

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: P1029514

Luminaire Tested: S122DIW-B485D435UB2750-4F0-XX-W2A-A_3000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029514
REPORT IS A COMBINATION OF REPORTS P986118 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_3000K
Description: Define 2 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

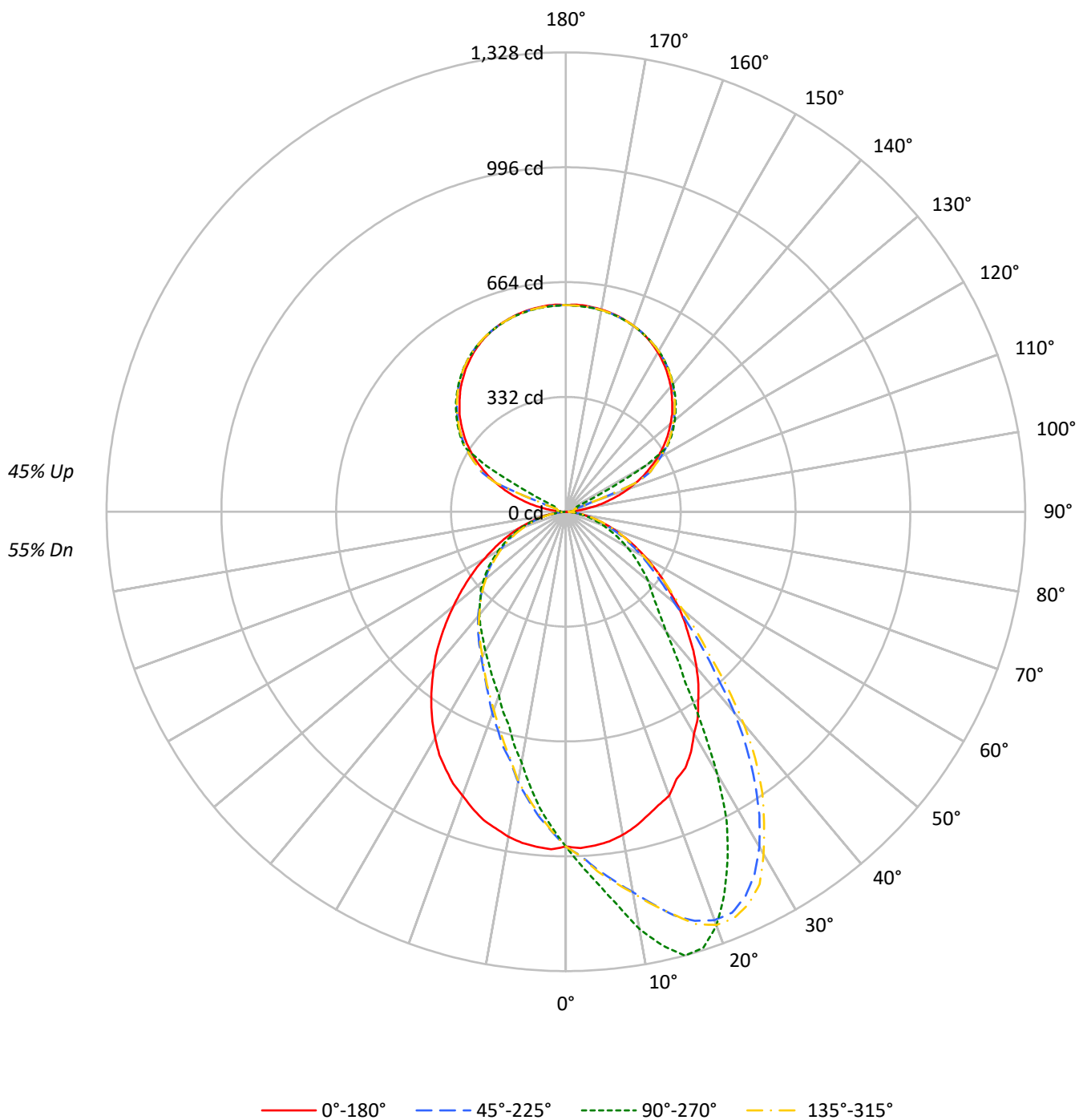
Lumens per Lamp: N/A
Luminaire Lumens: 3887.0 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.23
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	50	30	10
RCR																				
0	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61			55
1	99	95	92	88	92	89	85	83	76	74	72	65	63	62	54	53	52			47
2	91	84	78	73	84	78	73	69	67	64	60	58	55	52	49	47	45			41
3	83	74	67	61	77	69	63	58	60	55	51	51	48	45	44	41	39			35
4	77	66	58	52	71	62	55	50	54	48	44	46	42	39	39	36	34			30
5	70	59	51	45	65	55	48	43	48	43	39	42	38	34	36	32	30			27
6	65	53	45	40	60	50	43	38	44	38	34	38	34	30	33	29	27			24
7	60	48	41	35	56	45	38	33	40	34	30	35	30	27	30	26	24			21
8	56	44	36	31	52	41	35	30	37	31	27	32	27	24	28	24	22			19
9	52	40	33	28	49	38	31	27	34	28	24	29	25	22	26	22	20			18
10	49	37	30	25	46	35	29	24	31	26	22	27	23	20	24	20	18			16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15318	15318	15318	15318
5°	15354	16332	15413	12993
10°	15176	17829	15272	10713
15°	14809	18805	15014	9023
20°	14577	17657	14577	7843
25°	14112	15170	14178	7013
30°	13348	11925	13604	6353
35°	12671	8246	12882	5813
40°	11892	6226	12028	5382
45°	10933	5116	11112	4916
50°	10103	4491	10120	4501
55°	9156	3826	9217	4049
60°	8148	3196	8260	3535
65°	7245	2599	7376	3018
70°	6344	2040	6505	2434
75°	5326	1481	5533	1765
80°	4160	938	4455	1047
85°	2726	473	2938	350

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°

Vertical Angle: 45°

Luminance: 15834 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.2	2.4
10°-20°	268.3	6.9
20°-30°	389.3	10.0
30°-40°	410.4	10.6
40°-50°	363.2	9.3
50°-60°	290.0	7.5
60°-70°	197.0	5.1
70°-80°	100.8	2.6
80°-90°	24.9	0.6
90°-100°	19.7	0.5
100°-110°	73.4	1.9
110°-120°	194.7	5.0
120°-130°	322.9	8.3
130°-140°	343.0	8.8
140°-150°	318.8	8.2
150°-160°	256.3	6.6
160°-170°	165.2	4.2
170°-180°	56.8	1.5
0°-30°	749.8	19.3
0°-40°	1160.2	29.8
0°-60°	1813.4	46.7
0°-90°	2136.1	55.0
90°-120°	287.8	7.4
90°-150°	1272.6	32.7
90°-180°	1751.0	45.0
0°-180°	3887.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	968	968	968	968	968	
5°	968	1081	972	860	968	92
15°	910	1328	922	637	910	257
25°	817	1107	821	512	817	374
35°	667	602	678	425	667	417
45°	501	363	509	349	501	388
55°	344	255	346	270	344	307
65°	204	157	208	182	204	203
75°	95	77	99	92	95	102
85°	19	20	21	15	19	23
90°	0	12	0	12	0	3
95°	28	19	28	19	28	33
105°	131	33	131	33	131	140
115°	248	35	248	35	248	245
125°	351	370	351	370	351	313
135°	435	449	435	449	435	336
145°	504	512	504	512	504	315
155°	555	556	555	556	555	256
165°	585	584	585	584	585	165
175°	599	595	599	595	599	57
180°	597	597	597	597	597	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7
2.5°	972.9	975.1	978.8	979.6	987.0	993.0	999.7	999.7	1001.9	1001.2	995.2
5°	968.4	975.1	984.8	993.0	1006.4	1012.3	1021.2	1027.9	1033.9	1038.3	1037.6
7.5°	961.0	972.9	987.0	1002.6	1020.5	1030.9	1043.5	1055.4	1063.6	1071.1	1076.3
10°	948.3	968.4	987.8	1008.6	1031.6	1045.8	1060.7	1076.3	1088.9	1103.1	1116.4
12.5°	931.2	960.2	984.0	1011.6	1039.8	1055.4	1079.3	1091.2	1115.7	1151.4	1161.1
15°	909.7	949.1	971.4	1006.4	1043.5	1056.2	1088.9	1108.3	1158.8	1181.2	1207.9
17.5°	889.6	933.5	963.2	1003.4	1039.8	1064.4	1096.4	1135.8	1178.2	1210.2	1239.9
20°	873.2	915.6	951.3	995.9	1042.1	1073.3	1106.8	1154.4	1200.5	1233.2	1256.3
22.5°	836.0	890.3	932.0	981.8	1037.6	1080.7	1112.7	1164.8	1214.6	1234.7	1254.8
25°	817.4	864.3	912.6	969.2	1034.6	1085.9	1113.5	1171.5	1215.4	1222.8	1227.3
27.5°	783.2	836.0	892.6	957.3	1033.9	1077.0	1112.0	1164.8	1199.7	1194.5	1181.2
30°	740.8	805.5	868.0	937.9	1023.5	1070.3	1103.1	1151.4	1169.3	1142.5	1118.7
32.5°	709.6	770.6	839.7	920.8	1011.6	1056.2	1088.2	1126.1	1129.8	1081.5	1041.3
35°	667.2	734.9	813.0	898.5	991.5	1031.6	1061.4	1084.5	1066.6	998.9	951.3
37.5°	629.3	696.2	779.5	866.5	964.0	1003.4	1027.2	1030.9	987.0	927.5	857.6
40°	587.6	656.8	743.8	835.3	933.5	967.7	982.6	971.4	908.2	839.0	757.9
42.5°	545.9	614.4	708.1	801.8	894.8	923.8	929.7	899.3	821.9	740.8	647.1
45°	500.6	572.0	665.7	760.2	850.2	866.5	867.3	823.4	731.9	647.1	560.1
47.5°	463.4	529.6	622.6	717.0	792.9	804.0	799.6	749.0	649.3	554.1	478.3
50°	422.5	485.7	577.9	670.9	735.6	738.6	727.4	655.3	557.8	470.8	410.6
52.5°	378.6	442.6	527.4	616.6	674.6	670.2	648.6	571.2	479.7	407.6	361.5
55°	343.6	400.2	479.7	566.8	607.7	595.0	571.2	492.4	420.2	359.3	319.1
57.5°	305.0	354.8	432.9	508.8	532.6	520.7	496.9	423.2	356.3	310.2	283.4
60°	268.5	313.9	382.3	445.5	464.1	451.5	424.0	357.8	309.4	270.7	250.7
62.5°	235.0	274.5	331.7	389.8	397.2	384.5	360.7	307.2	265.5	235.0	220.2
65°	203.8	241.0	287.1	331.0	337.7	324.3	299.8	261.1	226.1	206.8	192.6
67.5°	173.3	203.1	244.0	275.9	279.7	267.0	246.9	215.7	194.1	173.3	162.9
70°	146.5	168.8	200.8	226.9	228.3	216.4	206.0	177.8	161.4	146.5	138.3
72.5°	120.5	136.1	160.7	180.0	180.7	173.3	163.6	145.8	131.7	121.2	113.1
75°	95.2	108.6	123.5	140.6	139.8	133.9	126.4	115.3	103.4	96.7	93.0
77.5°	72.9	81.1	93.0	104.1	104.1	101.2	96.7	88.5	81.1	74.4	70.7
80°	52.1	57.3	66.9	70.7	72.1	71.4	67.7	61.7	58.8	53.6	52.1
82.5°	33.5	37.2	41.7	45.4	47.6	46.1	45.4	42.4	37.9	36.4	35.0
85°	19.3	20.8	23.1	25.3	26.0	25.3	26.8	24.5	22.3	22.3	21.6
87.5°	8.2	8.9	10.4	10.4	11.2	11.2	10.4	11.2	11.2	10.4	9.7
90°	0.4	1.5	2.5	3.6	4.7	5.2	5.6	6.3	7.1	7.8	8.6
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°	28.1	24.9	21.7	18.6	15.4	13.8	14.1	14.8	15.5	16.2	16.9
97.5°	50.6	42.7	34.8	26.9	19.0	15.1	15.9	17.4	18.9	20.5	22.0
100°	76.5	63.3	50.2	37.0	23.9	17.3	18.1	19.7	21.4	23.0	24.6
102.5°	105.0	104.8	104.6	104.5	104.3	104.2	95.5	78.0	60.5	43.0	25.5
105°	131.4	134.3	137.1	140.0	142.9	144.3	131.2	105.0	78.8	52.6	26.4
107.5°	162.1	164.5	166.9	169.3	171.7	172.9	156.7	124.3	92.0	59.6	27.2
110°	191.5	193.5	195.5	197.5	199.5	200.5	186.6	158.9	131.1	103.4	75.6

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	219.1	220.8	222.6	224.3	226.0	226.9	226.1	224.4	222.8	221.1	219.5
115°	248.5	250.1	251.7	253.4	255.0	255.8	257.0	259.4	261.8	264.2	266.6
117.5°	274.0	275.9	277.8	279.7	281.6	282.6	283.4	285.1	286.7	288.4	290.0
120°	302.5	303.9	305.4	306.8	308.3	309.0	309.9	311.6	313.3	315.1	316.8
122.5°	326.7	328.2	329.8	331.3	332.8	333.6	334.6	336.5	338.4	340.4	342.3
125°	351.4	352.6	353.9	355.1	356.4	357.0	357.9	359.7	361.6	363.4	365.2
127.5°	373.8	375.2	376.5	377.9	379.2	379.9	380.6	382.1	383.5	385.0	386.4
130°	395.0	396.5	398.1	399.6	401.1	401.9	402.4	403.5	404.6	405.6	406.7
132.5°	416.6	417.8	419.1	420.3	421.6	422.2	422.7	423.8	424.9	425.9	427.0
135°	434.8	436.3	437.9	439.4	440.9	441.7	442.1	443.0	443.9	444.7	445.6
137.5°	453.8	455.0	456.1	457.3	458.4	459.0	459.5	460.4	461.4	462.3	463.3
140°	472.4	473.2	473.9	474.7	475.4	475.8	476.3	477.4	478.5	479.5	480.6
142.5°	487.9	488.6	489.2	489.9	490.6	490.9	491.5	492.8	494.1	495.3	496.6
145°	504.3	504.2	504.1	504.0	503.9	503.9	504.7	506.4	508.0	509.7	511.3
147.5°	518.6	518.3	518.0	517.7	517.4	517.3	518.1	519.8	521.4	523.1	524.7
150°	532.4	531.7	531.1	530.4	529.7	529.4	530.2	531.7	533.2	534.8	536.3
152.5°	544.1	543.3	542.5	541.8	541.0	540.6	541.3	542.8	544.2	545.7	547.1
155°	555.3	554.4	553.6	552.7	551.8	551.4	552.0	553.1	554.3	555.4	556.6
157.5°	564.4	563.6	562.9	562.1	561.4	561.0	561.4	562.3	563.1	564.0	564.8
160°	572.2	571.6	571.0	570.5	569.9	569.6	569.9	570.5	571.0	571.6	572.2
162.5°	579.1	578.5	577.9	577.4	576.8	576.5	576.7	577.2	577.7	578.2	578.7
165°	585.2	584.6	584.0	583.5	582.9	582.6	582.7	583.0	583.3	583.6	583.9
167.5°	589.9	589.3	588.7	588.2	587.6	587.3	587.4	587.7	588.0	588.3	588.6
170°	593.8	593.2	592.6	592.1	591.5	591.2	591.3	591.5	591.7	591.9	592.1
172.5°	596.4	595.8	595.2	594.7	594.1	593.8	593.9	594.1	594.3	594.5	594.7
175°	598.6	597.9	597.2	596.5	595.8	595.5	595.6	595.8	596.0	596.2	596.4
177.5°	599.4	598.7	598.1	597.4	596.7	596.4	596.4	596.5	596.6	596.7	596.8
180°	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7
2.5°	1005.6	1006.4	1007.8	1015.3	1019.0	1019.7	1016.8	1023.5	1025.7	1023.5	1022.0
5°	1053.2	1057.7	1066.6	1076.3	1075.5	1076.3	1080.7	1085.2	1086.7	1080.7	1083.0
7.5°	1094.9	1103.8	1113.5	1128.3	1128.3	1135.8	1138.8	1142.5	1151.4	1146.9	1145.4
10°	1142.5	1154.4	1172.2	1196.0	1196.8	1204.2	1211.6	1223.5	1227.3	1224.3	1225.8
12.5°	1202.0	1225.0	1226.5	1252.6	1264.5	1265.9	1277.8	1275.6	1283.1	1283.1	1295.7
15°	1228.0	1263.7	1283.8	1309.1	1316.5	1307.6	1317.3	1327.7	1328.4	1328.4	1327.7
17.5°	1274.9	1289.0	1309.1	1322.5	1325.4	1325.4	1326.2	1330.7	1327.7	1321.7	1326.2
20°	1284.5	1290.5	1297.9	1296.4	1297.9	1290.5	1283.1	1275.6	1276.4	1272.6	1283.8
22.5°	1266.7	1265.2	1248.1	1236.9	1236.9	1222.1	1207.9	1201.2	1194.5	1196.8	1200.5
25°	1222.1	1199.0	1178.2	1161.8	1158.1	1134.3	1115.0	1109.0	1097.8	1106.8	1108.3
27.5°	1150.7	1124.6	1091.2	1077.0	1057.7	1048.0	1034.6	1016.8	993.7	1007.1	1004.9
30°	1074.0	1035.4	1007.8	973.6	943.1	940.9	915.6	885.9	874.0	874.0	880.7
32.5°	988.5	937.2	897.0	848.7	818.9	806.3	775.8	746.0	752.7	730.4	738.6
35°	888.8	821.2	770.6	723.7	701.4	686.5	647.1	630.7	612.9	602.5	621.8
37.5°	793.6	715.5	650.8	599.5	591.3	564.5	537.8	527.4	516.9	521.4	520.7
40°	677.6	608.4	550.4	510.2	496.1	483.5	465.6	453.0	446.3	450.0	450.7
42.5°	572.7	514.7	471.6	443.3	431.4	422.5	413.6	403.1	400.9	400.9	403.9
45°	491.7	444.0	415.0	392.0	385.3	378.6	371.9	367.4	365.9	363.0	365.2
47.5°	426.9	389.0	371.2	354.0	346.6	345.1	339.2	336.9	334.0	333.2	334.0
50°	372.6	348.8	332.5	322.8	317.6	315.4	312.4	307.9	306.4	310.2	308.7
52.5°	334.7	312.4	303.5	293.8	290.8	287.8	283.4	284.1	283.4	281.9	281.9
55°	296.8	282.6	273.7	266.3	265.5	262.6	258.8	257.4	256.6	255.1	257.4
57.5°	266.3	255.1	246.9	240.2	237.3	237.3	233.6	230.6	230.6	229.8	230.6
60°	235.8	224.6	219.4	212.7	210.5	209.8	207.5	206.0	203.8	203.8	203.8
62.5°	207.5	198.6	192.6	186.7	187.4	183.7	180.7	179.3	179.3	180.0	180.0
65°	180.7	174.8	167.4	162.1	160.7	159.9	158.4	157.7	155.5	156.9	156.9
67.5°	156.2	148.0	143.6	141.3	139.1	138.3	136.9	135.4	134.6	133.9	135.4
70°	131.7	125.0	121.2	119.8	117.5	116.8	116.0	113.8	114.5	115.3	116.0
72.5°	109.3	103.4	102.6	98.2	98.2	98.2	95.2	96.7	95.9	94.5	95.9
75°	86.3	83.3	81.8	79.6	80.3	79.6	78.8	76.6	76.6	77.4	78.1
77.5°	68.4	65.5	64.7	62.5	61.0	62.5	61.0	60.2	60.2	61.0	61.0
80°	50.6	49.1	46.9	46.9	46.9	46.1	46.1	46.1	45.4	44.6	45.4
82.5°	33.5	33.5	32.7	32.0	32.7	31.2	32.0	32.0	32.0	32.0	32.0
85°	21.6	20.8	20.8	20.1	20.1	20.1	20.8	19.3	19.3	20.1	20.1
87.5°	9.7	9.7	9.7	10.4	9.7	9.7	9.7	10.4	9.7	9.7	9.7
90°	9.1	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	10.9	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.6
95°	17.4	17.8	18.3	18.8	19.0	19.0	18.9	18.8	18.7	18.6	18.7
97.5°	22.3	22.6	22.9	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.7
100°	25.4	26.2	26.9	27.7	28.1	28.2	28.4	28.6	28.8	29.0	28.8
102.5°	26.6	27.6	28.7	29.8	30.3	30.4	30.7	31.0	31.2	31.5	31.2
105°	27.4	28.5	29.5	30.6	31.1	31.3	31.7	32.0	32.4	32.8	32.4
107.5°	28.3	29.3	30.4	31.5	32.0	32.2	32.6	32.9	33.3	33.7	33.3
110°	66.0	56.4	46.8	37.2	32.4	32.6	33.0	33.3	33.7	34.1	33.7

TEST NUMBER: P1029514

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	178.1	136.7	95.4	54.0	33.3	33.4	33.7	34.0	34.3	34.6	34.3
115°	222.2	177.7	133.3	88.8	66.6	63.1	56.2	49.3	42.3	35.4	42.3
117.5°	276.3	262.5	248.8	235.1	228.2	215.6	190.5	165.3	140.2	115.0	140.2
120°	318.0	319.1	320.3	321.4	322.0	315.5	302.5	289.6	276.6	263.6	276.6
122.5°	342.9	343.5	344.0	344.6	344.9	344.9	345.0	345.1	345.2	345.3	345.2
125°	365.9	366.5	367.2	367.9	368.2	368.3	368.6	368.9	369.2	369.5	369.2
127.5°	387.4	388.3	389.3	390.2	390.7	390.7	390.8	390.9	391.0	391.1	391.0
130°	407.7	408.8	409.8	410.9	411.4	411.4	411.3	411.2	411.1	411.0	411.1
132.5°	427.9	428.7	429.6	430.5	430.9	430.8	430.7	430.6	430.5	430.4	430.5
135°	446.6	447.5	448.5	449.4	449.9	449.8	449.6	449.4	449.2	449.0	449.2
137.5°	464.3	465.2	466.2	467.1	467.6	467.5	467.2	466.9	466.6	466.3	466.6
140°	481.5	482.3	483.2	484.1	484.5	484.3	483.8	483.3	482.8	482.3	482.8
142.5°	497.4	498.1	498.9	499.6	500.0	499.8	499.3	498.8	498.4	497.9	498.4
145°	512.0	512.6	513.3	514.0	514.3	514.1	513.6	513.1	512.6	512.1	512.6
147.5°	525.2	525.6	526.1	526.6	526.8	526.6	526.2	525.9	525.5	525.1	525.5
150°	536.9	537.5	538.0	538.6	538.9	538.7	538.2	537.7	537.3	536.8	537.3
152.5°	547.7	548.3	548.8	549.4	549.7	549.4	548.7	548.0	547.4	546.7	547.4
155°	557.2	557.8	558.3	558.9	559.2	558.8	558.1	557.3	556.6	555.8	556.6
157.5°	565.5	566.2	566.9	567.6	567.9	567.5	566.7	566.0	565.2	564.4	565.2
160°	572.8	573.4	573.9	574.5	574.8	574.5	573.8	573.1	572.5	571.8	572.5
162.5°	579.4	580.0	580.7	581.4	581.7	581.3	580.4	579.5	578.7	577.8	578.7
165°	584.6	585.2	585.9	586.6	586.9	586.6	585.9	585.2	584.6	583.9	584.6
167.5°	589.3	589.9	590.6	591.3	591.6	591.2	590.3	589.4	588.6	587.7	588.6
170°	592.8	593.4	594.1	594.8	595.1	594.7	593.8	592.9	592.1	591.2	592.1
172.5°	595.4	596.0	596.7	597.4	597.7	597.3	596.4	595.5	594.7	593.8	594.7
175°	597.1	597.7	598.4	599.1	599.4	598.9	598.0	597.0	596.1	595.1	596.1
177.5°	597.5	598.2	598.9	599.6	599.9	599.5	598.6	597.7	596.9	596.0	596.9
180°	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3

TEST NUMBER: P1029514

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7
2.5°	1025.7	1020.5	1016.0	1016.8	1020.5	1017.5	1010.1	1000.4	996.7	992.2	996.7
5°	1087.4	1083.0	1074.0	1074.8	1072.6	1069.6	1057.7	1042.8	1042.8	1030.9	1029.4
7.5°	1148.4	1141.7	1135.8	1134.3	1126.1	1120.2	1109.7	1088.9	1080.7	1066.6	1058.4
10°	1216.9	1211.6	1205.0	1196.8	1192.3	1181.9	1164.8	1134.3	1119.4	1100.1	1085.9
12.5°	1286.0	1285.3	1270.4	1254.0	1253.3	1236.9	1225.0	1184.1	1164.0	1138.0	1104.5
15°	1329.9	1326.2	1318.0	1309.8	1312.1	1294.2	1267.4	1219.1	1205.7	1174.5	1138.8
17.5°	1329.2	1329.2	1326.9	1325.4	1323.2	1318.0	1303.1	1271.2	1249.6	1210.2	1176.7
20°	1286.8	1296.4	1298.7	1297.9	1305.4	1309.1	1308.3	1288.3	1271.2	1236.2	1202.0
22.5°	1202.0	1224.3	1234.0	1239.9	1255.5	1263.7	1283.1	1275.6	1271.2	1245.1	1216.1
25°	1123.1	1130.6	1159.6	1161.1	1182.6	1202.7	1222.1	1234.7	1251.1	1241.4	1216.9
27.5°	1021.2	1038.3	1059.2	1074.8	1079.3	1120.2	1152.1	1175.9	1213.1	1216.1	1207.9
30°	905.9	914.1	948.3	969.2	993.0	1022.7	1068.8	1109.7	1143.2	1173.7	1184.1
32.5°	765.4	798.8	818.9	844.2	865.0	917.8	974.4	1027.2	1065.9	1117.2	1139.5
35°	636.7	662.7	696.9	707.4	745.3	789.9	863.5	931.2	990.0	1042.1	1087.4
37.5°	530.3	551.2	587.6	604.0	626.3	683.6	745.3	829.3	900.0	964.0	1020.5
40°	457.4	473.1	500.6	505.8	524.4	576.4	626.3	705.1	798.8	885.1	946.9
42.5°	407.6	415.0	433.6	440.3	452.2	487.2	531.8	606.2	693.2	782.5	869.5
45°	371.9	377.1	388.3	394.2	409.1	424.7	461.2	520.7	589.1	679.1	772.8
47.5°	339.9	346.6	351.1	354.8	363.0	380.1	403.9	447.8	513.2	595.8	686.5
50°	313.1	315.4	323.6	324.3	329.5	340.7	363.0	389.8	441.8	508.8	596.5
52.5°	286.4	288.6	293.8	299.0	301.2	310.2	325.0	347.4	386.0	438.8	516.9
55°	259.6	262.6	267.8	271.5	273.7	281.2	290.1	311.7	342.1	379.3	443.3
57.5°	232.8	239.5	241.0	243.2	246.9	255.1	263.3	275.9	299.8	334.0	380.8
60°	207.5	209.8	215.0	217.2	220.9	225.4	235.8	245.5	262.6	289.3	331.7
62.5°	181.5	186.7	188.9	191.2	194.1	199.3	206.0	216.4	231.3	252.9	286.4
65°	159.2	159.9	164.4	167.4	170.3	174.0	180.7	190.4	199.3	219.4	244.0
67.5°	137.6	139.1	140.6	143.6	147.3	151.0	156.9	162.1	173.3	186.7	206.0
70°	116.8	116.8	120.5	122.7	122.0	126.4	130.9	136.9	145.0	157.7	173.3
72.5°	98.2	97.4	100.4	101.2	102.6	105.6	108.6	114.5	119.0	128.7	140.6
75°	78.1	79.6	81.1	81.1	83.3	85.5	88.5	91.5	96.7	102.6	111.6
77.5°	61.7	61.7	63.2	64.0	66.2	65.5	68.4	71.4	75.1	80.3	87.0
80°	45.4	46.9	46.9	46.9	47.6	48.3	51.3	53.6	55.8	59.5	62.5
82.5°	32.0	32.0	33.5	33.5	33.5	35.0	35.0	35.7	37.2	39.4	41.7
85°	20.1	20.1	20.1	20.8	20.1	20.8	22.3	21.6	22.3	23.8	23.8
87.5°	9.7	9.7	9.7	9.7	9.7	10.4	9.7	10.4	11.2	11.2	11.2
90°	11.3	11.1	10.9	10.8	10.6	10.1	9.6	9.1	8.6	7.8	7.1
92.5°	11.5	11.4	11.3	11.2	11.1	10.9	10.8	10.6	10.4	10.1	9.8
95°	18.8	18.9	19.0	19.0	18.8	18.3	17.8	17.4	16.9	16.2	15.5
97.5°	23.6	23.5	23.4	23.3	23.2	22.9	22.6	22.3	22.0	20.5	18.9
100°	28.6	28.4	28.2	28.1	27.7	26.9	26.2	25.4	24.6	23.0	21.4
102.5°	31.0	30.7	30.4	30.3	29.8	28.7	27.6	26.6	25.5	43.0	60.5
105°	32.0	31.7	31.3	31.1	30.6	29.5	28.5	27.4	26.4	52.6	78.8
107.5°	32.9	32.6	32.2	32.0	31.5	30.4	29.3	28.3	27.2	59.6	92.0
110°	33.3	33.0	32.6	32.4	37.2	46.8	56.4	66.0	75.6	103.4	131.1

TEST NUMBER: P1029514

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	34.0	33.7	33.4	33.3	54.0	95.4	136.7	178.1	219.5	221.1	222.8
115°	49.3	56.2	63.1	66.6	88.8	133.3	177.7	222.2	266.6	264.2	261.8
117.5°	165.3	190.5	215.6	228.2	235.1	248.8	262.5	276.3	290.0	288.4	286.7
120°	289.6	302.5	315.5	322.0	321.4	320.3	319.1	318.0	316.8	315.1	313.3
122.5°	345.1	345.0	344.9	344.9	344.6	344.0	343.5	342.9	342.3	340.4	338.4
125°	368.9	368.6	368.3	368.2	367.9	367.2	366.5	365.9	365.2	363.4	361.6
127.5°	390.9	390.8	390.7	390.7	390.2	389.3	388.3	387.4	386.4	385.0	383.5
130°	411.2	411.3	411.4	411.4	410.9	409.8	408.8	407.7	406.7	405.6	404.6
132.5°	430.6	430.7	430.8	430.9	430.5	429.6	428.7	427.9	427.0	425.9	424.9
135°	449.4	449.6	449.8	449.9	449.4	448.5	447.5	446.6	445.6	444.7	443.9
137.5°	466.9	467.2	467.5	467.6	467.1	466.2	465.2	464.3	463.3	462.3	461.4
140°	483.3	483.8	484.3	484.5	484.1	483.2	482.3	481.5	480.6	479.5	478.5
142.5°	498.8	499.3	499.8	500.0	499.6	498.9	498.1	497.4	496.6	495.3	494.1
145°	513.1	513.6	514.1	514.3	514.0	513.3	512.6	512.0	511.3	509.7	508.0
147.5°	525.9	526.2	526.6	526.8	526.6	526.1	525.6	525.2	524.7	523.1	521.4
150°	537.7	538.2	538.7	538.9	538.6	538.0	537.5	536.9	536.3	534.8	533.2
152.5°	548.0	548.7	549.4	549.7	549.4	548.8	548.3	547.7	547.1	545.7	544.2
155°	557.3	558.1	558.8	559.2	558.9	558.3	557.8	557.2	556.6	555.4	554.3
157.5°	566.0	566.7	567.5	567.9	567.6	566.9	566.2	565.5	564.8	564.0	563.1
160°	573.1	573.8	574.5	574.8	574.5	573.9	573.4	572.8	572.2	571.6	571.0
162.5°	579.5	580.4	581.3	581.7	581.4	580.7	580.0	579.4	578.7	578.2	577.7
165°	585.2	585.9	586.6	586.9	586.6	585.9	585.2	584.6	583.9	583.6	583.3
167.5°	589.4	590.3	591.2	591.6	591.3	590.6	589.9	589.3	588.6	588.3	588.0
170°	592.9	593.8	594.7	595.1	594.8	594.1	593.4	592.8	592.1	591.9	591.7
172.5°	595.5	596.4	597.3	597.7	597.4	596.7	596.0	595.4	594.7	594.5	594.3
175°	597.0	598.0	598.9	599.4	599.1	598.4	597.7	597.1	596.4	596.2	596.0
177.5°	597.7	598.6	599.5	599.9	599.6	598.9	598.2	597.5	596.8	596.7	596.6
180°	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3

TEST NUMBER: P1029514

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7
2.5°	993.0	989.3	987.0	988.5	984.0	972.9	972.9	976.6	972.1	967.7	961.0
5°	1020.5	1013.1	1008.6	1007.8	997.4	979.6	975.9	972.1	962.5	952.1	940.9
7.5°	1047.3	1033.9	1026.4	1021.2	1006.4	983.3	973.6	965.5	949.8	934.2	920.1
10°	1069.6	1050.2	1041.3	1033.1	1013.8	984.8	969.2	954.3	934.2	914.1	896.3
12.5°	1087.4	1065.1	1054.0	1042.1	1018.3	980.3	961.0	937.2	917.1	890.3	872.5
15°	1117.2	1071.1	1060.7	1049.5	1025.0	972.9	949.1	922.3	894.8	859.1	839.7
17.5°	1141.0	1079.3	1078.5	1054.7	1022.7	969.9	933.5	898.5	868.8	833.1	802.6
20°	1155.1	1091.9	1080.0	1055.4	1015.3	949.8	911.9	873.2	841.2	798.1	767.6
22.5°	1167.0	1109.7	1078.5	1048.8	999.7	943.1	887.4	850.9	807.0	760.2	731.2
25°	1171.5	1113.5	1080.7	1046.5	988.5	923.8	860.6	821.2	772.1	729.7	690.2
27.5°	1172.2	1112.7	1072.6	1036.9	972.9	898.5	833.8	792.1	737.8	688.8	649.3
30°	1164.8	1104.5	1068.1	1029.4	958.0	875.5	801.1	755.0	696.9	647.8	606.9
32.5°	1142.5	1088.2	1058.4	1016.0	938.7	843.5	769.8	718.5	657.5	609.2	569.7
35°	1105.3	1068.1	1035.4	995.9	913.4	813.7	738.6	678.3	616.6	570.5	533.3
37.5°	1059.2	1039.1	1008.6	969.9	884.4	786.9	703.6	636.7	575.0	530.3	493.9
40°	996.7	1001.9	972.1	937.2	850.2	750.5	658.3	594.3	536.3	494.6	458.9
42.5°	929.0	950.6	933.5	900.0	812.2	710.3	624.8	554.1	497.6	454.5	424.7
45°	856.1	893.3	882.9	858.3	772.8	667.9	577.2	508.8	458.9	417.3	391.2
47.5°	776.5	829.3	829.3	811.5	728.9	625.5	536.3	466.4	417.3	387.5	362.2
50°	695.5	755.0	764.6	752.7	679.8	577.2	486.4	423.2	380.8	351.8	333.2
52.5°	610.7	679.8	697.7	691.7	627.8	531.1	445.5	383.8	345.1	319.8	303.5
55°	529.6	609.9	629.3	631.5	572.0	480.5	400.2	345.9	308.7	291.6	277.4
57.5°	453.0	530.3	551.9	555.6	515.5	434.4	357.8	310.2	276.7	262.6	251.4
60°	387.5	452.2	480.5	488.7	453.7	380.8	318.3	272.2	246.9	233.6	223.1
62.5°	334.0	386.0	415.8	418.0	402.4	334.0	277.4	238.8	217.2	205.3	200.1
65°	281.9	328.8	346.6	355.5	342.9	289.3	239.5	207.5	190.4	180.0	174.8
67.5°	240.2	270.0	284.9	296.8	284.1	244.0	203.8	177.8	165.1	154.7	151.7
70°	197.1	221.7	232.8	244.7	233.6	203.1	174.0	150.2	139.1	130.9	127.2
72.5°	157.7	177.0	187.4	194.9	188.2	162.9	139.1	122.7	114.5	108.6	106.4
75°	125.0	138.3	144.3	149.5	146.5	127.2	112.3	98.9	91.5	86.3	84.8
77.5°	95.2	104.9	111.6	113.1	109.3	96.7	84.0	75.9	69.9	66.9	65.5
80°	67.7	73.6	77.4	79.6	75.9	70.7	61.7	55.8	50.6	46.9	46.1
82.5°	45.4	48.3	51.3	50.6	49.1	44.6	39.4	36.4	34.2	31.2	31.2
85°	26.0	26.8	28.3	29.0	28.3	25.3	22.3	20.8	19.3	17.1	17.1
87.5°	11.2	11.9	11.9	12.6	11.2	11.2	9.7	8.2	8.2	7.4	6.7
90°	6.3	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°	14.8	14.1	13.8	15.4	18.6	21.7	24.9	28.1	24.9	21.7	18.6
97.5°	17.4	15.9	15.1	19.0	26.9	34.8	42.7	50.6	42.7	34.8	26.9
100°	19.7	18.1	17.3	23.9	37.0	50.2	63.3	76.5	63.3	50.2	37.0
102.5°	78.0	95.5	104.2	104.3	104.5	104.6	104.8	105.0	104.8	104.6	104.5
105°	105.0	131.2	144.3	142.9	140.0	137.1	134.3	131.4	134.3	137.1	140.0
107.5°	124.3	156.7	172.9	171.7	169.3	166.9	164.5	162.1	164.5	166.9	169.3
110°	158.9	186.6	200.5	199.5	197.5	195.5	193.5	191.5	193.5	195.5	197.5

TEST NUMBER: P1029514

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	224.4	226.1	226.9	226.0	224.3	222.6	220.8	219.1	220.8	222.6	224.3
115°	259.4	257.0	255.8	255.0	253.4	251.7	250.1	248.5	250.1	251.7	253.4
117.5°	285.1	283.4	282.6	281.6	279.7	277.8	275.9	274.0	275.9	277.8	279.7
120°	311.6	309.9	309.0	308.3	306.8	305.4	303.9	302.5	303.9	305.4	306.8
122.5°	336.5	334.6	333.6	332.8	331.3	329.8	328.2	326.7	328.2	329.8	331.3
125°	359.7	357.9	357.0	356.4	355.1	353.9	352.6	351.4	352.6	353.9	355.1
127.5°	382.1	380.6	379.9	379.2	377.9	376.5	375.2	373.8	375.2	376.5	377.9
130°	403.5	402.4	401.9	401.1	399.6	398.1	396.5	395.0	396.5	398.1	399.6
132.5°	423.8	422.7	422.2	421.6	420.3	419.1	417.8	416.6	417.8	419.1	420.3
135°	443.0	442.1	441.7	440.9	439.4	437.9	436.3	434.8	436.3	437.9	439.4
137.5°	460.4	459.5	459.0	458.4	457.3	456.1	455.0	453.8	455.0	456.1	457.3
140°	477.4	476.3	475.8	475.4	474.7	473.9	473.2	472.4	473.2	473.9	474.7
142.5°	492.8	491.5	490.9	490.6	489.9	489.2	488.6	487.9	488.6	489.2	489.9
145°	506.4	504.7	503.9	503.9	504.0	504.1	504.2	504.3	504.2	504.1	504.0
147.5°	519.8	518.1	517.3	517.4	517.7	518.0	518.3	518.6	518.3	518.0	517.7
150°	531.7	530.2	529.4	529.7	530.4	531.1	531.7	532.4	531.7	531.1	530.4
152.5°	542.8	541.3	540.6	541.0	541.8	542.5	543.3	544.1	543.3	542.5	541.8
155°	553.1	552.0	551.4	551.8	552.7	553.6	554.4	555.3	554.4	553.6	552.7
157.5°	562.3	561.4	561.0	561.4	562.1	562.9	563.6	564.4	563.6	562.9	562.1
160°	570.5	569.9	569.6	569.9	570.5	571.0	571.6	572.2	571.6	571.0	570.5
162.5°	577.2	576.7	576.5	576.8	577.4	577.9	578.5	579.1	578.5	577.9	577.4
165°	583.0	582.7	582.6	582.9	583.5	584.0	584.6	585.2	584.6	584.0	583.5
167.5°	587.7	587.4	587.3	587.6	588.2	588.7	589.3	589.9	589.3	588.7	588.2
170°	591.5	591.3	591.2	591.5	592.1	592.6	593.2	593.8	593.2	592.6	592.1
172.5°	594.1	593.9	593.8	594.1	594.7	595.2	595.8	596.4	595.8	595.2	594.7
175°	595.8	595.6	595.5	595.8	596.5	597.2	597.9	598.6	597.9	597.2	596.5
177.5°	596.5	596.4	596.4	596.7	597.4	598.1	598.7	599.4	598.7	598.1	597.4
180°	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3

TEST NUMBER: P1029514

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7
2.5°	957.3	961.0	960.2	952.8	944.6	937.9	925.3	926.8	922.3	923.1	927.5
5°	933.5	933.5	930.5	920.1	906.7	899.3	885.1	881.4	872.5	871.7	871.0
7.5°	908.2	904.5	900.7	885.9	869.5	857.6	838.3	833.8	824.9	818.9	815.9
10°	878.4	873.2	865.8	848.7	828.6	813.7	793.6	787.7	770.6	763.1	758.7
12.5°	845.7	842.7	830.8	816.7	784.0	767.6	738.6	744.5	727.4	712.6	710.3
15°	813.0	801.8	795.1	772.1	732.6	725.2	702.1	690.2	674.6	662.7	662.7
17.5°	781.0	763.9	749.0	724.5	695.5	674.6	657.5	651.6	632.2	620.3	618.1
20°	738.6	719.3	715.5	680.6	660.5	637.4	621.1	606.2	592.1	586.9	583.1
22.5°	698.4	676.1	670.2	640.4	620.3	597.3	580.9	570.5	560.1	556.4	549.7
25°	655.3	641.9	633.0	601.0	578.7	557.1	545.9	538.5	528.8	528.1	523.6
27.5°	613.6	601.0	592.1	561.6	545.2	525.1	516.2	508.0	502.8	500.6	498.3
30°	577.9	563.8	553.4	531.1	511.0	494.6	487.2	482.0	479.0	475.3	474.5
32.5°	538.5	530.3	516.2	499.1	483.5	467.8	463.4	459.7	455.2	453.7	453.0
35°	505.0	493.9	485.0	465.6	458.9	445.5	440.3	437.4	431.4	429.9	428.4
37.5°	472.3	461.9	452.2	440.3	427.7	420.2	417.3	412.8	409.8	410.6	409.1
40°	439.6	431.4	424.0	411.3	403.9	400.2	394.2	389.8	388.3	389.0	388.3
42.5°	407.6	400.2	395.7	386.0	378.6	374.9	371.2	366.7	368.9	368.9	371.2
45°	378.6	371.9	368.9	361.5	357.0	351.1	347.4	346.6	349.6	348.8	348.8
47.5°	348.8	346.6	342.9	336.2	330.2	326.5	325.8	325.8	328.8	330.2	329.5
50°	325.8	321.3	316.9	311.7	307.2	305.7	303.5	305.0	307.9	307.9	309.4
52.5°	296.8	293.8	292.3	287.8	284.9	284.9	284.9	285.6	287.8	290.1	289.3
55°	271.5	269.3	267.8	265.5	261.8	262.6	261.8	263.3	265.5	267.8	269.3
57.5°	244.7	244.0	242.5	238.8	238.8	238.0	240.2	241.0	244.7	246.2	248.4
60°	220.9	218.7	218.7	215.7	215.7	215.7	217.9	220.2	223.1	223.9	225.4
62.5°	195.6	195.6	194.9	192.6	192.6	194.9	195.6	198.6	200.1	200.1	202.3
65°	171.8	171.1	170.3	171.1	171.8	171.8	174.0	175.5	177.0	177.8	178.5
67.5°	148.0	147.3	148.8	148.0	149.5	152.5	151.7	154.0	156.2	156.2	156.9
70°	125.7	127.2	126.4	127.9	127.2	128.7	130.9	131.7	131.7	132.4	134.6
72.5°	104.9	104.9	104.9	104.1	104.9	106.4	107.9	108.6	110.1	110.8	113.1
75°	84.8	84.8	83.3	84.8	84.8	86.3	87.8	87.8	87.8	89.3	91.5
77.5°	64.0	64.7	64.0	65.5	65.5	66.2	67.7	66.9	68.4	69.2	69.9
80°	46.9	46.1	46.1	46.1	46.9	46.9	48.3	49.1	49.1	51.3	49.8
82.5°	29.8	30.5	29.8	30.5	30.5	31.2	30.5	31.2	32.0	33.5	32.7
85°	17.1	16.4	16.4	17.1	16.4	16.4	17.1	16.4	17.1	16.4	17.1
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	6.3	7.1	7.8	8.6	9.1	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	10.9	11.1
95°	15.4	13.8	14.1	14.8	15.5	16.2	16.9	17.4	17.8	18.3	18.8
97.5°	19.0	15.1	15.9	17.4	18.9	20.5	22.0	22.3	22.6	22.9	23.2
100°	23.9	17.3	18.1	19.7	21.4	23.0	24.6	25.4	26.2	26.9	27.7
102.5°	104.3	104.2	95.5	78.0	60.5	43.0	25.5	26.6	27.6	28.7	29.8
105°	142.9	144.3	131.2	105.0	78.8	52.6	26.4	27.4	28.5	29.5	30.6
107.5°	171.7	172.9	156.7	124.3	92.0	59.6	27.2	28.3	29.3	30.4	31.5
110°	199.5	200.5	186.6	158.9	131.1	103.4	75.6	66.0	56.4	46.8	37.2

TEST NUMBER: P1029514

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	226.0	226.9	226.1	224.4	222.8	221.1	219.5	178.1	136.7	95.4	54.0
115°	255.0	255.8	257.0	259.4	261.8	264.2	266.6	222.2	177.7	133.3	88.8
117.5°	281.6	282.6	283.4	285.1	286.7	288.4	290.0	276.3	262.5	248.8	235.1
120°	308.3	309.0	309.9	311.6	313.3	315.1	316.8	318.0	319.1	320.3	321.4
122.5°	332.8	333.6	334.6	336.5	338.4	340.4	342.3	342.9	343.5	344.0	344.6
125°	356.4	357.0	357.9	359.7	361.6	363.4	365.2	365.9	366.5	367.2	367.9
127.5°	379.2	379.9	380.6	382.1	383.5	385.0	386.4	387.4	388.3	389.3	390.2
130°	401.1	401.9	402.4	403.5	404.6	405.6	406.7	407.7	408.8	409.8	410.9
132.5°	421.6	422.2	422.7	423.8	424.9	425.9	427.0	427.9	428.7	429.6	430.5
135°	440.9	441.7	442.1	443.0	443.9	444.7	445.6	446.6	447.5	448.5	449.4
137.5°	458.4	459.0	459.5	460.4	461.4	462.3	463.3	464.3	465.2	466.2	467.1
140°	475.4	475.8	476.3	477.4	478.5	479.5	480.6	481.5	482.3	483.2	484.1
142.5°	490.6	490.9	491.5	492.8	494.1	495.3	496.6	497.4	498.1	498.9	499.6
145°	503.9	503.9	504.7	506.4	508.0	509.7	511.3	512.0	512.6	513.3	514.0
147.5°	517.4	517.3	518.1	519.8	521.4	523.1	524.7	525.2	525.6	526.1	526.6
150°	529.7	529.4	530.2	531.7	533.2	534.8	536.3	536.9	537.5	538.0	538.6
152.5°	541.0	540.6	541.3	542.8	544.2	545.7	547.1	547.7	548.3	548.8	549.4
155°	551.8	551.4	552.0	553.1	554.3	555.4	556.6	557.2	557.8	558.3	558.9
157.5°	561.4	561.0	561.4	562.3	563.1	564.0	564.8	565.5	566.2	566.9	567.6
160°	569.9	569.6	569.9	570.5	571.0	571.6	572.2	572.8	573.4	573.9	574.5
162.5°	576.8	576.5	576.7	577.2	577.7	578.2	578.7	579.4	580.0	580.7	581.4
165°	582.9	582.6	582.7	583.0	583.3	583.6	583.9	584.6	585.2	585.9	586.6
167.5°	587.6	587.3	587.4	587.7	588.0	588.3	588.6	589.3	589.9	590.6	591.3
170°	591.5	591.2	591.3	591.5	591.7	591.9	592.1	592.8	593.4	594.1	594.8
172.5°	594.1	593.8	593.9	594.1	594.3	594.5	594.7	595.4	596.0	596.7	597.4
175°	595.8	595.5	595.6	595.8	596.0	596.2	596.4	597.1	597.7	598.4	599.1
177.5°	596.7	596.4	596.4	596.5	596.6	596.7	596.8	597.5	598.2	598.9	599.6
180°	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3

TEST NUMBER: P1029514

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7
2.5°	922.3	924.5	919.3	917.8	919.3	914.1	915.6	917.1	917.1	919.3	920.8
5°	868.8	865.8	860.6	859.1	857.6	859.8	858.3	860.6	861.3	866.5	867.3
7.5°	815.9	811.5	807.0	802.6	801.1	797.4	801.1	801.1	806.3	804.8	808.5
10°	753.5	752.7	746.8	744.5	741.6	735.6	743.8	741.6	745.3	752.0	753.5
12.5°	707.4	699.2	702.9	692.5	696.2	690.2	691.0	691.0	696.9	697.7	696.2
15°	663.5	656.8	647.1	642.6	640.4	637.4	647.1	647.8	643.4	653.8	650.1
17.5°	618.8	618.8	609.9	607.7	601.7	604.7	603.2	604.0	602.5	609.9	613.6
20°	580.2	576.4	573.5	574.2	566.8	565.3	563.8	565.3	570.5	575.7	577.2
22.5°	548.9	546.7	539.3	540.7	534.8	537.0	535.5	539.3	540.0	540.0	545.2
25°	519.2	516.2	516.9	514.0	511.7	511.7	509.5	511.7	514.7	516.2	516.9
27.5°	496.9	494.6	490.9	488.7	490.2	486.4	489.4	491.7	491.7	490.2	491.7
30°	470.1	471.6	471.6	464.1	467.1	465.6	467.8	469.3	469.3	470.1	468.6
32.5°	452.2	447.8	447.0	446.3	446.3	443.3	443.3	445.5	446.3	447.0	449.3
35°	428.4	428.4	424.7	426.9	424.0	424.7	424.0	424.7	426.2	424.0	426.2
37.5°	406.9	407.6	406.1	407.6	408.3	406.9	405.4	408.3	406.9	406.9	405.4
40°	388.3	387.5	388.3	388.3	388.3	389.0	387.5	387.5	387.5	386.0	384.5
42.5°	372.6	368.2	369.7	370.4	368.2	368.2	368.9	368.2	370.4	365.9	365.9
45°	350.3	348.8	349.6	349.6	351.1	348.8	350.3	351.1	348.8	348.1	346.6
47.5°	330.2	331.7	330.2	331.7	331.7	333.2	330.2	331.0	331.7	328.8	326.5
50°	310.2	310.2	312.4	311.7	312.4	310.9	310.9	310.2	310.9	309.4	307.2
52.5°	291.6	289.3	293.1	292.3	291.6	290.8	290.1	290.8	289.3	287.8	287.8
55°	268.5	268.5	270.7	271.5	271.5	270.0	268.5	269.3	268.5	267.8	267.0
57.5°	249.9	246.9	248.4	249.2	249.2	246.9	248.4	246.9	246.9	247.7	245.5
60°	226.1	226.1	224.6	226.9	226.9	225.4	225.4	226.1	224.6	223.9	223.1
62.5°	200.8	201.6	203.8	204.5	205.3	203.8	202.3	203.1	203.1	200.8	201.6
65°	179.3	180.7	183.7	183.0	181.5	182.2	180.7	181.5	179.3	180.0	177.8
67.5°	158.4	157.7	158.4	158.4	159.9	159.2	157.7	157.7	156.9	159.2	156.9
70°	136.1	136.1	136.1	136.1	136.9	137.6	136.1	134.6	135.4	133.9	133.1
72.5°	113.1	113.8	113.1	114.5	112.3	113.8	113.8	113.1	112.3	112.3	112.3
75°	91.5	93.0	90.7	91.5	90.7	92.2	91.5	91.5	90.0	89.3	90.0
77.5°	69.9	70.7	69.2	69.9	69.2	69.9	69.9	69.2	69.2	69.2	69.2
80°	49.8	50.6	49.8	49.1	48.3	49.8	48.3	49.1	49.8	49.1	50.6
82.5°	32.0	32.0	31.2	32.0	30.5	30.5	31.2	31.2	30.5	32.0	30.5
85°	15.6	15.6	17.1	15.6	14.9	14.9	14.9	15.6	14.9	16.4	15.6
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°	11.2	11.3	11.4	11.5	11.6	11.7	11.6	11.5	11.4	11.3	11.2
95°	19.0	19.0	18.9	18.8	18.7	18.6	18.7	18.8	18.9	19.0	19.0
97.5°	23.3	23.4	23.5	23.6	23.7	23.8	23.7	23.6	23.5	23.4	23.3
100°	28.1	28.2	28.4	28.6	28.8	29.0	28.8	28.6	28.4	28.2	28.1
102.5°	30.3	30.4	30.7	31.0	31.2	31.5	31.2	31.0	30.7	30.4	30.3
105°	31.1	31.3	31.7	32.0	32.4	32.8	32.4	32.0	31.7	31.3	31.1
107.5°	32.0	32.2	32.6	32.9	33.3	33.7	33.3	32.9	32.6	32.2	32.0
110°	32.4	32.6	33.0	33.3	33.7	34.1	33.7	33.3	33.0	32.6	32.4

TEST NUMBER: P1029514

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	33.3	33.4	33.7	34.0	34.3	34.6	34.3	34.0	33.7	33.4	33.3
115°	66.6	63.1	56.2	49.3	42.3	35.4	42.3	49.3	56.2	63.1	66.6
117.5°	228.2	215.6	190.5	165.3	140.2	115.0	140.2	165.3	190.5	215.6	228.2
120°	322.0	315.5	302.5	289.6	276.6	263.6	276.6	289.6	302.5	315.5	322.0
122.5°	344.9	344.9	345.0	345.1	345.2	345.3	345.2	345.1	345.0	344.9	344.9
125°	368.2	368.3	368.6	368.9	369.2	369.5	369.2	368.9	368.6	368.3	368.2
127.5°	390.7	390.7	390.8	390.9	391.0	391.1	391.0	390.9	390.8	390.7	390.7
130°	411.4	411.4	411.3	411.2	411.1	411.0	411.1	411.2	411.3	411.4	411.4
132.5°	430.9	430.8	430.7	430.6	430.5	430.4	430.5	430.6	430.7	430.8	430.9
135°	449.9	449.8	449.6	449.4	449.2	449.0	449.2	449.4	449.6	449.8	449.9
137.5°	467.6	467.5	467.2	466.9	466.6	466.3	466.6	466.9	467.2	467.5	467.6
140°	484.5	484.3	483.8	483.3	482.8	482.3	482.8	483.3	483.8	484.3	484.5
142.5°	500.0	499.8	499.3	498.8	498.4	497.9	498.4	498.8	499.3	499.8	500.0
145°	514.3	514.1	513.6	513.1	512.6	512.1	512.6	513.1	513.6	514.1	514.3
147.5°	526.8	526.6	526.2	525.9	525.5	525.1	525.5	525.9	526.2	526.6	526.8
150°	538.9	538.7	538.2	537.7	537.3	536.8	537.3	537.7	538.2	538.7	538.9
152.5°	549.7	549.4	548.7	548.0	547.4	546.7	547.4	548.0	548.7	549.4	549.7
155°	559.2	558.8	558.1	557.3	556.6	555.8	556.6	557.3	558.1	558.8	559.2
157.5°	567.9	567.5	566.7	566.0	565.2	564.4	565.2	566.0	566.7	567.5	567.9
160°	574.8	574.5	573.8	573.1	572.5	571.8	572.5	573.1	573.8	574.5	574.8
162.5°	581.7	581.3	580.4	579.5	578.7	577.8	578.7	579.5	580.4	581.3	581.7
165°	586.9	586.6	585.9	585.2	584.6	583.9	584.6	585.2	585.9	586.6	586.9
167.5°	591.6	591.2	590.3	589.4	588.6	587.7	588.6	589.4	590.3	591.2	591.6
170°	595.1	594.7	593.8	592.9	592.1	591.2	592.1	592.9	593.8	594.7	595.1
172.5°	597.7	597.3	596.4	595.5	594.7	593.8	594.7	595.5	596.4	597.3	597.7
175°	599.4	598.9	598.0	597.0	596.1	595.1	596.1	597.0	598.0	598.9	599.4
177.5°	599.9	599.5	598.6	597.7	596.9	596.0	596.9	597.7	598.6	599.5	599.9
180°	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3

TEST NUMBER: P1029514

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CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7
2.5°	918.6	924.5	922.3	914.1	923.8	923.8	930.5	930.5	938.7	941.6	946.1
5°	866.5	871.0	874.7	871.0	877.7	888.1	894.0	899.3	910.4	914.9	921.6
7.5°	810.7	818.9	822.6	822.6	833.8	845.7	857.6	865.0	880.7	886.6	893.3
10°	756.4	766.1	773.6	772.8	791.4	798.8	813.7	830.8	846.4	855.4	865.0
12.5°	699.2	704.4	714.8	729.7	734.1	747.5	764.6	786.2	814.5	822.6	836.8
15°	651.6	665.7	673.9	680.6	691.0	703.6	722.2	743.1	771.3	789.2	804.0
17.5°	611.4	630.0	635.2	633.7	647.1	666.4	688.0	703.6	728.9	750.5	764.6
20°	578.7	586.1	595.0	598.8	609.2	630.0	650.8	668.7	689.5	706.6	723.0
22.5°	545.9	551.9	559.3	566.0	574.2	586.1	606.2	628.5	648.6	665.0	683.6
25°	519.2	522.9	529.6	534.8	543.7	551.9	566.0	590.6	614.4	624.0	640.4
27.5°	493.1	496.1	500.6	506.5	511.0	519.2	531.8	551.9	576.4	586.1	608.4
30°	470.1	472.3	476.8	479.7	482.0	491.7	501.3	516.9	535.5	548.9	565.3
32.5°	448.5	450.7	455.2	455.9	458.9	464.1	473.1	487.2	503.6	514.7	528.8
35°	424.7	426.2	430.7	432.1	434.4	438.8	445.5	455.9	470.8	479.0	491.7
37.5°	406.1	405.4	408.3	410.6	413.6	415.8	418.0	428.4	439.6	447.0	456.7
40°	386.0	384.5	385.3	388.3	389.8	392.7	392.7	403.1	410.6	416.5	424.0
42.5°	365.9	365.2	363.7	365.2	366.7	367.4	368.2	375.6	383.1	388.3	396.4
45°	345.9	345.1	343.6	344.4	344.4	345.9	348.1	351.1	356.3	360.7	365.2
47.5°	327.3	325.8	323.6	322.8	324.3	324.3	324.3	327.3	332.5	334.0	338.4
50°	307.9	305.7	302.7	301.2	301.2	300.5	302.0	302.7	307.2	308.7	312.4
52.5°	287.1	285.6	282.6	279.7	280.4	278.9	279.7	280.4	281.9	284.1	286.4
55°	266.3	263.3	261.1	260.3	258.1	258.1	255.9	258.8	258.1	258.8	261.8
57.5°	246.2	243.2	239.5	238.0	235.8	235.0	233.6	232.8	233.6	235.8	238.0
60°	222.4	220.9	218.7	216.4	215.0	212.7	211.2	211.2	210.5	210.5	211.2
62.5°	199.3	198.6	195.6	194.9	193.4	191.9	189.7	188.2	188.2	189.7	190.4
65°	177.0	176.3	174.0	173.3	169.6	168.1	167.4	166.6	165.1	165.1	165.1
67.5°	156.2	154.0	154.0	150.2	147.3	145.8	144.3	143.6	143.6	143.6	144.3
70°	133.1	133.1	130.9	128.7	125.7	126.4	124.2	122.0	122.0	120.5	121.2
72.5°	110.8	110.1	107.9	107.1	104.9	102.6	101.2	102.6	100.4	99.7	100.4
75°	89.3	88.5	87.0	85.5	86.3	84.0	81.8	81.1	81.1	79.6	79.6
77.5°	68.4	69.9	66.9	66.2	64.7	63.2	62.5	61.7	61.7	61.7	63.2
80°	47.6	48.3	48.3	46.9	47.6	45.4	45.4	45.4	43.1	43.9	44.6
82.5°	30.5	30.5	29.8	30.5	29.8	29.8	29.0	29.0	28.3	28.3	29.0
85°	17.1	16.4	15.6	17.1	16.4	16.4	15.6	15.6	15.6	15.6	15.6
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	9.1	8.6	7.8	7.1	6.3	5.6	5.2	4.7
92.5°	11.1	10.9	10.8	10.6	10.4	10.1	9.8	9.5	9.2	9.1	9.3
95°	18.8	18.3	17.8	17.4	16.9	16.2	15.5	14.8	14.1	13.8	15.4
97.5°	23.2	22.9	22.6	22.3	22.0	20.5	18.9	17.4	15.9	15.1	19.0
100°	27.7	26.9	26.2	25.4	24.6	23.0	21.4	19.7	18.1	17.3	23.9
102.5°	29.8	28.7	27.6	26.6	25.5	43.0	60.5	78.0	95.5	104.2	104.3
105°	30.6	29.5	28.5	27.4	26.4	52.6	78.8	105.0	131.2	144.3	142.9
107.5°	31.5	30.4	29.3	28.3	27.2	59.6	92.0	124.3	156.7	172.9	171.7
110°	37.2	46.8	56.4	66.0	75.6	103.4	131.1	158.9	186.6	200.5	199.5

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CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	54.0	95.4	136.7	178.1	219.5	221.1	222.8	224.4	226.1	226.9	226.0
115°	88.8	133.3	177.7	222.2	266.6	264.2	261.8	259.4	257.0	255.8	255.0
117.5°	235.1	248.8	262.5	276.3	290.0	288.4	286.7	285.1	283.4	282.6	281.6
120°	321.4	320.3	319.1	318.0	316.8	315.1	313.3	311.6	309.9	309.0	308.3
122.5°	344.6	344.0	343.5	342.9	342.3	340.4	338.4	336.5	334.6	333.6	332.8
125°	367.9	367.2	366.5	365.9	365.2	363.4	361.6	359.7	357.9	357.0	356.4
127.5°	390.2	389.3	388.3	387.4	386.4	385.0	383.5	382.1	380.6	379.9	379.2
130°	410.9	409.8	408.8	407.7	406.7	405.6	404.6	403.5	402.4	401.9	401.1
132.5°	430.5	429.6	428.7	427.9	427.0	425.9	424.9	423.8	422.7	422.2	421.6
135°	449.4	448.5	447.5	446.6	445.6	444.7	443.9	443.0	442.1	441.7	440.9
137.5°	467.1	466.2	465.2	464.3	463.3	462.3	461.4	460.4	459.5	459.0	458.4
140°	484.1	483.2	482.3	481.5	480.6	479.5	478.5	477.4	476.3	475.8	475.4
142.5°	499.6	498.9	498.1	497.4	496.6	495.3	494.1	492.8	491.5	490.9	490.6
145°	514.0	513.3	512.6	512.0	511.3	509.7	508.0	506.4	504.7	503.9	503.9
147.5°	526.6	526.1	525.6	525.2	524.7	523.1	521.4	519.8	518.1	517.3	517.4
150°	538.6	538.0	537.5	536.9	536.3	534.8	533.2	531.7	530.2	529.4	529.7
152.5°	549.4	548.8	548.3	547.7	547.1	545.7	544.2	542.8	541.3	540.6	541.0
155°	558.9	558.3	557.8	557.2	556.6	555.4	554.3	553.1	552.0	551.4	551.8
157.5°	567.6	566.9	566.2	565.5	564.8	564.0	563.1	562.3	561.4	561.0	561.4
160°	574.5	573.9	573.4	572.8	572.2	571.6	571.0	570.5	569.9	569.6	569.9
162.5°	581.4	580.7	580.0	579.4	578.7	578.2	577.7	577.2	576.7	576.5	576.8
165°	586.6	585.9	585.2	584.6	583.9	583.6	583.3	583.0	582.7	582.6	582.9
167.5°	591.3	590.6	589.9	589.3	588.6	588.3	588.0	587.7	587.4	587.3	587.6
170°	594.8	594.1	593.4	592.8	592.1	591.9	591.7	591.5	591.3	591.2	591.5
172.5°	597.4	596.7	596.0	595.4	594.7	594.5	594.3	594.1	593.9	593.8	594.1
175°	599.1	598.4	597.7	597.1	596.4	596.2	596.0	595.8	595.6	595.5	595.8
177.5°	599.6	598.9	598.2	597.5	596.8	596.7	596.6	596.5	596.4	596.4	596.7
180°	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3

TEST NUMBER: P1029514

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	967.7	967.7	967.7	967.7
2.5°	949.8	949.8	961.0	972.9
5°	929.0	934.2	952.1	968.4
7.5°	908.9	917.8	940.2	961.0
10°	884.4	896.3	923.8	948.3
12.5°	860.6	871.7	903.7	931.2
15°	827.1	841.2	875.5	909.7
17.5°	793.6	807.8	849.4	889.6
20°	754.2	772.8	819.7	873.2
22.5°	717.8	740.8	792.9	836.0
25°	677.6	713.3	761.6	817.4
27.5°	641.9	677.6	726.7	783.2
30°	601.7	638.2	688.8	740.8
32.5°	563.1	596.5	645.6	709.6
35°	522.9	554.9	602.5	667.2
37.5°	486.4	517.7	569.7	629.3
40°	450.7	483.5	528.1	587.6
42.5°	417.3	446.3	486.4	545.9
45°	386.8	407.6	444.8	500.6
47.5°	354.8	373.4	407.6	463.4
50°	325.0	340.7	370.4	422.5
52.5°	296.0	309.4	336.9	378.6
55°	270.0	282.6	302.7	343.6
57.5°	243.2	252.9	272.2	305.0
60°	217.2	226.1	241.7	268.5
62.5°	191.2	198.6	213.5	235.0
65°	168.1	174.0	185.2	203.8
67.5°	145.8	149.5	158.4	173.3
70°	124.2	127.2	134.6	146.5
72.5°	101.2	104.1	112.3	120.5
75°	81.8	82.6	88.5	95.2
77.5°	64.0	63.2	67.7	72.9
80°	43.9	46.1	49.8	52.1
82.5°	29.8	30.5	32.0	33.5
85°	16.4	17.1	17.1	19.3
87.5°	6.7	7.4	7.4	8.2
90°	3.6	2.5	1.5	0.4
92.5°	9.7	10.0	10.4	10.8
95°	18.6	21.7	24.9	28.1
97.5°	26.9	34.8	42.7	50.6
100°	37.0	50.2	63.3	76.5
102.5°	104.5	104.6	104.8	105.0
105°	140.0	137.1	134.3	131.4
107.5°	169.3	166.9	164.5	162.1
110°	197.5	195.5	193.5	191.5

TEST NUMBER: P1029514

CATALOG NUMBER: S122DIW-B485D435UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	224.3	222.6	220.8	219.1
115°	253.4	251.7	250.1	248.5
117.5°	279.7	277.8	275.9	274.0
120°	306.8	305.4	303.9	302.5
122.5°	331.3	329.8	328.2	326.7
125°	355.1	353.9	352.6	351.4
127.5°	377.9	376.5	375.2	373.8
130°	399.6	398.1	396.5	395.0
132.5°	420.3	419.1	417.8	416.6
135°	439.4	437.9	436.3	434.8
137.5°	457.3	456.1	455.0	453.8
140°	474.7	473.9	473.2	472.4
142.5°	489.9	489.2	488.6	487.9
145°	504.0	504.1	504.2	504.3
147.5°	517.7	518.0	518.3	518.6
150°	530.4	531.1	531.7	532.4
152.5°	541.8	542.5	543.3	544.1
155°	552.7	553.6	554.4	555.3
157.5°	562.1	562.9	563.6	564.4
160°	570.5	571.0	571.6	572.2
162.5°	577.4	577.9	578.5	579.1
165°	583.5	584.0	584.6	585.2
167.5°	588.2	588.7	589.3	589.9
170°	592.1	592.6	593.2	593.8
172.5°	594.7	595.2	595.8	596.4
175°	596.5	597.2	597.9	598.6
177.5°	597.4	598.1	598.7	599.4
180°	597.3	597.3	597.3	597.3

(END OF REPORT)