

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: P1029515

Luminaire Tested: S122DIW-B485D435UB2750-4F0-XX-W2A-A_3500K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029515
REPORT IS A COMBINATION OF REPORTS P986119 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B485D435UB2750-4F0-XX-W2A-A_3500K
Description: Define 2 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

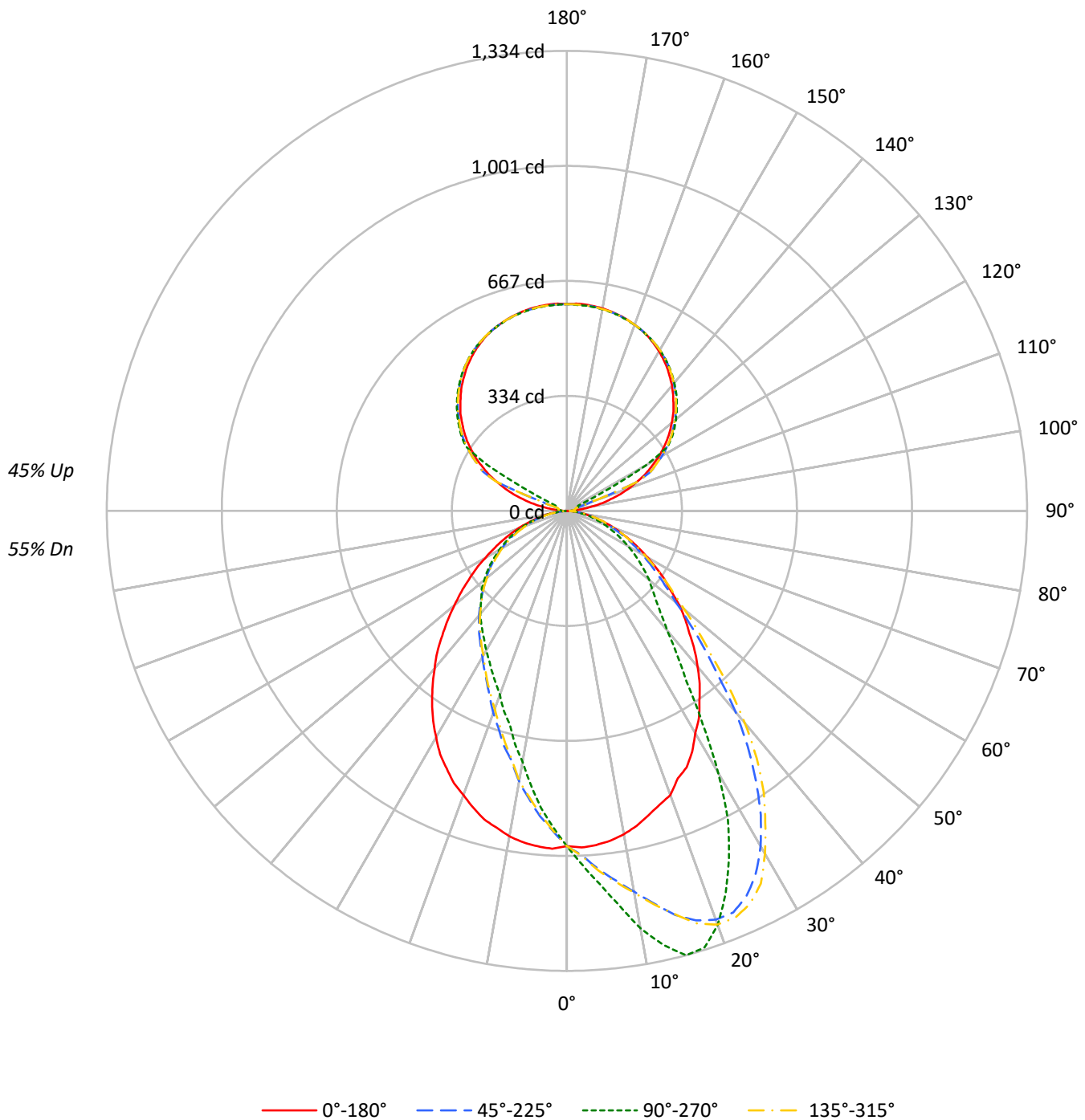
Lumens per Lamp: N/A
Luminaire Lumens: 3903.0 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.23
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61
1	99	95	92	88	92	89	85	83	76	74	72	65	63	62	54	53	52
2	91	84	78	73	84	78	73	69	67	64	60	58	55	52	49	47	45
3	83	74	67	61	77	69	63	58	60	55	51	51	48	45	44	41	39
4	77	66	58	52	71	62	55	50	54	48	44	46	42	39	39	36	34
5	70	59	51	45	65	55	48	43	48	43	39	42	38	34	36	32	30
6	65	53	45	40	60	50	43	38	44	38	34	38	34	30	33	29	27
7	60	48	41	35	56	45	38	33	40	34	30	35	30	27	30	26	24
8	56	44	36	31	52	41	35	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	29	24	31	26	22	27	23	20	24	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15383	15383	15383	15383
5°	15419	16401	15478	13049
10°	15240	17905	15336	10758
15°	14871	18885	15077	9062
20°	14638	17732	14638	7877
25°	14172	15233	14236	7044
30°	13404	11974	13659	6380
35°	12724	8280	12937	5837
40°	11943	6252	12079	5404
45°	10979	5138	11158	4937
50°	10147	4510	10163	4520
55°	9196	3842	9254	4066
60°	8181	3210	8296	3549
65°	7277	2610	7408	3031
70°	6370	2049	6535	2445
75°	5348	1487	5555	1772
80°	4176	942	4471	1051
85°	2740	475	2952	350

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°

Vertical Angle: 45°

Luminance: 15901 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.6	2.4
10°-20°	269.4	6.9
20°-30°	391.0	10.0
30°-40°	412.2	10.6
40°-50°	364.7	9.3
50°-60°	291.2	7.5
60°-70°	197.8	5.1
70°-80°	101.2	2.6
80°-90°	25.0	0.6
90°-100°	19.8	0.5
100°-110°	73.7	1.9
110°-120°	195.5	5.0
120°-130°	324.2	8.3
130°-140°	344.4	8.8
140°-150°	320.1	8.2
150°-160°	257.3	6.6
160°-170°	165.8	4.2
170°-180°	57.1	1.5
0°-30°	752.9	19.3
0°-40°	1165.1	29.9
0°-60°	1821.1	46.7
0°-90°	2145.1	55.0
90°-120°	289.0	7.4
90°-150°	1277.7	32.7
90°-180°	1758.0	45.0
0°-180°	3903.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	972	972	972	972	972	
5°	972	1085	976	864	972	92
15°	914	1334	926	640	914	258
25°	821	1111	825	514	821	375
35°	670	605	681	426	670	419
45°	503	364	511	350	503	390
55°	345	256	347	271	345	308
65°	205	158	208	183	205	203
75°	96	78	99	93	96	103
85°	19	20	21	15	19	23
90°	0	12	0	12	0	3
95°	28	19	28	19	28	33
105°	132	33	132	33	132	141
115°	250	36	250	36	250	246
125°	353	371	353	371	353	315
135°	436	451	436	451	436	337
145°	506	514	506	514	506	317
155°	558	558	558	558	558	257
165°	588	586	588	586	588	166
175°	601	598	601	598	601	57
180°	600	600	600	600	600	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8
2.5°	977.0	979.2	983.0	983.7	991.2	997.2	1003.9	1003.9	1006.1	1005.4	999.4
5°	972.5	979.2	988.9	997.2	1010.6	1016.6	1025.5	1032.3	1038.2	1042.7	1042.0
7.5°	965.0	977.0	991.2	1006.9	1024.8	1035.3	1047.9	1059.9	1068.1	1075.6	1080.8
10°	952.3	972.5	991.9	1012.8	1036.0	1050.2	1065.1	1080.8	1093.5	1107.7	1121.1
12.5°	935.2	964.3	988.2	1015.8	1044.2	1059.9	1083.8	1095.8	1120.4	1156.3	1166.0
15°	913.5	953.1	975.5	1010.6	1047.9	1060.6	1093.5	1112.9	1163.7	1186.1	1213.0
17.5°	893.3	937.4	967.3	1007.6	1044.2	1068.9	1101.0	1140.6	1183.1	1215.3	1245.1
20°	876.9	919.5	955.3	1000.1	1046.5	1077.8	1111.4	1159.2	1205.6	1238.4	1261.6
22.5°	839.6	894.1	935.9	986.0	1042.0	1085.3	1117.4	1169.7	1219.7	1239.9	1260.1
25°	820.9	867.9	916.5	973.3	1039.0	1090.5	1118.2	1176.4	1220.5	1228.0	1232.4
27.5°	786.5	839.6	896.3	961.3	1038.2	1081.6	1116.7	1169.7	1204.8	1199.6	1186.1
30°	743.9	808.9	871.7	941.9	1027.8	1074.8	1107.7	1156.3	1174.2	1147.3	1123.4
32.5°	712.6	773.8	843.3	924.7	1015.8	1060.6	1092.8	1130.9	1134.6	1086.0	1045.7
35°	670.0	738.0	816.4	902.3	995.7	1036.0	1065.9	1089.0	1071.1	1003.1	955.3
37.5°	631.9	699.1	782.8	870.2	968.0	1007.6	1031.5	1035.3	991.2	931.4	861.2
40°	590.1	659.5	746.9	838.8	937.4	971.8	986.7	975.5	912.0	842.5	761.1
42.5°	548.2	617.0	711.1	805.2	898.6	927.7	933.7	903.0	825.4	743.9	649.8
45°	502.7	574.4	668.5	763.4	853.7	870.2	870.9	826.9	735.0	649.8	562.4
47.5°	465.3	531.8	625.2	720.0	796.2	807.4	803.0	752.2	652.1	556.5	480.3
50°	424.3	487.7	580.4	673.7	738.7	741.7	730.5	658.0	560.2	472.8	412.3
52.5°	380.2	444.4	529.6	619.2	677.5	673.0	651.3	573.6	481.8	409.3	363.0
55°	345.1	401.9	481.8	569.2	610.2	597.5	573.6	494.5	422.0	360.8	320.4
57.5°	306.2	356.3	434.7	510.9	534.8	522.9	499.0	425.0	357.8	311.5	284.6
60°	269.6	315.2	383.9	447.4	466.1	453.4	425.8	359.3	310.7	271.9	251.7
62.5°	236.0	275.6	333.1	391.4	398.9	386.2	362.3	308.5	266.7	236.0	221.1
65°	204.7	242.0	288.3	332.4	339.1	325.7	301.0	262.2	227.1	207.6	193.5
67.5°	174.0	203.9	245.0	277.1	280.8	268.1	248.0	216.6	194.9	174.0	163.6
70°	147.1	169.6	201.7	227.8	229.3	217.4	206.9	178.5	162.1	147.1	138.9
72.5°	121.0	136.7	161.3	180.8	181.5	174.0	164.3	146.4	132.2	121.8	113.5
75°	95.6	109.1	124.0	141.2	140.4	134.4	127.0	115.8	103.8	97.1	93.4
77.5°	73.2	81.4	93.4	104.6	104.6	101.6	97.1	88.9	81.4	74.7	71.0
80°	52.3	57.5	67.2	71.0	72.5	71.7	68.0	62.0	59.0	53.8	52.3
82.5°	33.6	37.3	41.8	45.6	47.8	46.3	45.6	42.6	38.1	36.6	35.1
85°	19.4	20.9	23.2	25.4	26.1	25.4	26.9	24.6	22.4	22.4	21.7
87.5°	8.2	9.0	10.5	10.5	11.2	11.2	10.5	11.2	11.2	10.5	9.7
90°	0.4	1.5	2.5	3.6	4.7	5.2	5.6	6.4	7.1	7.9	8.7
92.5°	10.8	10.4	10.0	9.7	9.3	9.1	9.2	9.5	9.8	10.1	10.4
95°	28.2	25.0	21.8	18.7	15.5	13.9	14.2	14.9	15.6	16.2	16.9
97.5°	50.8	42.9	35.0	27.1	19.2	15.2	16.0	17.5	19.0	20.6	22.1
100°	76.8	63.6	50.4	37.2	24.0	17.4	18.2	19.8	21.5	23.1	24.7
102.5°	105.4	105.2	105.0	104.9	104.7	104.6	95.8	78.3	60.7	43.2	25.6
105°	131.9	134.8	137.7	140.6	143.5	144.9	131.7	105.4	79.1	52.8	26.5
107.5°	162.7	165.1	167.5	170.0	172.4	173.6	157.3	124.8	92.3	59.8	27.3
110°	192.2	194.2	196.2	198.3	200.3	201.3	187.4	159.5	131.6	103.8	75.9

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	220.0	221.7	223.5	225.2	226.9	227.8	227.0	225.3	223.7	222.0	220.4
115°	249.5	251.1	252.8	254.4	256.1	256.9	258.1	260.5	262.9	265.3	267.7
117.5°	275.1	277.0	279.0	280.9	282.8	283.8	284.6	286.2	287.9	289.5	291.1
120°	303.7	305.1	306.6	308.0	309.5	310.2	311.1	312.8	314.5	316.3	318.0
122.5°	328.0	329.6	331.1	332.7	334.2	335.0	336.0	337.9	339.8	341.7	343.6
125°	352.8	354.0	355.3	356.5	357.8	358.4	359.3	361.1	363.0	364.8	366.6
127.5°	375.3	376.7	378.0	379.4	380.7	381.4	382.1	383.6	385.0	386.5	387.9
130°	396.6	398.1	399.7	401.2	402.7	403.5	404.0	405.1	406.2	407.2	408.3
132.5°	418.3	419.5	420.8	422.0	423.3	423.9	424.4	425.5	426.6	427.6	428.7
135°	436.5	438.0	439.6	441.1	442.6	443.4	443.8	444.7	445.6	446.4	447.3
137.5°	455.6	456.8	457.9	459.1	460.2	460.8	461.3	462.2	463.2	464.1	465.1
140°	474.2	475.0	475.8	476.5	477.3	477.7	478.2	479.3	480.4	481.4	482.5
142.5°	489.9	490.6	491.2	491.9	492.6	492.9	493.5	494.8	496.0	497.3	498.5
145°	506.4	506.3	506.2	506.1	506.0	505.9	506.7	508.4	510.0	511.7	513.3
147.5°	520.7	520.4	520.1	519.8	519.5	519.4	520.2	521.8	523.5	525.1	526.7
150°	534.6	533.9	533.2	532.5	531.8	531.5	532.3	533.8	535.4	536.9	538.5
152.5°	546.3	545.5	544.7	544.0	543.2	542.8	543.5	545.0	546.4	547.9	549.3
155°	557.6	556.7	555.9	555.0	554.1	553.7	554.3	555.4	556.6	557.7	558.9
157.5°	566.7	565.9	565.1	564.4	563.6	563.2	563.6	564.5	565.4	566.2	567.1
160°	574.5	573.9	573.3	572.8	572.2	571.9	572.2	572.8	573.3	573.9	574.5
162.5°	581.4	580.8	580.2	579.7	579.1	578.8	579.0	579.5	580.0	580.5	581.0
165°	587.5	586.9	586.3	585.8	585.2	584.9	585.0	585.3	585.6	585.9	586.2
167.5°	592.3	591.7	591.1	590.6	590.0	589.7	589.8	590.1	590.4	590.7	591.0
170°	596.2	595.6	595.0	594.5	593.9	593.6	593.7	593.9	594.0	594.2	594.4
172.5°	598.8	598.2	597.6	597.1	596.5	596.2	596.3	596.5	596.6	596.8	597.0
175°	600.9	600.2	599.6	598.9	598.2	597.9	598.0	598.2	598.4	598.6	598.8
177.5°	601.8	601.1	600.5	599.8	599.1	598.8	598.8	598.9	599.0	599.1	599.2
180°	599.6	599.6	599.6	599.6	599.6	599.6	599.6	599.6	599.6	599.6	599.6

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8
2.5°	1009.9	1010.6	1012.1	1019.6	1023.3	1024.0	1021.1	1027.8	1030.0	1027.8	1026.3
5°	1057.7	1062.1	1071.1	1080.8	1080.1	1080.8	1085.3	1089.8	1091.3	1085.3	1087.5
7.5°	1099.5	1108.4	1118.2	1133.1	1133.1	1140.6	1143.6	1147.3	1156.3	1151.8	1150.3
10°	1147.3	1159.2	1177.2	1201.1	1201.8	1209.3	1216.8	1228.7	1232.4	1229.5	1230.9
12.5°	1207.0	1230.2	1231.7	1257.8	1269.8	1271.3	1283.2	1281.0	1288.5	1288.5	1301.2
15°	1233.2	1269.0	1289.2	1314.6	1322.1	1313.1	1322.8	1333.3	1334.0	1334.0	1333.3
17.5°	1280.2	1294.4	1314.6	1328.0	1331.0	1331.0	1331.8	1336.3	1333.3	1327.3	1331.8
20°	1290.0	1295.9	1303.4	1301.9	1303.4	1295.9	1288.5	1281.0	1281.7	1278.0	1289.2
22.5°	1272.0	1270.5	1253.4	1242.2	1242.2	1227.2	1213.0	1206.3	1199.6	1201.8	1205.6
25°	1227.2	1204.1	1183.1	1166.7	1163.0	1139.1	1119.7	1113.7	1102.5	1111.4	1112.9
27.5°	1155.5	1129.4	1095.8	1081.6	1062.1	1052.4	1039.0	1021.1	997.9	1011.3	1009.1
30°	1078.6	1039.7	1012.1	977.7	947.1	944.9	919.5	889.6	877.6	877.6	884.4
32.5°	992.7	941.1	900.8	852.3	822.4	809.7	779.1	749.2	755.9	733.5	741.7
35°	892.6	824.6	773.8	726.8	704.4	689.4	649.8	633.4	615.5	605.0	624.4
37.5°	797.0	718.6	653.6	602.0	593.8	566.9	540.0	529.6	519.1	523.6	522.9
40°	680.5	611.0	552.7	512.4	498.2	485.5	467.6	454.9	448.2	451.9	452.6
42.5°	575.1	516.9	473.6	445.2	433.2	424.3	415.3	404.8	402.6	402.6	405.6
45°	493.7	445.9	416.8	393.6	386.9	380.2	373.5	369.0	367.5	364.5	366.7
47.5°	428.7	390.6	372.7	355.5	348.1	346.6	340.6	338.4	335.4	334.6	335.4
50°	374.2	350.3	333.9	324.2	318.9	316.7	313.7	309.2	307.7	311.5	310.0
52.5°	336.1	313.7	304.7	295.0	292.1	289.1	284.6	285.3	284.6	283.1	283.1
55°	298.0	283.8	274.9	267.4	266.7	263.7	259.9	258.4	257.7	256.2	258.4
57.5°	267.4	256.2	248.0	241.3	238.3	238.3	234.5	231.5	231.5	230.8	231.5
60°	236.8	225.6	220.3	213.6	211.4	210.6	208.4	206.9	204.7	204.7	204.7
62.5°	208.4	199.4	193.5	187.5	188.2	184.5	181.5	180.0	180.0	180.8	180.8
65°	181.5	175.5	168.1	162.8	161.3	160.6	159.1	158.3	156.1	157.6	157.6
67.5°	156.9	148.6	144.2	141.9	139.7	138.9	137.4	135.9	135.2	134.4	135.9
70°	132.2	125.5	121.8	120.3	118.0	117.3	116.5	114.3	115.0	115.8	116.5
72.5°	109.8	103.8	103.1	98.6	98.6	98.6	95.6	97.1	96.4	94.9	96.4
75°	86.6	83.7	82.2	79.9	80.7	79.9	79.2	76.9	76.9	77.7	78.4
77.5°	68.7	65.7	65.0	62.7	61.2	62.7	61.2	60.5	60.5	61.2	61.2
80°	50.8	49.3	47.1	47.1	47.1	46.3	46.3	46.3	45.6	44.8	45.6
82.5°	33.6	33.6	32.9	32.1	32.9	31.4	32.1	32.1	32.1	32.1	32.1
85°	21.7	20.9	20.9	20.2	20.2	20.2	20.9	19.4	19.4	20.2	20.2
87.5°	9.7	9.7	9.7	10.5	9.7	9.7	9.7	10.5	9.7	9.7	9.7
90°	9.2	9.6	10.1	10.6	10.8	10.9	11.1	11.3	11.5	11.7	11.5
92.5°	10.6	10.8	11.0	11.2	11.3	11.3	11.4	11.5	11.6	11.7	11.6
95°	17.4	17.9	18.4	18.9	19.1	19.1	19.0	18.9	18.8	18.7	18.8
97.5°	22.4	22.7	23.0	23.3	23.4	23.5	23.6	23.7	23.8	23.9	23.8
100°	25.5	26.3	27.0	27.8	28.2	28.3	28.5	28.7	28.9	29.1	28.9
102.5°	26.7	27.7	28.8	29.9	30.4	30.5	30.8	31.1	31.4	31.7	31.4
105°	27.5	28.6	29.6	30.7	31.2	31.4	31.8	32.2	32.6	33.0	32.6
107.5°	28.4	29.4	30.5	31.6	32.1	32.3	32.7	33.0	33.4	33.8	33.4
110°	66.3	56.6	47.0	37.3	32.5	32.7	33.1	33.5	33.9	34.3	33.9

TEST NUMBER: P1029515

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	178.8	137.3	95.7	54.2	33.4	33.5	33.8	34.1	34.4	34.7	34.4
115°	223.1	178.4	133.8	89.1	66.8	63.3	56.4	49.5	42.5	35.6	42.5
117.5°	277.3	263.5	249.8	236.0	229.1	216.5	191.2	165.9	140.7	115.4	140.7
120°	319.2	320.4	321.5	322.7	323.3	316.8	303.8	290.7	277.7	264.7	277.7
122.5°	344.2	344.8	345.3	345.9	346.2	346.3	346.4	346.5	346.6	346.7	346.6
125°	367.3	368.0	368.7	369.4	369.7	369.8	370.1	370.4	370.7	371.0	370.7
127.5°	388.9	389.8	390.8	391.7	392.2	392.3	392.4	392.5	392.6	392.7	392.6
130°	409.4	410.4	411.5	412.6	413.1	413.0	412.9	412.8	412.7	412.6	412.7
132.5°	429.6	430.4	431.3	432.2	432.6	432.6	432.5	432.4	432.3	432.2	432.3
135°	448.3	449.3	450.2	451.2	451.7	451.6	451.4	451.2	451.0	450.8	451.0
137.5°	466.1	467.1	468.0	469.0	469.5	469.4	469.1	468.8	468.5	468.2	468.5
140°	483.4	484.2	485.1	486.0	486.4	486.2	485.7	485.2	484.7	484.2	484.7
142.5°	499.3	500.1	500.8	501.6	502.0	501.8	501.3	500.8	500.3	499.8	500.3
145°	514.0	514.6	515.3	516.0	516.3	516.1	515.6	515.1	514.7	514.2	514.7
147.5°	527.2	527.7	528.2	528.7	528.9	528.7	528.3	528.0	527.6	527.2	527.6
150°	539.1	539.7	540.2	540.8	541.1	540.9	540.4	539.9	539.4	538.9	539.4
152.5°	549.9	550.5	551.0	551.6	551.9	551.6	550.9	550.2	549.6	548.9	549.6
155°	559.5	560.1	560.6	561.2	561.5	561.1	560.3	559.6	558.8	558.0	558.8
157.5°	567.8	568.4	569.1	569.8	570.1	569.7	569.0	568.2	567.5	566.7	567.5
160°	575.1	575.7	576.2	576.8	577.1	576.8	576.1	575.4	574.7	574.0	574.7
162.5°	581.7	582.3	583.0	583.7	584.0	583.6	582.7	581.8	581.0	580.1	581.0
165°	586.9	587.5	588.2	588.9	589.2	588.9	588.2	587.5	586.9	586.2	586.9
167.5°	591.7	592.3	593.0	593.7	594.0	593.6	592.7	591.8	591.0	590.1	591.0
170°	595.1	595.8	596.5	597.2	597.5	597.1	596.2	595.3	594.5	593.6	594.5
172.5°	597.7	598.4	599.1	599.8	600.1	599.7	598.8	597.9	597.1	596.2	597.1
175°	599.5	600.1	600.8	601.5	601.8	601.3	600.4	599.4	598.5	597.5	598.5
177.5°	599.9	600.5	601.2	601.9	602.2	601.8	600.9	600.0	599.2	598.3	599.2
180°	599.6	599.6	599.6	599.6	599.6	599.6	599.6	599.6	599.6	599.6	599.6

TEST NUMBER: P1029515

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8
2.5°	1030.0	1024.8	1020.3	1021.1	1024.8	1021.8	1014.3	1004.6	1000.9	996.4	1000.9
5°	1092.0	1087.5	1078.6	1079.3	1077.1	1074.1	1062.1	1047.2	1047.2	1035.3	1033.8
7.5°	1153.3	1146.5	1140.6	1139.1	1130.9	1124.9	1114.4	1093.5	1085.3	1071.1	1062.9
10°	1222.0	1216.8	1210.0	1201.8	1197.3	1186.9	1169.7	1139.1	1124.1	1104.7	1090.5
12.5°	1291.4	1290.7	1275.8	1259.3	1258.6	1242.2	1230.2	1189.1	1169.0	1142.8	1109.2
15°	1335.5	1331.8	1323.6	1315.4	1317.6	1299.7	1272.8	1224.2	1210.8	1179.4	1143.6
17.5°	1334.8	1334.8	1332.5	1331.0	1328.8	1323.6	1308.6	1276.5	1254.8	1215.3	1181.6
20°	1292.2	1301.9	1304.1	1303.4	1310.9	1314.6	1313.9	1293.7	1276.5	1241.4	1207.0
22.5°	1207.0	1229.5	1239.2	1245.1	1260.8	1269.0	1288.5	1281.0	1276.5	1250.4	1221.2
25°	1127.9	1135.3	1164.5	1166.0	1187.6	1207.8	1227.2	1239.9	1256.3	1246.6	1222.0
27.5°	1025.5	1042.7	1063.6	1079.3	1083.8	1124.9	1157.0	1180.9	1218.2	1221.2	1213.0
30°	909.8	918.0	952.3	973.3	997.2	1027.0	1073.3	1114.4	1148.0	1178.7	1189.1
32.5°	768.6	802.2	822.4	847.8	868.7	921.7	978.5	1031.5	1070.4	1121.9	1144.3
35°	639.4	665.5	699.9	710.3	748.4	793.2	867.2	935.2	994.2	1046.5	1092.0
37.5°	532.6	553.5	590.1	606.5	628.9	686.4	748.4	832.8	903.8	968.0	1024.8
40°	459.4	475.0	502.7	507.9	526.6	578.9	628.9	708.1	802.2	888.9	950.8
42.5°	409.3	416.8	435.5	442.2	454.1	489.2	534.1	608.8	696.1	785.8	873.2
45°	373.5	378.7	389.9	395.9	410.8	426.5	463.1	522.9	591.6	682.0	776.1
47.5°	341.3	348.1	352.6	356.3	364.5	381.7	405.6	449.7	515.4	598.3	689.4
50°	314.5	316.7	324.9	325.7	330.9	342.1	364.5	391.4	443.7	510.9	599.0
52.5°	287.6	289.8	295.0	300.3	302.5	311.5	326.4	348.8	387.7	440.7	519.1
55°	260.7	263.7	268.9	272.6	274.9	282.3	291.3	313.0	343.6	380.9	445.2
57.5°	233.8	240.5	242.0	244.2	248.0	256.2	264.4	277.1	301.0	335.4	382.4
60°	208.4	210.6	215.9	218.1	221.8	226.3	236.8	246.5	263.7	290.6	333.1
62.5°	182.3	187.5	189.7	192.0	194.9	200.2	206.9	217.4	232.3	254.0	287.6
65°	159.8	160.6	165.1	168.1	171.0	174.8	181.5	191.2	200.2	220.3	245.0
67.5°	138.2	139.7	141.2	144.2	147.9	151.6	157.6	162.8	174.0	187.5	206.9
70°	117.3	117.3	121.0	123.2	122.5	127.0	131.5	137.4	145.7	158.3	174.0
72.5°	98.6	97.8	100.8	101.6	103.1	106.1	109.1	115.0	119.5	129.2	141.2
75°	78.4	79.9	81.4	81.4	83.7	85.9	88.9	91.9	97.1	103.1	112.0
77.5°	62.0	62.0	63.5	64.2	66.5	65.7	68.7	71.7	75.4	80.7	87.4
80°	45.6	47.1	47.1	47.1	47.8	48.6	51.5	53.8	56.0	59.8	62.7
82.5°	32.1	32.1	33.6	33.6	33.6	35.1	35.1	35.9	37.3	39.6	41.8
85°	20.2	20.2	20.2	20.9	20.2	20.9	22.4	21.7	22.4	23.9	23.9
87.5°	9.7	9.7	9.7	9.7	9.7	10.5	9.7	10.5	11.2	11.2	11.2
90°	11.3	11.1	10.9	10.8	10.6	10.1	9.6	9.2	8.7	7.9	7.1
92.5°	11.5	11.4	11.3	11.3	11.2	11.0	10.8	10.6	10.4	10.1	9.8
95°	18.9	19.0	19.1	19.1	18.9	18.4	17.9	17.4	16.9	16.2	15.6
97.5°	23.7	23.6	23.5	23.4	23.3	23.0	22.7	22.4	22.1	20.6	19.0
100°	28.7	28.5	28.3	28.2	27.8	27.0	26.3	25.5	24.7	23.1	21.5
102.5°	31.1	30.8	30.5	30.4	29.9	28.8	27.7	26.7	25.6	43.2	60.7
105°	32.2	31.8	31.4	31.2	30.7	29.6	28.6	27.5	26.5	52.8	79.1
107.5°	33.0	32.7	32.3	32.1	31.6	30.5	29.4	28.4	27.3	59.8	92.3
110°	33.5	33.1	32.7	32.5	37.3	47.0	56.6	66.3	75.9	103.8	131.6

TEST NUMBER: P1029515

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	34.1	33.8	33.5	33.4	54.2	95.7	137.3	178.8	220.4	222.0	223.7
115°	49.5	56.4	63.3	66.8	89.1	133.8	178.4	223.1	267.7	265.3	262.9
117.5°	165.9	191.2	216.5	229.1	236.0	249.8	263.5	277.3	291.1	289.5	287.9
120°	290.7	303.8	316.8	323.3	322.7	321.5	320.4	319.2	318.0	316.3	314.5
122.5°	346.5	346.4	346.3	346.2	345.9	345.3	344.8	344.2	343.6	341.7	339.8
125°	370.4	370.1	369.8	369.7	369.4	368.7	368.0	367.3	366.6	364.8	363.0
127.5°	392.5	392.4	392.3	392.2	391.7	390.8	389.8	388.9	387.9	386.5	385.0
130°	412.8	412.9	413.0	413.1	412.6	411.5	410.4	409.4	408.3	407.2	406.2
132.5°	432.4	432.5	432.6	432.6	432.2	431.3	430.4	429.6	428.7	427.6	426.6
135°	451.2	451.4	451.6	451.7	451.2	450.2	449.3	448.3	447.3	446.4	445.6
137.5°	468.8	469.1	469.4	469.5	469.0	468.0	467.1	466.1	465.1	464.1	463.2
140°	485.2	485.7	486.2	486.4	486.0	485.1	484.2	483.4	482.5	481.4	480.4
142.5°	500.8	501.3	501.8	502.0	501.6	500.8	500.1	499.3	498.5	497.3	496.0
145°	515.1	515.6	516.1	516.3	516.0	515.3	514.6	514.0	513.3	511.7	510.0
147.5°	528.0	528.3	528.7	528.9	528.7	528.2	527.7	527.2	526.7	525.1	523.5
150°	539.9	540.4	540.9	541.1	540.8	540.2	539.7	539.1	538.5	536.9	535.4
152.5°	550.2	550.9	551.6	551.9	551.6	551.0	550.5	549.9	549.3	547.9	546.4
155°	559.6	560.3	561.1	561.5	561.2	560.6	560.1	559.5	558.9	557.7	556.6
157.5°	568.2	569.0	569.7	570.1	569.8	569.1	568.4	567.8	567.1	566.2	565.4
160°	575.4	576.1	576.8	577.1	576.8	576.2	575.7	575.1	574.5	573.9	573.3
162.5°	581.8	582.7	583.6	584.0	583.7	583.0	582.3	581.7	581.0	580.5	580.0
165°	587.5	588.2	588.9	589.2	588.9	588.2	587.5	586.9	586.2	585.9	585.6
167.5°	591.8	592.7	593.6	594.0	593.7	593.0	592.3	591.7	591.0	590.7	590.4
170°	595.3	596.2	597.1	597.5	597.2	596.5	595.8	595.1	594.4	594.2	594.0
172.5°	597.9	598.8	599.7	600.1	599.8	599.1	598.4	597.7	597.0	596.8	596.6
175°	599.4	600.4	601.3	601.8	601.5	600.8	600.1	599.5	598.8	598.6	598.4
177.5°	600.0	600.9	601.8	602.2	601.9	601.2	600.5	599.9	599.2	599.1	599.0
180°	599.6	599.6	599.6	599.6	599.6	599.6	599.6	599.6	599.6	599.6	599.6

TEST NUMBER: P1029515

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8
2.5°	997.2	993.4	991.2	992.7	988.2	977.0	977.0	980.7	976.2	971.8	965.0
5°	1024.8	1017.3	1012.8	1012.1	1001.6	983.7	980.0	976.2	966.5	956.1	944.9
7.5°	1051.7	1038.2	1030.8	1025.5	1010.6	987.4	977.7	969.5	953.8	938.1	924.0
10°	1074.1	1054.7	1045.7	1037.5	1018.1	988.9	973.3	958.3	938.1	918.0	900.1
12.5°	1092.0	1069.6	1058.4	1046.5	1022.6	984.5	965.0	941.1	921.0	894.1	876.2
15°	1121.9	1075.6	1065.1	1053.9	1029.3	977.0	953.1	926.2	898.6	862.7	843.3
17.5°	1145.8	1083.8	1083.1	1059.2	1027.0	974.0	937.4	902.3	872.4	836.6	805.9
20°	1160.0	1096.5	1084.5	1059.9	1019.6	953.8	915.7	876.9	844.8	801.5	770.8
22.5°	1171.9	1114.4	1083.1	1053.2	1003.9	947.1	891.1	854.5	810.4	763.4	734.2
25°	1176.4	1118.2	1085.3	1050.9	992.7	927.7	864.2	824.6	775.3	732.7	693.2
27.5°	1177.2	1117.4	1077.1	1041.2	977.0	902.3	837.3	795.5	741.0	691.7	652.1
30°	1169.7	1109.2	1072.6	1033.8	962.1	879.1	804.4	758.1	699.9	650.6	609.5
32.5°	1147.3	1092.8	1062.9	1020.3	942.6	847.0	773.1	721.5	660.3	611.7	572.2
35°	1109.9	1072.6	1039.7	1000.1	917.2	817.1	741.7	681.2	619.2	572.9	535.6
37.5°	1063.6	1043.5	1012.8	974.0	888.1	790.3	706.6	639.4	577.4	532.6	496.0
40°	1000.9	1006.1	976.2	941.1	853.7	753.7	661.0	596.8	538.5	496.7	460.9
42.5°	932.9	954.6	937.4	903.8	815.7	713.3	627.4	556.5	499.7	456.4	426.5
45°	859.7	897.1	886.6	862.0	776.1	670.7	579.6	510.9	460.9	419.0	392.9
47.5°	779.8	832.8	832.8	814.9	732.0	628.2	538.5	468.3	419.0	389.2	363.8
50°	698.4	758.1	767.8	755.9	682.7	579.6	488.5	425.0	382.4	353.3	334.6
52.5°	613.2	682.7	700.6	694.6	630.4	533.3	447.4	385.4	346.6	321.2	304.7
55°	531.8	612.5	631.9	634.1	574.4	482.5	401.9	347.3	310.0	292.8	278.6
57.5°	454.9	532.6	554.2	558.0	517.6	436.2	359.3	311.5	277.9	263.7	252.5
60°	389.2	454.1	482.5	490.7	455.6	382.4	319.7	273.4	248.0	234.5	224.1
62.5°	335.4	387.7	417.5	419.8	404.1	335.4	278.6	239.8	218.1	206.2	200.9
65°	283.1	330.1	348.1	357.0	344.3	290.6	240.5	208.4	191.2	180.8	175.5
67.5°	241.3	271.1	286.1	298.0	285.3	245.0	204.7	178.5	165.8	155.4	152.4
70°	197.9	222.6	233.8	245.7	234.5	203.9	174.8	150.9	139.7	131.5	127.7
72.5°	158.3	177.8	188.2	195.7	189.0	163.6	139.7	123.2	115.0	109.1	106.8
75°	125.5	138.9	144.9	150.1	147.1	127.7	112.8	99.3	91.9	86.6	85.2
77.5°	95.6	105.3	112.0	113.5	109.8	97.1	84.4	76.2	70.2	67.2	65.7
80°	68.0	73.9	77.7	79.9	76.2	71.0	62.0	56.0	50.8	47.1	46.3
82.5°	45.6	48.6	51.5	50.8	49.3	44.8	39.6	36.6	34.4	31.4	31.4
85°	26.1	26.9	28.4	29.1	28.4	25.4	22.4	20.9	19.4	17.2	17.2
87.5°	11.2	12.0	12.0	12.7	11.2	11.2	9.7	8.2	8.2	7.5	6.7
90°	6.4	5.6	5.2	4.7	3.6	2.5	1.5	0.4	1.5	2.5	3.6
92.5°	9.5	9.2	9.1	9.3	9.7	10.0	10.4	10.8	10.4	10.0	9.7
95°	14.9	14.2	13.9	15.5	18.7	21.8	25.0	28.2	25.0	21.8	18.7
97.5°	17.5	16.0	15.2	19.2	27.1	35.0	42.9	50.8	42.9	35.0	27.1
100°	19.8	18.2	17.4	24.0	37.2	50.4	63.6	76.8	63.6	50.4	37.2
102.5°	78.3	95.8	104.6	104.7	104.9	105.0	105.2	105.4	105.2	105.0	104.9
105°	105.4	131.7	144.9	143.5	140.6	137.7	134.8	131.9	134.8	137.7	140.6
107.5°	124.8	157.3	173.6	172.4	170.0	167.5	165.1	162.7	165.1	167.5	170.0
110°	159.5	187.4	201.3	200.3	198.3	196.2	194.2	192.2	194.2	196.2	198.3

TEST NUMBER: P1029515

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	225.3	227.0	227.8	226.9	225.2	223.5	221.7	220.0	221.7	223.5	225.2
115°	260.5	258.1	256.9	256.1	254.4	252.8	251.1	249.5	251.1	252.8	254.4
117.5°	286.2	284.6	283.8	282.8	280.9	279.0	277.0	275.1	277.0	279.0	280.9
120°	312.8	311.1	310.2	309.5	308.0	306.6	305.1	303.7	305.1	306.6	308.0
122.5°	337.9	336.0	335.0	334.2	332.7	331.1	329.6	328.0	329.6	331.1	332.7
125°	361.1	359.3	358.4	357.8	356.5	355.3	354.0	352.8	354.0	355.3	356.5
127.5°	383.6	382.1	381.4	380.7	379.4	378.0	376.7	375.3	376.7	378.0	379.4
130°	405.1	404.0	403.5	402.7	401.2	399.7	398.1	396.6	398.1	399.7	401.2
132.5°	425.5	424.4	423.9	423.3	422.0	420.8	419.5	418.3	419.5	420.8	422.0
135°	444.7	443.8	443.4	442.6	441.1	439.6	438.0	436.5	438.0	439.6	441.1
137.5°	462.2	461.3	460.8	460.2	459.1	457.9	456.8	455.6	456.8	457.9	459.1
140°	479.3	478.2	477.7	477.3	476.5	475.8	475.0	474.2	475.0	475.8	476.5
142.5°	494.8	493.5	492.9	492.6	491.9	491.2	490.6	489.9	490.6	491.2	491.9
145°	508.4	506.7	505.9	506.0	506.1	506.2	506.3	506.4	506.3	506.2	506.1
147.5°	521.8	520.2	519.4	519.5	519.8	520.1	520.4	520.7	520.4	520.1	519.8
150°	533.8	532.3	531.5	531.8	532.5	533.2	533.9	534.6	533.9	533.2	532.5
152.5°	545.0	543.5	542.8	543.2	544.0	544.7	545.5	546.3	545.5	544.7	544.0
155°	555.4	554.3	553.7	554.1	555.0	555.9	556.7	557.6	556.7	555.9	555.0
157.5°	564.5	563.6	563.2	563.6	564.4	565.1	565.9	566.7	565.9	565.1	564.4
160°	572.8	572.2	571.9	572.2	572.8	573.3	573.9	574.5	573.9	573.3	572.8
162.5°	579.5	579.0	578.8	579.1	579.7	580.2	580.8	581.4	580.8	580.2	579.7
165°	585.3	585.0	584.9	585.2	585.8	586.3	586.9	587.5	586.9	586.3	585.8
167.5°	590.1	589.8	589.7	590.0	590.6	591.1	591.7	592.3	591.7	591.1	590.6
170°	593.9	593.7	593.6	593.9	594.5	595.0	595.6	596.2	595.6	595.0	594.5
172.5°	596.5	596.3	596.2	596.5	597.1	597.6	598.2	598.8	598.2	597.6	597.1
175°	598.2	598.0	597.9	598.2	598.9	599.6	600.2	600.9	600.2	599.6	598.9
177.5°	598.9	598.8	598.8	599.1	599.8	600.5	601.1	601.8	601.1	600.5	599.8
180°	599.6	599.6	599.6	599.6	599.6	599.6	599.6	599.6	599.6	599.6	599.6

TEST NUMBER: P1029515

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8
2.5°	961.3	965.0	964.3	956.8	948.6	941.9	929.2	930.7	926.2	926.9	931.4
5°	937.4	937.4	934.4	924.0	910.5	903.0	888.9	885.1	876.2	875.4	874.7
7.5°	912.0	908.3	904.5	889.6	873.2	861.2	841.8	837.3	828.3	822.4	819.4
10°	882.1	876.9	869.4	852.3	832.1	817.1	797.0	791.0	773.8	766.4	761.9
12.5°	849.3	846.3	834.3	820.1	787.3	770.8	741.7	747.7	730.5	715.6	713.3
15°	816.4	805.2	798.5	775.3	735.7	728.3	705.1	693.2	677.5	665.5	665.5
17.5°	784.3	767.1	752.2	727.5	698.4	677.5	660.3	654.3	634.9	622.9	620.7
20°	741.7	722.3	718.6	683.4	663.3	640.1	623.7	608.8	594.6	589.3	585.6
22.5°	701.4	679.0	673.0	643.1	622.9	599.8	583.4	572.9	562.4	558.7	552.0
25°	658.0	644.6	635.6	603.5	581.1	559.5	548.2	540.8	531.1	530.3	525.8
27.5°	616.2	603.5	594.6	563.9	547.5	527.3	518.4	510.2	504.9	502.7	500.4
30°	580.4	566.2	555.7	533.3	513.1	496.7	489.2	484.0	481.0	477.3	476.5
32.5°	540.8	532.6	518.4	501.2	485.5	469.8	465.3	461.6	457.1	455.6	454.9
35°	507.2	496.0	487.0	467.6	460.9	447.4	442.2	439.2	433.2	431.7	430.2
37.5°	474.3	463.8	454.1	442.2	429.5	422.0	419.0	414.5	411.6	412.3	410.8
40°	441.4	433.2	425.8	413.1	405.6	401.9	395.9	391.4	389.9	390.6	389.9
42.5°	409.3	401.9	397.4	387.7	380.2	376.5	372.7	368.2	370.5	370.5	372.7
45°	380.2	373.5	370.5	363.0	358.5	352.6	348.8	348.1	351.1	350.3	350.3
47.5°	350.3	348.1	344.3	337.6	331.6	327.9	327.2	327.2	330.1	331.6	330.9
50°	327.2	322.7	318.2	313.0	308.5	307.0	304.7	306.2	309.2	309.2	310.7
52.5°	298.0	295.0	293.5	289.1	286.1	286.1	286.1	286.8	289.1	291.3	290.6
55°	272.6	270.4	268.9	266.7	262.9	263.7	262.9	264.4	266.7	268.9	270.4
57.5°	245.7	245.0	243.5	239.8	239.8	239.0	241.3	242.0	245.7	247.2	249.5
60°	221.8	219.6	219.6	216.6	216.6	216.6	218.9	221.1	224.1	224.8	226.3
62.5°	196.4	196.4	195.7	193.5	193.5	195.7	196.4	199.4	200.9	200.9	203.2
65°	172.5	171.8	171.0	171.8	172.5	172.5	174.8	176.3	177.8	178.5	179.3
67.5°	148.6	147.9	149.4	148.6	150.1	153.1	152.4	154.6	156.9	156.9	157.6
70°	126.2	127.7	127.0	128.5	127.7	129.2	131.5	132.2	132.2	133.0	135.2
72.5°	105.3	105.3	105.3	104.6	105.3	106.8	108.3	109.1	110.5	111.3	113.5
75°	85.2	85.2	83.7	85.2	85.2	86.6	88.1	88.1	88.1	89.6	91.9
77.5°	64.2	65.0	64.2	65.7	65.7	66.5	68.0	67.2	68.7	69.5	70.2
80°	47.1	46.3	46.3	46.3	47.1	47.1	48.6	49.3	49.3	51.5	50.0
82.5°	29.9	30.6	29.9	30.6	30.6	31.4	30.6	31.4	32.1	33.6	32.9
85°	17.2	16.4	16.4	17.2	16.4	16.4	17.2	16.4	17.2	16.4	17.2
87.5°	6.7	6.0	6.0	6.0	6.0	5.2	5.2	4.5	4.5	4.5	3.7
90°	4.7	5.2	5.6	6.4	7.1	7.9	8.7	9.2	9.6	10.1	10.6
92.5°	9.3	9.1	9.2	9.5	9.8	10.1	10.4	10.6	10.8	11.0	11.2
95°	15.5	13.9	14.2	14.9	15.6	16.2	16.9	17.4	17.9	18.4	18.9
97.5°	19.2	15.2	16.0	17.5	19.0	20.6	22.1	22.4	22.7	23.0	23.3
100°	24.0	17.4	18.2	19.8	21.5	23.1	24.7	25.5	26.3	27.0	27.8
102.5°	104.7	104.6	95.8	78.3	60.7	43.2	25.6	26.7	27.7	28.8	29.9
105°	143.5	144.9	131.7	105.4	79.1	52.8	26.5	27.5	28.6	29.6	30.7
107.5°	172.4	173.6	157.3	124.8	92.3	59.8	27.3	28.4	29.4	30.5	31.6
110°	200.3	201.3	187.4	159.5	131.6	103.8	75.9	66.3	56.6	47.0	37.3

TEST NUMBER: P1029515

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	226.9	227.8	227.0	225.3	223.7	222.0	220.4	178.8	137.3	95.7	54.2
115°	256.1	256.9	258.1	260.5	262.9	265.3	267.7	223.1	178.4	133.8	89.1
117.5°	282.8	283.8	284.6	286.2	287.9	289.5	291.1	277.3	263.5	249.8	236.0
120°	309.5	310.2	311.1	312.8	314.5	316.3	318.0	319.2	320.4	321.5	322.7
122.5°	334.2	335.0	336.0	337.9	339.8	341.7	343.6	344.2	344.8	345.3	345.9
125°	357.8	358.4	359.3	361.1	363.0	364.8	366.6	367.3	368.0	368.7	369.4
127.5°	380.7	381.4	382.1	383.6	385.0	386.5	387.9	388.9	389.8	390.8	391.7
130°	402.7	403.5	404.0	405.1	406.2	407.2	408.3	409.4	410.4	411.5	412.6
132.5°	423.3	423.9	424.4	425.5	426.6	427.6	428.7	429.6	430.4	431.3	432.2
135°	442.6	443.4	443.8	444.7	445.6	446.4	447.3	448.3	449.3	450.2	451.2
137.5°	460.2	460.8	461.3	462.2	463.2	464.1	465.1	466.1	467.1	468.0	469.0
140°	477.3	477.7	478.2	479.3	480.4	481.4	482.5	483.4	484.2	485.1	486.0
142.5°	492.6	492.9	493.5	494.8	496.0	497.3	498.5	499.3	500.1	500.8	501.6
145°	506.0	505.9	506.7	508.4	510.0	511.7	513.3	514.0	514.6	515.3	516.0
147.5°	519.5	519.4	520.2	521.8	523.5	525.1	526.7	527.2	527.7	528.2	528.7
150°	531.8	531.5	532.3	533.8	535.4	536.9	538.5	539.1	539.7	540.2	540.8
152.5°	543.2	542.8	543.5	545.0	546.4	547.9	549.3	549.9	550.5	551.0	551.6
155°	554.1	553.7	554.3	555.4	556.6	557.7	558.9	559.5	560.1	560.6	561.2
157.5°	563.6	563.2	563.6	564.5	565.4	566.2	567.1	567.8	568.4	569.1	569.8
160°	572.2	571.9	572.2	572.8	573.3	573.9	574.5	575.1	575.7	576.2	576.8
162.5°	579.1	578.8	579.0	579.5	580.0	580.5	581.0	581.7	582.3	583.0	583.7
165°	585.2	584.9	585.0	585.3	585.6	585.9	586.2	586.9	587.5	588.2	588.9
167.5°	590.0	589.7	589.8	590.1	590.4	590.7	591.0	591.7	592.3	593.0	593.7
170°	593.9	593.6	593.7	593.9	594.0	594.2	594.4	595.1	595.8	596.5	597.2
172.5°	596.5	596.2	596.3	596.5	596.6	596.8	597.0	597.7	598.4	599.1	599.8
175°	598.2	597.9	598.0	598.2	598.4	598.6	598.8	599.5	600.1	600.8	601.5
177.5°	599.1	598.8	598.8	598.9	599.0	599.1	599.2	599.9	600.5	601.2	601.9
180°	599.6	599.6	599.6	599.6	599.6	599.6	599.6	599.6	599.6	599.6	599.6

TEST NUMBER: P1029515

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8
2.5°	926.2	928.4	923.2	921.7	923.2	918.0	919.5	921.0	921.0	923.2	924.7
5°	872.4	869.4	864.2	862.7	861.2	863.5	862.0	864.2	864.9	870.2	870.9
7.5°	819.4	814.9	810.4	805.9	804.4	800.7	804.4	804.4	809.7	808.2	811.9
10°	756.6	755.9	749.9	747.7	744.7	738.7	746.9	744.7	748.4	755.1	756.6
12.5°	710.3	702.1	705.9	695.4	699.1	693.2	693.9	693.9	699.9	700.6	699.1
15°	666.3	659.5	649.8	645.4	643.1	640.1	649.8	650.6	646.1	656.6	652.8
17.5°	621.4	621.4	612.5	610.2	604.3	607.3	605.8	606.5	605.0	612.5	616.2
20°	582.6	578.9	575.9	576.6	569.2	567.7	566.2	567.7	572.9	578.1	579.6
22.5°	551.2	549.0	541.5	543.0	537.0	539.3	537.8	541.5	542.3	542.3	547.5
25°	521.4	518.4	519.1	516.1	513.9	513.9	511.6	513.9	516.9	518.4	519.1
27.5°	499.0	496.7	493.0	490.7	492.2	488.5	491.5	493.7	493.7	492.2	493.7
30°	472.1	473.6	473.6	466.1	469.1	467.6	469.8	471.3	471.3	472.1	470.6
32.5°	454.1	449.7	448.9	448.2	448.2	445.2	445.2	447.4	448.2	448.9	451.1
35°	430.2	430.2	426.5	428.7	425.8	426.5	425.8	426.5	428.0	425.8	428.0
37.5°	408.6	409.3	407.8	409.3	410.1	408.6	407.1	410.1	408.6	408.6	407.1
40°	389.9	389.2	389.9	389.9	389.9	390.6	389.2	389.2	389.2	387.7	386.2
42.5°	374.2	369.7	371.2	372.0	369.7	369.7	370.5	369.7	372.0	367.5	367.5
45°	351.8	350.3	351.1	351.1	352.6	350.3	351.8	352.6	350.3	349.6	348.1
47.5°	331.6	333.1	331.6	333.1	333.1	334.6	331.6	332.4	333.1	330.1	327.9
50°	311.5	311.5	313.7	313.0	313.7	312.2	312.2	311.5	312.2	310.7	308.5
52.5°	292.8	290.6	294.3	293.5	292.8	292.1	291.3	292.1	290.6	289.1	289.1
55°	269.6	269.6	271.9	272.6	272.6	271.1	269.6	270.4	269.6	268.9	268.1
57.5°	251.0	248.0	249.5	250.2	250.2	248.0	249.5	248.0	248.0	248.7	246.5
60°	227.1	227.1	225.6	227.8	227.8	226.3	226.3	227.1	225.6	224.8	224.1
62.5°	201.7	202.4	204.7	205.4	206.2	204.7	203.2	203.9	203.9	201.7	202.4
65°	180.0	181.5	184.5	183.7	182.3	183.0	181.5	182.3	180.0	180.8	178.5
67.5°	159.1	158.3	159.1	159.1	160.6	159.8	158.3	158.3	157.6	159.8	157.6
70°	136.7	136.7	136.7	136.7	137.4	138.2	136.7	135.2	135.9	134.4	133.7
72.5°	113.5	114.3	113.5	115.0	112.8	114.3	114.3	113.5	112.8	112.8	112.8
75°	91.9	93.4	91.1	91.9	91.1	92.6	91.9	91.9	90.4	89.6	90.4
77.5°	70.2	71.0	69.5	70.2	69.5	70.2	70.2	69.5	69.5	69.5	69.5
80°	50.0	50.8	50.0	49.3	48.6	50.0	48.6	49.3	50.0	49.3	50.8
82.5°	32.1	32.1	31.4	32.1	30.6	30.6	31.4	31.4	30.6	32.1	30.6
85°	15.7	15.7	17.2	15.7	14.9	14.9	14.9	15.7	14.9	16.4	15.7
87.5°	3.7	3.0	3.7	3.7	3.0	3.0	3.7	3.0	3.7	4.5	3.0
90°	10.8	10.9	11.1	11.3	11.5	11.7	11.5	11.3	11.1	10.9	10.8
92.5°	11.3	11.3	11.4	11.5	11.6	11.7	11.6	11.5	11.4	11.3	11.3
95°	19.1	19.1	19.0	18.9	18.8	18.7	18.8	18.9	19.0	19.1	19.1
97.5°	23.4	23.5	23.6	23.7	23.8	23.9	23.8	23.7	23.6	23.5	23.4
100°	28.2	28.3	28.5	28.7	28.9	29.1	28.9	28.7	28.5	28.3	28.2
102.5°	30.4	30.5	30.8	31.1	31.4	31.7	31.4	31.1	30.8	30.5	30.4
105°	31.2	31.4	31.8	32.2	32.6	33.0	32.6	32.2	31.8	31.4	31.2
107.5°	32.1	32.3	32.7	33.0	33.4	33.8	33.4	33.0	32.7	32.3	32.1
110°	32.5	32.7	33.1	33.5	33.9	34.3	33.9	33.5	33.1	32.7	32.5

TEST NUMBER: P1029515

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	33.4	33.5	33.8	34.1	34.4	34.7	34.4	34.1	33.8	33.5	33.4
115°	66.8	63.3	56.4	49.5	42.5	35.6	42.5	49.5	56.4	63.3	66.8
117.5°	229.1	216.5	191.2	165.9	140.7	115.4	140.7	165.9	191.2	216.5	229.1
120°	323.3	316.8	303.8	290.7	277.7	264.7	277.7	290.7	303.8	316.8	323.3
122.5°	346.2	346.3	346.4	346.5	346.6	346.7	346.6	346.5	346.4	346.3	346.2
125°	369.7	369.8	370.1	370.4	370.7	371.0	370.7	370.4	370.1	369.8	369.7
127.5°	392.2	392.3	392.4	392.5	392.6	392.7	392.6	392.5	392.4	392.3	392.2
130°	413.1	413.0	412.9	412.8	412.7	412.6	412.7	412.8	412.9	413.0	413.1
132.5°	432.6	432.6	432.5	432.4	432.3	432.2	432.3	432.4	432.5	432.6	432.6
135°	451.7	451.6	451.4	451.2	451.0	450.8	451.0	451.2	451.4	451.6	451.7
137.5°	469.5	469.4	469.1	468.8	468.5	468.2	468.5	468.8	469.1	469.4	469.5
140°	486.4	486.2	485.7	485.2	484.7	484.2	484.7	485.2	485.7	486.2	486.4
142.5°	502.0	501.8	501.3	500.8	500.3	499.8	500.3	500.8	501.3	501.8	502.0
145°	516.3	516.1	515.6	515.1	514.7	514.2	514.7	515.1	515.6	516.1	516.3
147.5°	528.9	528.7	528.3	528.0	527.6	527.2	527.6	528.0	528.3	528.7	528.9
150°	541.1	540.9	540.4	539.9	539.4	538.9	539.4	539.9	540.4	540.9	541.1
152.5°	551.9	551.6	550.9	550.2	549.6	548.9	549.6	550.2	550.9	551.6	551.9
155°	561.5	561.1	560.3	559.6	558.8	558.0	558.8	559.6	560.3	561.1	561.5
157.5°	570.1	569.7	569.0	568.2	567.5	566.7	567.5	568.2	569.0	569.7	570.1
160°	577.1	576.8	576.1	575.4	574.7	574.0	574.7	575.4	576.1	576.8	577.1
162.5°	584.0	583.6	582.7	581.8	581.0	580.1	581.0	581.8	582.7	583.6	584.0
165°	589.2	588.9	588.2	587.5	586.9	586.2	586.9	587.5	588.2	588.9	589.2
167.5°	594.0	593.6	592.7	591.8	591.0	590.1	591.0	591.8	592.7	593.6	594.0
170°	597.5	597.1	596.2	595.3	594.5	593.6	594.5	595.3	596.2	597.1	597.5
172.5°	600.1	599.7	598.8	597.9	597.1	596.2	597.1	597.9	598.8	599.7	600.1
175°	601.8	601.3	600.4	599.4	598.5	597.5	598.5	599.4	600.4	601.3	601.8
177.5°	602.2	601.8	600.9	600.0	599.2	598.3	599.2	600.0	600.9	601.8	602.2
180°	599.6	599.6	599.6	599.6	599.6	599.6	599.6	599.6	599.6	599.6	599.6

TEST NUMBER: P1029515

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8
2.5°	922.5	928.4	926.2	918.0	927.7	927.7	934.4	934.4	942.6	945.6	950.1
5°	870.2	874.7	878.4	874.7	881.4	891.8	897.8	903.0	914.2	918.7	925.5
7.5°	814.2	822.4	826.1	826.1	837.3	849.3	861.2	868.7	884.4	890.3	897.1
10°	759.6	769.3	776.8	776.1	794.7	802.2	817.1	834.3	850.0	859.0	868.7
12.5°	702.1	707.3	717.8	732.7	737.2	750.7	767.8	789.5	817.9	826.1	840.3
15°	654.3	668.5	676.7	683.4	693.9	706.6	725.3	746.2	774.6	792.5	807.4
17.5°	614.0	632.7	637.9	636.4	649.8	669.3	690.9	706.6	732.0	753.7	767.8
20°	581.1	588.6	597.5	601.3	611.7	632.7	653.6	671.5	692.4	709.6	726.0
22.5°	548.2	554.2	561.7	568.4	576.6	588.6	608.8	631.2	651.3	667.8	686.4
25°	521.4	525.1	531.8	537.0	546.0	554.2	568.4	593.1	617.0	626.7	643.1
27.5°	495.2	498.2	502.7	508.7	513.1	521.4	534.1	554.2	578.9	588.6	611.0
30°	472.1	474.3	478.8	481.8	484.0	493.7	503.4	519.1	537.8	551.2	567.7
32.5°	450.4	452.6	457.1	457.9	460.9	466.1	475.0	489.2	505.7	516.9	531.1
35°	426.5	428.0	432.5	434.0	436.2	440.7	447.4	457.9	472.8	481.0	493.7
37.5°	407.8	407.1	410.1	412.3	415.3	417.5	419.8	430.2	441.4	448.9	458.6
40°	387.7	386.2	386.9	389.9	391.4	394.4	394.4	404.8	412.3	418.3	425.8
42.5°	367.5	366.7	365.3	366.7	368.2	369.0	369.7	377.2	384.7	389.9	398.1
45°	347.3	346.6	345.1	345.8	345.8	347.3	349.6	352.6	357.8	362.3	366.7
47.5°	328.7	327.2	324.9	324.2	325.7	325.7	325.7	328.7	333.9	335.4	339.9
50°	309.2	307.0	304.0	302.5	302.5	301.8	303.3	304.0	308.5	310.0	313.7
52.5°	288.3	286.8	283.8	280.8	281.6	280.1	280.8	281.6	283.1	285.3	287.6
55°	267.4	264.4	262.2	261.4	259.2	259.2	256.9	259.9	259.2	259.9	262.9
57.5°	247.2	244.2	240.5	239.0	236.8	236.0	234.5	233.8	234.5	236.8	239.0
60°	223.3	221.8	219.6	217.4	215.9	213.6	212.1	212.1	211.4	211.4	212.1
62.5°	200.2	199.4	196.4	195.7	194.2	192.7	190.5	189.0	189.0	190.5	191.2
65°	177.8	177.0	174.8	174.0	170.3	168.8	168.1	167.3	165.8	165.8	165.8
67.5°	156.9	154.6	154.6	150.9	147.9	146.4	144.9	144.2	144.2	144.2	144.9
70°	133.7	133.7	131.5	129.2	126.2	127.0	124.7	122.5	122.5	121.0	121.8
72.5°	111.3	110.5	108.3	107.6	105.3	103.1	101.6	103.1	100.8	100.1	100.8
75°	89.6	88.9	87.4	85.9	86.6	84.4	82.2	81.4	81.4	79.9	79.9
77.5°	68.7	70.2	67.2	66.5	65.0	63.5	62.7	62.0	62.0	62.0	63.5
80°	47.8	48.6	48.6	47.1	47.8	45.6	45.6	45.6	43.3	44.1	44.8
82.5°	30.6	30.6	29.9	30.6	29.9	29.9	29.1	29.1	28.4	28.4	29.1
85°	17.2	16.4	15.7	17.2	16.4	16.4	15.7	15.7	15.7	15.7	15.7
87.5°	3.7	4.5	4.5	4.5	4.5	5.2	5.2	5.2	6.0	6.0	6.0
90°	10.6	10.1	9.6	9.2	8.7	7.9	7.1	6.4	5.6	5.2	4.7
92.5°	11.2	11.0	10.8	10.6	10.4	10.1	9.8	9.5	9.2	9.1	9.3
95°	18.9	18.4	17.9	17.4	16.9	16.2	15.6	14.9	14.2	13.9	15.5
97.5°	23.3	23.0	22.7	22.4	22.1	20.6	19.0	17.5	16.0	15.2	19.2
100°	27.8	27.0	26.3	25.5	24.7	23.1	21.5	19.8	18.2	17.4	24.0
102.5°	29.9	28.8	27.7	26.7	25.6	43.2	60.7	78.3	95.8	104.6	104.7
105°	30.7	29.6	28.6	27.5	26.5	52.8	79.1	105.4	131.7	144.9	143.5
107.5°	31.6	30.5	29.4	28.4	27.3	59.8	92.3	124.8	157.3	173.6	172.4
110°	37.3	47.0	56.6	66.3	75.9	103.8	131.6	159.5	187.4	201.3	200.3

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CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	54.2	95.7	137.3	178.8	220.4	222.0	223.7	225.3	227.0	227.8	226.9
115°	89.1	133.8	178.4	223.1	267.7	265.3	262.9	260.5	258.1	256.9	256.1
117.5°	236.0	249.8	263.5	277.3	291.1	289.5	287.9	286.2	284.6	283.8	282.8
120°	322.7	321.5	320.4	319.2	318.0	316.3	314.5	312.8	311.1	310.2	309.5
122.5°	345.9	345.3	344.8	344.2	343.6	341.7	339.8	337.9	336.0	335.0	334.2
125°	369.4	368.7	368.0	367.3	366.6	364.8	363.0	361.1	359.3	358.4	357.8
127.5°	391.7	390.8	389.8	388.9	387.9	386.5	385.0	383.6	382.1	381.4	380.7
130°	412.6	411.5	410.4	409.4	408.3	407.2	406.2	405.1	404.0	403.5	402.7
132.5°	432.2	431.3	430.4	429.6	428.7	427.6	426.6	425.5	424.4	423.9	423.3
135°	451.2	450.2	449.3	448.3	447.3	446.4	445.6	444.7	443.8	443.4	442.6
137.5°	469.0	468.0	467.1	466.1	465.1	464.1	463.2	462.2	461.3	460.8	460.2
140°	486.0	485.1	484.2	483.4	482.5	481.4	480.4	479.3	478.2	477.7	477.3
142.5°	501.6	500.8	500.1	499.3	498.5	497.3	496.0	494.8	493.5	492.9	492.6
145°	516.0	515.3	514.6	514.0	513.3	511.7	510.0	508.4	506.7	505.9	506.0
147.5°	528.7	528.2	527.7	527.2	526.7	525.1	523.5	521.8	520.2	519.4	519.5
150°	540.8	540.2	539.7	539.1	538.5	536.9	535.4	533.8	532.3	531.5	531.8
152.5°	551.6	551.0	550.5	549.9	549.3	547.9	546.4	545.0	543.5	542.8	543.2
155°	561.2	560.6	560.1	559.5	558.9	557.7	556.6	555.4	554.3	553.7	554.1
157.5°	569.8	569.1	568.4	567.8	567.1	566.2	565.4	564.5	563.6	563.2	563.6
160°	576.8	576.2	575.7	575.1	574.5	573.9	573.3	572.8	572.2	571.9	572.2
162.5°	583.7	583.0	582.3	581.7	581.0	580.5	580.0	579.5	579.0	578.8	579.1
165°	588.9	588.2	587.5	586.9	586.2	585.9	585.6	585.3	585.0	584.9	585.2
167.5°	593.7	593.0	592.3	591.7	591.0	590.7	590.4	590.1	589.8	589.7	590.0
170°	597.2	596.5	595.8	595.1	594.4	594.2	594.0	593.9	593.7	593.6	593.9
172.5°	599.8	599.1	598.4	597.7	597.0	596.8	596.6	596.5	596.3	596.2	596.5
175°	601.5	600.8	600.1	599.5	598.8	598.6	598.4	598.2	598.0	597.9	598.2
177.5°	601.9	601.2	600.5	599.9	599.2	599.1	599.0	598.9	598.8	598.8	599.1
180°	599.6	599.6	599.6	599.6	599.6	599.6	599.6	599.6	599.6	599.6	599.6

TEST NUMBER: P1029515

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	971.8	971.8	971.8	971.8
2.5°	953.8	953.8	965.0	977.0
5°	932.9	938.1	956.1	972.5
7.5°	912.8	921.7	944.1	965.0
10°	888.1	900.1	927.7	952.3
12.5°	864.2	875.4	907.5	935.2
15°	830.6	844.8	879.1	913.5
17.5°	797.0	811.2	853.0	893.3
20°	757.4	776.1	823.1	876.9
22.5°	720.8	743.9	796.2	839.6
25°	680.5	716.3	764.9	820.9
27.5°	644.6	680.5	729.8	786.5
30°	604.3	640.9	691.7	743.9
32.5°	565.4	599.0	648.3	712.6
35°	525.1	557.2	605.0	670.0
37.5°	488.5	519.9	572.2	631.9
40°	452.6	485.5	530.3	590.1
42.5°	419.0	448.2	488.5	548.2
45°	388.4	409.3	446.7	502.7
47.5°	356.3	375.0	409.3	465.3
50°	326.4	342.1	372.0	424.3
52.5°	297.3	310.7	338.4	380.2
55°	271.1	283.8	304.0	345.1
57.5°	244.2	254.0	273.4	306.2
60°	218.1	227.1	242.8	269.6
62.5°	192.0	199.4	214.4	236.0
65°	168.8	174.8	186.0	204.7
67.5°	146.4	150.1	159.1	174.0
70°	124.7	127.7	135.2	147.1
72.5°	101.6	104.6	112.8	121.0
75°	82.2	82.9	88.9	95.6
77.5°	64.2	63.5	68.0	73.2
80°	44.1	46.3	50.0	52.3
82.5°	29.9	30.6	32.1	33.6
85°	16.4	17.2	17.2	19.4
87.5°	6.7	7.5	7.5	8.2
90°	3.6	2.5	1.5	0.4
92.5°	9.7	10.0	10.4	10.8
95°	18.7	21.8	25.0	28.2
97.5°	27.1	35.0	42.9	50.8
100°	37.2	50.4	63.6	76.8
102.5°	104.9	105.0	105.2	105.4
105°	140.6	137.7	134.8	131.9
107.5°	170.0	167.5	165.1	162.7
110°	198.3	196.2	194.2	192.2

TEST NUMBER: P1029515

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	225.2	223.5	221.7	220.0
115°	254.4	252.8	251.1	249.5
117.5°	280.9	279.0	277.0	275.1
120°	308.0	306.6	305.1	303.7
122.5°	332.7	331.1	329.6	328.0
125°	356.5	355.3	354.0	352.8
127.5°	379.4	378.0	376.7	375.3
130°	401.2	399.7	398.1	396.6
132.5°	422.0	420.8	419.5	418.3
135°	441.1	439.6	438.0	436.5
137.5°	459.1	457.9	456.8	455.6
140°	476.5	475.8	475.0	474.2
142.5°	491.9	491.2	490.6	489.9
145°	506.1	506.2	506.3	506.4
147.5°	519.8	520.1	520.4	520.7
150°	532.5	533.2	533.9	534.6
152.5°	544.0	544.7	545.5	546.3
155°	555.0	555.9	556.7	557.6
157.5°	564.4	565.1	565.9	566.7
160°	572.8	573.3	573.9	574.5
162.5°	579.7	580.2	580.8	581.4
165°	585.8	586.3	586.9	587.5
167.5°	590.6	591.1	591.7	592.3
170°	594.5	595.0	595.6	596.2
172.5°	597.1	597.6	598.2	598.8
175°	598.9	599.6	600.2	600.9
177.5°	599.8	600.5	601.1	601.8
180°	599.6	599.6	599.6	599.6

(END OF REPORT)