

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: P1029302

Luminaire Tested: S122DIW-B290D1240UB2750-4F0-XX-W2A-A1_3000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029302
REPORT IS A COMBINATION OF REPORTS P985478 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B290D1240UB2750-4F0-XX-W2A-A1_3000K
Description: Define 2 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

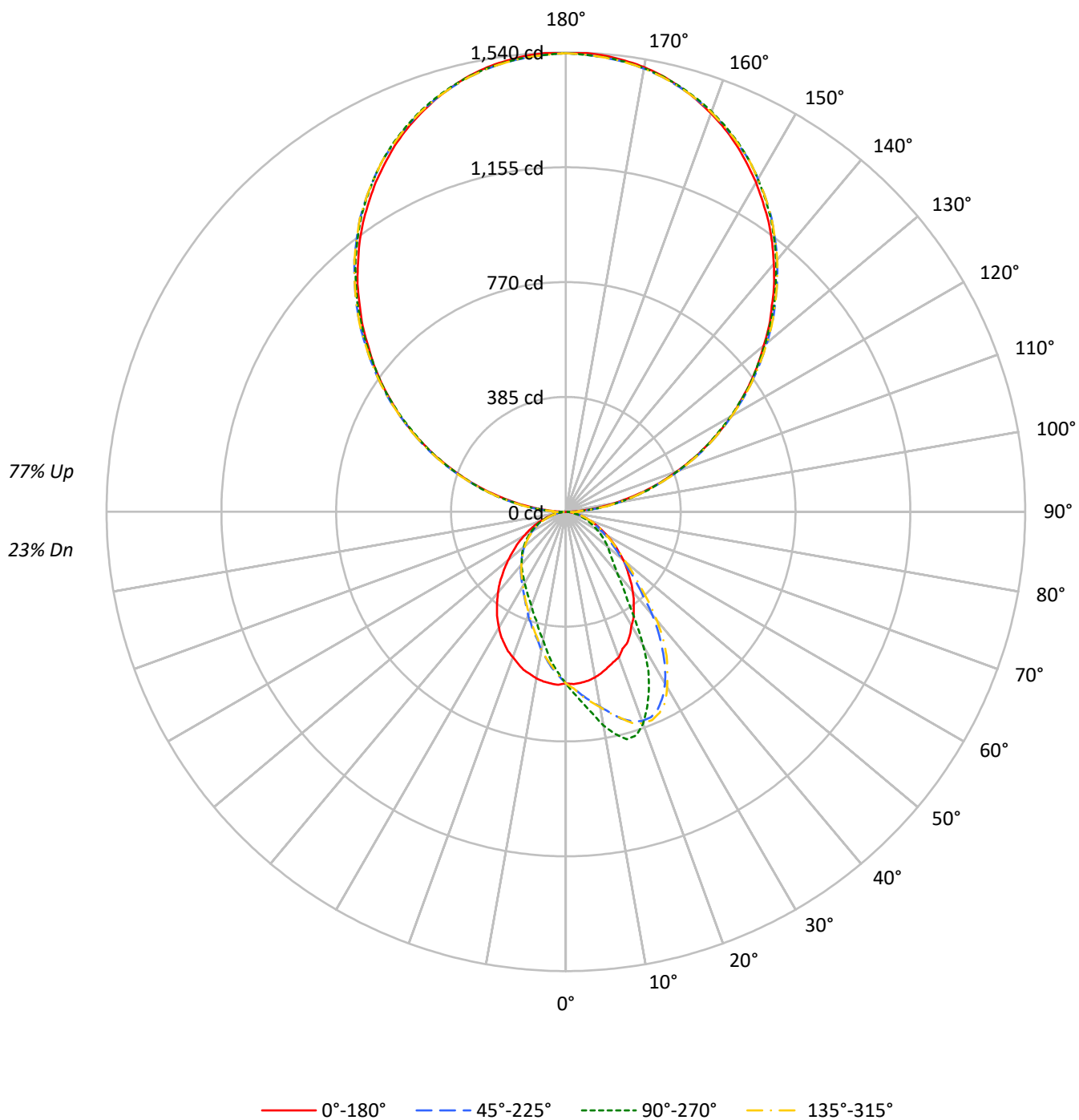
Lumens per Lamp: N/A
Luminaire Lumens: 5571.0 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.23
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 55.1
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	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	31	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°	9105	9105	9105	9105
5°	9126	9708	9161	7724
10°	9021	10597	9077	6367
15°	8802	11178	8924	5364
20°	8664	10495	8664	4662
25°	8389	9016	8427	4169
30°	7933	7088	8085	3777
35°	7532	4901	7657	3455
40°	7070	3701	7148	3199
45°	6497	3040	6604	2922
50°	6005	2670	6017	2675
55°	5441	2274	5478	2407
60°	4843	1899	4910	2101
65°	4305	1545	4383	1794
70°	3772	1212	3867	1447
75°	3166	880	3289	1049
80°	2467	557	2651	622
85°	1624	280	1752	207

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°

Vertical Angle: 45°

Luminance: 9412 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.8	1.0
10°-20°	159.5	2.9
20°-30°	231.4	4.2
30°-40°	244.0	4.4
40°-50°	215.9	3.9
50°-60°	172.4	3.1
60°-70°	117.1	2.1
70°-80°	59.9	1.1
80°-90°	18.5	0.3
90°-100°	95.1	1.7
100°-110°	302.3	5.4
110°-120°	517.3	9.3
120°-130°	680.3	12.2
130°-140°	763.6	13.7
140°-150°	748.8	13.4
150°-160°	628.1	11.3
160°-170°	416.6	7.5
170°-180°	145.6	2.6
0°-30°	445.7	8.0
0°-40°	689.6	12.4
0°-60°	1077.9	19.3
0°-90°	1273.4	22.9
90°-120°	914.6	16.4
90°-150°	3107.3	55.8
90°-180°	4298.0	77.1
0°-180°	5571.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	575	575	575	575	575	
5°	576	642	578	511	576	55
15°	541	790	548	379	541	153
25°	486	658	488	304	486	222
35°	397	358	403	252	397	248
45°	298	216	302	207	298	231
55°	204	152	206	160	204	182
65°	121	93	123	108	121	120
75°	57	46	59	55	57	61
85°	12	12	12	9	12	13
90°	1	44	1	44	1	5
95°	68	80	68	80	68	75
105°	279	288	279	288	279	294
115°	519	519	519	519	519	513
125°	755	758	755	758	755	675
135°	977	988	977	988	977	755
145°	1186	1199	1186	1199	1186	741
155°	1356	1366	1356	1366	1356	624
165°	1475	1476	1475	1476	1475	416
175°	1535	1529	1535	1529	1535	146
180°	1537	1537	1537	1537	1537	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2
2.5°	578.3	579.6	581.8	582.2	586.7	590.2	594.2	594.2	595.5	595.1	591.5
5°	575.6	579.6	585.3	590.2	598.2	601.7	607.0	611.0	614.5	617.2	616.7
7.5°	571.2	578.3	586.7	595.9	606.6	612.7	620.3	627.3	632.2	636.6	639.7
10°	563.7	575.6	587.1	599.5	613.2	621.6	630.4	639.7	647.2	655.6	663.6
12.5°	553.5	570.7	584.9	601.3	618.1	627.3	641.5	648.6	663.1	684.4	690.1
15°	540.7	564.1	577.4	598.2	620.3	627.8	647.2	658.7	688.8	702.1	718.0
17.5°	528.7	554.8	572.5	596.4	618.1	632.6	651.7	675.1	700.3	719.3	737.0
20°	519.0	544.2	565.4	592.0	619.4	637.9	657.8	686.1	713.5	733.0	746.7
22.5°	496.9	529.2	553.9	583.6	616.7	642.4	661.4	692.3	721.9	733.9	745.8
25°	485.9	513.7	542.5	576.1	615.0	645.5	661.8	696.3	722.4	726.8	729.5
27.5°	465.5	496.9	530.5	569.0	614.5	640.2	660.9	692.3	713.1	710.0	702.1
30°	440.3	478.8	515.9	557.5	608.3	636.2	655.6	684.4	695.0	679.1	664.9
32.5°	421.8	458.0	499.1	547.3	601.3	627.8	646.8	669.3	671.5	642.8	618.9
35°	396.6	436.8	483.2	534.1	589.3	613.2	630.9	644.6	634.0	593.7	565.4
37.5°	374.0	413.8	463.3	515.0	573.0	596.4	610.5	612.7	586.7	551.3	509.7
40°	349.3	390.4	442.1	496.5	554.8	575.2	584.0	577.4	539.8	498.7	450.5
42.5°	324.5	365.2	420.9	476.6	531.8	549.1	552.6	534.5	488.5	440.3	384.6
45°	297.5	340.0	395.7	451.8	505.3	515.0	515.5	489.4	435.0	384.6	332.9
47.5°	275.4	314.8	370.0	426.2	471.3	477.9	475.3	445.2	386.0	329.4	284.3
50°	251.1	288.7	343.5	398.8	437.2	439.0	432.4	389.5	331.6	279.8	244.0
52.5°	225.0	263.0	313.4	366.5	401.0	398.3	385.5	339.5	285.2	242.3	214.9
55°	204.2	237.8	285.2	336.9	361.2	353.7	339.5	292.7	249.8	213.5	189.7
57.5°	181.3	210.9	257.3	302.4	316.5	309.5	295.3	251.6	211.8	184.4	168.4
60°	159.6	186.6	227.2	264.8	275.9	268.4	252.0	212.6	183.9	160.9	149.0
62.5°	139.7	163.1	197.2	231.7	236.1	228.6	214.4	182.6	157.8	139.7	130.9
65°	121.1	143.2	170.6	196.7	200.7	192.8	178.2	155.2	134.4	122.9	114.5
67.5°	103.0	120.7	145.0	164.0	166.2	158.7	146.8	128.2	115.4	103.0	96.8
70°	87.1	100.4	119.4	134.8	135.7	128.7	122.5	105.7	95.9	87.1	82.2
72.5°	71.6	80.9	95.5	107.0	107.4	103.0	97.3	86.7	78.3	72.1	67.2
75°	56.6	64.5	73.4	83.6	83.1	79.6	75.2	68.5	61.5	57.5	55.3
77.5°	43.3	48.2	55.3	61.9	61.9	60.1	57.5	52.6	48.2	44.2	42.0
80°	30.9	34.0	39.8	42.0	42.9	42.4	40.2	36.7	34.9	31.8	30.9
82.5°	19.9	22.1	24.8	27.0	28.3	27.4	27.0	25.2	22.5	21.7	20.8
85°	11.5	12.4	13.7	15.0	15.5	15.0	15.9	14.6	13.3	13.3	12.8
87.5°	4.9	5.3	6.2	6.2	6.6	6.6	6.2	6.6	6.6	6.2	5.7
90°	1.3	4.8	8.2	11.7	15.2	16.9	20.1	26.4	32.7	39.1	45.4
92.5°	28.5	30.8	33.1	35.4	37.7	38.9	39.0	39.3	39.6	39.9	40.2
95°	67.5	70.4	73.2	76.1	79.0	80.4	80.7	81.3	81.8	82.4	83.0
97.5°	112.9	115.5	118.1	120.6	123.2	124.5	125.1	126.2	127.4	128.5	129.7
100°	164.7	167.0	169.3	171.6	173.9	175.1	175.5	176.4	177.3	178.1	179.0
102.5°	219.2	220.9	222.7	224.4	226.1	227.0	227.6	228.7	229.9	231.0	232.2
105°	278.9	279.8	280.6	281.5	282.4	282.8	283.1	283.7	284.2	284.8	285.4
107.5°	338.6	339.8	340.9	342.1	343.2	343.8	343.8	343.8	343.8	343.8	343.8
110°	395.6	397.3	399.1	400.8	402.5	403.4	403.4	403.4	403.4	403.4	403.4

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	457.9	459.6	461.4	463.1	464.8	465.7	465.6	465.3	465.0	464.7	464.4
115°	518.9	520.6	522.4	524.1	525.8	526.7	526.4	525.8	525.3	524.7	524.1
117.5°	579.8	582.1	584.4	586.7	589.0	590.2	589.5	588.0	586.6	585.1	583.7
120°	640.8	643.1	645.4	647.7	650.0	651.2	650.0	647.7	645.4	643.1	640.8
122.5°	696.6	699.5	702.4	705.3	708.2	709.6	708.9	707.4	706.0	704.5	703.1
125°	755.0	757.6	760.2	762.7	765.3	766.6	766.2	765.3	764.4	763.6	762.7
127.5°	812.0	815.2	818.4	821.5	824.7	826.3	825.7	824.6	823.4	822.3	821.1
130°	865.2	869.0	872.7	876.5	880.2	882.1	881.8	881.2	880.7	880.1	879.5
132.5°	924.9	927.8	930.7	933.6	936.5	937.9	938.0	938.3	938.6	938.9	939.2
135°	976.8	980.0	983.2	986.3	989.5	991.1	991.4	991.9	992.5	993.0	993.6
137.5°	1033.9	1036.5	1039.1	1041.6	1044.2	1045.5	1045.8	1046.4	1046.9	1047.5	1048.1
140°	1084.4	1087.0	1089.6	1092.2	1094.8	1096.1	1096.8	1098.3	1099.7	1101.2	1102.6
142.5°	1136.3	1138.9	1141.5	1144.1	1146.7	1148.0	1148.4	1149.3	1150.2	1151.0	1151.9
145°	1185.6	1187.6	1189.6	1191.7	1193.7	1194.7	1195.6	1197.3	1199.0	1200.8	1202.5
147.5°	1229.7	1232.3	1234.9	1237.5	1240.1	1241.4	1242.0	1243.1	1244.3	1245.4	1246.6
150°	1275.1	1276.8	1278.6	1280.3	1282.0	1282.9	1283.5	1284.6	1285.8	1286.9	1288.1
152.5°	1315.3	1317.0	1318.8	1320.5	1322.2	1323.1	1323.8	1325.3	1326.7	1328.2	1329.6
155°	1355.6	1356.5	1357.3	1358.2	1359.1	1359.5	1359.9	1360.8	1361.6	1362.5	1363.3
157.5°	1390.6	1391.2	1391.8	1392.3	1392.9	1393.2	1393.5	1394.1	1394.6	1395.2	1395.8
160°	1421.7	1422.3	1422.9	1423.4	1424.0	1424.3	1424.4	1424.7	1425.0	1425.3	1425.6
162.5°	1450.3	1450.3	1450.3	1450.3	1450.3	1450.3	1450.4	1450.7	1451.0	1451.3	1451.6
165°	1474.9	1474.6	1474.3	1474.0	1473.7	1473.6	1473.6	1473.6	1473.6	1473.6	1473.6
167.5°	1497.0	1496.1	1495.3	1494.4	1493.5	1493.1	1493.1	1493.1	1493.1	1493.1	1493.1
170°	1513.8	1512.9	1512.1	1511.2	1510.3	1509.9	1509.8	1509.5	1509.2	1508.9	1508.6
172.5°	1525.5	1524.6	1523.8	1522.9	1522.0	1521.6	1521.5	1521.2	1520.9	1520.6	1520.3
175°	1534.6	1533.7	1532.9	1532.0	1531.1	1530.7	1530.4	1529.8	1529.3	1528.7	1528.1
177.5°	1539.8	1538.9	1538.1	1537.2	1536.3	1535.9	1535.6	1535.0	1534.5	1533.9	1533.3
180°	1537.2	1537.2	1537.2	1537.2	1537.2	1537.2	1537.2	1537.2	1537.2	1537.2	1537.2

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2
2.5°	597.7	598.2	599.0	603.5	605.7	606.1	604.3	608.3	609.7	608.3	607.4
5°	626.0	628.7	634.0	639.7	639.3	639.7	642.4	645.0	645.9	642.4	643.7
7.5°	650.8	656.1	661.8	670.7	670.7	675.1	676.9	679.1	684.4	681.7	680.8
10°	679.1	686.1	696.7	710.9	711.3	715.8	720.2	727.3	729.5	727.7	728.6
12.5°	714.4	728.1	729.0	744.5	751.6	752.5	759.5	758.2	762.6	762.6	770.1
15°	729.9	751.1	763.1	778.1	782.5	777.2	783.0	789.1	789.6	789.6	789.1
17.5°	757.8	766.2	778.1	786.1	787.8	787.8	788.3	790.9	789.1	785.6	788.3
20°	763.5	767.0	771.5	770.6	771.5	767.0	762.6	758.2	758.6	756.4	763.1
22.5°	752.9	752.0	741.8	735.2	735.2	726.4	718.0	714.0	710.0	711.3	713.5
25°	726.4	712.7	700.3	690.6	688.3	674.2	662.7	659.2	652.5	657.8	658.7
27.5°	683.9	668.5	648.6	640.2	628.7	622.9	615.0	604.3	590.6	598.6	597.3
30°	638.4	615.4	599.0	578.7	560.6	559.3	544.2	526.5	519.5	519.5	523.4
32.5°	587.5	557.0	533.2	504.4	486.8	479.2	461.1	443.4	447.4	434.1	439.0
35°	528.3	488.1	458.0	430.2	416.9	408.1	384.6	374.9	364.3	358.1	369.6
37.5°	471.7	425.3	386.8	356.3	351.5	335.6	319.6	313.4	307.3	309.9	309.5
40°	402.8	361.6	327.2	303.3	294.9	287.4	276.8	269.2	265.3	267.5	267.9
42.5°	340.4	305.9	280.3	263.5	256.4	251.1	245.8	239.6	238.3	238.3	240.1
45°	292.2	263.9	246.7	233.0	229.0	225.0	221.0	218.4	217.5	215.7	217.1
47.5°	253.8	231.2	220.6	210.4	206.0	205.1	201.6	200.3	198.5	198.1	198.5
50°	221.5	207.3	197.6	191.9	188.8	187.4	185.7	183.0	182.1	184.4	183.5
52.5°	198.9	185.7	180.4	174.6	172.9	171.1	168.4	168.9	168.4	167.6	167.6
55°	176.4	168.0	162.7	158.3	157.8	156.1	153.9	153.0	152.5	151.6	153.0
57.5°	158.3	151.6	146.8	142.8	141.0	141.0	138.8	137.1	137.1	136.6	137.1
60°	140.1	133.5	130.4	126.4	125.1	124.7	123.3	122.5	121.1	121.1	121.1
62.5°	123.3	118.0	114.5	111.0	111.4	109.2	107.4	106.5	106.5	107.0	107.0
65°	107.4	103.9	99.5	96.4	95.5	95.1	94.2	93.7	92.4	93.3	93.3
67.5°	92.8	88.0	85.3	84.0	82.7	82.2	81.3	80.5	80.0	79.6	80.5
70°	78.3	74.3	72.1	71.2	69.9	69.4	69.0	67.6	68.1	68.5	69.0
72.5°	65.0	61.5	61.0	58.4	58.4	58.4	56.6	57.5	57.0	56.1	57.0
75°	51.3	49.5	48.6	47.3	47.7	47.3	46.9	45.5	45.5	46.0	46.4
77.5°	40.7	38.9	38.5	37.1	36.3	37.1	36.3	35.8	35.8	36.3	36.3
80°	30.1	29.2	27.9	27.9	27.9	27.4	27.4	27.4	27.0	26.5	27.0
82.5°	19.9	19.9	19.5	19.0	19.5	18.6	19.0	19.0	19.0	19.0	19.0
85°	12.8	12.4	12.4	11.9	11.9	11.9	12.4	11.5	11.5	11.9	11.9
87.5°	5.7	5.7	5.7	6.2	5.7	5.7	5.7	6.2	5.7	5.7	5.7
90°	44.8	44.2	43.7	43.1	42.8	42.9	43.2	43.5	43.8	44.1	43.8
92.5°	40.5	40.8	41.1	41.4	41.5	41.5	41.5	41.5	41.5	41.5	41.5
95°	83.0	83.0	83.0	83.0	83.0	82.7	82.1	81.6	81.0	80.4	81.0
97.5°	129.7	129.7	129.7	129.7	129.7	129.7	129.7	129.7	129.7	129.7	129.7
100°	179.0	179.0	179.0	179.0	179.0	178.9	178.6	178.3	178.0	177.7	178.0
102.5°	232.5	232.8	233.1	233.4	233.5	233.4	233.1	232.8	232.5	232.2	232.5
105°	286.0	286.6	287.1	287.7	288.0	288.0	288.0	288.0	288.0	288.0	288.0
107.5°	344.1	344.4	344.7	345.0	345.1	344.4	342.9	341.5	340.0	338.6	340.0
110°	403.4	403.4	403.4	403.4	403.4	403.0	402.1	401.2	400.4	399.5	400.4

TEST NUMBER: P1029302

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	463.5	462.7	461.8	460.9	460.5	460.2	459.6	459.1	458.5	457.9	458.5
115°	523.8	523.5	523.2	522.9	522.8	522.4	521.5	520.6	519.8	518.9	519.8
117.5°	582.8	582.0	581.1	580.2	579.8	579.4	578.5	577.7	576.8	576.0	576.8
120°	640.8	640.8	640.8	640.8	640.8	640.4	639.5	638.6	637.8	636.9	637.8
122.5°	702.2	701.4	700.5	699.6	699.2	698.9	698.3	697.8	697.2	696.6	697.2
125°	761.9	761.0	760.2	759.3	758.9	758.8	758.5	758.2	757.9	757.6	757.9
127.5°	819.9	818.8	817.6	816.5	815.9	815.5	814.6	813.7	812.9	812.0	812.9
130°	878.9	878.3	877.8	877.2	876.9	876.3	875.2	874.0	872.9	871.7	872.9
132.5°	937.8	936.3	934.9	933.4	932.7	932.3	931.4	930.5	929.7	928.8	929.7
135°	993.3	993.0	992.7	992.4	992.3	991.9	991.0	990.2	989.3	988.5	989.3
137.5°	1047.8	1047.5	1047.2	1046.9	1046.8	1046.2	1045.1	1043.9	1042.8	1041.6	1042.8
140°	1102.6	1102.6	1102.6	1102.6	1102.6	1102.0	1100.9	1099.7	1098.6	1097.4	1098.6
142.5°	1152.2	1152.5	1152.8	1153.1	1153.2	1152.6	1151.5	1150.3	1149.2	1148.0	1149.2
145°	1202.8	1203.1	1203.4	1203.7	1203.8	1203.2	1202.1	1200.9	1199.8	1198.6	1199.8
147.5°	1247.2	1247.8	1248.3	1248.9	1249.2	1248.6	1247.5	1246.3	1245.2	1244.0	1245.2
150°	1289.0	1289.8	1290.7	1291.6	1292.0	1291.6	1290.7	1289.8	1289.0	1288.1	1289.0
152.5°	1330.8	1331.9	1333.1	1334.2	1334.8	1334.2	1333.1	1331.9	1330.8	1329.6	1330.8
155°	1364.7	1366.2	1367.6	1369.1	1369.8	1369.4	1368.5	1367.6	1366.8	1365.9	1366.8
157.5°	1397.8	1399.8	1401.9	1403.9	1404.9	1404.2	1402.7	1401.3	1399.8	1398.4	1399.8
160°	1427.3	1429.1	1430.8	1432.5	1433.4	1432.8	1431.7	1430.5	1429.4	1428.2	1429.4
162.5°	1453.6	1455.6	1457.6	1459.6	1460.6	1459.9	1458.4	1457.0	1455.5	1454.1	1455.5
165°	1475.6	1477.6	1479.7	1481.7	1482.7	1482.0	1480.5	1479.1	1477.6	1476.2	1477.6
167.5°	1495.1	1497.1	1499.1	1501.1	1502.1	1501.4	1500.0	1498.5	1497.1	1495.7	1497.1
170°	1510.6	1512.6	1514.7	1516.7	1517.7	1516.8	1515.1	1513.4	1511.6	1509.9	1511.6
172.5°	1522.3	1524.3	1526.4	1528.4	1529.4	1528.5	1526.8	1525.1	1523.3	1521.6	1523.3
175°	1530.1	1532.1	1534.2	1536.2	1537.2	1536.3	1534.6	1532.9	1531.1	1529.4	1531.1
177.5°	1535.0	1536.8	1538.5	1540.2	1541.1	1540.2	1538.5	1536.8	1535.0	1533.3	1535.0
180°	1537.2	1537.2	1537.2	1537.2	1537.2	1537.2	1537.2	1537.2	1537.2	1537.2	1537.2

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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2
2.5°	609.7	606.6	603.9	604.3	606.6	604.8	600.4	594.6	592.4	589.8	592.4
5°	646.3	643.7	638.4	638.8	637.5	635.7	628.7	619.8	619.8	612.7	611.9
7.5°	682.6	678.6	675.1	674.2	669.3	665.8	659.6	647.2	642.4	634.0	629.1
10°	723.3	720.2	716.2	711.3	708.7	702.5	692.3	674.2	665.4	653.9	645.5
12.5°	764.4	763.9	755.1	745.4	744.9	735.2	728.1	703.8	691.9	676.4	656.5
15°	790.5	788.3	783.4	778.5	779.9	769.3	753.3	724.6	716.6	698.1	676.9
17.5°	790.0	790.0	788.7	787.8	786.5	783.4	774.6	755.5	742.7	719.3	699.4
20°	764.8	770.6	771.9	771.5	775.9	778.1	777.7	765.7	755.5	734.8	714.4
22.5°	714.4	727.7	733.4	737.0	746.3	751.1	762.6	758.2	755.5	740.1	722.8
25°	667.6	672.0	689.2	690.1	702.9	714.9	726.4	733.9	743.6	737.9	723.3
27.5°	607.0	617.2	629.5	638.8	641.5	665.8	684.8	699.0	721.1	722.8	718.0
30°	538.5	543.3	563.7	576.1	590.2	607.9	635.3	659.6	679.5	697.6	703.8
32.5°	454.9	474.8	486.8	501.8	514.2	545.5	579.1	610.5	633.5	664.0	677.3
35°	378.4	393.9	414.2	420.4	443.0	469.5	513.3	553.5	588.4	619.4	646.3
37.5°	315.2	327.6	349.3	359.0	372.2	406.3	443.0	492.9	534.9	573.0	606.6
40°	271.9	281.2	297.5	300.6	311.7	342.6	372.2	419.1	474.8	526.1	562.8
42.5°	242.3	246.7	257.7	261.7	268.8	289.6	316.1	360.3	412.0	465.1	516.8
45°	221.0	224.1	230.8	234.3	243.2	252.4	274.1	309.5	350.1	403.6	459.3
47.5°	202.0	206.0	208.7	210.9	215.7	225.9	240.1	266.1	305.0	354.1	408.1
50°	186.1	187.4	192.3	192.8	195.8	202.5	215.7	231.7	262.6	302.4	354.6
52.5°	170.2	171.5	174.6	177.7	179.0	184.4	193.2	206.5	229.4	260.8	307.3
55°	154.3	156.1	159.2	161.4	162.7	167.1	172.4	185.2	203.4	225.5	263.5
57.5°	138.4	142.4	143.2	144.6	146.8	151.6	156.5	164.0	178.2	198.5	226.4
60°	123.3	124.7	127.8	129.1	131.3	134.0	140.1	145.9	156.1	172.0	197.2
62.5°	107.9	111.0	112.3	113.6	115.4	118.5	122.5	128.7	137.5	150.3	170.2
65°	94.6	95.1	97.7	99.5	101.2	103.5	107.4	113.2	118.5	130.4	145.0
67.5°	81.8	82.7	83.6	85.3	87.5	89.7	93.3	96.4	103.0	111.0	122.5
70°	69.4	69.4	71.6	72.9	72.5	75.2	77.8	81.3	86.2	93.7	103.0
72.5°	58.4	57.9	59.7	60.1	61.0	62.8	64.5	68.1	70.7	76.5	83.6
75°	46.4	47.3	48.2	48.2	49.5	50.8	52.6	54.4	57.5	61.0	66.3
77.5°	36.7	36.7	37.6	38.0	39.3	38.9	40.7	42.4	44.7	47.7	51.7
80°	27.0	27.9	27.9	27.9	28.3	28.7	30.5	31.8	33.2	35.4	37.1
82.5°	19.0	19.0	19.9	19.9	19.9	20.8	20.8	21.2	22.1	23.4	24.8
85°	11.9	11.9	11.9	12.4	11.9	12.4	13.3	12.8	13.3	14.1	14.1
87.5°	5.7	5.7	5.7	5.7	5.7	6.2	5.7	6.2	6.6	6.6	6.6
90°	43.5	43.2	42.9	42.8	43.1	43.7	44.2	44.8	45.4	39.1	32.7
92.5°	41.5	41.5	41.5	41.5	41.4	41.1	40.8	40.5	40.2	39.9	39.6
95°	81.6	82.1	82.7	83.0	83.0	83.0	83.0	83.0	83.0	82.4	81.8
97.5°	129.7	129.7	129.7	129.7	129.7	129.7	129.7	129.7	129.7	128.5	127.4
100°	178.3	178.6	178.9	179.0	179.0	179.0	179.0	179.0	179.0	178.1	177.3
102.5°	232.8	233.1	233.4	233.5	233.4	233.1	232.8	232.5	232.2	231.0	229.9
105°	288.0	288.0	288.0	288.0	287.7	287.1	286.6	286.0	285.4	284.8	284.2
107.5°	341.5	342.9	344.4	345.1	345.0	344.7	344.4	344.1	343.8	343.8	343.8
110°	401.2	402.1	403.0	403.4	403.4	403.4	403.4	403.4	403.4	403.4	403.4

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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	459.1	459.6	460.2	460.5	460.9	461.8	462.7	463.5	464.4	464.7	465.0
115°	520.6	521.5	522.4	522.8	522.9	523.2	523.5	523.8	524.1	524.7	525.3
117.5°	577.7	578.5	579.4	579.8	580.2	581.1	582.0	582.8	583.7	585.1	586.6
120°	638.6	639.5	640.4	640.8	640.8	640.8	640.8	640.8	640.8	643.1	645.4
122.5°	697.8	698.3	698.9	699.2	699.6	700.5	701.4	702.2	703.1	704.5	706.0
125°	758.2	758.5	758.8	758.9	759.3	760.2	761.0	761.9	762.7	763.6	764.4
127.5°	813.7	814.6	815.5	815.9	816.5	817.6	818.8	819.9	821.1	822.3	823.4
130°	874.0	875.2	876.3	876.9	877.2	877.8	878.3	878.9	879.5	880.1	880.7
132.5°	930.5	931.4	932.3	932.7	933.4	934.9	936.3	937.8	939.2	938.9	938.6
135°	990.2	991.0	991.9	992.3	992.4	992.7	993.0	993.3	993.6	993.0	992.5
137.5°	1043.9	1045.1	1046.2	1046.8	1046.9	1047.2	1047.5	1047.8	1048.1	1047.5	1046.9
140°	1099.7	1100.9	1102.0	1102.6	1102.6	1102.6	1102.6	1102.6	1102.6	1101.2	1099.7
142.5°	1150.3	1151.5	1152.6	1153.2	1153.1	1152.8	1152.5	1152.2	1151.9	1151.0	1150.2
145°	1200.9	1202.1	1203.2	1203.8	1203.7	1203.4	1203.1	1202.8	1202.5	1200.8	1199.0
147.5°	1246.3	1247.5	1248.6	1249.2	1248.9	1248.3	1247.8	1247.2	1246.6	1245.4	1244.3
150°	1289.8	1290.7	1291.6	1292.0	1291.6	1290.7	1289.8	1289.0	1288.1	1286.9	1285.8
152.5°	1331.9	1333.1	1334.2	1334.8	1334.2	1333.1	1331.9	1330.8	1329.6	1328.2	1326.7
155°	1367.6	1368.5	1369.4	1369.8	1369.1	1367.6	1366.2	1364.7	1363.3	1362.5	1361.6
157.5°	1401.3	1402.7	1404.2	1404.9	1403.9	1401.9	1399.8	1397.8	1395.8	1395.2	1394.6
160°	1430.5	1431.7	1432.8	1433.4	1432.5	1430.8	1429.1	1427.3	1425.6	1425.3	1425.0
162.5°	1457.0	1458.4	1459.9	1460.6	1459.6	1457.6	1455.6	1453.6	1451.6	1451.3	1451.0
165°	1479.1	1480.5	1482.0	1482.7	1481.7	1479.7	1477.6	1475.6	1473.6	1473.6	1473.6
167.5°	1498.5	1500.0	1501.4	1502.1	1501.1	1499.1	1497.1	1495.1	1493.1	1493.1	1493.1
170°	1513.4	1515.1	1516.8	1517.7	1516.7	1514.7	1512.6	1510.6	1508.6	1508.9	1509.2
172.5°	1525.1	1526.8	1528.5	1529.4	1528.4	1526.4	1524.3	1522.3	1520.3	1520.6	1520.9
175°	1532.9	1534.6	1536.3	1537.2	1536.2	1534.2	1532.1	1530.1	1528.1	1528.7	1529.3
177.5°	1536.8	1538.5	1540.2	1541.1	1540.2	1538.5	1536.8	1535.0	1533.3	1533.9	1534.5
180°	1537.2	1537.2	1537.2	1537.2	1537.2	1537.2	1537.2	1537.2	1537.2	1537.2	1537.2

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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2
2.5°	590.2	588.0	586.7	587.5	584.9	578.3	578.3	580.5	577.8	575.2	571.2
5°	606.6	602.1	599.5	599.0	592.9	582.2	580.0	577.8	572.1	565.9	559.3
7.5°	622.5	614.5	610.1	607.0	598.2	584.5	578.7	573.8	564.6	555.3	546.9
10°	635.7	624.2	618.9	614.1	602.6	585.3	576.1	567.2	555.3	543.3	532.7
12.5°	646.3	633.1	626.5	619.4	605.2	582.7	571.2	557.0	545.1	529.2	518.6
15°	664.0	636.6	630.4	623.8	609.2	578.3	564.1	548.2	531.8	510.6	499.1
17.5°	678.2	641.5	641.0	626.9	607.9	576.5	554.8	534.1	516.4	495.2	477.0
20°	686.6	649.0	641.9	627.3	603.5	564.6	542.0	519.0	500.0	474.4	456.2
22.5°	693.7	659.6	641.0	623.4	594.2	560.6	527.4	505.8	479.7	451.8	434.6
25°	696.3	661.8	642.4	622.0	587.5	549.1	511.5	488.1	458.9	433.7	410.3
27.5°	696.7	661.4	637.5	616.3	578.3	534.1	495.6	470.8	438.6	409.4	386.0
30°	692.3	656.5	634.9	611.9	569.4	520.3	476.1	448.7	414.2	385.1	360.8
32.5°	679.1	646.8	629.1	603.9	557.9	501.3	457.6	427.1	390.8	362.1	338.6
35°	657.0	634.9	615.4	592.0	542.9	483.7	439.0	403.2	366.5	339.1	317.0
37.5°	629.5	617.6	599.5	576.5	525.7	467.7	418.2	378.4	341.7	315.2	293.6
40°	592.4	595.5	577.8	557.0	505.3	446.1	391.3	353.2	318.8	294.0	272.8
42.5°	552.2	565.0	554.8	534.9	482.8	422.2	371.4	329.4	295.8	270.1	252.4
45°	508.9	531.0	524.8	510.2	459.3	397.0	343.1	302.4	272.8	248.0	232.5
47.5°	461.6	492.9	492.9	482.3	433.3	371.8	318.8	277.2	248.0	230.3	215.3
50°	413.4	448.7	454.5	447.4	404.1	343.1	289.1	251.6	226.4	209.1	198.1
52.5°	363.0	404.1	414.7	411.2	373.1	315.7	264.8	228.1	205.1	190.1	180.4
55°	314.8	362.5	374.0	375.3	340.0	285.6	237.8	205.6	183.5	173.3	164.9
57.5°	269.2	315.2	328.0	330.2	306.4	258.2	212.6	184.4	164.5	156.1	149.4
60°	230.3	268.8	285.6	290.5	269.7	226.4	189.2	161.8	146.8	138.8	132.6
62.5°	198.5	229.4	247.1	248.5	239.2	198.5	164.9	141.9	129.1	122.0	118.9
65°	167.6	195.4	206.0	211.3	203.8	172.0	142.4	123.3	113.2	107.0	103.9
67.5°	142.8	160.5	169.3	176.4	168.9	145.0	121.1	105.7	98.1	92.0	90.2
70°	117.2	131.7	138.4	145.5	138.8	120.7	103.5	89.3	82.7	77.8	75.6
72.5°	93.7	105.2	111.4	115.8	111.9	96.8	82.7	72.9	68.1	64.5	63.2
75°	74.3	82.2	85.8	88.9	87.1	75.6	66.8	58.8	54.4	51.3	50.4
77.5°	56.6	62.3	66.3	67.2	65.0	57.5	50.0	45.1	41.6	39.8	38.9
80°	40.2	43.8	46.0	47.3	45.1	42.0	36.7	33.2	30.1	27.9	27.4
82.5°	27.0	28.7	30.5	30.1	29.2	26.5	23.4	21.7	20.3	18.6	18.6
85°	15.5	15.9	16.8	17.2	16.8	15.0	13.3	12.4	11.5	10.2	10.2
87.5°	6.6	7.1	7.1	7.5	6.6	6.6	5.7	4.9	4.9	4.4	4.0
90°	26.4	20.1	16.9	15.2	11.7	8.2	4.8	1.3	4.8	8.2	11.7
92.5°	39.3	39.0	38.9	37.7	35.4	33.1	30.8	28.5	30.8	33.1	35.4
95°	81.3	80.7	80.4	79.0	76.1	73.2	70.4	67.5	70.4	73.2	76.1
97.5°	126.2	125.1	124.5	123.2	120.6	118.1	115.5	112.9	115.5	118.1	120.6
100°	176.4	175.5	175.1	173.9	171.6	169.3	167.0	164.7	167.0	169.3	171.6
102.5°	228.7	227.6	227.0	226.1	224.4	222.7	220.9	219.2	220.9	222.7	224.4
105°	283.7	283.1	282.8	282.4	281.5	280.6	279.8	278.9	279.8	280.6	281.5
107.5°	343.8	343.8	343.8	343.2	342.1	340.9	339.8	338.6	339.8	340.9	342.1
110°	403.4	403.4	403.4	402.5	400.8	399.1	397.3	395.6	397.3	399.1	400.8

TEST NUMBER: P1029302

CATALOG NUMBER: S122DIW-B290D1240UB2750-4F0-XX-W2A-A1_3000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	465.3	465.6	465.7	464.8	463.1	461.4	459.6	457.9	459.6	461.4	463.1
115°	525.8	526.4	526.7	525.8	524.1	522.4	520.6	518.9	520.6	522.4	524.1
117.5°	588.0	589.5	590.2	589.0	586.7	584.4	582.1	579.8	582.1	584.4	586.7
120°	647.7	650.0	651.2	650.0	647.7	645.4	643.1	640.8	643.1	645.4	647.7
122.5°	707.4	708.9	709.6	708.2	705.3	702.4	699.5	696.6	699.5	702.4	705.3
125°	765.3	766.2	766.6	765.3	762.7	760.2	757.6	755.0	757.6	760.2	762.7
127.5°	824.6	825.7	826.3	824.7	821.5	818.4	815.2	812.0	815.2	818.4	821.5
130°	881.2	881.8	882.1	880.2	876.5	872.7	869.0	865.2	869.0	872.7	876.5
132.5°	938.3	938.0	937.9	936.5	933.6	930.7	927.8	924.9	927.8	930.7	933.6
135°	991.9	991.4	991.1	989.5	986.3	983.2	980.0	976.8	980.0	983.2	986.3
137.5°	1046.4	1045.8	1045.5	1044.2	1041.6	1039.1	1036.5	1033.9	1036.5	1039.1	1041.6
140°	1098.3	1096.8	1096.1	1094.8	1092.2	1089.6	1087.0	1084.4	1087.0	1089.6	1092.2
142.5°	1149.3	1148.4	1148.0	1146.7	1144.1	1141.5	1138.9	1136.3	1138.9	1141.5	1144.1
145°	1197.3	1195.6	1194.7	1193.7	1191.7	1189.6	1187.6	1185.6	1187.6	1189.6	1191.7
147.5°	1243.1	1242.0	1241.4	1240.1	1237.5	1234.9	1232.3	1229.7	1232.3	1234.9	1237.5
150°	1284.6	1283.5	1282.9	1282.0	1280.3	1278.6	1276.8	1275.1	1276.8	1278.6	1280.3
152.5°	1325.3	1323.8	1323.1	1322.2	1320.5	1318.8	1317.0	1315.3	1317.0	1318.8	1320.5
155°	1360.8	1359.9	1359.5	1359.1	1358.2	1357.3	1356.5	1355.6	1356.5	1357.3	1358.2
157.5°	1394.1	1393.5	1393.2	1392.9	1392.3	1391.8	1391.2	1390.6	1391.2	1391.8	1392.3
160°	1424.7	1424.4	1424.3	1424.0	1423.4	1422.9	1422.3	1421.7	1422.3	1422.9	1423.4
162.5°	1450.7	1450.4	1450.3	1450.3	1450.3	1450.3	1450.3	1450.3	1450.3	1450.3	1450.3
165°	1473.6	1473.6	1473.6	1473.7	1474.0	1474.3	1474.6	1474.9	1474.6	1474.3	1474.0
167.5°	1493.1	1493.1	1493.1	1493.5	1494.4	1495.3	1496.1	1497.0	1496.1	1495.3	1494.4
170°	1509.5	1509.8	1509.9	1510.3	1511.2	1512.1	1512.9	1513.8	1512.9	1512.1	1511.2
172.5°	1521.2	1521.5	1521.6	1522.0	1522.9	1523.8	1524.6	1525.5	1524.6	1523.8	1522.9
175°	1529.8	1530.4	1530.7	1531.1	1532.0	1532.9	1533.7	1534.6	1533.7	1532.9	1532.0
177.5°	1535.0	1535.6	1535.9	1536.3	1537.2	1538.1	1538.9	1539.8	1538.9	1538.1	1537.2
180°	1537.2	1537.2	1537.2	1537.2	1537.2	1537.2	1537.2	1537.2	1537.2	1537.2	1537.2

TEST NUMBER: P1029302

CATALOG NUMBER: S122DIW-B290D1240UB2750-4F0-XX-W2A-A1_3000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2
2.5°	569.0	571.2	570.7	566.3	561.5	557.5	550.0	550.9	548.2	548.6	551.3
5°	554.8	554.8	553.1	546.9	538.9	534.5	526.1	523.9	518.6	518.1	517.7
7.5°	539.8	537.6	535.4	526.5	516.8	509.7	498.2	495.6	490.3	486.8	485.0
10°	522.1	519.0	514.6	504.4	492.5	483.7	471.7	468.2	458.0	453.6	450.9
12.5°	502.7	500.9	493.8	485.4	466.0	456.2	439.0	442.5	432.4	423.5	422.2
15°	483.2	476.6	472.6	458.9	435.5	431.0	417.3	410.3	401.0	393.9	393.9
17.5°	464.2	454.0	445.2	430.6	413.4	401.0	390.8	387.3	375.8	368.7	367.4
20°	439.0	427.5	425.3	404.5	392.6	378.9	369.2	360.3	351.9	348.8	346.6
22.5°	415.1	401.9	398.3	380.6	368.7	355.0	345.3	339.1	332.9	330.7	326.7
25°	389.5	381.5	376.2	357.2	344.0	331.1	324.5	320.1	314.3	313.9	311.2
27.5°	364.7	357.2	351.9	333.8	324.1	312.1	306.8	302.0	298.9	297.5	296.2
30°	343.5	335.1	328.9	315.7	303.7	294.0	289.6	286.5	284.7	282.5	282.1
32.5°	320.1	315.2	306.8	296.6	287.4	278.1	275.4	273.2	270.6	269.7	269.2
35°	300.2	293.6	288.2	276.8	272.8	264.8	261.7	260.0	256.4	255.5	254.6
37.5°	280.7	274.5	268.8	261.7	254.2	249.8	248.0	245.4	243.6	244.0	243.2
40°	261.3	256.4	252.0	244.5	240.1	237.8	234.3	231.7	230.8	231.2	230.8
42.5°	242.3	237.8	235.2	229.4	225.0	222.8	220.6	218.0	219.3	219.3	220.6
45°	225.0	221.0	219.3	214.9	212.2	208.7	206.5	206.0	207.8	207.3	207.3
47.5°	207.3	206.0	203.8	199.8	196.3	194.1	193.6	193.6	195.4	196.3	195.8
50°	193.6	191.0	188.3	185.2	182.6	181.7	180.4	181.3	183.0	183.0	183.9
52.5°	176.4	174.6	173.7	171.1	169.3	169.3	169.3	169.8	171.1	172.4	172.0
55°	161.4	160.0	159.2	157.8	155.6	156.1	155.6	156.5	157.8	159.2	160.0
57.5°	145.5	145.0	144.1	141.9	141.9	141.5	142.8	143.2	145.5	146.3	147.7
60°	131.3	130.0	130.0	128.2	128.2	128.2	129.5	130.9	132.6	133.1	134.0
62.5°	116.3	116.3	115.8	114.5	114.5	115.8	116.3	118.0	118.9	118.9	120.3
65°	102.1	101.7	101.2	101.7	102.1	102.1	103.5	104.3	105.2	105.7	106.1
67.5°	88.0	87.5	88.4	88.0	88.9	90.6	90.2	91.5	92.8	92.8	93.3
70°	74.7	75.6	75.2	76.0	75.6	76.5	77.8	78.3	78.3	78.7	80.0
72.5°	62.3	62.3	62.3	61.9	62.3	63.2	64.1	64.5	65.4	65.9	67.2
75°	50.4	50.4	49.5	50.4	50.4	51.3	52.2	52.2	52.2	53.1	54.4
77.5°	38.0	38.5	38.0	38.9	38.9	39.3	40.2	39.8	40.7	41.1	41.6
80°	27.9	27.4	27.4	27.4	27.9	27.9	28.7	29.2	29.2	30.5	29.6
82.5°	17.7	18.1	17.7	18.1	18.1	18.6	18.1	18.6	19.0	19.9	19.5
85°	10.2	9.7	9.7	10.2	9.7	9.7	10.2	9.7	10.2	9.7	10.2
87.5°	4.0	3.5	3.5	3.5	3.5	3.1	3.1	2.7	2.7	2.7	2.2
90°	15.2	16.9	20.1	26.4	32.7	39.1	45.4	44.8	44.2	43.7	43.1
92.5°	37.7	38.9	39.0	39.3	39.6	39.9	40.2	40.5	40.8	41.1	41.4
95°	79.0	80.4	80.7	81.3	81.8	82.4	83.0	83.0	83.0	83.0	83.0
97.5°	123.2	124.5	125.1	126.2	127.4	128.5	129.7	129.7	129.7	129.7	129.7
100°	173.9	175.1	175.5	176.4	177.3	178.1	179.0	179.0	179.0	179.0	179.0
102.5°	226.1	227.0	227.6	228.7	229.9	231.0	232.2	232.5	232.8	233.1	233.4
105°	282.4	282.8	283.1	283.7	284.2	284.8	285.4	286.0	286.6	287.1	287.7
107.5°	343.2	343.8	343.8	343.8	343.8	343.8	343.8	344.1	344.4	344.7	345.0
110°	402.5	403.4	403.4	403.4	403.4	403.4	403.4	403.4	403.4	403.4	403.4

TEST NUMBER: P1029302

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CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	464.8	465.7	465.6	465.3	465.0	464.7	464.4	463.5	462.7	461.8	460.9
115°	525.8	526.7	526.4	525.8	525.3	524.7	524.1	523.8	523.5	523.2	522.9
117.5°	589.0	590.2	589.5	588.0	586.6	585.1	583.7	582.8	582.0	581.1	580.2
120°	650.0	651.2	650.0	647.7	645.4	643.1	640.8	640.8	640.8	640.8	640.8
122.5°	708.2	709.6	708.9	707.4	706.0	704.5	703.1	702.2	701.4	700.5	699.6
125°	765.3	766.6	766.2	765.3	764.4	763.6	762.7	761.9	761.0	760.2	759.3
127.5°	824.7	826.3	825.7	824.6	823.4	822.3	821.1	819.9	818.8	817.6	816.5
130°	880.2	882.1	881.8	881.2	880.7	880.1	879.5	878.9	878.3	877.8	877.2
132.5°	936.5	937.9	938.0	938.3	938.6	938.9	939.2	937.8	936.3	934.9	933.4
135°	989.5	991.1	991.4	991.9	992.5	993.0	993.6	993.3	993.0	992.7	992.4
137.5°	1044.2	1045.5	1045.8	1046.4	1046.9	1047.5	1048.1	1047.8	1047.5	1047.2	1046.9
140°	1094.8	1096.1	1096.8	1098.3	1099.7	1101.2	1102.6	1102.6	1102.6	1102.6	1102.6
142.5°	1146.7	1148.0	1148.4	1149.3	1150.2	1151.0	1151.9	1152.2	1152.5	1152.8	1153.1
145°	1193.7	1194.7	1195.6	1197.3	1199.0	1200.8	1202.5	1202.8	1203.1	1203.4	1203.7
147.5°	1240.1	1241.4	1242.0	1243.1	1244.3	1245.4	1246.6	1247.2	1247.8	1248.3	1248.9
150°	1282.0	1282.9	1283.5	1284.6	1285.8	1286.9	1288.1	1289.0	1289.8	1290.7	1291.6
152.5°	1322.2	1323.1	1323.8	1325.3	1326.7	1328.2	1329.6	1330.8	1331.9	1333.1	1334.2
155°	1359.1	1359.5	1359.9	1360.8	1361.6	1362.5	1363.3	1364.7	1366.2	1367.6	1369.1
157.5°	1392.9	1393.2	1393.5	1394.1	1394.6	1395.2	1395.8	1397.8	1399.8	1401.9	1403.9
160°	1424.0	1424.3	1424.4	1424.7	1425.0	1425.3	1425.6	1427.3	1429.1	1430.8	1432.5
162.5°	1450.3	1450.3	1450.4	1450.7	1451.0	1451.3	1451.6	1453.6	1455.6	1457.6	1459.6
165°	1473.7	1473.6	1473.6	1473.6	1473.6	1473.6	1473.6	1475.6	1477.6	1479.7	1481.7
167.5°	1493.5	1493.1	1493.1	1493.1	1493.1	1493.1	1493.1	1495.1	1497.1	1499.1	1501.1
170°	1510.3	1509.9	1509.8	1509.5	1509.2	1508.9	1508.6	1510.6	1512.6	1514.7	1516.7
172.5°	1522.0	1521.6	1521.5	1521.2	1520.9	1520.6	1520.3	1522.3	1524.3	1526.4	1528.4
175°	1531.1	1530.7	1530.4	1529.8	1529.3	1528.7	1528.1	1530.1	1532.1	1534.2	1536.2
177.5°	1536.3	1535.9	1535.6	1535.0	1534.5	1533.9	1533.3	1535.0	1536.8	1538.5	1540.2
180°	1537.2	1537.2	1537.2	1537.2	1537.2	1537.2	1537.2	1537.2	1537.2	1537.2	1537.2

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2
2.5°	548.2	549.5	546.4	545.5	546.4	543.3	544.2	545.1	545.1	546.4	547.3
5°	516.4	514.6	511.5	510.6	509.7	511.1	510.2	511.5	511.9	515.0	515.5
7.5°	485.0	482.3	479.7	477.0	476.1	473.9	476.1	476.1	479.2	478.4	480.6
10°	447.8	447.4	443.9	442.5	440.8	437.2	442.1	440.8	443.0	447.0	447.8
12.5°	420.4	415.6	417.8	411.6	413.8	410.3	410.7	410.7	414.2	414.7	413.8
15°	394.4	390.4	384.6	382.0	380.6	378.9	384.6	385.1	382.4	388.6	386.4
17.5°	367.8	367.8	362.5	361.2	357.7	359.4	358.5	359.0	358.1	362.5	364.7
20°	344.8	342.6	340.9	341.3	336.9	336.0	335.1	336.0	339.1	342.2	343.1
22.5°	326.3	324.9	320.5	321.4	317.9	319.2	318.3	320.5	321.0	321.0	324.1
25°	308.6	306.8	307.3	305.5	304.2	304.2	302.8	304.2	305.9	306.8	307.3
27.5°	295.3	294.0	291.8	290.5	291.3	289.1	290.9	292.2	292.2	291.3	292.2
30°	279.4	280.3	280.3	275.9	277.6	276.8	278.1	279.0	279.0	279.4	278.5
32.5°	268.8	266.1	265.7	265.3	265.3	263.5	263.5	264.8	265.3	265.7	267.0
35°	254.6	254.6	252.4	253.8	252.0	252.4	252.0	252.4	253.3	252.0	253.3
37.5°	241.8	242.3	241.4	242.3	242.7	241.8	240.9	242.7	241.8	241.8	240.9
40°	230.8	230.3	230.8	230.8	230.8	231.2	230.3	230.3	230.3	229.4	228.6
42.5°	221.5	218.8	219.7	220.2	218.8	218.8	219.3	218.8	220.2	217.5	217.5
45°	208.2	207.3	207.8	207.8	208.7	207.3	208.2	208.7	207.3	206.9	206.0
47.5°	196.3	197.2	196.3	197.2	197.2	198.1	196.3	196.7	197.2	195.4	194.1
50°	184.4	184.4	185.7	185.2	185.7	184.8	184.8	184.4	184.8	183.9	182.6
52.5°	173.3	172.0	174.2	173.7	173.3	172.9	172.4	172.9	172.0	171.1	171.1
55°	159.6	159.6	160.9	161.4	161.4	160.5	159.6	160.0	159.6	159.2	158.7
57.5°	148.5	146.8	147.7	148.1	148.1	146.8	147.7	146.8	146.8	147.2	145.9
60°	134.4	134.4	133.5	134.8	134.8	134.0	134.0	134.4	133.5	133.1	132.6
62.5°	119.4	119.8	121.1	121.6	122.0	121.1	120.3	120.7	120.7	119.4	119.8
65°	106.5	107.4	109.2	108.8	107.9	108.3	107.4	107.9	106.5	107.0	105.7
67.5°	94.2	93.7	94.2	94.2	95.1	94.6	93.7	93.7	93.3	94.6	93.3
70°	80.9	80.9	80.9	80.9	81.3	81.8	80.9	80.0	80.5	79.6	79.1
72.5°	67.2	67.6	67.2	68.1	66.8	67.6	67.6	67.2	66.8	66.8	66.8
75°	54.4	55.3	53.9	54.4	53.9	54.8	54.4	54.4	53.5	53.1	53.5
77.5°	41.6	42.0	41.1	41.6	41.1	41.6	41.6	41.1	41.1	41.1	41.1
80°	29.6	30.1	29.6	29.2	28.7	29.6	28.7	29.2	29.6	29.2	30.1
82.5°	19.0	19.0	18.6	19.0	18.1	18.1	18.6	18.6	18.1	19.0	18.1
85°	9.3	9.3	10.2	9.3	8.8	8.8	8.8	9.3	8.8	9.7	9.3
87.5°	2.2	1.8	2.2	2.2	1.8	1.8	2.2	1.8	2.2	2.7	1.8
90°	42.8	42.9	43.2	43.5	43.8	44.1	43.8	43.5	43.2	42.9	42.8
92.5°	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5	41.5
95°	83.0	82.7	82.1	81.6	81.0	80.4	81.0	81.6	82.1	82.7	83.0
97.5°	129.7	129.7	129.7	129.7	129.7	129.7	129.7	129.7	129.7	129.7	129.7
100°	179.0	178.9	178.6	178.3	178.0	177.7	178.0	178.3	178.6	178.9	179.0
102.5°	233.5	233.4	233.1	232.8	232.5	232.2	232.5	232.8	233.1	233.4	233.5
105°	288.0	288.0	288.0	288.0	288.0	288.0	288.0	288.0	288.0	288.0	288.0
107.5°	345.1	344.4	342.9	341.5	340.0	338.6	340.0	341.5	342.9	344.4	345.1
110°	403.4	403.0	402.1	401.2	400.4	399.5	400.4	401.2	402.1	403.0	403.4

TEST NUMBER: P1029302

CATALOG NUMBER: S122DIW-B290D1240UB2750-4F0-XX-W2A-A1_3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	460.5	460.2	459.6	459.1	458.5	457.9	458.5	459.1	459.6	460.2	460.5
115°	522.8	522.4	521.5	520.6	519.8	518.9	519.8	520.6	521.5	522.4	522.8
117.5°	579.8	579.4	578.5	577.7	576.8	576.0	576.8	577.7	578.5	579.4	579.8
120°	640.8	640.4	639.5	638.6	637.8	636.9	637.8	638.6	639.5	640.4	640.8
122.5°	699.2	698.9	698.3	697.8	697.2	696.6	697.2	697.8	698.3	698.9	699.2
125°	758.9	758.8	758.5	758.2	757.9	757.6	757.9	758.2	758.5	758.8	758.9
127.5°	815.9	815.5	814.6	813.7	812.9	812.0	812.9	813.7	814.6	815.5	815.9
130°	876.9	876.3	875.2	874.0	872.9	871.7	872.9	874.0	875.2	876.3	876.9
132.5°	932.7	932.3	931.4	930.5	929.7	928.8	929.7	930.5	931.4	932.3	932.7
135°	992.3	991.9	991.0	990.2	989.3	988.5	989.3	990.2	991.0	991.9	992.3
137.5°	1046.8	1046.2	1045.1	1043.9	1042.8	1041.6	1042.8	1043.9	1045.1	1046.2	1046.8
140°	1102.6	1102.0	1100.9	1099.7	1098.6	1097.4	1098.6	1099.7	1100.9	1102.0	1102.6
142.5°	1153.2	1152.6	1151.5	1150.3	1149.2	1148.0	1149.2	1150.3	1151.5	1152.6	1153.2
145°	1203.8	1203.2	1202.1	1200.9	1199.8	1198.6	1199.8	1200.9	1202.1	1203.2	1203.8
147.5°	1249.2	1248.6	1247.5	1246.3	1245.2	1244.0	1245.2	1246.3	1247.5	1248.6	1249.2
150°	1292.0	1291.6	1290.7	1289.8	1289.0	1288.1	1289.0	1289.8	1290.7	1291.6	1292.0
152.5°	1334.8	1334.2	1333.1	1331.9	1330.8	1329.6	1330.8	1331.9	1333.1	1334.2	1334.8
155°	1369.8	1369.4	1368.5	1367.6	1366.8	1365.9	1366.8	1367.6	1368.5	1369.4	1369.8
157.5°	1404.9	1404.2	1402.7	1401.3	1399.8	1398.4	1399.8	1401.3	1402.7	1404.2	1404.9
160°	1433.4	1432.8	1431.7	1430.5	1429.4	1428.2	1429.4	1430.5	1431.7	1432.8	1433.4
162.5°	1460.6	1459.9	1458.4	1457.0	1455.5	1454.1	1455.5	1457.0	1458.4	1459.9	1460.6
165°	1482.7	1482.0	1480.5	1479.1	1477.6	1476.2	1477.6	1479.1	1480.5	1482.0	1482.7
167.5°	1502.1	1501.4	1500.0	1498.5	1497.1	1495.7	1497.1	1498.5	1500.0	1501.4	1502.1
170°	1517.7	1516.8	1515.1	1513.4	1511.6	1509.9	1511.6	1513.4	1515.1	1516.8	1517.7
172.5°	1529.4	1528.5	1526.8	1525.1	1523.3	1521.6	1523.3	1525.1	1526.8	1528.5	1529.4
175°	1537.2	1536.3	1534.6	1532.9	1531.1	1529.4	1531.1	1532.9	1534.6	1536.3	1537.2
177.5°	1541.1	1540.2	1538.5	1536.8	1535.0	1533.3	1535.0	1536.8	1538.5	1540.2	1541.1
180°	1537.2	1537.2	1537.2	1537.2	1537.2	1537.2	1537.2	1537.2	1537.2	1537.2	1537.2

TEST NUMBER: P1029302

CATALOG NUMBER: S122DIW-B290D1240UB2750-4F0-XX-W2A-A1_3000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2
2.5°	546.0	549.5	548.2	543.3	549.1	549.1	553.1	553.1	557.9	559.7	562.3
5°	515.0	517.7	519.9	517.7	521.7	527.9	531.4	534.5	541.1	543.8	547.8
7.5°	481.9	486.8	489.0	489.0	495.6	502.7	509.7	514.2	523.4	527.0	531.0
10°	449.6	455.4	459.8	459.3	470.4	474.8	483.7	493.8	503.1	508.4	514.2
12.5°	415.6	418.7	424.9	433.7	436.4	444.3	454.5	467.3	484.1	489.0	497.4
15°	387.3	395.7	400.5	404.5	410.7	418.2	429.3	441.7	458.5	469.1	477.9
17.5°	363.4	374.5	377.6	376.7	384.6	396.1	408.9	418.2	433.3	446.1	454.5
20°	344.0	348.4	353.7	355.9	362.1	374.5	386.8	397.4	409.8	420.0	429.7
22.5°	324.5	328.0	332.5	336.4	341.3	348.4	360.3	373.6	385.5	395.2	406.3
25°	308.6	310.8	314.8	317.9	323.2	328.0	336.4	351.0	365.2	370.9	380.6
27.5°	293.1	294.9	297.5	301.1	303.7	308.6	316.1	328.0	342.6	348.4	361.6
30°	279.4	280.7	283.4	285.2	286.5	292.2	298.0	307.3	318.3	326.3	336.0
32.5°	266.6	267.9	270.6	271.0	272.8	275.9	281.2	289.6	299.3	305.9	314.3
35°	252.4	253.3	256.0	256.9	258.2	260.8	264.8	271.0	279.8	284.7	292.2
37.5°	241.4	240.9	242.7	244.0	245.8	247.1	248.5	254.6	261.3	265.7	271.4
40°	229.4	228.6	229.0	230.8	231.7	233.4	233.4	239.6	244.0	247.6	252.0
42.5°	217.5	217.1	216.2	217.1	218.0	218.4	218.8	223.3	227.7	230.8	235.6
45°	205.6	205.1	204.2	204.7	204.7	205.6	206.9	208.7	211.8	214.4	217.1
47.5°	194.5	193.6	192.3	191.9	192.8	192.8	192.8	194.5	197.6	198.5	201.2
50°	183.0	181.7	179.9	179.0	179.0	178.6	179.5	179.9	182.6	183.5	185.7
52.5°	170.6	169.8	168.0	166.2	166.7	165.8	166.2	166.7	167.6	168.9	170.2
55°	158.3	156.5	155.2	154.7	153.4	153.4	152.1	153.9	153.4	153.9	155.6
57.5°	146.3	144.6	142.4	141.5	140.1	139.7	138.8	138.4	138.8	140.1	141.5
60°	132.2	131.3	130.0	128.7	127.8	126.4	125.6	125.6	125.1	125.1	125.6
62.5°	118.5	118.0	116.3	115.8	114.9	114.1	112.7	111.9	111.9	112.7	113.2
65°	105.2	104.8	103.5	103.0	100.8	99.9	99.5	99.0	98.1	98.1	98.1
67.5°	92.8	91.5	91.5	89.3	87.5	86.7	85.8	85.3	85.3	85.3	85.8
70°	79.1	79.1	77.8	76.5	74.7	75.2	73.8	72.5	72.5	71.6	72.1
72.5°	65.9	65.4	64.1	63.7	62.3	61.0	60.1	61.0	59.7	59.2	59.7
75°	53.1	52.6	51.7	50.8	51.3	50.0	48.6	48.2	48.2	47.3	47.3
77.5°	40.7	41.6	39.8	39.3	38.5	37.6	37.1	36.7	36.7	36.7	37.6
80°	28.3	28.7	28.7	27.9	28.3	27.0	27.0	27.0	25.6	26.1	26.5
82.5°	18.1	18.1	17.7	18.1	17.7	17.7	17.2	17.2	16.8	16.8	17.2
85°	10.2	9.7	9.3	10.2	9.7	9.7	9.3	9.3	9.3	9.3	9.3
87.5°	2.2	2.7	2.7	2.7	2.7	3.1	3.1	3.1	3.5	3.5	3.5
90°	43.1	43.7	44.2	44.8	45.4	39.1	32.7	26.4	20.1	16.9	15.2
92.5°	41.4	41.1	40.8	40.5	40.2	39.9	39.6	39.3	39.0	38.9	37.7
95°	83.0	83.0	83.0	83.0	83.0	82.4	81.8	81.3	80.7	80.4	79.0
97.5°	129.7	129.7	129.7	129.7	129.7	128.5	127.4	126.2	125.1	124.5	123.2
100°	179.0	179.0	179.0	179.0	179.0	178.1	177.3	176.4	175.5	175.1	173.9
102.5°	233.4	233.1	232.8	232.5	232.2	231.0	229.9	228.7	227.6	227.0	226.1
105°	287.7	287.1	286.6	286.0	285.4	284.8	284.2	283.7	283.1	282.8	282.4
107.5°	345.0	344.7	344.4	344.1	343.8	343.8	343.8	343.8	343.8	343.8	343.2
110°	403.4	403.4	403.4	403.4	403.4	403.4	403.4	403.4	403.4	403.4	402.5

TEST NUMBER: P1029302

CATALOG NUMBER: S122DIW-B290D1240UB2750-4F0-XX-W2A-A1_3000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	460.9	461.8	462.7	463.5	464.4	464.7	465.0	465.3	465.6	465.7	464.8
115°	522.9	523.2	523.5	523.8	524.1	524.7	525.3	525.8	526.4	526.7	525.8
117.5°	580.2	581.1	582.0	582.8	583.7	585.1	586.6	588.0	589.5	590.2	589.0
120°	640.8	640.8	640.8	640.8	640.8	643.1	645.4	647.7	650.0	651.2	650.0
122.5°	699.6	700.5	701.4	702.2	703.1	704.5	706.0	707.4	708.9	709.6	708.2
125°	759.3	760.2	761.0	761.9	762.7	763.6	764.4	765.3	766.2	766.6	765.3
127.5°	816.5	817.6	818.8	819.9	821.1	822.3	823.4	824.6	825.7	826.3	824.7
130°	877.2	877.8	878.3	878.9	879.5	880.1	880.7	881.2	881.8	882.1	880.2
132.5°	933.4	934.9	936.3	937.8	939.2	938.9	938.6	938.3	938.0	937.9	936.5
135°	992.4	992.7	993.0	993.3	993.6	993.0	992.5	991.9	991.4	991.1	989.5
137.5°	1046.9	1047.2	1047.5	1047.8	1048.1	1047.5	1046.9	1046.4	1045.8	1045.5	1044.2
140°	1102.6	1102.6	1102.6	1102.6	1102.6	1101.2	1099.7	1098.3	1096.8	1096.1	1094.8
142.5°	1153.1	1152.8	1152.5	1152.2	1151.9	1151.0	1150.2	1149.3	1148.4	1148.0	1146.7
145°	1203.7	1203.4	1203.1	1202.8	1202.5	1200.8	1199.0	1197.3	1195.6	1194.7	1193.7
147.5°	1248.9	1248.3	1247.8	1247.2	1246.6	1245.4	1244.3	1243.1	1242.0	1241.4	1240.1
150°	1291.6	1290.7	1289.8	1289.0	1288.1	1286.9	1285.8	1284.6	1283.5	1282.9	1282.0
152.5°	1334.2	1333.1	1331.9	1330.8	1329.6	1328.2	1326.7	1325.3	1323.8	1323.1	1322.2
155°	1369.1	1367.6	1366.2	1364.7	1363.3	1362.5	1361.6	1360.8	1359.9	1359.5	1359.1
157.5°	1403.9	1401.9	1399.8	1397.8	1395.8	1395.2	1394.6	1394.1	1393.5	1393.2	1392.9
160°	1432.5	1430.8	1429.1	1427.3	1425.6	1425.3	1425.0	1424.7	1424.4	1424.3	1424.0
162.5°	1459.6	1457.6	1455.6	1453.6	1451.6	1451.3	1451.0	1450.7	1450.4	1450.3	1450.3
165°	1481.7	1479.7	1477.6	1475.6	1473.6	1473.6	1473.6	1473.6	1473.6	1473.6	1473.7
167.5°	1501.1	1499.1	1497.1	1495.1	1493.1	1493.1	1493.1	1493.1	1493.1	1493.1	1493.5
170°	1516.7	1514.7	1512.6	1510.6	1508.6	1508.9	1509.2	1509.5	1509.8	1509.9	1510.3
172.5°	1528.4	1526.4	1524.3	1522.3	1520.3	1520.6	1520.9	1521.2	1521.5	1521.6	1522.0
175°	1536.2	1534.2	1532.1	1530.1	1528.1	1528.7	1529.3	1529.8	1530.4	1530.7	1531.1
177.5°	1540.2	1538.5	1536.8	1535.0	1533.3	1533.9	1534.5	1535.0	1535.6	1535.9	1536.3
180°	1537.2	1537.2	1537.2	1537.2	1537.2	1537.2	1537.2	1537.2	1537.2	1537.2	1537.2

TEST NUMBER: P1029302

CATALOG NUMBER: S122DIW-B290D1240UB2750-4F0-XX-W2A-A1_3000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	575.2	575.2	575.2	575.2
2.5°	564.6	564.6	571.2	578.3
5°	552.2	555.3	565.9	575.6
7.5°	540.2	545.5	558.8	571.2
10°	525.7	532.7	549.1	563.7
12.5°	511.5	518.1	537.1	553.5
15°	491.6	500.0	520.3	540.7
17.5°	471.7	480.1	504.9	528.7
20°	448.3	459.3	487.2	519.0
22.5°	426.6	440.3	471.3	496.9
25°	402.8	424.0	452.7	485.9
27.5°	381.5	402.8	431.9	465.5
30°	357.7	379.3	409.4	440.3
32.5°	334.7	354.6	383.7	421.8
35°	310.8	329.8	358.1	396.6
37.5°	289.1	307.7	338.6	374.0
40°	267.9	287.4	313.9	349.3
42.5°	248.0	265.3	289.1	324.5
45°	229.9	242.3	264.4	297.5
47.5°	210.9	221.9	242.3	275.4
50°	193.2	202.5	220.2	251.1
52.5°	176.0	183.9	200.3	225.0
55°	160.5	168.0	179.9	204.2
57.5°	144.6	150.3	161.8	181.3
60°	129.1	134.4	143.7	159.6
62.5°	113.6	118.0	126.9	139.7
65°	99.9	103.5	110.1	121.1
67.5°	86.7	88.9	94.2	103.0
70°	73.8	75.6	80.0	87.1
72.5°	60.1	61.9	66.8	71.6
75°	48.6	49.1	52.6	56.6
77.5°	38.0	37.6	40.2	43.3
80°	26.1	27.4	29.6	30.9
82.5°	17.7	18.1	19.0	19.9
85°	9.7	10.2	10.2	11.5
87.5°	4.0	4.4	4.4	4.9
90°	11.7	8.2	4.8	1.3
92.5°	35.4	33.1	30.8	28.5
95°	76.1	73.2	70.4	67.5
97.5°	120.6	118.1	115.5	112.9
100°	171.6	169.3	167.0	164.7
102.5°	224.4	222.7	220.9	219.2
105°	281.5	280.6	279.8	278.9
107.5°	342.1	340.9	339.8	338.6
110°	400.8	399.1	397.3	395.6

TEST NUMBER: P1029302

CATALOG NUMBER: S122DIW-B290D1240UB2750-4F0-XX-W2A-A1_3000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	463.1	461.4	459.6	457.9
115°	524.1	522.4	520.6	518.9
117.5°	586.7	584.4	582.1	579.8
120°	647.7	645.4	643.1	640.8
122.5°	705.3	702.4	699.5	696.6
125°	762.7	760.2	757.6	755.0
127.5°	821.5	818.4	815.2	812.0
130°	876.5	872.7	869.0	865.2
132.5°	933.6	930.7	927.8	924.9
135°	986.3	983.2	980.0	976.8
137.5°	1041.6	1039.1	1036.5	1033.9
140°	1092.2	1089.6	1087.0	1084.4
142.5°	1144.1	1141.5	1138.9	1136.3
145°	1191.7	1189.6	1187.6	1185.6
147.5°	1237.5	1234.9	1232.3	1229.7
150°	1280.3	1278.6	1276.8	1275.1
152.5°	1320.5	1318.8	1317.0	1315.3
155°	1358.2	1357.3	1356.5	1355.6
157.5°	1392.3	1391.8	1391.2	1390.6
160°	1423.4	1422.9	1422.3	1421.7
162.5°	1450.3	1450.3	1450.3	1450.3
165°	1474.0	1474.3	1474.6	1474.9
167.5°	1494.4	1495.3	1496.1	1497.0
170°	1511.2	1512.1	1512.9	1513.8
172.5°	1522.9	1523.8	1524.6	1525.5
175°	1532.0	1532.9	1533.7	1534.6
177.5°	1537.2	1538.1	1538.9	1539.8
180°	1537.2	1537.2	1537.2	1537.2

(END OF REPORT)