.9	1039.4	966.5	853.8	740.2	636.7	546.9	501.1
55°	773.2	852.1	909.7	940.2	914.8	836.0	724.9	621.5	524.0	465.5	438.3
57.5°	663.9	737.6	791.9	816.5	784.2	705.4	602.8	515.5	445.1	395.9	382.4
60°	558.7	618.9	670.6	689.3	654.5	581.6	493.4	423.9	372.2	338.3	331.5
62.5°	461.2	510.4	551.1	565.5	531.6	474.8	398.5	346.8	310.3	293.4	284.9
65°	380.7	409.5	451.0	448.5	428.2	375.6	319.6	283.2	259.4	248.4	243.3
67.5°	299.3	325.6	351.9	355.2	329.8	293.4	256.9	230.6	217.9	212.0	209.4
70°	231.5	251.0	267.1	262.8	249.3	226.4	203.5	189.1	184.0	181.4	181.4
72.5°	179.7	189.9	197.5	192.5	184.0	172.1	161.1	155.2	156.0	157.7	159.4
75°	139.0	141.6	143.3	138.2	136.5	128.9	128.0	128.9	134.0	139.0	141.6
77.5°	106.8	103.4	100.9	95.8	96.7	95.8	100.0	106.8	114.5	122.1	128.9
80°	82.2	74.6	68.7	63.6	66.1	70.4	78.8	89.0	99.2	107.7	116.2
82.5°	63.6	52.6	44.1	39.0	44.1	50.9	61.9	74.6	86.5	95.8	105.1
85°	49.2	36.5	26.3	21.2	26.3	36.5	48.3	62.7	75.5	85.6	95.0
87.5°	38.2	26.3	14.4	8.5	14.4	25.4	39.0	52.6	65.3	77.2	86.5
90°	30.5	17.8	6.8	1.7	7.6	17.8	30.5	44.1	56.8	69.5	78.8
92.5°	24.6	12.7	3.4	0.0	4.2	13.6	25.4	38.2	50.9	62.7	72.1
95°	20.3	10.2	2.5	0.0	3.4	10.2	20.3	33.1	44.9	56.8	64.4
97.5°	17.0	7.6	1.7	0.0	1.7	8.5	17.0	28.0	39.8	50.9	58.5
100°	14.4	6.8	1.7	0.0	1.7	6.8	14.4	24.6	34.8	44.9	52.6
102.5°	11.9	5.1	0.8	0.8	0.8	5.1	12.7	21.2	30.5	39.8	47.5
105°	11.0	4.2	0.8	0.8	0.8	4.2	11.0	18.7	27.1	35.6	42.4
107.5°	9.3	3.4	0.8	0.8	0.8	3.4	9.3	16.1	24.6	32.2	38.2
110°	7.6	3.4	0.8	0.8	0.8	3.4	7.6	14.4	21.2	28.0	33.9



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-41SL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	6.8	2.5	0.8	0.8	0.8	2.5	6.8	12.7	18.7	25.4	30.5
115°	5.9	2.5	0.8	0.8	0.8	2.5	5.9	11.0	16.1	22.0	27.1
117.5°	5.1	2.5	0.8	0.8	0.8	1.7	5.1	9.3	14.4	19.5	24.6
120°	4.2	1.7	0.8	0.8	0.8	1.7	4.2	8.5	12.7	17.0	21.2
122.5°	4.2	1.7	0.8	0.8	0.8	1.7	3.4	6.8	11.0	14.4	18.7
125°	3.4	1.7	0.8	0.8	0.8	0.8	3.4	5.9	9.3	12.7	16.1
127.5°	3.4	1.7	0.8	0.8	0.8	0.8	2.5	5.1	7.6	11.0	14.4
130°	2.5	1.7	0.8	0.8	0.8	0.8	1.7	4.2	6.8	9.3	11.9
132.5°	2.5	1.7	0.8	0.8	0.8	0.8	1.7	3.4	5.1	7.6	10.2
135°	2.5	0.8	0.8	0.8	0.8	0.8	0.8	2.5	4.2	5.9	7.6
137.5°	1.7	0.8	0.8	0.8	0.8	0.8	0.8	1.7	3.4	4.2	6.8
140°	1.7	0.8	0.8	0.8	0.8	0.8	0.8	1.7	2.5	3.4	5.1
142.5°	1.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.7	2.5	4.2
145°	1.7	0.8	0.8	1.7	1.7	0.8	0.8	1.7	1.7	2.5	3.4
147.5°	1.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.7	1.7	2.5
150°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.5
152.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
155°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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-LD5-41SL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1641.4	1641.4	1641.4	1641.4	1641.4	1641.4	1641.4	1641.4	1641.4	1641.4	1641.4
2.5°	1649.9	1630.4	1640.6	1637.2	1640.6	1649.0	1648.2	1645.6	1647.3	1643.1	1638.9
5°	1646.5	1627.0	1637.2	1632.9	1637.2	1645.6	1643.9	1641.4	1643.9	1638.9	1634.6
7.5°	1642.3	1624.4	1636.3	1635.5	1643.1	1654.1	1655.0	1655.0	1660.9	1653.3	1649.9
10°	1642.3	1632.9	1649.0	1655.0	1674.5	1688.9	1690.6	1694.0	1704.1	1702.4	1694.0
12.5°	1660.1	1658.4	1682.1	1696.5	1714.3	1734.7	1745.7	1749.1	1755.9	1750.8	1747.4
15°	1682.9	1691.4	1717.7	1733.8	1753.3	1768.6	1771.1	1772.8	1777.9	1770.3	1764.3
17.5°	1713.5	1718.6	1739.8	1746.5	1759.3	1761.8	1758.4	1749.9	1749.9	1733.0	1727.9
20°	1727.9	1725.3	1733.8	1722.8	1717.7	1702.4	1688.0	1671.9	1671.1	1653.3	1651.6
22.5°	1715.2	1698.2	1680.4	1653.3	1641.4	1619.4	1599.9	1590.5	1584.6	1561.7	1555.8
25°	1670.2	1628.7	1602.4	1570.2	1541.4	1515.9	1497.3	1477.8	1459.1	1440.5	1432.0
27.5°	1592.2	1553.2	1510.8	1465.9	1426.1	1387.1	1355.7	1336.2	1318.4	1293.8	1281.1
30°	1496.4	1442.2	1395.5	1352.3	1287.0	1239.5	1213.2	1174.2	1160.7	1149.7	1125.9
32.5°	1383.7	1318.4	1254.8	1196.3	1129.3	1085.2	1050.5	1021.6	1013.2	984.3	977.6
35°	1259.0	1173.4	1101.3	1043.7	995.4	941.9	913.1	893.6	876.7	857.2	853.8
37.5°	1112.4	1035.2	953.8	902.9	864.8	819.0	797.0	783.4	775.8	761.4	758.8
40°	964.8	887.7	831.7	780.9	757.1	732.5	716.4	710.5	707.1	702.0	696.9
42.5°	830.9	763.0	723.2	689.3	679.1	667.2	663.0	666.4	663.0	661.3	660.5
45°	717.3	665.5	637.6	627.4	624.9	621.5	624.9	630.8	631.6	629.9	629.9
47.5°	613.8	589.2	577.4	579.1	583.3	585.9	591.8	599.4	601.1	596.9	598.6
50°	546.0	531.6	529.0	535.8	545.2	548.5	555.3	561.3	560.4	558.7	557.0
52.5°	482.4	478.2	485.0	491.7	501.9	503.6	506.2	508.7	507.9	504.5	502.8
55°	429.0	432.4	438.3	440.9	448.5	447.7	448.5	448.5	445.1	443.4	440.9
57.5°	380.7	381.5	384.9	385.8	390.0	388.3	387.5	385.8	380.7	379.8	377.3
60°	331.5	329.8	337.4	331.5	334.9	331.5	330.7	326.4	321.3	320.5	318.8
62.5°	284.9	281.5	286.6	284.0	285.7	282.3	280.6	275.5	271.3	270.5	269.6
65°	243.3	241.6	246.7	245.9	247.6	243.3	241.6	238.2	234.8	234.0	233.2
67.5°	208.6	212.8	215.3	215.3	217.0	216.2	212.0	211.1	210.3	206.9	206.9
70°	183.1	185.7	190.8	191.6	190.8	192.5	189.1	188.2	187.4	185.7	184.8
72.5°	162.8	166.2	171.3	172.1	171.3	171.3	169.6	168.7	168.7	166.2	166.2
75°	146.7	150.9	155.2	155.2	155.2	153.5	151.8	151.8	150.1	149.2	147.5
77.5°	133.1	138.2	141.6	140.7	139.9	138.2	138.2	135.7	133.1	133.1	131.4
80°	122.9	126.3	128.9	128.0	127.2	124.6	123.8	121.2	119.5	117.0	117.0
82.5°	111.9	116.2	117.8	117.0	115.3	112.8	111.9	110.2	108.5	107.7	106.0
85°	102.6	106.8	107.7	106.0	104.3	102.6	101.7	100.9	100.0	98.3	98.3
87.5°	93.3	97.5	97.5	96.7	95.0	94.1	93.3	92.4	91.6	90.7	89.9
90°	85.6	89.0	89.0	88.2	87.3	86.5	85.6	84.8	83.9	83.1	83.1
92.5°	78.0	81.4	81.4	80.5	79.7	78.8	78.8	78.0	77.2	76.3	75.5
95°	71.2	74.6	74.6	74.6	73.8	72.9	72.9	72.1	71.2	71.2	70.4
97.5°	64.4	67.8	67.8	67.8	67.0	66.1	66.1	65.3	65.3	65.3	64.4
100°	58.5	61.0	61.9	61.9	61.0	61.0	61.0	60.2	60.2	60.2	59.3
102.5°	52.6	55.1	56.8	56.8	56.8	56.0	56.0	56.0	56.0	56.0	55.1
105°	47.5	50.0	51.7	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6
107.5°	43.2	45.8	47.5	48.3	49.2	49.2	50.0	50.0	50.0	50.0	50.0
110°	39.0	41.5	44.1	44.9	45.8	46.6	46.6	47.5	46.6	46.6	46.6



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-41SL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	34.8	38.2	39.8	41.5	42.4	43.2	44.1	44.1	44.1	44.1	44.1
115°	31.4	34.8	36.5	38.2	39.8	40.7	40.7	41.5	41.5	41.5	40.7
117.5°	28.0	31.4	33.1	34.8	35.6	37.3	38.2	38.2	38.2	38.2	37.3
120°	25.4	28.0	29.7	31.4	33.1	33.9	34.8	34.8	34.8	34.8	34.8
122.5°	22.0	24.6	27.1	28.8	29.7	30.5	31.4	31.4	31.4	31.4	31.4
125°	19.5	22.0	23.7	25.4	26.3	28.0	28.0	28.0	28.0	28.0	28.0
127.5°	17.0	19.5	21.2	22.9	23.7	24.6	25.4	25.4	25.4	25.4	25.4
130°	14.4	17.0	18.7	20.3	21.2	22.0	22.0	22.9	22.9	22.9	22.9
132.5°	12.7	14.4	16.1	17.8	18.7	19.5	19.5	20.3	20.3	20.3	20.3
135°	10.2	12.7	13.6	15.3	16.1	17.0	17.0	17.8	17.8	17.8	17.8
137.5°	8.5	10.2	11.9	13.6	14.4	14.4	15.3	15.3	16.1	16.1	16.1
140°	6.8	7.6	10.2	11.0	11.9	12.7	13.6	13.6	13.6	13.6	13.6
142.5°	5.1	6.8	7.6	9.3	10.2	11.0	11.9	11.9	11.9	11.9	11.9
145°	4.2	5.1	5.9	7.6	8.5	9.3	10.2	10.2	10.2	10.2	10.2
147.5°	3.4	4.2	5.1	5.9	6.8	7.6	8.5	8.5	8.5	8.5	8.5
150°	2.5	3.4	4.2	4.2	5.1	5.9	6.8	7.6	7.6	7.6	7.6
152.5°	2.5	2.5	3.4	3.4	4.2	5.1	5.9	5.9	5.9	5.9	5.9
155°	1.7	2.5	2.5	2.5	3.4	3.4	4.2	5.1	5.1	5.1	5.1
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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-LD5-41SL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1641.4	1641.4	1641.4	1641.4	1641.4	1641.4	1641.4	1641.4	1641.4	1641.4	1641.4
2.5°	1641.4	1644.8	1643.1	1640.6	1639.7	1643.9	1639.7	1620.2	1627.8	1628.7	1634.6
5°	1638.9	1641.4	1639.7	1638.0	1635.5	1640.6	1635.5	1615.1	1622.8	1623.6	1629.5
7.5°	1655.8	1656.7	1656.7	1652.4	1645.6	1648.2	1641.4	1618.5	1622.8	1622.8	1627.0
10°	1698.2	1699.9	1702.4	1691.4	1682.9	1676.2	1666.8	1638.9	1638.0	1631.2	1631.2
12.5°	1753.3	1749.1	1744.8	1739.8	1733.0	1724.5	1710.9	1677.9	1666.8	1655.8	1644.8
15°	1769.4	1767.7	1766.9	1764.3	1760.1	1757.6	1747.4	1714.3	1698.2	1684.6	1665.1
17.5°	1727.0	1730.4	1741.4	1742.3	1747.4	1757.6	1755.9	1733.0	1718.6	1712.6	1688.9
20°	1650.7	1651.6	1665.1	1671.1	1693.1	1710.1	1722.8	1720.3	1716.9	1723.6	1705.8
22.5°	1559.2	1565.1	1579.5	1588.8	1610.0	1629.5	1649.9	1660.9	1678.7	1706.7	1703.3
25°	1434.5	1442.2	1462.5	1477.8	1507.4	1537.1	1564.3	1583.8	1604.9	1658.4	1676.2
27.5°	1285.3	1297.2	1323.5	1338.7	1380.3	1410.8	1449.8	1487.9	1517.6	1578.7	1615.1
30°	1128.5	1138.6	1166.6	1187.8	1223.4	1265.0	1314.1	1368.4	1417.6	1479.5	1525.3
32.5°	981.8	992.8	1015.7	1034.4	1074.2	1109.0	1163.2	1230.2	1276.0	1361.6	1422.7
35°	853.8	863.9	880.1	896.2	929.2	964.8	1011.5	1076.7	1135.2	1224.3	1301.4
37.5°	763.9	765.6	774.9	784.2	808.8	836.0	872.4	930.1	984.3	1080.1	1164.9
40°	699.5	699.5	704.5	707.1	718.1	734.2	757.1	802.0	847.0	919.9	1023.3
42.5°	659.6	657.9	657.9	658.8	657.9	665.5	679.1	700.3	740.2	800.4	880.9
45°	629.9	626.5	624.0	618.1	614.7	614.7	615.5	623.2	646.0	685.0	750.3
47.5°	596.9	596.0	591.8	585.0	579.1	574.8	568.0	565.5	572.3	594.3	638.4
50°	558.7	554.5	550.2	545.2	538.4	534.1	521.4	522.3	516.3	526.5	549.4
52.5°	502.8	499.4	497.7	493.4	490.9	489.2	479.0	468.9	466.3	468.0	476.5
55°	440.9	442.6	435.8	439.2	438.3	430.7	426.5	418.8	416.3	415.4	419.7
57.5°	376.4	378.1	373.9	377.3	377.3	373.0	370.5	370.5	364.6	359.5	365.4
60°	317.9	314.5	317.1	321.3	321.3	318.8	317.1	317.1	312.9	311.2	315.4
62.5°	270.5	267.1	269.6	273.8	274.7	273.0	271.3	271.3	266.2	266.2	269.6
65°	234.0	234.8	234.0	237.4	237.4	238.2	236.5	234.8	228.9	231.5	230.6
67.5°	207.7	206.9	206.9	210.3	209.4	211.1	209.4	206.9	202.6	199.2	198.4
70°	185.7	184.8	184.8	186.5	187.4	187.4	186.5	184.8	178.9	175.5	173.0
72.5°	166.2	165.3	166.2	167.0	167.9	168.7	167.9	166.2	161.1	156.8	152.6
75°	148.4	147.5	150.1	150.1	150.9	150.9	151.8	150.9	146.7	141.6	136.5
77.5°	130.6	131.4	134.0	134.8	136.5	137.3	138.2	138.2	134.0	129.7	122.9
80°	116.2	117.8	119.5	120.4	122.1	124.6	125.5	126.3	122.9	118.7	111.1
82.5°	106.0	106.8	108.5	109.4	111.9	112.8	113.6	115.3	113.6	109.4	100.9
85°	97.5	98.3	100.0	100.0	101.7	103.4	104.3	105.1	104.3	100.0	91.6
87.5°	89.9	90.7	91.6	92.4	93.3	94.1	95.0	95.8	95.0	90.7	83.1
90°	83.1	83.1	83.9	83.9	84.8	85.6	87.3	87.3	86.5	83.1	75.5
92.5°	75.5	76.3	76.3	77.2	78.0	78.8	79.7	79.7	78.8	75.5	68.7
95°	70.4	70.4	71.2	71.2	72.1	72.1	72.9	72.9	72.1	68.7	61.9
97.5°	64.4	64.4	64.4	64.4	65.3	65.3	66.1	66.1	65.3	61.9	56.0
100°	59.3	59.3	59.3	59.3	59.3	60.2	60.2	60.2	59.3	56.0	50.0
102.5°	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	53.4	50.9	44.9
105°	52.6	52.6	52.6	51.7	51.7	51.7	50.9	50.9	48.3	45.8	40.7
107.5°	49.2	49.2	49.2	48.3	48.3	47.5	46.6	46.6	44.1	41.5	36.5
110°	46.6	46.6	46.6	45.8	44.9	44.1	43.2	42.4	39.8	36.5	32.2





TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-41SL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	44.1	44.1	43.2	43.2	42.4	41.5	39.8	39.0	36.5	33.1	28.8
115°	40.7	40.7	40.7	39.8	39.0	38.2	37.3	35.6	33.1	29.7	25.4
117.5°	37.3	37.3	37.3	36.5	35.6	34.8	33.9	32.2	29.7	26.3	22.9
120°	33.9	33.9	33.9	33.1	32.2	31.4	30.5	28.8	26.3	23.7	19.5
122.5°	31.4	31.4	30.5	29.7	28.8	28.0	27.1	25.4	23.7	20.3	17.0
125°	28.0	28.0	27.1	27.1	26.3	25.4	24.6	22.9	20.3	17.8	15.3
127.5°	25.4	24.6	24.6	24.6	23.7	22.9	21.2	20.3	17.8	15.3	12.7
130°	22.0	22.0	22.0	21.2	21.2	20.3	18.7	17.0	15.3	13.6	11.0
132.5°	19.5	19.5	19.5	19.5	18.7	17.8	16.1	15.3	13.6	11.0	9.3
135°	17.8	17.8	17.0	17.0	16.1	15.3	14.4	12.7	11.0	9.3	7.6
137.5°	15.3	15.3	15.3	14.4	14.4	13.6	11.9	11.0	10.2	8.5	6.8
140°	13.6	13.6	12.7	12.7	11.9	11.9	11.0	9.3	8.5	6.8	5.9
142.5°	11.9	11.9	11.0	11.0	10.2	10.2	9.3	8.5	6.8	5.9	4.2
145°	10.2	10.2	9.3	9.3	9.3	8.5	7.6	6.8	5.9	5.1	4.2
147.5°	8.5	8.5	8.5	7.6	7.6	6.8	6.8	5.9	5.1	4.2	3.4
150°	7.6	7.6	6.8	6.8	6.8	5.9	5.1	5.1	4.2	3.4	2.5
152.5°	5.9	5.9	5.9	5.9	5.1	5.1	4.2	4.2	3.4	2.5	2.5
155°	5.1	5.1	5.1	4.2	4.2	4.2	3.4	3.4	2.5	2.5	1.7
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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-LD5-41SL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1641.4	1641.4	1641.4	1641.4	1641.4	1641.4	1641.4
2.5°	1632.1	1631.2	1638.9	1638.0	1627.8	1643.1	1653.3
5°	1627.8	1627.0	1633.8	1635.5	1624.4	1640.6	1651.6
7.5°	1624.4	1623.6	1631.2	1633.8	1622.8	1637.2	1649.0
10°	1625.3	1621.1	1627.8	1629.5	1619.4	1634.6	1644.8
12.5°	1631.2	1621.1	1623.6	1623.6	1614.3	1627.8	1638.9
15°	1645.6	1624.4	1621.1	1618.5	1606.6	1619.4	1630.4
17.5°	1661.8	1632.9	1621.1	1612.6	1598.2	1609.2	1621.1
20°	1677.9	1642.3	1622.8	1609.2	1589.7	1599.9	1608.3
22.5°	1685.5	1650.7	1624.4	1604.1	1579.5	1584.6	1593.9
25°	1675.3	1647.3	1621.1	1596.5	1566.8	1567.6	1575.3
27.5°	1638.0	1630.4	1613.4	1588.8	1556.6	1552.4	1558.3
30°	1574.4	1595.6	1596.5	1578.7	1544.8	1536.3	1538.8
32.5°	1485.4	1532.9	1560.9	1557.5	1527.8	1515.9	1517.6
35°	1382.8	1442.2	1503.2	1523.6	1502.4	1493.0	1489.6
37.5°	1259.9	1339.6	1421.0	1471.0	1467.6	1461.7	1458.3
40°	1124.2	1220.0	1316.7	1396.4	1421.0	1421.0	1422.7
42.5°	979.2	1091.2	1197.1	1298.0	1355.7	1368.4	1373.5
45°	839.4	952.1	1067.4	1183.6	1260.7	1300.6	1315.0
47.5°	712.2	825.8	935.2	1062.3	1164.9	1216.6	1239.5
50°	603.7	688.4	803.7	930.1	1042.0	1105.6	1150.5
52.5°	513.8	579.9	680.8	798.7	911.4	998.7	1040.3
55°	438.3	483.3	568.9	670.6	778.3	869.0	917.4
57.5°	374.7	410.4	468.9	553.6	644.4	734.2	785.9
60°	318.8	343.4	383.2	450.2	527.4	604.5	654.5
62.5°	270.5	286.6	312.9	362.0	422.2	482.4	529.0
65°	233.2	239.9	254.3	284.9	330.7	376.4	416.3
67.5°	196.7	200.9	212.0	230.6	253.5	286.6	312.9
70°	169.6	169.6	170.4	181.4	193.3	214.5	233.2
72.5°	147.5	145.0	139.9	142.4	145.0	156.8	168.7
75°	129.7	123.8	115.3	111.9	110.2	111.9	118.7
77.5°	114.5	106.0	95.8	87.3	80.5	78.0	83.9
80°	101.7	91.6	79.7	68.7	57.7	51.7	54.3
82.5°	91.6	78.8	66.1	53.4	40.7	32.2	32.2
85°	80.5	68.7	55.1	41.5	28.8	17.8	16.1
87.5°	72.9	60.2	45.8	33.1	20.3	9.3	5.1
90°	65.3	52.6	39.0	26.3	14.4	4.2	0.0
92.5°	58.5	46.6	33.9	21.2	10.2	2.5	0.0
95°	52.6	41.5	28.8	17.8	8.5	1.7	0.8
97.5°	46.6	36.5	25.4	14.4	5.9	1.7	0.8
100°	42.4	32.2	22.0	11.9	5.1	0.8	0.8
102.5°	37.3	28.8	18.7	10.2	4.2	0.8	0.8
105°	33.1	25.4	16.1	8.5	3.4	0.8	0.8
107.5°	29.7	22.0	14.4	7.6	3.4	0.8	0.8
110°	26.3	19.5	12.7	6.8	2.5	0.8	0.8



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-41SL-LC-UNV-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	23.7	17.0	11.0	5.9	1.7	0.8	0.8
115°	20.3	15.3	9.3	5.1	1.7	0.8	0.8
117.5°	17.8	12.7	8.5	4.2	1.7	0.8	0.8
120°	15.3	11.0	6.8	3.4	0.8	0.8	0.8
122.5°	13.6	9.3	5.9	3.4	0.8	0.8	0.8
125°	11.9	8.5	5.1	2.5	0.8	0.8	0.8
127.5°	10.2	6.8	4.2	1.7	0.8	0.8	0.8
130°	8.5	5.9	3.4	1.7	0.8	0.8	0.8
132.5°	6.8	5.1	3.4	1.7	0.8	0.8	0.8
135°	5.9	4.2	2.5	1.7	0.8	0.8	0.8
137.5°	5.1	3.4	1.7	1.7	1.7	0.8	0.8
140°	4.2	2.5	1.7	1.7	1.7	1.7	0.8
142.5°	3.4	2.5	1.7	1.7	1.7	1.7	0.8
145°	2.5	1.7	1.7	1.7	1.7	1.7	0.8
147.5°	2.5	1.7	1.7	1.7	1.7	1.7	0.8
150°	1.7	1.7	1.7	1.7	1.7	1.7	1.7
152.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7
155°	1.7	1.7	1.7	1.7	1.7	1.7	1.7
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)