

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: P1013379

Luminaire Tested: S124RDIP-B575D590UB2750-4F0-XX-W2A-A_4000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1013379
REPORT IS A COMBINATION OF REPORTS P999548 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B575D590UB2750-4F0-XX-W2A-A_4000K
Description: Define 4 Regressed Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

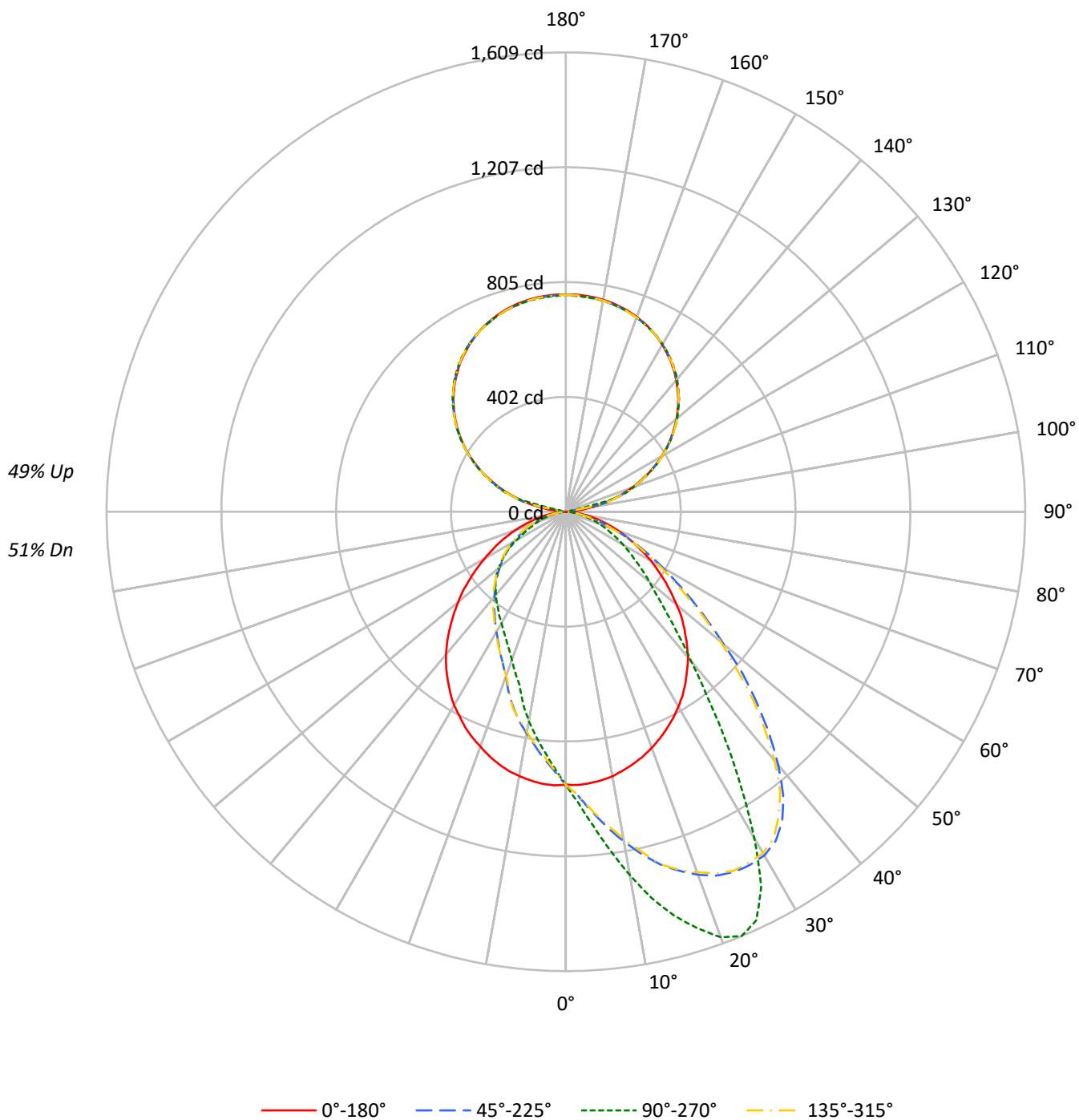
Lumens per Lamp: N/A
Luminaire Lumens: 4770.0 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 39.4
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

TEST NUMBER: P1013379

CATALOG NUMBER: S124RDIP-B575D590UB2750-4F0-XX-W2A-A_4000K

Luminous Intensity Polar Plot



TEST NUMBER: P1013379

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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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	57	57	57
1	98	94	91	87	91	87	84	81	74	72	70	62	60	59	51	50	49	49	49	44
2	90	83	77	72	83	77	72	67	65	62	58	55	52	50	45	44	42	42	42	37
3	82	73	66	60	76	68	62	57	58	54	50	49	46	43	41	38	36	36	36	32
4	76	65	57	52	70	61	54	49	52	47	43	44	40	37	37	34	31	31	31	28
5	69	58	50	44	64	54	47	42	47	41	37	40	36	32	33	30	28	28	28	24
6	64	52	44	39	59	49	42	37	42	37	33	36	32	28	30	27	25	25	25	22
7	59	47	40	34	55	44	37	32	38	33	29	33	29	25	28	24	22	22	22	19
8	55	43	35	30	51	40	33	29	35	30	26	30	26	23	25	22	20	20	20	17
9	51	39	32	27	48	37	30	26	32	27	23	28	23	20	23	20	18	18	18	16
10	48	36	29	24	44	34	27	23	30	24	21	26	21	19	22	19	16	16	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7796	7796	7796	7796
5°	7797	8810	7809	6733
10°	7755	10156	7749	5856
15°	7663	11430	7663	4903
20°	7567	12393	7526	4317
25°	7449	12446	7414	3899
30°	7323	10583	7266	3612
35°	7146	7985	7055	3397
40°	6948	5787	6811	3230
45°	6622	4398	6458	3082
50°	6236	3555	6065	2865
55°	5817	2943	5627	2576
60°	5396	2489	5155	2142
65°	4868	2028	4712	1703
70°	4384	1644	4176	1383
75°	3841	1184	3573	1014
80°	3167	786	2883	744
85°	2299	405	1907	405

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 35°

Vertical Angle: 45°

Luminance: 9760 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.6	1.9
10°-20°	279.6	5.9
20°-30°	438.0	9.2
30°-40°	486.3	10.2
40°-50°	431.0	9.0
50°-60°	335.8	7.0
60°-70°	219.7	4.6
70°-80°	107.8	2.3
80°-90°	27.8	0.6
90°-100°	25.2	0.5
100°-110°	166.1	3.5
110°-120°	317.2	6.7
120°-130°	402.7	8.4
130°-140°	430.8	9.0
140°-150°	402.8	8.4
150°-160°	324.8	6.8
160°-170°	209.5	4.4
170°-180°	72.2	1.5
0°-30°	810.1	17.0
0°-40°	1296.5	27.2
0°-60°	2063.3	43.3
0°-90°	2418.6	50.7
90°-120°	508.5	10.7
90°-150°	1744.9	36.6
90°-180°	2351.0	49.3
0°-180°	4770.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	956	956	956	956	956	
5°	955	1105	956	844	955	91
15°	914	1464	914	628	914	258
25°	838	1579	834	495	838	386
35°	730	972	721	414	730	457
45°	589	497	574	348	589	454
55°	424	297	410	260	424	379
65°	266	173	257	146	266	265
75°	133	80	124	69	133	141
85°	32	19	26	19	32	36
90°	2	17	2	17	2	4
95°	31	16	31	16	31	39
105°	171	162	171	162	171	179
115°	319	322	319	322	319	314
125°	449	452	449	452	449	401
135°	557	561	557	561	557	429
145°	642	646	642	646	642	401
155°	704	704	704	704	704	325
165°	743	739	743	739	743	210
175°	760	755	760	755	760	72
180°	760	760	760	760	760	

TEST NUMBER: P1013379

CATALOG NUMBER: S124RDIP-B575D590UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	956.1	956.1	956.1	956.1	956.1	956.1	956.1	956.1	956.1	956.1	956.1
2.5°	957.7	966.2	970.8	974.6	982.3	985.4	991.6	993.1	999.3	998.5	996.2
5°	954.6	969.2	980.0	991.6	1005.4	1013.1	1021.6	1034.0	1040.1	1048.6	1054.0
7.5°	949.2	969.2	987.0	1004.7	1027.0	1039.3	1050.1	1069.4	1085.6	1099.4	1114.9
10°	940.7	966.2	992.3	1016.2	1047.0	1061.7	1077.9	1106.4	1128.7	1148.0	1172.6
12.5°	927.6	963.1	992.3	1024.7	1064.0	1084.0	1105.6	1139.5	1165.7	1197.3	1228.1
15°	913.8	953.1	991.6	1034.0	1078.6	1101.8	1123.3	1168.8	1208.8	1245.1	1279.0
17.5°	898.4	941.5	983.9	1030.9	1084.8	1113.3	1138.7	1193.4	1237.4	1284.4	1318.3
20°	879.9	926.9	975.4	1027.8	1088.7	1120.2	1148.8	1211.2	1259.7	1310.5	1352.9
22.5°	859.8	910.7	963.8	1020.9	1084.0	1118.7	1151.8	1218.9	1275.1	1322.1	1379.1
25°	837.5	891.4	946.1	1006.2	1077.1	1114.9	1148.8	1215.0	1275.1	1336.7	1392.2
27.5°	814.4	869.8	926.9	990.0	1062.5	1099.4	1138.0	1201.9	1272.0	1339.1	1395.3
30°	788.9	842.9	903.0	963.1	1040.1	1077.1	1116.4	1185.7	1262.0	1329.0	1389.9
32.5°	761.2	816.7	873.7	936.1	1011.6	1051.7	1087.9	1166.5	1244.3	1310.5	1367.6
35°	730.4	782.8	836.7	900.7	975.4	1011.6	1054.8	1136.4	1215.0	1285.1	1322.1
37.5°	697.3	747.3	797.4	860.6	932.3	976.2	1018.5	1101.0	1184.2	1231.2	1250.5
40°	666.4	710.4	754.3	815.1	887.6	933.0	976.2	1061.7	1134.9	1171.1	1156.5
42.5°	627.2	672.6	711.9	768.1	841.3	883.7	927.6	1016.2	1075.6	1090.2	1054.0
45°	588.6	626.4	664.1	718.8	795.9	832.1	879.1	961.5	1010.8	997.7	944.6
47.5°	550.9	581.7	617.1	670.3	739.6	782.8	826.7	898.4	933.0	914.5	840.6
50°	506.2	537.0	574.0	620.2	687.2	728.9	763.5	829.8	856.0	810.5	721.1
52.5°	463.8	490.8	522.4	565.5	629.5	667.2	705.0	762.0	770.5	718.1	624.1
55°	423.8	445.3	478.5	513.1	571.7	611.7	637.9	686.5	684.2	618.7	537.8
57.5°	382.1	402.2	424.5	460.7	516.2	546.3	574.8	617.1	594.8	539.3	459.2
60°	345.2	356.7	379.1	413.7	460.7	486.9	509.3	532.4	513.1	453.0	391.4
62.5°	304.3	317.4	333.6	361.3	402.9	427.6	443.8	453.8	433.8	387.5	331.3
65°	265.8	277.4	294.3	319.0	350.6	369.0	377.5	384.5	373.7	321.3	276.6
67.5°	231.1	238.8	254.3	270.4	304.3	309.0	320.5	323.6	302.0	262.0	226.5
70°	196.5	204.2	211.1	230.4	245.8	254.3	256.6	256.6	235.0	208.8	179.5
72.5°	164.1	168.7	175.7	188.8	197.2	203.4	206.5	202.6	182.6	161.0	139.5
75°	133.3	135.6	141.8	150.2	157.2	154.9	154.1	149.5	134.8	119.4	107.1
77.5°	102.5	104.0	110.9	113.3	113.3	115.6	112.5	107.9	95.5	84.0	78.6
80°	77.0	79.4	80.1	81.7	80.1	80.1	77.8	70.1	63.9	58.6	54.7
82.5°	53.2	54.7	55.5	53.2	54.7	52.4	48.5	43.1	39.3	38.5	37.0
85°	31.6	32.4	31.6	31.6	29.3	28.5	25.4	24.7	23.1	23.1	22.3
87.5°	15.4	14.6	13.1	11.6	11.6	10.8	11.6	10.0	11.6	10.8	10.0
90°	1.7	3.1	4.5	5.9	7.3	8.0	8.5	9.5	10.5	11.5	12.5
92.5°	8.5	8.3	8.0	7.8	7.5	7.4	7.9	8.9	9.9	10.9	11.9
95°	31.3	27.0	22.7	18.4	14.1	11.9	12.0	12.1	12.2	12.4	12.5
97.5°	59.7	62.5	65.3	68.0	70.8	72.2	65.6	52.3	39.0	25.8	12.5
100°	93.2	95.5	97.7	100.0	102.3	103.4	94.7	77.3	59.8	42.4	25.0
102.5°	130.7	132.2	133.7	135.2	136.7	137.5	138.3	139.8	141.3	142.9	144.4
105°	171.1	171.9	172.6	173.4	174.1	174.5	174.8	175.4	176.1	176.7	177.3
107.5°	208.0	208.4	208.8	209.1	209.5	209.7	210.1	211.0	211.9	212.8	213.7
110°	245.5	245.9	246.3	246.6	247.0	247.2	247.6	248.4	249.1	249.9	250.7

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	281.9	282.7	283.4	284.2	284.9	285.3	285.4	285.7	286.0	286.2	286.5
115°	319.4	319.8	320.2	320.5	320.9	321.1	321.0	320.9	320.8	320.7	320.6
117.5°	353.0	353.5	354.0	354.5	355.0	355.2	355.4	355.8	356.1	356.5	356.9
120°	387.1	387.6	388.1	388.6	389.1	389.3	389.2	389.1	389.0	388.9	388.8
122.5°	418.9	419.1	419.4	419.6	419.9	420.0	420.1	420.4	420.7	420.9	421.2
125°	449.0	449.5	450.0	450.5	451.0	451.3	451.2	450.9	450.6	450.4	450.1
127.5°	478.0	478.1	478.3	478.4	478.5	478.6	478.9	479.5	480.2	480.8	481.4
130°	505.8	505.9	506.1	506.2	506.3	506.4	506.6	507.0	507.3	507.7	508.1
132.5°	531.4	531.7	531.9	532.2	532.5	532.6	532.8	533.3	533.8	534.3	534.8
135°	557.0	556.9	556.7	556.6	556.5	556.4	556.7	557.2	557.7	558.2	558.7
137.5°	579.7	579.7	579.7	579.7	579.7	579.7	580.0	580.7	581.3	582.0	582.6
140°	601.9	602.1	602.4	602.6	602.9	603.0	603.1	603.4	603.7	603.9	604.2
142.5°	621.8	622.3	622.8	623.3	623.8	624.1	624.2	624.3	624.4	624.5	624.6
145°	642.3	642.7	643.1	643.4	643.8	644.0	644.0	644.0	644.0	644.0	644.0
147.5°	658.2	659.0	659.7	660.5	661.2	661.6	661.5	661.4	661.3	661.1	661.0
150°	675.8	676.3	676.8	677.3	677.8	678.1	678.0	677.9	677.8	677.6	677.5
152.5°	690.6	691.0	691.4	691.7	692.1	692.3	692.2	691.9	691.6	691.4	691.1
155°	704.2	704.3	704.5	704.6	704.7	704.8	704.6	704.2	703.9	703.5	703.1
157.5°	716.1	716.1	716.1	716.1	716.1	716.1	715.9	715.4	714.9	714.4	713.9
160°	726.4	726.0	725.6	725.3	724.9	724.7	724.6	724.5	724.4	724.2	724.1
162.5°	735.5	735.0	734.5	734.0	733.5	733.2	733.1	733.0	732.9	732.7	732.6
165°	742.9	742.3	741.6	741.0	740.3	740.0	740.0	740.0	740.0	740.0	740.0
167.5°	749.1	748.5	747.9	747.2	746.6	746.3	746.2	746.1	746.0	745.8	745.7
170°	754.2	753.4	752.7	751.9	751.2	750.8	750.9	751.0	751.1	751.3	751.4
172.5°	757.6	756.8	756.1	755.3	754.6	754.2	754.3	754.4	754.5	754.7	754.8
175°	759.9	759.1	758.4	757.6	756.9	756.5	756.6	756.7	756.8	757.0	757.1
177.5°	761.6	760.7	759.8	758.9	758.0	757.6	757.7	758.0	758.3	758.5	758.8
180°	759.9	759.9	759.9	759.9	759.9	759.9	759.9	759.9	759.9	759.9	759.9

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	956.1	956.1	956.1	956.1	956.1	956.1	956.1	956.1	956.1	956.1	956.1
2.5°	1002.4	1010.8	1011.6	1019.3	1017.0	1013.1	1020.1	1015.5	1024.7	1021.6	1025.5
5°	1060.9	1072.5	1082.5	1088.7	1099.4	1097.1	1108.7	1104.8	1113.3	1104.8	1115.6
7.5°	1129.5	1148.8	1158.8	1174.9	1179.6	1180.3	1194.2	1197.3	1202.7	1197.3	1203.5
10°	1196.5	1219.6	1242.7	1255.8	1264.3	1275.9	1288.2	1293.6	1297.4	1292.1	1295.9
12.5°	1257.4	1293.6	1319.0	1345.2	1351.4	1361.4	1374.5	1373.0	1388.4	1385.3	1392.2
15°	1313.6	1353.7	1384.5	1405.3	1422.3	1430.7	1455.4	1456.9	1456.2	1463.9	1459.2
17.5°	1363.7	1397.6	1441.5	1468.5	1489.3	1489.3	1503.2	1531.7	1529.4	1528.6	1533.2
20°	1404.5	1443.1	1483.9	1529.4	1546.3	1549.4	1568.6	1583.3	1585.6	1585.6	1585.6
22.5°	1435.4	1480.8	1524.7	1557.1	1570.2	1581.0	1597.9	1607.2	1610.3	1608.7	1610.3
25°	1450.8	1493.9	1538.6	1567.9	1575.6	1581.7	1583.3	1588.7	1587.9	1578.7	1584.1
27.5°	1453.9	1495.5	1524.7	1532.4	1528.6	1524.7	1500.1	1502.4	1495.5	1481.6	1487.0
30°	1440.0	1462.3	1461.6	1437.7	1430.7	1414.6	1392.2	1359.1	1332.1	1320.6	1324.4
32.5°	1389.9	1389.9	1362.2	1308.2	1284.4	1255.1	1215.0	1185.0	1149.5	1141.8	1156.5
35°	1320.6	1281.3	1230.4	1159.5	1123.3	1101.8	1032.4	1010.8	980.8	972.3	979.2
37.5°	1212.7	1147.2	1073.2	1007.0	976.2	937.6	876.8	846.0	824.4	809.7	816.7
40°	1091.7	1012.4	935.3	853.7	819.8	788.2	742.7	715.0	680.3	681.9	684.2
42.5°	976.2	882.9	796.7	721.1	688.8	662.6	631.0	597.1	584.8	580.9	577.1
45°	853.7	754.3	673.4	617.1	587.9	563.2	533.9	514.7	500.0	496.9	500.8
47.5°	738.1	654.1	577.1	524.7	500.8	488.5	465.4	447.6	438.4	430.7	435.3
50°	633.3	554.7	493.1	449.2	432.2	423.8	402.2	392.9	383.7	381.4	380.6
52.5°	547.0	480.0	426.8	391.4	378.3	373.7	357.5	344.4	336.7	339.0	340.5
55°	468.4	411.4	369.8	341.3	330.5	325.1	313.6	304.3	298.9	296.6	298.2
57.5°	399.1	349.8	319.7	296.6	288.2	285.8	273.5	270.4	266.6	264.3	264.3
60°	335.9	301.2	273.5	260.4	251.2	248.9	239.6	235.8	235.0	232.7	231.1
62.5°	282.8	254.3	235.0	221.1	217.3	216.5	210.3	205.7	203.4	201.9	201.9
65°	236.5	215.7	199.5	189.5	186.5	184.9	178.0	176.4	174.9	173.4	172.6
67.5°	197.2	178.7	167.2	160.3	156.4	157.2	153.3	150.2	150.2	149.5	148.7
70°	159.5	147.9	137.9	134.1	132.5	131.0	129.4	127.1	126.4	126.4	126.4
72.5°	125.6	117.9	112.5	110.2	108.6	107.1	105.6	105.6	105.6	104.8	104.8
75°	96.3	93.2	89.4	87.1	87.1	88.6	86.3	84.0	81.7	80.1	80.9
77.5°	72.4	70.9	68.6	64.7	65.5	63.9	63.9	62.4	63.2	63.2	61.6
80°	53.2	50.9	50.1	47.8	48.5	47.8	47.0	47.0	45.5	45.5	45.5
82.5°	37.0	34.7	34.7	33.9	33.1	33.1	32.4	32.4	33.1	31.6	31.6
85°	22.3	21.6	21.6	20.0	20.0	20.0	20.0	20.8	20.0	19.3	19.3
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°	13.3	14.0	14.8	15.5	15.9	16.0	16.3	16.6	16.8	17.1	16.8
92.5°	12.7	13.4	14.2	14.9	15.3	15.3	15.3	15.3	15.3	15.3	15.3
95°	13.3	14.0	14.8	15.5	15.9	16.0	16.1	16.2	16.4	16.5	16.4
97.5°	13.1	13.7	14.4	15.0	15.3	15.4	15.5	15.6	15.8	15.9	15.8
100°	22.8	20.7	18.5	16.4	15.3	15.4	15.5	15.6	15.8	15.9	15.8
102.5°	116.0	87.6	59.1	30.7	16.5	16.5	16.5	16.5	16.5	16.5	16.5
105°	178.4	179.6	180.7	181.8	182.4	180.1	175.6	171.1	166.5	162.0	166.5
107.5°	214.3	214.9	215.6	216.2	216.5	216.8	217.3	217.8	218.3	218.8	218.3
110°	250.9	251.2	251.4	251.7	251.8	252.0	252.4	252.7	253.1	253.5	253.1

TEST NUMBER: P1013379

CATALOG NUMBER: S124RDIP-B575D590UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	286.4	286.2	286.1	286.0	285.9	286.2	286.7	287.2	287.7	288.2	287.7
115°	320.8	321.1	321.3	321.6	321.7	321.7	321.7	321.7	321.7	321.7	321.7
117.5°	356.8	356.7	356.6	356.5	356.4	356.4	356.4	356.4	356.4	356.4	356.4
120°	389.0	389.3	389.5	389.8	389.9	389.8	389.5	389.3	389.0	388.8	389.0
122.5°	421.3	421.4	421.5	421.6	421.7	421.6	421.3	421.1	420.8	420.6	420.8
125°	450.5	450.9	451.3	451.7	451.9	452.0	452.1	452.2	452.3	452.4	452.3
127.5°	481.3	481.1	481.0	480.9	480.8	480.7	480.6	480.5	480.4	480.3	480.4
130°	508.2	508.4	508.5	508.6	508.7	508.7	508.7	508.7	508.7	508.7	508.7
132.5°	534.9	535.1	535.2	535.3	535.4	535.3	535.2	535.1	534.9	534.8	534.9
135°	558.9	559.2	559.4	559.7	559.8	559.9	560.2	560.5	560.7	561.0	560.7
137.5°	582.8	583.1	583.3	583.6	583.7	583.6	583.5	583.4	583.2	583.1	583.2
140°	604.6	605.0	605.3	605.7	605.9	606.0	606.1	606.2	606.4	606.5	606.4
142.5°	624.9	625.1	625.4	625.7	625.8	625.8	625.8	625.8	625.8	625.8	625.8
145°	644.1	644.2	644.3	644.4	644.5	644.6	644.9	645.2	645.4	645.7	645.4
147.5°	661.1	661.3	661.4	661.5	661.6	661.7	661.8	661.9	662.1	662.2	662.1
150°	677.5	677.5	677.5	677.5	677.5	677.6	677.7	677.8	678.0	678.1	678.0
152.5°	691.4	691.6	691.9	692.2	692.3	692.2	692.1	692.0	691.8	691.7	691.8
155°	703.6	704.1	704.6	705.1	705.3	705.1	704.7	704.4	704.0	703.6	704.0
157.5°	714.5	715.1	715.8	716.4	716.7	716.4	715.8	715.1	714.5	713.9	714.5
160°	724.9	725.6	726.4	727.1	727.5	727.1	726.4	725.6	724.9	724.1	724.9
162.5°	733.4	734.1	734.9	735.6	736.0	735.6	734.7	733.8	733.0	732.1	733.0
165°	741.0	742.0	743.1	744.1	744.6	744.0	742.9	741.7	740.6	739.4	740.6
167.5°	746.8	748.0	749.1	750.2	750.8	750.2	748.9	747.6	746.4	745.1	746.4
170°	752.4	753.4	754.4	755.4	755.9	755.3	754.0	752.7	751.5	750.2	751.5
172.5°	755.8	756.8	757.8	758.8	759.3	758.6	757.2	755.9	754.5	753.1	754.5
175°	758.2	759.4	760.5	761.6	762.2	761.4	759.9	758.4	756.9	755.4	756.9
177.5°	759.8	760.8	761.8	762.8	763.3	762.5	761.0	759.5	758.0	756.5	758.0
180°	759.9	759.9	759.9	759.9	759.9	759.9	759.9	759.9	759.9	759.9	759.9

TEST NUMBER: P1013379

CATALOG NUMBER: S124RDIP-B575D590UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	956.1	956.1	956.1	956.1	956.1	956.1	956.1	956.1	956.1	956.1	956.1
2.5°	1027.8	1022.4	1021.6	1021.6	1013.1	1017.8	1008.5	998.5	993.9	993.9	985.4
5°	1113.3	1107.9	1102.5	1094.0	1094.0	1089.4	1074.8	1060.1	1049.4	1040.1	1030.1
7.5°	1201.1	1195.7	1180.3	1171.9	1176.5	1167.2	1148.0	1123.3	1104.8	1090.2	1069.4
10°	1296.7	1282.0	1274.3	1269.7	1253.5	1243.5	1221.2	1185.0	1161.8	1142.6	1115.6
12.5°	1374.5	1379.1	1349.8	1352.2	1336.0	1322.1	1287.4	1252.8	1218.1	1191.1	1151.1
15°	1458.5	1444.6	1426.9	1413.0	1407.6	1390.7	1361.4	1315.2	1277.4	1235.0	1189.6
17.5°	1524.7	1513.9	1497.0	1483.9	1472.3	1431.5	1406.9	1366.0	1314.4	1272.8	1217.3
20°	1581.0	1571.0	1547.1	1538.6	1517.8	1488.5	1453.1	1389.9	1343.7	1298.2	1244.3
22.5°	1604.9	1594.8	1574.0	1563.3	1550.2	1521.7	1487.8	1427.7	1370.6	1313.6	1256.6
25°	1584.8	1584.8	1574.8	1571.0	1559.4	1534.0	1499.3	1448.5	1387.6	1326.0	1258.2
27.5°	1487.8	1507.0	1513.9	1517.8	1517.8	1518.6	1494.7	1445.4	1386.1	1326.0	1255.1
30°	1347.5	1379.9	1408.4	1416.9	1431.5	1447.7	1457.7	1433.8	1380.7	1317.5	1246.6
32.5°	1171.1	1212.7	1265.9	1279.0	1299.0	1347.5	1374.5	1384.5	1355.2	1299.8	1224.3
35°	995.4	1047.8	1080.2	1120.2	1138.7	1210.4	1270.5	1306.7	1299.8	1266.6	1198.1
37.5°	842.1	872.2	911.4	953.8	990.8	1059.4	1134.1	1204.2	1232.7	1216.6	1164.9
40°	695.0	730.4	777.4	812.1	837.5	906.1	998.5	1074.8	1137.2	1147.2	1115.6
42.5°	590.9	626.4	654.9	692.6	712.7	778.9	860.6	956.1	1030.1	1069.4	1055.5
45°	510.8	532.4	555.5	577.1	601.7	660.3	735.8	840.6	923.8	979.2	984.6
47.5°	440.7	460.0	480.0	500.0	513.9	559.4	628.7	714.2	805.1	881.4	911.4
50°	391.4	400.6	415.3	426.8	443.0	482.3	537.8	611.7	708.0	790.5	829.8
52.5°	342.9	354.4	366.0	376.0	386.8	414.5	465.4	529.3	612.5	697.3	745.8
55°	302.0	311.3	322.1	329.0	335.1	359.8	398.3	447.6	519.3	599.4	659.5
57.5°	268.9	272.7	282.0	285.8	292.8	312.8	340.5	384.5	442.2	520.1	569.4
60°	232.7	240.4	247.3	250.4	255.8	269.7	288.9	329.8	379.8	436.8	493.1
62.5°	203.4	206.5	211.9	215.7	219.6	234.2	250.4	281.2	319.0	366.7	418.4
65°	176.4	178.0	181.1	186.5	188.8	199.5	208.8	231.1	266.6	302.8	354.4
67.5°	148.7	150.2	154.1	157.2	159.5	166.4	176.4	192.6	211.9	251.9	280.4
70°	127.1	127.1	129.4	131.0	133.3	136.4	141.8	154.1	171.8	197.2	223.4
72.5°	106.3	106.3	106.3	108.6	108.6	110.9	114.0	122.5	134.8	154.9	171.8
75°	82.4	83.2	84.8	84.8	85.5	88.6	90.9	93.2	99.4	112.5	127.9
77.5°	62.4	63.9	64.7	63.2	64.7	64.7	67.8	70.9	74.0	77.8	89.4
80°	46.2	47.0	45.5	46.2	46.2	47.8	49.3	48.5	50.1	54.7	57.8
82.5°	30.8	31.6	31.6	31.6	31.6	33.9	33.9	33.1	33.9	34.7	35.4
85°	19.3	18.5	18.5	19.3	18.5	18.5	19.3	20.0	19.3	20.0	20.8
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°	16.6	16.3	16.0	15.9	15.5	14.8	14.0	13.3	12.5	11.5	10.5
92.5°	15.3	15.3	15.3	15.3	14.9	14.2	13.4	12.7	11.9	10.9	9.9
95°	16.2	16.1	16.0	15.9	15.5	14.8	14.0	13.3	12.5	12.4	12.2
97.5°	15.6	15.5	15.4	15.3	15.0	14.4	13.7	13.1	12.5	25.8	39.0
100°	15.6	15.5	15.4	15.3	16.4	18.5	20.7	22.8	25.0	42.4	59.8
102.5°	16.5	16.5	16.5	16.5	30.7	59.1	87.6	116.0	144.4	142.9	141.3
105°	171.1	175.6	180.1	182.4	181.8	180.7	179.6	178.4	177.3	176.7	176.1
107.5°	217.8	217.3	216.8	216.5	216.2	215.6	214.9	214.3	213.7	212.8	211.9
110°	252.7	252.4	252.0	251.8	251.7	251.4	251.2	250.9	250.7	249.9	249.1

TEST NUMBER: P1013379

CATALOG NUMBER: S124RDIP-B575D590UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	287.2	286.7	286.2	285.9	286.0	286.1	286.2	286.4	286.5	286.2	286.0
115°	321.7	321.7	321.7	321.7	321.6	321.3	321.1	320.8	320.6	320.7	320.8
117.5°	356.4	356.4	356.4	356.4	356.5	356.6	356.7	356.8	356.9	356.5	356.1
120°	389.3	389.5	389.8	389.9	389.8	389.5	389.3	389.0	388.8	388.9	389.0
122.5°	421.1	421.3	421.6	421.7	421.6	421.5	421.4	421.3	421.2	420.9	420.7
125°	452.2	452.1	452.0	451.9	451.7	451.3	450.9	450.5	450.1	450.4	450.6
127.5°	480.5	480.6	480.7	480.8	480.9	481.0	481.1	481.3	481.4	480.8	480.2
130°	508.7	508.7	508.7	508.7	508.6	508.5	508.4	508.2	508.1	507.7	507.3
132.5°	535.1	535.2	535.3	535.4	535.3	535.2	535.1	534.9	534.8	534.3	533.8
135°	560.5	560.2	559.9	559.8	559.7	559.4	559.2	558.9	558.7	558.2	557.7
137.5°	583.4	583.5	583.6	583.7	583.6	583.3	583.1	582.8	582.6	582.0	581.3
140°	606.2	606.1	606.0	605.9	605.7	605.3	605.0	604.6	604.2	603.9	603.7
142.5°	625.8	625.8	625.8	625.8	625.7	625.4	625.1	624.9	624.6	624.5	624.4
145°	645.2	644.9	644.6	644.5	644.4	644.3	644.2	644.1	644.0	644.0	644.0
147.5°	661.9	661.8	661.7	661.6	661.5	661.4	661.3	661.1	661.0	661.1	661.3
150°	677.8	677.7	677.6	677.5	677.5	677.5	677.5	677.5	677.5	677.6	677.8
152.5°	692.0	692.1	692.2	692.3	692.2	691.9	691.6	691.4	691.1	691.4	691.6
155°	704.4	704.7	705.1	705.3	705.1	704.6	704.1	703.6	703.1	703.5	703.9
157.5°	715.1	715.8	716.4	716.7	716.4	715.8	715.1	714.5	713.9	714.4	714.9
160°	725.6	726.4	727.1	727.5	727.1	726.4	725.6	724.9	724.1	724.2	724.4
162.5°	733.8	734.7	735.6	736.0	735.6	734.9	734.1	733.4	732.6	732.7	732.9
165°	741.7	742.9	744.0	744.6	744.1	743.1	742.0	741.0	740.0	740.0	740.0
167.5°	747.6	748.9	750.2	750.8	750.2	749.1	748.0	746.8	745.7	745.8	746.0
170°	752.7	754.0	755.3	755.9	755.4	754.4	753.4	752.4	751.4	751.3	751.1
172.5°	755.9	757.2	758.6	759.3	758.8	757.8	756.8	755.8	754.8	754.7	754.5
175°	758.4	759.9	761.4	762.2	761.6	760.5	759.4	758.2	757.1	757.0	756.8
177.5°	759.5	761.0	762.5	763.3	762.8	761.8	760.8	759.8	758.8	758.5	758.3
180°	759.9	759.9	759.9	759.9	759.9	759.9	759.9	759.9	759.9	759.9	759.9

TEST NUMBER: P1013379

CATALOG NUMBER: S124RDIP-B575D590UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	956.1	956.1	956.1	956.1	956.1	956.1	956.1	956.1	956.1	956.1	956.1
2.5°	980.8	976.9	974.6	973.9	966.9	963.1	960.8	959.2	956.9	950.7	945.3
5°	1017.8	1007.0	1001.6	995.4	984.6	972.3	962.3	956.1	948.4	936.1	924.5
7.5°	1052.4	1036.3	1025.5	1017.0	998.5	978.5	962.3	949.2	934.6	917.6	901.4
10°	1088.7	1062.5	1048.6	1035.5	1008.5	982.3	959.2	940.0	919.2	896.8	879.1
12.5°	1117.2	1082.5	1067.1	1048.6	1015.5	984.6	955.4	929.2	902.2	878.3	852.9
15°	1150.3	1107.1	1089.4	1065.5	1020.1	980.0	942.3	913.8	886.0	850.6	823.6
17.5°	1169.6	1119.5	1094.0	1073.2	1023.9	975.4	931.5	896.0	863.7	828.2	799.7
20°	1188.8	1131.8	1103.3	1074.0	1015.5	963.8	917.6	875.2	841.3	802.8	773.5
22.5°	1195.0	1128.7	1098.7	1071.7	1010.1	952.3	899.1	856.0	816.7	778.2	745.0
25°	1195.0	1127.9	1092.5	1057.8	993.1	933.8	880.6	833.6	789.7	751.2	718.1
27.5°	1182.7	1112.5	1075.6	1044.0	976.9	913.0	858.3	806.7	764.3	725.8	688.0
30°	1167.2	1090.2	1053.2	1015.5	950.7	889.9	830.6	782.8	738.1	694.2	660.3
32.5°	1148.0	1066.3	1025.5	987.0	918.4	855.2	800.5	753.5	711.1	665.7	627.9
35°	1120.2	1030.9	985.4	951.5	885.3	819.8	767.4	721.1	680.3	633.3	592.5
37.5°	1084.8	998.5	952.3	910.7	842.1	782.0	732.7	688.0	648.0	604.8	559.4
40°	1043.2	953.1	913.0	869.1	796.7	739.6	693.4	653.3	613.3	572.4	528.5
42.5°	996.2	906.8	862.1	819.8	750.4	694.2	651.0	614.8	577.8	540.1	493.1
45°	940.0	856.0	812.8	772.8	705.7	648.0	608.7	574.0	542.4	503.9	462.3
47.5°	876.8	803.6	759.7	716.5	651.0	601.0	562.4	533.2	506.2	467.7	429.9
50°	815.1	742.7	707.3	663.4	603.3	556.3	517.0	492.3	471.5	433.8	399.9
52.5°	737.3	682.6	648.7	611.0	553.2	505.4	474.6	453.0	428.4	399.1	369.0
55°	668.8	617.9	590.9	555.5	498.5	456.1	429.9	409.9	390.6	364.4	340.5
57.5°	590.9	559.4	532.4	501.6	445.3	409.1	386.0	369.0	351.3	329.8	310.5
60°	509.3	494.6	468.4	443.8	396.0	364.4	345.2	329.8	312.8	295.1	278.9
62.5°	436.8	428.4	413.0	393.7	349.0	322.1	302.8	291.2	278.9	262.7	247.3
65°	368.3	364.4	349.8	335.9	305.1	281.2	264.3	257.3	243.5	231.1	217.3
67.5°	307.4	302.8	294.3	288.2	262.0	239.6	231.1	221.9	210.3	201.1	189.5
70°	245.8	245.0	239.6	231.9	218.0	201.9	193.4	187.2	175.7	168.7	160.3
72.5°	191.1	194.9	190.3	187.2	178.0	166.4	158.7	154.9	145.6	140.2	134.1
75°	142.5	145.6	147.9	142.5	140.2	134.8	127.9	124.0	119.4	111.7	109.4
77.5°	97.1	104.0	104.0	105.6	106.3	103.2	97.8	94.8	89.4	87.8	84.8
80°	63.9	70.1	70.9	72.4	74.7	74.7	70.9	70.1	64.7	63.9	61.6
82.5°	37.0	42.4	45.5	47.8	47.0	50.1	47.0	46.2	43.1	43.1	41.6
85°	20.0	20.8	22.3	23.9	25.4	27.0	27.0	26.2	25.4	24.7	23.1
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°	9.5	8.5	8.0	7.3	5.9	4.5	3.1	1.7	3.1	4.5	5.9
92.5°	8.9	7.9	7.4	7.5	7.8	8.0	8.3	8.5	8.3	8.0	7.8
95°	12.1	12.0	11.9	14.1	18.4	22.7	27.0	31.3	27.0	22.7	18.4
97.5°	52.3	65.6	72.2	70.8	68.0	65.3	62.5	59.7	62.5	65.3	68.0
100°	77.3	94.7	103.4	102.3	100.0	97.7	95.5	93.2	95.5	97.7	100.0
102.5°	139.8	138.3	137.5	136.7	135.2	133.7	132.2	130.7	132.2	133.7	135.2
105°	175.4	174.8	174.5	174.1	173.4	172.6	171.9	171.1	171.9	172.6	173.4
107.5°	211.0	210.1	209.7	209.5	209.1	208.8	208.4	208.0	208.4	208.8	209.1
110°	248.4	247.6	247.2	247.0	246.6	246.3	245.9	245.5	245.9	246.3	246.6

TEST NUMBER: P1013379

CATALOG NUMBER: S124RDIP-B575D590UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	285.7	285.4	285.3	284.9	284.2	283.4	282.7	281.9	282.7	283.4	284.2
115°	320.9	321.0	321.1	320.9	320.5	320.2	319.8	319.4	319.8	320.2	320.5
117.5°	355.8	355.4	355.2	355.0	354.5	354.0	353.5	353.0	353.5	354.0	354.5
120°	389.1	389.2	389.3	389.1	388.6	388.1	387.6	387.1	387.6	388.1	388.6
122.5°	420.4	420.1	420.0	419.9	419.6	419.4	419.1	418.9	419.1	419.4	419.6
125°	450.9	451.2	451.3	451.0	450.5	450.0	449.5	449.0	449.5	450.0	450.5
127.5°	479.5	478.9	478.6	478.5	478.4	478.3	478.1	478.0	478.1	478.3	478.4
130°	507.0	506.6	506.4	506.3	506.2	506.1	505.9	505.8	505.9	506.1	506.2
132.5°	533.3	532.8	532.6	532.5	532.2	531.9	531.7	531.4	531.7	531.9	532.2
135°	557.2	556.7	556.4	556.5	556.6	556.7	556.9	557.0	556.9	556.7	556.6
137.5°	580.7	580.0	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7
140°	603.4	603.1	603.0	602.9	602.6	602.4	602.1	601.9	602.1	602.4	602.6
142.5°	624.3	624.2	624.1	623.8	623.3	622.8	622.3	621.8	622.3	622.8	623.3
145°	644.0	644.0	644.0	643.8	643.4	643.1	642.7	642.3	642.7	643.1	643.4
147.5°	661.4	661.5	661.6	661.2	660.5	659.7	659.0	658.2	659.0	659.7	660.5
150°	677.9	678.0	678.1	677.8	677.3	676.8	676.3	675.8	676.3	676.8	677.3
152.5°	691.9	692.2	692.3	692.1	691.7	691.4	691.0	690.6	691.0	691.4	691.7
155°	704.2	704.6	704.8	704.7	704.6	704.5	704.3	704.2	704.3	704.5	704.6
157.5°	715.4	715.9	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1	716.1
160°	724.5	724.6	724.7	724.9	725.3	725.6	726.0	726.4	726.0	725.6	725.3
162.5°	733.0	733.1	733.2	733.5	734.0	734.5	735.0	735.5	735.0	734.5	734.0
165°	740.0	740.0	740.0	740.3	741.0	741.6	742.3	742.9	742.3	741.6	741.0
167.5°	746.1	746.2	746.3	746.6	747.2	747.9	748.5	749.1	748.5	747.9	747.2
170°	751.0	750.9	750.8	751.2	751.9	752.7	753.4	754.2	753.4	752.7	751.9
172.5°	754.4	754.3	754.2	754.6	755.3	756.1	756.8	757.6	756.8	756.1	755.3
175°	756.7	756.6	756.5	756.9	757.6	758.4	759.1	759.9	759.1	758.4	757.6
177.5°	758.0	757.7	757.6	758.0	758.9	759.8	760.7	761.6	760.7	759.8	758.9
180°	759.9	759.9	759.9	759.9	759.9	759.9	759.9	759.9	759.9	759.9	759.9

TEST NUMBER: P1013379

CATALOG NUMBER: S124RDIP-B575D590UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	956.1	956.1	956.1	956.1	956.1	956.1	956.1	956.1	956.1	956.1	956.1
2.5°	940.7	939.2	937.6	931.5	926.1	916.8	909.1	906.1	905.3	906.1	903.7
5°	913.8	913.0	907.6	896.8	886.8	876.0	868.3	860.6	856.0	856.0	850.6
7.5°	888.3	882.9	878.3	864.5	852.9	838.3	826.7	819.8	815.9	807.4	807.4
10°	861.4	853.7	847.5	834.4	817.5	802.8	788.2	779.7	772.8	766.6	764.3
12.5°	834.4	828.2	816.7	802.8	785.9	767.4	752.0	745.8	729.6	716.5	717.3
15°	809.0	795.1	789.7	769.7	749.7	731.9	709.6	691.9	678.8	670.3	659.5
17.5°	780.5	766.6	756.6	739.6	713.4	685.7	664.1	640.2	627.2	612.5	605.6
20°	748.9	737.3	729.6	702.7	671.1	637.9	614.1	599.4	584.8	574.0	567.8
22.5°	721.9	707.3	698.0	661.8	627.2	594.0	575.5	563.2	550.9	541.6	538.5
25°	687.2	678.8	656.4	624.8	582.5	560.1	543.9	527.8	520.8	514.7	507.7
27.5°	658.7	637.9	622.5	580.9	554.7	529.3	513.1	500.8	492.3	486.2	480.8
30°	623.3	604.0	582.5	547.8	523.9	500.0	485.4	475.4	466.1	462.3	457.7
32.5°	586.3	568.6	547.8	520.1	490.8	472.3	460.7	449.9	443.8	439.9	434.5
35°	553.2	530.8	517.0	490.8	466.9	446.1	435.3	426.1	419.1	417.6	416.8
37.5°	517.7	500.8	487.7	460.7	440.7	423.0	413.0	402.9	399.1	398.3	395.2
40°	486.9	472.3	460.0	434.5	413.0	396.8	389.1	382.9	379.1	379.1	378.3
42.5°	460.0	444.6	432.2	409.1	389.9	375.2	366.7	360.6	359.0	359.8	359.0
45°	429.9	416.8	404.5	380.6	364.4	353.6	344.4	341.3	339.0	339.8	340.5
47.5°	401.4	390.6	378.3	359.0	340.5	329.0	323.6	320.5	320.5	320.5	322.1
50°	376.0	363.7	352.9	332.8	315.9	306.6	302.0	298.2	298.9	299.7	300.5
52.5°	345.9	335.1	327.4	307.4	295.1	283.5	278.1	278.9	278.1	278.1	279.7
55°	319.7	309.0	301.2	282.8	270.4	262.7	258.1	255.8	256.6	255.0	258.1
57.5°	290.5	281.2	275.8	258.1	247.3	240.4	236.5	232.7	234.2	233.4	232.7
60°	265.0	254.3	245.8	233.4	224.2	215.7	213.4	209.6	211.1	209.6	208.8
62.5°	235.8	227.3	221.1	208.8	201.1	194.2	188.8	186.5	185.7	183.4	181.1
65°	206.5	201.9	195.7	183.4	175.7	170.3	167.2	164.9	164.1	157.9	151.0
67.5°	179.5	176.4	170.3	161.0	154.1	148.7	144.1	140.2	135.6	131.0	127.1
70°	154.1	149.5	145.6	137.1	131.0	125.6	121.0	116.3	114.0	109.4	107.9
72.5°	129.4	124.8	121.0	113.3	107.9	102.5	100.9	95.5	93.2	92.5	92.5
75°	104.0	100.2	97.8	90.9	86.3	82.4	80.1	78.6	77.0	75.5	73.2
77.5°	79.4	77.0	75.5	70.9	67.0	64.7	63.9	58.6	57.0	55.5	53.9
80°	57.8	57.0	55.5	51.6	50.1	44.7	44.7	43.1	42.4	42.4	42.4
82.5°	39.3	37.8	37.0	33.1	32.4	31.6	30.8	30.0	30.8	30.0	30.8
85°	20.8	20.0	19.3	19.3	19.3	19.3	19.3	19.3	19.3	18.5	19.3
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°	7.3	8.0	8.5	9.5	10.5	11.5	12.5	13.3	14.0	14.8	15.5
92.5°	7.5	7.4	7.9	8.9	9.9	10.9	11.9	12.7	13.4	14.2	14.9
95°	14.1	11.9	12.0	12.1	12.2	12.4	12.5	13.3	14.0	14.8	15.5
97.5°	70.8	72.2	65.6	52.3	39.0	25.8	12.5	13.1	13.7	14.4	15.0
100°	102.3	103.4	94.7	77.3	59.8	42.4	25.0	22.8	20.7	18.5	16.4
102.5°	136.7	137.5	138.3	139.8	141.3	142.9	144.4	116.0	87.6	59.1	30.7
105°	174.1	174.5	174.8	175.4	176.1	176.7	177.3	178.4	179.6	180.7	181.8
107.5°	209.5	209.7	210.1	211.0	211.9	212.8	213.7	214.3	214.9	215.6	216.2
110°	247.0	247.2	247.6	248.4	249.1	249.9	250.7	250.9	251.2	251.4	251.7

TEST NUMBER: P1013379

CATALOG NUMBER: S124RDIP-B575D590UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	284.9	285.3	285.4	285.7	286.0	286.2	286.5	286.4	286.2	286.1	286.0
115°	320.9	321.1	321.0	320.9	320.8	320.7	320.6	320.8	321.1	321.3	321.6
117.5°	355.0	355.2	355.4	355.8	356.1	356.5	356.9	356.8	356.7	356.6	356.5
120°	389.1	389.3	389.2	389.1	389.0	388.9	388.8	389.0	389.3	389.5	389.8
122.5°	419.9	420.0	420.1	420.4	420.7	420.9	421.2	421.3	421.4	421.5	421.6
125°	451.0	451.3	451.2	450.9	450.6	450.4	450.1	450.5	450.9	451.3	451.7
127.5°	478.5	478.6	478.9	479.5	480.2	480.8	481.4	481.3	481.1	481.0	480.9
130°	506.3	506.4	506.6	507.0	507.3	507.7	508.1	508.2	508.4	508.5	508.6
132.5°	532.5	532.6	532.8	533.3	533.8	534.3	534.8	534.9	535.1	535.2	535.3
135°	556.5	556.4	556.7	557.2	557.7	558.2	558.7	558.9	559.2	559.4	559.7
137.5°	579.7	579.7	580.0	580.7	581.3	582.0	582.6	582.8	583.1	583.3	583.6
140°	602.9	603.0	603.1	603.4	603.7	603.9	604.2	604.6	605.0	605.3	605.7
142.5°	623.8	624.1	624.2	624.3	624.4	624.5	624.6	624.9	625.1	625.4	625.7
145°	643.8	644.0	644.0	644.0	644.0	644.0	644.0	644.1	644.2	644.3	644.4
147.5°	661.2	661.6	661.5	661.4	661.3	661.1	661.0	661.1	661.3	661.4	661.5
150°	677.8	678.1	678.0	677.9	677.8	677.6	677.5	677.5	677.5	677.5	677.5
152.5°	692.1	692.3	692.2	691.9	691.6	691.4	691.1	691.4	691.6	691.9	692.2
155°	704.7	704.8	704.6	704.2	703.9	703.5	703.1	703.6	704.1	704.6	705.1
157.5°	716.1	716.1	715.9	715.4	714.9	714.4	713.9	714.5	715.1	715.8	716.4
160°	724.9	724.7	724.6	724.5	724.4	724.2	724.1	724.9	725.6	726.4	727.1
162.5°	733.5	733.2	733.1	733.0	732.9	732.7	732.6	733.4	734.1	734.9	735.6
165°	740.3	740.0	740.0	740.0	740.0	740.0	740.0	741.0	742.0	743.1	744.1
167.5°	746.6	746.3	746.2	746.1	746.0	745.8	745.7	746.8	748.0	749.1	750.2
170°	751.2	750.8	750.9	751.0	751.1	751.3	751.4	752.4	753.4	754.4	755.4
172.5°	754.6	754.2	754.3	754.4	754.5	754.7	754.8	755.8	756.8	757.8	758.8
175°	756.9	756.5	756.6	756.7	756.8	757.0	757.1	758.2	759.4	760.5	761.6
177.5°	758.0	757.6	757.7	758.0	758.3	758.5	758.8	759.8	760.8	761.8	762.8
180°	759.9	759.9	759.9	759.9	759.9	759.9	759.9	759.9	759.9	759.9	759.9

TEST NUMBER: P1013379

CATALOG NUMBER: S124RDIP-B575D590UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	956.1	956.1	956.1	956.1	956.1	956.1	956.1	956.1	956.1	956.1	956.1
2.5°	903.7	906.8	903.0	905.3	899.9	899.1	899.9	899.9	900.7	901.4	902.2
5°	852.9	852.1	847.5	844.4	842.1	844.4	846.0	847.5	846.0	847.5	848.3
7.5°	805.1	802.8	800.5	795.1	796.7	795.1	799.7	797.4	797.4	801.3	804.4
10°	762.8	758.1	756.6	750.4	745.8	745.0	750.4	752.7	755.0	756.6	762.8
12.5°	708.0	701.1	695.7	698.0	684.9	690.3	691.9	688.8	698.0	708.8	702.7
15°	649.5	650.3	639.5	635.6	624.8	627.9	628.7	636.4	644.1	643.3	652.6
17.5°	606.3	601.7	592.5	591.7	587.1	589.4	588.6	594.8	592.5	596.3	604.0
20°	566.3	563.2	555.5	552.4	554.0	552.4	553.2	554.0	556.3	564.7	563.2
22.5°	534.7	530.8	530.8	527.0	522.4	520.8	524.7	527.0	530.1	531.6	535.5
25°	507.0	503.9	500.0	497.7	493.9	494.6	496.9	500.0	502.3	505.4	508.5
27.5°	478.5	478.5	474.6	473.8	472.3	471.5	474.6	476.1	476.1	478.5	481.5
30°	456.1	456.1	452.3	451.5	450.7	450.7	453.0	453.8	454.6	456.9	458.4
32.5°	434.5	433.8	432.2	433.0	432.2	433.0	433.0	433.8	435.3	436.1	439.2
35°	414.5	415.3	413.7	413.7	413.0	413.7	415.3	416.0	416.8	418.4	418.4
37.5°	395.2	396.8	396.0	398.3	398.3	398.3	398.3	399.9	399.9	399.9	399.1
40°	378.3	378.3	377.5	379.1	380.6	380.6	381.4	381.4	382.1	382.1	381.4
42.5°	359.0	360.6	362.9	363.7	365.2	364.4	366.7	366.0	366.7	365.2	363.7
45°	341.3	341.3	344.4	347.5	348.2	348.2	348.2	349.8	348.2	345.9	345.2
47.5°	322.1	323.6	325.1	329.0	329.8	329.8	329.8	329.8	328.2	328.2	328.2
50°	302.8	303.6	304.3	305.9	308.2	307.4	307.4	307.4	310.5	307.4	308.2
52.5°	279.7	280.4	281.2	284.3	283.5	283.5	284.3	284.3	286.6	285.8	284.3
55°	256.6	256.6	258.1	258.1	258.1	259.6	260.4	262.0	261.2	262.0	262.7
57.5°	233.4	231.9	231.1	231.1	233.4	232.7	233.4	233.4	236.5	238.1	238.8
60°	206.5	206.5	205.7	201.1	201.1	200.3	202.6	204.2	205.7	212.6	211.9
62.5°	178.7	175.7	172.6	173.4	168.7	171.0	169.5	171.0	175.7	181.1	181.8
65°	151.0	148.7	145.6	144.8	143.3	145.6	144.8	145.6	147.9	151.0	154.9
67.5°	126.4	125.6	124.0	123.3	123.3	123.3	124.8	124.8	125.6	127.9	130.2
70°	107.9	107.1	107.9	106.3	107.1	106.3	107.1	107.9	108.6	109.4	111.7
72.5°	90.9	90.9	90.9	89.4	90.9	90.1	90.1	90.9	91.7	92.5	94.0
75°	72.4	70.9	69.3	67.8	67.0	68.6	69.3	68.6	70.9	74.0	74.0
77.5°	54.7	53.9	53.9	53.9	54.7	53.9	55.5	54.7	55.5	55.5	57.0
80°	42.4	41.6	42.4	42.4	41.6	43.1	42.4	42.4	43.1	43.9	43.1
82.5°	30.8	31.6	30.8	30.8	30.8	32.4	30.8	30.8	30.8	31.6	31.6
85°	19.3	19.3	19.3	19.3	20.0	19.3	20.0	19.3	20.8	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°	15.9	16.0	16.3	16.6	16.8	17.1	16.8	16.6	16.3	16.0	15.9
92.5°	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3
95°	15.9	16.0	16.1	16.2	16.4	16.5	16.4	16.2	16.1	16.0	15.9
97.5°	15.3	15.4	15.5	15.6	15.8	15.9	15.8	15.6	15.5	15.4	15.3
100°	15.3	15.4	15.5	15.6	15.8	15.9	15.8	15.6	15.5	15.4	15.3
102.5°	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5
105°	182.4	180.1	175.6	171.1	166.5	162.0	166.5	171.1	175.6	180.1	182.4
107.5°	216.5	216.8	217.3	217.8	218.3	218.8	218.3	217.8	217.3	216.8	216.5
110°	251.8	252.0	252.4	252.7	253.1	253.5	253.1	252.7	252.4	252.0	251.8

TEST NUMBER: P1013379

CATALOG NUMBER: S124RDIP-B575D590UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	285.9	286.2	286.7	287.2	287.7	288.2	287.7	287.2	286.7	286.2	285.9
115°	321.7	321.7	321.7	321.7	321.7	321.7	321.7	321.7	321.7	321.7	321.7
117.5°	356.4	356.4	356.4	356.4	356.4	356.4	356.4	356.4	356.4	356.4	356.4
120°	389.9	389.8	389.5	389.3	389.0	388.8	389.0	389.3	389.5	389.8	389.9
122.5°	421.7	421.6	421.3	421.1	420.8	420.6	420.8	421.1	421.3	421.6	421.7
125°	451.9	452.0	452.1	452.2	452.3	452.4	452.3	452.2	452.1	452.0	451.9
127.5°	480.8	480.7	480.6	480.5	480.4	480.3	480.4	480.5	480.6	480.7	480.8
130°	508.7	508.7	508.7	508.7	508.7	508.7	508.7	508.7	508.7	508.7	508.7
132.5°	535.4	535.3	535.2	535.1	534.9	534.8	534.9	535.1	535.2	535.3	535.4
135°	559.8	559.9	560.2	560.5	560.7	561.0	560.7	560.5	560.2	559.9	559.8
137.5°	583.7	583.6	583.5	583.4	583.2	583.1	583.2	583.4	583.5	583.6	583.7
140°	605.9	606.0	606.1	606.2	606.4	606.5	606.4	606.2	606.1	606.0	605.9
142.5°	625.8	625.8	625.8	625.8	625.8	625.8	625.8	625.8	625.8	625.8	625.8
145°	644.5	644.6	644.9	645.2	645.4	645.7	645.4	645.2	644.9	644.6	644.5
147.5°	661.6	661.7	661.8	661.9	662.1	662.2	662.1	661.9	661.8	661.7	661.6
150°	677.5	677.6	677.7	677.8	678.0	678.1	678.0	677.8	677.7	677.6	677.5
152.5°	692.3	692.2	692.1	692.0	691.8	691.7	691.8	692.0	692.1	692.2	692.3
155°	705.3	705.1	704.7	704.4	704.0	703.6	704.0	704.4	704.7	705.1	705.3
157.5°	716.7	716.4	715.8	715.1	714.5	713.9	714.5	715.1	715.8	716.4	716.7
160°	727.5	727.1	726.4	725.6	724.9	724.1	724.9	725.6	726.4	727.1	727.5
162.5°	736.0	735.6	734.7	733.8	733.0	732.1	733.0	733.8	734.7	735.6	736.0
165°	744.6	744.0	742.9	741.7	740.6	739.4	740.6	741.7	742.9	744.0	744.6
167.5°	750.8	750.2	748.9	747.6	746.4	745.1	746.4	747.6	748.9	750.2	750.8
170°	755.9	755.3	754.0	752.7	751.5	750.2	751.5	752.7	754.0	755.3	755.9
172.5°	759.3	758.6	757.2	755.9	754.5	753.1	754.5	755.9	757.2	758.6	759.3
175°	762.2	761.4	759.9	758.4	756.9	755.4	756.9	758.4	759.9	761.4	762.2
177.5°	763.3	762.5	761.0	759.5	758.0	756.5	758.0	759.5	761.0	762.5	763.3
180°	759.9	759.9	759.9	759.9	759.9	759.9	759.9	759.9	759.9	759.9	759.9

TEST NUMBER: P1013379

CATALOG NUMBER: S124RDIP-B575D590UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	956.1	956.1	956.1	956.1	956.1	956.1	956.1	956.1	956.1	956.1	956.1
2.5°	905.3	909.1	907.6	902.2	904.5	909.1	913.8	919.9	923.8	926.9	928.4
5°	852.1	859.1	857.5	857.5	860.6	868.3	876.0	889.1	893.7	899.1	906.8
7.5°	805.1	810.5	815.1	816.7	821.3	831.3	841.3	856.0	867.5	873.7	878.3
10°	763.5	767.4	774.3	778.2	782.8	795.1	809.7	825.2	836.7	847.5	853.7
12.5°	710.4	725.8	735.0	741.2	747.3	765.8	777.4	794.3	808.2	818.2	827.5
15°	651.0	669.5	674.9	698.8	714.2	728.9	746.6	766.6	779.7	791.3	803.6
17.5°	601.0	614.1	620.2	645.6	658.7	681.9	707.3	732.7	752.7	761.2	773.5
20°	569.4	576.3	588.6	597.1	611.0	637.9	665.7	696.5	726.5	735.0	747.3
22.5°	537.0	546.3	554.7	566.3	577.1	595.6	623.3	657.2	689.6	705.0	719.6
25°	507.7	517.0	522.4	534.7	544.7	563.2	582.5	617.1	655.7	668.8	691.9
27.5°	484.6	490.0	499.3	504.6	516.2	533.2	550.9	577.1	614.8	637.2	659.5
30°	461.5	465.4	473.1	480.8	489.2	500.8	520.8	546.3	580.9	600.2	622.5
32.5°	438.4	444.6	449.2	454.6	463.8	477.7	491.6	516.2	543.9	565.5	587.9
35°	419.1	421.4	427.6	433.8	439.9	452.3	466.9	490.8	515.4	532.4	552.4
37.5°	398.3	402.2	406.8	409.1	419.1	426.8	442.2	460.7	490.0	500.8	520.8
40°	382.1	381.4	386.0	389.9	394.5	406.8	416.0	436.1	459.2	476.1	488.5
42.5°	362.1	362.1	363.7	368.3	374.4	382.1	392.9	409.9	433.8	446.1	460.7
45°	345.9	343.6	344.4	347.5	351.3	359.0	369.8	384.5	408.3	418.4	433.8
47.5°	326.7	324.4	324.4	327.4	330.5	335.9	344.4	361.3	380.6	393.7	405.3
50°	305.1	305.9	305.1	307.4	309.0	314.3	323.6	337.5	355.2	366.0	379.1
52.5°	285.1	283.5	282.8	284.3	287.4	291.2	301.2	313.6	330.5	341.3	352.9
55°	260.4	262.0	262.0	262.0	266.6	268.1	275.8	288.2	305.1	313.6	324.4
57.5°	238.1	237.3	238.8	238.1	241.9	247.3	253.5	262.7	279.7	288.2	298.2
60°	213.4	214.2	215.0	215.0	218.0	223.4	230.4	238.8	252.7	261.2	270.4
62.5°	183.4	187.2	191.1	192.6	197.2	201.1	205.7	215.0	227.3	233.4	241.9
65°	154.9	160.3	165.6	169.5	172.6	176.4	182.6	191.1	201.1	207.3	215.7
67.5°	130.2	134.1	141.0	144.8	151.0	155.6	159.5	166.4	178.7	181.1	188.0
70°	112.5	114.0	117.1	120.2	127.1	131.0	135.6	142.5	151.8	157.2	161.0
72.5°	94.8	95.5	97.1	100.2	103.2	107.9	113.3	119.4	127.9	130.2	135.6
75°	75.5	80.1	80.1	82.4	84.8	87.1	91.7	97.8	103.2	107.1	110.2
77.5°	56.2	58.6	60.1	63.9	67.0	69.3	72.4	77.0	80.1	83.2	85.5
80°	43.9	44.7	45.5	45.5	47.0	50.1	53.2	56.2	60.1	61.6	63.9
82.5°	32.4	32.4	32.4	33.9	34.7	35.4	35.4	37.0	40.8	42.4	44.7
85°	20.8	20.8	20.8	20.8	21.6	22.3	23.1	23.9	23.9	23.9	25.4
87.5°	8.5	10.0	9.2	10.0	10.0	10.0	10.0	10.8	10.8	11.6	11.6
90°	15.5	14.8	14.0	13.3	12.5	11.5	10.5	9.5	8.5	8.0	7.3
92.5°	14.9	14.2	13.4	12.7	11.9	10.9	9.9	8.9	7.9	7.4	7.5
95°	15.5	14.8	14.0	13.3	12.5	12.4	12.2	12.1	12.0	11.9	14.1
97.5°	15.0	14.4	13.7	13.1	12.5	25.8	39.0	52.3	65.6	72.2	70.8
100°	16.4	18.5	20.7	22.8	25.0	42.4	59.8	77.3	94.7	103.4	102.3
102.5°	30.7	59.1	87.6	116.0	144.4	142.9	141.3	139.8	138.3	137.5	136.7
105°	181.8	180.7	179.6	178.4	177.3	176.7	176.1	175.4	174.8	174.5	174.1
107.5°	216.2	215.6	214.9	214.3	213.7	212.8	211.9	211.0	210.1	209.7	209.5
110°	251.7	251.4	251.2	250.9	250.7	249.9	249.1	248.4	247.6	247.2	247.0

TEST NUMBER: P1013379

CATALOG NUMBER: S124RDIP-B575D590UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	286.0	286.1	286.2	286.4	286.5	286.2	286.0	285.7	285.4	285.3	284.9
115°	321.6	321.3	321.1	320.8	320.6	320.7	320.8	320.9	321.0	321.1	320.9
117.5°	356.5	356.6	356.7	356.8	356.9	356.5	356.1	355.8	355.4	355.2	355.0
120°	389.8	389.5	389.3	389.0	388.8	388.9	389.0	389.1	389.2	389.3	389.1
122.5°	421.6	421.5	421.4	421.3	421.2	420.9	420.7	420.4	420.1	420.0	419.9
125°	451.7	451.3	450.9	450.5	450.1	450.4	450.6	450.9	451.2	451.3	451.0
127.5°	480.9	481.0	481.1	481.3	481.4	480.8	480.2	479.5	478.9	478.6	478.5
130°	508.6	508.5	508.4	508.2	508.1	507.7	507.3	507.0	506.6	506.4	506.3
132.5°	535.3	535.2	535.1	534.9	534.8	534.3	533.8	533.3	532.8	532.6	532.5
135°	559.7	559.4	559.2	558.9	558.7	558.2	557.7	557.2	556.7	556.4	556.5
137.5°	583.6	583.3	583.1	582.8	582.6	582.0	581.3	580.7	580.0	579.7	579.7
140°	605.7	605.3	605.0	604.6	604.2	603.9	603.7	603.4	603.1	603.0	602.9
142.5°	625.7	625.4	625.1	624.9	624.6	624.5	624.4	624.3	624.2	624.1	623.8
145°	644.4	644.3	644.2	644.1	644.0	644.0	644.0	644.0	644.0	644.0	643.8
147.5°	661.5	661.4	661.3	661.1	661.0	661.1	661.3	661.4	661.5	661.6	661.2
150°	677.5	677.5	677.5	677.5	677.5	677.6	677.8	677.9	678.0	678.1	677.8
152.5°	692.2	691.9	691.6	691.4	691.1	691.4	691.6	691.9	692.2	692.3	692.1
155°	705.1	704.6	704.1	703.6	703.1	703.5	703.9	704.2	704.6	704.8	704.7
157.5°	716.4	715.8	715.1	714.5	713.9	714.4	714.9	715.4	715.9	716.1	716.1
160°	727.1	726.4	725.6	724.9	724.1	724.2	724.4	724.5	724.6	724.7	724.9
162.5°	735.6	734.9	734.1	733.4	732.6	732.7	732.9	733.0	733.1	733.2	733.5
165°	744.1	743.1	742.0	741.0	740.0	740.0	740.0	740.0	740.0	740.0	740.3
167.5°	750.2	749.1	748.0	746.8	745.7	745.8	746.0	746.1	746.2	746.3	746.6
170°	755.4	754.4	753.4	752.4	751.4	751.3	751.1	751.0	750.9	750.8	751.2
172.5°	758.8	757.8	756.8	755.8	754.8	754.7	754.5	754.4	754.3	754.2	754.6
175°	761.6	760.5	759.4	758.2	757.1	757.0	756.8	756.7	756.6	756.5	756.9
177.5°	762.8	761.8	760.8	759.8	758.8	758.5	758.3	758.0	757.7	757.6	758.0
180°	759.9	759.9	759.9	759.9	759.9	759.9	759.9	759.9	759.9	759.9	759.9

TEST NUMBER: P1013379

CATALOG NUMBER: S124RDIP-B575D590UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	956.1	956.1	956.1	956.1
2.5°	934.6	939.2	946.9	957.7
5°	913.0	926.1	938.4	954.6
7.5°	893.7	909.1	926.1	949.2
10°	871.4	890.6	912.2	940.7
12.5°	845.2	872.2	896.8	927.6
15°	825.9	846.0	877.5	913.8
17.5°	799.0	825.9	857.5	898.4
20°	773.5	802.0	837.5	879.9
22.5°	746.6	778.9	814.4	859.8
25°	718.8	753.5	788.9	837.5
27.5°	693.4	725.0	765.1	814.4
30°	662.6	698.8	737.3	788.9
32.5°	632.5	670.3	709.6	761.2
35°	600.2	637.9	681.1	730.4
37.5°	568.6	610.2	649.5	697.3
40°	533.9	577.1	617.9	666.4
42.5°	500.0	544.7	585.5	627.2
45°	468.4	512.4	549.3	588.6
47.5°	438.4	477.7	515.4	550.9
50°	409.1	442.2	476.9	506.2
52.5°	378.3	409.9	437.6	463.8
55°	350.6	375.2	399.9	423.8
57.5°	317.4	342.1	363.7	382.1
60°	289.7	305.1	325.9	345.2
62.5°	258.1	275.8	292.0	304.3
65°	227.3	242.7	255.0	265.8
67.5°	201.1	210.3	219.6	231.1
70°	169.5	177.2	188.0	196.5
72.5°	142.5	148.7	154.1	164.1
75°	115.6	121.0	124.0	133.3
77.5°	89.4	94.8	97.1	102.5
80°	68.6	69.3	72.4	77.0
82.5°	47.0	48.5	49.3	53.2
85°	27.0	30.8	30.0	31.6
87.5°	11.6	12.3	13.9	15.4
90°	5.9	4.5	3.1	1.7
92.5°	7.8	8.0	8.3	8.5
95°	18.4	22.7	27.0	31.3
97.5°	68.0	65.3	62.5	59.7
100°	100.0	97.7	95.5	93.2
102.5°	135.2	133.7	132.2	130.7
105°	173.4	172.6	171.9	171.1
107.5°	209.1	208.8	208.4	208.0
110°	246.6	246.3	245.9	245.5



TEST NUMBER: P1013379

CATALOG NUMBER: S124RDIP-B575D590UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	284.2	283.4	282.7	281.9
115°	320.5	320.2	319.8	319.4
117.5°	354.5	354.0	353.5	353.0
120°	388.6	388.1	387.6	387.1
122.5°	419.6	419.4	419.1	418.9
125°	450.5	450.0	449.5	449.0
127.5°	478.4	478.3	478.1	478.0
130°	506.2	506.1	505.9	505.8
132.5°	532.2	531.9	531.7	531.4
135°	556.6	556.7	556.9	557.0
137.5°	579.7	579.7	579.7	579.7
140°	602.6	602.4	602.1	601.9
142.5°	623.3	622.8	622.3	621.8
145°	643.4	643.1	642.7	642.3
147.5°	660.5	659.7	659.0	658.2
150°	677.3	676.8	676.3	675.8
152.5°	691.7	691.4	691.0	690.6
155°	704.6	704.5	704.3	704.2
157.5°	716.1	716.1	716.1	716.1
160°	725.3	725.6	726.0	726.4
162.5°	734.0	734.5	735.0	735.5
165°	741.0	741.6	742.3	742.9
167.5°	747.2	747.9	748.5	749.1
170°	751.9	752.7	753.4	754.2
172.5°	755.3	756.1	756.8	757.6
175°	757.6	758.4	759.1	759.9
177.5°	758.9	759.8	760.7	761.6
180°	759.9	759.9	759.9	759.9

(END OF REPORT)