

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: **2SNLED-LD5-46HL-LC-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 (P33518)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2SNLED-LD5-46HL-LC-UNV-L935-CD1-U  
Description: 2FT LINEAR SNLED LED FIXTURE  
CLEAR LENSED  
Light Source: -  
Ballast/Driver: -

**Summary**

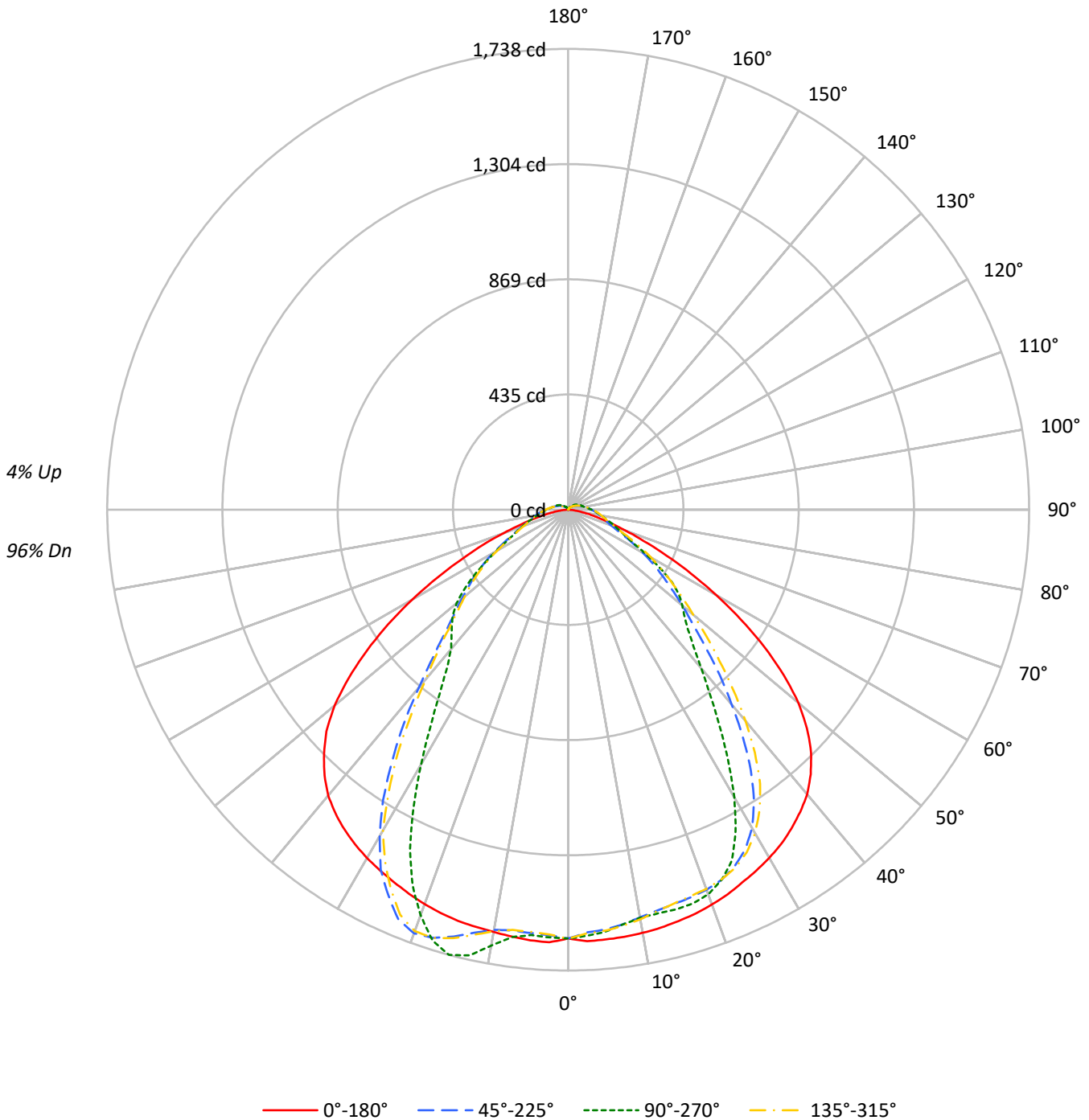
Lumens per Lamp: N/A  
Luminaire Lumens: 3855.0 lumens  
Efficiency: N/A  
Efficacy: 107.1 lumens/watt  
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 36  
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°	26136	26136	26136	26136
5°	26254	25100	26307	25296
10°	26303	24055	26250	25689
15°	26433	23733	26419	26426
20°	26646	23358	26618	24621
25°	26891	22157	26877	21411
30°	27307	19205	27321	17013
35°	27742	15530	27819	13141
40°	28097	12503	28214	11016
45°	27869	10591	28013	10313
50°	26525	9751	26894	9534
55°	23380	8765	23962	7967
60°	18807	6709	19807	6153
65°	13830	5132	14902	4867
70°	9264	4429	10441	4236
75°	5919	3998	6891	3779
80°	3676	3727	4302	3430
85°	1720	3719	2261	3396



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.6	4.0
10°-20°	457.0	11.9
20°-30°	694.8	18.0
30°-40°	745.4	19.3
40°-50°	646.9	16.8
50°-60°	479.4	12.4
60°-70°	274.7	7.1
70°-80°	152.1	3.9
80°-90°	92.6	2.4
90°-100°	60.2	1.6
100°-110°	40.3	1.0
110°-120°	27.2	0.7
120°-130°	16.7	0.4
130°-140°	8.8	0.2
140°-150°	4.0	0.1
150°-160°	1.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1305.4	33.9
0°-40°	2050.8	53.2
0°-60°	3177.1	82.4
0°-90°	3696.5	95.9
90°-120°	127.8	3.3
90°-150°	157.3	4.1
90°-180°	158.0	4.1
0°-180°	3855.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1617	1617	1617	1617	1617	
5°	1627	1598	1630	1610	1627	155
15°	1606	1561	1605	1738	1606	454
25°	1552	1460	1551	1411	1552	717
35°	1468	994	1472	841	1468	919
45°	1296	637	1302	621	1296	992
55°	904	478	926	434	904	801
65°	410	242	442	230	410	413
75°	117	154	136	145	117	134
85°	16	106	21	97	16	21
90°	0	88	2	82	0	1
95°	1	73	0	69	1	1
105°	1	54	1	52	1	1
115°	1	44	1	40	1	1
125°	1	33	1	28	1	1
135°	1	21	1	18	1	1
145°	1	12	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	



TEST NUMBER: P#

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1617.1	1617.1	1617.1	1617.1	1617.1	1617.1	1617.1	1617.1	1617.1	1617.1	1617.1
2.5°	1628.8	1624.6	1622.9	1619.6	1622.1	1632.1	1625.4	1614.6	1615.4	1596.2	1606.2
5°	1627.1	1622.1	1619.6	1616.2	1617.9	1627.1	1620.4	1609.6	1608.7	1589.5	1598.7
7.5°	1624.6	1619.6	1615.4	1612.9	1613.7	1621.3	1612.9	1600.4	1597.9	1577.0	1585.3
10°	1620.4	1617.1	1611.2	1607.1	1606.2	1614.6	1601.2	1588.7	1582.8	1561.1	1569.5
12.5°	1614.6	1609.6	1603.7	1596.2	1595.4	1600.4	1589.5	1572.0	1566.1	1548.6	1557.8
15°	1606.2	1600.4	1593.7	1585.3	1581.2	1584.5	1571.1	1555.3	1554.4	1539.4	1551.9
17.5°	1597.0	1588.7	1581.2	1569.5	1563.6	1566.1	1555.3	1541.1	1542.7	1533.5	1547.7
20°	1584.5	1575.3	1563.6	1551.9	1543.6	1547.7	1540.2	1529.4	1531.9	1525.2	1537.7
22.5°	1570.3	1557.8	1543.6	1530.2	1523.5	1529.4	1523.5	1514.3	1515.2	1511.0	1518.5
25°	1551.9	1537.7	1521.0	1504.3	1501.0	1505.1	1501.8	1494.3	1490.9	1484.3	1487.6
27.5°	1535.2	1519.3	1498.5	1480.9	1475.1	1483.4	1475.9	1463.4	1454.2	1445.0	1438.3
30°	1516.0	1496.8	1473.4	1453.4	1448.4	1451.7	1440.8	1421.6	1397.4	1385.7	1367.3
32.5°	1495.1	1470.1	1440.8	1418.3	1414.9	1412.4	1392.4	1364.8	1327.2	1303.9	1275.5
35°	1467.6	1440.0	1404.9	1377.4	1372.3	1358.1	1325.6	1288.8	1240.4	1200.3	1151.8
37.5°	1436.7	1404.1	1367.3	1330.6	1316.4	1288.0	1242.0	1203.6	1130.1	1081.7	1023.2
40°	1401.6	1362.3	1317.2	1272.9	1249.6	1203.6	1151.0	1094.2	1023.2	958.0	908.8
42.5°	1353.1	1311.4	1257.9	1208.6	1168.5	1107.6	1045.8	965.6	900.4	845.3	795.2
45°	1295.5	1245.4	1183.6	1124.3	1073.3	1000.6	928.0	847.8	793.5	729.2	694.9
47.5°	1221.2	1166.9	1100.9	1034.9	968.1	887.9	811.9	735.0	680.7	634.8	609.7
50°	1133.5	1083.3	1010.7	932.2	858.7	775.1	699.1	641.5	588.9	560.5	541.3
52.5°	1024.9	978.1	903.8	818.6	747.6	665.7	596.4	549.6	512.0	491.1	484.5
55°	903.8	862.8	789.3	710.0	637.3	562.1	509.5	468.6	444.4	431.8	432.7
57.5°	774.3	742.6	673.2	602.2	533.7	476.9	429.3	396.8	378.4	377.5	380.0
60°	644.8	621.4	561.3	500.3	440.2	394.2	359.2	336.6	324.9	325.8	324.9
62.5°	521.2	499.5	456.1	405.9	358.3	327.4	295.7	286.5	276.5	275.6	275.6
65°	410.1	393.4	358.3	322.4	286.5	266.4	250.6	239.7	232.2	230.5	231.4
67.5°	308.2	301.5	277.3	253.1	230.5	218.0	204.6	202.1	196.3	196.3	198.0
70°	229.7	224.7	211.3	197.1	187.9	179.6	172.9	172.9	172.1	171.2	175.4
72.5°	166.2	167.1	162.9	152.0	151.2	149.5	147.8	150.3	151.2	153.7	158.7
75°	116.9	119.4	119.4	117.8	121.1	125.3	127.8	132.0	137.0	140.3	146.2
77.5°	82.7	82.7	86.9	91.9	98.6	106.1	112.8	118.6	125.3	129.5	134.5
80°	53.5	56.0	62.6	71.8	81.0	91.0	100.2	107.7	114.4	121.1	124.5
82.5°	31.7	35.9	44.3	56.0	67.7	80.2	89.4	98.6	106.1	112.8	115.3
85°	15.9	21.7	31.7	44.3	56.8	70.2	81.9	90.2	98.6	104.4	107.7
87.5°	5.0	11.7	22.6	34.2	47.6	61.0	73.5	82.7	90.2	95.2	98.6
90°	0.0	5.8	15.9	28.4	40.9	54.3	66.0	76.0	83.5	87.7	90.2
92.5°	0.0	3.3	12.5	23.4	35.1	48.4	60.1	69.3	76.0	80.2	81.9
95°	0.8	2.5	9.2	19.2	30.9	43.4	54.3	62.6	69.3	73.5	74.3
97.5°	0.8	1.7	7.5	15.9	26.7	38.4	49.3	57.6	62.6	66.8	67.7
100°	0.8	1.7	5.8	14.2	23.4	34.2	44.3	51.8	57.6	61.0	61.8
102.5°	0.8	0.8	5.0	11.7	20.9	30.1	39.3	46.8	51.8	55.1	56.8
105°	0.8	0.8	4.2	10.0	18.4	26.7	35.1	42.6	46.8	50.1	51.8
107.5°	0.8	0.8	3.3	8.4	15.9	23.4	31.7	37.6	42.6	45.9	47.6
110°	0.8	0.8	2.5	7.5	13.4	20.9	27.6	33.4	38.4	41.8	43.4



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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	6.7	11.7	18.4	24.2	30.1	34.2	37.6	40.1
115°	0.8	0.8	2.5	5.8	10.9	15.9	21.7	26.7	30.9	34.2	36.8
117.5°	0.8	0.8	2.5	5.0	9.2	14.2	19.2	24.2	27.6	30.9	33.4
120°	0.8	0.8	1.7	4.2	8.4	12.5	16.7	20.9	25.1	28.4	30.9
122.5°	0.8	0.8	1.7	4.2	6.7	10.9	15.0	18.4	22.6	25.1	27.6
125°	0.8	0.8	1.7	3.3	5.8	10.0	13.4	16.7	19.2	22.6	25.1
127.5°	0.8	0.8	1.7	3.3	5.0	8.4	11.7	15.0	17.5	20.0	21.7
130°	0.8	0.8	1.7	2.5	4.2	6.7	10.0	12.5	15.9	17.5	19.2
132.5°	0.8	0.8	0.8	2.5	3.3	5.0	7.5	10.9	13.4	15.9	16.7
135°	0.8	0.8	0.8	1.7	3.3	4.2	5.8	8.4	10.9	13.4	15.0
137.5°	0.8	0.8	0.8	1.7	2.5	4.2	5.0	6.7	9.2	10.9	13.4
140°	0.8	0.8	0.8	1.7	2.5	3.3	4.2	5.8	7.5	9.2	10.9
142.5°	0.8	0.8	0.8	1.7	1.7	2.5	3.3	5.0	5.8	7.5	9.2
145°	0.8	0.8	0.8	1.7	1.7	2.5	3.3	4.2	5.0	5.8	7.5
147.5°	0.8	0.8	0.8	1.7	1.7	1.7	2.5	3.3	4.2	5.0	5.8
150°	1.7	1.7	1.7	1.7	1.7	1.7	2.5	2.5	3.3	4.2	5.0
152.5°	1.7	1.7	1.7	1.7	1.7	1.7	2.5	2.5	2.5	3.3	4.2
155°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.5	2.5	3.3	3.3
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°	1617.1	1617.1	1617.1	1617.1	1617.1	1617.1	1617.1	1617.1	1617.1	1617.1	1617.1
2.5°	1602.9	1604.5	1614.6	1613.7	1612.1	1610.4	1610.4	1608.7	1610.4	1614.6	1612.9
5°	1594.5	1597.0	1604.5	1603.7	1602.0	1601.2	1600.4	1597.9	1599.5	1605.4	1603.7
7.5°	1579.5	1582.0	1588.7	1585.3	1582.8	1584.5	1580.3	1577.8	1581.2	1587.0	1586.2
10°	1563.6	1565.3	1573.6	1572.0	1567.8	1568.6	1564.5	1562.8	1567.0	1570.3	1571.1
12.5°	1552.8	1558.6	1566.1	1565.3	1564.5	1565.3	1561.1	1559.4	1561.9	1565.3	1564.5
15°	1550.3	1557.8	1566.1	1566.1	1567.0	1567.8	1563.6	1561.1	1563.6	1566.1	1565.3
17.5°	1547.7	1556.9	1564.5	1563.6	1564.5	1566.1	1559.4	1557.8	1561.1	1564.5	1562.8
20°	1539.4	1547.7	1552.8	1551.1	1551.1	1551.9	1543.6	1543.6	1548.6	1551.1	1551.9
22.5°	1516.0	1526.0	1526.0	1521.9	1521.9	1518.5	1516.0	1511.0	1516.8	1521.0	1524.4
25°	1480.9	1485.1	1480.1	1470.9	1465.9	1461.7	1450.0	1460.0	1460.0	1472.6	1476.8
27.5°	1431.6	1422.5	1408.3	1389.0	1384.9	1371.5	1364.0	1366.5	1370.7	1388.2	1401.6
30°	1350.6	1323.1	1298.8	1290.5	1272.1	1258.7	1245.4	1252.1	1259.6	1269.6	1297.2
32.5°	1243.7	1217.0	1177.7	1163.5	1144.3	1127.6	1111.7	1121.8	1135.1	1141.8	1171.9
35°	1120.9	1089.2	1053.3	1029.0	1009.0	999.8	979.8	994.0	1008.2	1013.2	1039.1
37.5°	990.6	958.0	926.3	905.4	886.2	880.4	867.0	877.0	887.9	895.4	917.1
40°	867.0	836.9	812.7	798.5	785.1	780.1	775.1	779.3	787.7	793.5	810.2
42.5°	760.9	736.7	720.0	711.6	702.5	695.8	696.6	698.3	702.5	715.0	722.5
45°	668.2	654.0	643.2	641.5	635.6	634.8	634.0	637.3	639.8	647.3	653.2
47.5°	593.9	588.0	585.5	588.9	591.4	588.0	589.7	593.9	598.9	598.9	598.1
50°	535.4	537.1	540.4	547.9	552.9	554.6	556.3	561.3	562.1	563.8	561.3
52.5°	487.8	489.5	498.7	510.3	516.2	518.7	522.0	527.1	527.1	528.7	525.4
55°	439.3	441.9	451.0	462.7	467.7	471.1	474.4	477.8	480.3	483.6	481.1
57.5°	385.9	393.4	399.3	402.6	405.9	408.4	411.0	411.8	416.8	417.6	421.8
60°	329.1	330.8	336.6	335.8	333.3	340.0	336.6	342.5	348.3	355.8	356.7
62.5°	274.8	275.6	279.8	278.1	281.5	280.6	283.2	283.2	287.3	290.7	294.8
65°	232.2	233.0	236.4	236.4	235.5	238.1	240.6	242.2	242.2	244.7	248.1
67.5°	200.5	203.0	206.3	208.0	209.7	209.7	212.2	213.0	214.7	215.5	217.2
70°	178.7	182.1	185.4	187.1	187.9	189.6	190.4	190.4	192.1	192.9	194.6
72.5°	162.9	166.2	168.7	168.7	170.4	171.2	171.2	172.1	172.9	174.6	176.2
75°	149.5	152.0	153.7	152.9	152.9	152.9	153.7	153.7	155.4	157.0	158.7
77.5°	137.0	139.5	139.5	137.8	137.8	137.8	137.8	138.7	139.5	141.2	142.8
80°	127.8	127.8	127.0	127.0	125.3	124.5	124.5	125.3	125.3	127.0	129.5
82.5°	117.8	117.8	116.9	116.1	115.3	114.4	114.4	115.3	116.1	116.9	118.6
85°	108.6	108.6	106.9	106.9	106.1	106.1	106.1	106.1	106.9	107.7	109.4
87.5°	99.4	98.6	97.7	96.9	96.9	96.9	96.9	96.9	97.7	99.4	100.2
90°	90.2	89.4	88.5	88.5	87.7	87.7	88.5	88.5	89.4	90.2	91.0
92.5°	81.9	81.0	80.2	80.2	79.4	79.4	80.2	79.4	81.0	81.0	81.9
95°	74.3	73.5	72.7	72.7	72.7	72.7	72.7	72.7	73.5	73.5	74.3
97.5°	67.7	66.8	66.0	66.0	66.8	66.0	66.8	66.8	66.8	67.7	68.5
100°	61.8	61.0	61.0	61.8	61.0	61.0	61.8	61.8	61.8	61.8	62.6
102.5°	56.8	56.8	56.8	56.8	56.8	56.8	57.6	57.6	57.6	57.6	58.5
105°	51.8	52.6	52.6	52.6	53.5	53.5	53.5	54.3	54.3	54.3	54.3
107.5°	48.4	49.3	49.3	50.1	50.1	51.0	51.0	51.0	51.0	51.8	51.8
110°	45.1	45.9	46.8	47.6	47.6	48.4	48.4	48.4	48.4	48.4	48.4





TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-46HL-LC-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	41.8	42.6	43.4	45.1	45.9	45.9	45.9	45.9	46.8	46.8	45.9
115°	38.4	40.1	40.9	42.6	43.4	43.4	44.3	44.3	44.3	44.3	43.4
117.5°	35.1	37.6	38.4	40.1	40.9	40.9	41.8	41.8	41.8	41.8	40.9
120°	32.6	34.2	35.9	36.8	37.6	38.4	38.4	39.3	39.3	39.3	38.4
122.5°	30.1	31.7	33.4	34.2	35.1	35.9	35.9	35.9	35.9	35.9	35.9
125°	26.7	28.4	30.1	30.9	31.7	32.6	32.6	33.4	33.4	33.4	32.6
127.5°	24.2	25.9	26.7	28.4	29.2	29.2	30.1	30.1	30.1	30.1	29.2
130°	20.9	22.6	24.2	25.1	25.9	25.9	26.7	26.7	26.7	26.7	26.7
132.5°	18.4	20.0	20.9	22.6	22.6	23.4	23.4	24.2	24.2	24.2	23.4
135°	16.7	17.5	18.4	20.0	20.0	20.9	20.9	20.9	20.9	20.9	20.9
137.5°	15.0	15.9	16.7	17.5	17.5	18.4	18.4	18.4	18.4	19.2	18.4
140°	12.5	14.2	15.0	15.0	15.9	15.9	15.9	16.7	16.7	16.7	15.9
142.5°	10.9	11.7	12.5	13.4	14.2	14.2	14.2	14.2	15.0	14.2	14.2
145°	8.4	10.0	10.9	11.7	12.5	12.5	12.5	12.5	12.5	12.5	12.5
147.5°	6.7	7.5	9.2	10.0	10.0	10.9	10.9	10.9	10.9	10.9	10.9
150°	5.8	5.8	7.5	8.4	9.2	9.2	9.2	9.2	9.2	9.2	9.2
152.5°	4.2	5.0	5.8	6.7	7.5	7.5	7.5	7.5	7.5	7.5	7.5
155°	4.2	4.2	5.0	5.0	5.8	5.8	5.8	5.8	6.7	5.8	5.8
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: 2SNLED-LD5-46HL-LC-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1617.1	1617.1	1617.1	1617.1	1617.1	1617.1	1617.1	1617.1	1617.1	1617.1	1617.1
2.5°	1610.4	1609.6	1612.9	1609.6	1592.9	1599.5	1597.0	1606.2	1607.1	1609.6	1617.9
5°	1602.0	1602.0	1606.2	1602.9	1587.0	1593.7	1592.9	1602.0	1603.7	1605.4	1614.6
7.5°	1585.3	1586.2	1592.0	1589.5	1572.8	1582.8	1582.0	1592.9	1596.2	1599.5	1607.9
10°	1569.5	1568.6	1575.3	1572.8	1556.9	1568.6	1567.8	1578.7	1583.7	1589.5	1599.5
12.5°	1561.1	1558.6	1561.1	1558.6	1541.1	1550.3	1551.1	1563.6	1569.5	1577.0	1588.7
15°	1561.1	1556.9	1556.9	1551.9	1531.9	1537.7	1538.6	1546.9	1554.4	1561.9	1576.1
17.5°	1559.4	1555.3	1554.4	1550.3	1528.5	1528.5	1527.7	1533.5	1537.7	1545.2	1560.3
20°	1550.3	1548.6	1547.7	1545.2	1525.2	1521.9	1520.2	1520.2	1522.7	1525.2	1540.2
22.5°	1526.0	1527.7	1529.4	1531.0	1515.2	1509.3	1510.2	1508.5	1506.0	1506.0	1518.5
25°	1480.9	1489.3	1496.0	1503.5	1494.3	1490.1	1495.1	1492.6	1488.4	1485.1	1496.0
27.5°	1409.1	1426.6	1440.8	1459.2	1460.0	1456.7	1470.1	1468.4	1467.6	1462.6	1470.9
30°	1309.7	1337.3	1356.5	1383.2	1405.8	1409.1	1431.6	1435.0	1438.3	1435.8	1444.2
32.5°	1189.4	1227.0	1259.6	1301.3	1323.1	1342.3	1374.0	1387.4	1400.7	1404.9	1414.1
35°	1058.3	1100.9	1139.3	1185.2	1219.5	1261.3	1299.7	1319.7	1349.8	1361.5	1374.8
37.5°	933.8	973.9	1011.5	1057.4	1112.6	1156.0	1203.6	1248.7	1289.7	1306.4	1326.4
40°	823.6	856.1	892.1	932.2	982.3	1039.1	1090.9	1153.5	1201.9	1235.4	1264.6
42.5°	740.0	755.9	786.8	822.7	862.8	920.5	973.1	1043.2	1101.7	1149.3	1197.8
45°	665.7	673.2	695.8	715.0	755.9	806.9	862.8	931.3	992.3	1053.3	1111.7
47.5°	602.2	611.4	622.3	634.0	663.2	705.8	754.2	816.1	877.0	948.0	1014.8
50°	559.6	562.1	563.8	568.8	586.4	615.6	654.8	707.5	765.9	841.9	912.9
52.5°	522.0	522.0	517.0	514.5	521.2	539.6	562.1	599.7	659.9	730.0	805.2
55°	481.9	474.4	472.8	464.4	466.1	474.4	485.3	514.5	563.8	623.9	696.6
57.5°	426.0	422.6	422.6	419.3	412.6	416.8	419.3	440.2	475.3	527.1	590.5
60°	361.7	360.0	364.2	365.0	359.2	361.7	360.8	373.4	398.4	440.2	492.8
62.5°	297.4	304.9	305.7	309.0	305.7	304.9	309.0	319.9	332.4	364.2	405.1
65°	249.7	253.9	254.8	258.9	257.3	257.3	260.6	269.0	276.5	298.2	329.9
67.5°	218.8	217.2	218.0	220.5	218.0	217.2	219.7	224.7	230.5	243.9	266.4
70°	194.6	192.9	192.9	192.9	189.6	187.1	187.9	189.6	192.1	199.6	213.8
72.5°	176.2	176.2	173.7	171.2	168.7	167.1	165.4	163.7	162.9	165.4	172.9
75°	159.5	160.4	159.5	157.0	153.7	150.3	147.0	143.7	139.5	137.8	138.7
77.5°	144.5	145.3	146.2	145.3	142.0	137.8	132.8	127.8	121.9	116.1	112.8
80°	131.1	132.8	133.6	132.8	130.3	127.0	121.1	115.3	106.9	99.4	91.0
82.5°	119.4	121.9	122.8	122.8	121.1	117.8	111.1	104.4	95.2	85.2	74.3
85°	110.3	111.9	113.6	113.6	112.8	109.4	102.7	95.2	86.0	74.3	62.6
87.5°	101.1	101.9	103.6	105.2	103.6	100.2	94.4	86.0	76.8	65.2	51.8
90°	91.9	92.7	94.4	96.1	95.2	91.9	86.9	79.4	69.3	56.8	43.4
92.5°	82.7	84.4	85.2	86.0	86.9	84.4	80.2	72.7	62.6	50.1	37.6
95°	76.0	76.0	77.7	78.5	79.4	76.8	73.5	66.0	56.8	45.1	32.6
97.5°	69.3	69.3	71.0	71.0	71.8	70.2	66.8	60.1	51.0	40.1	27.6
100°	62.6	63.5	64.3	65.2	65.2	64.3	61.0	54.3	45.9	35.9	24.2
102.5°	58.5	58.5	59.3	59.3	60.1	58.5	55.1	49.3	40.9	31.7	20.9
105°	54.3	54.3	55.1	55.1	54.3	52.6	49.3	44.3	36.8	27.6	18.4
107.5°	51.0	51.0	51.0	51.0	50.1	48.4	45.1	39.3	32.6	25.1	16.7
110°	48.4	47.6	47.6	46.8	45.9	43.4	40.1	35.1	29.2	21.7	14.2



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-46HL-LC-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	45.9	45.1	44.3	43.4	41.8	39.3	35.9	31.7	25.9	19.2	12.5
115°	43.4	42.6	41.8	40.1	38.4	35.9	32.6	28.4	22.6	16.7	10.9
117.5°	40.9	40.1	38.4	36.8	35.1	32.6	29.2	25.1	20.0	15.0	10.0
120°	37.6	36.8	35.9	34.2	32.6	29.2	25.9	22.6	17.5	13.4	8.4
122.5°	35.1	34.2	32.6	31.7	29.2	26.7	23.4	20.0	15.9	11.7	7.5
125°	31.7	30.9	30.1	28.4	26.7	23.4	20.9	17.5	14.2	10.0	5.8
127.5°	29.2	28.4	26.7	25.1	23.4	20.9	18.4	15.9	12.5	8.4	5.8
130°	25.9	25.1	24.2	22.6	20.9	18.4	16.7	13.4	10.9	7.5	5.0
132.5°	22.6	22.6	21.7	20.0	18.4	16.7	14.2	11.7	9.2	6.7	4.2
135°	20.9	20.0	19.2	17.5	16.7	14.2	12.5	10.0	7.5	5.8	3.3
137.5°	18.4	17.5	16.7	15.9	14.2	12.5	10.9	8.4	6.7	5.0	3.3
140°	15.9	15.0	15.0	13.4	12.5	10.9	9.2	7.5	5.8	4.2	2.5
142.5°	14.2	13.4	12.5	11.7	10.9	9.2	7.5	5.8	5.0	3.3	2.5
145°	12.5	11.7	10.9	10.0	9.2	7.5	6.7	5.0	4.2	3.3	2.5
147.5°	10.0	10.0	9.2	8.4	7.5	6.7	5.8	5.0	3.3	2.5	1.7
150°	8.4	8.4	7.5	6.7	6.7	5.8	5.0	4.2	3.3	2.5	1.7
152.5°	7.5	6.7	6.7	5.8	5.8	5.0	4.2	3.3	2.5	2.5	1.7
155°	5.8	5.8	5.8	5.0	5.0	4.2	3.3	3.3	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: 2SNLED-LD5-46HL-LC-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1617.1	1617.1	1617.1	1617.1	1617.1	1617.1	1617.1	1617.1	1617.1	1617.1	1617.1
2.5°	1619.6	1609.6	1617.9	1632.9	1631.3	1629.6	1627.9	1631.3	1642.1	1636.3	1627.1
5°	1617.1	1607.1	1616.2	1630.4	1629.6	1627.1	1625.4	1628.8	1639.6	1633.8	1623.8
7.5°	1612.1	1602.9	1609.6	1623.8	1623.8	1622.1	1620.4	1623.8	1633.8	1628.8	1618.7
10°	1603.7	1597.0	1603.7	1617.1	1617.9	1614.6	1612.9	1617.1	1627.1	1624.6	1616.2
12.5°	1597.0	1590.3	1597.9	1611.2	1612.1	1608.7	1606.2	1611.2	1624.6	1626.3	1623.8
15°	1587.8	1582.0	1591.2	1605.4	1605.4	1602.9	1602.9	1609.6	1627.9	1635.5	1639.6
17.5°	1574.5	1570.3	1581.2	1595.4	1596.2	1594.5	1595.4	1608.7	1632.9	1651.3	1663.0
20°	1557.8	1556.1	1567.8	1582.8	1585.3	1586.2	1590.3	1610.4	1643.8	1668.9	1680.6
22.5°	1537.7	1538.6	1551.9	1567.8	1571.1	1573.6	1582.0	1610.4	1652.2	1678.9	1683.9
25°	1515.2	1517.7	1531.9	1551.1	1555.3	1560.3	1574.5	1611.2	1654.7	1672.2	1663.8
27.5°	1490.9	1496.0	1514.3	1534.4	1539.4	1547.7	1566.1	1606.2	1643.0	1643.8	1612.9
30°	1465.9	1471.7	1493.5	1516.8	1525.2	1533.5	1556.1	1594.5	1614.6	1587.8	1533.5
32.5°	1437.5	1445.8	1467.6	1496.0	1506.0	1516.8	1539.4	1572.0	1564.5	1506.8	1429.1
35°	1401.6	1413.3	1438.3	1471.7	1480.9	1495.1	1511.0	1518.5	1485.1	1403.2	1315.5
37.5°	1357.3	1374.8	1404.1	1442.5	1452.5	1461.7	1465.9	1445.0	1378.2	1289.7	1198.6
40°	1306.4	1333.1	1364.8	1407.4	1417.4	1417.4	1402.4	1358.1	1273.8	1157.7	1056.6
42.5°	1244.5	1277.1	1317.2	1359.8	1369.8	1358.1	1322.2	1244.5	1148.5	1019.0	912.1
45°	1169.4	1212.8	1257.9	1302.2	1307.2	1281.3	1217.0	1118.4	999.8	879.5	777.6
47.5°	1080.0	1136.8	1186.1	1236.2	1229.5	1186.1	1100.0	988.1	862.8	749.2	667.4
50°	979.8	1046.6	1101.7	1149.3	1135.1	1075.0	973.9	857.0	732.5	635.6	568.0
52.5°	872.9	949.7	1004.8	1043.2	1024.0	952.2	841.1	729.2	627.3	538.7	493.6
55°	761.8	839.4	896.2	926.3	901.3	823.6	714.2	612.2	516.2	458.6	431.8
57.5°	654.0	726.7	780.1	804.4	772.6	694.9	593.9	507.8	438.5	390.1	376.7
60°	550.4	609.7	660.7	679.1	644.8	573.0	486.1	417.6	366.7	333.3	326.6
62.5°	454.4	502.8	542.9	557.1	523.7	467.7	392.6	341.6	305.7	289.0	280.6
65°	375.0	403.4	444.4	441.9	421.8	370.0	314.9	279.0	255.6	244.7	239.7
67.5°	294.8	320.7	346.6	350.0	324.9	289.0	253.1	227.2	214.7	208.8	206.3
70°	228.0	247.2	263.1	258.9	245.6	223.0	200.5	186.3	181.3	178.7	178.7
72.5°	177.1	187.1	194.6	189.6	181.3	169.6	158.7	152.9	153.7	155.4	157.0
75°	137.0	139.5	141.2	136.1	134.5	127.0	126.1	127.0	132.0	137.0	139.5
77.5°	105.2	101.9	99.4	94.4	95.2	94.4	98.6	105.2	112.8	120.3	127.0
80°	81.0	73.5	67.7	62.6	65.2	69.3	77.7	87.7	97.7	106.1	114.4
82.5°	62.6	51.8	43.4	38.4	43.4	50.1	61.0	73.5	85.2	94.4	103.6
85°	48.4	35.9	25.9	20.9	25.9	35.9	47.6	61.8	74.3	84.4	93.5
87.5°	37.6	25.9	14.2	8.4	14.2	25.1	38.4	51.8	64.3	76.0	85.2
90°	30.1	17.5	6.7	1.7	7.5	17.5	30.1	43.4	56.0	68.5	77.7
92.5°	24.2	12.5	3.3	0.0	4.2	13.4	25.1	37.6	50.1	61.8	71.0
95°	20.0	10.0	2.5	0.0	3.3	10.0	20.0	32.6	44.3	56.0	63.5
97.5°	16.7	7.5	1.7	0.0	1.7	8.4	16.7	27.6	39.3	50.1	57.6
100°	14.2	6.7	1.7	0.0	1.7	6.7	14.2	24.2	34.2	44.3	51.8
102.5°	11.7	5.0	0.8	0.8	0.8	5.0	12.5	20.9	30.1	39.3	46.8
105°	10.9	4.2	0.8	0.8	0.8	4.2	10.9	18.4	26.7	35.1	41.8
107.5°	9.2	3.3	0.8	0.8	0.8	3.3	9.2	15.9	24.2	31.7	37.6
110°	7.5	3.3	0.8	0.8	0.8	3.3	7.5	14.2	20.9	27.6	33.4



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-46HL-LC-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	6.7	2.5	0.8	0.8	0.8	2.5	6.7	12.5	18.4	25.1	30.1
115°	5.8	2.5	0.8	0.8	0.8	2.5	5.8	10.9	15.9	21.7	26.7
117.5°	5.0	2.5	0.8	0.8	0.8	1.7	5.0	9.2	14.2	19.2	24.2
120°	4.2	1.7	0.8	0.8	0.8	1.7	4.2	8.4	12.5	16.7	20.9
122.5°	4.2	1.7	0.8	0.8	0.8	1.7	3.3	6.7	10.9	14.2	18.4
125°	3.3	1.7	0.8	0.8	0.8	0.8	3.3	5.8	9.2	12.5	15.9
127.5°	3.3	1.7	0.8	0.8	0.8	0.8	2.5	5.0	7.5	10.9	14.2
130°	2.5	1.7	0.8	0.8	0.8	0.8	1.7	4.2	6.7	9.2	11.7
132.5°	2.5	1.7	0.8	0.8	0.8	0.8	1.7	3.3	5.0	7.5	10.0
135°	2.5	0.8	0.8	0.8	0.8	0.8	0.8	2.5	4.2	5.8	7.5
137.5°	1.7	0.8	0.8	0.8	0.8	0.8	0.8	1.7	3.3	4.2	6.7
140°	1.7	0.8	0.8	0.8	0.8	0.8	0.8	1.7	2.5	3.3	5.0
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	3.3
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: 2SNLED-LD5-46HL-LC-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1617.1	1617.1	1617.1	1617.1	1617.1	1617.1	1617.1	1617.1	1617.1	1617.1	1617.1
2.5°	1625.4	1606.2	1616.2	1612.9	1616.2	1624.6	1623.8	1621.3	1622.9	1618.7	1614.6
5°	1622.1	1602.9	1612.9	1608.7	1612.9	1621.3	1619.6	1617.1	1619.6	1614.6	1610.4
7.5°	1617.9	1600.4	1612.1	1611.2	1618.7	1629.6	1630.4	1630.4	1636.3	1628.8	1625.4
10°	1617.9	1608.7	1624.6	1630.4	1649.7	1663.8	1665.5	1668.9	1678.9	1677.2	1668.9
12.5°	1635.5	1633.8	1657.2	1671.4	1688.9	1709.0	1719.8	1723.2	1729.8	1724.8	1721.5
15°	1658.0	1666.4	1692.2	1708.1	1727.3	1742.4	1744.9	1746.5	1751.6	1744.0	1738.2
17.5°	1688.1	1693.1	1714.0	1720.6	1733.2	1735.7	1732.3	1724.0	1724.0	1707.3	1702.3
20°	1702.3	1699.8	1708.1	1697.3	1692.2	1677.2	1663.0	1647.1	1646.3	1628.8	1627.1
22.5°	1689.7	1673.0	1655.5	1628.8	1617.1	1595.4	1576.1	1567.0	1561.1	1538.6	1532.7
25°	1645.5	1604.5	1578.7	1546.9	1518.5	1493.5	1475.1	1455.9	1437.5	1419.1	1410.8
27.5°	1568.6	1530.2	1488.4	1444.2	1404.9	1366.5	1335.6	1316.4	1298.8	1274.6	1262.1
30°	1474.2	1420.8	1374.8	1332.2	1267.9	1221.2	1195.3	1156.8	1143.5	1132.6	1109.2
32.5°	1363.2	1298.8	1236.2	1178.6	1112.6	1069.1	1034.9	1006.5	998.1	969.7	963.1
35°	1240.4	1156.0	1085.0	1028.2	980.6	928.0	899.6	880.4	863.7	844.5	841.1
37.5°	1095.9	1019.9	939.7	889.6	852.0	806.9	785.1	771.8	764.3	750.1	747.6
40°	950.5	874.5	819.4	769.3	745.9	721.7	705.8	700.0	696.6	691.6	686.6
42.5°	818.6	751.7	712.5	679.1	669.0	657.4	653.2	656.5	653.2	651.5	650.7
45°	706.6	655.7	628.1	618.1	615.6	612.2	615.6	621.4	622.3	620.6	620.6
47.5°	604.7	580.5	568.8	570.5	574.7	577.2	583.0	590.5	592.2	588.0	589.7
50°	537.9	523.7	521.2	527.9	537.1	540.4	547.1	552.9	552.1	550.4	548.8
52.5°	475.3	471.1	477.8	484.5	494.5	496.1	498.7	501.2	500.3	497.0	495.3
55°	422.6	426.0	431.8	434.3	441.9	441.0	441.9	441.9	438.5	436.8	434.3
57.5°	375.0	375.9	379.2	380.0	384.2	382.6	381.7	380.0	375.0	374.2	371.7
60°	326.6	324.9	332.4	326.6	329.9	326.6	325.8	321.6	316.6	315.7	314.1
62.5°	280.6	277.3	282.3	279.8	281.5	278.1	276.5	271.5	267.3	266.4	265.6
65°	239.7	238.1	243.1	242.2	243.9	239.7	238.1	234.7	231.4	230.5	229.7
67.5°	205.5	209.7	212.2	212.2	213.8	213.0	208.8	208.0	207.1	203.8	203.8
70°	180.4	182.9	187.9	188.8	187.9	189.6	186.3	185.4	184.6	182.9	182.1
72.5°	160.4	163.7	168.7	169.6	168.7	168.7	167.1	166.2	166.2	163.7	163.7
75°	144.5	148.7	152.9	152.9	152.9	151.2	149.5	149.5	147.8	147.0	145.3
77.5°	131.1	136.1	139.5	138.7	137.8	136.1	136.1	133.6	131.1	131.1	129.5
80°	121.1	124.5	127.0	126.1	125.3	122.8	121.9	119.4	117.8	115.3	115.3
82.5°	110.3	114.4	116.1	115.3	113.6	111.1	110.3	108.6	106.9	106.1	104.4
85°	101.1	105.2	106.1	104.4	102.7	101.1	100.2	99.4	98.6	96.9	96.9
87.5°	91.9	96.1	96.1	95.2	93.5	92.7	91.9	91.0	90.2	89.4	88.5
90°	84.4	87.7	87.7	86.9	86.0	85.2	84.4	83.5	82.7	81.9	81.9
92.5°	76.8	80.2	80.2	79.4	78.5	77.7	77.7	76.8	76.0	75.2	74.3
95°	70.2	73.5	73.5	73.5	72.7	71.8	71.8	71.0	70.2	70.2	69.3
97.5°	63.5	66.8	66.8	66.8	66.0	65.2	65.2	64.3	64.3	64.3	63.5
100°	57.6	60.1	61.0	61.0	60.1	60.1	60.1	59.3	59.3	59.3	58.5
102.5°	51.8	54.3	56.0	56.0	56.0	55.1	55.1	55.1	55.1	55.1	54.3
105°	46.8	49.3	51.0	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8
107.5°	42.6	45.1	46.8	47.6	48.4	48.4	49.3	49.3	49.3	49.3	49.3
110°	38.4	40.9	43.4	44.3	45.1	45.9	45.9	46.8	45.9	45.9	45.9



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-46HL-LC-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	34.2	37.6	39.3	40.9	41.8	42.6	43.4	43.4	43.4	43.4	43.4
115°	30.9	34.2	35.9	37.6	39.3	40.1	40.1	40.9	40.9	40.9	40.1
117.5°	27.6	30.9	32.6	34.2	35.1	36.8	37.6	37.6	37.6	37.6	36.8
120°	25.1	27.6	29.2	30.9	32.6	33.4	34.2	34.2	34.2	34.2	34.2
122.5°	21.7	24.2	26.7	28.4	29.2	30.1	30.9	30.9	30.9	30.9	30.9
125°	19.2	21.7	23.4	25.1	25.9	27.6	27.6	27.6	27.6	27.6	27.6
127.5°	16.7	19.2	20.9	22.6	23.4	24.2	25.1	25.1	25.1	25.1	25.1
130°	14.2	16.7	18.4	20.0	20.9	21.7	21.7	22.6	22.6	22.6	22.6
132.5°	12.5	14.2	15.9	17.5	18.4	19.2	19.2	20.0	20.0	20.0	20.0
135°	10.0	12.5	13.4	15.0	15.9	16.7	16.7	17.5	17.5	17.5	17.5
137.5°	8.4	10.0	11.7	13.4	14.2	14.2	15.0	15.0	15.9	15.9	15.9
140°	6.7	7.5	10.0	10.9	11.7	12.5	13.4	13.4	13.4	13.4	13.4
142.5°	5.0	6.7	7.5	9.2	10.0	10.9	11.7	11.7	11.7	11.7	11.7
145°	4.2	5.0	5.8	7.5	8.4	9.2	10.0	10.0	10.0	10.0	10.0
147.5°	3.3	4.2	5.0	5.8	6.7	7.5	8.4	8.4	8.4	8.4	8.4
150°	2.5	3.3	4.2	4.2	5.0	5.8	6.7	7.5	7.5	7.5	7.5
152.5°	2.5	2.5	3.3	3.3	4.2	5.0	5.8	5.8	5.8	5.8	5.8
155°	1.7	2.5	2.5	2.5	3.3	3.3	4.2	5.0	5.0	5.0	5.0
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: 2SNLED-LD5-46HL-LC-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1617.1	1617.1	1617.1	1617.1	1617.1	1617.1	1617.1	1617.1	1617.1	1617.1	1617.1
2.5°	1617.1	1620.4	1618.7	1616.2	1615.4	1619.6	1615.4	1596.2	1603.7	1604.5	1610.4
5°	1614.6	1617.1	1615.4	1613.7	1611.2	1616.2	1611.2	1591.2	1598.7	1599.5	1605.4
7.5°	1631.3	1632.1	1632.1	1627.9	1621.3	1623.8	1617.1	1594.5	1598.7	1598.7	1602.9
10°	1673.0	1674.7	1677.2	1666.4	1658.0	1651.3	1642.1	1614.6	1613.7	1607.1	1607.1
12.5°	1727.3	1723.2	1719.0	1714.0	1707.3	1698.9	1685.6	1653.0	1642.1	1631.3	1620.4
15°	1743.2	1741.5	1740.7	1738.2	1734.0	1731.5	1721.5	1688.9	1673.0	1659.7	1640.5
17.5°	1701.4	1704.8	1715.6	1716.5	1721.5	1731.5	1729.8	1707.3	1693.1	1687.2	1663.8
20°	1626.3	1627.1	1640.5	1646.3	1668.0	1684.7	1697.3	1694.8	1691.4	1698.1	1680.6
22.5°	1536.1	1541.9	1556.1	1565.3	1586.2	1605.4	1625.4	1636.3	1653.8	1681.4	1678.0
25°	1413.3	1420.8	1440.8	1455.9	1485.1	1514.3	1541.1	1560.3	1581.2	1633.8	1651.3
27.5°	1266.3	1278.0	1303.9	1318.9	1359.8	1389.9	1428.3	1465.9	1495.1	1555.3	1591.2
30°	1111.7	1121.8	1149.3	1170.2	1205.3	1246.2	1294.7	1348.1	1396.6	1457.5	1502.6
32.5°	967.2	978.1	1000.6	1019.0	1058.3	1092.5	1146.0	1212.0	1257.1	1341.4	1401.6
35°	841.1	851.1	867.0	882.9	915.5	950.5	996.5	1060.8	1118.4	1206.1	1282.1
37.5°	752.6	754.2	763.4	772.6	796.8	823.6	859.5	916.3	969.7	1064.1	1147.7
40°	689.1	689.1	694.1	696.6	707.5	723.3	745.9	790.2	834.4	906.3	1008.2
42.5°	649.8	648.2	648.2	649.0	648.2	655.7	669.0	689.9	729.2	788.5	867.8
45°	620.6	617.3	614.8	608.9	605.6	605.6	606.4	613.9	636.5	674.9	739.2
47.5°	588.0	587.2	583.0	576.3	570.5	566.3	559.6	557.1	563.8	585.5	629.0
50°	550.4	546.3	542.1	537.1	530.4	526.2	513.7	514.5	508.7	518.7	541.3
52.5°	495.3	492.0	490.3	486.1	483.6	481.9	471.9	461.9	459.4	461.1	469.4
55°	434.3	436.0	429.3	432.7	431.8	424.3	420.1	412.6	410.1	409.3	413.5
57.5°	370.9	372.5	368.4	371.7	371.7	367.5	365.0	365.0	359.2	354.2	360.0
60°	313.2	309.9	312.4	316.6	316.6	314.1	312.4	312.4	308.2	306.5	310.7
62.5°	266.4	263.1	265.6	269.8	270.6	269.0	267.3	267.3	262.3	262.3	265.6
65°	230.5	231.4	230.5	233.9	233.9	234.7	233.0	231.4	225.5	228.0	227.2
67.5°	204.6	203.8	203.8	207.1	206.3	208.0	206.3	203.8	199.6	196.3	195.5
70°	182.9	182.1	182.1	183.8	184.6	184.6	183.8	182.1	176.2	172.9	170.4
72.5°	163.7	162.9	163.7	164.5	165.4	166.2	165.4	163.7	158.7	154.5	150.3
75°	146.2	145.3	147.8	147.8	148.7	148.7	149.5	148.7	144.5	139.5	134.5
77.5°	128.6	129.5	132.0	132.8	134.5	135.3	136.1	136.1	132.0	127.8	121.1
80°	114.4	116.1	117.8	118.6	120.3	122.8	123.6	124.5	121.1	116.9	109.4
82.5°	104.4	105.2	106.9	107.7	110.3	111.1	111.9	113.6	111.9	107.7	99.4
85°	96.1	96.9	98.6	98.6	100.2	101.9	102.7	103.6	102.7	98.6	90.2
87.5°	88.5	89.4	90.2	91.0	91.9	92.7	93.5	94.4	93.5	89.4	81.9
90°	81.9	81.9	82.7	82.7	83.5	84.4	86.0	86.0	85.2	81.9	74.3
92.5°	74.3	75.2	75.2	76.0	76.8	77.7	78.5	78.5	77.7	74.3	67.7
95°	69.3	69.3	70.2	70.2	71.0	71.0	71.8	71.8	71.0	67.7	61.0
97.5°	63.5	63.5	63.5	63.5	64.3	64.3	65.2	65.2	64.3	61.0	55.1
100°	58.5	58.5	58.5	58.5	58.5	59.3	59.3	59.3	58.5	55.1	49.3
102.5°	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	52.6	50.1	44.3
105°	51.8	51.8	51.8	51.0	51.0	51.0	50.1	50.1	47.6	45.1	40.1
107.5°	48.4	48.4	48.4	47.6	47.6	46.8	45.9	45.9	43.4	40.9	35.9
110°	45.9	45.9	45.9	45.1	44.3	43.4	42.6	41.8	39.3	35.9	31.7





TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-46HL-LC-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	43.4	43.4	42.6	42.6	41.8	40.9	39.3	38.4	35.9	32.6	28.4
115°	40.1	40.1	40.1	39.3	38.4	37.6	36.8	35.1	32.6	29.2	25.1
117.5°	36.8	36.8	36.8	35.9	35.1	34.2	33.4	31.7	29.2	25.9	22.6
120°	33.4	33.4	33.4	32.6	31.7	30.9	30.1	28.4	25.9	23.4	19.2
122.5°	30.9	30.9	30.1	29.2	28.4	27.6	26.7	25.1	23.4	20.0	16.7
125°	27.6	27.6	26.7	26.7	25.9	25.1	24.2	22.6	20.0	17.5	15.0
127.5°	25.1	24.2	24.2	24.2	23.4	22.6	20.9	20.0	17.5	15.0	12.5
130°	21.7	21.7	21.7	20.9	20.9	20.0	18.4	16.7	15.0	13.4	10.9
132.5°	19.2	19.2	19.2	19.2	18.4	17.5	15.9	15.0	13.4	10.9	9.2
135°	17.5	17.5	16.7	16.7	15.9	15.0	14.2	12.5	10.9	9.2	7.5
137.5°	15.0	15.0	15.0	14.2	14.2	13.4	11.7	10.9	10.0	8.4	6.7
140°	13.4	13.4	12.5	12.5	11.7	11.7	10.9	9.2	8.4	6.7	5.8
142.5°	11.7	11.7	10.9	10.9	10.0	10.0	9.2	8.4	6.7	5.8	4.2
145°	10.0	10.0	9.2	9.2	9.2	8.4	7.5	6.7	5.8	5.0	4.2
147.5°	8.4	8.4	8.4	7.5	7.5	6.7	6.7	5.8	5.0	4.2	3.3
150°	7.5	7.5	6.7	6.7	6.7	5.8	5.0	5.0	4.2	3.3	2.5
152.5°	5.8	5.8	5.8	5.8	5.0	5.0	4.2	4.2	3.3	2.5	2.5
155°	5.0	5.0	5.0	4.2	4.2	4.2	3.3	3.3	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: 2SNLED-LD5-46HL-LC-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1617.1	1617.1	1617.1	1617.1	1617.1	1617.1	1617.1
2.5°	1607.9	1607.1	1614.6	1613.7	1603.7	1618.7	1628.8
5°	1603.7	1602.9	1609.6	1611.2	1600.4	1616.2	1627.1
7.5°	1600.4	1599.5	1607.1	1609.6	1598.7	1612.9	1624.6
10°	1601.2	1597.0	1603.7	1605.4	1595.4	1610.4	1620.4
12.5°	1607.1	1597.0	1599.5	1599.5	1590.3	1603.7	1614.6
15°	1621.3	1600.4	1597.0	1594.5	1582.8	1595.4	1606.2
17.5°	1637.1	1608.7	1597.0	1588.7	1574.5	1585.3	1597.0
20°	1653.0	1617.9	1598.7	1585.3	1566.1	1576.1	1584.5
22.5°	1660.5	1626.3	1600.4	1580.3	1556.1	1561.1	1570.3
25°	1650.5	1622.9	1597.0	1572.8	1543.6	1544.4	1551.9
27.5°	1613.7	1606.2	1589.5	1565.3	1533.5	1529.4	1535.2
30°	1551.1	1572.0	1572.8	1555.3	1521.9	1513.5	1516.0
32.5°	1463.4	1510.2	1537.7	1534.4	1505.1	1493.5	1495.1
35°	1362.3	1420.8	1480.9	1501.0	1480.1	1470.9	1467.6
37.5°	1241.2	1319.7	1399.9	1449.2	1445.8	1440.0	1436.7
40°	1107.6	1201.9	1297.2	1375.7	1399.9	1399.9	1401.6
42.5°	964.7	1075.0	1179.4	1278.8	1335.6	1348.1	1353.1
45°	826.9	938.0	1051.6	1166.0	1242.0	1281.3	1295.5
47.5°	701.6	813.5	921.3	1046.6	1147.7	1198.6	1221.2
50°	594.7	678.2	791.8	916.3	1026.5	1089.2	1133.5
52.5°	506.2	571.3	670.7	786.8	897.9	983.9	1024.9
55°	431.8	476.1	560.5	660.7	766.8	856.1	903.8
57.5°	369.2	404.3	461.9	545.4	634.8	723.3	774.3
60°	314.1	338.3	377.5	443.5	519.5	595.5	644.8
62.5°	266.4	282.3	308.2	356.7	416.0	475.3	521.2
65°	229.7	236.4	250.6	280.6	325.8	370.9	410.1
67.5°	193.8	198.0	208.8	227.2	249.7	282.3	308.2
70°	167.1	167.1	167.9	178.7	190.4	211.3	229.7
72.5°	145.3	142.8	137.8	140.3	142.8	154.5	166.2
75°	127.8	121.9	113.6	110.3	108.6	110.3	116.9
77.5°	112.8	104.4	94.4	86.0	79.4	76.8	82.7
80°	100.2	90.2	78.5	67.7	56.8	51.0	53.5
82.5°	90.2	77.7	65.2	52.6	40.1	31.7	31.7
85°	79.4	67.7	54.3	40.9	28.4	17.5	15.9
87.5°	71.8	59.3	45.1	32.6	20.0	9.2	5.0
90°	64.3	51.8	38.4	25.9	14.2	4.2	0.0
92.5°	57.6	45.9	33.4	20.9	10.0	2.5	0.0
95°	51.8	40.9	28.4	17.5	8.4	1.7	0.8
97.5°	45.9	35.9	25.1	14.2	5.8	1.7	0.8
100°	41.8	31.7	21.7	11.7	5.0	0.8	0.8
102.5°	36.8	28.4	18.4	10.0	4.2	0.8	0.8
105°	32.6	25.1	15.9	8.4	3.3	0.8	0.8
107.5°	29.2	21.7	14.2	7.5	3.3	0.8	0.8
110°	25.9	19.2	12.5	6.7	2.5	0.8	0.8



TEST NUMBER: P#

CATALOG NUMBER: 2SNLED-LD5-46HL-LC-UNV-L935-CD1-U

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	23.4	16.7	10.9	5.8	1.7	0.8	0.8
115°	20.0	15.0	9.2	5.0	1.7	0.8	0.8
117.5°	17.5	12.5	8.4	4.2	1.7	0.8	0.8
120°	15.0	10.9	6.7	3.3	0.8	0.8	0.8
122.5°	13.4	9.2	5.8	3.3	0.8	0.8	0.8
125°	11.7	8.4	5.0	2.5	0.8	0.8	0.8
127.5°	10.0	6.7	4.2	1.7	0.8	0.8	0.8
130°	8.4	5.8	3.3	1.7	0.8	0.8	0.8
132.5°	6.7	5.0	3.3	1.7	0.8	0.8	0.8
135°	5.8	4.2	2.5	1.7	0.8	0.8	0.8
137.5°	5.0	3.3	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°	3.3	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)