

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P998094

Luminaire Tested: SA2XXDIP-B290D1080UB2750-4F0-XX-W2A-A_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P998094
REPORT IS A COMBINATION OF REPORTS P983831 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-B290D1080UB2750-4F0-XX-W2A-A_5000K
Description: Define 2 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

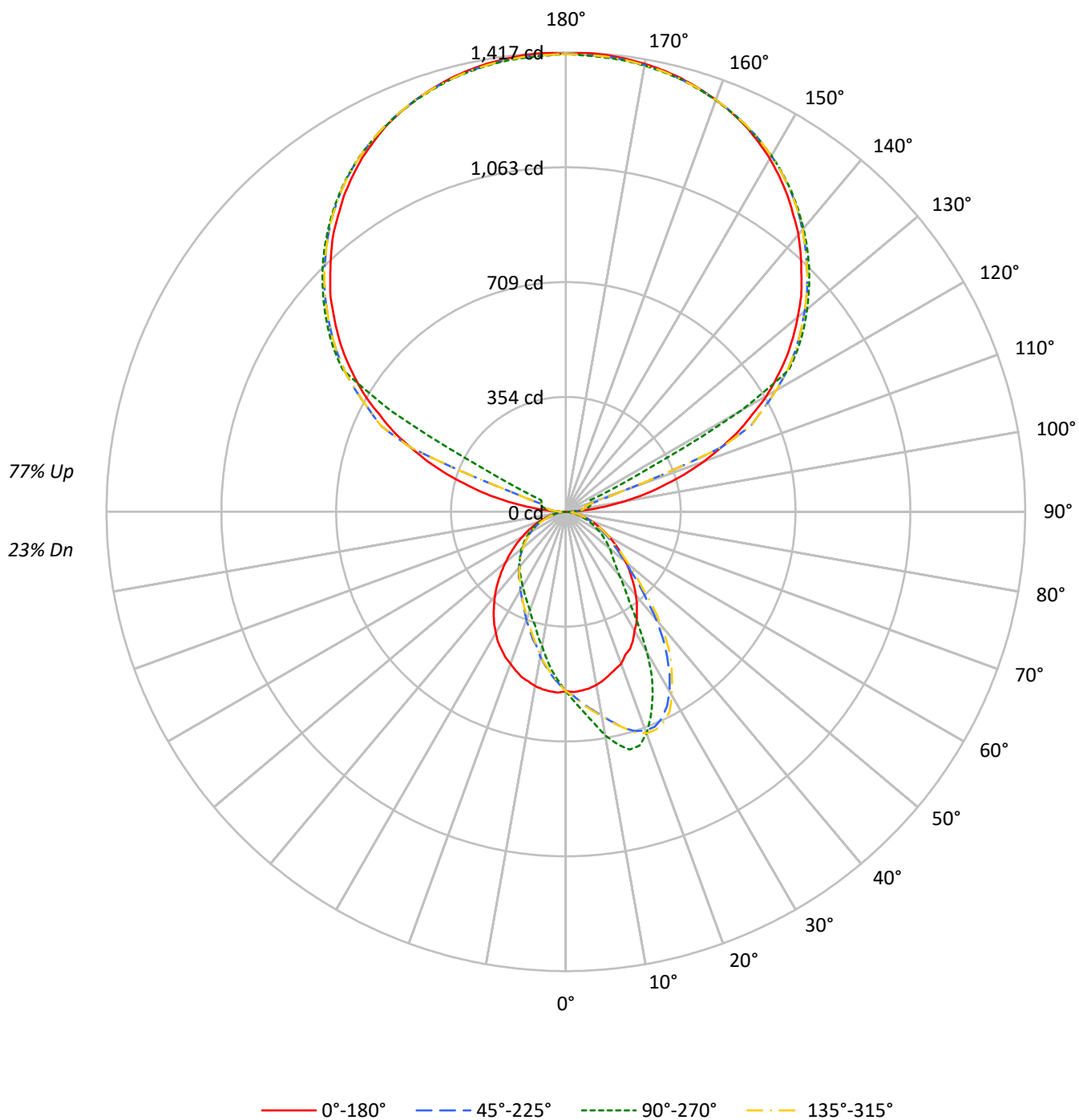
Lumens per Lamp: N/A
Luminaire Lumens: 5362.0 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.23
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 48
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



TEST NUMBER: P998094

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	101	101	101	101	89	89	89	89	68	68	68	49	49	49	31	31	31	23		
1	92	88	84	81	81	78	75	72	60	58	56	43	42	41	28	27	27	20		
2	84	77	71	66	74	68	64	60	53	50	47	38	36	34	25	24	23	17		
3	77	68	61	55	68	60	55	50	47	43	40	34	31	29	22	21	20	14		
4	70	60	53	47	62	54	47	42	41	37	34	30	28	25	20	18	17	13		
5	64	53	46	40	57	48	41	36	37	33	29	27	24	22	18	16	15	11		
6	59	48	40	35	52	43	36	32	33	29	25	25	22	19	16	15	13	10		
7	55	43	35	30	48	39	32	28	30	26	22	22	19	17	15	13	12	9		
8	51	39	32	27	45	35	29	24	27	23	20	20	17	15	14	12	11	8		
9	47	35	28	24	42	32	26	22	25	21	17	19	16	14	13	11	10	7		
10	44	32	26	21	39	29	23	19	23	19	16	17	14	12	12	10	9	7		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8760	8760	8760	8760
5°	8781	9341	8815	7431
10°	8680	10197	8734	6127
15°	8468	10755	8587	5160
20°	8337	10098	8337	4486
25°	8071	8676	8107	4012
30°	7634	6819	7780	3633
35°	7247	4716	7367	3324
40°	6800	3561	6879	3078
45°	6253	2926	6355	2812
50°	5778	2568	5787	2574
55°	5236	2188	5271	2316
60°	4661	1828	4725	2021
65°	4145	1487	4220	1726
70°	3629	1166	3720	1392
75°	3043	846	3166	1009
80°	2379	536	2547	599
85°	1568	270	1681	200

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°

Vertical Angle: 45°

Luminance: 9055 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.7	1.0
10°-20°	153.4	2.9
20°-30°	222.7	4.2
30°-40°	234.7	4.4
40°-50°	207.7	3.9
50°-60°	165.9	3.1
60°-70°	112.7	2.1
70°-80°	57.6	1.1
80°-90°	16.1	0.3
90°-100°	46.6	0.9
100°-110°	173.5	3.2
110°-120°	460.2	8.6
120°-130°	763.3	14.2
130°-140°	810.8	15.1
140°-150°	753.6	14.1
150°-160°	605.8	11.3
160°-170°	390.4	7.3
170°-180°	134.4	2.5
0°-30°	428.8	8.0
0°-40°	663.5	12.4
0°-60°	1037.1	19.3
0°-90°	1223.5	22.8
90°-120°	680.3	12.7
90°-150°	3007.9	56.1
90°-180°	4139.0	77.2
0°-180°	5362.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	553	553	553	553	553	
5°	554	618	556	492	554	53
15°	520	760	528	364	520	147
25°	468	633	470	293	468	214
35°	382	345	388	243	382	239
45°	286	208	291	200	286	222
55°	196	146	198	154	196	175
65°	117	90	119	104	117	116
75°	54	44	57	53	54	58
85°	11	12	12	8	11	13
90°	1	28	1	28	1	4
95°	66	44	66	44	66	79
105°	310	78	310	78	310	332
115°	587	84	587	84	587	578
125°	830	873	830	873	830	741
135°	1028	1061	1028	1061	1028	794
145°	1192	1210	1192	1210	1192	746
155°	1313	1314	1313	1314	1313	605
165°	1383	1380	1383	1380	1383	391
175°	1415	1407	1415	1407	1415	135
180°	1412	1412	1412	1412	1412	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4
2.5°	556.4	557.7	559.8	560.2	564.5	567.9	571.7	571.7	573.0	572.6	569.2
5°	553.8	557.7	563.2	567.9	575.5	578.9	584.0	587.9	591.3	593.8	593.4
7.5°	549.6	556.4	564.5	573.4	583.6	589.6	596.8	603.6	608.3	612.5	615.5
10°	542.4	553.8	564.9	576.8	590.0	598.1	606.6	615.5	622.8	630.8	638.5
12.5°	532.6	549.2	562.8	578.5	594.7	603.6	617.2	624.0	638.1	658.5	664.0
15°	520.2	542.8	555.5	575.5	596.8	604.0	622.8	633.8	662.7	675.5	690.8
17.5°	508.7	533.8	550.9	573.8	594.7	608.7	627.0	649.5	673.8	692.1	709.1
20°	499.4	523.6	544.1	569.6	596.0	613.8	633.0	660.2	686.6	705.3	718.5
22.5°	478.1	509.2	533.0	561.5	593.4	618.1	636.4	666.1	694.6	706.1	717.6
25°	467.5	494.3	521.9	554.3	591.7	621.0	636.8	670.0	695.1	699.3	701.9
27.5°	447.9	478.1	510.5	547.5	591.3	615.9	635.9	666.1	686.1	683.2	675.5
30°	423.7	460.7	496.4	536.4	585.3	612.1	630.8	658.5	668.7	653.4	639.8
32.5°	405.8	440.7	480.2	526.6	578.5	604.0	622.3	644.0	646.1	618.5	595.5
35°	381.6	420.3	464.9	513.9	567.0	590.0	607.0	620.2	610.0	571.3	544.1
37.5°	359.9	398.2	445.8	495.6	551.3	573.8	587.4	589.6	564.5	530.4	490.5
40°	336.0	375.6	425.4	477.7	533.8	553.4	561.9	555.5	519.4	479.8	433.5
42.5°	312.2	351.4	405.0	458.6	511.7	528.3	531.7	514.3	470.0	423.7	370.1
45°	286.3	327.1	380.7	434.7	486.2	495.6	496.0	470.9	418.6	370.1	320.3
47.5°	265.0	302.9	356.0	410.1	453.5	459.8	457.3	428.4	371.4	316.9	273.5
50°	241.6	277.8	330.5	383.7	420.7	422.4	416.0	374.8	319.0	269.3	234.8
52.5°	216.5	253.1	301.6	352.6	385.8	383.3	370.9	326.7	274.4	233.1	206.7
55°	196.5	228.9	274.4	324.1	347.5	340.3	326.7	281.6	240.3	205.5	182.5
57.5°	174.4	202.9	247.6	291.0	304.6	297.8	284.2	242.0	203.8	177.4	162.1
60°	153.6	179.5	218.6	254.8	265.4	258.2	242.5	204.6	177.0	154.8	143.4
62.5°	134.4	157.0	189.7	222.9	227.2	219.9	206.3	175.7	151.9	134.4	125.9
65°	116.6	137.8	164.2	189.3	193.1	185.5	171.4	149.3	129.3	118.3	110.2
67.5°	99.1	116.1	139.5	157.8	159.9	152.7	141.2	123.4	111.0	99.1	93.2
70°	83.8	96.6	114.9	129.7	130.6	123.8	117.8	101.7	92.3	83.8	79.1
72.5°	68.9	77.8	91.9	102.9	103.4	99.1	93.6	83.4	75.3	69.3	64.7
75°	54.4	62.1	70.6	80.4	80.0	76.6	72.3	65.9	59.1	55.3	53.2
77.5°	41.7	46.4	53.2	59.6	59.6	57.9	55.3	50.6	46.4	42.5	40.4
80°	29.8	32.8	38.3	40.4	41.3	40.8	38.7	35.3	33.6	30.6	29.8
82.5°	19.1	21.3	23.8	25.9	27.2	26.4	25.9	24.2	21.7	20.8	20.0
85°	11.1	11.9	13.2	14.5	14.9	14.5	15.3	14.0	12.8	12.8	12.3
87.5°	4.7	5.1	6.0	6.0	6.4	6.4	6.0	6.4	6.4	6.0	5.5
90°	1.0	3.5	6.0	8.5	11.0	12.3	13.2	15.0	16.8	18.6	20.4
92.5°	25.5	24.6	23.7	22.8	21.9	21.5	21.8	22.5	23.2	23.8	24.5
95°	66.4	58.9	51.4	43.9	36.4	32.7	33.5	35.1	36.6	38.2	39.8
97.5°	119.5	100.9	82.3	63.7	45.1	35.8	37.6	41.2	44.9	48.5	52.1
100°	180.8	149.7	118.6	87.5	56.4	40.9	42.8	46.7	50.5	54.4	58.2
102.5°	248.2	247.8	247.3	246.9	246.4	246.2	225.5	184.2	142.9	101.6	60.3
105°	310.5	317.3	324.1	331.0	337.8	341.2	310.2	248.2	186.3	124.3	62.3
107.5°	383.1	388.8	394.4	400.1	405.8	408.6	370.4	293.9	217.4	140.9	64.4
110°	452.5	457.3	462.1	466.8	471.6	474.0	441.2	375.6	310.0	244.4	178.8

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	517.9	522.0	526.1	530.2	534.3	536.3	534.4	530.5	526.6	522.8	518.9
115°	587.3	591.2	595.0	598.9	602.8	604.7	607.5	613.2	618.9	624.5	630.2
117.5°	647.6	652.1	656.7	661.2	665.7	668.0	669.9	673.8	677.7	681.5	685.4
120°	715.0	718.4	721.8	725.2	728.6	730.3	732.3	736.4	740.5	744.6	748.7
122.5°	772.2	775.8	779.5	783.1	786.8	788.6	790.9	795.4	799.9	804.5	809.0
125°	830.5	833.4	836.4	839.3	842.2	843.7	845.9	850.2	854.5	858.8	863.1
127.5°	883.6	886.8	890.0	893.1	896.3	897.9	899.6	903.0	906.4	909.8	913.2
130°	933.6	937.2	940.9	944.5	948.2	950.0	951.2	953.7	956.2	958.7	961.2
132.5°	984.7	987.7	990.6	993.6	996.5	998.0	999.2	1001.7	1004.2	1006.7	1009.2
135°	1027.6	1031.2	1034.8	1038.5	1042.1	1043.9	1044.9	1047.0	1049.0	1051.1	1053.1
137.5°	1072.5	1075.2	1078.0	1080.7	1083.4	1084.8	1085.9	1088.2	1090.5	1092.7	1095.0
140°	1116.5	1118.3	1120.1	1121.9	1123.7	1124.6	1125.9	1128.4	1130.9	1133.4	1135.9
142.5°	1153.2	1154.8	1156.4	1158.0	1159.6	1160.4	1161.9	1164.8	1167.8	1170.7	1173.7
145°	1192.1	1191.9	1191.6	1191.4	1191.1	1191.0	1192.9	1196.8	1200.7	1204.5	1208.4
147.5°	1225.8	1225.1	1224.4	1223.7	1223.0	1222.7	1224.6	1228.5	1232.4	1236.2	1240.1
150°	1258.4	1256.8	1255.2	1253.7	1252.1	1251.3	1253.1	1256.7	1260.4	1264.0	1267.6
152.5°	1286.0	1284.2	1282.4	1280.6	1278.8	1277.9	1279.6	1283.0	1286.4	1289.8	1293.2
155°	1312.6	1310.6	1308.5	1306.5	1304.4	1303.4	1304.8	1307.5	1310.2	1313.0	1315.7
157.5°	1334.0	1332.2	1330.4	1328.6	1326.8	1325.9	1326.9	1329.0	1331.0	1333.1	1335.1
160°	1352.4	1351.0	1349.7	1348.3	1347.0	1346.3	1347.0	1348.3	1349.7	1351.0	1352.4
162.5°	1368.8	1367.4	1366.0	1364.7	1363.3	1362.6	1363.2	1364.3	1365.4	1366.6	1367.7
165°	1383.1	1381.7	1380.3	1379.0	1377.6	1376.9	1377.2	1377.9	1378.6	1379.3	1380.0
167.5°	1394.3	1392.9	1391.6	1390.2	1388.9	1388.2	1388.5	1389.2	1389.9	1390.5	1391.2
170°	1403.5	1402.1	1400.8	1399.4	1398.1	1397.4	1397.6	1398.1	1398.5	1399.0	1399.4
172.5°	1409.6	1408.2	1406.9	1405.5	1404.2	1403.5	1403.7	1404.2	1404.6	1405.1	1405.5
175°	1414.7	1413.1	1411.5	1410.0	1408.4	1407.6	1407.8	1408.3	1408.7	1409.2	1409.6
177.5°	1416.8	1415.2	1413.6	1412.0	1410.4	1409.6	1409.7	1409.9	1410.2	1410.4	1410.6
180°	1411.7	1411.7	1411.7	1411.7	1411.7	1411.7	1411.7	1411.7	1411.7	1411.7	1411.7

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4
2.5°	575.1	575.5	576.4	580.6	582.8	583.2	581.5	585.3	586.6	585.3	584.5
5°	602.3	604.9	610.0	615.5	615.1	615.5	618.1	620.6	621.5	618.1	619.3
7.5°	626.2	631.3	636.8	645.3	645.3	649.5	651.3	653.4	658.5	655.9	655.1
10°	653.4	660.2	670.4	684.0	684.4	688.7	692.9	699.7	701.9	700.2	701.0
12.5°	687.4	700.6	701.4	716.3	723.1	724.0	730.8	729.5	733.8	733.8	741.0
15°	702.3	722.7	734.2	748.7	752.9	747.8	753.3	759.3	759.7	759.7	759.3
17.5°	729.1	737.2	748.7	756.3	758.0	758.0	758.4	761.0	759.3	755.9	758.4
20°	734.6	738.0	742.3	741.4	742.3	738.0	733.8	729.5	729.9	727.8	734.2
22.5°	724.4	723.6	713.8	707.4	707.4	698.9	690.8	687.0	683.2	684.4	686.6
25°	698.9	685.7	673.8	664.4	662.3	648.7	637.6	634.2	627.9	633.0	633.8
27.5°	658.1	643.2	624.0	615.9	604.9	599.4	591.7	581.5	568.3	576.0	574.7
30°	614.2	592.1	576.4	556.8	539.4	538.1	523.6	506.6	499.8	499.8	503.6
32.5°	565.3	536.0	513.0	485.4	468.3	461.1	443.7	426.7	430.5	417.7	422.4
35°	508.3	469.6	440.7	413.9	401.1	392.6	370.1	360.7	350.5	344.6	355.6
37.5°	453.9	409.2	372.2	342.9	338.2	322.9	307.5	301.6	295.6	298.2	297.8
40°	387.5	348.0	314.8	291.8	283.7	276.5	266.3	259.1	255.2	257.4	257.8
42.5°	327.5	294.4	269.7	253.5	246.7	241.6	236.5	230.6	229.3	229.3	231.0
45°	281.2	253.9	237.4	224.2	220.3	216.5	212.7	210.1	209.3	207.6	208.9
47.5°	244.2	222.5	212.3	202.5	198.2	197.4	194.0	192.7	191.0	190.6	191.0
50°	213.1	199.5	190.1	184.6	181.6	180.4	178.7	176.1	175.3	177.4	176.5
52.5°	191.4	178.7	173.6	168.0	166.3	164.6	162.1	162.5	162.1	161.2	161.2
55°	169.7	161.6	156.5	152.3	151.9	150.2	148.0	147.2	146.8	145.9	147.2
57.5°	152.3	145.9	141.2	137.4	135.7	135.7	133.6	131.9	131.9	131.4	131.9
60°	134.8	128.5	125.5	121.7	120.4	120.0	118.7	117.8	116.6	116.6	116.6
62.5°	118.7	113.6	110.2	106.8	107.2	105.1	103.4	102.5	102.5	102.9	102.9
65°	103.4	100.0	95.7	92.7	91.9	91.5	90.6	90.2	88.9	89.8	89.8
67.5°	89.3	84.6	82.1	80.8	79.5	79.1	78.3	77.4	77.0	76.6	77.4
70°	75.3	71.5	69.3	68.5	67.2	66.8	66.4	65.1	65.5	65.9	66.4
72.5°	62.5	59.1	58.7	56.1	56.1	56.1	54.4	55.3	54.9	54.0	54.9
75°	49.3	47.6	46.8	45.5	45.9	45.5	45.1	43.8	43.8	44.2	44.7
77.5°	39.1	37.4	37.0	35.7	34.9	35.7	34.9	34.5	34.5	34.9	34.9
80°	28.9	28.1	26.8	26.8	26.8	26.4	26.4	26.4	25.9	25.5	25.9
82.5°	19.1	19.1	18.7	18.3	18.7	17.9	18.3	18.3	18.3	18.3	18.3
85°	12.3	11.9	11.9	11.5	11.5	11.5	11.9	11.1	11.1	11.5	11.5
87.5°	5.5	5.5	5.5	6.0	5.5	5.5	5.5	6.0	5.5	5.5	5.5
90°	21.5	22.7	23.8	24.9	25.5	25.7	26.2	26.7	27.1	27.6	27.1
92.5°	25.0	25.4	25.9	26.4	26.6	26.7	26.9	27.2	27.4	27.6	27.4
95°	40.9	42.1	43.2	44.3	44.9	44.8	44.6	44.3	44.1	43.9	44.1
97.5°	52.8	53.5	54.2	54.9	55.2	55.3	55.5	55.8	56.0	56.2	56.0
100°	60.0	61.8	63.7	65.5	66.4	66.6	67.1	67.5	68.0	68.4	68.0
102.5°	62.8	65.3	67.8	70.3	71.5	71.8	72.5	73.2	73.9	74.6	73.9
105°	64.8	67.3	69.8	72.3	73.5	74.0	74.9	75.8	76.7	77.6	76.7
107.5°	66.9	69.4	71.9	74.4	75.6	76.1	77.0	77.9	78.8	79.7	78.8
110°	156.1	133.4	110.7	88.0	76.6	77.1	78.0	78.9	79.8	80.7	79.8

TEST NUMBER: P998094

CATALOG NUMBER: SA2XXDIP-B290D1080UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	421.1	323.3	225.4	127.6	78.7	79.0	79.7	80.4	81.0	81.7	81.0
115°	525.1	420.0	314.9	209.8	157.3	149.1	132.8	116.5	100.1	83.8	100.1
117.5°	652.9	620.5	588.0	555.5	539.3	509.6	450.1	390.6	331.2	271.7	331.2
120°	751.4	754.2	756.9	759.6	761.0	745.7	715.0	684.4	653.7	623.1	653.7
122.5°	810.4	811.7	813.1	814.4	815.1	815.2	815.5	815.7	816.0	816.2	816.0
125°	864.7	866.3	867.9	869.5	870.3	870.6	871.3	872.0	872.7	873.4	872.7
127.5°	915.5	917.7	920.0	922.3	923.4	923.5	923.7	924.0	924.2	924.4	924.2
130°	963.7	966.2	968.7	971.2	972.4	972.3	972.1	971.8	971.6	971.4	971.6
132.5°	1011.2	1013.3	1015.3	1017.4	1018.4	1018.3	1018.1	1017.8	1017.6	1017.4	1017.6
135°	1055.4	1057.6	1059.9	1062.2	1063.3	1063.1	1062.6	1062.2	1061.7	1061.3	1061.7
137.5°	1097.3	1099.5	1101.8	1104.1	1105.2	1104.9	1104.2	1103.5	1102.9	1102.2	1102.9
140°	1137.9	1140.0	1142.0	1144.1	1145.1	1144.5	1143.4	1142.3	1141.1	1140.0	1141.1
142.5°	1175.5	1177.3	1179.1	1180.9	1181.8	1181.2	1180.1	1179.0	1177.8	1176.7	1177.8
145°	1210.0	1211.6	1213.1	1214.7	1215.5	1214.9	1213.8	1212.7	1211.5	1210.4	1211.5
147.5°	1241.2	1242.4	1243.5	1244.6	1245.2	1244.7	1243.8	1242.9	1242.0	1241.1	1242.0
150°	1269.0	1270.4	1271.7	1273.1	1273.8	1273.2	1272.1	1271.0	1269.8	1268.7	1269.8
152.5°	1294.6	1295.9	1297.3	1298.6	1299.3	1298.5	1296.9	1295.4	1293.8	1292.2	1293.8
155°	1317.1	1318.4	1319.8	1321.1	1321.8	1320.9	1319.1	1317.2	1315.4	1313.6	1315.4
157.5°	1336.7	1338.3	1339.8	1341.4	1342.2	1341.3	1339.5	1337.6	1335.8	1334.0	1335.8
160°	1353.8	1355.2	1356.5	1357.9	1358.6	1357.8	1356.2	1354.6	1353.0	1351.4	1353.0
162.5°	1369.3	1370.9	1372.5	1374.1	1374.9	1373.9	1371.8	1369.8	1367.7	1365.7	1367.7
165°	1381.6	1383.2	1384.8	1386.4	1387.2	1386.4	1384.8	1383.2	1381.6	1380.0	1381.6
167.5°	1392.8	1394.4	1396.0	1397.6	1398.4	1397.4	1395.3	1393.3	1391.2	1389.2	1391.2
170°	1401.0	1402.6	1404.2	1405.8	1406.6	1405.6	1403.5	1401.5	1399.4	1397.4	1399.4
172.5°	1407.1	1408.7	1410.3	1411.9	1412.7	1411.7	1409.6	1407.6	1405.5	1403.5	1405.5
175°	1411.2	1412.8	1414.4	1416.0	1416.8	1415.7	1413.4	1411.1	1408.9	1406.6	1408.9
177.5°	1412.2	1413.8	1415.4	1417.0	1417.8	1416.8	1414.7	1412.7	1410.6	1408.6	1410.6
180°	1411.7	1411.7	1411.7	1411.7	1411.7	1411.7	1411.7	1411.7	1411.7	1411.7	1411.7

TEST NUMBER: P998094

CATALOG NUMBER: SA2XXDIP-B290D1080UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4
2.5°	586.6	583.6	581.1	581.5	583.6	581.9	577.7	572.1	570.0	567.5	570.0
5°	621.9	619.3	614.2	614.7	613.4	611.7	604.9	596.4	596.4	589.6	588.7
7.5°	656.8	653.0	649.5	648.7	644.0	640.6	634.7	622.8	618.1	610.0	605.3
10°	695.9	692.9	689.1	684.4	681.9	675.9	666.1	648.7	640.2	629.1	621.0
12.5°	735.5	735.0	726.5	717.2	716.8	707.4	700.6	677.2	665.7	650.8	631.7
15°	760.6	758.4	753.8	749.1	750.4	740.2	724.8	697.2	689.5	671.7	651.3
17.5°	760.1	760.1	758.9	758.0	756.7	753.8	745.3	727.0	714.6	692.1	672.9
20°	735.9	741.4	742.7	742.3	746.5	748.7	748.2	736.8	727.0	707.0	687.4
22.5°	687.4	700.2	705.7	709.1	718.0	722.7	733.8	729.5	727.0	712.1	695.5
25°	642.3	646.6	663.2	664.0	676.3	687.8	698.9	706.1	715.5	710.0	695.9
27.5°	584.0	593.8	605.7	614.7	617.2	640.6	658.9	672.5	693.8	695.5	690.8
30°	518.1	522.8	542.4	554.3	567.9	584.9	611.3	634.7	653.8	671.2	677.2
32.5°	437.7	456.9	468.3	482.8	494.7	524.9	557.2	587.4	609.6	638.9	651.7
35°	364.1	379.0	398.6	404.5	426.2	451.7	493.9	532.6	566.2	596.0	621.9
37.5°	303.3	315.2	336.0	345.4	358.2	390.9	426.2	474.3	514.7	551.3	583.6
40°	261.6	270.5	286.3	289.3	299.9	329.7	358.2	403.3	456.9	506.2	541.5
42.5°	233.1	237.4	248.0	251.8	258.6	278.6	304.1	346.7	396.5	447.5	497.3
45°	212.7	215.7	222.0	225.4	234.0	242.9	263.7	297.8	336.9	388.4	442.0
47.5°	194.4	198.2	200.8	202.9	207.6	217.4	231.0	256.1	293.5	340.7	392.6
50°	179.1	180.4	185.0	185.5	188.4	194.8	207.6	222.9	252.7	291.0	341.2
52.5°	163.8	165.0	168.0	171.0	172.3	177.4	185.9	198.7	220.8	251.0	295.6
55°	148.5	150.2	153.1	155.3	156.5	160.8	165.9	178.2	195.7	216.9	253.5
57.5°	133.1	137.0	137.8	139.1	141.2	145.9	150.6	157.8	171.4	191.0	217.8
60°	118.7	120.0	122.9	124.2	126.3	128.9	134.8	140.4	150.2	165.5	189.7
62.5°	103.8	106.8	108.0	109.3	111.0	114.0	117.8	123.8	132.3	144.6	163.8
65°	91.0	91.5	94.0	95.7	97.4	99.5	103.4	108.9	114.0	125.5	139.5
67.5°	78.7	79.5	80.4	82.1	84.2	86.4	89.8	92.7	99.1	106.8	117.8
70°	66.8	66.8	68.9	70.2	69.8	72.3	74.9	78.3	82.9	90.2	99.1
72.5°	56.1	55.7	57.4	57.9	58.7	60.4	62.1	65.5	68.1	73.6	80.4
75°	44.7	45.5	46.4	46.4	47.6	48.9	50.6	52.3	55.3	58.7	63.8
77.5°	35.3	35.3	36.2	36.6	37.9	37.4	39.1	40.8	43.0	45.9	49.8
80°	25.9	26.8	26.8	26.8	27.2	27.6	29.4	30.6	31.9	34.0	35.7
82.5°	18.3	18.3	19.1	19.1	19.1	20.0	20.0	20.4	21.3	22.5	23.8
85°	11.5	11.5	11.5	11.9	11.5	11.9	12.8	12.3	12.8	13.6	13.6
87.5°	5.5	5.5	5.5	5.5	5.5	6.0	5.5	6.0	6.4	6.4	6.4
90°	26.7	26.2	25.7	25.5	24.9	23.8	22.7	21.5	20.4	18.6	16.8
92.5°	27.2	26.9	26.7	26.6	26.4	25.9	25.4	25.0	24.5	23.8	23.2
95°	44.3	44.6	44.8	44.9	44.3	43.2	42.1	40.9	39.8	38.2	36.6
97.5°	55.8	55.5	55.3	55.2	54.9	54.2	53.5	52.8	52.1	48.5	44.9
100°	67.5	67.1	66.6	66.4	65.5	63.7	61.8	60.0	58.2	54.4	50.5
102.5°	73.2	72.5	71.8	71.5	70.3	67.8	65.3	62.8	60.3	101.6	142.9
105°	75.8	74.9	74.0	73.5	72.3	69.8	67.3	64.8	62.3	124.3	186.3
107.5°	77.9	77.0	76.1	75.6	74.4	71.9	69.4	66.9	64.4	140.9	217.4
110°	78.9	78.0	77.1	76.6	88.0	110.7	133.4	156.1	178.8	244.4	310.0

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CATALOG NUMBER: SA2XXDIP-B290D1080UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	80.4	79.7	79.0	78.7	127.6	225.4	323.3	421.1	518.9	522.8	526.6
115°	116.5	132.8	149.1	157.3	209.8	314.9	420.0	525.1	630.2	624.5	618.9
117.5°	390.6	450.1	509.6	539.3	555.5	588.0	620.5	652.9	685.4	681.5	677.7
120°	684.4	715.0	745.7	761.0	759.6	756.9	754.2	751.4	748.7	744.6	740.5
122.5°	815.7	815.5	815.2	815.1	814.4	813.1	811.7	810.4	809.0	804.5	799.9
125°	872.0	871.3	870.6	870.3	869.5	867.9	866.3	864.7	863.1	858.8	854.5
127.5°	924.0	923.7	923.5	923.4	922.3	920.0	917.7	915.5	913.2	909.8	906.4
130°	971.8	972.1	972.3	972.4	971.2	968.7	966.2	963.7	961.2	958.7	956.2
132.5°	1017.8	1018.1	1018.3	1018.4	1017.4	1015.3	1013.3	1011.2	1009.2	1006.7	1004.2
135°	1062.2	1062.6	1063.1	1063.3	1062.2	1059.9	1057.6	1055.4	1053.1	1051.1	1049.0
137.5°	1103.5	1104.2	1104.9	1105.2	1104.1	1101.8	1099.5	1097.3	1095.0	1092.7	1090.5
140°	1142.3	1143.4	1144.5	1145.1	1144.1	1142.0	1140.0	1137.9	1135.9	1133.4	1130.9
142.5°	1179.0	1180.1	1181.2	1181.8	1180.9	1179.1	1177.3	1175.5	1173.7	1170.7	1167.8
145°	1212.7	1213.8	1214.9	1215.5	1214.7	1213.1	1211.6	1210.0	1208.4	1204.5	1200.7
147.5°	1242.9	1243.8	1244.7	1245.2	1244.6	1243.5	1242.4	1241.2	1240.1	1236.2	1232.4
150°	1271.0	1272.1	1273.2	1273.8	1273.1	1271.7	1270.4	1269.0	1267.6	1264.0	1260.4
152.5°	1295.4	1296.9	1298.5	1299.3	1298.6	1297.3	1295.9	1294.6	1293.2	1289.8	1286.4
155°	1317.2	1319.1	1320.9	1321.8	1321.1	1319.8	1318.4	1317.1	1315.7	1313.0	1310.2
157.5°	1337.6	1339.5	1341.3	1342.2	1341.4	1339.8	1338.3	1336.7	1335.1	1333.1	1331.0
160°	1354.6	1356.2	1357.8	1358.6	1357.9	1356.5	1355.2	1353.8	1352.4	1351.0	1349.7
162.5°	1369.8	1371.8	1373.9	1374.9	1374.1	1372.5	1370.9	1369.3	1367.7	1366.6	1365.4
165°	1383.2	1384.8	1386.4	1387.2	1386.4	1384.8	1383.2	1381.6	1380.0	1379.3	1378.6
167.5°	1393.3	1395.3	1397.4	1398.4	1397.6	1396.0	1394.4	1392.8	1391.2	1390.5	1389.9
170°	1401.5	1403.5	1405.6	1406.6	1405.8	1404.2	1402.6	1401.0	1399.4	1399.0	1398.5
172.5°	1407.6	1409.6	1411.7	1412.7	1411.9	1410.3	1408.7	1407.1	1405.5	1405.1	1404.6
175°	1411.1	1413.4	1415.7	1416.8	1416.0	1414.4	1412.8	1411.2	1409.6	1409.2	1408.7
177.5°	1412.7	1414.7	1416.8	1417.8	1417.0	1415.4	1413.8	1412.2	1410.6	1410.4	1410.2
180°	1411.7	1411.7	1411.7	1411.7	1411.7	1411.7	1411.7	1411.7	1411.7	1411.7	1411.7

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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4
2.5°	567.9	565.7	564.5	565.3	562.8	556.4	556.4	558.5	556.0	553.4	549.6
5°	583.6	579.4	576.8	576.4	570.4	560.2	558.1	556.0	550.4	544.5	538.1
7.5°	598.9	591.3	587.0	584.0	575.5	562.3	556.8	552.1	543.2	534.3	526.2
10°	611.7	600.6	595.5	590.8	579.8	563.2	554.3	545.8	534.3	522.8	512.6
12.5°	621.9	609.1	602.8	596.0	582.3	560.6	549.6	536.0	524.5	509.2	499.0
15°	638.9	612.5	606.6	600.2	586.2	556.4	542.8	527.5	511.7	491.3	480.2
17.5°	652.5	617.2	616.8	603.2	584.9	554.7	533.8	513.9	496.8	476.4	459.0
20°	660.6	624.5	617.6	603.6	580.6	543.2	521.5	499.4	481.1	456.4	439.0
22.5°	667.4	634.7	616.8	599.8	571.7	539.4	507.5	486.6	461.5	434.7	418.1
25°	670.0	636.8	618.1	598.5	565.3	528.3	492.2	469.6	441.5	417.3	394.7
27.5°	670.4	636.4	613.4	593.0	556.4	513.9	476.8	453.0	422.0	393.9	371.4
30°	666.1	631.7	610.8	588.7	547.9	500.7	458.1	431.8	398.6	370.5	347.1
32.5°	653.4	622.3	605.3	581.1	536.8	482.4	440.3	410.9	376.0	348.4	325.8
35°	632.1	610.8	592.1	569.6	522.4	465.4	422.4	387.9	352.6	326.3	305.0
37.5°	605.7	594.3	576.8	554.7	505.8	450.0	402.4	364.1	328.8	303.3	282.4
40°	570.0	573.0	556.0	536.0	486.2	429.2	376.5	339.9	306.7	282.9	262.5
42.5°	531.3	543.6	533.8	514.7	464.5	406.2	357.3	316.9	284.6	259.9	242.9
45°	489.6	510.9	504.9	490.9	442.0	382.0	330.1	291.0	262.5	238.6	223.7
47.5°	444.1	474.3	474.3	464.1	416.9	357.7	306.7	266.7	238.6	221.6	207.2
50°	397.7	431.8	437.3	430.5	388.8	330.1	278.2	242.0	217.8	201.2	190.6
52.5°	349.2	388.8	399.0	395.6	359.0	303.7	254.8	219.5	197.4	182.9	173.6
55°	302.9	348.8	359.9	361.1	327.1	274.8	228.9	197.8	176.5	166.7	158.7
57.5°	259.1	303.3	315.6	317.8	294.8	248.4	204.6	177.4	158.2	150.2	143.8
60°	221.6	258.6	274.8	279.5	259.5	217.8	182.1	155.7	141.2	133.6	127.6
62.5°	191.0	220.8	237.8	239.1	230.1	191.0	158.7	136.5	124.2	117.4	114.4
65°	161.2	188.0	198.2	203.3	196.1	165.5	137.0	118.7	108.9	102.9	100.0
67.5°	137.4	154.4	162.9	169.7	162.5	139.5	116.6	101.7	94.4	88.5	86.8
70°	112.7	126.8	133.1	139.9	133.6	116.1	99.5	85.9	79.5	74.9	72.7
72.5°	90.2	101.2	107.2	111.4	107.6	93.2	79.5	70.2	65.5	62.1	60.8
75°	71.5	79.1	82.5	85.5	83.8	72.7	64.2	56.6	52.3	49.3	48.5
77.5°	54.4	60.0	63.8	64.7	62.5	55.3	48.1	43.4	40.0	38.3	37.4
80°	38.7	42.1	44.2	45.5	43.4	40.4	35.3	31.9	28.9	26.8	26.4
82.5°	25.9	27.6	29.4	28.9	28.1	25.5	22.5	20.8	19.6	17.9	17.9
85°	14.9	15.3	16.2	16.6	16.2	14.5	12.8	11.9	11.1	9.8	9.8
87.5°	6.4	6.8	6.8	7.2	6.4	6.4	5.5	4.7	4.7	4.3	3.8
90°	15.0	13.2	12.3	11.0	8.5	6.0	3.5	1.0	3.5	6.0	8.5
92.5°	22.5	21.8	21.5	21.9	22.8	23.7	24.6	25.5	24.6	23.7	22.8
95°	35.1	33.5	32.7	36.4	43.9	51.4	58.9	66.4	58.9	51.4	43.9
97.5°	41.2	37.6	35.8	45.1	63.7	82.3	100.9	119.5	100.9	82.3	63.7
100°	46.7	42.8	40.9	56.4	87.5	118.6	149.7	180.8	149.7	118.6	87.5
102.5°	184.2	225.5	246.2	246.4	246.9	247.3	247.8	248.2	247.8	247.3	246.9
105°	248.2	310.2	341.2	337.8	331.0	324.1	317.3	310.5	317.3	324.1	331.0
107.5°	293.9	370.4	408.6	405.8	400.1	394.4	388.8	383.1	388.8	394.4	400.1
110°	375.6	441.2	474.0	471.6	466.8	462.1	457.3	452.5	457.3	462.1	466.8

TEST NUMBER: P998094

CATALOG NUMBER: SA2XXDIP-B290D1080UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	530.5	534.4	536.3	534.3	530.2	526.1	522.0	517.9	522.0	526.1	530.2
115°	613.2	607.5	604.7	602.8	598.9	595.0	591.2	587.3	591.2	595.0	598.9
117.5°	673.8	669.9	668.0	665.7	661.2	656.7	652.1	647.6	652.1	656.7	661.2
120°	736.4	732.3	730.3	728.6	725.2	721.8	718.4	715.0	718.4	721.8	725.2
122.5°	795.4	790.9	788.6	786.8	783.1	779.5	775.8	772.2	775.8	779.5	783.1
125°	850.2	845.9	843.7	842.2	839.3	836.4	833.4	830.5	833.4	836.4	839.3
127.5°	903.0	899.6	897.9	896.3	893.1	890.0	886.8	883.6	886.8	890.0	893.1
130°	953.7	951.2	950.0	948.2	944.5	940.9	937.2	933.6	937.2	940.9	944.5
132.5°	1001.7	999.2	998.0	996.5	993.6	990.6	987.7	984.7	987.7	990.6	993.6
135°	1047.0	1044.9	1043.9	1042.1	1038.5	1034.8	1031.2	1027.6	1031.2	1034.8	1038.5
137.5°	1088.2	1085.9	1084.8	1083.4	1080.7	1078.0	1075.2	1072.5	1075.2	1078.0	1080.7
140°	1128.4	1125.9	1124.6	1123.7	1121.9	1120.1	1118.3	1116.5	1118.3	1120.1	1121.9
142.5°	1164.8	1161.9	1160.4	1159.6	1158.0	1156.4	1154.8	1153.2	1154.8	1156.4	1158.0
145°	1196.8	1192.9	1191.0	1191.1	1191.4	1191.6	1191.9	1192.1	1191.9	1191.6	1191.4
147.5°	1228.5	1224.6	1222.7	1223.0	1223.7	1224.4	1225.1	1225.8	1225.1	1224.4	1223.7
150°	1256.7	1253.1	1251.3	1252.1	1253.7	1255.2	1256.8	1258.4	1256.8	1255.2	1253.7
152.5°	1283.0	1279.6	1277.9	1278.8	1280.6	1282.4	1284.2	1286.0	1284.2	1282.4	1280.6
155°	1307.5	1304.8	1303.4	1304.4	1306.5	1308.5	1310.6	1312.6	1310.6	1308.5	1306.5
157.5°	1329.0	1326.9	1325.9	1326.8	1328.6	1330.4	1332.2	1334.0	1332.2	1330.4	1328.6
160°	1348.3	1347.0	1346.3	1347.0	1348.3	1349.7	1351.0	1352.4	1351.0	1349.7	1348.3
162.5°	1364.3	1363.2	1362.6	1363.3	1364.7	1366.0	1367.4	1368.8	1367.4	1366.0	1364.7
165°	1377.9	1377.2	1376.9	1377.6	1379.0	1380.3	1381.7	1383.1	1381.7	1380.3	1379.0
167.5°	1389.2	1388.5	1388.2	1388.9	1390.2	1391.6	1392.9	1394.3	1392.9	1391.6	1390.2
170°	1398.1	1397.6	1397.4	1398.1	1399.4	1400.8	1402.1	1403.5	1402.1	1400.8	1399.4
172.5°	1404.2	1403.7	1403.5	1404.2	1405.5	1406.9	1408.2	1409.6	1408.2	1406.9	1405.5
175°	1408.3	1407.8	1407.6	1408.4	1410.0	1411.5	1413.1	1414.7	1413.1	1411.5	1410.0
177.5°	1409.9	1409.7	1409.6	1410.4	1412.0	1413.6	1415.2	1416.8	1415.2	1413.6	1412.0
180°	1411.7	1411.7	1411.7	1411.7	1411.7	1411.7	1411.7	1411.7	1411.7	1411.7	1411.7

TEST NUMBER: P998094

CATALOG NUMBER: SA2XXDIP-B290D1080UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4
2.5°	547.5	549.6	549.2	544.9	540.2	536.4	529.2	530.0	527.5	527.9	530.4
5°	533.8	533.8	532.1	526.2	518.5	514.3	506.2	504.1	499.0	498.5	498.1
7.5°	519.4	517.3	515.1	506.6	497.3	490.5	479.4	476.8	471.7	468.3	466.6
10°	502.4	499.4	495.1	485.4	473.9	465.4	453.9	450.5	440.7	436.4	433.9
12.5°	483.7	482.0	475.1	467.1	448.3	439.0	422.4	425.8	416.0	407.5	406.2
15°	464.9	458.6	454.7	441.5	419.0	414.7	401.6	394.7	385.8	379.0	379.0
17.5°	446.6	436.9	428.4	414.3	397.7	385.8	376.0	372.6	361.6	354.8	353.5
20°	422.4	411.3	409.2	389.2	377.7	364.5	355.2	346.7	338.6	335.6	333.5
22.5°	399.4	386.7	383.3	366.2	354.8	341.6	332.2	326.3	320.3	318.2	314.4
25°	374.8	367.1	362.0	343.7	330.9	318.6	312.2	308.0	302.4	302.0	299.5
27.5°	350.9	343.7	338.6	321.2	311.8	300.3	295.2	290.5	287.6	286.3	285.0
30°	330.5	322.4	316.5	303.7	292.2	282.9	278.6	275.6	273.9	271.8	271.4
32.5°	308.0	303.3	295.2	285.4	276.5	267.6	265.0	262.9	260.3	259.5	259.1
35°	288.8	282.4	277.3	266.3	262.5	254.8	251.8	250.1	246.7	245.9	245.0
37.5°	270.1	264.2	258.6	251.8	244.6	240.3	238.6	236.1	234.4	234.8	234.0
40°	251.4	246.7	242.5	235.2	231.0	228.9	225.4	222.9	222.0	222.5	222.0
42.5°	233.1	228.9	226.3	220.8	216.5	214.4	212.3	209.7	211.0	211.0	212.3
45°	216.5	212.7	211.0	206.7	204.2	200.8	198.7	198.2	199.9	199.5	199.5
47.5°	199.5	198.2	196.1	192.3	188.9	186.7	186.3	186.3	188.0	188.9	188.4
50°	186.3	183.8	181.2	178.2	175.7	174.8	173.6	174.4	176.1	176.1	177.0
52.5°	169.7	168.0	167.2	164.6	162.9	162.9	162.9	163.3	164.6	165.9	165.5
55°	155.3	154.0	153.1	151.9	149.7	150.2	149.7	150.6	151.9	153.1	154.0
57.5°	139.9	139.5	138.7	136.5	136.5	136.1	137.4	137.8	139.9	140.8	142.1
60°	126.3	125.1	125.1	123.4	123.4	123.4	124.6	125.9	127.6	128.0	128.9
62.5°	111.9	111.9	111.4	110.2	110.2	111.4	111.9	113.6	114.4	114.4	115.7
65°	98.3	97.8	97.4	97.8	98.3	98.3	99.5	100.4	101.2	101.7	102.1
67.5°	84.6	84.2	85.1	84.6	85.5	87.2	86.8	88.1	89.3	89.3	89.8
70°	71.9	72.7	72.3	73.2	72.7	73.6	74.9	75.3	75.3	75.7	77.0
72.5°	60.0	60.0	60.0	59.6	60.0	60.8	61.7	62.1	63.0	63.4	64.7
75°	48.5	48.5	47.6	48.5	48.5	49.3	50.2	50.2	50.2	51.0	52.3
77.5°	36.6	37.0	36.6	37.4	37.4	37.9	38.7	38.3	39.1	39.6	40.0
80°	26.8	26.4	26.4	26.4	26.8	26.8	27.6	28.1	28.1	29.4	28.5
82.5°	17.0	17.4	17.0	17.4	17.4	17.9	17.4	17.9	18.3	19.1	18.7
85°	9.8	9.4	9.4	9.8	9.4	9.4	9.8	9.4	9.8	9.4	9.8
87.5°	3.8	3.4	3.4	3.4	3.4	3.0	3.0	2.6	2.6	2.6	2.1
90°	11.0	12.3	13.2	15.0	16.8	18.6	20.4	21.5	22.7	23.8	24.9
92.5°	21.9	21.5	21.8	22.5	23.2	23.8	24.5	25.0	25.4	25.9	26.4
95°	36.4	32.7	33.5	35.1	36.6	38.2	39.8	40.9	42.1	43.2	44.3
97.5°	45.1	35.8	37.6	41.2	44.9	48.5	52.1	52.8	53.5	54.2	54.9
100°	56.4	40.9	42.8	46.7	50.5	54.4	58.2	60.0	61.8	63.7	65.5
102.5°	246.4	246.2	225.5	184.2	142.9	101.6	60.3	62.8	65.3	67.8	70.3
105°	337.8	341.2	310.2	248.2	186.3	124.3	62.3	64.8	67.3	69.8	72.3
107.5°	405.8	408.6	370.4	293.9	217.4	140.9	64.4	66.9	69.4	71.9	74.4
110°	471.6	474.0	441.2	375.6	310.0	244.4	178.8	156.1	133.4	110.7	88.0

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CATALOG NUMBER: SA2XXDIP-B290D1080UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	534.3	536.3	534.4	530.5	526.6	522.8	518.9	421.1	323.3	225.4	127.6
115°	602.8	604.7	607.5	613.2	618.9	624.5	630.2	525.1	420.0	314.9	209.8
117.5°	665.7	668.0	669.9	673.8	677.7	681.5	685.4	652.9	620.5	588.0	555.5
120°	728.6	730.3	732.3	736.4	740.5	744.6	748.7	751.4	754.2	756.9	759.6
122.5°	786.8	788.6	790.9	795.4	799.9	804.5	809.0	810.4	811.7	813.1	814.4
125°	842.2	843.7	845.9	850.2	854.5	858.8	863.1	864.7	866.3	867.9	869.5
127.5°	896.3	897.9	899.6	903.0	906.4	909.8	913.2	915.5	917.7	920.0	922.3
130°	948.2	950.0	951.2	953.7	956.2	958.7	961.2	963.7	966.2	968.7	971.2
132.5°	996.5	998.0	999.2	1001.7	1004.2	1006.7	1009.2	1011.2	1013.3	1015.3	1017.4
135°	1042.1	1043.9	1044.9	1047.0	1049.0	1051.1	1053.1	1055.4	1057.6	1059.9	1062.2
137.5°	1083.4	1084.8	1085.9	1088.2	1090.5	1092.7	1095.0	1097.3	1099.5	1101.8	1104.1
140°	1123.7	1124.6	1125.9	1128.4	1130.9	1133.4	1135.9	1137.9	1140.0	1142.0	1144.1
142.5°	1159.6	1160.4	1161.9	1164.8	1167.8	1170.7	1173.7	1175.5	1177.3	1179.1	1180.9
145°	1191.1	1191.0	1192.9	1196.8	1200.7	1204.5	1208.4	1210.0	1211.6	1213.1	1214.7
147.5°	1223.0	1222.7	1224.6	1228.5	1232.4	1236.2	1240.1	1241.2	1242.4	1243.5	1244.6
150°	1252.1	1251.3	1253.1	1256.7	1260.4	1264.0	1267.6	1269.0	1270.4	1271.7	1273.1
152.5°	1278.8	1277.9	1279.6	1283.0	1286.4	1289.8	1293.2	1294.6	1295.9	1297.3	1298.6
155°	1304.4	1303.4	1304.8	1307.5	1310.2	1313.0	1315.7	1317.1	1318.4	1319.8	1321.1
157.5°	1326.8	1325.9	1326.9	1329.0	1331.0	1333.1	1335.1	1336.7	1338.3	1339.8	1341.4
160°	1347.0	1346.3	1347.0	1348.3	1349.7	1351.0	1352.4	1353.8	1355.2	1356.5	1357.9
162.5°	1363.3	1362.6	1363.2	1364.3	1365.4	1366.6	1367.7	1369.3	1370.9	1372.5	1374.1
165°	1377.6	1376.9	1377.2	1377.9	1378.6	1379.3	1380.0	1381.6	1383.2	1384.8	1386.4
167.5°	1388.9	1388.2	1388.5	1389.2	1389.9	1390.5	1391.2	1392.8	1394.4	1396.0	1397.6
170°	1398.1	1397.4	1397.6	1398.1	1398.5	1399.0	1399.4	1401.0	1402.6	1404.2	1405.8
172.5°	1404.2	1403.5	1403.7	1404.2	1404.6	1405.1	1405.5	1407.1	1408.7	1410.3	1411.9
175°	1408.4	1407.6	1407.8	1408.3	1408.7	1409.2	1409.6	1411.2	1412.8	1414.4	1416.0
177.5°	1410.4	1409.6	1409.7	1409.9	1410.2	1410.4	1410.6	1412.2	1413.8	1415.4	1417.0
180°	1411.7	1411.7	1411.7	1411.7	1411.7	1411.7	1411.7	1411.7	1411.7	1411.7	1411.7

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4
2.5°	527.5	528.7	525.8	524.9	525.8	522.8	523.6	524.5	524.5	525.8	526.6
5°	496.8	495.1	492.2	491.3	490.5	491.7	490.9	492.2	492.6	495.6	496.0
7.5°	466.6	464.1	461.5	459.0	458.1	456.0	458.1	458.1	461.1	460.3	462.4
10°	430.9	430.5	427.1	425.8	424.1	420.7	425.4	424.1	426.2	430.1	430.9
12.5°	404.5	399.9	402.0	396.0	398.2	394.7	395.2	395.2	398.6	399.0	398.2
15°	379.4	375.6	370.1	367.5	366.2	364.5	370.1	370.5	368.0	373.9	371.8
17.5°	353.9	353.9	348.8	347.5	344.1	345.8	345.0	345.4	344.6	348.8	350.9
20°	331.8	329.7	328.0	328.4	324.1	323.3	322.4	323.3	326.3	329.2	330.1
22.5°	313.9	312.7	308.4	309.2	305.8	307.1	306.3	308.4	308.8	308.8	311.8
25°	296.9	295.2	295.6	293.9	292.7	292.7	291.4	292.7	294.4	295.2	295.6
27.5°	284.2	282.9	280.7	279.5	280.3	278.2	279.9	281.2	281.2	280.3	281.2
30°	268.8	269.7	269.7	265.4	267.1	266.3	267.6	268.4	268.4	268.8	268.0
32.5°	258.6	256.1	255.7	255.2	255.2	253.5	253.5	254.8	255.2	255.7	256.9
35°	245.0	245.0	242.9	244.2	242.5	242.9	242.5	242.9	243.7	242.5	243.7
37.5°	232.7	233.1	232.3	233.1	233.5	232.7	231.8	233.5	232.7	232.7	231.8
40°	222.0	221.6	222.0	222.0	222.0	222.5	221.6	221.6	221.6	220.8	219.9
42.5°	213.1	210.6	211.4	211.8	210.6	210.6	211.0	210.6	211.8	209.3	209.3
45°	200.4	199.5	199.9	199.9	200.8	199.5	200.4	200.8	199.5	199.1	198.2
47.5°	188.9	189.7	188.9	189.7	189.7	190.6	188.9	189.3	189.7	188.0	186.7
50°	177.4	177.4	178.7	178.2	178.7	177.8	177.8	177.4	177.8	177.0	175.7
52.5°	166.7	165.5	167.6	167.2	166.7	166.3	165.9	166.3	165.5	164.6	164.6
55°	153.6	153.6	154.8	155.3	155.3	154.4	153.6	154.0	153.6	153.1	152.7
57.5°	142.9	141.2	142.1	142.5	142.5	141.2	142.1	141.2	141.2	141.7	140.4
60°	129.3	129.3	128.5	129.7	129.7	128.9	128.9	129.3	128.5	128.0	127.6
62.5°	114.9	115.3	116.6	117.0	117.4	116.6	115.7	116.1	116.1	114.9	115.3
65°	102.5	103.4	105.1	104.6	103.8	104.2	103.4	103.8	102.5	102.9	101.7
67.5°	90.6	90.2	90.6	90.6	91.5	91.0	90.2	90.2	89.8	91.0	89.8
70°	77.8	77.8	77.8	77.8	78.3	78.7	77.8	77.0	77.4	76.6	76.1
72.5°	64.7	65.1	64.7	65.5	64.2	65.1	65.1	64.7	64.2	64.2	64.2
75°	52.3	53.2	51.9	52.3	51.9	52.7	52.3	52.3	51.5	51.0	51.5
77.5°	40.0	40.4	39.6	40.0	39.6	40.0	40.0	39.6	39.6	39.6	39.6
80°	28.5	28.9	28.5	28.1	27.6	28.5	27.6	28.1	28.5	28.1	28.9
82.5°	18.3	18.3	17.9	18.3	17.4	17.4	17.9	17.9	17.4	18.3	17.4
85°	8.9	8.9	9.8	8.9	8.5	8.5	8.5	8.9	8.5	9.4	8.9
87.5°	2.1	1.7	2.1	2.1	1.7	1.7	2.1	1.7	2.1	2.6	1.7
90°	25.5	25.7	26.2	26.7	27.1	27.6	27.1	26.7	26.2	25.7	25.5
92.5°	26.6	26.7	26.9	27.2	27.4	27.6	27.4	27.2	26.9	26.7	26.6
95°	44.9	44.8	44.6	44.3	44.1	43.9	44.1	44.3	44.6	44.8	44.9
97.5°	55.2	55.3	55.5	55.8	56.0	56.2	56.0	55.8	55.5	55.3	55.2
100°	66.4	66.6	67.1	67.5	68.0	68.4	68.0	67.5	67.1	66.6	66.4
102.5°	71.5	71.8	72.5	73.2	73.9	74.6	73.9	73.2	72.5	71.8	71.5
105°	73.5	74.0	74.9	75.8	76.7	77.6	76.7	75.8	74.9	74.0	73.5
107.5°	75.6	76.1	77.0	77.9	78.8	79.7	78.8	77.9	77.0	76.1	75.6
110°	76.6	77.1	78.0	78.9	79.8	80.7	79.8	78.9	78.0	77.1	76.6

TEST NUMBER: P998094

CATALOG NUMBER: SA2XXDIP-B290D1080UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	78.7	79.0	79.7	80.4	81.0	81.7	81.0	80.4	79.7	79.0	78.7
115°	157.3	149.1	132.8	116.5	100.1	83.8	100.1	116.5	132.8	149.1	157.3
117.5°	539.3	509.6	450.1	390.6	331.2	271.7	331.2	390.6	450.1	509.6	539.3
120°	761.0	745.7	715.0	684.4	653.7	623.1	653.7	684.4	715.0	745.7	761.0
122.5°	815.1	815.2	815.5	815.7	816.0	816.2	816.0	815.7	815.5	815.2	815.1
125°	870.3	870.6	871.3	872.0	872.7	873.4	872.7	872.0	871.3	870.6	870.3
127.5°	923.4	923.5	923.7	924.0	924.2	924.4	924.2	924.0	923.7	923.5	923.4
130°	972.4	972.3	972.1	971.8	971.6	971.4	971.6	971.8	972.1	972.3	972.4
132.5°	1018.4	1018.3	1018.1	1017.8	1017.6	1017.4	1017.6	1017.8	1018.1	1018.3	1018.4
135°	1063.3	1063.1	1062.6	1062.2	1061.7	1061.3	1061.7	1062.2	1062.6	1063.1	1063.3
137.5°	1105.2	1104.9	1104.2	1103.5	1102.9	1102.2	1102.9	1103.5	1104.2	1104.9	1105.2
140°	1145.1	1144.5	1143.4	1142.3	1141.1	1140.0	1141.1	1142.3	1143.4	1144.5	1145.1
142.5°	1181.8	1181.2	1180.1	1179.0	1177.8	1176.7	1177.8	1179.0	1180.1	1181.2	1181.8
145°	1215.5	1214.9	1213.8	1212.7	1211.5	1210.4	1211.5	1212.7	1213.8	1214.9	1215.5
147.5°	1245.2	1244.7	1243.8	1242.9	1242.0	1241.1	1242.0	1242.9	1243.8	1244.7	1245.2
150°	1273.8	1273.2	1272.1	1271.0	1269.8	1268.7	1269.8	1271.0	1272.1	1273.2	1273.8
152.5°	1299.3	1298.5	1296.9	1295.4	1293.8	1292.2	1293.8	1295.4	1296.9	1298.5	1299.3
155°	1321.8	1320.9	1319.1	1317.2	1315.4	1313.6	1315.4	1317.2	1319.1	1320.9	1321.8
157.5°	1342.2	1341.3	1339.5	1337.6	1335.8	1334.0	1335.8	1337.6	1339.5	1341.3	1342.2
160°	1358.6	1357.8	1356.2	1354.6	1353.0	1351.4	1353.0	1354.6	1356.2	1357.8	1358.6
162.5°	1374.9	1373.9	1371.8	1369.8	1367.7	1365.7	1367.7	1369.8	1371.8	1373.9	1374.9
165°	1387.2	1386.4	1384.8	1383.2	1381.6	1380.0	1381.6	1383.2	1384.8	1386.4	1387.2
167.5°	1398.4	1397.4	1395.3	1393.3	1391.2	1389.2	1391.2	1393.3	1395.3	1397.4	1398.4
170°	1406.6	1405.6	1403.5	1401.5	1399.4	1397.4	1399.4	1401.5	1403.5	1405.6	1406.6
172.5°	1412.7	1411.7	1409.6	1407.6	1405.5	1403.5	1405.5	1407.6	1409.6	1411.7	1412.7
175°	1416.8	1415.7	1413.4	1411.1	1408.9	1406.6	1408.9	1411.1	1413.4	1415.7	1416.8
177.5°	1417.8	1416.8	1414.7	1412.7	1410.6	1408.6	1410.6	1412.7	1414.7	1416.8	1417.8
180°	1411.7	1411.7	1411.7	1411.7	1411.7	1411.7	1411.7	1411.7	1411.7	1411.7	1411.7

TEST NUMBER: P998094

CATALOG NUMBER: SA2XXDIP-B290D1080UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4
2.5°	525.3	528.7	527.5	522.8	528.3	528.3	532.1	532.1	536.8	538.5	541.1
5°	495.6	498.1	500.2	498.1	501.9	507.9	511.3	514.3	520.7	523.2	527.0
7.5°	463.7	468.3	470.5	470.5	476.8	483.7	490.5	494.7	503.6	507.0	510.9
10°	432.6	438.1	442.4	442.0	452.6	456.9	465.4	475.1	484.1	489.2	494.7
12.5°	399.9	402.8	408.8	417.3	419.8	427.5	437.3	449.6	465.8	470.5	478.5
15°	372.6	380.7	385.4	389.2	395.2	402.4	413.0	425.0	441.1	451.3	459.8
17.5°	349.7	360.3	363.3	362.4	370.1	381.1	393.5	402.4	416.9	429.2	437.3
20°	330.9	335.2	340.3	342.4	348.4	360.3	372.2	382.4	394.3	404.1	413.5
22.5°	312.2	315.6	319.9	323.7	328.4	335.2	346.7	359.4	370.9	380.3	390.9
25°	296.9	299.0	302.9	305.8	310.9	315.6	323.7	337.7	351.4	356.9	366.2
27.5°	282.0	283.7	286.3	289.7	292.2	296.9	304.1	315.6	329.7	335.2	348.0
30°	268.8	270.1	272.7	274.4	275.6	281.2	286.7	295.6	306.3	313.9	323.3
32.5°	256.5	257.8	260.3	260.8	262.5	265.4	270.5	278.6	288.0	294.4	302.4
35°	242.9	243.7	246.3	247.1	248.4	251.0	254.8	260.8	269.3	273.9	281.2
37.5°	232.3	231.8	233.5	234.8	236.5	237.8	239.1	245.0	251.4	255.7	261.2
40°	220.8	219.9	220.3	222.0	222.9	224.6	224.6	230.6	234.8	238.2	242.5
42.5°	209.3	208.9	208.0	208.9	209.7	210.1	210.6	214.8	219.1	222.0	226.7
45°	197.8	197.4	196.5	196.9	196.9	197.8	199.1	200.8	203.8	206.3	208.9
47.5°	187.2	186.3	185.0	184.6	185.5	185.5	185.5	187.2	190.1	191.0	193.5
50°	176.1	174.8	173.1	172.3	172.3	171.9	172.7	173.1	175.7	176.5	178.7
52.5°	164.2	163.3	161.6	159.9	160.4	159.5	159.9	160.4	161.2	162.5	163.8
55°	152.3	150.6	149.3	148.9	147.6	147.6	146.3	148.0	147.6	148.0	149.7
57.5°	140.8	139.1	137.0	136.1	134.8	134.4	133.6	133.1	133.6	134.8	136.1
60°	127.2	126.3	125.1	123.8	122.9	121.7	120.8	120.8	120.4	120.4	120.8
62.5°	114.0	113.6	111.9	111.4	110.6	109.7	108.5	107.6	107.6	108.5	108.9
65°	101.2	100.8	99.5	99.1	97.0	96.1	95.7	95.3	94.4	94.4	94.4
67.5°	89.3	88.1	88.1	85.9	84.2	83.4	82.5	82.1	82.1	82.1	82.5
70°	76.1	76.1	74.9	73.6	71.9	72.3	71.0	69.8	69.8	68.9	69.3
72.5°	63.4	63.0	61.7	61.3	60.0	58.7	57.9	58.7	57.4	57.0	57.4
75°	51.0	50.6	49.8	48.9	49.3	48.1	46.8	46.4	46.4	45.5	45.5
77.5°	39.1	40.0	38.3	37.9	37.0	36.2	35.7	35.3	35.3	35.3	36.2
80°	27.2	27.6	27.6	26.8	27.2	25.9	25.9	25.9	24.7	25.1	25.5
82.5°	17.4	17.4	17.0	17.4	17.0	17.0	16.6	16.6	16.2	16.2	16.6
85°	9.8	9.4	8.9	9.8	9.4	9.4	8.9	8.9	8.9	8.9	8.9
87.5°	2.1	2.6	2.6	2.6	2.6	3.0	3.0	3.0	3.4	3.4	3.4
90°	24.9	23.8	22.7	21.5	20.4	18.6	16.8	15.0	13.2	12.3	11.0
92.5°	26.4	25.9	25.4	25.0	24.5	23.8	23.2	22.5	21.8	21.5	21.9
95°	44.3	43.2	42.1	40.9	39.8	38.2	36.6	35.1	33.5	32.7	36.4
97.5°	54.9	54.2	53.5	52.8	52.1	48.5	44.9	41.2	37.6	35.8	45.1
100°	65.5	63.7	61.8	60.0	58.2	54.4	50.5	46.7	42.8	40.9	56.4
102.5°	70.3	67.8	65.3	62.8	60.3	101.6	142.9	184.2	225.5	246.2	246.4
105°	72.3	69.8	67.3	64.8	62.3	124.3	186.3	248.2	310.2	341.2	337.8
107.5°	74.4	71.9	69.4	66.9	64.4	140.9	217.4	293.9	370.4	408.6	405.8
110°	88.0	110.7	133.4	156.1	178.8	244.4	310.0	375.6	441.2	474.0	471.6

TEST NUMBER: P998094

CATALOG NUMBER: SA2XXDIP-B290D1080UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	127.6	225.4	323.3	421.1	518.9	522.8	526.6	530.5	534.4	536.3	534.3
115°	209.8	314.9	420.0	525.1	630.2	624.5	618.9	613.2	607.5	604.7	602.8
117.5°	555.5	588.0	620.5	652.9	685.4	681.5	677.7	673.8	669.9	668.0	665.7
120°	759.6	756.9	754.2	751.4	748.7	744.6	740.5	736.4	732.3	730.3	728.6
122.5°	814.4	813.1	811.7	810.4	809.0	804.5	799.9	795.4	790.9	788.6	786.8
125°	869.5	867.9	866.3	864.7	863.1	858.8	854.5	850.2	845.9	843.7	842.2
127.5°	922.3	920.0	917.7	915.5	913.2	909.8	906.4	903.0	899.6	897.9	896.3
130°	971.2	968.7	966.2	963.7	961.2	958.7	956.2	953.7	951.2	950.0	948.2
132.5°	1017.4	1015.3	1013.3	1011.2	1009.2	1006.7	1004.2	1001.7	999.2	998.0	996.5
135°	1062.2	1059.9	1057.6	1055.4	1053.1	1051.1	1049.0	1047.0	1044.9	1043.9	1042.1
137.5°	1104.1	1101.8	1099.5	1097.3	1095.0	1092.7	1090.5	1088.2	1085.9	1084.8	1083.4
140°	1144.1	1142.0	1140.0	1137.9	1135.9	1133.4	1130.9	1128.4	1125.9	1124.6	1123.7
142.5°	1180.9	1179.1	1177.3	1175.5	1173.7	1170.7	1167.8	1164.8	1161.9	1160.4	1159.6
145°	1214.7	1213.1	1211.6	1210.0	1208.4	1204.5	1200.7	1196.8	1192.9	1191.0	1191.1
147.5°	1244.6	1243.5	1242.4	1241.2	1240.1	1236.2	1232.4	1228.5	1224.6	1222.7	1223.0
150°	1273.1	1271.7	1270.4	1269.0	1267.6	1264.0	1260.4	1256.7	1253.1	1251.3	1252.1
152.5°	1298.6	1297.3	1295.9	1294.6	1293.2	1289.8	1286.4	1283.0	1279.6	1277.9	1278.8
155°	1321.1	1319.8	1318.4	1317.1	1315.7	1313.0	1310.2	1307.5	1304.8	1303.4	1304.4
157.5°	1341.4	1339.8	1338.3	1336.7	1335.1	1333.1	1331.0	1329.0	1326.9	1325.9	1326.8
160°	1357.9	1356.5	1355.2	1353.8	1352.4	1351.0	1349.7	1348.3	1347.0	1346.3	1347.0
162.5°	1374.1	1372.5	1370.9	1369.3	1367.7	1366.6	1365.4	1364.3	1363.2	1362.6	1363.3
165°	1386.4	1384.8	1383.2	1381.6	1380.0	1379.3	1378.6	1377.9	1377.2	1376.9	1377.6
167.5°	1397.6	1396.0	1394.4	1392.8	1391.2	1390.5	1389.9	1389.2	1388.5	1388.2	1388.9
170°	1405.8	1404.2	1402.6	1401.0	1399.4	1399.0	1398.5	1398.1	1397.6	1397.4	1398.1
172.5°	1411.9	1410.3	1408.7	1407.1	1405.5	1405.1	1404.6	1404.2	1403.7	1403.5	1404.2
175°	1416.0	1414.4	1412.8	1411.2	1409.6	1409.2	1408.7	1408.3	1407.8	1407.6	1408.4
177.5°	1417.0	1415.4	1413.8	1412.2	1410.6	1410.4	1410.2	1409.9	1409.7	1409.6	1410.4
180°	1411.7	1411.7	1411.7	1411.7	1411.7	1411.7	1411.7	1411.7	1411.7	1411.7	1411.7

TEST NUMBER: P998094

CATALOG NUMBER: SA2XXDIP-B290D1080UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	553.4	553.4	553.4	553.4
2.5°	543.2	543.2	549.6	556.4
5°	531.3	534.3	544.5	553.8
7.5°	519.8	524.9	537.7	549.6
10°	505.8	512.6	528.3	542.4
12.5°	492.2	498.5	516.8	532.6
15°	473.0	481.1	500.7	520.2
17.5°	453.9	462.0	485.8	508.7
20°	431.3	442.0	468.8	499.4
22.5°	410.5	423.7	453.5	478.1
25°	387.5	407.9	435.6	467.5
27.5°	367.1	387.5	415.6	447.9
30°	344.1	365.0	393.9	423.7
32.5°	322.0	341.2	369.2	405.8
35°	299.0	317.3	344.6	381.6
37.5°	278.2	296.1	325.8	359.9
40°	257.8	276.5	302.0	336.0
42.5°	238.6	255.2	278.2	312.2
45°	221.2	233.1	254.4	286.3
47.5°	202.9	213.5	233.1	265.0
50°	185.9	194.8	211.8	241.6
52.5°	169.3	177.0	192.7	216.5
55°	154.4	161.6	173.1	196.5
57.5°	139.1	144.6	155.7	174.4
60°	124.2	129.3	138.2	153.6
62.5°	109.3	113.6	122.1	134.4
65°	96.1	99.5	105.9	116.6
67.5°	83.4	85.5	90.6	99.1
70°	71.0	72.7	77.0	83.8
72.5°	57.9	59.6	64.2	68.9
75°	46.8	47.2	50.6	54.4
77.5°	36.6	36.2	38.7	41.7
80°	25.1	26.4	28.5	29.8
82.5°	17.0	17.4	18.3	19.1
85°	9.4	9.8	9.8	11.1
87.5°	3.8	4.3	4.3	4.7
90°	8.5	6.0	3.5	1.0
92.5°	22.8	23.7	24.6	25.5
95°	43.9	51.4	58.9	66.4
97.5°	63.7	82.3	100.9	119.5
100°	87.5	118.6	149.7	180.8
102.5°	246.9	247.3	247.8	248.2
105°	331.0	324.1	317.3	310.5
107.5°	400.1	394.4	388.8	383.1
110°	466.8	462.1	457.3	452.5



TEST NUMBER: P998094

CATALOG NUMBER: SA2XXDIP-B290D1080UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	530.2	526.1	522.0	517.9
115°	598.9	595.0	591.2	587.3
117.5°	661.2	656.7	652.1	647.6
120°	725.2	721.8	718.4	715.0
122.5°	783.1	779.5	775.8	772.2
125°	839.3	836.4	833.4	830.5
127.5°	893.1	890.0	886.8	883.6
130°	944.5	940.9	937.2	933.6
132.5°	993.6	990.6	987.7	984.7
135°	1038.5	1034.8	1031.2	1027.6
137.5°	1080.7	1078.0	1075.2	1072.5
140°	1121.9	1120.1	1118.3	1116.5
142.5°	1158.0	1156.4	1154.8	1153.2
145°	1191.4	1191.6	1191.9	1192.1
147.5°	1223.7	1224.4	1225.1	1225.8
150°	1253.7	1255.2	1256.8	1258.4
152.5°	1280.6	1282.4	1284.2	1286.0
155°	1306.5	1308.5	1310.6	1312.6
157.5°	1328.6	1330.4	1332.2	1334.0
160°	1348.3	1349.7	1351.0	1352.4
162.5°	1364.7	1366.0	1367.4	1368.8
165°	1379.0	1380.3	1381.7	1383.1
167.5°	1390.2	1391.6	1392.9	1394.3
170°	1399.4	1400.8	1402.1	1403.5
172.5°	1405.5	1406.9	1408.2	1409.6
175°	1410.0	1411.5	1413.1	1414.7
177.5°	1412.0	1413.6	1415.2	1416.8
180°	1411.7	1411.7	1411.7	1411.7

TEST NUMBER: P998094

CATALOG NUMBER: SA2XXDIP-B290D1080UB2750-4F0-XX-W2A-A_5000K

CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	10.05	10.70	11.21	11.84	13.46	7.54	8.19	8.71	9.34	10.95
	3H	10.84	11.42	12.02	12.58	14.21	8.87	9.45	10.04	10.60	12.23
	4H	11.00	11.55	12.18	12.71	14.34	9.32	9.87	10.50	11.03	12.66
	6H	11.04	11.54	12.22	12.70	14.34	9.62	10.12	10.81	11.28	12.93
	8H	11.01	11.49	12.20	12.66	14.30	9.70	10.18	10.89	11.35	12.99
	12H	10.97	11.42	12.16	12.59	14.25	9.73	10.19	10.92	11.35	13.01
4H	2H	10.06	10.61	11.25	11.77	13.40	7.96	8.51	9.15	9.67	11.30
	3H	11.03	11.48	12.22	12.66	14.31	9.40	9.86	10.59	11.04	12.69
	4H	11.29	11.72	12.49	12.88	14.55	9.93	10.35	11.12	11.52	13.18
	6H	11.41	11.77	12.61	12.96	14.62	10.30	10.66	11.49	11.85	13.50
	8H	11.41	11.74	12.60	12.92	14.59	10.40	10.74	11.60	11.92	13.59
	12H	11.36	11.67	12.57	12.86	14.53	10.45	10.76	11.66	11.95	13.62
8H	4H	11.29	11.62	12.48	12.81	14.47	10.06	10.39	11.25	11.57	13.24
	6H	11.46	11.73	12.67	12.96	14.63	10.48	10.76	11.70	11.98	13.65
	8H	11.49	11.73	12.71	12.93	14.62	10.63	10.87	11.85	12.07	13.76
	12H	11.46	11.67	12.68	12.87	14.59	10.71	10.93	11.94	12.13	13.84
12H	4H	11.23	11.54	12.44	12.73	14.41	10.02	10.33	11.23	11.52	13.19
	6H	11.44	11.68	12.65	12.88	14.56	10.48	10.72	11.70	11.92	13.61
	8H	11.46	11.67	12.68	12.87	14.59	10.63	10.84	11.85	12.04	13.76