

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: P1010682

Luminaire Tested: S123DIP-B560D805UB2750-4F0-XX-W2A-A_4000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010682
REPORT IS A COMBINATION OF REPORTS P990171 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B560D805UB2750-4F0-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

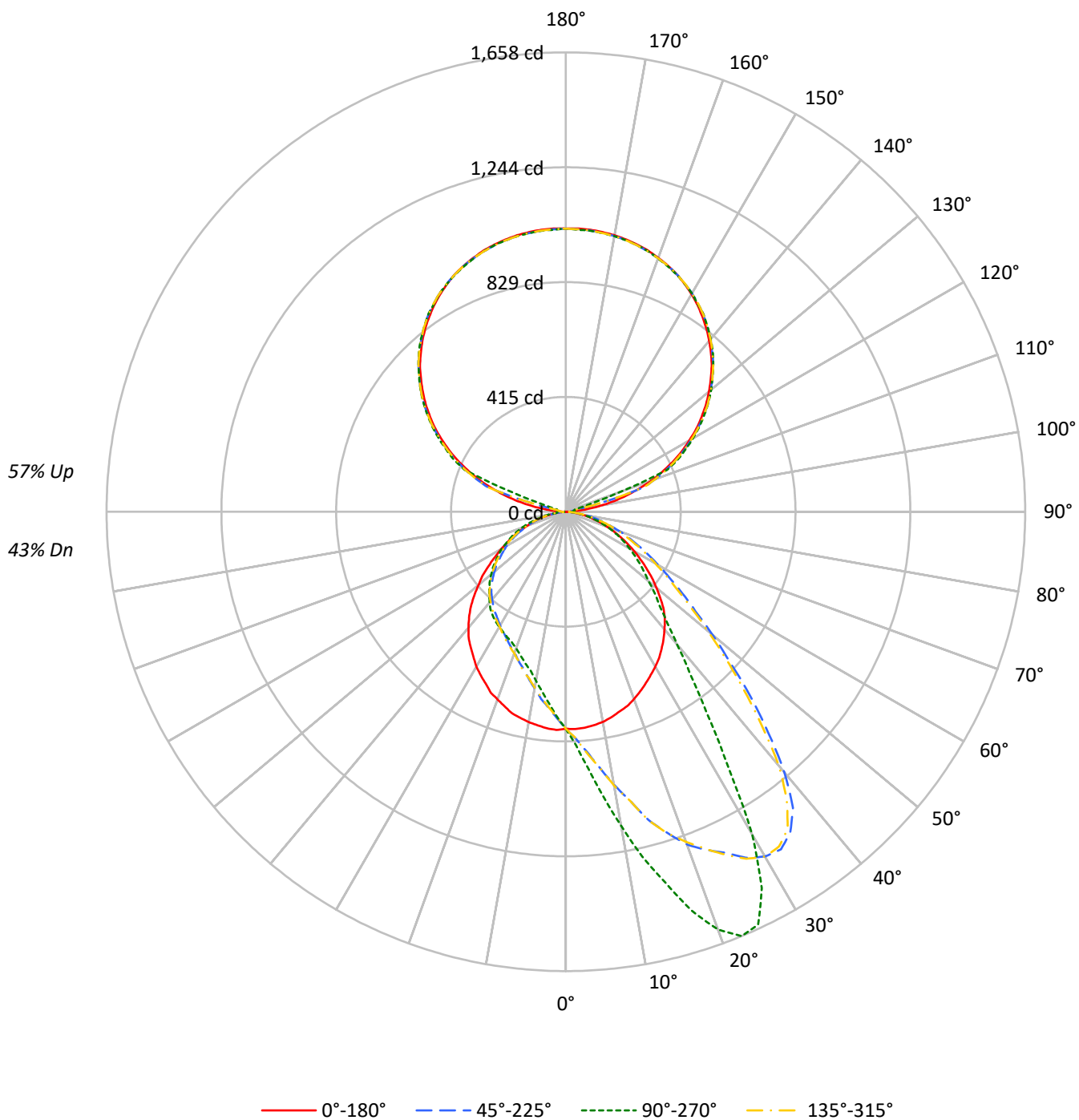
Lumens per Lamp: N/A
Luminaire Lumens: 5480.0 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.37 / 1.5
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 45.1
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	106	106	106	106	96	96	96	96	80	80	80	64	64	64	50	50	50
1	97	92	89	85	88	85	81	78	70	68	66	57	55	54	44	43	43
2	88	81	75	70	80	74	69	65	62	58	55	50	47	45	39	38	36
3	80	71	64	58	73	65	59	54	55	50	46	44	41	38	35	33	31
4	74	63	55	50	67	58	51	46	49	43	40	40	36	33	31	29	27
5	68	56	48	42	62	52	45	40	43	38	34	36	32	29	28	26	23
6	62	50	43	37	57	47	40	34	39	34	30	32	28	25	26	23	21
7	58	46	38	32	53	42	35	30	35	30	26	29	25	22	24	21	18
8	53	41	34	28	49	38	31	27	32	27	23	27	23	20	22	19	17
9	50	38	30	25	45	35	28	24	30	24	21	25	21	18	20	17	15
10	46	34	27	23	42	32	26	21	27	22	19	23	19	16	18	16	14

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	1.4
10°-20°	247.3	4.5
20°-30°	416.1	7.6
30°-40°	470.3	8.6
40°-50°	421.2	7.7
50°-60°	340.0	6.2
60°-70°	236.9	4.3
70°-80°	124.3	2.3
80°-90°	31.9	0.6
90°-100°	36.0	0.7
100°-110°	174.2	3.2
110°-120°	426.9	7.8
120°-130°	541.9	9.9
130°-140°	578.9	10.6
140°-150°	541.4	9.9
150°-160°	436.7	8.0
160°-170°	281.8	5.1
170°-180°	97.1	1.8
0°-30°	740.4	13.5
0°-40°	1210.7	22.1
0°-60°	1971.9	36.0
0°-90°	2365.0	43.2
90°-120°	637.1	11.6
90°-150°	2299.4	42.0
90°-180°	3115.0	56.8
0°-180°	5480.0	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	23	1	23	1	4
95°	46	29	46	29	46	55
105°	226	33	226	33	226	240
115°	424	446	424	446	424	419
125°	598	610	598	610	598	534
135°	745	752	745	752	745	573
145°	859	868	859	868	859	538
155°	947	945	947	945	947	436
165°	998	996	998	996	998	282
175°	1022	1018	1022	1018	1022	97
180°	1022	1022	1022	1022	1022	

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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°	0.8	2.5	4.2	5.9	7.6	8.4	9.5	11.7	13.8	16.0	18.2
92.5°	17.5	16.5	15.5	14.4	13.4	12.9	13.7	15.2	16.7	18.2	19.7
95°	46.3	39.4	32.5	25.6	18.7	15.2	16.1	18.0	19.8	21.7	23.5
97.5°	84.3	79.6	74.8	70.1	65.4	63.0	58.7	50.1	41.5	32.9	24.3
100°	128.3	131.7	135.1	138.4	141.8	143.5	130.3	104.0	77.7	51.4	25.1
102.5°	178.4	180.6	182.8	185.0	187.2	188.3	173.6	144.3	114.9	85.6	56.2
105°	226.2	228.1	229.9	231.8	233.7	234.6	227.0	211.8	196.6	181.4	166.2
107.5°	277.1	278.6	280.1	281.6	283.1	283.9	285.2	287.7	290.2	292.8	295.3
110°	327.9	329.3	330.6	332.0	333.3	334.0	334.9	336.8	338.7	340.5	342.4

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	376.5	377.7	378.9	380.0	381.2	381.8	382.7	384.6	386.5	388.3	390.2
115°	424.3	425.3	426.3	427.4	428.4	428.9	429.7	431.2	432.7	434.2	435.7
117.5°	471.4	472.6	473.8	474.9	476.1	476.7	477.1	478.0	478.8	479.7	480.5
120°	514.7	516.2	517.7	519.2	520.7	521.5	521.8	522.3	522.8	523.3	523.8
122.5°	558.7	559.9	561.1	562.2	563.4	564.0	564.3	565.0	565.7	566.4	567.1
125°	598.2	599.6	600.9	602.3	603.6	604.3	604.6	605.3	606.0	606.6	607.3
127.5°	637.7	639.0	640.4	641.7	643.0	643.7	644.1	645.0	645.8	646.7	647.5
130°	674.1	675.5	676.8	678.2	679.5	680.2	680.5	681.2	681.9	682.5	683.2
132.5°	709.0	710.4	711.7	713.1	714.4	715.1	715.4	715.9	716.4	716.9	717.4
135°	744.7	745.7	746.7	747.7	748.7	749.2	749.5	750.2	750.9	751.6	752.3
137.5°	775.1	776.4	777.8	779.1	780.4	781.1	781.3	781.6	782.0	782.3	782.7
140°	805.4	806.4	807.4	808.5	809.5	810.0	810.3	810.8	811.3	811.8	812.3
142.5°	833.5	834.5	835.5	836.6	837.6	838.1	838.3	838.8	839.3	839.8	840.3
145°	859.3	860.5	861.7	862.8	864.0	864.6	864.8	865.1	865.5	865.8	866.2
147.5°	884.4	885.2	886.1	886.9	887.8	888.2	888.4	888.7	889.0	889.4	889.7
150°	907.1	907.6	908.1	908.6	909.1	909.4	909.6	909.9	910.2	910.6	910.9
152.5°	927.6	927.8	928.0	928.1	928.3	928.4	928.5	928.7	928.8	929.0	929.2
155°	946.6	946.3	945.9	945.6	945.3	945.1	945.2	945.4	945.5	945.7	945.9
157.5°	961.8	961.8	961.8	961.8	961.8	961.8	961.7	961.5	961.4	961.2	961.0
160°	975.5	975.3	975.1	975.0	974.8	974.7	974.6	974.4	974.3	974.1	973.9
162.5°	988.4	987.9	987.4	986.9	986.4	986.1	986.0	985.8	985.7	985.5	985.3
165°	998.2	997.7	997.2	996.7	996.2	996.0	995.9	995.7	995.6	995.4	995.2
167.5°	1006.6	1005.9	1005.3	1004.6	1003.9	1003.6	1003.6	1003.6	1003.6	1003.6	1003.6
170°	1013.4	1012.7	1012.1	1011.4	1010.7	1010.4	1010.4	1010.4	1010.4	1010.4	1010.4
172.5°	1018.0	1017.2	1016.3	1015.5	1014.6	1014.2	1014.3	1014.4	1014.6	1014.7	1014.9
175°	1021.8	1021.0	1020.1	1019.3	1018.4	1018.0	1018.1	1018.2	1018.4	1018.5	1018.7
177.5°	1023.3	1022.5	1021.6	1020.8	1019.9	1019.5	1019.6	1019.8	1019.9	1020.1	1020.3
180°	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8

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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°	18.9	19.6	20.3	21.0	21.3	21.5	21.8	22.1	22.5	22.8	22.5
92.5°	20.9	22.1	23.3	24.5	25.1	25.2	25.3	25.5	25.6	25.8	25.6
95°	24.7	25.9	27.0	28.2	28.8	28.8	28.8	28.8	28.8	28.8	28.8
97.5°	25.7	27.0	28.4	29.7	30.4	30.5	30.6	30.8	30.9	31.1	30.9
100°	26.4	27.8	29.1	30.4	31.1	31.2	31.4	31.5	31.7	31.9	31.7
102.5°	50.6	45.0	39.5	33.9	31.1	31.3	31.6	31.9	32.3	32.6	32.3
105°	136.4	106.5	76.7	46.8	31.9	32.1	32.4	32.7	33.1	33.4	33.1
107.5°	269.3	243.3	217.4	191.4	178.4	167.3	145.2	123.1	101.0	78.9	101.0
110°	336.8	331.2	325.7	320.1	317.3	305.2	281.1	257.0	232.9	208.8	232.9

TEST NUMBER: P1010682

CATALOG NUMBER: S123DIP-B560D805UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	391.7	393.2	394.7	396.2	397.0	396.8	396.5	396.2	395.8	395.5	395.8
115°	437.4	439.1	440.8	442.5	443.3	443.6	444.3	445.0	445.7	446.4	445.7
117.5°	481.9	483.2	484.6	485.9	486.6	486.7	486.9	487.0	487.2	487.4	487.2
120°	525.2	526.5	527.9	529.2	529.9	529.9	529.9	529.9	529.9	529.9	529.9
122.5°	567.9	568.8	569.6	570.5	570.9	571.0	571.1	571.3	571.4	571.6	571.4
125°	607.6	608.0	608.3	608.6	608.8	609.0	609.3	609.6	610.0	610.3	610.0
127.5°	648.0	648.5	649.0	649.5	649.8	649.6	649.3	649.0	648.6	648.3	648.6
130°	683.9	684.5	685.2	685.9	686.2	686.0	685.7	685.4	685.0	684.7	685.0
132.5°	718.1	718.7	719.4	720.1	720.4	720.1	719.6	719.1	718.6	718.1	718.6
135°	752.8	753.3	753.8	754.3	754.6	754.3	753.8	753.3	752.8	752.3	752.8
137.5°	783.5	784.3	785.2	786.0	786.4	786.2	785.9	785.6	785.2	784.9	785.2
140°	813.0	813.6	814.3	815.0	815.3	815.1	814.8	814.5	814.1	813.8	814.1
142.5°	840.8	841.3	841.8	842.3	842.6	842.3	841.8	841.3	840.8	840.3	840.8
145°	866.5	866.9	867.2	867.5	867.7	867.7	867.7	867.7	867.7	867.7	867.7
147.5°	890.0	890.4	890.7	891.0	891.2	890.8	889.9	889.1	888.2	887.4	888.2
150°	911.3	911.6	912.0	912.3	912.5	912.2	911.7	911.2	910.7	910.2	910.7
152.5°	929.9	930.5	931.2	931.9	932.2	931.8	930.9	930.1	929.2	928.4	929.2
155°	946.7	947.6	948.4	949.3	949.7	949.2	948.2	947.1	946.1	945.1	946.1
157.5°	962.0	963.0	964.1	965.1	965.6	964.9	963.6	962.2	960.9	959.5	960.9
160°	974.9	975.9	977.0	978.0	978.5	977.9	976.7	975.6	974.4	973.2	974.4
162.5°	986.5	987.7	988.8	990.0	990.6	990.1	989.1	988.1	987.1	986.1	987.1
165°	996.6	997.9	999.3	1000.6	1001.3	1000.7	999.5	998.4	997.2	996.0	997.2
167.5°	1004.9	1006.3	1007.6	1008.9	1009.6	1008.9	1007.6	1006.3	1004.9	1003.6	1004.9
170°	1011.8	1013.1	1014.5	1015.8	1016.5	1015.8	1014.5	1013.1	1011.8	1010.4	1011.8
172.5°	1016.3	1017.6	1019.0	1020.3	1021.0	1020.2	1018.7	1017.2	1015.7	1014.2	1015.7
175°	1019.9	1021.1	1022.2	1023.4	1024.0	1023.3	1022.0	1020.7	1019.3	1018.0	1019.3
177.5°	1021.6	1023.0	1024.3	1025.6	1026.3	1025.5	1023.8	1022.1	1020.4	1018.7	1020.4
180°	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8

TEST NUMBER: P1010682

CATALOG NUMBER: S123DIP-B560D805UB2750-4F0-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°	22.1	21.8	21.5	21.3	21.0	20.3	19.6	18.9	18.2	16.0	13.8
92.5°	25.5	25.3	25.2	25.1	24.5	23.3	22.1	20.9	19.7	18.2	16.7
95°	28.8	28.8	28.8	28.8	28.2	27.0	25.9	24.7	23.5	21.7	19.8
97.5°	30.8	30.6	30.5	30.4	29.7	28.4	27.0	25.7	24.3	32.9	41.5
100°	31.5	31.4	31.2	31.1	30.4	29.1	27.8	26.4	25.1	51.4	77.7
102.5°	31.9	31.6	31.3	31.1	33.9	39.5	45.0	50.6	56.2	85.6	114.9
105°	32.7	32.4	32.1	31.9	46.8	76.7	106.5	136.4	166.2	181.4	196.6
107.5°	123.1	145.2	167.3	178.4	191.4	217.4	243.3	269.3	295.3	292.8	290.2
110°	257.0	281.1	305.2	317.3	320.1	325.7	331.2	336.8	342.4	340.5	338.7

TEST NUMBER: P1010682

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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	396.2	396.5	396.8	397.0	396.2	394.7	393.2	391.7	390.2	388.3	386.5
115°	445.0	444.3	443.6	443.3	442.5	440.8	439.1	437.4	435.7	434.2	432.7
117.5°	487.0	486.9	486.7	486.6	485.9	484.6	483.2	481.9	480.5	479.7	478.8
120°	529.9	529.9	529.9	529.9	529.2	527.9	526.5	525.2	523.8	523.3	522.8
122.5°	571.3	571.1	571.0	570.9	570.5	569.6	568.8	567.9	567.1	566.4	565.7
125°	609.6	609.3	609.0	608.8	608.6	608.3	608.0	607.6	607.3	606.6	606.0
127.5°	649.0	649.3	649.6	649.8	649.5	649.0	648.5	648.0	647.5	646.7	645.8
130°	685.4	685.7	686.0	686.2	685.9	685.2	684.5	683.9	683.2	682.5	681.9
132.5°	719.1	719.6	720.1	720.4	720.1	719.4	718.7	718.1	717.4	716.9	716.4
135°	753.3	753.8	754.3	754.6	754.3	753.8	753.3	752.8	752.3	751.6	750.9
137.5°	785.6	785.9	786.2	786.4	786.0	785.2	784.3	783.5	782.7	782.3	782.0
140°	814.5	814.8	815.1	815.3	815.0	814.3	813.6	813.0	812.3	811.8	811.3
142.5°	841.3	841.8	842.3	842.6	842.3	841.8	841.3	840.8	840.3	839.8	839.3
145°	867.7	867.7	867.7	867.7	867.5	867.2	866.9	866.5	866.2	865.8	865.5
147.5°	889.1	889.9	890.8	891.2	891.0	890.7	890.4	890.0	889.7	889.4	889.0
150°	911.2	911.7	912.2	912.5	912.3	912.0	911.6	911.3	910.9	910.6	910.2
152.5°	930.1	930.9	931.8	932.2	931.9	931.2	930.5	929.9	929.2	929.0	928.8
155°	947.1	948.2	949.2	949.7	949.3	948.4	947.6	946.7	945.9	945.7	945.5
157.5°	962.2	963.6	964.9	965.6	965.1	964.1	963.0	962.0	961.0	961.2	961.4
160°	975.6	976.7	977.9	978.5	978.0	977.0	975.9	974.9	973.9	974.1	974.3
162.5°	988.1	989.1	990.1	990.6	990.0	988.8	987.7	986.5	985.3	985.5	985.7
165°	998.4	999.5	1000.7	1001.3	1000.6	999.3	997.9	996.6	995.2	995.4	995.6
167.5°	1006.3	1007.6	1008.9	1009.6	1008.9	1007.6	1006.3	1004.9	1003.6	1003.6	1003.6
170°	1013.1	1014.5	1015.8	1016.5	1015.8	1014.5	1013.1	1011.8	1010.4	1010.4	1010.4
172.5°	1017.2	1018.7	1020.2	1021.0	1020.3	1019.0	1017.6	1016.3	1014.9	1014.7	1014.6
175°	1020.7	1022.0	1023.3	1024.0	1023.4	1022.2	1021.1	1019.9	1018.7	1018.5	1018.4
177.5°	1022.1	1023.8	1025.5	1026.3	1025.6	1024.3	1023.0	1021.6	1020.3	1020.1	1019.9
180°	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8

TEST NUMBER: P1010682

CATALOG NUMBER: S123DIP-B560D805UB2750-4F0-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°	11.7	9.5	8.4	7.6	5.9	4.2	2.5	0.8	2.5	4.2	5.9
92.5°	15.2	13.7	12.9	13.4	14.4	15.5	16.5	17.5	16.5	15.5	14.4
95°	18.0	16.1	15.2	18.7	25.6	32.5	39.4	46.3	39.4	32.5	25.6
97.5°	50.1	58.7	63.0	65.4	70.1	74.8	79.6	84.3	79.6	74.8	70.1
100°	104.0	130.3	143.5	141.8	138.4	135.1	131.7	128.3	131.7	135.1	138.4
102.5°	144.3	173.6	188.3	187.2	185.0	182.8	180.6	178.4	180.6	182.8	185.0
105°	211.8	227.0	234.6	233.7	231.8	229.9	228.1	226.2	228.1	229.9	231.8
107.5°	287.7	285.2	283.9	283.1	281.6	280.1	278.6	277.1	278.6	280.1	281.6
110°	336.8	334.9	334.0	333.3	332.0	330.6	329.3	327.9	329.3	330.6	332.0

TEST NUMBER: P1010682

CATALOG NUMBER: S123DIP-B560D805UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	384.6	382.7	381.8	381.2	380.0	378.9	377.7	376.5	377.7	378.9	380.0
115°	431.2	429.7	428.9	428.4	427.4	426.3	425.3	424.3	425.3	426.3	427.4
117.5°	478.0	477.1	476.7	476.1	474.9	473.8	472.6	471.4	472.6	473.8	474.9
120°	522.3	521.8	521.5	520.7	519.2	517.7	516.2	514.7	516.2	517.7	519.2
122.5°	565.0	564.3	564.0	563.4	562.2	561.1	559.9	558.7	559.9	561.1	562.2
125°	605.3	604.6	604.3	603.6	602.3	600.9	599.6	598.2	599.6	600.9	602.3
127.5°	645.0	644.1	643.7	643.0	641.7	640.4	639.0	637.7	639.0	640.4	641.7
130°	681.2	680.5	680.2	679.5	678.2	676.8	675.5	674.1	675.5	676.8	678.2
132.5°	715.9	715.4	715.1	714.4	713.1	711.7	710.4	709.0	710.4	711.7	713.1
135°	750.2	749.5	749.2	748.7	747.7	746.7	745.7	744.7	745.7	746.7	747.7
137.5°	781.6	781.3	781.1	780.4	779.1	777.8	776.4	775.1	776.4	777.8	779.1
140°	810.8	810.3	810.0	809.5	808.5	807.4	806.4	805.4	806.4	807.4	808.5
142.5°	838.8	838.3	838.1	837.6	836.6	835.5	834.5	833.5	834.5	835.5	836.6
145°	865.1	864.8	864.6	864.0	862.8	861.7	860.5	859.3	860.5	861.7	862.8
147.5°	888.7	888.4	888.2	887.8	886.9	886.1	885.2	884.4	885.2	886.1	886.9
150°	909.9	909.6	909.4	909.1	908.6	908.1	907.6	907.1	907.6	908.1	908.6
152.5°	928.7	928.5	928.4	928.3	928.1	928.0	927.8	927.6	927.8	928.0	928.1
155°	945.4	945.2	945.1	945.3	945.6	945.9	946.3	946.6	946.3	945.9	945.6
157.5°	961.5	961.7	961.8	961.8	961.8	961.8	961.8	961.8	961.8	961.8	961.8
160°	974.4	974.6	974.7	974.8	975.0	975.1	975.3	975.5	975.3	975.1	975.0
162.5°	985.8	986.0	986.1	986.4	986.9	987.4	987.9	988.4	987.9	987.4	986.9
165°	995.7	995.9	996.0	996.2	996.7	997.2	997.7	998.2	997.7	997.2	996.7
167.5°	1003.6	1003.6	1003.6	1003.9	1004.6	1005.3	1005.9	1006.6	1005.9	1005.3	1004.6
170°	1010.4	1010.4	1010.4	1010.7	1011.4	1012.1	1012.7	1013.4	1012.7	1012.1	1011.4
172.5°	1014.4	1014.3	1014.2	1014.6	1015.5	1016.3	1017.2	1018.0	1017.2	1016.3	1015.5
175°	1018.2	1018.1	1018.0	1018.4	1019.3	1020.1	1021.0	1021.8	1021.0	1020.1	1019.3
177.5°	1019.8	1019.6	1019.5	1019.9	1020.8	1021.6	1022.5	1023.3	1022.5	1021.6	1020.8
180°	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8

TEST NUMBER: P1010682

CATALOG NUMBER: S123DIP-B560D805UB2750-4F0-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°	7.6	8.4	9.5	11.7	13.8	16.0	18.2	18.9	19.6	20.3	21.0
92.5°	13.4	12.9	13.7	15.2	16.7	18.2	19.7	20.9	22.1	23.3	24.5
95°	18.7	15.2	16.1	18.0	19.8	21.7	23.5	24.7	25.9	27.0	28.2
97.5°	65.4	63.0	58.7	50.1	41.5	32.9	24.3	25.7	27.0	28.4	29.7
100°	141.8	143.5	130.3	104.0	77.7	51.4	25.1	26.4	27.8	29.1	30.4
102.5°	187.2	188.3	173.6	144.3	114.9	85.6	56.2	50.6	45.0	39.5	33.9
105°	233.7	234.6	227.0	211.8	196.6	181.4	166.2	136.4	106.5	76.7	46.8
107.5°	283.1	283.9	285.2	287.7	290.2	292.8	295.3	269.3	243.3	217.4	191.4
110°	333.3	334.0	334.9	336.8	338.7	340.5	342.4	336.8	331.2	325.7	320.1

TEST NUMBER: P1010682

CATALOG NUMBER: S123DIP-B560D805UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	381.2	381.8	382.7	384.6	386.5	388.3	390.2	391.7	393.2	394.7	396.2
115°	428.4	428.9	429.7	431.2	432.7	434.2	435.7	437.4	439.1	440.8	442.5
117.5°	476.1	476.7	477.1	478.0	478.8	479.7	480.5	481.9	483.2	484.6	485.9
120°	520.7	521.5	521.8	522.3	522.8	523.3	523.8	525.2	526.5	527.9	529.2
122.5°	563.4	564.0	564.3	565.0	565.7	566.4	567.1	567.9	568.8	569.6	570.5
125°	603.6	604.3	604.6	605.3	606.0	606.6	607.3	607.6	608.0	608.3	608.6
127.5°	643.0	643.7	644.1	645.0	645.8	646.7	647.5	648.0	648.5	649.0	649.5
130°	679.5	680.2	680.5	681.2	681.9	682.5	683.2	683.9	684.5	685.2	685.9
132.5°	714.4	715.1	715.4	715.9	716.4	716.9	717.4	718.1	718.7	719.4	720.1
135°	748.7	749.2	749.5	750.2	750.9	751.6	752.3	752.8	753.3	753.8	754.3
137.5°	780.4	781.1	781.3	781.6	782.0	782.3	782.7	783.5	784.3	785.2	786.0
140°	809.5	810.0	810.3	810.8	811.3	811.8	812.3	813.0	813.6	814.3	815.0
142.5°	837.6	838.1	838.3	838.8	839.3	839.8	840.3	840.8	841.3	841.8	842.3
145°	864.0	864.6	864.8	865.1	865.5	865.8	866.2	866.5	866.9	867.2	867.5
147.5°	887.8	888.2	888.4	888.7	889.0	889.4	889.7	890.0	890.4	890.7	891.0
150°	909.1	909.4	909.6	909.9	910.2	910.6	910.9	911.3	911.6	912.0	912.3
152.5°	928.3	928.4	928.5	928.7	928.8	929.0	929.2	929.9	930.5	931.2	931.9
155°	945.3	945.1	945.2	945.4	945.5	945.7	945.9	946.7	947.6	948.4	949.3
157.5°	961.8	961.8	961.7	961.5	961.4	961.2	961.0	962.0	963.0	964.1	965.1
160°	974.8	974.7	974.6	974.4	974.3	974.1	973.9	974.9	975.9	977.0	978.0
162.5°	986.4	986.1	986.0	985.8	985.7	985.5	985.3	986.5	987.7	988.8	990.0
165°	996.2	996.0	995.9	995.7	995.6	995.4	995.2	996.6	997.9	999.3	1000.6
167.5°	1003.9	1003.6	1003.6	1003.6	1003.6	1003.6	1003.6	1004.9	1006.3	1007.6	1008.9
170°	1010.7	1010.4	1010.4	1010.4	1010.4	1010.4	1010.4	1011.8	1013.1	1014.5	1015.8
172.5°	1014.6	1014.2	1014.3	1014.4	1014.6	1014.7	1014.9	1016.3	1017.6	1019.0	1020.3
175°	1018.4	1018.0	1018.1	1018.2	1018.4	1018.5	1018.7	1019.9	1021.1	1022.2	1023.4
177.5°	1019.9	1019.5	1019.6	1019.8	1019.9	1020.1	1020.3	1021.6	1023.0	1024.3	1025.6
180°	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8

TEST NUMBER: P1010682

CATALOG NUMBER: S123DIP-B560D805UB2750-4F0-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°	21.3	21.5	21.8	22.1	22.5	22.8	22.5	22.1	21.8	21.5	21.3
92.5°	25.1	25.2	25.3	25.5	25.6	25.8	25.6	25.5	25.3	25.2	25.1
95°	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8
97.5°	30.4	30.5	30.6	30.8	30.9	31.1	30.9	30.8	30.6	30.5	30.4
100°	31.1	31.2	31.4	31.5	31.7	31.9	31.7	31.5	31.4	31.2	31.1
102.5°	31.1	31.3	31.6	31.9	32.3	32.6	32.3	31.9	31.6	31.3	31.1
105°	31.9	32.1	32.4	32.7	33.1	33.4	33.1	32.7	32.4	32.1	31.9
107.5°	178.4	167.3	145.2	123.1	101.0	78.9	101.0	123.1	145.2	167.3	178.4
110°	317.3	305.2	281.1	257.0	232.9	208.8	232.9	257.0	281.1	305.2	317.3

TEST NUMBER: P1010682

CATALOG NUMBER: S123DIP-B560D805UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	397.0	396.8	396.5	396.2	395.8	395.5	395.8	396.2	396.5	396.8	397.0
115°	443.3	443.6	444.3	445.0	445.7	446.4	445.7	445.0	444.3	443.6	443.3
117.5°	486.6	486.7	486.9	487.0	487.2	487.4	487.2	487.0	486.9	486.7	486.6
120°	529.9	529.9	529.9	529.9	529.9	529.9	529.9	529.9	529.9	529.9	529.9
122.5°	570.9	571.0	571.1	571.3	571.4	571.6	571.4	571.3	571.1	571.0	570.9
125°	608.8	609.0	609.3	609.6	610.0	610.3	610.0	609.6	609.3	609.0	608.8
127.5°	649.8	649.6	649.3	649.0	648.6	648.3	648.6	649.0	649.3	649.6	649.8
130°	686.2	686.0	685.7	685.4	685.0	684.7	685.0	685.4	685.7	686.0	686.2
132.5°	720.4	720.1	719.6	719.1	718.6	718.1	718.6	719.1	719.6	720.1	720.4
135°	754.6	754.3	753.8	753.3	752.8	752.3	752.8	753.3	753.8	754.3	754.6
137.5°	786.4	786.2	785.9	785.6	785.2	784.9	785.2	785.6	785.9	786.2	786.4
140°	815.3	815.1	814.8	814.5	814.1	813.8	814.1	814.5	814.8	815.1	815.3
142.5°	842.6	842.3	841.8	841.3	840.8	840.3	840.8	841.3	841.8	842.3	842.6
145°	867.7	867.7	867.7	867.7	867.7	867.7	867.7	867.7	867.7	867.7	867.7
147.5°	891.2	890.8	889.9	889.1	888.2	887.4	888.2	889.1	889.9	890.8	891.2
150°	912.5	912.2	911.7	911.2	910.7	910.2	910.7	911.2	911.7	912.2	912.5
152.5°	932.2	931.8	930.9	930.1	929.2	928.4	929.2	930.1	930.9	931.8	932.2
155°	949.7	949.2	948.2	947.1	946.1	945.1	946.1	947.1	948.2	949.2	949.7
157.5°	965.6	964.9	963.6	962.2	960.9	959.5	960.9	962.2	963.6	964.9	965.6
160°	978.5	977.9	976.7	975.6	974.4	973.2	974.4	975.6	976.7	977.9	978.5
162.5°	990.6	990.1	989.1	988.1	987.1	986.1	987.1	988.1	989.1	990.1	990.6
165°	1001.3	1000.7	999.5	998.4	997.2	996.0	997.2	998.4	999.5	1000.7	1001.3
167.5°	1009.6	1008.9	1007.6	1006.3	1004.9	1003.6	1004.9	1006.3	1007.6	1008.9	1009.6
170°	1016.5	1015.8	1014.5	1013.1	1011.8	1010.4	1011.8	1013.1	1014.5	1015.8	1016.5
172.5°	1021.0	1020.2	1018.7	1017.2	1015.7	1014.2	1015.7	1017.2	1018.7	1020.2	1021.0
175°	1024.0	1023.3	1022.0	1020.7	1019.3	1018.0	1019.3	1020.7	1022.0	1023.3	1024.0
177.5°	1026.3	1025.5	1023.8	1022.1	1020.4	1018.7	1020.4	1022.1	1023.8	1025.5	1026.3
180°	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8

TEST NUMBER: P1010682

CATALOG NUMBER: S123DIP-B560D805UB2750-4F0-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°	21.0	20.3	19.6	18.9	18.2	16.0	13.8	11.7	9.5	8.4	7.6
92.5°	24.5	23.3	22.1	20.9	19.7	18.2	16.7	15.2	13.7	12.9	13.4
95°	28.2	27.0	25.9	24.7	23.5	21.7	19.8	18.0	16.1	15.2	18.7
97.5°	29.7	28.4	27.0	25.7	24.3	32.9	41.5	50.1	58.7	63.0	65.4
100°	30.4	29.1	27.8	26.4	25.1	51.4	77.7	104.0	130.3	143.5	141.8
102.5°	33.9	39.5	45.0	50.6	56.2	85.6	114.9	144.3	173.6	188.3	187.2
105°	46.8	76.7	106.5	136.4	166.2	181.4	196.6	211.8	227.0	234.6	233.7
107.5°	191.4	217.4	243.3	269.3	295.3	292.8	290.2	287.7	285.2	283.9	283.1
110°	320.1	325.7	331.2	336.8	342.4	340.5	338.7	336.8	334.9	334.0	333.3

TEST NUMBER: P1010682

CATALOG NUMBER: S123DIP-B560D805UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	396.2	394.7	393.2	391.7	390.2	388.3	386.5	384.6	382.7	381.8	381.2
115°	442.5	440.8	439.1	437.4	435.7	434.2	432.7	431.2	429.7	428.9	428.4
117.5°	485.9	484.6	483.2	481.9	480.5	479.7	478.8	478.0	477.1	476.7	476.1
120°	529.2	527.9	526.5	525.2	523.8	523.3	522.8	522.3	521.8	521.5	520.7
122.5°	570.5	569.6	568.8	567.9	567.1	566.4	565.7	565.0	564.3	564.0	563.4
125°	608.6	608.3	608.0	607.6	607.3	606.6	606.0	605.3	604.6	604.3	603.6
127.5°	649.5	649.0	648.5	648.0	647.5	646.7	645.8	645.0	644.1	643.7	643.0
130°	685.9	685.2	684.5	683.9	683.2	682.5	681.9	681.2	680.5	680.2	679.5
132.5°	720.1	719.4	718.7	718.1	717.4	716.9	716.4	715.9	715.4	715.1	714.4
135°	754.3	753.8	753.3	752.8	752.3	751.6	750.9	750.2	749.5	749.2	748.7
137.5°	786.0	785.2	784.3	783.5	782.7	782.3	782.0	781.6	781.3	781.1	780.4
140°	815.0	814.3	813.6	813.0	812.3	811.8	811.3	810.8	810.3	810.0	809.5
142.5°	842.3	841.8	841.3	840.8	840.3	839.8	839.3	838.8	838.3	838.1	837.6
145°	867.5	867.2	866.9	866.5	866.2	865.8	865.5	865.1	864.8	864.6	864.0
147.5°	891.0	890.7	890.4	890.0	889.7	889.4	889.0	888.7	888.4	888.2	887.8
150°	912.3	912.0	911.6	911.3	910.9	910.6	910.2	909.9	909.6	909.4	909.1
152.5°	931.9	931.2	930.5	929.9	929.2	929.0	928.8	928.7	928.5	928.4	928.3
155°	949.3	948.4	947.6	946.7	945.9	945.7	945.5	945.4	945.2	945.1	945.3
157.5°	965.1	964.1	963.0	962.0	961.0	961.2	961.4	961.5	961.7	961.8	961.8
160°	978.0	977.0	975.9	974.9	973.9	974.1	974.3	974.4	974.6	974.7	974.8
162.5°	990.0	988.8	987.7	986.5	985.3	985.5	985.7	985.8	986.0	986.1	986.4
165°	1000.6	999.3	997.9	996.6	995.2	995.4	995.6	995.7	995.9	996.0	996.2
167.5°	1008.9	1007.6	1006.3	1004.9	1003.6	1003.6	1003.6	1003.6	1003.6	1003.6	1003.9
170°	1015.8	1014.5	1013.1	1011.8	1010.4	1010.4	1010.4	1010.4	1010.4	1010.4	1010.7
172.5°	1020.3	1019.0	1017.6	1016.3	1014.9	1014.7	1014.6	1014.4	1014.3	1014.2	1014.6
175°	1023.4	1022.2	1021.1	1019.9	1018.7	1018.5	1018.4	1018.2	1018.1	1018.0	1018.4
177.5°	1025.6	1024.3	1023.0	1021.6	1020.3	1020.1	1019.9	1019.8	1019.6	1019.5	1019.9
180°	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8

TEST NUMBER: P1010682

CATALOG NUMBER: S123DIP-B560D805UB2750-4F0-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°	5.9	4.2	2.5	0.8
92.5°	14.4	15.5	16.5	17.5
95°	25.6	32.5	39.4	46.3
97.5°	70.1	74.8	79.6	84.3
100°	138.4	135.1	131.7	128.3
102.5°	185.0	182.8	180.6	178.4
105°	231.8	229.9	228.1	226.2
107.5°	281.6	280.1	278.6	277.1
110°	332.0	330.6	329.3	327.9

TEST NUMBER: P1010682

CATALOG NUMBER: S123DIP-B560D805UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	380.0	378.9	377.7	376.5
115°	427.4	426.3	425.3	424.3
117.5°	474.9	473.8	472.6	471.4
120°	519.2	517.7	516.2	514.7
122.5°	562.2	561.1	559.9	558.7
125°	602.3	600.9	599.6	598.2
127.5°	641.7	640.4	639.0	637.7
130°	678.2	676.8	675.5	674.1
132.5°	713.1	711.7	710.4	709.0
135°	747.7	746.7	745.7	744.7
137.5°	779.1	777.8	776.4	775.1
140°	808.5	807.4	806.4	805.4
142.5°	836.6	835.5	834.5	833.5
145°	862.8	861.7	860.5	859.3
147.5°	886.9	886.1	885.2	884.4
150°	908.6	908.1	907.6	907.1
152.5°	928.1	928.0	927.8	927.6
155°	945.6	945.9	946.3	946.6
157.5°	961.8	961.8	961.8	961.8
160°	975.0	975.1	975.3	975.5
162.5°	986.9	987.4	987.9	988.4
165°	996.7	997.2	997.7	998.2
167.5°	1004.6	1005.3	1005.9	1006.6
170°	1011.4	1012.1	1012.7	1013.4
172.5°	1015.5	1016.3	1017.2	1018.0
175°	1019.3	1020.1	1021.0	1021.8
177.5°	1020.8	1021.6	1022.5	1023.3
180°	1021.8	1021.8	1021.8	1021.8

(END OF REPORT)