

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P1213748

Luminaire Tested: 4SNLED-LD5-32SL-RW-UNV-L940-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213748
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33525)
Test Lab: INNOVATIONS CENTER-P3
Issue Date: 3/29/2018
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4SNLED-LD5-32SL-RW-UNV-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
WHITE REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

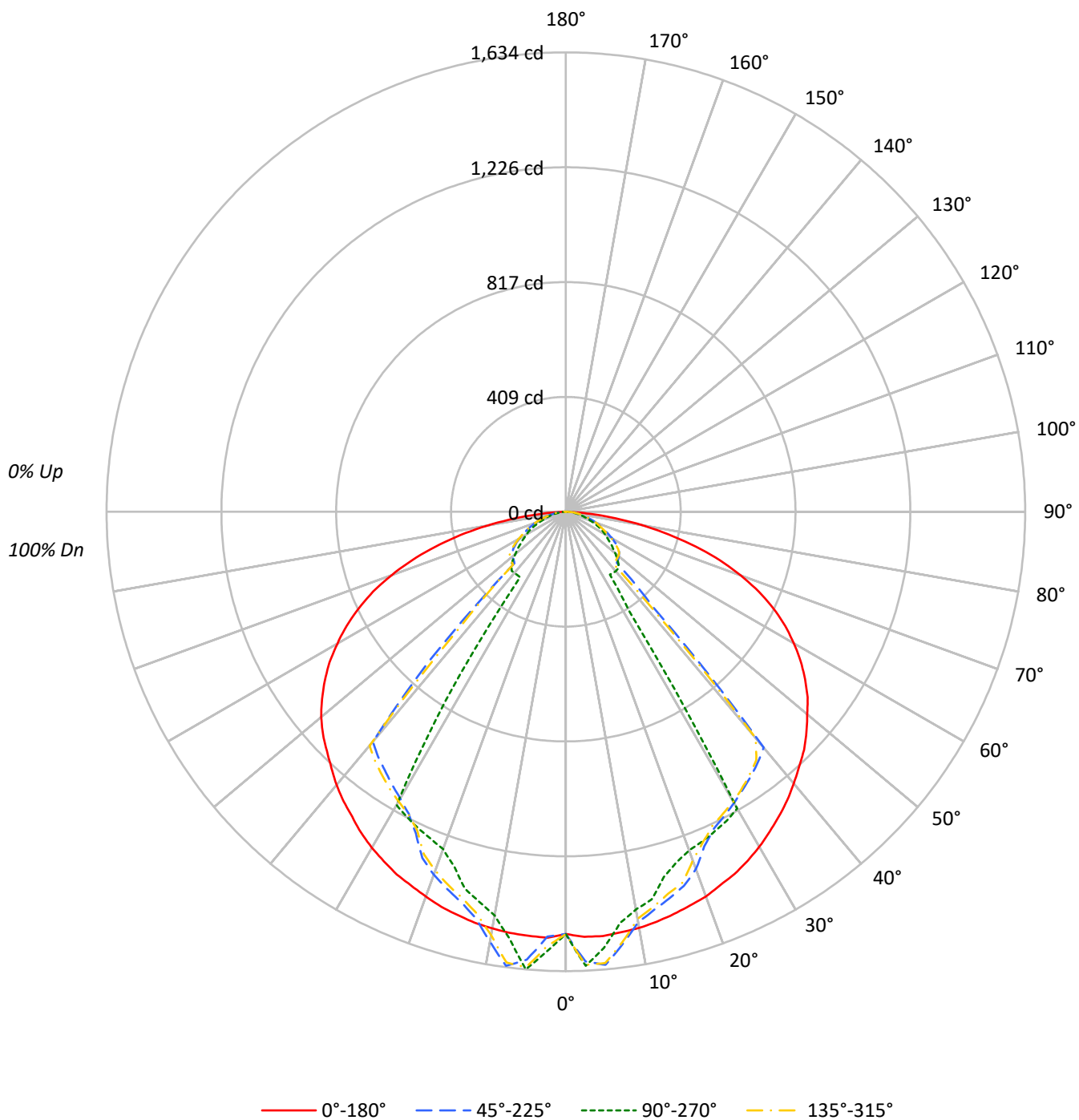
Lumens per Lamp: N/A
Luminaire Lumens: 3007.0 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 25
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: 24 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	106	102	99	108	104	101	98	100	97	94	96	94	92	92	91	89	87		
2	102	94	88	83	99	93	87	82	89	85	81	86	82	79	83	80	77	75		
3	94	84	77	72	91	83	76	71	80	74	70	77	73	69	75	71	67	65		
4	87	76	68	62	85	75	67	62	72	66	61	70	65	60	68	63	59	57		
5	81	69	61	55	79	68	60	55	66	59	54	64	58	53	62	57	53	51		
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47	46		
7	70	58	50	44	68	57	49	44	55	48	43	54	48	43	53	47	43	41		
8	66	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37		
9	62	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34		
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12134	12134	12134	12134
5°	12254	12226	12248	12831
10°	12266	11053	12283	11223
15°	12293	10227	12321	10552
20°	12382	9700	12382	9664
25°	12489	9515	12508	9426
30°	12616	9347	12647	9236
35°	12762	2129	12789	2220
40°	12967	2214	13045	2286
45°	13277	2202	13324	2282
50°	13588	1991	13771	2045
55°	14006	1767	14117	1792
60°	14360	1570	14392	1591
65°	14614	1371	14576	1349
70°	14405	1105	14361	1064
75°	13374	850	13469	814
80°	10855	604	11290	553
85°	5875	361	6203	277

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 357.5°

Vertical Angle: 60°

Luminance: 14715 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.7	4.9
10°-20°	406.2	13.5
20°-30°	601.7	20.0
30°-40°	606.2	20.2
40°-50°	473.6	15.7
50°-60°	365.8	12.2
60°-70°	245.6	8.2
70°-80°	125.3	4.2
80°-90°	34.9	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1155.6	38.4
0°-40°	1761.9	58.6
0°-60°	2601.3	86.5
0°-90°	3007.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3007.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1502	1502	1502	1502	1502	
5°	1515	1557	1514	1634	1515	144
15°	1482	1345	1485	1388	1482	419
25°	1421	1254	1423	1242	1421	656
35°	1322	272	1325	284	1322	828
45°	1198	265	1202	275	1198	924
55°	1038	193	1047	195	1038	927
65°	816	129	813	127	816	802
75°	478	65	482	63	478	500
85°	86	21	91	16	86	118
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6
2.5°	1513.3	1518.8	1523.0	1525.7	1527.1	1527.1	1527.8	1528.5	1537.4	1541.5	1544.3
5°	1514.7	1520.2	1528.5	1539.5	1549.1	1557.4	1564.2	1573.9	1583.5	1593.8	1597.3
7.5°	1508.5	1515.4	1531.9	1551.9	1570.4	1583.5	1592.5	1598.7	1603.5	1604.2	1607.6
10°	1503.0	1515.4	1538.1	1564.2	1587.6	1603.5	1603.5	1600.0	1604.8	1586.3	1567.7
12.5°	1493.4	1507.1	1538.1	1572.5	1594.5	1600.7	1598.0	1584.2	1556.0	1533.3	1523.0
15°	1481.7	1500.2	1538.8	1577.3	1595.9	1598.0	1571.8	1536.7	1515.4	1501.6	1484.4
17.5°	1468.6	1493.4	1539.5	1578.0	1584.9	1575.3	1525.7	1503.7	1481.7	1449.3	1425.9
20°	1456.2	1480.3	1534.0	1568.4	1572.5	1529.1	1490.6	1467.2	1430.0	1401.8	1391.5
22.5°	1436.9	1465.1	1529.1	1555.3	1539.5	1489.2	1452.1	1414.9	1381.2	1372.9	1360.5
25°	1421.1	1450.7	1518.1	1539.5	1497.5	1452.8	1409.4	1366.0	1350.2	1338.5	1327.5
27.5°	1399.8	1436.2	1503.7	1510.6	1452.8	1413.5	1350.2	1330.9	1316.5	1303.4	1298.6
30°	1376.4	1421.1	1483.7	1470.7	1415.6	1357.8	1311.0	1293.1	1282.8	1269.0	1263.5
32.5°	1349.5	1398.4	1461.7	1424.5	1375.7	1303.4	1273.1	1259.4	1245.6	1235.3	1200.9
35°	1322.0	1378.4	1435.6	1380.5	1327.5	1262.1	1235.3	1222.9	1209.8	1172.0	1136.2
37.5°	1293.8	1356.4	1403.9	1333.0	1263.5	1219.5	1196.8	1183.0	1153.4	1105.2	1087.3
40°	1261.4	1329.6	1363.3	1284.2	1207.8	1176.1	1154.8	1141.0	1074.3	1052.9	1047.4
42.5°	1229.1	1303.4	1313.7	1236.7	1161.7	1130.0	1112.1	1066.7	1021.3	1010.3	1012.3
45°	1198.1	1275.2	1259.4	1169.2	1113.5	1087.3	1057.1	994.4	970.3	975.8	977.2
47.5°	1161.0	1241.5	1202.3	1101.8	1063.9	1037.8	970.3	932.5	929.0	936.6	940.7
50°	1121.1	1203.6	1141.7	1040.5	1010.3	979.3	902.9	883.6	887.8	895.3	900.1
52.5°	1083.9	1161.0	1079.1	983.4	957.3	886.4	834.8	838.2	845.1	854.0	856.8
55°	1038.5	1109.4	1012.3	925.6	900.8	807.9	784.5	792.8	799.7	807.2	812.7
57.5°	991.0	1050.2	933.2	860.9	821.0	738.4	740.5	746.0	750.8	759.8	313.8
60°	936.6	982.7	846.5	801.0	721.9	683.4	685.4	695.1	699.9	390.9	216.1
62.5°	880.2	904.3	768.0	732.9	631.1	628.3	637.9	642.1	437.0	206.5	202.3
65°	815.5	810.7	690.9	635.2	569.1	571.9	582.2	561.6	193.4	193.4	192.0
67.5°	743.9	715.0	615.9	525.8	509.3	515.5	526.5	183.7	178.9	180.3	175.5
70°	662.0	621.4	538.2	445.3	450.8	457.0	177.6	166.5	164.5	161.0	151.4
72.5°	575.3	519.6	440.4	386.8	390.2	245.0	155.5	150.0	143.1	136.3	125.9
75°	478.3	406.0	323.4	323.4	328.3	139.7	135.6	126.6	119.1	110.1	103.9
77.5°	375.1	312.4	251.2	260.8	127.3	117.0	109.4	99.8	93.6	88.1	84.6
80°	274.6	218.2	189.3	169.3	99.1	88.8	81.2	75.7	72.9	69.5	65.4
82.5°	180.3	131.4	131.4	79.8	69.5	61.2	59.2	55.1	52.3	50.2	48.2
85°	86.0	76.4	57.8	48.9	43.4	39.2	37.9	35.8	35.8	35.1	34.4
87.5°	31.7	34.4	25.5	24.8	23.4	22.7	23.4	23.4	24.1	23.4	22.7
90°	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):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6
2.5°	1551.2	1556.7	1560.8	1567.7	1576.6	1584.2	1591.1	1600.7	1615.9	1620.0	1623.4
5°	1597.3	1599.3	1604.2	1609.7	1611.0	1614.5	1613.8	1617.9	1620.0	1624.8	1614.5
7.5°	1600.0	1589.0	1575.9	1564.2	1556.0	1548.4	1543.6	1551.2	1555.3	1558.7	1548.4
10°	1542.2	1529.1	1521.6	1514.7	1506.4	1494.7	1478.9	1482.3	1481.0	1481.0	1477.5
12.5°	1505.7	1487.2	1467.9	1450.7	1443.1	1442.4	1443.1	1450.7	1450.7	1450.0	1445.9
15°	1448.6	1430.7	1421.1	1417.0	1417.0	1414.9	1414.9	1423.2	1421.1	1421.1	1419.0
17.5°	1410.8	1398.4	1391.5	1386.7	1384.6	1388.1	1392.2	1395.6	1396.3	1393.6	1382.6
20°	1379.8	1368.1	1359.9	1361.2	1360.5	1362.6	1364.7	1353.0	1338.5	1319.2	1310.3
22.5°	1347.5	1338.5	1332.3	1332.3	1324.1	1311.0	1291.7	1287.6	1285.5	1276.6	1269.0
25°	1316.5	1306.2	1297.2	1269.7	1252.5	1254.6	1251.1	1244.2	1243.5	1242.9	1245.6
27.5°	1285.5	1258.7	1224.3	1220.2	1213.3	1212.6	1216.7	1220.2	1220.2	1222.9	1226.3
30°	1221.5	1190.6	1184.4	1176.8	1179.5	1189.2	1191.2	1196.1	1197.4	1202.3	1205.0
32.5°	1163.0	1149.3	1143.8	1147.2	1156.1	1164.4	1169.2	1171.3	1174.7	1178.9	1182.3
35°	1115.5	1111.4	1116.2	1123.8	1132.8	1139.6	1143.8	1147.9	1151.3	1154.8	1157.5
37.5°	1080.4	1083.2	1090.1	1099.7	1108.7	1114.2	1117.6	1122.4	1127.2	1131.4	1114.9
40°	1047.4	1054.3	1061.9	1072.2	1079.8	1085.3	1088.7	1094.9	1053.6	476.9	261.5
42.5°	1018.5	1026.1	1031.6	1039.8	1048.1	1052.2	1022.0	456.3	258.1	256.7	260.1
45°	983.4	989.6	998.6	1004.7	1012.3	664.8	253.9	256.7	252.6	255.3	256.7
47.5°	947.6	957.3	962.1	918.0	273.2	252.6	249.8	252.6	249.8	253.3	251.2
50°	907.0	918.7	653.8	247.1	245.0	243.6	246.4	245.0	247.1	249.8	244.3
52.5°	865.7	536.1	239.5	238.1	239.5	238.1	242.9	239.5	240.2	237.4	230.5
55°	293.2	231.9	229.9	229.2	233.3	233.3	233.3	227.8	224.3	217.5	212.6
57.5°	224.3	224.3	223.7	224.3	223.0	221.6	215.4	210.6	205.8	196.1	193.4
60°	212.6	212.6	212.6	212.6	206.5	203.7	194.1	189.9	181.7	176.9	174.1
62.5°	203.0	201.6	195.4	193.4	186.5	178.9	173.4	169.3	161.0	158.3	156.2
65°	189.3	184.4	176.9	168.6	165.2	156.9	154.2	148.0	143.8	141.8	140.4
67.5°	166.5	159.7	153.5	148.0	141.8	139.0	135.6	130.8	128.0	126.6	125.2
70°	142.5	137.6	131.4	128.0	123.9	121.8	117.0	115.6	113.6	111.5	109.4
72.5°	119.1	116.3	113.6	108.7	107.4	106.0	101.2	98.4	95.7	92.9	91.5
75°	99.8	97.7	96.3	92.2	90.2	86.0	82.6	80.5	78.5	76.4	75.0
77.5°	81.9	80.5	76.4	73.6	72.3	68.8	67.4	68.1	66.8	64.0	62.6
80°	64.0	62.6	59.2	59.2	57.8	56.4	55.1	53.7	52.3	50.2	48.9
82.5°	48.9	47.5	46.1	44.7	43.4	42.7	42.0	40.6	39.2	37.9	37.2
85°	34.4	33.7	33.0	32.3	31.7	31.0	30.3	28.9	27.5	26.8	26.2
87.5°	23.4	22.7	22.0	21.3	20.6	20.0	19.3	18.6	17.2	16.5	15.8
90°	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°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6
2.5°	1623.4	1626.9	1623.4	1615.9	1611.0	1609.0	1613.1	1613.1	1615.9	1619.3	1620.0
5°	1598.0	1589.7	1580.1	1570.4	1565.6	1562.9	1555.3	1556.7	1558.7	1560.1	1561.5
7.5°	1534.7	1523.6	1510.6	1498.2	1493.4	1489.2	1480.3	1480.3	1480.3	1481.0	1485.1
10°	1470.0	1465.1	1459.6	1451.4	1445.2	1443.1	1435.6	1437.6	1436.2	1438.3	1443.1
12.5°	1439.7	1434.2	1429.4	1421.1	1414.2	1411.5	1408.0	1410.1	1409.4	1412.8	1417.0
15°	1412.2	1409.4	1403.9	1397.7	1391.5	1386.0	1373.6	1369.5	1366.7	1363.3	1368.1
17.5°	1366.7	1347.5	1334.4	1324.8	1317.9	1313.1	1309.6	1309.6	1311.7	1313.7	1317.9
20°	1304.8	1299.3	1293.1	1282.8	1275.9	1273.1	1271.1	1271.1	1274.5	1277.3	1284.8
22.5°	1262.1	1261.4	1259.4	1254.6	1251.1	1251.1	1251.8	1253.2	1258.0	1262.1	1269.7
25°	1242.2	1244.9	1243.5	1240.8	1238.7	1239.4	1238.0	1239.4	1244.2	1248.4	1254.6
27.5°	1226.3	1230.5	1229.1	1225.0	1221.5	1222.9	1225.0	1223.6	1227.7	1232.5	1237.4
30°	1205.0	1205.7	1208.5	1203.6	1202.3	1204.3	1205.0	1206.4	1210.5	1214.0	1218.1
32.5°	1180.9	1186.4	1185.7	1180.9	1180.9	1183.0	1183.7	1137.6	1051.5	905.7	865.7
35°	1157.5	1163.7	1153.4	972.4	673.0	359.2	277.3	267.7	269.8	271.1	272.5
37.5°	856.1	406.0	258.8	260.8	262.9	265.0	267.0	269.1	271.1	273.2	273.9
40°	257.4	256.7	258.8	261.5	263.6	265.0	267.7	269.8	271.8	273.9	274.6
42.5°	254.6	256.0	258.1	260.8	263.6	266.3	268.4	271.1	272.5	273.9	274.6
45°	253.3	256.0	258.8	260.8	262.9	264.3	265.6	266.3	265.6	265.6	267.0
47.5°	251.2	253.9	254.6	253.9	254.6	253.9	253.9	253.9	251.9	251.2	251.2
50°	243.6	243.6	242.2	239.5	238.8	238.1	236.7	236.0	233.3	232.6	232.6
52.5°	227.8	227.1	225.0	221.6	220.2	218.8	218.2	217.5	214.7	213.3	214.0
55°	209.2	207.8	205.8	201.6	200.9	199.6	198.9	198.2	195.4	196.8	194.8
57.5°	192.0	189.3	186.5	185.8	183.1	182.4	181.7	181.0	178.9	179.6	178.2
60°	171.4	170.7	169.3	166.5	166.5	165.9	165.9	164.5	163.1	162.4	162.4
62.5°	156.2	154.2	152.8	152.8	150.7	150.7	150.7	149.3	148.0	148.6	148.0
65°	139.7	139.0	138.3	136.9	136.9	136.3	136.3	134.9	132.8	133.5	132.1
67.5°	125.9	124.6	123.2	122.5	119.7	118.4	117.7	117.0	114.2	114.9	113.6
70°	108.7	106.7	105.3	103.9	101.9	100.5	100.5	99.1	97.0	97.7	96.3
72.5°	90.8	89.5	88.1	87.4	85.3	84.6	84.0	83.3	81.2	81.9	81.2
75°	75.7	75.7	75.0	74.3	72.3	70.2	68.8	68.1	66.8	67.4	66.1
77.5°	62.6	61.2	59.9	59.9	57.8	56.4	55.1	55.1	55.1	54.4	53.7
80°	48.9	47.5	47.5	46.8	45.4	44.0	43.4	43.4	42.7	42.7	42.0
82.5°	37.2	35.8	35.1	35.1	33.7	33.0	32.3	31.7	31.7	31.7	31.0
85°	26.2	24.8	24.1	24.1	22.7	22.0	22.0	21.3	21.3	20.6	20.6
87.5°	15.8	15.1	14.5	14.5	13.1	12.4	12.4	12.4	11.7	11.7	11.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213748

CATALOG NUMBER: 4SNLED-LD5-32SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6
2.5°	1620.0	1620.0	1615.2	1616.5	1614.5	1617.2	1613.8	1613.8	1617.9	1617.9	1620.7
5°	1562.2	1558.7	1558.0	1556.7	1549.8	1552.5	1549.1	1545.7	1550.5	1550.5	1556.7
7.5°	1483.0	1476.8	1479.6	1475.5	1471.3	1465.1	1467.2	1464.5	1467.9	1472.7	1478.9
10°	1442.4	1436.9	1440.4	1436.2	1438.3	1429.4	1430.0	1430.7	1434.2	1435.6	1441.1
12.5°	1416.3	1414.9	1413.5	1412.2	1413.5	1408.7	1406.0	1406.6	1408.0	1408.7	1412.8
15°	1361.2	1352.3	1355.0	1345.4	1346.1	1346.8	1341.3	1346.8	1346.1	1355.0	1363.3
17.5°	1316.5	1316.5	1311.7	1307.6	1304.8	1304.1	1300.0	1302.7	1300.0	1305.5	1307.6
20°	1285.5	1284.8	1284.2	1282.1	1275.2	1275.9	1278.0	1271.8	1271.1	1270.4	1274.5
22.5°	1271.1	1271.8	1269.0	1269.0	1262.8	1264.2	1264.9	1258.0	1258.7	1256.6	1258.7
25°	1255.9	1257.3	1253.9	1253.9	1252.5	1251.8	1248.4	1249.7	1245.6	1242.2	1245.6
27.5°	1238.0	1240.8	1238.0	1239.4	1236.7	1235.3	1233.2	1231.9	1227.7	1227.0	1229.1
30°	1221.5	1222.9	1222.2	1218.8	1218.1	1214.0	1216.0	1211.9	1207.8	1208.5	1209.8
32.5°	626.2	598.0	461.1	416.4	412.2	427.4	506.5	616.6	799.0	975.8	1103.2
35°	273.2	273.2	273.2	272.5	272.5	271.8	271.1	270.5	269.8	269.1	268.4
37.5°	274.6	274.6	274.6	274.6	273.9	273.2	273.2	271.8	271.1	270.5	269.8
40°	275.3	276.0	276.0	276.0	275.3	275.3	274.6	273.2	272.5	271.1	269.8
42.5°	274.6	275.3	275.3	274.6	274.6	273.9	273.9	273.2	272.5	271.8	271.1
45°	265.6	266.3	265.0	265.0	264.3	264.3	264.3	264.3	264.3	265.0	265.0
47.5°	249.8	249.8	249.1	248.4	248.4	247.7	248.4	247.7	249.1	249.8	251.2
50°	231.2	231.2	229.9	229.2	229.2	229.2	229.2	229.9	230.5	231.9	233.3
52.5°	212.0	212.0	211.3	210.6	209.9	209.9	212.0	211.3	212.0	212.6	214.7
55°	193.4	194.1	192.7	192.7	192.0	192.0	192.0	192.7	193.4	194.1	196.1
57.5°	177.6	177.6	176.2	176.2	176.2	175.5	177.6	176.2	176.9	177.6	178.9
60°	161.7	161.0	161.0	160.3	160.3	160.3	161.7	161.0	161.0	161.7	163.1
62.5°	147.3	147.3	146.6	146.6	145.9	145.9	147.3	146.6	146.6	147.3	148.0
65°	130.8	130.8	130.1	129.4	131.4	129.4	131.4	130.1	131.4	132.1	133.5
67.5°	112.2	112.2	112.2	111.5	111.5	112.9	113.6	112.2	112.9	114.2	114.9
70°	95.7	95.7	95.0	95.0	95.0	96.3	97.0	95.7	96.3	97.0	98.4
72.5°	81.2	79.8	79.8	79.1	80.5	80.5	81.2	80.5	81.2	81.2	82.6
75°	66.8	65.4	65.4	65.4	66.8	66.1	66.8	66.1	66.8	66.8	67.4
77.5°	53.7	53.0	52.3	52.3	53.7	53.7	53.7	53.0	53.7	54.4	55.1
80°	42.0	41.3	40.6	40.6	42.0	42.0	42.0	42.7	42.0	42.7	43.4
82.5°	31.0	30.3	29.6	31.0	31.0	31.0	31.0	31.7	31.0	31.7	32.3
85°	20.6	20.0	19.3	20.6	20.6	20.6	20.6	21.3	20.6	21.3	22.0
87.5°	11.0	10.3	10.3	11.0	11.0	11.0	11.7	11.7	11.7	12.4	12.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213748

CATALOG NUMBER: 4SNLED-LD5-32SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6
2.5°	1624.8	1626.9	1626.2	1622.1	1617.9	1613.1	1609.7	1610.4	1617.2	1619.3	1613.1
5°	1556.7	1569.7	1569.7	1578.7	1573.9	1569.7	1572.5	1587.6	1595.2	1606.9	1611.0
7.5°	1486.5	1492.7	1492.0	1500.9	1499.6	1499.6	1501.6	1521.6	1531.2	1540.8	1543.6
10°	1447.3	1453.4	1452.8	1453.4	1451.4	1446.6	1446.6	1455.5	1463.8	1468.6	1470.0
12.5°	1419.0	1422.5	1421.8	1421.8	1420.4	1416.3	1415.6	1423.2	1432.1	1438.3	1439.0
15°	1377.1	1386.7	1388.8	1397.7	1395.6	1390.1	1391.5	1397.7	1403.2	1408.7	1406.6
17.5°	1314.4	1319.2	1319.9	1323.4	1322.0	1322.0	1330.3	1353.0	1368.1	1381.2	1382.6
20°	1278.6	1282.1	1280.7	1288.3	1284.8	1284.2	1286.2	1295.9	1302.7	1308.9	1319.9
22.5°	1261.4	1264.2	1262.1	1262.8	1256.6	1251.1	1249.7	1257.3	1264.9	1273.1	1273.1
25°	1247.0	1249.1	1248.4	1247.0	1242.2	1234.6	1233.2	1234.6	1237.4	1238.0	1233.2
27.5°	1229.8	1231.2	1231.2	1231.9	1225.7	1218.8	1217.4	1216.0	1218.8	1218.1	1210.5
30°	1211.9	1209.8	1210.5	1211.2	1205.7	1199.5	1196.8	1196.1	1198.8	1198.1	1190.6
32.5°	1169.2	1185.1	1186.4	1187.8	1183.0	1177.5	1174.7	1172.7	1174.0	1173.4	1166.5
35°	267.7	272.5	333.8	755.6	1026.1	1136.2	1147.9	1145.1	1145.8	1145.8	1140.3
37.5°	268.4	267.7	267.0	265.0	262.9	261.5	452.1	964.1	1116.9	1117.6	1112.8
40°	268.4	267.7	267.0	265.6	262.9	260.8	257.4	254.6	260.8	573.9	1050.2
42.5°	269.8	268.4	267.0	265.6	262.9	260.1	257.4	253.9	256.0	254.6	251.2
45°	265.6	265.0	265.0	264.3	262.9	260.1	256.7	252.6	250.5	252.6	249.1
47.5°	252.6	253.3	255.3	256.0	256.0	256.7	254.6	251.9	248.4	250.5	246.4
50°	234.7	236.0	236.7	240.2	241.6	244.3	245.0	245.0	244.3	247.1	244.3
52.5°	215.4	216.8	220.2	221.6	223.0	227.1	228.5	230.5	231.9	236.0	238.8
55°	196.8	197.5	198.9	201.6	203.7	207.1	209.2	211.3	214.7	216.8	225.0
57.5°	179.6	180.3	183.1	183.7	185.1	187.9	189.9	192.7	195.4	196.8	206.5
60°	163.1	163.8	165.9	166.5	167.2	170.0	172.0	174.1	176.2	177.6	184.4
62.5°	148.6	148.6	150.7	150.7	151.4	153.5	154.8	156.2	158.3	159.0	162.4
65°	134.2	134.9	136.3	136.3	136.9	138.3	139.0	139.7	141.8	141.8	144.5
67.5°	116.3	117.0	119.1	120.4	121.1	123.9	124.6	125.2	126.6	127.3	128.7
70°	99.1	99.8	101.9	102.5	103.2	105.3	106.7	108.7	110.8	112.9	114.2
72.5°	83.3	84.0	86.0	86.0	88.1	88.8	90.2	90.8	92.9	94.3	96.3
75°	68.1	68.8	70.9	70.9	72.9	73.6	74.3	75.0	76.4	77.8	79.1
77.5°	55.7	55.7	58.5	59.9	61.2	61.2	61.9	61.9	61.9	62.6	64.0
80°	44.0	44.0	46.1	47.5	48.9	48.9	49.5	50.2	50.9	50.9	51.6
82.5°	33.0	33.0	35.1	35.8	37.2	37.2	37.2	37.9	38.5	37.9	39.2
85°	22.7	22.7	24.1	24.8	26.2	26.2	26.2	26.8	27.5	26.8	27.5
87.5°	13.1	13.8	14.5	15.1	15.8	16.5	16.5	16.5	17.2	17.2	17.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213748

CATALOG NUMBER: 4SNLED-LD5-32SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6
2.5°	1606.2	1598.0	1597.3	1587.6	1584.9	1585.6	1578.0	1575.3	1562.9	1560.1	1547.0
5°	1612.4	1616.5	1614.5	1613.8	1615.9	1614.5	1609.0	1606.2	1604.2	1598.7	1587.6
7.5°	1544.3	1547.0	1549.1	1558.0	1565.6	1578.7	1592.5	1601.4	1608.3	1609.7	1600.7
10°	1474.8	1487.9	1496.8	1510.6	1521.6	1529.1	1537.4	1545.0	1564.9	1584.9	1596.6
12.5°	1439.0	1442.4	1441.7	1449.3	1456.9	1476.8	1496.1	1507.1	1522.3	1531.2	1552.5
15°	1408.7	1409.4	1411.5	1417.0	1421.1	1428.0	1436.9	1453.4	1483.7	1497.5	1509.2
17.5°	1381.2	1381.2	1382.6	1387.4	1392.9	1399.1	1404.6	1411.5	1426.6	1449.3	1478.2
20°	1337.1	1356.4	1358.5	1357.8	1360.5	1372.2	1373.6	1386.0	1393.6	1402.5	1430.7
22.5°	1271.8	1283.5	1300.0	1325.4	1335.1	1340.6	1344.7	1350.2	1361.9	1372.2	1383.9
25°	1236.0	1243.5	1248.4	1255.9	1275.9	1308.2	1314.4	1320.6	1328.2	1335.8	1350.2
27.5°	1204.3	1203.6	1207.1	1214.0	1219.5	1236.7	1266.9	1291.0	1292.4	1303.4	1315.8
30°	1181.6	1177.5	1172.7	1171.3	1178.9	1187.8	1196.8	1234.6	1260.8	1266.3	1279.3
32.5°	1160.3	1153.4	1146.5	1141.0	1136.2	1143.8	1149.3	1165.8	1199.5	1231.2	1238.0
35°	1134.1	1127.2	1119.0	1112.8	1105.2	1104.5	1103.8	1119.7	1130.7	1168.5	1201.6
37.5°	1107.3	1099.7	1092.8	1086.0	1078.4	1072.9	1069.4	1073.6	1083.9	1100.4	1155.5
40°	1079.1	1070.1	1063.2	1057.7	1047.4	1043.3	1036.4	1033.7	1034.3	1048.8	1077.7
42.5°	644.8	1028.1	1031.6	1025.4	1016.4	1010.9	1003.4	999.9	993.1	999.9	1016.4
45°	248.4	251.2	752.2	993.7	982.7	975.8	969.0	965.5	958.0	952.4	967.6
47.5°	243.6	246.4	240.9	341.3	938.0	940.1	931.8	928.4	920.8	916.7	912.5
50°	240.2	242.2	238.1	239.5	234.7	859.5	894.0	889.8	881.6	876.7	868.5
52.5°	236.7	236.7	234.0	230.5	229.2	229.9	723.3	850.6	841.0	836.1	825.1
55°	225.7	227.1	229.9	224.3	223.0	222.3	220.2	688.9	796.2	790.7	781.1
57.5°	209.2	212.0	219.5	218.2	218.2	212.6	211.3	211.3	639.3	744.6	735.0
60°	189.9	192.7	200.9	203.7	205.8	204.4	203.0	202.3	199.6	673.7	686.1
62.5°	170.0	172.7	175.5	184.4	187.2	190.6	194.8	192.7	189.9	189.9	634.5
65°	148.6	152.8	154.2	162.4	165.9	172.0	175.5	180.3	178.9	178.2	181.7
67.5°	130.1	134.9	135.6	139.0	145.2	148.0	152.1	161.0	165.2	166.5	167.9
70°	114.2	117.0	119.1	120.4	124.6	125.2	132.8	139.0	145.2	152.1	154.2
72.5°	98.4	100.5	104.6	103.2	104.6	107.4	111.5	115.6	121.8	131.4	137.6
75°	80.5	81.9	84.6	86.0	88.8	90.8	93.6	97.0	102.5	107.4	115.6
77.5°	64.7	65.4	67.4	68.1	70.9	72.9	77.8	79.8	83.3	86.7	91.5
80°	52.3	52.3	53.0	53.0	55.1	57.1	60.6	62.6	66.8	69.5	69.5
82.5°	39.9	39.9	42.0	42.0	43.4	43.4	45.4	45.4	47.5	48.9	50.2
85°	28.2	28.9	30.3	29.6	31.0	30.3	31.7	33.0	33.7	33.0	32.3
87.5°	18.6	18.6	20.0	19.3	20.0	20.0	21.3	21.3	22.0	22.0	21.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213748

CATALOG NUMBER: 4SNLED-LD5-32SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6
2.5°	1542.2	1531.9	1525.7	1518.1	1516.1	1514.0	1516.8	1516.8	1512.6	1509.2	1503.0
5°	1578.0	1567.0	1555.3	1542.9	1531.2	1518.8	1514.0	1513.3	1505.7	1501.6	1499.6
7.5°	1596.6	1591.1	1578.0	1560.8	1542.9	1520.9	1511.3	1505.7	1498.2	1496.8	1496.8
10°	1598.7	1592.5	1585.6	1573.2	1552.5	1523.6	1505.1	1494.0	1487.2	1492.0	1500.9
12.5°	1578.7	1590.4	1584.2	1575.9	1559.4	1524.3	1497.5	1481.0	1478.9	1491.3	1514.7
15°	1527.8	1562.2	1579.4	1571.1	1558.0	1523.0	1485.1	1465.8	1465.8	1491.3	1521.6
17.5°	1489.2	1516.1	1558.0	1564.9	1549.8	1520.2	1473.4	1450.7	1456.9	1494.0	1526.4
20°	1457.6	1474.1	1514.7	1553.2	1538.8	1514.0	1456.2	1432.8	1445.2	1489.9	1533.3
22.5°	1408.0	1441.1	1465.8	1523.0	1527.8	1502.3	1439.0	1410.8	1435.6	1489.9	1529.8
25°	1359.9	1399.8	1425.9	1481.7	1511.3	1487.9	1423.2	1387.4	1425.2	1487.9	1527.1
27.5°	1326.1	1344.7	1392.2	1432.1	1486.5	1468.6	1401.8	1361.9	1412.2	1476.8	1511.3
30°	1290.3	1302.7	1349.5	1387.4	1453.4	1446.6	1379.8	1333.7	1395.6	1466.5	1470.0
32.5°	1251.1	1264.9	1289.0	1344.0	1407.3	1425.9	1355.0	1305.5	1377.7	1450.7	1421.8
35°	1211.2	1221.5	1240.8	1300.0	1353.7	1394.9	1324.8	1273.1	1365.4	1426.6	1375.7
37.5°	1171.3	1182.3	1198.8	1248.4	1297.2	1366.0	1298.6	1240.8	1342.6	1383.9	1327.5
40°	1133.4	1139.6	1156.8	1187.8	1250.4	1336.5	1269.0	1207.1	1319.2	1329.6	1262.1
42.5°	1063.9	1094.9	1110.7	1135.5	1197.4	1295.9	1234.6	1171.3	1293.1	1275.2	1196.8
45°	988.9	1056.4	1063.2	1088.0	1150.6	1252.5	1202.3	1136.2	1268.3	1228.4	1134.8
47.5°	927.7	976.5	1016.4	1037.1	1094.9	1201.6	1172.0	1106.6	1231.2	1169.2	1074.3
50°	873.3	899.5	971.7	986.9	1028.1	1140.3	1136.2	1072.2	1179.5	1094.9	1015.1
52.5°	820.3	838.9	904.3	936.6	970.3	1074.3	1093.5	1038.5	1123.1	1020.6	955.2
55°	774.2	780.4	816.2	884.3	914.6	1007.5	1046.7	999.2	1051.5	949.7	897.4
57.5°	726.7	721.2	747.4	834.8	856.8	939.4	997.2	959.3	993.7	877.4	837.5
60°	677.2	669.6	680.6	738.4	795.5	871.9	938.7	915.3	923.5	805.9	770.8
62.5°	625.6	618.0	614.5	651.0	735.7	802.4	879.5	866.4	837.5	740.5	688.2
65°	571.9	564.3	558.8	573.3	669.6	712.3	813.4	810.0	743.2	671.7	579.5
67.5°	174.1	513.4	501.7	501.0	564.3	630.4	741.9	736.4	648.3	598.0	498.9
70°	156.9	416.4	442.5	436.3	463.8	547.1	660.0	655.8	556.1	479.7	441.1
72.5°	143.8	147.3	390.9	384.0	390.2	465.2	574.6	563.6	471.4	378.5	381.3
75°	123.2	129.4	134.9	324.1	315.9	385.4	481.7	464.5	388.8	312.4	318.6
77.5°	100.5	108.0	112.2	236.0	255.3	274.6	384.7	362.0	267.7	249.8	119.1
80°	75.0	81.2	88.1	94.3	194.1	192.0	285.6	262.9	186.5	155.5	92.9
82.5°	55.1	57.1	61.2	68.1	77.1	128.7	183.7	161.7	129.4	70.9	64.0
85°	34.4	37.2	39.2	41.3	46.8	77.1	90.8	72.3	54.4	43.4	40.6
87.5°	22.0	22.0	21.3	22.0	22.7	27.5	31.0	29.6	23.4	22.0	22.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213748

CATALOG NUMBER: 4SNLED-LD5-32SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6
2.5°	1496.1	1486.5	1486.5	1483.7	1485.8	1485.8	1485.1	1485.8	1490.6	1493.4	1498.2
5°	1495.4	1492.7	1498.9	1506.4	1515.4	1526.4	1529.1	1538.8	1547.7	1559.4	1571.8
7.5°	1504.4	1514.0	1525.7	1538.1	1556.0	1569.1	1580.8	1592.5	1600.7	1611.7	1618.6
10°	1517.4	1536.7	1556.7	1572.5	1591.8	1602.8	1610.4	1611.7	1600.0	1581.4	1566.3
12.5°	1536.0	1558.7	1577.3	1592.5	1601.4	1597.3	1575.3	1552.5	1539.5	1520.2	1493.4
15°	1551.9	1572.5	1591.8	1585.6	1561.5	1538.8	1521.6	1494.7	1468.6	1450.7	1439.0
17.5°	1558.7	1578.7	1571.8	1539.5	1516.8	1490.6	1455.5	1434.9	1417.7	1403.9	1397.0
20°	1562.9	1559.4	1522.3	1498.9	1454.8	1430.7	1408.0	1388.8	1375.7	1368.8	1367.4
22.5°	1551.9	1509.9	1478.2	1436.2	1403.9	1383.9	1366.0	1350.2	1341.3	1335.8	1332.3
25°	1515.4	1466.5	1419.7	1386.7	1359.2	1342.0	1328.2	1315.1	1304.1	1301.4	1294.5
27.5°	1464.5	1424.5	1362.6	1337.1	1313.1	1304.8	1289.7	1276.6	1266.9	1258.7	1236.7
30°	1422.5	1359.2	1314.4	1291.0	1276.6	1266.9	1249.7	1236.0	1219.5	1189.2	1176.8
32.5°	1370.9	1308.2	1265.6	1252.5	1234.6	1226.3	1207.1	1176.8	1151.3	1138.9	1138.3
35°	1304.1	1252.5	1221.5	1209.8	1195.4	1181.6	1141.7	1114.2	1101.8	1103.2	1113.5
37.5°	1248.4	1202.3	1182.3	1165.8	1149.3	1114.2	1080.4	1067.4	1070.8	1077.7	1082.5
40°	1191.9	1156.8	1134.1	1121.1	1083.9	1049.5	1031.6	1036.4	1042.6	1047.4	1053.6
42.5°	1136.9	1112.1	1089.4	1063.9	1013.0	994.4	998.6	1004.7	1010.3	1017.1	1023.3
45°	1084.6	1062.6	1036.4	978.6	953.1	958.0	964.1	969.0	977.2	982.0	988.2
47.5°	1035.0	1011.6	965.5	914.6	911.8	921.5	927.0	933.2	939.4	927.0	511.3
50°	979.3	955.2	885.0	865.7	871.9	880.9	887.8	894.0	796.2	316.6	243.6
52.5°	924.2	863.0	818.3	823.8	830.0	840.3	845.1	627.6	249.8	238.1	238.8
55°	863.0	784.5	771.5	778.3	783.8	794.2	526.5	230.5	229.2	228.5	234.0
57.5°	766.6	719.2	724.7	731.5	737.0	520.3	224.3	223.0	223.7	224.3	225.0
60°	680.6	670.3	676.5	682.7	483.1	216.8	212.6	213.3	216.1	214.0	208.5
62.5°	612.5	620.7	626.9	549.2	205.8	203.7	205.8	203.7	198.9	195.4	188.6
65°	560.2	568.4	573.3	193.4	192.7	195.4	193.4	186.5	178.9	169.3	167.2
67.5°	505.1	513.4	183.7	178.9	181.7	178.2	170.0	161.7	156.2	148.0	144.5
70°	448.0	192.0	166.5	165.9	161.0	155.5	146.6	138.3	131.4	128.0	124.6
72.5°	323.4	152.1	150.0	144.5	136.3	128.7	121.1	116.3	112.9	110.8	108.7
75°	134.9	132.1	125.9	116.3	108.0	104.6	99.1	95.7	94.3	90.2	88.8
77.5°	112.9	107.4	98.4	91.5	86.7	84.6	80.5	76.4	74.3	73.6	70.9
80°	86.7	79.1	75.0	71.6	70.2	65.4	60.6	58.5	57.1	56.4	54.4
82.5°	59.2	56.4	53.7	48.9	48.9	46.8	44.7	43.4	42.0	42.0	40.6
85°	38.5	36.5	35.8	33.7	33.7	32.3	31.7	31.0	30.3	29.6	28.9
87.5°	22.0	22.0	22.7	22.0	22.0	21.3	20.6	20.0	19.3	19.3	17.9
90°	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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CATALOG NUMBER: 4SNLED-LD5-32SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6
2.5°	1504.4	1511.3	1512.6	1536.0	1549.1	1548.4	1544.3	1556.7	1549.1	1545.0	1549.1
5°	1584.2	1592.5	1599.3	1624.8	1633.7	1637.9	1637.2	1644.1	1638.6	1633.7	1633.7
7.5°	1623.4	1626.2	1628.9	1622.7	1618.6	1611.7	1601.4	1586.3	1578.7	1570.4	1560.1
10°	1558.7	1549.8	1553.2	1540.8	1530.5	1523.0	1513.3	1500.9	1490.6	1483.0	1471.3
12.5°	1479.6	1478.9	1480.3	1482.3	1472.0	1465.8	1458.3	1449.3	1441.7	1433.5	1423.9
15°	1431.4	1432.1	1437.6	1435.6	1432.1	1428.7	1420.4	1417.7	1410.8	1401.8	1396.3
17.5°	1397.0	1400.5	1406.0	1403.2	1397.7	1394.3	1388.1	1381.9	1375.7	1368.8	1360.5
20°	1366.7	1370.2	1373.6	1370.2	1359.9	1355.0	1346.8	1327.5	1313.7	1300.0	1287.6
22.5°	1333.7	1335.8	1333.0	1322.0	1295.9	1283.5	1273.8	1268.3	1256.6	1249.1	1241.5
25°	1292.4	1280.7	1262.8	1250.4	1240.1	1234.6	1230.5	1229.8	1228.4	1227.0	1223.6
27.5°	1225.0	1220.8	1211.2	1206.4	1207.1	1209.1	1209.8	1211.9	1209.8	1207.1	1204.3
30°	1174.7	1176.8	1177.5	1178.9	1182.3	1184.4	1185.1	1187.8	1186.4	1184.4	1183.0
32.5°	1143.1	1147.9	1150.6	1154.8	1156.8	1160.3	1160.3	1164.4	1160.3	1159.6	1158.2
35°	1116.9	1121.1	1122.4	1128.6	1130.7	1134.1	1134.1	1137.6	1134.1	1099.0	867.8
37.5°	1090.8	1094.9	1097.7	1103.2	1103.8	1105.9	1020.6	746.7	481.7	373.0	284.9
40°	1059.8	1064.6	1067.4	1069.4	751.5	476.9	328.3	267.0	267.0	269.1	271.1
42.5°	1026.8	1030.2	717.8	417.7	260.1	259.4	261.5	263.6	265.6	268.4	271.1
45°	807.2	407.4	258.8	252.6	254.6	257.4	260.1	262.9	266.3	269.1	270.5
47.5°	265.0	248.4	251.9	249.1	252.6	256.0	258.8	261.5	262.2	262.9	262.2
50°	245.0	245.0	247.1	247.1	249.8	251.2	251.2	251.2	248.4	247.7	245.7
52.5°	236.7	242.2	239.5	240.9	239.5	237.4	235.4	233.3	229.2	227.8	225.0
55°	232.6	234.7	227.8	225.7	223.0	217.5	214.7	212.0	208.5	207.1	203.7
57.5°	223.0	218.2	210.6	207.1	202.3	196.8	194.1	192.0	188.6	187.2	185.1
60°	205.1	195.4	190.6	186.5	181.0	176.2	174.1	172.7	170.0	169.3	167.2
62.5°	183.1	174.8	170.7	165.2	161.0	158.3	156.2	155.5	152.8	152.8	151.4
65°	159.0	154.8	151.4	145.9	143.8	141.1	140.4	139.7	138.3	137.6	136.3
67.5°	139.7	136.9	132.1	129.4	128.0	125.9	124.6	123.2	120.4	119.1	117.0
70°	122.5	120.4	115.6	113.6	110.8	107.4	105.3	103.9	101.9	100.5	98.4
72.5°	106.0	99.8	96.3	94.3	92.2	88.8	88.1	86.7	84.6	84.0	81.9
75°	85.3	80.5	78.5	77.1	75.0	72.9	72.9	72.9	70.9	70.2	69.5
77.5°	68.1	65.4	64.0	62.6	61.9	60.6	58.5	57.8	55.7	55.7	55.1
80°	52.3	50.9	49.5	48.9	48.2	46.8	45.4	44.7	42.7	42.7	42.0
82.5°	38.5	37.9	37.2	36.5	35.8	35.1	33.0	32.3	31.0	31.0	30.3
85°	27.5	26.8	25.5	24.8	24.8	24.1	22.0	21.3	20.0	20.0	20.0
87.5°	17.2	16.5	15.8	15.1	14.5	13.8	12.4	11.7	11.7	10.3	9.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213748

CATALOG NUMBER: 4SNLED-LD5-32SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6
2.5°	1540.8	1552.5	1551.2	1559.4	1561.5	1565.6	1567.0	1567.7	1557.4	1565.6	1566.3
5°	1631.7	1633.7	1635.1	1638.6	1642.0	1642.7	1639.3	1635.1	1636.5	1633.7	1626.9
7.5°	1558.7	1548.4	1546.4	1543.6	1542.2	1540.8	1534.7	1540.2	1534.0	1531.2	1521.6
10°	1469.3	1459.6	1459.0	1459.0	1461.0	1460.3	1459.0	1456.2	1461.7	1458.3	1456.2
12.5°	1422.5	1419.0	1421.1	1419.7	1425.2	1426.6	1425.2	1425.2	1423.9	1421.1	1422.5
15°	1394.3	1391.5	1393.6	1391.5	1395.6	1396.3	1392.9	1394.9	1391.5	1388.1	1386.7
17.5°	1357.1	1350.9	1346.1	1339.2	1339.9	1338.5	1334.4	1334.4	1330.9	1322.0	1322.7
20°	1285.5	1279.3	1276.6	1276.6	1280.0	1281.4	1280.7	1282.1	1278.6	1277.3	1271.8
22.5°	1240.8	1240.1	1241.5	1244.9	1250.4	1258.0	1258.7	1258.7	1258.7	1258.0	1251.1
25°	1225.0	1225.0	1226.3	1231.2	1235.3	1240.8	1242.2	1243.5	1242.2	1242.2	1236.0
27.5°	1207.1	1205.7	1208.5	1213.3	1218.1	1222.2	1225.7	1226.3	1224.3	1224.3	1226.3
30°	1185.1	1184.4	1187.8	1192.6	1196.8	1200.9	1204.3	1207.1	1204.3	1204.3	1202.3
32.5°	1162.3	1162.3	1163.7	1134.8	1052.2	947.6	949.7	889.1	847.2	794.2	864.4
35°	725.3	527.8	453.5	384.0	335.1	303.5	302.8	292.5	287.7	284.2	283.5
37.5°	273.9	275.3	278.0	279.4	281.5	282.8	283.5	283.5	283.5	283.5	282.8
40°	273.2	276.0	278.0	280.1	282.2	283.5	283.5	284.2	284.9	284.9	284.9
42.5°	273.9	276.7	279.4	281.5	282.8	283.5	284.2	284.9	284.9	284.9	284.9
45°	273.2	274.6	274.6	275.3	275.3	275.3	276.0	276.0	275.3	274.6	276.0
47.5°	262.9	262.9	260.8	260.1	259.4	258.1	258.8	258.1	257.4	256.7	258.1
50°	245.0	242.2	240.9	239.5	238.8	237.4	238.1	237.4	236.7	235.4	237.4
52.5°	223.7	223.0	220.2	218.8	218.2	218.8	217.5	216.8	216.1	215.4	216.1
55°	203.0	200.3	199.6	198.2	197.5	198.2	197.5	196.8	196.1	195.4	196.1
57.5°	184.4	182.4	181.7	180.3	180.3	180.3	180.3	179.6	178.9	178.2	178.9
60°	166.5	165.2	164.5	164.5	163.8	163.8	163.8	163.1	162.4	162.4	163.1
62.5°	151.4	151.4	149.3	148.6	148.6	149.3	148.6	148.0	147.3	146.6	148.0
65°	135.6	132.8	132.1	130.8	129.4	130.1	129.4	128.7	128.0	127.3	128.7
67.5°	116.3	115.6	112.9	111.5	110.8	111.5	110.8	110.1	109.4	108.7	110.1
70°	97.7	97.7	95.0	94.3	93.6	93.6	92.9	92.9	92.2	91.5	92.9
72.5°	81.2	81.2	80.5	79.1	78.5	77.8	77.1	76.4	76.4	77.1	77.1
75°	67.4	66.1	63.3	64.0	63.3	62.6	62.6	61.9	61.2	62.6	61.9
77.5°	53.0	52.3	50.2	50.9	50.2	49.5	49.5	48.9	48.2	48.9	48.9
80°	39.9	39.9	39.2	38.5	38.5	37.9	37.2	37.2	36.5	37.2	37.2
82.5°	28.9	28.9	28.2	27.5	26.8	26.8	26.2	26.2	26.2	26.2	26.2
85°	18.6	17.9	17.9	16.5	16.5	16.5	15.8	15.8	15.8	15.8	15.8
87.5°	8.9	8.9	8.3	8.3	7.6	6.9	6.9	6.2	6.2	6.9	6.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213748

CATALOG NUMBER: 4SNLED-LD5-32SL-RW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6
2.5°	1553.9	1562.9	1555.3	1558.7	1559.4	1571.1	1570.4	1573.2	1568.4	1562.9	1555.3
5°	1633.1	1628.9	1623.4	1636.5	1629.6	1637.9	1640.6	1646.1	1646.1	1645.4	1639.3
7.5°	1531.9	1523.0	1529.8	1534.7	1536.7	1531.2	1542.2	1554.6	1564.9	1571.1	1571.8
10°	1452.8	1455.5	1454.8	1456.9	1461.7	1461.0	1467.9	1474.8	1477.5	1481.7	1483.0
12.5°	1415.6	1414.9	1416.3	1421.1	1423.9	1423.2	1430.0	1434.2	1435.6	1436.2	1435.6
15°	1386.0	1381.2	1384.6	1385.3	1387.4	1387.4	1395.6	1401.8	1404.6	1406.0	1404.6
17.5°	1330.3	1318.6	1329.6	1329.6	1337.1	1335.8	1348.8	1359.2	1364.7	1368.8	1368.8
20°	1275.2	1269.7	1273.8	1272.5	1278.0	1277.3	1285.5	1292.4	1297.2	1300.7	1304.8
22.5°	1253.2	1254.6	1248.4	1249.1	1249.1	1248.4	1252.5	1255.9	1257.3	1259.4	1258.0
25°	1238.7	1240.1	1238.0	1234.6	1233.2	1234.6	1236.7	1240.8	1241.5	1240.1	1235.3
27.5°	1224.3	1220.2	1223.6	1217.4	1216.0	1218.8	1221.5	1222.2	1222.9	1222.9	1218.8
30°	1202.3	1198.8	1202.3	1199.5	1196.8	1199.5	1201.6	1201.6	1202.9	1203.6	1198.8
32.5°	840.3	847.2	958.6	1026.1	1121.1	1169.2	1178.2	1178.2	1179.5	1179.5	1175.4
35°	286.3	287.0	310.4	336.5	392.3	461.1	551.2	598.0	756.3	945.6	1128.6
37.5°	282.8	282.2	281.5	280.8	280.1	279.4	278.0	277.3	281.5	333.8	452.8
40°	284.2	283.5	282.2	281.5	280.8	279.4	278.7	277.3	276.0	274.6	273.2
42.5°	284.2	283.5	282.8	282.2	281.5	280.8	279.4	278.0	276.7	274.6	272.5
45°	274.6	274.6	275.3	275.3	276.0	276.0	276.0	275.3	275.3	274.6	271.8
47.5°	256.7	256.7	258.8	258.8	260.1	261.5	261.5	262.9	265.0	266.3	267.0
50°	236.0	236.0	238.1	238.8	240.2	242.2	244.3	245.0	247.1	249.8	252.6
52.5°	215.4	215.4	217.5	217.5	218.8	220.9	223.0	223.7	226.4	229.2	232.6
55°	196.1	196.1	197.5	198.2	198.9	200.3	202.3	202.3	205.1	207.1	210.6
57.5°	178.9	180.3	180.3	180.3	181.0	182.4	183.7	183.7	185.8	187.9	190.6
60°	162.4	163.8	163.8	163.8	164.5	165.2	166.5	166.5	167.9	169.3	172.0
62.5°	147.3	148.6	148.6	149.3	149.3	150.0	151.4	150.7	152.1	152.8	154.8
65°	128.0	129.4	130.1	130.8	131.4	132.8	134.9	134.2	136.3	137.6	139.7
67.5°	109.4	110.8	110.8	111.5	112.2	113.6	114.9	114.9	117.0	118.4	121.1
70°	92.2	93.6	93.6	94.3	95.0	96.3	97.7	97.0	99.1	100.5	102.5
72.5°	76.4	77.8	77.8	78.5	78.5	79.8	81.2	82.6	82.6	84.0	85.3
75°	61.9	62.6	63.3	63.3	64.0	64.7	66.1	67.4	68.1	68.8	70.2
77.5°	48.9	49.5	50.2	50.2	50.9	51.6	52.3	55.1	56.4	57.1	57.1
80°	37.2	37.9	37.9	37.9	38.5	39.2	40.6	40.6	43.4	43.4	44.0
82.5°	26.2	26.8	26.8	26.8	27.5	28.9	29.6	30.3	31.7	32.3	32.3
85°	15.8	16.5	16.5	16.5	17.2	17.9	19.3	20.0	20.6	20.6	21.3
87.5°	6.2	6.9	7.6	7.6	8.3	8.9	9.6	10.3	11.0	11.0	11.7
90°	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):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6
2.5°	1547.0	1551.9	1547.0	1549.8	1553.2	1547.0	1532.6	1527.1	1525.0	1516.8	1511.3
5°	1633.1	1633.1	1631.0	1636.5	1635.8	1626.2	1611.0	1604.2	1597.3	1588.3	1581.4
7.5°	1571.8	1577.3	1580.8	1602.1	1615.9	1617.2	1626.9	1628.9	1631.7	1628.9	1624.8
10°	1483.7	1481.7	1491.3	1511.3	1523.0	1529.1	1547.7	1556.7	1564.2	1579.4	1595.2
12.5°	1434.2	1436.9	1441.1	1455.5	1466.5	1463.8	1471.3	1477.5	1486.5	1501.6	1524.3
15°	1401.1	1403.9	1408.0	1419.0	1425.9	1422.5	1426.6	1430.7	1436.9	1444.5	1458.3
17.5°	1365.4	1370.2	1375.0	1386.7	1392.9	1392.2	1395.6	1397.0	1399.1	1403.9	1413.5
20°	1309.6	1324.8	1334.4	1350.2	1359.2	1357.8	1364.0	1366.0	1368.8	1373.6	1377.7
22.5°	1258.7	1262.8	1267.6	1284.8	1300.0	1318.6	1322.7	1328.2	1335.1	1339.9	1344.0
25°	1229.8	1227.0	1229.1	1240.8	1249.1	1250.4	1256.6	1274.5	1293.1	1301.4	1311.0
27.5°	1212.6	1209.8	1209.1	1214.6	1216.0	1212.6	1211.2	1216.7	1230.5	1244.2	1273.1
30°	1194.0	1190.6	1187.8	1192.6	1194.7	1189.9	1180.9	1176.1	1184.4	1187.8	1199.5
32.5°	1172.0	1168.5	1167.2	1169.9	1171.3	1167.2	1157.5	1152.0	1150.6	1147.9	1150.6
35°	1147.2	1143.8	1141.7	1142.4	1145.1	1141.7	1133.4	1126.6	1123.1	1115.5	1110.0
37.5°	591.2	837.5	1087.3	1113.5	1116.2	1115.5	1107.3	1099.7	1096.3	1087.3	1084.6
40°	270.5	302.1	453.5	592.5	854.7	1086.0	1078.4	1070.8	1064.6	1061.9	1051.5
42.5°	269.8	270.5	271.1	267.7	331.7	565.0	834.1	1041.2	1037.1	1030.2	1022.6
45°	269.8	266.3	269.1	265.0	266.3	265.6	331.0	534.0	950.4	993.1	989.6
47.5°	267.0	265.0	267.7	264.3	260.1	262.2	259.4	262.9	410.2	695.8	953.1
50°	254.6	256.0	260.8	260.1	256.7	259.4	254.6	258.8	255.3	280.1	539.5
52.5°	236.0	238.8	243.6	247.7	249.1	252.6	251.2	252.6	249.8	250.5	251.2
55°	214.0	217.5	221.6	227.8	230.5	236.0	240.2	242.2	245.7	245.0	239.5
57.5°	193.4	196.8	200.3	206.5	212.6	215.4	223.0	227.1	236.0	234.0	232.6
60°	174.1	176.9	180.3	181.7	189.3	194.1	200.9	205.1	216.8	219.5	223.7
62.5°	156.9	158.3	161.0	163.1	167.9	172.7	176.2	183.1	189.3	198.2	204.4
65°	141.1	142.5	144.5	145.9	146.6	153.5	155.5	163.1	165.2	174.8	180.3
67.5°	123.2	125.9	128.7	130.1	131.4	135.6	136.9	140.4	145.2	149.3	156.2
70°	104.6	106.7	109.4	111.5	114.2	117.0	121.1	123.2	126.6	129.4	134.9
72.5°	87.4	89.5	90.8	92.9	95.0	97.0	100.5	105.3	108.0	112.9	114.2
75°	70.9	72.9	74.3	75.7	77.8	79.1	80.5	85.3	88.1	92.2	96.3
77.5°	58.5	58.5	59.9	64.0	63.3	63.3	64.7	67.4	69.5	72.3	76.4
80°	45.4	46.1	46.8	50.2	50.9	51.6	50.9	53.0	55.1	55.7	58.5
82.5°	33.7	34.4	34.4	36.5	38.5	38.5	38.5	39.2	41.3	42.0	43.4
85°	22.7	23.4	24.1	24.8	26.2	26.8	27.5	27.5	28.9	29.6	30.3
87.5°	12.4	13.8	14.5	15.1	15.8	16.5	17.2	17.9	18.6	19.3	20.0
90°	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):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6
2.5°	1509.2	1505.7	1503.7	1498.2	1496.8	1487.9	1489.2	1487.9	1487.9	1489.9	1496.8
5°	1573.9	1557.4	1553.2	1541.5	1531.9	1515.4	1505.1	1499.6	1491.3	1487.9	1492.7
7.5°	1617.9	1605.5	1595.2	1584.9	1571.1	1551.9	1537.4	1520.9	1507.1	1494.0	1490.6
10°	1610.4	1624.1	1624.1	1617.9	1604.8	1585.6	1568.4	1547.7	1523.6	1503.0	1490.6
12.5°	1546.4	1570.4	1589.7	1604.2	1617.2	1604.2	1587.0	1570.4	1543.6	1513.3	1490.6
15°	1476.2	1500.9	1525.0	1555.3	1587.0	1600.0	1599.3	1580.1	1556.0	1524.3	1492.7
17.5°	1426.6	1443.8	1456.9	1489.9	1528.5	1562.2	1584.9	1586.3	1562.9	1534.7	1493.4
20°	1389.4	1401.8	1412.8	1431.4	1465.1	1506.4	1548.4	1571.8	1567.7	1536.7	1495.4
22.5°	1355.7	1364.7	1373.6	1387.4	1414.2	1441.1	1489.9	1538.1	1558.7	1533.3	1493.4
25°	1322.0	1331.6	1338.5	1348.2	1369.5	1391.5	1425.9	1485.8	1531.9	1530.5	1489.2
27.5°	1282.1	1295.2	1303.4	1316.5	1330.9	1347.5	1370.9	1427.3	1493.4	1516.8	1478.2
30°	1233.9	1253.2	1265.6	1280.0	1292.4	1306.9	1325.4	1359.9	1441.7	1489.9	1466.5
32.5°	1164.4	1198.8	1226.3	1240.1	1253.9	1266.3	1282.8	1311.7	1378.4	1453.4	1453.4
35°	1114.9	1130.7	1155.5	1195.4	1212.6	1225.0	1240.1	1262.8	1305.5	1410.1	1432.1
37.5°	1076.3	1082.5	1094.9	1134.1	1166.5	1186.4	1201.6	1216.0	1258.0	1350.9	1404.6
40°	1047.4	1045.4	1044.0	1062.6	1108.7	1140.3	1157.5	1172.0	1204.3	1280.0	1368.1
42.5°	1013.7	1011.6	1004.7	1009.6	1032.3	1085.3	1111.4	1127.2	1154.1	1205.7	1328.2
45°	978.6	975.2	972.4	967.6	975.8	1005.4	1059.1	1082.5	1097.7	1143.8	1278.0
47.5°	942.8	938.0	934.6	930.4	925.6	939.4	990.3	1032.3	1058.4	1087.3	1217.4
50°	891.9	898.1	894.0	889.1	885.0	882.3	903.6	972.4	1004.7	1028.1	1143.8
52.5°	420.5	817.6	852.0	847.2	841.6	836.8	841.6	894.0	952.4	971.0	1055.0
55°	239.5	364.0	757.7	801.0	796.2	789.3	785.2	803.1	890.5	915.3	973.8
57.5°	230.5	231.2	334.5	721.9	748.7	742.6	737.7	741.9	816.2	858.2	902.9
60°	223.0	223.0	223.0	319.3	690.2	692.3	686.1	679.2	711.6	794.2	831.3
62.5°	206.5	210.6	212.6	212.6	315.2	639.3	633.1	631.1	632.4	717.1	759.8
65°	185.1	194.8	198.9	201.6	201.6	331.0	578.8	575.3	570.5	602.8	687.5
67.5°	161.7	171.4	180.3	185.8	186.5	192.7	345.5	518.2	511.3	512.0	610.4
70°	137.6	145.9	155.5	163.8	171.4	174.8	180.3	430.1	452.8	443.2	523.0
72.5°	119.1	122.5	129.4	137.6	146.6	154.8	159.7	171.4	393.0	382.6	397.8
75°	99.1	101.9	106.7	112.2	119.1	128.7	136.9	145.2	208.5	320.7	318.6
77.5°	77.1	81.9	87.4	90.8	94.3	101.2	112.2	120.4	128.7	216.8	255.3
80°	59.2	62.6	65.4	68.8	72.9	77.8	81.9	91.5	101.2	108.7	195.4
82.5°	44.0	46.1	48.2	49.5	50.9	53.7	61.2	64.7	70.9	77.8	92.2
85°	31.0	32.3	33.7	34.4	35.1	35.8	38.5	39.2	45.4	46.8	55.7
87.5°	20.0	20.6	22.0	22.7	22.7	23.4	24.1	24.1	24.1	22.7	27.5
90°	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):

	357.5°	360°
0°	1501.6	1501.6
2.5°	1502.3	1513.3
5°	1500.2	1514.7
7.5°	1494.7	1508.5
10°	1486.5	1503.0
12.5°	1477.5	1493.4
15°	1470.0	1481.7
17.5°	1461.7	1468.6
20°	1450.7	1456.2
22.5°	1439.7	1436.9
25°	1427.3	1421.1
27.5°	1411.5	1399.8
30°	1397.0	1376.4
32.5°	1383.3	1349.5
35°	1364.7	1322.0
37.5°	1345.4	1293.8
40°	1322.7	1261.4
42.5°	1298.6	1229.1
45°	1268.3	1198.1
47.5°	1241.5	1161.0
50°	1204.3	1121.1
52.5°	1158.9	1083.9
55°	1105.2	1038.5
57.5°	1047.4	991.0
60°	985.5	936.6
62.5°	910.5	880.2
65°	822.4	815.5
67.5°	707.5	743.9
70°	580.1	662.0
72.5°	485.2	575.3
75°	397.8	478.3
77.5°	315.2	375.1
80°	196.8	274.6
82.5°	132.1	180.3
85°	79.8	86.0
87.5°	31.0	31.7
90°	0.0	0.0

(END OF REPORT)