

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: NEO-RAY

Report Number: P1033020

Luminaire Tested: S124RDIW-B575D470UB2750-4F0-XX-W2A-A_2700K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1033020
REPORT IS A COMBINATION OF REPORTS P1000619 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIW-B575D470UB2750-4F0-XX-W2A-A_2700K
Description: Define 4 Regressed Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

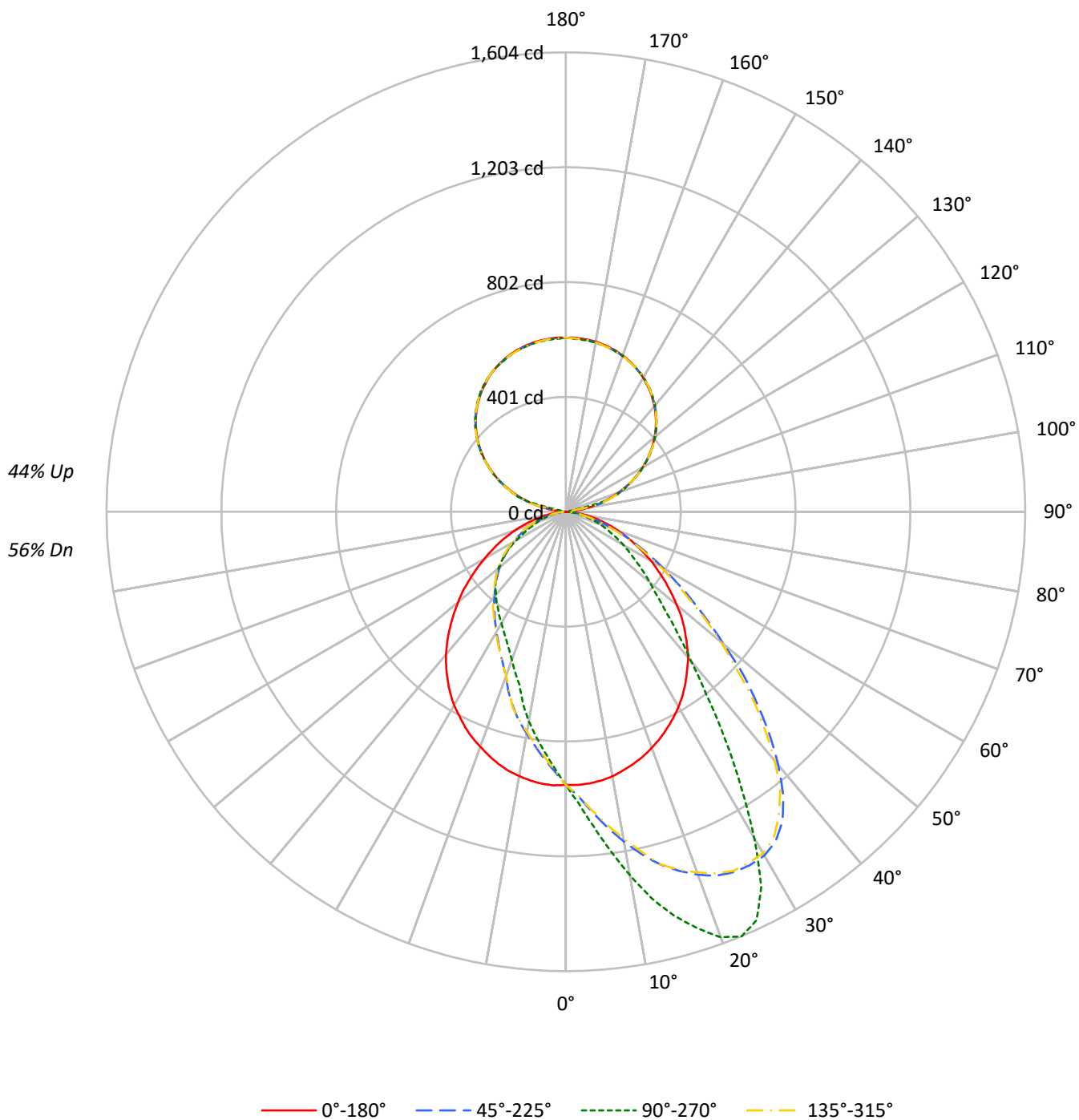
Lumens per Lamp: N/A
Luminaire Lumens: 4291.0 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 37.2
Input Voltage (V):
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				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62
1	100	96	92	88	93	89	86	83	77	75	72	66	64	63	55	54	53
2	91	84	78	73	85	78	73	69	68	64	61	58	56	53	49	47	46
3	84	74	67	61	77	69	63	58	60	56	52	52	48	45	44	42	39
4	77	66	58	52	71	62	55	50	54	49	44	47	43	39	40	37	34
5	71	59	51	45	65	55	48	43	49	43	39	42	38	34	36	33	30
6	65	53	45	40	60	50	43	38	44	38	34	38	34	30	33	29	27
7	60	48	40	35	56	45	38	33	40	34	30	35	30	27	30	27	24
8	56	44	36	31	52	41	34	30	37	31	27	32	27	24	28	24	22
9	52	40	33	28	49	38	31	27	34	28	24	29	25	22	26	22	20
10	49	37	30	25	46	35	28	24	31	26	22	27	23	20	24	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7774	7774	7774	7774
5°	7774	8784	7787	6714
10°	7733	10126	7726	5839
15°	7640	11397	7640	4889
20°	7544	12357	7505	4305
25°	7427	12409	7393	3888
30°	7302	10552	7245	3601
35°	7125	7962	7035	3388
40°	6928	5770	6793	3221
45°	6603	4385	6439	3073
50°	6217	3544	6047	2857
55°	5800	2935	5610	2569
60°	5381	2481	5140	2136
65°	4853	2022	4699	1698
70°	4370	1639	4165	1379
75°	3830	1181	3565	1011
80°	3159	782	2875	743
85°	2292	402	1899	402

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 35°

Vertical Angle: 45°

Luminance: 9732 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.3	2.2
10°-20°	278.8	6.5
20°-30°	436.7	10.2
30°-40°	484.9	11.3
40°-50°	429.7	10.0
50°-60°	334.9	7.8
60°-70°	219.1	5.1
70°-80°	107.5	2.5
80°-90°	27.4	0.6
90°-100°	20.2	0.5
100°-110°	132.8	3.1
110°-120°	253.6	5.9
120°-130°	321.9	7.5
130°-140°	344.4	8.0
140°-150°	322.0	7.5
150°-160°	259.7	6.1
160°-170°	167.5	3.9
170°-180°	57.7	1.3
0°-30°	807.8	18.8
0°-40°	1292.7	30.1
0°-60°	2057.3	47.9
0°-90°	2411.3	56.2
90°-120°	406.6	9.5
90°-150°	1394.9	32.5
90°-180°	1880.0	43.8
0°-180°	4291.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	953	953	953	953	953	
5°	952	1102	953	842	952	90
15°	911	1460	911	626	911	257
25°	835	1574	831	493	835	385
35°	728	970	719	412	728	455
45°	587	496	572	347	587	453
55°	422	296	409	259	422	378
65°	265	173	257	145	265	264
75°	133	80	124	68	133	141
85°	32	19	26	19	32	36
90°	1	14	1	14	1	3
95°	25	13	25	13	25	31
105°	137	130	137	130	137	143
115°	255	257	255	257	255	251
125°	359	362	359	362	359	321
135°	445	448	445	448	445	343
145°	513	516	513	516	513	321
155°	563	562	563	562	563	260
165°	594	591	594	591	594	168
175°	608	604	608	604	608	58
180°	608	608	608	608	608	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	953.4	953.4	953.4	953.4	953.4	953.4	953.4	953.4	953.4	953.4	953.4
2.5°	954.9	963.4	968.0	971.8	979.5	982.6	988.7	990.2	996.4	995.6	993.3
5°	951.8	966.4	977.2	988.7	1002.5	1010.2	1018.7	1031.0	1037.1	1045.6	1050.9
7.5°	946.5	966.4	984.1	1001.8	1024.0	1036.3	1047.1	1066.3	1082.4	1096.3	1111.6
10°	938.0	963.4	989.5	1013.3	1044.0	1058.6	1074.7	1103.2	1125.4	1144.7	1169.2
12.5°	924.9	960.3	989.5	1021.7	1060.9	1080.9	1102.4	1136.2	1162.3	1193.8	1224.6
15°	911.1	950.3	988.7	1031.0	1075.5	1098.6	1120.1	1165.4	1205.3	1241.5	1275.3
17.5°	895.8	938.8	981.0	1027.9	1081.7	1110.1	1135.4	1190.0	1233.8	1280.6	1314.4
20°	877.3	924.2	972.6	1024.8	1085.5	1117.0	1145.4	1207.6	1256.0	1306.8	1349.0
22.5°	857.3	908.0	961.0	1017.9	1080.9	1115.5	1148.5	1215.3	1271.4	1318.3	1375.1
25°	835.1	888.8	943.4	1003.3	1074.0	1111.6	1145.4	1211.5	1271.4	1332.9	1388.2
27.5°	812.0	867.3	924.2	987.2	1059.4	1096.3	1134.7	1198.4	1268.3	1335.2	1391.3
30°	786.7	840.4	900.4	960.3	1037.1	1074.0	1113.2	1182.3	1258.4	1325.2	1385.9
32.5°	759.0	814.3	871.2	933.4	1008.7	1048.6	1084.7	1163.1	1240.7	1306.8	1363.6
35°	728.3	780.5	834.3	898.1	972.6	1008.7	1051.7	1133.1	1211.5	1281.4	1318.3
37.5°	695.2	745.2	795.1	858.1	929.6	973.3	1015.6	1097.8	1180.8	1227.6	1246.8
40°	664.5	708.3	752.1	812.8	885.0	930.3	973.3	1058.6	1131.6	1167.7	1153.1
42.5°	625.3	670.7	709.8	765.9	838.9	881.2	924.9	1013.3	1072.4	1087.0	1050.9
45°	586.9	624.6	662.2	716.8	793.6	829.7	876.5	958.7	1007.9	994.9	941.8
47.5°	549.3	580.0	615.3	668.4	737.5	780.5	824.3	895.8	930.3	911.9	838.1
50°	504.7	535.5	572.3	618.4	685.3	726.7	761.3	827.4	853.5	808.2	719.1
52.5°	462.5	489.4	520.9	563.9	627.6	665.3	702.9	759.8	768.2	716.0	622.3
55°	422.5	444.0	477.1	511.6	570.0	610.0	636.1	684.5	682.2	616.9	536.2
57.5°	381.0	401.0	423.3	459.4	514.7	544.7	573.1	615.3	593.1	537.8	457.9
60°	344.2	355.7	378.0	412.5	459.4	485.5	507.8	530.8	511.6	451.7	390.3
62.5°	303.4	316.5	332.6	360.3	401.8	426.4	442.5	452.5	432.5	386.4	330.3
65°	265.0	276.6	293.5	318.0	349.5	368.0	376.4	383.3	372.6	320.3	275.8
67.5°	230.5	238.1	253.5	269.6	303.4	308.1	319.6	322.7	301.1	261.2	225.9
70°	195.9	203.6	210.5	229.7	245.1	253.5	255.8	255.8	234.3	208.2	179.0
72.5°	163.6	168.2	175.2	188.2	196.7	202.8	205.9	202.0	182.1	160.6	139.0
75°	132.9	135.2	141.4	149.8	156.7	154.4	153.6	149.0	134.4	119.1	106.8
77.5°	102.2	103.7	110.6	112.9	112.9	115.2	112.2	107.6	95.3	83.7	78.4
80°	76.8	79.1	79.9	81.4	79.9	79.9	77.6	69.9	63.8	58.4	54.5
82.5°	53.0	54.5	55.3	53.0	54.5	52.2	48.4	43.0	39.2	38.4	36.9
85°	31.5	32.3	31.5	31.5	29.2	28.4	25.4	24.6	23.0	23.0	22.3
87.5°	15.4	14.6	13.1	11.5	11.5	10.8	11.5	10.0	11.5	10.8	10.0
90°	1.4	2.5	3.6	4.7	5.8	6.4	6.8	7.6	8.4	9.2	10.0
92.5°	6.8	6.6	6.4	6.2	6.0	5.9	6.3	7.1	7.9	8.7	9.5
95°	25.0	21.6	18.1	14.7	11.2	9.5	9.6	9.7	9.8	9.9	10.0
97.5°	47.7	49.9	52.1	54.4	56.6	57.7	52.4	41.8	31.2	20.6	10.0
100°	74.5	76.3	78.1	80.0	81.8	82.7	75.7	61.8	47.9	33.9	20.0
102.5°	104.5	105.7	106.9	108.2	109.4	110.0	110.6	111.8	113.0	114.2	115.4
105°	136.8	137.4	138.0	138.6	139.2	139.5	139.8	140.3	140.8	141.3	141.8
107.5°	166.3	166.6	166.9	167.2	167.5	167.7	168.0	168.7	169.4	170.1	170.8
110°	196.3	196.6	196.9	197.2	197.5	197.6	197.9	198.5	199.2	199.8	200.4

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	225.4	226.0	226.6	227.2	227.8	228.1	228.2	228.4	228.6	228.8	229.0
115°	255.3	255.6	255.9	256.2	256.5	256.7	256.7	256.6	256.5	256.4	256.3
117.5°	282.2	282.6	283.0	283.4	283.8	284.0	284.1	284.4	284.7	285.0	285.3
120°	309.4	309.8	310.2	310.6	311.0	311.2	311.2	311.1	311.0	310.9	310.8
122.5°	334.9	335.1	335.3	335.5	335.7	335.8	335.9	336.1	336.3	336.5	336.7
125°	358.9	359.3	359.7	360.2	360.6	360.8	360.7	360.5	360.3	360.1	359.9
127.5°	382.1	382.2	382.3	382.4	382.5	382.6	382.8	383.3	383.8	384.3	384.8
130°	404.4	404.5	404.6	404.7	404.8	404.8	405.0	405.3	405.6	405.9	406.2
132.5°	424.8	425.0	425.2	425.4	425.6	425.7	425.9	426.3	426.8	427.2	427.6
135°	445.3	445.2	445.1	445.0	444.9	444.8	445.0	445.4	445.8	446.2	446.6
137.5°	463.4	463.4	463.4	463.4	463.4	463.4	463.7	464.2	464.7	465.2	465.7
140°	481.2	481.4	481.6	481.8	482.0	482.1	482.2	482.4	482.6	482.8	483.0
142.5°	497.1	497.5	497.9	498.3	498.7	498.9	498.9	499.0	499.1	499.2	499.3
145°	513.4	513.7	514.0	514.3	514.6	514.8	514.8	514.8	514.8	514.8	514.8
147.5°	526.1	526.7	527.3	528.0	528.6	528.9	528.8	528.7	528.6	528.5	528.4
150°	540.2	540.6	541.0	541.4	541.8	542.0	542.0	541.9	541.8	541.7	541.6
152.5°	552.0	552.3	552.6	552.9	553.2	553.4	553.3	553.1	552.9	552.7	552.5
155°	562.9	563.0	563.1	563.2	563.3	563.4	563.2	562.9	562.6	562.3	562.0
157.5°	572.5	572.5	572.5	572.5	572.5	572.5	572.3	571.9	571.5	571.1	570.7
160°	580.7	580.4	580.1	579.8	579.5	579.3	579.3	579.2	579.1	579.0	578.9
162.5°	587.9	587.5	587.1	586.7	586.3	586.1	586.1	586.0	585.9	585.8	585.7
165°	593.8	593.3	592.8	592.3	591.8	591.6	591.6	591.6	591.6	591.6	591.6
167.5°	598.8	598.3	597.8	597.3	596.8	596.6	596.5	596.4	596.3	596.2	596.1
170°	602.9	602.3	601.7	601.1	600.5	600.2	600.3	600.4	600.5	600.6	600.7
172.5°	605.7	605.1	604.5	603.8	603.2	602.9	603.0	603.1	603.2	603.3	603.4
175°	607.5	606.9	606.3	605.7	605.1	604.8	604.8	604.9	605.0	605.1	605.2
177.5°	608.8	608.1	607.4	606.7	606.0	605.7	605.8	606.0	606.2	606.4	606.6
180°	607.5	607.5	607.5	607.5	607.5	607.5	607.5	607.5	607.5	607.5	607.5

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	953.4	953.4	953.4	953.4	953.4	953.4	953.4	953.4	953.4	953.4	953.4
2.5°	999.5	1007.9	1008.7	1016.4	1014.1	1010.2	1017.1	1012.5	1021.7	1018.7	1022.5
5°	1057.8	1069.4	1079.4	1085.5	1096.3	1094.0	1105.5	1101.6	1110.1	1101.6	1112.4
7.5°	1126.2	1145.4	1155.4	1171.5	1176.2	1176.9	1190.7	1193.8	1199.2	1193.8	1200.0
10°	1193.1	1216.1	1239.1	1252.2	1260.7	1272.2	1284.5	1289.8	1293.7	1288.3	1292.2
12.5°	1253.7	1289.8	1315.2	1341.3	1347.5	1357.5	1370.5	1369.0	1384.3	1381.3	1388.2
15°	1309.8	1349.8	1380.5	1401.2	1418.1	1426.6	1451.2	1452.7	1451.9	1459.6	1455.0
17.5°	1359.8	1393.6	1437.3	1464.2	1485.0	1485.0	1498.8	1527.2	1524.9	1524.2	1528.8
20°	1400.5	1438.9	1479.6	1524.9	1541.8	1544.9	1564.1	1578.7	1581.0	1581.0	1581.0
22.5°	1431.2	1476.5	1520.3	1552.6	1565.6	1576.4	1593.3	1602.5	1605.6	1604.1	1605.6
25°	1446.6	1489.6	1534.1	1563.3	1571.0	1577.2	1578.7	1584.1	1583.3	1574.1	1579.5
27.5°	1449.6	1491.1	1520.3	1528.0	1524.2	1520.3	1495.7	1498.0	1491.1	1477.3	1482.7
30°	1435.8	1458.1	1457.3	1433.5	1426.6	1410.5	1388.2	1355.1	1328.3	1316.7	1320.6
32.5°	1385.9	1385.9	1358.2	1304.4	1280.6	1251.4	1211.5	1181.5	1146.2	1138.5	1153.1
35°	1316.7	1277.6	1226.9	1156.2	1120.1	1098.6	1029.4	1007.9	978.0	969.5	976.4
37.5°	1209.2	1143.9	1070.1	1004.1	973.3	934.9	874.2	843.5	822.0	807.4	814.3
40°	1088.6	1009.4	932.6	851.2	817.4	785.9	740.6	712.9	678.3	679.9	682.2
42.5°	973.3	880.4	794.3	719.1	686.8	660.7	629.2	595.4	583.1	579.2	575.4
45°	851.2	752.1	671.4	615.3	586.2	561.6	532.4	513.2	498.6	495.5	499.3
47.5°	736.0	652.2	575.4	523.2	499.3	487.1	464.0	446.3	437.1	429.4	434.0
50°	631.5	553.1	491.7	447.9	431.0	422.5	401.0	391.8	382.6	380.3	379.5
52.5°	545.4	478.6	425.6	390.3	377.2	372.6	356.5	343.4	335.7	338.0	339.6
55°	467.1	410.2	368.7	340.3	329.6	324.2	312.7	303.4	298.1	295.8	297.3
57.5°	397.9	348.8	318.8	295.8	287.3	285.0	272.7	269.6	265.8	263.5	263.5
60°	334.9	300.4	272.7	259.7	250.4	248.1	238.9	235.1	234.3	232.0	230.5
62.5°	281.9	253.5	234.3	220.5	216.6	215.9	209.7	205.1	202.8	201.3	201.3
65°	235.8	215.1	199.0	189.0	185.9	184.4	177.5	175.9	174.4	172.9	172.1
67.5°	196.7	178.2	166.7	159.8	155.9	156.7	152.9	149.8	149.8	149.0	148.3
70°	159.0	147.5	137.5	133.7	132.1	130.6	129.1	126.8	126.0	126.0	126.0
72.5°	125.2	117.5	112.2	109.9	108.3	106.8	105.2	105.2	105.2	104.5	104.5
75°	96.0	93.0	89.1	86.8	86.8	88.3	86.0	83.7	81.4	79.9	80.7
77.5°	72.2	70.7	68.4	64.5	65.3	63.8	63.8	62.2	63.0	63.0	61.5
80°	53.0	50.7	49.9	47.6	48.4	47.6	46.9	46.9	45.3	45.3	45.3
82.5°	36.9	34.6	34.6	33.8	33.0	33.0	32.3	32.3	33.0	31.5	31.5
85°	22.3	21.5	21.5	20.0	20.0	20.0	20.0	20.7	20.0	19.2	19.2
87.5°	10.0	10.8	10.0	9.2	9.2	9.2	8.5	8.5	7.7	8.5	8.5
90°	10.6	11.2	11.8	12.4	12.7	12.8	13.0	13.2	13.4	13.6	13.4
92.5°	10.1	10.7	11.4	12.0	12.3	12.3	12.3	12.3	12.3	12.3	12.3
95°	10.6	11.2	11.8	12.4	12.7	12.8	12.9	13.0	13.1	13.2	13.1
97.5°	10.5	11.0	11.5	12.0	12.3	12.3	12.4	12.5	12.6	12.7	12.6
100°	18.3	16.6	14.9	13.2	12.3	12.3	12.4	12.5	12.6	12.7	12.6
102.5°	92.7	70.0	47.3	24.6	13.2	13.2	13.2	13.2	13.2	13.2	13.2
105°	142.7	143.6	144.5	145.4	145.8	144.0	140.4	136.7	133.1	129.5	133.1
107.5°	171.3	171.8	172.3	172.8	173.1	173.3	173.7	174.1	174.5	174.9	174.5
110°	200.6	200.8	201.0	201.2	201.3	201.4	201.7	202.0	202.3	202.6	202.3

TEST NUMBER: P1033020

CATALOG NUMBER: S124RDIW-B575D470UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	228.9	228.8	228.7	228.6	228.5	228.7	229.1	229.6	230.0	230.4	230.0
115°	256.5	256.7	256.9	257.1	257.2	257.2	257.2	257.2	257.2	257.2	257.2
117.5°	285.2	285.1	285.0	284.9	284.9	284.9	284.9	284.9	284.9	284.9	284.9
120°	311.0	311.2	311.4	311.6	311.7	311.6	311.4	311.2	311.0	310.8	311.0
122.5°	336.8	336.9	337.0	337.1	337.1	337.0	336.8	336.6	336.4	336.2	336.4
125°	360.2	360.5	360.8	361.1	361.2	361.3	361.4	361.5	361.6	361.7	361.6
127.5°	384.7	384.6	384.5	384.4	384.4	384.3	384.2	384.1	384.0	383.9	384.0
130°	406.3	406.4	406.5	406.6	406.7	406.7	406.7	406.7	406.7	406.7	406.7
132.5°	427.7	427.8	427.9	428.0	428.0	428.0	427.9	427.8	427.7	427.6	427.7
135°	446.8	447.0	447.2	447.4	447.5	447.6	447.8	448.1	448.3	448.5	448.3
137.5°	465.9	466.1	466.3	466.5	466.6	466.6	466.5	466.4	466.3	466.2	466.3
140°	483.3	483.6	483.9	484.2	484.3	484.4	484.5	484.6	484.7	484.8	484.7
142.5°	499.5	499.7	499.9	500.1	500.2	500.2	500.2	500.2	500.2	500.2	500.2
145°	514.9	515.0	515.1	515.2	515.2	515.3	515.5	515.8	516.0	516.2	516.0
147.5°	528.5	528.6	528.7	528.8	528.9	528.9	529.0	529.1	529.2	529.3	529.2
150°	541.6	541.6	541.6	541.6	541.6	541.6	541.7	541.8	541.9	542.0	541.9
152.5°	552.7	552.9	553.1	553.3	553.4	553.4	553.3	553.2	553.1	553.0	553.1
155°	562.4	562.8	563.3	563.7	563.9	563.7	563.4	563.1	562.8	562.5	562.8
157.5°	571.2	571.7	572.2	572.7	572.9	572.7	572.2	571.7	571.2	570.7	571.2
160°	579.5	580.1	580.7	581.3	581.6	581.3	580.7	580.1	579.5	578.9	579.5
162.5°	586.3	586.9	587.5	588.1	588.4	588.0	587.3	586.6	585.9	585.2	585.9
165°	592.4	593.2	594.0	594.8	595.2	594.7	593.8	592.9	592.0	591.1	592.0
167.5°	597.0	597.9	598.8	599.7	600.2	599.7	598.7	597.7	596.7	595.7	596.7
170°	601.5	602.3	603.1	603.9	604.3	603.8	602.8	601.8	600.8	599.8	600.8
172.5°	604.2	605.0	605.8	606.6	607.0	606.4	605.3	604.2	603.1	602.0	603.1
175°	606.1	607.0	607.9	608.8	609.3	608.7	607.5	606.2	605.0	603.8	605.0
177.5°	607.4	608.2	609.0	609.8	610.2	609.6	608.4	607.2	606.0	604.8	606.0
180°	607.5	607.5	607.5	607.5	607.5	607.5	607.5	607.5	607.5	607.5	607.5

TEST NUMBER: P1033020

CATALOG NUMBER: S124RDIW-B575D470UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	953.4	953.4	953.4	953.4	953.4	953.4	953.4	953.4	953.4	953.4	953.4
2.5°	1024.8	1019.4	1018.7	1018.7	1010.2	1014.8	1005.6	995.6	991.0	991.0	982.6
5°	1110.1	1104.7	1099.3	1090.9	1090.9	1086.3	1071.7	1057.1	1046.3	1037.1	1027.1
7.5°	1197.7	1192.3	1176.9	1168.5	1173.1	1163.9	1144.7	1120.1	1101.6	1087.0	1066.3
10°	1292.9	1278.3	1270.6	1266.0	1249.9	1239.9	1217.6	1181.5	1158.5	1139.3	1112.4
12.5°	1370.5	1375.1	1345.9	1348.2	1332.1	1318.3	1283.7	1249.1	1214.6	1187.7	1147.7
15°	1454.2	1440.4	1422.8	1408.9	1403.5	1386.6	1357.5	1311.4	1273.7	1231.5	1186.1
17.5°	1520.3	1509.6	1492.7	1479.6	1468.1	1427.4	1402.8	1362.1	1310.6	1269.1	1213.8
20°	1576.4	1566.4	1542.6	1534.1	1513.4	1484.2	1448.9	1385.9	1339.8	1294.5	1240.7
22.5°	1600.2	1590.2	1569.5	1558.7	1545.7	1517.2	1483.4	1423.5	1366.7	1309.8	1253.0
25°	1580.2	1580.2	1570.3	1566.4	1554.9	1529.5	1495.0	1444.3	1383.6	1322.1	1254.5
27.5°	1483.4	1502.6	1509.6	1513.4	1513.4	1514.2	1490.4	1441.2	1382.0	1322.1	1251.4
30°	1343.6	1375.9	1404.3	1412.8	1427.4	1443.5	1453.5	1429.7	1376.7	1313.7	1243.0
32.5°	1167.7	1209.2	1262.2	1275.3	1295.2	1343.6	1370.5	1380.5	1351.3	1296.0	1220.7
35°	992.5	1044.8	1077.1	1117.0	1135.4	1206.9	1266.8	1302.9	1296.0	1263.0	1194.6
37.5°	839.7	869.6	908.8	951.1	987.9	1056.3	1130.8	1200.7	1229.2	1213.0	1161.6
40°	692.9	728.3	775.1	809.7	835.1	903.4	995.6	1071.7	1133.9	1143.9	1112.4
42.5°	589.2	624.6	653.0	690.6	710.6	776.7	858.1	953.4	1027.1	1066.3	1052.5
45°	509.3	530.8	553.9	575.4	600.0	658.4	733.7	838.1	921.1	976.4	981.8
47.5°	439.4	458.6	478.6	498.6	512.4	557.7	626.9	712.1	802.8	878.8	908.8
50°	390.3	399.5	414.1	425.6	441.7	480.9	536.2	610.0	706.0	788.2	827.4
52.5°	341.9	353.4	364.9	374.9	385.6	413.3	464.0	527.8	610.7	695.2	743.6
55°	301.1	310.4	321.1	328.0	334.2	358.8	397.2	446.3	517.8	597.7	657.6
57.5°	268.1	272.0	281.2	285.0	291.9	311.9	339.6	383.3	441.0	518.6	567.7
60°	232.0	239.7	246.6	249.7	255.1	268.9	288.1	328.8	378.7	435.6	491.7
62.5°	202.8	205.9	211.3	215.1	218.9	233.5	249.7	280.4	318.0	365.7	417.1
65°	175.9	177.5	180.5	185.9	188.2	199.0	208.2	230.5	265.8	301.9	353.4
67.5°	148.3	149.8	153.6	156.7	159.0	165.9	175.9	192.1	211.3	251.2	279.6
70°	126.8	126.8	129.1	130.6	132.9	136.0	141.4	153.6	171.3	196.7	222.8
72.5°	106.0	106.0	106.0	108.3	108.3	110.6	113.7	122.1	134.4	154.4	171.3
75°	82.2	83.0	84.5	84.5	85.3	88.3	90.7	93.0	99.1	112.2	127.5
77.5°	62.2	63.8	64.5	63.0	64.5	64.5	67.6	70.7	73.7	77.6	89.1
80°	46.1	46.9	45.3	46.1	46.1	47.6	49.2	48.4	49.9	54.5	57.6
82.5°	30.7	31.5	31.5	31.5	31.5	33.8	33.8	33.0	33.8	34.6	35.3
85°	19.2	18.4	18.4	19.2	18.4	18.4	19.2	20.0	19.2	20.0	20.7
87.5°	8.5	8.5	8.5	8.5	7.7	7.7	8.5	7.7	8.5	7.7	6.9
90°	13.2	13.0	12.8	12.7	12.4	11.8	11.2	10.6	10.0	9.2	8.4
92.5°	12.3	12.3	12.3	12.3	12.0	11.4	10.7	10.1	9.5	8.7	7.9
95°	13.0	12.9	12.8	12.7	12.4	11.8	11.2	10.6	10.0	9.9	9.8
97.5°	12.5	12.4	12.3	12.3	12.0	11.5	11.0	10.5	10.0	20.6	31.2
100°	12.5	12.4	12.3	12.3	13.2	14.9	16.6	18.3	20.0	33.9	47.9
102.5°	13.2	13.2	13.2	13.2	24.6	47.3	70.0	92.7	115.4	114.2	113.0
105°	136.7	140.4	144.0	145.8	145.4	144.5	143.6	142.7	141.8	141.3	140.8
107.5°	174.1	173.7	173.3	173.1	172.8	172.3	171.8	171.3	170.8	170.1	169.4
110°	202.0	201.7	201.4	201.3	201.2	201.0	200.8	200.6	200.4	199.8	199.2



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CATALOG NUMBER: S124RDIW-B575D470UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	229.6	229.1	228.7	228.5	228.6	228.7	228.8	228.9	229.0	228.8	228.6
115°	257.2	257.2	257.2	257.2	257.1	256.9	256.7	256.5	256.3	256.4	256.5
117.5°	284.9	284.9	284.9	284.9	284.9	285.0	285.1	285.2	285.3	285.0	284.7
120°	311.2	311.4	311.6	311.7	311.6	311.4	311.2	311.0	310.8	310.9	311.0
122.5°	336.6	336.8	337.0	337.1	337.1	337.0	336.9	336.8	336.7	336.5	336.3
125°	361.5	361.4	361.3	361.2	361.1	360.8	360.5	360.2	359.9	360.1	360.3
127.5°	384.1	384.2	384.3	384.4	384.4	384.5	384.6	384.7	384.8	384.3	383.8
130°	406.7	406.7	406.7	406.7	406.6	406.5	406.4	406.3	406.2	405.9	405.6
132.5°	427.8	427.9	428.0	428.0	428.0	427.9	427.8	427.7	427.6	427.2	426.8
135°	448.1	447.8	447.6	447.5	447.4	447.2	447.0	446.8	446.6	446.2	445.8
137.5°	466.4	466.5	466.6	466.6	466.5	466.3	466.1	465.9	465.7	465.2	464.7
140°	484.6	484.5	484.4	484.3	484.2	483.9	483.6	483.3	483.0	482.8	482.6
142.5°	500.2	500.2	500.2	500.2	500.1	499.9	499.7	499.5	499.3	499.2	499.1
145°	515.8	515.5	515.3	515.2	515.2	515.1	515.0	514.9	514.8	514.8	514.8
147.5°	529.1	529.0	528.9	528.9	528.8	528.7	528.6	528.5	528.4	528.5	528.6
150°	541.8	541.7	541.6	541.6	541.6	541.6	541.6	541.6	541.6	541.7	541.8
152.5°	553.2	553.3	553.4	553.4	553.3	553.1	552.9	552.7	552.5	552.7	552.9
155°	563.1	563.4	563.7	563.9	563.7	563.3	562.8	562.4	562.0	562.3	562.6
157.5°	571.7	572.2	572.7	572.9	572.7	572.2	571.7	571.2	570.7	571.1	571.5
160°	580.1	580.7	581.3	581.6	581.3	580.7	580.1	579.5	578.9	579.0	579.1
162.5°	586.6	587.3	588.0	588.4	588.1	587.5	586.9	586.3	585.7	585.8	585.9
165°	592.9	593.8	594.7	595.2	594.8	594.0	593.2	592.4	591.6	591.6	591.6
167.5°	597.7	598.7	599.7	600.2	599.7	598.8	597.9	597.0	596.1	596.2	596.3
170°	601.8	602.8	603.8	604.3	603.9	603.1	602.3	601.5	600.7	600.6	600.5
172.5°	604.2	605.3	606.4	607.0	606.6	605.8	605.0	604.2	603.4	603.3	603.2
175°	606.2	607.5	608.7	609.3	608.8	607.9	607.0	606.1	605.2	605.1	605.0
177.5°	607.2	608.4	609.6	610.2	609.8	609.0	608.2	607.4	606.6	606.4	606.2
180°	607.5	607.5	607.5	607.5	607.5	607.5	607.5	607.5	607.5	607.5	607.5

TEST NUMBER: P1033020

CATALOG NUMBER: S124RDIW-B575D470UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	953.4	953.4	953.4	953.4	953.4	953.4	953.4	953.4	953.4	953.4	953.4
2.5°	978.0	974.1	971.8	971.0	964.1	960.3	958.0	956.4	954.1	948.0	942.6
5°	1014.8	1004.1	998.7	992.5	981.8	969.5	959.5	953.4	945.7	933.4	921.9
7.5°	1049.4	1033.3	1022.5	1014.1	995.6	975.6	959.5	946.5	931.9	915.0	898.8
10°	1085.5	1059.4	1045.6	1032.5	1005.6	979.5	956.4	937.2	916.5	894.2	876.5
12.5°	1113.9	1079.4	1064.0	1045.6	1012.5	981.8	952.6	926.5	899.6	875.8	850.4
15°	1147.0	1103.9	1086.3	1062.5	1017.1	977.2	939.5	911.1	883.5	848.1	821.2
17.5°	1166.2	1116.2	1090.9	1070.1	1021.0	972.6	928.8	893.4	861.2	825.8	797.4
20°	1185.4	1128.5	1100.1	1070.9	1012.5	961.0	915.0	872.7	838.9	800.5	771.3
22.5°	1191.5	1125.4	1095.5	1068.6	1007.1	949.5	896.5	853.5	814.3	775.9	742.9
25°	1191.5	1124.7	1089.3	1054.8	990.2	931.1	878.1	831.2	787.4	749.0	716.0
27.5°	1179.2	1109.3	1072.4	1040.9	974.1	910.3	855.8	804.3	762.1	723.7	686.0
30°	1163.9	1087.0	1050.2	1012.5	948.0	887.3	828.1	780.5	736.0	692.2	658.4
32.5°	1144.7	1063.2	1022.5	984.1	915.7	852.7	798.2	751.3	709.1	663.7	626.1
35°	1117.0	1027.9	982.6	948.8	882.7	817.4	765.2	719.1	678.3	631.5	590.8
37.5°	1081.7	995.6	949.5	908.0	839.7	779.7	730.6	686.0	646.1	603.1	557.7
40°	1040.2	950.3	910.3	866.6	794.3	737.5	691.4	651.5	611.5	570.8	527.0
42.5°	993.3	904.2	859.6	817.4	748.3	692.2	649.1	613.0	576.2	538.5	491.7
45°	937.2	853.5	810.5	770.5	703.7	646.1	606.9	572.3	540.8	502.4	460.9
47.5°	874.2	801.3	757.5	714.4	649.1	599.2	560.8	531.6	504.7	466.3	428.7
50°	812.8	740.6	705.2	661.4	601.5	554.7	515.5	490.9	470.2	432.5	398.7
52.5°	735.2	680.6	646.8	609.2	551.6	504.0	473.2	451.7	427.1	397.9	368.0
55°	666.8	616.1	589.2	553.9	497.0	454.8	428.7	408.7	389.5	363.4	339.6
57.5°	589.2	557.7	530.8	500.1	444.0	407.9	384.9	368.0	350.3	328.8	309.6
60°	507.8	493.2	467.1	442.5	394.9	363.4	344.2	328.8	311.9	294.2	278.1
62.5°	435.6	427.1	411.8	392.6	348.0	321.1	301.9	290.4	278.1	262.0	246.6
65°	367.2	363.4	348.8	334.9	304.2	280.4	263.5	256.6	242.8	230.5	216.6
67.5°	306.5	301.9	293.5	287.3	261.2	238.9	230.5	221.2	209.7	200.5	189.0
70°	245.1	244.3	238.9	231.2	217.4	201.3	192.8	186.7	175.2	168.2	159.8
72.5°	190.5	194.4	189.8	186.7	177.5	165.9	158.3	154.4	145.2	139.8	133.7
75°	142.1	145.2	147.5	142.1	139.8	134.4	127.5	123.7	119.1	111.4	109.1
77.5°	96.8	103.7	103.7	105.2	106.0	102.9	97.6	94.5	89.1	87.6	84.5
80°	63.8	69.9	70.7	72.2	74.5	74.5	70.7	69.9	64.5	63.8	61.5
82.5°	36.9	42.3	45.3	47.6	46.9	49.9	46.9	46.1	43.0	43.0	41.5
85°	20.0	20.7	22.3	23.8	25.4	26.9	26.9	26.1	25.4	24.6	23.0
87.5°	7.7	7.7	8.5	7.7	8.5	10.0	10.8	10.8	10.0	9.2	7.7
90°	7.6	6.8	6.4	5.8	4.7	3.6	2.5	1.4	2.5	3.6	4.7
92.5°	7.1	6.3	5.9	6.0	6.2	6.4	6.6	6.8	6.6	6.4	6.2
95°	9.7	9.6	9.5	11.2	14.7	18.1	21.6	25.0	21.6	18.1	14.7
97.5°	41.8	52.4	57.7	56.6	54.4	52.1	49.9	47.7	49.9	52.1	54.4
100°	61.8	75.7	82.7	81.8	80.0	78.1	76.3	74.5	76.3	78.1	80.0
102.5°	111.8	110.6	110.0	109.4	108.2	106.9	105.7	104.5	105.7	106.9	108.2
105°	140.3	139.8	139.5	139.2	138.6	138.0	137.4	136.8	137.4	138.0	138.6
107.5°	168.7	168.0	167.7	167.5	167.2	166.9	166.6	166.3	166.6	166.9	167.2
110°	198.5	197.9	197.6	197.5	197.2	196.9	196.6	196.3	196.6	196.9	197.2

TEST NUMBER: P1033020

CATALOG NUMBER: S124RDIW-B575D470UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	228.4	228.2	228.1	227.8	227.2	226.6	226.0	225.4	226.0	226.6	227.2
115°	256.6	256.7	256.7	256.5	256.2	255.9	255.6	255.3	255.6	255.9	256.2
117.5°	284.4	284.1	284.0	283.8	283.4	283.0	282.6	282.2	282.6	283.0	283.4
120°	311.1	311.2	311.2	311.0	310.6	310.2	309.8	309.4	309.8	310.2	310.6
122.5°	336.1	335.9	335.8	335.7	335.5	335.3	335.1	334.9	335.1	335.3	335.5
125°	360.5	360.7	360.8	360.6	360.2	359.7	359.3	358.9	359.3	359.7	360.2
127.5°	383.3	382.8	382.6	382.5	382.4	382.3	382.2	382.1	382.2	382.3	382.4
130°	405.3	405.0	404.8	404.8	404.7	404.6	404.5	404.4	404.5	404.6	404.7
132.5°	426.3	425.9	425.7	425.6	425.4	425.2	425.0	424.8	425.0	425.2	425.4
135°	445.4	445.0	444.8	444.9	445.0	445.1	445.2	445.3	445.2	445.1	445.0
137.5°	464.2	463.7	463.4	463.4	463.4	463.4	463.4	463.4	463.4	463.4	463.4
140°	482.4	482.2	482.1	482.0	481.8	481.6	481.4	481.2	481.4	481.6	481.8
142.5°	499.0	498.9	498.9	498.7	498.3	497.9	497.5	497.1	497.5	497.9	498.3
145°	514.8	514.8	514.8	514.6	514.3	514.0	513.7	513.4	513.7	514.0	514.3
147.5°	528.7	528.8	528.9	528.6	528.0	527.3	526.7	526.1	526.7	527.3	528.0
150°	541.9	542.0	542.0	541.8	541.4	541.0	540.6	540.2	540.6	541.0	541.4
152.5°	553.1	553.3	553.4	553.2	552.9	552.6	552.3	552.0	552.3	552.6	552.9
155°	562.9	563.2	563.4	563.3	563.2	563.1	563.0	562.9	563.0	563.1	563.2
157.5°	571.9	572.3	572.5	572.5	572.5	572.5	572.5	572.5	572.5	572.5	572.5
160°	579.2	579.3	579.3	579.5	579.8	580.1	580.4	580.7	580.4	580.1	579.8
162.5°	586.0	586.1	586.1	586.3	586.7	587.1	587.5	587.9	587.5	587.1	586.7
165°	591.6	591.6	591.6	591.8	592.3	592.8	593.3	593.8	593.3	592.8	592.3
167.5°	596.4	596.5	596.6	596.8	597.3	597.8	598.3	598.8	598.3	597.8	597.3
170°	600.4	600.3	600.2	600.5	601.1	601.7	602.3	602.9	602.3	601.7	601.1
172.5°	603.1	603.0	602.9	603.2	603.8	604.5	605.1	605.7	605.1	604.5	603.8
175°	604.9	604.8	604.8	605.1	605.7	606.3	606.9	607.5	606.9	606.3	605.7
177.5°	606.0	605.8	605.7	606.0	606.7	607.4	608.1	608.8	608.1	607.4	606.7
180°	607.5	607.5	607.5	607.5	607.5	607.5	607.5	607.5	607.5	607.5	607.5

TEST NUMBER: P1033020

CATALOG NUMBER: S124RDIW-B575D470UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	953.4	953.4	953.4	953.4	953.4	953.4	953.4	953.4	953.4	953.4	953.4
2.5°	938.0	936.5	934.9	928.8	923.4	914.2	906.5	903.4	902.7	903.4	901.1
5°	911.1	910.3	905.0	894.2	884.2	873.5	865.8	858.1	853.5	853.5	848.1
7.5°	885.8	880.4	875.8	861.9	850.4	835.8	824.3	817.4	813.6	805.1	805.1
10°	858.9	851.2	845.0	832.0	815.1	800.5	785.9	777.4	770.5	764.4	762.1
12.5°	832.0	825.8	814.3	800.5	783.6	765.2	749.8	743.6	727.5	714.4	715.2
15°	806.6	792.8	787.4	767.5	747.5	729.8	707.5	689.9	676.8	668.4	657.6
17.5°	778.2	764.4	754.4	737.5	711.4	683.7	662.2	638.4	625.3	610.7	603.8
20°	746.7	735.2	727.5	700.6	669.1	636.1	612.3	597.7	583.1	572.3	566.2
22.5°	719.8	705.2	696.0	659.9	625.3	592.3	573.9	561.6	549.3	540.1	537.0
25°	685.3	676.8	654.5	623.0	580.8	558.5	542.4	526.2	519.3	513.2	506.3
27.5°	656.8	636.1	620.7	579.2	553.1	527.8	511.6	499.3	490.9	484.7	479.4
30°	621.5	602.3	580.8	546.2	522.4	498.6	484.0	474.0	464.8	460.9	456.3
32.5°	584.6	566.9	546.2	518.6	489.4	470.9	459.4	448.6	442.5	438.7	433.3
35°	551.6	529.3	515.5	489.4	465.5	444.8	434.0	424.8	417.9	416.4	415.6
37.5°	516.2	499.3	486.3	459.4	439.4	421.8	411.8	401.8	397.9	397.2	394.1
40°	485.5	470.9	458.6	433.3	411.8	395.6	388.0	381.8	378.0	378.0	377.2
42.5°	458.6	443.3	431.0	407.9	388.7	374.1	365.7	359.5	358.0	358.8	358.0
45°	428.7	415.6	403.3	379.5	363.4	352.6	343.4	340.3	338.0	338.8	339.6
47.5°	400.2	389.5	377.2	358.0	339.6	328.0	322.7	319.6	319.6	319.6	321.1
50°	374.9	362.6	351.8	331.9	315.0	305.8	301.1	297.3	298.1	298.8	299.6
52.5°	344.9	334.2	326.5	306.5	294.2	282.7	277.3	278.1	277.3	277.3	278.9
55°	318.8	308.1	300.4	281.9	269.6	262.0	257.4	255.1	255.8	254.3	257.4
57.5°	289.6	280.4	275.0	257.4	246.6	239.7	235.8	232.0	233.5	232.8	232.0
60°	264.3	253.5	245.1	232.8	223.6	215.1	212.8	209.0	210.5	209.0	208.2
62.5°	235.1	226.6	220.5	208.2	200.5	193.6	188.2	185.9	185.1	182.8	180.5
65°	205.9	201.3	195.1	182.8	175.2	169.8	166.7	164.4	163.6	157.5	150.6
67.5°	179.0	175.9	169.8	160.6	153.6	148.3	143.7	139.8	135.2	130.6	126.8
70°	153.6	149.0	145.2	136.7	130.6	125.2	120.6	116.0	113.7	109.1	107.6
72.5°	129.1	124.5	120.6	112.9	107.6	102.2	100.6	95.3	93.0	92.2	92.2
75°	103.7	99.9	97.6	90.7	86.0	82.2	79.9	78.4	76.8	75.3	73.0
77.5°	79.1	76.8	75.3	70.7	66.8	64.5	63.8	58.4	56.8	55.3	53.8
80°	57.6	56.8	55.3	51.5	49.9	44.6	44.6	43.0	42.3	42.3	42.3
82.5°	39.2	37.6	36.9	33.0	32.3	31.5	30.7	30.0	30.7	30.0	30.7
85°	20.7	20.0	19.2	19.2	19.2	19.2	19.2	19.2	19.2	18.4	19.2
87.5°	7.7	7.7	7.7	7.7	6.9	7.7	7.7	6.9	7.7	7.7	7.7
90°	5.8	6.4	6.8	7.6	8.4	9.2	10.0	10.6	11.2	11.8	12.4
92.5°	6.0	5.9	6.3	7.1	7.9	8.7	9.5	10.1	10.7	11.4	12.0
95°	11.2	9.5	9.6	9.7	9.8	9.9	10.0	10.6	11.2	11.8	12.4
97.5°	56.6	57.7	52.4	41.8	31.2	20.6	10.0	10.5	11.0	11.5	12.0
100°	81.8	82.7	75.7	61.8	47.9	33.9	20.0	18.3	16.6	14.9	13.2
102.5°	109.4	110.0	110.6	111.8	113.0	114.2	115.4	92.7	70.0	47.3	24.6
105°	139.2	139.5	139.8	140.3	140.8	141.3	141.8	142.7	143.6	144.5	145.4
107.5°	167.5	167.7	168.0	168.7	169.4	170.1	170.8	171.3	171.8	172.3	172.8
110°	197.5	197.6	197.9	198.5	199.2	199.8	200.4	200.6	200.8	201.0	201.2

TEST NUMBER: P1033020

CATALOG NUMBER: S124RDIW-B575D470UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	227.8	228.1	228.2	228.4	228.6	228.8	229.0	228.9	228.8	228.7	228.6
115°	256.5	256.7	256.7	256.6	256.5	256.4	256.3	256.5	256.7	256.9	257.1
117.5°	283.8	284.0	284.1	284.4	284.7	285.0	285.3	285.2	285.1	285.0	284.9
120°	311.0	311.2	311.2	311.1	311.0	310.9	310.8	311.0	311.2	311.4	311.6
122.5°	335.7	335.8	335.9	336.1	336.3	336.5	336.7	336.8	336.9	337.0	337.1
125°	360.6	360.8	360.7	360.5	360.3	360.1	359.9	360.2	360.5	360.8	361.1
127.5°	382.5	382.6	382.8	383.3	383.8	384.3	384.8	384.7	384.6	384.5	384.4
130°	404.8	404.8	405.0	405.3	405.6	405.9	406.2	406.3	406.4	406.5	406.6
132.5°	425.6	425.7	425.9	426.3	426.8	427.2	427.6	427.7	427.8	427.9	428.0
135°	444.9	444.8	445.0	445.4	445.8	446.2	446.6	446.8	447.0	447.2	447.4
137.5°	463.4	463.4	463.7	464.2	464.7	465.2	465.7	465.9	466.1	466.3	466.5
140°	482.0	482.1	482.2	482.4	482.6	482.8	483.0	483.3	483.6	483.9	484.2
142.5°	498.7	498.9	498.9	499.0	499.1	499.2	499.3	499.5	499.7	499.9	500.1
145°	514.6	514.8	514.8	514.8	514.8	514.8	514.8	514.9	515.0	515.1	515.2
147.5°	528.6	528.9	528.8	528.7	528.6	528.5	528.4	528.5	528.6	528.7	528.8
150°	541.8	542.0	542.0	541.9	541.8	541.7	541.6	541.6	541.6	541.6	541.6
152.5°	553.2	553.4	553.3	553.1	552.9	552.7	552.5	552.7	552.9	553.1	553.3
155°	563.3	563.4	563.2	562.9	562.6	562.3	562.0	562.4	562.8	563.3	563.7
157.5°	572.5	572.5	572.3	571.9	571.5	571.1	570.7	571.2	571.7	572.2	572.7
160°	579.5	579.3	579.3	579.2	579.1	579.0	578.9	579.5	580.1	580.7	581.3
162.5°	586.3	586.1	586.1	586.0	585.9	585.8	585.7	586.3	586.9	587.5	588.1
165°	591.8	591.6	591.6	591.6	591.6	591.6	591.6	592.4	593.2	594.0	594.8
167.5°	596.8	596.6	596.5	596.4	596.3	596.2	596.1	597.0	597.9	598.8	599.7
170°	600.5	600.2	600.3	600.4	600.5	600.6	600.7	601.5	602.3	603.1	603.9
172.5°	603.2	602.9	603.0	603.1	603.2	603.3	603.4	604.2	605.0	605.8	606.6
175°	605.1	604.8	604.8	604.9	605.0	605.1	605.2	606.1	607.0	607.9	608.8
177.5°	606.0	605.7	605.8	606.0	606.2	606.4	606.6	607.4	608.2	609.0	609.8
180°	607.5	607.5	607.5	607.5	607.5	607.5	607.5	607.5	607.5	607.5	607.5

TEST NUMBER: P1033020

CATALOG NUMBER: S124RDIW-B575D470UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	953.4	953.4	953.4	953.4	953.4	953.4	953.4	953.4	953.4	953.4	953.4
2.5°	901.1	904.2	900.4	902.7	897.3	896.5	897.3	897.3	898.1	898.8	899.6
5°	850.4	849.7	845.0	842.0	839.7	842.0	843.5	845.0	843.5	845.0	845.8
7.5°	802.8	800.5	798.2	792.8	794.3	792.8	797.4	795.1	795.1	799.0	802.0
10°	760.5	755.9	754.4	748.3	743.6	742.9	748.3	750.6	752.9	754.4	760.5
12.5°	706.0	699.1	693.7	696.0	683.0	688.3	689.9	686.8	696.0	706.8	700.6
15°	647.6	648.4	637.6	633.8	623.0	626.1	626.9	634.6	642.2	641.5	650.7
17.5°	604.6	600.0	590.8	590.0	585.4	587.7	586.9	593.1	590.8	594.6	602.3
20°	564.6	561.6	553.9	550.8	552.4	550.8	551.6	552.4	554.7	563.1	561.6
22.5°	533.1	529.3	529.3	525.5	520.9	519.3	523.2	525.5	528.5	530.1	533.9
25°	505.5	502.4	498.6	496.3	492.4	493.2	495.5	498.6	500.9	504.0	507.0
27.5°	477.1	477.1	473.2	472.5	470.9	470.2	473.2	474.8	474.8	477.1	480.1
30°	454.8	454.8	450.9	450.2	449.4	449.4	451.7	452.5	453.3	455.6	457.1
32.5°	433.3	432.5	431.0	431.7	431.0	431.7	431.7	432.5	434.0	434.8	437.9
35°	413.3	414.1	412.5	412.5	411.8	412.5	414.1	414.8	415.6	417.1	417.1
37.5°	394.1	395.6	394.9	397.2	397.2	397.2	397.2	398.7	398.7	398.7	397.9
40°	377.2	377.2	376.4	378.0	379.5	379.5	380.3	380.3	381.0	381.0	380.3
42.5°	358.0	359.5	361.8	362.6	364.1	363.4	365.7	364.9	365.7	364.1	362.6
45°	340.3	340.3	343.4	346.5	347.2	347.2	347.2	348.8	347.2	344.9	344.2
47.5°	321.1	322.7	324.2	328.0	328.8	328.8	328.8	328.8	327.3	327.3	327.3
50°	301.9	302.7	303.4	305.0	307.3	306.5	306.5	306.5	309.6	306.5	307.3
52.5°	278.9	279.6	280.4	283.5	282.7	282.7	283.5	283.5	285.8	285.0	283.5
55°	255.8	255.8	257.4	257.4	257.4	258.9	259.7	261.2	260.4	261.2	262.0
57.5°	232.8	231.2	230.5	230.5	232.8	232.0	232.8	232.8	235.8	237.4	238.1
60°	205.9	205.9	205.1	200.5	200.5	199.7	202.0	203.6	205.1	212.0	211.3
62.5°	178.2	175.2	172.1	172.9	168.2	170.5	169.0	170.5	175.2	180.5	181.3
65°	150.6	148.3	145.2	144.4	142.9	145.2	144.4	145.2	147.5	150.6	154.4
67.5°	126.0	125.2	123.7	122.9	122.9	122.9	124.5	124.5	125.2	127.5	129.8
70°	107.6	106.8	107.6	106.0	106.8	106.0	106.8	107.6	108.3	109.1	111.4
72.5°	90.7	90.7	90.7	89.1	90.7	89.9	89.9	90.7	91.4	92.2	93.7
75°	72.2	70.7	69.1	67.6	66.8	68.4	69.1	68.4	70.7	73.7	73.7
77.5°	54.5	53.8	53.8	53.8	54.5	53.8	55.3	54.5	55.3	55.3	56.8
80°	42.3	41.5	42.3	42.3	41.5	43.0	42.3	42.3	43.0	43.8	43.0
82.5°	30.7	31.5	30.7	30.7	30.7	32.3	30.7	30.7	30.7	31.5	31.5
85°	19.2	19.2	19.2	19.2	20.0	19.2	20.0	19.2	20.7	20.0	20.0
87.5°	6.9	7.7	8.5	8.5	8.5	8.5	7.7	8.5	9.2	8.5	9.2
90°	12.7	12.8	13.0	13.2	13.4	13.6	13.4	13.2	13.0	12.8	12.7
92.5°	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
95°	12.7	12.8	12.9	13.0	13.1	13.2	13.1	13.0	12.9	12.8	12.7
97.5°	12.3	12.3	12.4	12.5	12.6	12.7	12.6	12.5	12.4	12.3	12.3
100°	12.3	12.3	12.4	12.5	12.6	12.7	12.6	12.5	12.4	12.3	12.3
102.5°	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2
105°	145.8	144.0	140.4	136.7	133.1	129.5	133.1	136.7	140.4	144.0	145.8
107.5°	173.1	173.3	173.7	174.1	174.5	174.9	174.5	174.1	173.7	173.3	173.1
110°	201.3	201.4	201.7	202.0	202.3	202.6	202.3	202.0	201.7	201.4	201.3

TEST NUMBER: P1033020

CATALOG NUMBER: S124RDIW-B575D470UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	228.5	228.7	229.1	229.6	230.0	230.4	230.0	229.6	229.1	228.7	228.5
115°	257.2	257.2	257.2	257.2	257.2	257.2	257.2	257.2	257.2	257.2	257.2
117.5°	284.9	284.9	284.9	284.9	284.9	284.9	284.9	284.9	284.9	284.9	284.9
120°	311.7	311.6	311.4	311.2	311.0	310.8	311.0	311.2	311.4	311.6	311.7
122.5°	337.1	337.0	336.8	336.6	336.4	336.2	336.4	336.6	336.8	337.0	337.1
125°	361.2	361.3	361.4	361.5	361.6	361.7	361.6	361.5	361.4	361.3	361.2
127.5°	384.4	384.3	384.2	384.1	384.0	383.9	384.0	384.1	384.2	384.3	384.4
130°	406.7	406.7	406.7	406.7	406.7	406.7	406.7	406.7	406.7	406.7	406.7
132.5°	428.0	428.0	427.9	427.8	427.7	427.6	427.7	427.8	427.9	428.0	428.0
135°	447.5	447.6	447.8	448.1	448.3	448.5	448.3	448.1	447.8	447.6	447.5
137.5°	466.6	466.6	466.5	466.4	466.3	466.2	466.3	466.4	466.5	466.6	466.6
140°	484.3	484.4	484.5	484.6	484.7	484.8	484.7	484.6	484.5	484.4	484.3
142.5°	500.2	500.2	500.2	500.2	500.2	500.2	500.2	500.2	500.2	500.2	500.2
145°	515.2	515.3	515.5	515.8	516.0	516.2	516.0	515.8	515.5	515.3	515.2
147.5°	528.9	528.9	529.0	529.1	529.2	529.3	529.2	529.1	529.0	528.9	528.9
150°	541.6	541.6	541.7	541.8	541.9	542.0	541.9	541.8	541.7	541.6	541.6
152.5°	553.4	553.4	553.3	553.2	553.1	553.0	553.1	553.2	553.3	553.4	553.4
155°	563.9	563.7	563.4	563.1	562.8	562.5	562.8	563.1	563.4	563.7	563.9
157.5°	572.9	572.7	572.2	571.7	571.2	570.7	571.2	571.7	572.2	572.7	572.9
160°	581.6	581.3	580.7	580.1	579.5	578.9	579.5	580.1	580.7	581.3	581.6
162.5°	588.4	588.0	587.3	586.6	585.9	585.2	585.9	586.6	587.3	588.0	588.4
165°	595.2	594.7	593.8	592.9	592.0	591.1	592.0	592.9	593.8	594.7	595.2
167.5°	600.2	599.7	598.7	597.7	596.7	595.7	596.7	597.7	598.7	599.7	600.2
170°	604.3	603.8	602.8	601.8	600.8	599.8	600.8	601.8	602.8	603.8	604.3
172.5°	607.0	606.4	605.3	604.2	603.1	602.0	603.1	604.2	605.3	606.4	607.0
175°	609.3	608.7	607.5	606.2	605.0	603.8	605.0	606.2	607.5	608.7	609.3
177.5°	610.2	609.6	608.4	607.2	606.0	604.8	606.0	607.2	608.4	609.6	610.2
180°	607.5	607.5	607.5	607.5	607.5	607.5	607.5	607.5	607.5	607.5	607.5

TEST NUMBER: P1033020

CATALOG NUMBER: S124RDIW-B575D470UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	953.4	953.4	953.4	953.4	953.4	953.4	953.4	953.4	953.4	953.4	953.4
2.5°	902.7	906.5	905.0	899.6	901.9	906.5	911.1	917.3	921.1	924.2	925.7
5°	849.7	856.6	855.0	855.0	858.1	865.8	873.5	886.5	891.1	896.5	904.2
7.5°	802.8	808.2	812.8	814.3	818.9	828.9	838.9	853.5	865.0	871.2	875.8
10°	761.3	765.2	772.1	775.9	780.5	792.8	807.4	822.8	834.3	845.0	851.2
12.5°	708.3	723.7	732.9	739.0	745.2	763.6	775.1	792.0	805.9	815.9	825.1
15°	649.1	667.6	673.0	696.8	712.1	726.7	744.4	764.4	777.4	789.0	801.3
17.5°	599.2	612.3	618.4	643.8	656.8	679.9	705.2	730.6	750.6	759.0	771.3
20°	567.7	574.6	586.9	595.4	609.2	636.1	663.7	694.5	724.4	732.9	745.2
22.5°	535.5	544.7	553.1	564.6	575.4	593.8	621.5	655.3	687.6	702.9	717.5
25°	506.3	515.5	520.9	533.1	543.1	561.6	580.8	615.3	653.8	666.8	689.9
27.5°	483.2	488.6	497.8	503.2	514.7	531.6	549.3	575.4	613.0	635.3	657.6
30°	460.2	464.0	471.7	479.4	487.8	499.3	519.3	544.7	579.2	598.4	620.7
32.5°	437.1	443.3	447.9	453.3	462.5	476.3	490.1	514.7	542.4	563.9	586.2
35°	417.9	420.2	426.4	432.5	438.7	450.9	465.5	489.4	513.9	530.8	550.8
37.5°	397.2	401.0	405.6	407.9	417.9	425.6	441.0	459.4	488.6	499.3	519.3
40°	381.0	380.3	384.9	388.7	393.3	405.6	414.8	434.8	457.9	474.8	487.1
42.5°	361.1	361.1	362.6	367.2	373.4	381.0	391.8	408.7	432.5	444.8	459.4
45°	344.9	342.6	343.4	346.5	350.3	358.0	368.7	383.3	407.2	417.1	432.5
47.5°	325.7	323.4	323.4	326.5	329.6	334.9	343.4	360.3	379.5	392.6	404.1
50°	304.2	305.0	304.2	306.5	308.1	313.4	322.7	336.5	354.2	364.9	378.0
52.5°	284.2	282.7	281.9	283.5	286.5	290.4	300.4	312.7	329.6	340.3	351.8
55°	259.7	261.2	261.2	261.2	265.8	267.3	275.0	287.3	304.2	312.7	323.4
57.5°	237.4	236.6	238.1	237.4	241.2	246.6	252.7	262.0	278.9	287.3	297.3
60°	212.8	213.6	214.3	214.3	217.4	222.8	229.7	238.1	252.0	260.4	269.6
62.5°	182.8	186.7	190.5	192.1	196.7	200.5	205.1	214.3	226.6	232.8	241.2
65°	154.4	159.8	165.2	169.0	172.1	175.9	182.1	190.5	200.5	206.7	215.1
67.5°	129.8	133.7	140.6	144.4	150.6	155.2	159.0	165.9	178.2	180.5	187.4
70°	112.2	113.7	116.8	119.8	126.8	130.6	135.2	142.1	151.3	156.7	160.6
72.5°	94.5	95.3	96.8	99.9	102.9	107.6	112.9	119.1	127.5	129.8	135.2
75°	75.3	79.9	79.9	82.2	84.5	86.8	91.4	97.6	102.9	106.8	109.9
77.5°	56.1	58.4	59.9	63.8	66.8	69.1	72.2	76.8	79.9	83.0	85.3
80°	43.8	44.6	45.3	45.3	46.9	49.9	53.0	56.1	59.9	61.5	63.8
82.5°	32.3	32.3	32.3	33.8	34.6	35.3	35.3	36.9	40.7	42.3	44.6
85°	20.7	20.7	20.7	20.7	21.5	22.3	23.0	23.8	23.8	23.8	25.4
87.5°	8.5	10.0	9.2	10.0	10.0	10.0	10.0	10.8	10.8	11.5	11.5
90°	12.4	11.8	11.2	10.6	10.0	9.2	8.4	7.6	6.8	6.4	5.8
92.5°	12.0	11.4	10.7	10.1	9.5	8.7	7.9	7.1	6.3	5.9	6.0
95°	12.4	11.8	11.2	10.6	10.0	9.9	9.8	9.7	9.6	9.5	11.2
97.5°	12.0	11.5	11.0	10.5	10.0	20.6	31.2	41.8	52.4	57.7	56.6
100°	13.2	14.9	16.6	18.3	20.0	33.9	47.9	61.8	75.7	82.7	81.8
102.5°	24.6	47.3	70.0	92.7	115.4	114.2	113.0	111.8	110.6	110.0	109.4
105°	145.4	144.5	143.6	142.7	141.8	141.3	140.8	140.3	139.8	139.5	139.2
107.5°	172.8	172.3	171.8	171.3	170.8	170.1	169.4	168.7	168.0	167.7	167.5
110°	201.2	201.0	200.8	200.6	200.4	199.8	199.2	198.5	197.9	197.6	197.5

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CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	228.6	228.7	228.8	228.9	229.0	228.8	228.6	228.4	228.2	228.1	227.8
115°	257.1	256.9	256.7	256.5	256.3	256.4	256.5	256.6	256.7	256.7	256.5
117.5°	284.9	285.0	285.1	285.2	285.3	285.0	284.7	284.4	284.1	284.0	283.8
120°	311.6	311.4	311.2	311.0	310.8	310.9	311.0	311.1	311.2	311.2	311.0
122.5°	337.1	337.0	336.9	336.8	336.7	336.5	336.3	336.1	335.9	335.8	335.7
125°	361.1	360.8	360.5	360.2	359.9	360.1	360.3	360.5	360.7	360.8	360.6
127.5°	384.4	384.5	384.6	384.7	384.8	384.3	383.8	383.3	382.8	382.6	382.5
130°	406.6	406.5	406.4	406.3	406.2	405.9	405.6	405.3	405.0	404.8	404.8
132.5°	428.0	427.9	427.8	427.7	427.6	427.2	426.8	426.3	425.9	425.7	425.6
135°	447.4	447.2	447.0	446.8	446.6	446.2	445.8	445.4	445.0	444.8	444.9
137.5°	466.5	466.3	466.1	465.9	465.7	465.2	464.7	464.2	463.7	463.4	463.4
140°	484.2	483.9	483.6	483.3	483.0	482.8	482.6	482.4	482.2	482.1	482.0
142.5°	500.1	499.9	499.7	499.5	499.3	499.2	499.1	499.0	498.9	498.9	498.7
145°	515.2	515.1	515.0	514.9	514.8	514.8	514.8	514.8	514.8	514.8	514.6
147.5°	528.8	528.7	528.6	528.5	528.4	528.5	528.6	528.7	528.8	528.9	528.6
150°	541.6	541.6	541.6	541.6	541.6	541.7	541.8	541.9	542.0	542.0	541.8
152.5°	553.3	553.1	552.9	552.7	552.5	552.7	552.9	553.1	553.3	553.4	553.2
155°	563.7	563.3	562.8	562.4	562.0	562.3	562.6	562.9	563.2	563.4	563.3
157.5°	572.7	572.2	571.7	571.2	570.7	571.1	571.5	571.9	572.3	572.5	572.5
160°	581.3	580.7	580.1	579.5	578.9	579.0	579.1	579.2	579.3	579.3	579.5
162.5°	588.1	587.5	586.9	586.3	585.7	585.8	585.9	586.0	586.1	586.1	586.3
165°	594.8	594.0	593.2	592.4	591.6	591.6	591.6	591.6	591.6	591.6	591.8
167.5°	599.7	598.8	597.9	597.0	596.1	596.2	596.3	596.4	596.5	596.6	596.8
170°	603.9	603.1	602.3	601.5	600.7	600.6	600.5	600.4	600.3	600.2	600.5
172.5°	606.6	605.8	605.0	604.2	603.4	603.3	603.2	603.1	603.0	602.9	603.2
175°	608.8	607.9	607.0	606.1	605.2	605.1	605.0	604.9	604.8	604.8	605.1
177.5°	609.8	609.0	608.2	607.4	606.6	606.4	606.2	606.0	605.8	605.7	606.0
180°	607.5	607.5	607.5	607.5	607.5	607.5	607.5	607.5	607.5	607.5	607.5

TEST NUMBER: P1033020

CATALOG NUMBER: S124RDIW-B575D470UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	953.4	953.4	953.4	953.4
2.5°	931.9	936.5	944.1	954.9
5°	910.3	923.4	935.7	951.8
7.5°	891.1	906.5	923.4	946.5
10°	868.9	888.1	909.6	938.0
12.5°	842.7	869.6	894.2	924.9
15°	823.5	843.5	875.0	911.1
17.5°	796.6	823.5	855.0	895.8
20°	771.3	799.7	835.1	877.3
22.5°	744.4	776.7	812.0	857.3
25°	716.8	751.3	786.7	835.1
27.5°	691.4	722.9	762.8	812.0
30°	660.7	696.8	735.2	786.7
32.5°	630.7	668.4	707.5	759.0
35°	598.4	636.1	679.1	728.3
37.5°	566.9	608.4	647.6	695.2
40°	532.4	575.4	616.1	664.5
42.5°	498.6	543.1	583.9	625.3
45°	467.1	510.9	547.7	586.9
47.5°	437.1	476.3	513.9	549.3
50°	407.9	441.0	475.5	504.7
52.5°	377.2	408.7	436.4	462.5
55°	349.5	374.1	398.7	422.5
57.5°	316.5	341.1	362.6	381.0
60°	288.9	304.2	325.0	344.2
62.5°	257.4	275.0	291.2	303.4
65°	226.6	242.0	254.3	265.0
67.5°	200.5	209.7	218.9	230.5
70°	169.0	176.7	187.4	195.9
72.5°	142.1	148.3	153.6	163.6
75°	115.2	120.6	123.7	132.9
77.5°	89.1	94.5	96.8	102.2
80°	68.4	69.1	72.2	76.8
82.5°	46.9	48.4	49.2	53.0
85°	26.9	30.7	30.0	31.5
87.5°	11.5	12.3	13.8	15.4
90°	4.7	3.6	2.5	1.4
92.5°	6.2	6.4	6.6	6.8
95°	14.7	18.1	21.6	25.0
97.5°	54.4	52.1	49.9	47.7
100°	80.0	78.1	76.3	74.5
102.5°	108.2	106.9	105.7	104.5
105°	138.6	138.0	137.4	136.8
107.5°	167.2	166.9	166.6	166.3
110°	197.2	196.9	196.6	196.3

TEST NUMBER: P1033020

CATALOG NUMBER: S124RDIW-B575D470UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	227.2	226.6	226.0	225.4
115°	256.2	255.9	255.6	255.3
117.5°	283.4	283.0	282.6	282.2
120°	310.6	310.2	309.8	309.4
122.5°	335.5	335.3	335.1	334.9
125°	360.2	359.7	359.3	358.9
127.5°	382.4	382.3	382.2	382.1
130°	404.7	404.6	404.5	404.4
132.5°	425.4	425.2	425.0	424.8
135°	445.0	445.1	445.2	445.3
137.5°	463.4	463.4	463.4	463.4
140°	481.8	481.6	481.4	481.2
142.5°	498.3	497.9	497.5	497.1
145°	514.3	514.0	513.7	513.4
147.5°	528.0	527.3	526.7	526.1
150°	541.4	541.0	540.6	540.2
152.5°	552.9	552.6	552.3	552.0
155°	563.2	563.1	563.0	562.9
157.5°	572.5	572.5	572.5	572.5
160°	579.8	580.1	580.4	580.7
162.5°	586.7	587.1	587.5	587.9
165°	592.3	592.8	593.3	593.8
167.5°	597.3	597.8	598.3	598.8
170°	601.1	601.7	602.3	602.9
172.5°	603.8	604.5	605.1	605.7
175°	605.7	606.3	606.9	607.5
177.5°	606.7	607.4	608.1	608.8
180°	607.5	607.5	607.5	607.5

(END OF REPORT)