

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: P1010667

Luminaire Tested: S123DIP-B560D585UB2750-4F0-XX-W2A-A_4000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010667
REPORT IS A COMBINATION OF REPORTS P990111 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B560D585UB2750-4F0-XX-W2A-A_4000K
Description: Define 3 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

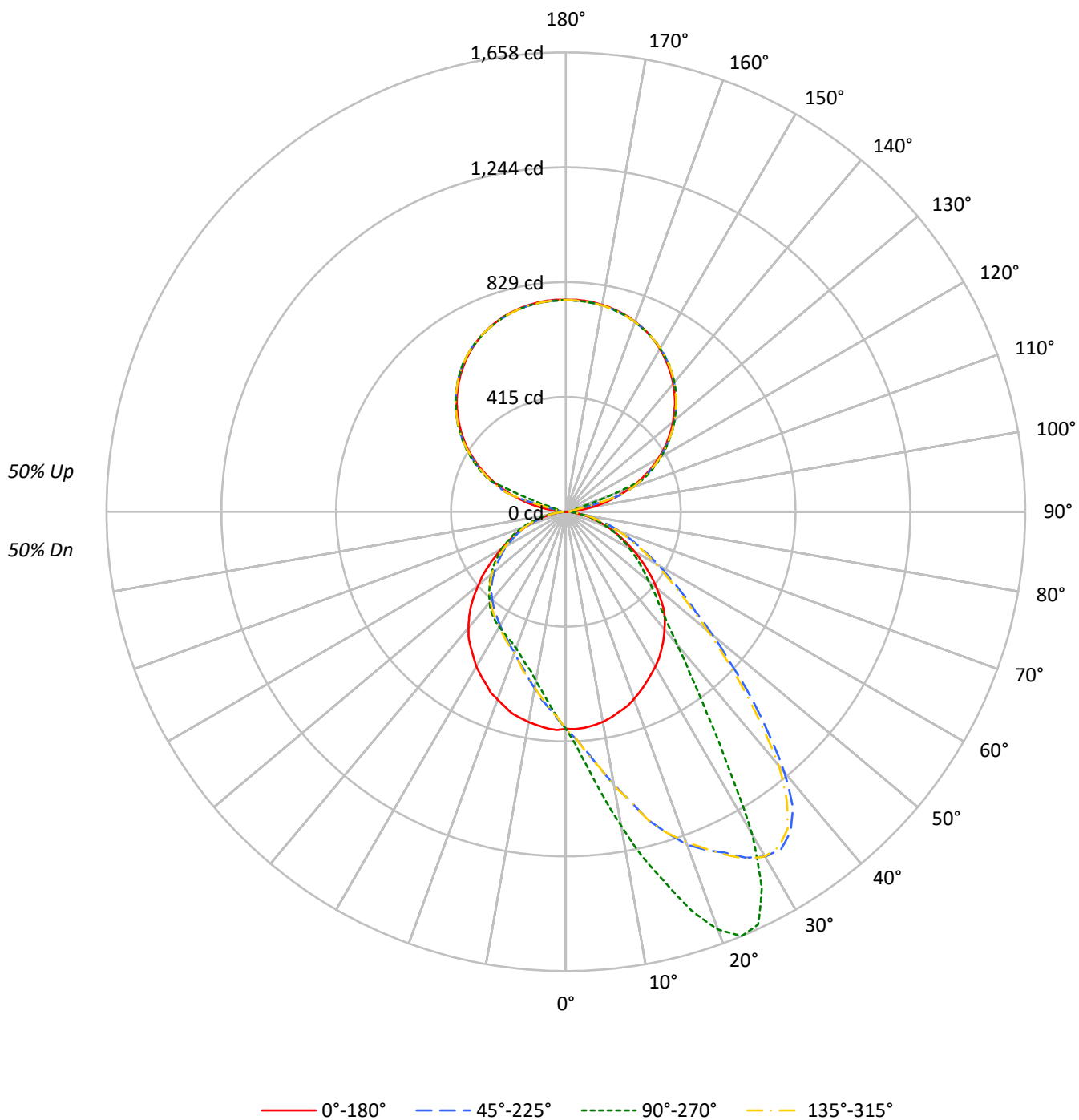
Lumens per Lamp: N/A
Luminaire Lumens: 4696.0 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.37 / 1.5
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

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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	107	107	107	107	99	99	99	99	84	84	84	69	69	69	56	56	56			50
1	98	94	90	87	90	87	84	81	74	71	69	62	60	58	50	49	48			43
2	90	82	76	71	82	76	71	67	65	61	58	54	52	49	45	43	41			36
3	82	73	65	60	75	67	61	56	57	53	49	48	45	42	40	37	35			31
4	75	64	57	51	69	60	53	48	51	46	42	43	39	36	36	33	30			27
5	69	57	49	43	63	53	46	41	46	40	36	39	35	31	32	29	27			23
6	63	52	44	38	58	48	41	36	41	36	32	35	31	28	29	26	24			21
7	59	47	39	33	54	43	36	31	37	32	28	32	28	24	27	23	21			18
8	54	42	35	29	50	40	33	28	34	29	25	29	25	22	25	21	19			16
9	51	39	31	26	47	36	29	25	31	26	22	27	23	20	23	19	17			15
10	47	35	28	23	44	33	27	22	29	24	20	25	21	18	21	18	15			13

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8427	8427	8427	8427
5°	8433	9710	8457	7247
10°	8379	11751	8388	6328
15°	8263	13935	8331	5697
20°	8164	16043	8181	5241
25°	8016	16448	8034	5005
30°	7910	13589	7910	4849
35°	7780	9088	7730	4712
40°	7622	6560	7528	4502
45°	7426	5196	7210	4239
50°	6945	4413	6698	3984
55°	6420	3878	6159	3697
60°	5887	3376	5573	3395
65°	5299	2891	5043	2996
70°	4691	2400	4379	2525
75°	4013	1810	3751	1949
80°	3171	1208	2926	1280
85°	2190	554	1748	505

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 35°

Vertical Angle: 45°

Luminance: 13592 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.0	1.6
10°-20°	247.3	5.3
20°-30°	416.1	8.9
30°-40°	470.3	10.0
40°-50°	421.2	9.0
50°-60°	340.0	7.2
60°-70°	236.9	5.0
70°-80°	124.3	2.6
80°-90°	31.3	0.7
90°-100°	27.0	0.6
100°-110°	130.4	2.8
110°-120°	319.5	6.8
120°-130°	405.6	8.6
130°-140°	433.3	9.2
140°-150°	405.2	8.6
150°-160°	326.8	7.0
160°-170°	210.9	4.5
170°-180°	72.7	1.5
0°-30°	740.4	15.8
0°-40°	1210.7	25.8
0°-60°	1971.9	42.0
0°-90°	2364.5	50.4
90°-120°	476.9	10.2
90°-150°	1721.0	36.6
90°-180°	2331.0	49.6
0°-180°	4696.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	783	783	783	783	783	
5°	782	930	784	694	782	74
15°	746	1384	753	566	746	211
25°	683	1643	684	500	683	315
35°	602	885	599	459	602	377
45°	500	478	486	390	500	382
55°	354	325	340	310	354	317
65°	219	211	209	218	219	218
75°	106	108	99	117	106	113
85°	23	25	18	23	23	26
90°	1	17	1	17	1	4
95°	35	22	35	22	35	41
105°	169	25	169	25	169	180
115°	318	334	318	334	318	314
125°	448	457	448	457	448	400
135°	557	563	557	563	557	429
145°	643	649	643	649	643	403
155°	708	707	708	707	708	326
165°	747	746	747	746	747	211
175°	765	762	765	762	765	73
180°	765	765	765	765	765	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9
2.5°	785.2	791.3	794.3	798.9	803.4	810.2	812.5	816.3	814.8	817.8	819.3
5°	782.2	792.8	801.9	813.3	823.9	831.5	839.1	851.2	860.3	861.8	868.7
7.5°	776.9	792.0	808.0	823.9	844.4	856.5	870.2	886.9	900.5	922.5	930.9
10°	770.0	791.3	814.0	836.0	864.1	883.1	899.8	927.8	955.9	978.7	999.9
12.5°	759.4	786.0	815.5	848.2	884.6	906.6	929.3	966.5	1009.0	1043.9	1066.7
15°	746.5	779.9	817.8	852.7	892.9	933.9	958.2	999.9	1060.6	1093.2	1151.6
17.5°	735.9	770.0	808.0	862.6	917.2	958.2	975.6	1052.2	1094.0	1148.6	1214.6
20°	719.2	762.4	811.0	865.6	936.2	961.2	996.9	1074.2	1125.8	1197.2	1278.3
22.5°	701.8	748.0	806.4	863.3	942.2	968.8	1017.4	1078.8	1160.7	1231.3	1320.8
25°	682.8	732.9	792.0	859.6	936.9	975.6	1021.1	1097.0	1185.8	1274.5	1357.2
27.5°	663.8	718.4	779.9	847.4	922.5	968.0	1013.6	1092.5	1206.3	1302.6	1408.1
30°	645.6	700.2	761.7	830.7	909.6	953.6	996.9	1095.5	1222.2	1330.7	1436.9
32.5°	625.9	682.0	746.5	804.2	883.8	930.9	979.4	1095.5	1232.0	1347.4	1444.5
35°	602.4	660.0	715.4	773.1	852.0	904.3	958.9	1087.9	1241.2	1352.7	1412.6
37.5°	579.6	630.4	678.2	734.4	817.1	873.2	936.2	1078.8	1236.6	1329.9	1346.6
40°	553.8	604.6	643.3	695.7	782.9	848.2	911.9	1066.7	1216.9	1276.0	1227.5
42.5°	528.8	569.0	602.4	653.2	748.0	811.8	880.8	1044.7	1178.2	1190.3	1081.1
45°	500.0	528.8	558.4	616.0	710.1	775.3	852.0	1012.8	1116.0	1081.1	943.0
47.5°	462.8	488.6	521.2	574.3	669.9	737.4	810.2	971.8	1025.7	952.9	801.9
50°	427.1	449.1	479.5	531.1	627.4	693.4	770.8	907.3	933.9	819.3	691.1
52.5°	391.5	408.2	437.7	489.3	585.7	649.4	720.0	841.3	826.2	703.3	589.5
55°	354.3	368.7	396.8	447.6	537.1	597.8	665.3	760.2	720.7	603.9	512.8
57.5°	317.9	333.0	361.9	404.4	488.6	547.7	601.6	676.0	616.8	523.5	443.1
60°	285.3	298.1	320.2	361.9	438.5	486.3	535.6	586.4	537.1	446.8	385.4
62.5°	251.1	263.3	283.7	321.7	387.7	430.2	469.6	511.3	456.7	390.7	336.1
65°	219.2	229.1	248.1	283.0	336.8	371.7	403.6	432.4	388.4	327.7	286.8
67.5°	190.4	198.8	214.7	245.8	291.3	316.4	342.2	366.4	329.3	280.7	245.8
70°	159.3	166.1	180.6	203.3	239.7	265.5	284.5	302.7	269.3	230.6	207.1
72.5°	132.0	138.8	147.9	171.5	196.5	212.4	232.9	242.8	223.8	191.9	168.4
75°	105.5	110.8	119.1	134.3	157.8	168.4	181.3	188.9	171.5	150.2	135.8
77.5°	82.7	85.0	91.0	101.7	117.6	129.7	139.6	144.1	132.0	118.3	106.2
80°	58.4	61.5	66.0	75.1	87.2	91.0	97.1	102.4	94.8	82.7	75.1
82.5°	38.7	42.5	44.8	48.6	56.1	60.7	62.2	66.8	59.9	55.4	52.3
85°	22.8	24.3	25.0	27.3	31.1	33.4	35.7	36.4	34.9	34.1	31.1
87.5°	11.4	11.4	11.4	12.9	13.7	15.2	15.9	15.9	15.9	15.2	14.4
90°	0.6	1.8	3.1	4.3	5.6	6.2	7.0	8.7	10.3	12.0	13.6
92.5°	13.1	12.3	11.6	10.8	10.1	9.7	10.3	11.4	12.5	13.7	14.8
95°	34.7	29.5	24.3	19.2	14.0	11.4	12.1	13.5	14.8	16.2	17.6
97.5°	63.1	59.6	56.0	52.5	49.0	47.2	44.0	37.5	31.1	24.6	18.2
100°	96.0	98.5	101.1	103.6	106.1	107.4	97.5	77.8	58.1	38.4	18.7
102.5°	133.5	135.1	136.8	138.4	140.1	140.9	129.9	107.9	86.0	64.0	42.0
105°	169.3	170.7	172.1	173.5	174.9	175.6	169.9	158.5	147.2	135.8	124.4
107.5°	207.4	208.5	209.7	210.8	211.9	212.5	213.4	215.3	217.2	219.1	221.0
110°	245.5	246.5	247.5	248.5	249.5	250.0	250.7	252.1	253.4	254.8	256.2

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	281.8	282.7	283.6	284.5	285.4	285.8	286.5	287.9	289.2	290.6	292.0
115°	317.6	318.4	319.1	319.9	320.6	321.0	321.6	322.7	323.8	325.0	326.1
117.5°	352.8	353.7	354.6	355.5	356.4	356.8	357.1	357.8	358.4	359.1	359.7
120°	385.2	386.3	387.5	388.6	389.7	390.3	390.5	390.9	391.2	391.6	392.0
122.5°	418.2	419.1	420.0	420.9	421.8	422.2	422.4	422.9	423.4	423.9	424.4
125°	447.7	448.7	449.7	450.8	451.8	452.3	452.5	453.0	453.5	454.0	454.5
127.5°	477.3	478.3	479.3	480.3	481.3	481.8	482.1	482.8	483.4	484.1	484.7
130°	504.5	505.5	506.5	507.6	508.6	509.1	509.4	509.9	510.4	510.9	511.4
132.5°	530.7	531.7	532.7	533.7	534.7	535.2	535.4	535.8	536.1	536.5	536.9
135°	557.4	558.2	558.9	559.7	560.4	560.8	561.1	561.6	562.1	562.6	563.1
137.5°	580.1	581.1	582.1	583.2	584.2	584.7	584.8	585.1	585.3	585.6	585.8
140°	602.8	603.6	604.3	605.1	605.8	606.2	606.4	606.8	607.2	607.6	608.0
142.5°	623.9	624.7	625.4	626.2	626.9	627.3	627.5	627.9	628.2	628.6	629.0
145°	643.2	644.1	645.0	645.9	646.8	647.2	647.3	647.6	647.8	648.1	648.3
147.5°	661.9	662.5	663.2	663.8	664.5	664.8	664.9	665.2	665.4	665.7	665.9
150°	679.0	679.4	679.8	680.1	680.5	680.7	680.8	681.1	681.3	681.6	681.8
152.5°	694.3	694.4	694.6	694.7	694.8	694.9	695.0	695.1	695.2	695.4	695.5
155°	708.5	708.3	708.0	707.8	707.5	707.4	707.5	707.6	707.7	707.9	708.0
157.5°	719.9	719.9	719.9	719.9	719.9	719.9	719.8	719.7	719.6	719.4	719.3
160°	730.1	730.0	729.8	729.7	729.6	729.5	729.4	729.3	729.2	729.1	729.0
162.5°	739.8	739.4	739.0	738.7	738.3	738.1	738.0	737.9	737.8	737.6	737.5
165°	747.2	746.8	746.4	746.1	745.7	745.5	745.4	745.3	745.2	745.0	744.9
167.5°	753.4	752.9	752.4	751.9	751.4	751.1	751.1	751.1	751.1	751.1	751.1
170°	758.5	758.0	757.5	757.0	756.5	756.2	756.2	756.2	756.2	756.2	756.2
172.5°	761.9	761.3	760.7	760.0	759.4	759.1	759.2	759.3	759.4	759.6	759.7
175°	764.8	764.2	763.5	762.9	762.2	761.9	762.0	762.1	762.2	762.4	762.5
177.5°	765.9	765.3	764.7	764.0	763.4	763.1	763.2	763.3	763.4	763.5	763.6
180°	764.8	764.8	764.8	764.8	764.8	764.8	764.8	764.8	764.8	764.8	764.8

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9
2.5°	824.7	826.2	831.5	835.3	842.9	842.1	842.1	841.3	839.1	842.9	845.1
5°	882.3	895.2	896.7	913.4	914.2	921.0	925.6	921.8	930.9	930.1	923.3
7.5°	953.6	971.1	979.4	995.3	1013.6	1009.0	1026.5	1029.5	1028.0	1035.6	1040.9
10°	1031.8	1062.1	1083.4	1112.9	1120.5	1125.1	1136.5	1146.3	1166.0	1150.9	1160.7
12.5°	1121.3	1143.3	1171.4	1218.4	1241.9	1257.1	1262.4	1269.2	1282.9	1274.5	1275.3
15°	1196.4	1226.0	1273.8	1332.2	1339.0	1358.0	1353.4	1394.4	1414.1	1384.5	1401.2
17.5°	1274.5	1314.0	1370.9	1421.7	1450.5	1463.4	1475.6	1515.0	1513.5	1509.0	1512.7
20°	1324.6	1389.1	1459.6	1527.2	1535.5	1545.4	1578.0	1594.7	1591.6	1604.5	1612.9
22.5°	1395.2	1463.4	1538.5	1583.3	1602.3	1613.6	1639.4	1650.1	1654.6	1657.7	1652.3
25°	1454.3	1527.2	1582.5	1622.0	1633.4	1639.4	1647.8	1650.8	1648.5	1643.2	1647.8
27.5°	1494.5	1553.0	1590.9	1609.1	1603.0	1593.2	1577.2	1566.6	1543.1	1531.7	1545.4
30°	1511.2	1537.0	1548.4	1518.1	1487.7	1463.4	1433.1	1377.0	1332.9	1345.8	1328.4
32.5°	1484.7	1468.0	1413.4	1335.2	1311.7	1272.3	1186.5	1120.5	1122.8	1087.9	1102.3
35°	1406.5	1330.7	1227.5	1109.1	1078.0	1056.8	962.7	948.3	918.0	885.3	894.4
37.5°	1268.5	1157.7	1032.5	945.3	899.0	852.7	799.6	767.8	749.5	735.9	746.5
40°	1100.0	965.0	861.8	783.7	744.2	714.6	678.2	646.4	625.9	623.6	627.4
42.5°	934.7	820.9	726.0	651.7	638.8	603.9	580.4	555.3	549.3	539.4	544.7
45°	791.3	698.7	620.6	559.9	544.7	535.6	506.8	490.8	484.0	477.9	487.1
47.5°	687.3	590.2	533.3	496.9	481.7	466.6	450.6	440.0	434.7	435.5	434.7
50°	587.2	515.9	465.8	437.7	428.6	418.0	405.1	398.3	396.0	389.2	394.5
52.5°	505.3	453.7	418.8	392.2	385.4	377.8	367.2	363.4	358.1	356.6	356.6
55°	439.3	399.1	371.0	353.5	345.2	339.1	333.0	328.5	324.7	324.7	324.7
57.5°	387.7	352.8	332.3	317.1	314.1	308.0	301.2	301.2	295.9	295.1	297.4
60°	343.7	312.6	296.6	283.7	279.2	277.7	270.8	270.8	269.3	265.5	268.6
62.5°	298.9	276.1	262.5	252.6	248.1	248.1	242.8	239.0	239.0	239.7	238.2
65°	257.9	241.3	229.1	221.5	219.2	216.2	215.5	212.4	210.1	210.9	210.1
67.5°	221.5	208.6	200.3	194.2	190.4	188.9	186.6	186.6	185.1	185.9	182.1
70°	188.9	176.0	169.2	163.1	161.6	161.6	158.6	159.3	157.8	160.1	158.6
72.5°	155.5	145.7	140.4	138.1	136.6	135.8	134.3	132.8	132.0	133.5	132.8
75°	125.9	117.6	113.8	112.3	110.8	110.8	110.0	109.2	108.5	108.5	108.5
77.5°	97.9	92.6	88.0	89.5	87.2	88.0	85.7	85.7	86.5	85.7	85.7
80°	72.1	68.3	68.3	66.8	63.7	65.2	65.2	63.0	62.2	63.7	61.5
82.5°	47.8	47.0	45.5	44.8	43.2	44.0	43.2	42.5	41.7	43.2	41.7
85°	28.1	28.1	27.3	25.8	27.3	26.6	25.8	25.8	25.0	25.0	25.0
87.5°	14.4	12.9	12.9	12.1	12.9	11.4	12.1	11.4	10.6	11.4	10.6
90°	14.1	14.6	15.1	15.6	15.9	16.0	16.3	16.5	16.8	17.0	16.8
92.5°	15.7	16.5	17.4	18.3	18.7	18.8	18.9	19.0	19.2	19.3	19.2
95°	18.5	19.4	20.3	21.2	21.6	21.6	21.6	21.6	21.6	21.6	21.6
97.5°	19.2	20.2	21.2	22.2	22.7	22.8	22.9	23.0	23.2	23.3	23.2
100°	19.7	20.7	21.8	22.8	23.3	23.4	23.5	23.6	23.8	23.9	23.8
102.5°	37.8	33.7	29.5	25.4	23.3	23.4	23.7	23.9	24.2	24.4	24.2
105°	102.1	79.7	57.4	35.1	23.9	24.0	24.3	24.5	24.8	25.0	24.8
107.5°	201.6	182.1	162.7	143.2	133.5	125.2	108.7	92.2	75.6	59.1	75.6
110°	252.0	247.9	243.7	239.6	237.5	228.5	210.4	192.3	174.3	156.2	174.3

TEST NUMBER: P1010667

CATALOG NUMBER: S123DIP-B560D585UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	293.2	294.3	295.5	296.6	297.2	297.1	296.8	296.5	296.3	296.0	296.3
115°	327.4	328.6	329.9	331.2	331.8	332.1	332.6	333.1	333.6	334.1	333.6
117.5°	360.7	361.7	362.7	363.7	364.2	364.3	364.4	364.5	364.7	364.8	364.7
120°	393.0	394.0	395.1	396.1	396.6	396.6	396.6	396.6	396.6	396.6	396.6
122.5°	425.0	425.7	426.3	427.0	427.3	427.4	427.5	427.6	427.7	427.8	427.7
125°	454.8	455.0	455.3	455.6	455.7	455.8	456.1	456.3	456.6	456.8	456.6
127.5°	485.1	485.5	485.8	486.2	486.4	486.3	486.0	485.7	485.5	485.2	485.5
130°	511.9	512.4	512.9	513.4	513.6	513.5	513.2	513.0	512.7	512.5	512.7
132.5°	537.4	537.9	538.4	538.9	539.2	539.0	538.6	538.3	537.9	537.5	537.9
135°	563.5	563.9	564.2	564.6	564.8	564.6	564.2	563.9	563.5	563.1	563.5
137.5°	586.4	587.0	587.7	588.3	588.6	588.5	588.2	588.0	587.7	587.5	587.7
140°	608.5	609.0	609.5	610.0	610.2	610.1	609.8	609.6	609.3	609.1	609.3
142.5°	629.4	629.8	630.1	630.5	630.7	630.5	630.1	629.8	629.4	629.0	629.4
145°	648.5	648.8	649.0	649.3	649.4	649.4	649.4	649.4	649.4	649.4	649.4
147.5°	666.1	666.4	666.6	666.9	667.0	666.7	666.1	665.4	664.8	664.2	664.8
150°	682.1	682.3	682.6	682.9	683.0	682.8	682.4	682.0	681.6	681.2	681.6
152.5°	696.0	696.5	697.0	697.5	697.7	697.4	696.8	696.1	695.5	694.9	695.5
155°	708.6	709.2	709.9	710.5	710.8	710.4	709.7	708.9	708.2	707.4	708.2
157.5°	720.1	720.8	721.6	722.3	722.7	722.2	721.2	720.2	719.2	718.2	719.2
160°	729.8	730.5	731.3	732.0	732.4	732.0	731.1	730.2	729.3	728.4	729.3
162.5°	738.4	739.3	740.2	741.1	741.5	741.1	740.4	739.6	738.9	738.1	738.9
165°	745.9	746.9	747.9	748.9	749.4	749.0	748.1	747.2	746.4	745.5	746.4
167.5°	752.1	753.1	754.2	755.2	755.7	755.2	754.2	753.1	752.1	751.1	752.1
170°	757.2	758.2	759.3	760.3	760.8	760.3	759.3	758.2	757.2	756.2	757.2
172.5°	760.7	761.7	762.7	763.7	764.2	763.6	762.5	761.4	760.2	759.1	760.2
175°	763.4	764.3	765.2	766.1	766.5	766.0	765.0	763.9	762.9	761.9	762.9
177.5°	764.6	765.6	766.7	767.7	768.2	767.6	766.3	765.0	763.8	762.5	763.8
180°	764.8	764.8	764.8	764.8	764.8	764.8	764.8	764.8	764.8	764.8	764.8

TEST NUMBER: P1010667

CATALOG NUMBER: S123DIP-B560D585UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9
2.5°	839.1	841.3	835.3	833.8	833.8	836.8	834.5	814.0	817.8	813.3	811.8
5°	931.6	927.1	921.0	918.0	914.2	903.6	902.8	879.3	874.7	859.6	852.7
7.5°	1033.3	1029.5	1011.3	1009.0	1007.5	997.6	972.6	947.6	929.3	911.9	895.2
10°	1149.4	1138.0	1129.6	1112.9	1104.6	1090.9	1058.3	1034.8	1003.7	977.1	942.2
12.5°	1288.9	1276.0	1248.0	1235.8	1225.2	1187.3	1154.7	1128.1	1067.4	1049.2	1006.0
15°	1391.4	1364.1	1361.0	1334.5	1332.9	1291.2	1229.0	1200.2	1153.1	1086.4	1041.6
17.5°	1502.1	1477.9	1458.9	1427.0	1422.5	1383.0	1337.5	1266.9	1215.4	1151.6	1094.7
20°	1583.3	1570.4	1537.8	1524.9	1498.3	1465.0	1417.9	1330.7	1267.7	1204.0	1134.2
22.5°	1647.8	1634.9	1609.1	1591.6	1576.5	1533.2	1477.1	1402.7	1316.3	1232.8	1160.7
25°	1647.0	1643.2	1632.6	1624.3	1612.9	1581.0	1534.0	1462.7	1366.3	1274.5	1174.4
27.5°	1553.7	1564.3	1582.5	1591.6	1589.4	1584.8	1558.3	1498.3	1411.8	1302.6	1190.3
30°	1359.5	1398.2	1432.3	1477.9	1491.5	1524.9	1540.1	1505.9	1436.9	1335.2	1210.8
32.5°	1127.4	1183.5	1257.8	1282.9	1326.1	1390.6	1462.7	1475.6	1432.3	1354.2	1223.7
35°	924.8	971.1	1028.7	1068.2	1106.9	1211.6	1302.6	1381.5	1395.9	1344.3	1220.7
37.5°	765.5	798.1	848.9	882.3	918.0	1007.5	1134.9	1237.4	1309.4	1310.9	1212.3
40°	650.2	664.6	708.6	732.9	767.0	844.4	958.2	1091.7	1197.2	1245.7	1190.3
42.5°	550.8	569.7	606.2	624.4	646.4	713.9	789.0	915.7	1046.2	1150.1	1149.4
45°	491.6	505.3	522.0	537.1	562.2	602.4	688.1	782.9	908.1	1025.7	1072.0
47.5°	439.3	452.2	468.8	473.4	490.1	528.0	580.4	663.1	779.9	896.7	984.0
50°	395.3	405.9	417.3	425.6	433.2	464.3	503.7	573.5	666.9	779.9	888.4
52.5°	361.1	368.7	378.6	383.1	389.9	412.7	443.1	494.6	571.3	674.4	779.9
55°	329.3	334.6	340.6	348.2	351.3	367.9	391.5	435.5	492.4	584.9	685.1
57.5°	299.7	301.9	305.7	310.3	314.1	328.5	349.0	378.6	428.6	500.0	594.8
60°	266.3	272.4	274.6	279.2	281.5	292.8	308.8	333.8	372.5	433.9	505.3
62.5°	238.2	242.0	245.8	248.1	253.4	257.2	270.1	292.8	324.7	370.2	434.7
65°	213.2	214.7	217.0	219.2	220.8	225.3	237.5	252.6	276.9	317.1	367.2
67.5°	184.4	185.9	188.9	189.7	191.2	197.2	204.1	217.0	237.5	267.8	308.8
70°	156.3	158.6	160.1	161.6	163.9	166.1	173.7	184.4	200.3	221.5	253.4
72.5°	132.0	134.3	134.3	135.8	135.0	138.1	145.7	153.2	163.9	181.3	209.4
75°	107.7	107.7	109.2	110.0	110.8	113.8	116.8	122.9	131.2	144.9	162.4
77.5°	85.0	84.2	85.7	85.7	85.7	88.0	91.0	94.1	99.4	109.2	122.9
80°	62.2	62.2	63.7	64.5	63.0	63.7	65.2	68.3	72.1	78.9	86.5
82.5°	41.0	44.0	43.2	44.0	43.2	44.8	45.5	46.3	47.8	50.8	56.1
85°	25.0	25.0	25.0	25.8	25.0	25.8	25.8	25.8	26.6	28.1	30.3
87.5°	10.6	10.6	10.6	11.4	10.6	10.6	11.4	10.6	11.4	11.4	12.1
90°	16.5	16.3	16.0	15.9	15.6	15.1	14.6	14.1	13.6	12.0	10.3
92.5°	19.0	18.9	18.8	18.7	18.3	17.4	16.5	15.7	14.8	13.7	12.5
95°	21.6	21.6	21.6	21.6	21.2	20.3	19.4	18.5	17.6	16.2	14.8
97.5°	23.0	22.9	22.8	22.7	22.2	21.2	20.2	19.2	18.2	24.6	31.1
100°	23.6	23.5	23.4	23.3	22.8	21.8	20.7	19.7	18.7	38.4	58.1
102.5°	23.9	23.7	23.4	23.3	25.4	29.5	33.7	37.8	42.0	64.0	86.0
105°	24.5	24.3	24.0	23.9	35.1	57.4	79.7	102.1	124.4	135.8	147.2
107.5°	92.2	108.7	125.2	133.5	143.2	162.7	182.1	201.6	221.0	219.1	217.2
110°	192.3	210.4	228.5	237.5	239.6	243.7	247.9	252.0	256.2	254.8	253.4



TEST NUMBER: P1010667

CATALOG NUMBER: S123DIP-B560D585UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	296.5	296.8	297.1	297.2	296.6	295.5	294.3	293.2	292.0	290.6	289.2
115°	333.1	332.6	332.1	331.8	331.2	329.9	328.6	327.4	326.1	325.0	323.8
117.5°	364.5	364.4	364.3	364.2	363.7	362.7	361.7	360.7	359.7	359.1	358.4
120°	396.6	396.6	396.6	396.6	396.1	395.1	394.0	393.0	392.0	391.6	391.2
122.5°	427.6	427.5	427.4	427.3	427.0	426.3	425.7	425.0	424.4	423.9	423.4
125°	456.3	456.1	455.8	455.7	455.6	455.3	455.0	454.8	454.5	454.0	453.5
127.5°	485.7	486.0	486.3	486.4	486.2	485.8	485.5	485.1	484.7	484.1	483.4
130°	513.0	513.2	513.5	513.6	513.4	512.9	512.4	511.9	511.4	510.9	510.4
132.5°	538.3	538.6	539.0	539.2	538.9	538.4	537.9	537.4	536.9	536.5	536.1
135°	563.9	564.2	564.6	564.8	564.6	564.2	563.9	563.5	563.1	562.6	562.1
137.5°	588.0	588.2	588.5	588.6	588.3	587.7	587.0	586.4	585.8	585.6	585.3
140°	609.6	609.8	610.1	610.2	610.0	609.5	609.0	608.5	608.0	607.6	607.2
142.5°	629.8	630.1	630.5	630.7	630.5	630.1	629.8	629.4	629.0	628.6	628.2
145°	649.4	649.4	649.4	649.4	649.3	649.0	648.8	648.5	648.3	648.1	647.8
147.5°	665.4	666.1	666.7	667.0	666.9	666.6	666.4	666.1	665.9	665.7	665.4
150°	682.0	682.4	682.8	683.0	682.9	682.6	682.3	682.1	681.8	681.6	681.3
152.5°	696.1	696.8	697.4	697.7	697.5	697.0	696.5	696.0	695.5	695.4	695.2
155°	708.9	709.7	710.4	710.8	710.5	709.9	709.2	708.6	708.0	707.9	707.7
157.5°	720.2	721.2	722.2	722.7	722.3	721.6	720.8	720.1	719.3	719.4	719.6
160°	730.2	731.1	732.0	732.4	732.0	731.3	730.5	729.8	729.0	729.1	729.2
162.5°	739.6	740.4	741.1	741.5	741.1	740.2	739.3	738.4	737.5	737.6	737.8
165°	747.2	748.1	749.0	749.4	748.9	747.9	746.9	745.9	744.9	745.0	745.2
167.5°	753.1	754.2	755.2	755.7	755.2	754.2	753.1	752.1	751.1	751.1	751.1
170°	758.2	759.3	760.3	760.8	760.3	759.3	758.2	757.2	756.2	756.2	756.2
172.5°	761.4	762.5	763.6	764.2	763.7	762.7	761.7	760.7	759.7	759.6	759.4
175°	763.9	765.0	766.0	766.5	766.1	765.2	764.3	763.4	762.5	762.4	762.2
177.5°	765.0	766.3	767.6	768.2	767.7	766.7	765.6	764.6	763.6	763.5	763.4
180°	764.8	764.8	764.8	764.8	764.8	764.8	764.8	764.8	764.8	764.8	764.8

TEST NUMBER: P1010667

CATALOG NUMBER: S123DIP-B560D585UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9
2.5°	804.2	801.9	801.9	800.4	795.8	787.5	786.7	788.2	783.7	779.1	772.3
5°	843.6	829.2	824.7	820.1	811.0	795.8	789.8	784.4	776.1	766.2	755.6
7.5°	877.0	856.5	850.4	842.1	823.9	802.7	789.0	777.6	766.2	752.6	739.7
10°	918.7	889.1	874.7	862.6	837.6	808.0	787.5	770.8	752.6	735.9	719.2
12.5°	965.8	918.0	913.4	883.8	855.0	811.0	786.0	761.7	737.4	716.9	699.5
15°	1005.2	952.9	933.9	914.2	858.8	804.2	779.9	752.6	724.5	702.5	676.7
17.5°	1030.2	987.0	946.8	920.2	862.6	814.0	767.0	735.9	706.3	676.0	654.7
20°	1060.6	997.6	962.7	927.1	870.2	806.4	759.4	720.7	684.3	657.0	631.2
22.5°	1090.9	1006.0	977.1	938.5	871.7	798.9	745.8	707.1	665.3	638.0	610.0
25°	1087.9	1018.1	970.3	937.7	856.5	792.0	729.8	684.3	645.6	610.7	582.6
27.5°	1090.2	1004.5	955.9	918.0	845.9	782.2	713.1	665.3	625.1	588.7	559.1
30°	1090.9	984.0	941.5	896.0	826.2	758.7	694.2	645.6	603.1	563.7	537.1
32.5°	1088.7	967.3	914.2	873.2	795.1	735.9	672.2	620.6	577.3	540.9	515.9
35°	1083.4	947.6	886.1	834.5	763.2	703.3	651.7	598.6	552.3	518.9	490.1
37.5°	1068.9	926.3	856.5	805.7	726.0	665.3	619.8	575.8	531.1	491.6	467.3
40°	1058.3	897.5	826.9	771.5	685.8	626.6	588.7	547.0	503.0	467.3	443.8
42.5°	1034.0	870.2	796.6	730.6	646.4	585.7	550.0	516.6	478.7	443.8	422.6
45°	994.6	840.6	759.4	692.6	603.1	545.5	512.8	485.5	452.2	418.8	397.5
47.5°	939.2	798.1	720.0	653.2	560.6	502.2	469.6	449.1	422.6	394.5	376.3
50°	879.3	751.8	679.8	613.7	519.7	462.8	430.9	411.9	394.5	368.7	351.3
52.5°	801.1	702.5	633.5	570.5	475.7	421.1	393.0	379.3	361.1	342.9	327.7
55°	725.3	638.8	581.9	522.0	432.4	381.6	354.3	339.9	329.3	314.1	301.9
57.5°	637.3	579.6	527.3	472.6	392.2	345.9	320.2	302.7	295.9	289.0	277.7
60°	556.1	512.1	469.6	424.1	350.5	308.8	283.7	270.1	263.3	258.7	251.1
62.5°	481.7	447.6	411.2	374.8	308.0	270.1	251.1	237.5	231.4	230.6	223.8
65°	410.4	386.2	356.6	320.9	268.6	235.2	217.0	208.6	201.8	201.8	196.5
67.5°	339.1	322.4	298.9	273.9	232.9	201.8	185.1	177.5	173.7	173.7	169.9
70°	282.2	270.8	249.6	227.6	191.9	168.4	155.5	148.7	146.4	147.2	144.1
72.5°	229.1	217.0	199.5	183.6	157.0	139.6	130.5	122.9	119.1	119.9	119.1
75°	177.5	171.5	156.3	144.1	122.9	110.8	102.4	98.6	95.6	96.3	94.8
77.5°	133.5	124.4	116.1	107.7	94.8	85.0	78.1	74.3	72.1	72.1	72.1
80°	91.0	89.5	82.7	78.1	67.5	59.9	54.6	53.9	51.6	51.6	51.6
82.5°	59.2	55.4	51.6	48.6	42.5	37.9	35.7	34.1	33.4	32.6	34.1
85°	32.6	30.3	28.8	25.8	23.5	21.2	19.0	18.2	17.4	18.2	17.4
87.5°	12.9	10.6	10.6	9.9	9.1	8.3	8.3	6.8	6.8	6.1	6.1
90°	8.7	7.0	6.2	5.6	4.3	3.1	1.8	0.6	1.8	3.1	4.3
92.5°	11.4	10.3	9.7	10.1	10.8	11.6	12.3	13.1	12.3	11.6	10.8
95°	13.5	12.1	11.4	14.0	19.2	24.3	29.5	34.7	29.5	24.3	19.2
97.5°	37.5	44.0	47.2	49.0	52.5	56.0	59.6	63.1	59.6	56.0	52.5
100°	77.8	97.5	107.4	106.1	103.6	101.1	98.5	96.0	98.5	101.1	103.6
102.5°	107.9	129.9	140.9	140.1	138.4	136.8	135.1	133.5	135.1	136.8	138.4
105°	158.5	169.9	175.6	174.9	173.5	172.1	170.7	169.3	170.7	172.1	173.5
107.5°	215.3	213.4	212.5	211.9	210.8	209.7	208.5	207.4	208.5	209.7	210.8
110°	252.1	250.7	250.0	249.5	248.5	247.5	246.5	245.5	246.5	247.5	248.5

TEST NUMBER: P1010667

CATALOG NUMBER: S123DIP-B560D585UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	287.9	286.5	285.8	285.4	284.5	283.6	282.7	281.8	282.7	283.6	284.5
115°	322.7	321.6	321.0	320.6	319.9	319.1	318.4	317.6	318.4	319.1	319.9
117.5°	357.8	357.1	356.8	356.4	355.5	354.6	353.7	352.8	353.7	354.6	355.5
120°	390.9	390.5	390.3	389.7	388.6	387.5	386.3	385.2	386.3	387.5	388.6
122.5°	422.9	422.4	422.2	421.8	420.9	420.0	419.1	418.2	419.1	420.0	420.9
125°	453.0	452.5	452.3	451.8	450.8	449.7	448.7	447.7	448.7	449.7	450.8
127.5°	482.8	482.1	481.8	481.3	480.3	479.3	478.3	477.3	478.3	479.3	480.3
130°	509.9	509.4	509.1	508.6	507.6	506.5	505.5	504.5	505.5	506.5	507.6
132.5°	535.8	535.4	535.2	534.7	533.7	532.7	531.7	530.7	531.7	532.7	533.7
135°	561.6	561.1	560.8	560.4	559.7	558.9	558.2	557.4	558.2	558.9	559.7
137.5°	585.1	584.8	584.7	584.2	583.2	582.1	581.1	580.1	581.1	582.1	583.2
140°	606.8	606.4	606.2	605.8	605.1	604.3	603.6	602.8	603.6	604.3	605.1
142.5°	627.9	627.5	627.3	626.9	626.2	625.4	624.7	623.9	624.7	625.4	626.2
145°	647.6	647.3	647.2	646.8	645.9	645.0	644.1	643.2	644.1	645.0	645.9
147.5°	665.2	664.9	664.8	664.5	663.8	663.2	662.5	661.9	662.5	663.2	663.8
150°	681.1	680.8	680.7	680.5	680.1	679.8	679.4	679.0	679.4	679.8	680.1
152.5°	695.1	695.0	694.9	694.8	694.7	694.6	694.4	694.3	694.4	694.6	694.7
155°	707.6	707.5	707.4	707.5	707.8	708.0	708.3	708.5	708.3	708.0	707.8
157.5°	719.7	719.8	719.9	719.9	719.9	719.9	719.9	719.9	719.9	719.9	719.9
160°	729.3	729.4	729.5	729.6	729.7	729.8	730.0	730.1	730.0	729.8	729.7
162.5°	737.9	738.0	738.1	738.3	738.7	739.0	739.4	739.8	739.4	739.0	738.7
165°	745.3	745.4	745.5	745.7	746.1	746.4	746.8	747.2	746.8	746.4	746.1
167.5°	751.1	751.1	751.1	751.4	751.9	752.4	752.9	753.4	752.9	752.4	751.9
170°	756.2	756.2	756.2	756.5	757.0	757.5	758.0	758.5	758.0	757.5	757.0
172.5°	759.3	759.2	759.1	759.4	760.0	760.7	761.3	761.9	761.3	760.7	760.0
175°	762.1	762.0	761.9	762.2	762.9	763.5	764.2	764.8	764.2	763.5	762.9
177.5°	763.3	763.2	763.1	763.4	764.0	764.7	765.3	765.9	765.3	764.7	764.0
180°	764.8	764.8	764.8	764.8	764.8	764.8	764.8	764.8	764.8	764.8	764.8

TEST NUMBER: P1010667

CATALOG NUMBER: S123DIP-B560D585UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9
2.5°	770.8	770.0	771.5	767.0	759.4	755.6	745.0	742.7	742.0	742.7	743.5
5°	749.5	748.8	746.5	738.9	729.8	723.0	710.1	709.3	704.8	700.2	702.5
7.5°	729.1	726.0	721.5	711.6	699.5	691.9	681.3	673.7	667.6	663.8	660.8
10°	708.6	704.0	699.5	686.6	671.4	660.0	647.1	641.1	634.2	631.2	628.2
12.5°	682.0	677.5	669.1	654.0	644.9	630.4	617.5	611.5	607.7	601.6	597.8
15°	660.8	651.7	647.1	631.2	612.2	610.7	587.2	585.7	578.1	578.1	572.0
17.5°	636.5	629.7	621.3	605.4	591.7	578.1	566.0	561.4	554.6	553.1	550.0
20°	613.0	603.9	600.9	584.9	570.5	553.8	540.9	536.4	533.3	530.3	532.6
22.5°	588.7	581.1	573.5	559.1	548.5	531.8	524.2	519.7	515.1	513.6	514.4
25°	565.2	558.4	550.8	536.4	525.0	511.3	504.5	502.2	500.0	500.0	499.2
27.5°	542.4	535.6	528.8	515.9	504.5	494.6	489.3	487.1	484.8	486.3	487.8
30°	518.9	512.8	506.8	495.4	486.3	477.2	474.2	472.6	471.9	475.7	475.7
32.5°	497.7	492.4	487.8	477.2	468.1	460.5	458.2	459.0	459.7	462.0	463.5
35°	475.7	471.9	467.3	458.2	450.6	443.8	444.6	444.6	446.1	449.9	452.9
37.5°	455.9	450.6	446.8	439.3	433.2	427.1	429.4	431.7	433.2	437.7	439.3
40°	432.4	430.2	427.1	419.5	414.2	413.5	414.2	415.7	418.8	421.1	423.3
42.5°	413.5	410.4	406.6	400.6	396.0	396.8	397.5	399.1	400.6	404.4	406.6
45°	392.2	389.9	386.9	381.6	377.8	378.6	379.3	379.3	380.8	385.4	386.9
47.5°	368.7	369.5	365.7	360.4	358.1	358.1	358.1	359.6	363.4	364.9	365.7
50°	345.9	344.4	343.7	338.4	336.8	336.1	336.8	337.6	342.9	342.2	344.4
52.5°	321.7	321.7	320.9	317.9	315.6	315.6	314.1	317.9	319.4	320.9	323.2
55°	298.1	295.9	295.1	293.6	290.6	289.8	291.3	295.9	297.4	298.9	301.2
57.5°	272.4	272.4	270.8	268.6	268.6	268.6	268.6	271.6	273.9	275.4	279.9
60°	248.8	245.8	243.5	243.5	243.5	242.8	247.3	247.3	251.9	252.6	254.1
62.5°	220.8	219.2	217.7	218.5	217.7	219.2	220.8	223.8	224.6	226.8	229.1
65°	194.2	194.2	192.7	197.2	194.2	194.2	198.0	198.0	199.5	201.8	204.8
67.5°	168.4	169.2	167.7	167.7	169.2	169.9	170.7	173.7	174.5	177.5	181.3
70°	141.9	143.4	144.1	142.6	144.1	145.7	147.2	147.9	151.0	152.5	154.8
72.5°	118.3	119.9	117.6	118.3	119.1	120.6	121.4	122.9	124.4	129.0	130.5
75°	94.8	94.1	93.3	96.3	94.8	97.9	98.6	98.6	100.1	103.9	105.5
77.5°	72.8	72.8	73.6	72.1	74.3	73.6	74.3	76.6	78.9	78.9	85.0
80°	50.8	52.3	52.3	52.3	53.1	53.9	52.3	56.1	56.9	56.9	59.2
82.5°	32.6	33.4	32.6	34.1	34.1	35.7	34.9	35.7	37.2	38.7	39.4
85°	17.4	17.4	19.0	19.0	18.2	19.0	18.2	19.0	20.5	20.5	21.2
87.5°	6.1	6.1	6.1	6.1	6.8	6.1	6.8	6.8	6.1	6.1	8.3
90°	5.6	6.2	7.0	8.7	10.3	12.0	13.6	14.1	14.6	15.1	15.6
92.5°	10.1	9.7	10.3	11.4	12.5	13.7	14.8	15.7	16.5	17.4	18.3
95°	14.0	11.4	12.1	13.5	14.8	16.2	17.6	18.5	19.4	20.3	21.2
97.5°	49.0	47.2	44.0	37.5	31.1	24.6	18.2	19.2	20.2	21.2	22.2
100°	106.1	107.4	97.5	77.8	58.1	38.4	18.7	19.7	20.7	21.8	22.8
102.5°	140.1	140.9	129.9	107.9	86.0	64.0	42.0	37.8	33.7	29.5	25.4
105°	174.9	175.6	169.9	158.5	147.2	135.8	124.4	102.1	79.7	57.4	35.1
107.5°	211.9	212.5	213.4	215.3	217.2	219.1	221.0	201.6	182.1	162.7	143.2
110°	249.5	250.0	250.7	252.1	253.4	254.8	256.2	252.0	247.9	243.7	239.6

TEST NUMBER: P1010667

CATALOG NUMBER: S123DIP-B560D585UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	285.4	285.8	286.5	287.9	289.2	290.6	292.0	293.2	294.3	295.5	296.6
115°	320.6	321.0	321.6	322.7	323.8	325.0	326.1	327.4	328.6	329.9	331.2
117.5°	356.4	356.8	357.1	357.8	358.4	359.1	359.7	360.7	361.7	362.7	363.7
120°	389.7	390.3	390.5	390.9	391.2	391.6	392.0	393.0	394.0	395.1	396.1
122.5°	421.8	422.2	422.4	422.9	423.4	423.9	424.4	425.0	425.7	426.3	427.0
125°	451.8	452.3	452.5	453.0	453.5	454.0	454.5	454.8	455.0	455.3	455.6
127.5°	481.3	481.8	482.1	482.8	483.4	484.1	484.7	485.1	485.5	485.8	486.2
130°	508.6	509.1	509.4	509.9	510.4	510.9	511.4	511.9	512.4	512.9	513.4
132.5°	534.7	535.2	535.4	535.8	536.1	536.5	536.9	537.4	537.9	538.4	538.9
135°	560.4	560.8	561.1	561.6	562.1	562.6	563.1	563.5	563.9	564.2	564.6
137.5°	584.2	584.7	584.8	585.1	585.3	585.6	585.8	586.4	587.0	587.7	588.3
140°	605.8	606.2	606.4	606.8	607.2	607.6	608.0	608.5	609.0	609.5	610.0
142.5°	626.9	627.3	627.5	627.9	628.2	628.6	629.0	629.4	629.8	630.1	630.5
145°	646.8	647.2	647.3	647.6	647.8	648.1	648.3	648.5	648.8	649.0	649.3
147.5°	664.5	664.8	664.9	665.2	665.4	665.7	665.9	666.1	666.4	666.6	666.9
150°	680.5	680.7	680.8	681.1	681.3	681.6	681.8	682.1	682.3	682.6	682.9
152.5°	694.8	694.9	695.0	695.1	695.2	695.4	695.5	696.0	696.5	697.0	697.5
155°	707.5	707.4	707.5	707.6	707.7	707.9	708.0	708.6	709.2	709.9	710.5
157.5°	719.9	719.9	719.8	719.7	719.6	719.4	719.3	720.1	720.8	721.6	722.3
160°	729.6	729.5	729.4	729.3	729.2	729.1	729.0	729.8	730.5	731.3	732.0
162.5°	738.3	738.1	738.0	737.9	737.8	737.6	737.5	738.4	739.3	740.2	741.1
165°	745.7	745.5	745.4	745.3	745.2	745.0	744.9	745.9	746.9	747.9	748.9
167.5°	751.4	751.1	751.1	751.1	751.1	751.1	751.1	752.1	753.1	754.2	755.2
170°	756.5	756.2	756.2	756.2	756.2	756.2	756.2	757.2	758.2	759.3	760.3
172.5°	759.4	759.1	759.2	759.3	759.4	759.6	759.7	760.7	761.7	762.7	763.7
175°	762.2	761.9	762.0	762.1	762.2	762.4	762.5	763.4	764.3	765.2	766.1
177.5°	763.4	763.1	763.2	763.3	763.4	763.5	763.6	764.6	765.6	766.7	767.7
180°	764.8	764.8	764.8	764.8	764.8	764.8	764.8	764.8	764.8	764.8	764.8

TEST NUMBER: P1010667

CATALOG NUMBER: S123DIP-B560D585UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9
2.5°	742.7	743.5	740.4	738.2	744.2	740.4	740.4	741.2	739.7	742.0	741.2
5°	701.0	701.8	696.4	698.0	694.9	694.2	693.4	698.0	697.2	696.4	698.0
7.5°	660.0	660.0	657.7	656.2	656.2	654.0	657.0	656.2	657.7	657.7	660.0
10°	625.9	627.4	623.6	619.8	619.1	619.8	619.8	620.6	621.3	626.6	625.9
12.5°	597.8	595.5	594.8	592.5	588.7	587.2	585.7	594.0	591.7	591.7	591.7
15°	566.7	572.0	571.3	564.4	562.9	566.0	564.4	564.4	572.0	571.3	570.5
17.5°	550.0	548.5	547.0	543.2	544.0	543.2	544.0	544.0	548.5	548.5	548.5
20°	531.1	528.0	528.0	526.5	526.5	524.2	527.3	528.0	531.1	531.1	531.8
22.5°	514.4	512.1	512.1	511.3	512.8	509.8	512.8	513.6	513.6	515.9	515.9
25°	500.0	498.4	498.4	500.0	500.0	500.0	500.0	503.0	500.7	501.5	500.7
27.5°	487.1	487.8	488.6	489.3	488.6	489.3	490.1	491.6	492.4	491.6	490.1
30°	474.9	477.2	477.9	477.9	479.5	480.2	481.0	481.0	481.7	479.5	481.0
32.5°	465.8	465.8	467.3	468.1	469.6	470.4	470.4	471.9	471.1	468.8	469.6
35°	452.9	452.9	455.9	457.5	459.7	459.0	459.7	459.7	460.5	459.0	456.7
37.5°	440.0	441.5	441.5	444.6	445.3	446.1	445.3	446.8	446.1	444.6	443.8
40°	424.8	424.1	424.8	427.1	427.9	427.9	427.9	429.4	429.4	429.4	428.6
42.5°	405.9	408.2	407.4	409.7	408.9	408.9	410.4	411.9	412.7	410.4	411.2
45°	387.7	387.7	389.2	389.2	389.9	389.9	393.0	391.5	393.0	391.5	392.2
47.5°	367.9	368.7	368.7	369.5	371.0	372.5	371.0	371.7	371.7	372.5	371.0
50°	345.9	345.9	347.5	349.7	352.8	351.3	350.5	353.5	351.3	351.3	349.7
52.5°	323.2	325.5	326.2	328.5	330.8	331.5	332.3	330.8	331.5	329.3	330.0
55°	301.2	301.9	305.0	307.3	309.5	309.5	308.8	309.5	310.3	307.3	307.3
57.5°	279.2	281.5	284.5	284.5	287.5	287.5	286.8	286.8	287.5	285.3	284.5
60°	255.7	257.9	261.7	261.7	266.3	267.0	265.5	264.0	264.0	261.7	262.5
62.5°	230.6	232.9	235.2	239.0	242.0	240.5	243.5	240.5	241.3	236.7	236.7
65°	208.6	209.4	213.2	217.0	217.0	218.5	217.0	217.7	215.5	215.5	212.4
67.5°	182.8	182.8	186.6	190.4	194.2	194.2	194.2	191.9	191.9	189.7	189.7
70°	160.1	159.3	163.1	165.4	167.7	168.4	166.9	166.1	164.6	162.4	161.6
72.5°	132.0	133.5	137.3	138.8	142.6	141.9	145.7	141.1	141.1	137.3	136.6
75°	107.0	108.5	112.3	114.6	116.8	116.8	119.1	116.8	113.8	112.3	111.5
77.5°	85.0	84.2	87.2	91.0	91.8	91.0	92.6	91.8	88.8	88.8	87.2
80°	60.7	63.0	66.0	65.2	68.3	67.5	67.5	66.0	66.0	63.7	65.2
82.5°	40.2	42.5	43.2	42.5	43.2	44.8	45.5	44.8	44.8	43.2	44.0
85°	21.2	21.2	22.8	23.5	22.8	22.8	23.5	25.8	24.3	22.8	24.3
87.5°	6.8	6.1	6.1	6.8	6.1	6.1	6.8	6.8	7.6	7.6	7.6
90°	15.9	16.0	16.3	16.5	16.8	17.0	16.8	16.5	16.3	16.0	15.9
92.5°	18.7	18.8	18.9	19.0	19.2	19.3	19.2	19.0	18.9	18.8	18.7
95°	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6
97.5°	22.7	22.8	22.9	23.0	23.2	23.3	23.2	23.0	22.9	22.8	22.7
100°	23.3	23.4	23.5	23.6	23.8	23.9	23.8	23.6	23.5	23.4	23.3
102.5°	23.3	23.4	23.7	23.9	24.2	24.4	24.2	23.9	23.7	23.4	23.3
105°	23.9	24.0	24.3	24.5	24.8	25.0	24.8	24.5	24.3	24.0	23.9
107.5°	133.5	125.2	108.7	92.2	75.6	59.1	75.6	92.2	108.7	125.2	133.5
110°	237.5	228.5	210.4	192.3	174.3	156.2	174.3	192.3	210.4	228.5	237.5

TEST NUMBER: P1010667

CATALOG NUMBER: S123DIP-B560D585UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	297.2	297.1	296.8	296.5	296.3	296.0	296.3	296.5	296.8	297.1	297.2
115°	331.8	332.1	332.6	333.1	333.6	334.1	333.6	333.1	332.6	332.1	331.8
117.5°	364.2	364.3	364.4	364.5	364.7	364.8	364.7	364.5	364.4	364.3	364.2
120°	396.6	396.6	396.6	396.6	396.6	396.6	396.6	396.6	396.6	396.6	396.6
122.5°	427.3	427.4	427.5	427.6	427.7	427.8	427.7	427.6	427.5	427.4	427.3
125°	455.7	455.8	456.1	456.3	456.6	456.8	456.6	456.3	456.1	455.8	455.7
127.5°	486.4	486.3	486.0	485.7	485.5	485.2	485.5	485.7	486.0	486.3	486.4
130°	513.6	513.5	513.2	513.0	512.7	512.5	512.7	513.0	513.2	513.5	513.6
132.5°	539.2	539.0	538.6	538.3	537.9	537.5	537.9	538.3	538.6	539.0	539.2
135°	564.8	564.6	564.2	563.9	563.5	563.1	563.5	563.9	564.2	564.6	564.8
137.5°	588.6	588.5	588.2	588.0	587.7	587.5	587.7	588.0	588.2	588.5	588.6
140°	610.2	610.1	609.8	609.6	609.3	609.1	609.3	609.6	609.8	610.1	610.2
142.5°	630.7	630.5	630.1	629.8	629.4	629.0	629.4	629.8	630.1	630.5	630.7
145°	649.4	649.4	649.4	649.4	649.4	649.4	649.4	649.4	649.4	649.4	649.4
147.5°	667.0	666.7	666.1	665.4	664.8	664.2	664.8	665.4	666.1	666.7	667.0
150°	683.0	682.8	682.4	682.0	681.6	681.2	681.6	682.0	682.4	682.8	683.0
152.5°	697.7	697.4	696.8	696.1	695.5	694.9	695.5	696.1	696.8	697.4	697.7
155°	710.8	710.4	709.7	708.9	708.2	707.4	708.2	708.9	709.7	710.4	710.8
157.5°	722.7	722.2	721.2	720.2	719.2	718.2	719.2	720.2	721.2	722.2	722.7
160°	732.4	732.0	731.1	730.2	729.3	728.4	729.3	730.2	731.1	732.0	732.4
162.5°	741.5	741.1	740.4	739.6	738.9	738.1	738.9	739.6	740.4	741.1	741.5
165°	749.4	749.0	748.1	747.2	746.4	745.5	746.4	747.2	748.1	749.0	749.4
167.5°	755.7	755.2	754.2	753.1	752.1	751.1	752.1	753.1	754.2	755.2	755.7
170°	760.8	760.3	759.3	758.2	757.2	756.2	757.2	758.2	759.3	760.3	760.8
172.5°	764.2	763.6	762.5	761.4	760.2	759.1	760.2	761.4	762.5	763.6	764.2
175°	766.5	766.0	765.0	763.9	762.9	761.9	762.9	763.9	765.0	766.0	766.5
177.5°	768.2	767.6	766.3	765.0	763.8	762.5	763.8	765.0	766.3	767.6	768.2
180°	764.8	764.8	764.8	764.8	764.8	764.8	764.8	764.8	764.8	764.8	764.8

TEST NUMBER: P1010667

CATALOG NUMBER: S123DIP-B560D585UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9
2.5°	743.5	745.0	745.8	742.7	740.4	744.2	749.5	753.3	756.4	760.2	762.4
5°	699.5	704.8	704.8	706.3	708.6	712.4	722.2	729.1	735.1	739.7	743.5
7.5°	662.3	666.1	668.4	672.2	676.0	681.3	692.6	702.5	711.6	716.9	723.0
10°	628.9	632.0	635.7	638.0	644.9	652.4	666.9	675.2	685.8	694.2	701.8
12.5°	597.1	607.7	610.0	609.2	615.3	623.6	638.0	650.9	662.3	670.6	679.0
15°	574.3	578.1	582.6	581.9	594.8	597.1	609.2	624.4	639.5	644.9	652.4
17.5°	549.3	555.3	559.9	562.2	566.0	574.3	585.7	597.1	616.8	617.5	637.3
20°	529.5	535.6	538.6	541.7	544.0	553.8	563.7	576.6	592.5	600.9	611.5
22.5°	516.6	519.7	522.0	524.2	527.3	532.6	544.7	559.1	569.7	578.9	585.7
25°	501.5	504.5	507.5	509.1	511.3	514.4	523.5	534.8	550.0	556.1	562.9
27.5°	490.8	490.8	492.4	492.4	495.4	498.4	505.3	515.9	528.0	535.6	544.7
30°	479.5	478.7	479.5	478.7	477.9	482.5	488.6	497.7	506.0	515.1	521.2
32.5°	468.1	467.3	467.3	468.1	465.1	467.3	470.4	478.7	487.8	492.4	499.2
35°	455.9	454.4	454.4	454.4	452.9	451.4	454.4	462.0	468.1	474.2	479.5
37.5°	443.8	441.5	441.5	440.0	438.5	436.2	436.2	442.3	450.6	452.9	459.7
40°	427.1	427.1	425.6	424.8	423.3	421.8	419.5	424.8	432.4	434.7	440.0
42.5°	410.4	408.2	407.4	407.4	407.4	405.1	403.6	407.4	411.9	415.7	418.8
45°	391.5	389.9	390.7	389.9	388.4	387.7	386.9	388.4	393.7	395.3	399.1
47.5°	371.0	370.2	370.2	369.5	368.7	369.5	366.4	370.2	371.7	373.3	376.3
50°	349.7	349.0	348.2	347.5	347.5	348.2	347.5	347.5	350.5	352.0	355.0
52.5°	328.5	326.2	326.2	325.5	325.5	323.9	325.5	326.2	327.7	329.3	330.8
55°	305.7	305.7	303.5	303.5	301.9	301.9	302.7	301.9	305.0	306.5	306.5
57.5°	283.7	280.7	281.5	279.9	278.4	277.7	277.7	279.2	280.7	280.7	282.2
60°	260.2	257.2	256.4	253.4	254.9	252.6	253.4	253.4	256.4	254.9	256.4
62.5°	236.7	232.9	230.6	229.1	229.1	229.9	228.4	227.6	229.1	230.6	233.7
65°	211.7	209.4	207.1	204.8	204.8	204.1	205.6	203.3	202.6	203.3	204.8
67.5°	185.9	183.6	181.3	179.0	179.8	177.5	176.0	178.3	176.8	177.5	179.0
70°	160.8	159.3	154.8	153.2	152.5	153.2	152.5	151.0	153.2	152.5	153.2
72.5°	135.8	134.3	132.0	128.2	128.2	127.5	126.7	126.7	125.9	125.9	125.9
75°	111.5	108.5	106.2	105.5	103.9	103.2	102.4	100.9	101.7	102.4	100.9
77.5°	86.5	82.7	81.9	81.9	79.7	79.7	80.4	79.7	78.9	78.9	78.9
80°	63.7	60.7	60.7	59.2	57.7	57.7	57.7	57.7	56.9	56.1	56.9
82.5°	41.0	40.2	39.4	39.4	41.0	37.9	39.4	38.7	37.9	37.9	37.2
85°	22.8	23.5	22.8	23.5	22.0	22.8	22.8	22.8	22.0	22.8	21.2
87.5°	8.3	8.3	8.3	9.1	9.1	9.1	9.1	9.1	9.9	9.1	9.1
90°	15.6	15.1	14.6	14.1	13.6	12.0	10.3	8.7	7.0	6.2	5.6
92.5°	18.3	17.4	16.5	15.7	14.8	13.7	12.5	11.4	10.3	9.7	10.1
95°	21.2	20.3	19.4	18.5	17.6	16.2	14.8	13.5	12.1	11.4	14.0
97.5°	22.2	21.2	20.2	19.2	18.2	24.6	31.1	37.5	44.0	47.2	49.0
100°	22.8	21.8	20.7	19.7	18.7	38.4	58.1	77.8	97.5	107.4	106.1
102.5°	25.4	29.5	33.7	37.8	42.0	64.0	86.0	107.9	129.9	140.9	140.1
105°	35.1	57.4	79.7	102.1	124.4	135.8	147.2	158.5	169.9	175.6	174.9
107.5°	143.2	162.7	182.1	201.6	221.0	219.1	217.2	215.3	213.4	212.5	211.9
110°	239.6	243.7	247.9	252.0	256.2	254.8	253.4	252.1	250.7	250.0	249.5

TEST NUMBER: P1010667

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CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	296.6	295.5	294.3	293.2	292.0	290.6	289.2	287.9	286.5	285.8	285.4
115°	331.2	329.9	328.6	327.4	326.1	325.0	323.8	322.7	321.6	321.0	320.6
117.5°	363.7	362.7	361.7	360.7	359.7	359.1	358.4	357.8	357.1	356.8	356.4
120°	396.1	395.1	394.0	393.0	392.0	391.6	391.2	390.9	390.5	390.3	389.7
122.5°	427.0	426.3	425.7	425.0	424.4	423.9	423.4	422.9	422.4	422.2	421.8
125°	455.6	455.3	455.0	454.8	454.5	454.0	453.5	453.0	452.5	452.3	451.8
127.5°	486.2	485.8	485.5	485.1	484.7	484.1	483.4	482.8	482.1	481.8	481.3
130°	513.4	512.9	512.4	511.9	511.4	510.9	510.4	509.9	509.4	509.1	508.6
132.5°	538.9	538.4	537.9	537.4	536.9	536.5	536.1	535.8	535.4	535.2	534.7
135°	564.6	564.2	563.9	563.5	563.1	562.6	562.1	561.6	561.1	560.8	560.4
137.5°	588.3	587.7	587.0	586.4	585.8	585.6	585.3	585.1	584.8	584.7	584.2
140°	610.0	609.5	609.0	608.5	608.0	607.6	607.2	606.8	606.4	606.2	605.8
142.5°	630.5	630.1	629.8	629.4	629.0	628.6	628.2	627.9	627.5	627.3	626.9
145°	649.3	649.0	648.8	648.5	648.3	648.1	647.8	647.6	647.3	647.2	646.8
147.5°	666.9	666.6	666.4	666.1	665.9	665.7	665.4	665.2	664.9	664.8	664.5
150°	682.9	682.6	682.3	682.1	681.8	681.6	681.3	681.1	680.8	680.7	680.5
152.5°	697.5	697.0	696.5	696.0	695.5	695.4	695.2	695.1	695.0	694.9	694.8
155°	710.5	709.9	709.2	708.6	708.0	707.9	707.7	707.6	707.5	707.4	707.5
157.5°	722.3	721.6	720.8	720.1	719.3	719.4	719.6	719.7	719.8	719.9	719.9
160°	732.0	731.3	730.5	729.8	729.0	729.1	729.2	729.3	729.4	729.5	729.6
162.5°	741.1	740.2	739.3	738.4	737.5	737.6	737.8	737.9	738.0	738.1	738.3
165°	748.9	747.9	746.9	745.9	744.9	745.0	745.2	745.3	745.4	745.5	745.7
167.5°	755.2	754.2	753.1	752.1	751.1	751.1	751.1	751.1	751.1	751.1	751.4
170°	760.3	759.3	758.2	757.2	756.2	756.2	756.2	756.2	756.2	756.2	756.5
172.5°	763.7	762.7	761.7	760.7	759.7	759.6	759.4	759.3	759.2	759.1	759.4
175°	766.1	765.2	764.3	763.4	762.5	762.4	762.2	762.1	762.0	761.9	762.2
177.5°	767.7	766.7	765.6	764.6	763.6	763.5	763.4	763.3	763.2	763.1	763.4
180°	764.8	764.8	764.8	764.8	764.8	764.8	764.8	764.8	764.8	764.8	764.8

TEST NUMBER: P1010667

CATALOG NUMBER: S123DIP-B560D585UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	782.9	782.9	782.9	782.9
2.5°	766.2	768.5	776.1	785.2
5°	751.1	757.1	767.8	782.2
7.5°	734.4	743.5	758.7	776.9
10°	715.4	728.3	747.3	770.0
12.5°	694.9	711.6	735.9	759.4
15°	682.0	698.7	720.7	746.5
17.5°	657.0	676.7	699.5	735.9
20°	631.2	653.2	682.8	719.2
22.5°	611.5	635.0	663.1	701.8
25°	588.0	612.2	642.6	682.8
27.5°	562.9	587.2	621.3	663.8
30°	544.0	567.5	600.1	645.6
32.5°	521.2	544.0	578.1	625.9
35°	495.4	521.2	553.8	602.4
37.5°	475.7	499.2	533.3	579.6
40°	454.4	474.9	508.3	553.8
42.5°	431.7	454.4	483.3	528.8
45°	410.4	427.1	456.7	500.0
47.5°	387.7	406.6	429.4	462.8
50°	363.4	379.3	404.4	427.1
52.5°	339.9	352.8	374.0	391.5
55°	314.8	327.7	343.7	354.3
57.5°	291.3	300.4	311.0	317.9
60°	262.5	271.6	278.4	285.3
62.5°	236.7	243.5	247.3	251.1
65°	210.1	213.9	216.2	219.2
67.5°	181.3	185.1	185.9	190.4
70°	154.8	155.5	157.0	159.3
72.5°	129.7	131.2	130.5	132.0
75°	103.9	105.5	103.9	105.5
77.5°	78.9	80.4	80.4	82.7
80°	56.9	57.7	58.4	58.4
82.5°	37.2	39.4	37.9	38.7
85°	21.2	22.0	22.0	22.8
87.5°	9.9	10.6	9.9	11.4
90°	4.3	3.1	1.8	0.6
92.5°	10.8	11.6	12.3	13.1
95°	19.2	24.3	29.5	34.7
97.5°	52.5	56.0	59.6	63.1
100°	103.6	101.1	98.5	96.0
102.5°	138.4	136.8	135.1	133.5
105°	173.5	172.1	170.7	169.3
107.5°	210.8	209.7	208.5	207.4
110°	248.5	247.5	246.5	245.5



TEST NUMBER: P1010667

CATALOG NUMBER: S123DIP-B560D585UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	284.5	283.6	282.7	281.8
115°	319.9	319.1	318.4	317.6
117.5°	355.5	354.6	353.7	352.8
120°	388.6	387.5	386.3	385.2
122.5°	420.9	420.0	419.1	418.2
125°	450.8	449.7	448.7	447.7
127.5°	480.3	479.3	478.3	477.3
130°	507.6	506.5	505.5	504.5
132.5°	533.7	532.7	531.7	530.7
135°	559.7	558.9	558.2	557.4
137.5°	583.2	582.1	581.1	580.1
140°	605.1	604.3	603.6	602.8
142.5°	626.2	625.4	624.7	623.9
145°	645.9	645.0	644.1	643.2
147.5°	663.8	663.2	662.5	661.9
150°	680.1	679.8	679.4	679.0
152.5°	694.7	694.6	694.4	694.3
155°	707.8	708.0	708.3	708.5
157.5°	719.9	719.9	719.9	719.9
160°	729.7	729.8	730.0	730.1
162.5°	738.7	739.0	739.4	739.8
165°	746.1	746.4	746.8	747.2
167.5°	751.9	752.4	752.9	753.4
170°	757.0	757.5	758.0	758.5
172.5°	760.0	760.7	761.3	761.9
175°	762.9	763.5	764.2	764.8
177.5°	764.0	764.7	765.3	765.9
180°	764.8	764.8	764.8	764.8

(END OF REPORT)