

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: P1029362

Luminaire Tested: S122DIW-B290D435UB2750-4F0-XX-W2A-A1_3000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029362
REPORT IS A COMBINATION OF REPORTS P985658 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B290D435UB2750-4F0-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

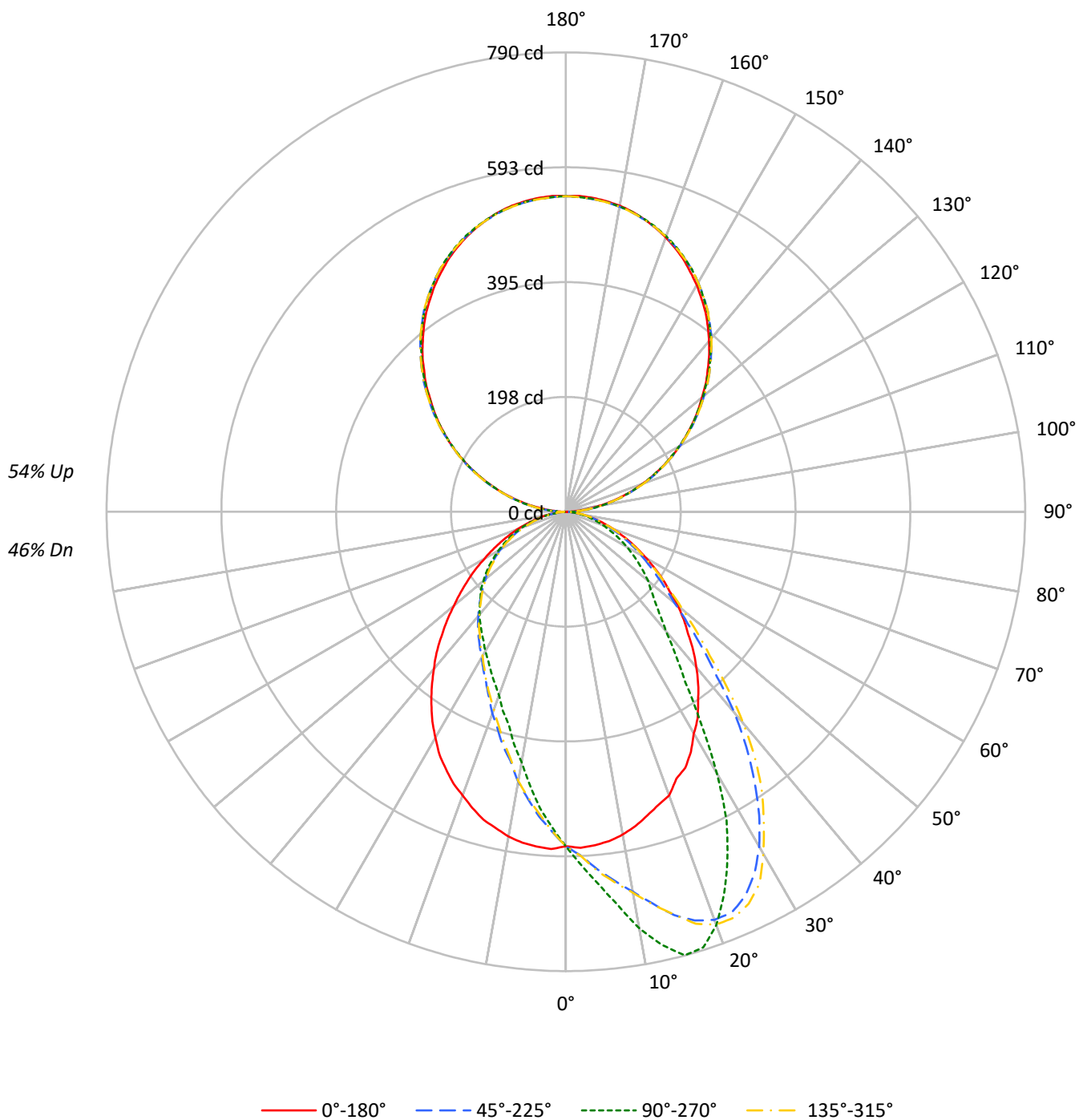
Lumens per Lamp: N/A
Luminaire Lumens: 2788.0 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.23
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 26.2
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52			46
1	97	93	89	86	89	86	82	80	72	69	67	59	57	56	47	46	45			39
2	89	82	76	71	81	75	70	66	63	60	56	52	49	47	42	40	38			34
3	81	72	65	60	74	67	61	56	56	52	48	46	43	40	37	35	33			29
4	75	64	57	51	68	59	53	48	50	45	41	42	38	35	34	31	29			25
5	69	57	50	44	63	53	46	41	45	40	36	38	34	31	30	28	26			22
6	63	52	44	38	58	48	41	36	41	35	31	34	30	27	28	25	23			20
7	59	47	39	34	54	43	37	32	37	32	28	31	27	24	26	23	20			18
8	54	43	35	30	50	40	33	28	34	29	25	29	25	22	24	21	18			16
9	51	39	32	27	47	36	30	25	31	26	22	26	22	19	22	19	17			15
10	47	36	29	24	44	33	27	23	29	24	20	24	20	18	20	17	15			13

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	2.0
10°-20°	159.5	5.7
20°-30°	231.4	8.3
30°-40°	244.0	8.8
40°-50°	215.9	7.7
50°-60°	172.4	6.2
60°-70°	117.1	4.2
70°-80°	59.9	2.1
80°-90°	15.7	0.6
90°-100°	33.6	1.2
100°-110°	106.7	3.8
110°-120°	182.6	6.6
120°-130°	240.2	8.6
130°-140°	269.6	9.7
140°-150°	264.4	9.5
150°-160°	221.8	8.0
160°-170°	147.1	5.3
170°-180°	51.4	1.8
0°-30°	445.7	16.0
0°-40°	689.6	24.7
0°-60°	1077.9	38.7
0°-90°	1270.6	45.6
90°-120°	322.9	11.6
90°-150°	1097.1	39.4
90°-180°	1517.0	54.4
0°-180°	2788.0	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°	0	16	0	16	0	2
95°	24	28	24	28	24	27
105°	98	102	98	102	98	104
115°	183	183	183	183	183	181
125°	267	268	267	268	267	238
135°	345	349	345	349	345	267
145°	419	423	419	423	419	262
155°	479	482	479	482	479	220
165°	521	521	521	521	521	147
175°	542	540	542	540	542	51
180°	543	543	543	543	543	

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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°	0.5	1.7	2.9	4.2	5.4	6.0	7.1	9.3	11.6	13.8	16.0
92.5°	10.1	10.9	11.7	12.5	13.3	13.7	13.8	13.9	14.0	14.1	14.2
95°	23.8	24.8	25.8	26.9	27.9	28.4	28.5	28.7	28.9	29.1	29.3
97.5°	39.8	40.7	41.7	42.6	43.5	44.0	44.2	44.6	45.0	45.4	45.8
100°	58.2	59.0	59.8	60.6	61.4	61.8	62.0	62.3	62.6	62.9	63.2
102.5°	77.4	78.0	78.6	79.3	79.9	80.2	80.4	80.8	81.2	81.6	82.0
105°	98.5	98.8	99.1	99.4	99.7	99.8	99.9	100.1	100.4	100.6	100.8
107.5°	119.5	119.9	120.3	120.8	121.2	121.4	121.4	121.4	121.4	121.4	121.4
110°	139.7	140.3	140.9	141.5	142.1	142.4	142.4	142.4	142.4	142.4	142.4

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	161.7	162.3	162.9	163.5	164.1	164.4	164.4	164.3	164.2	164.1	164.0
115°	183.2	183.8	184.4	185.1	185.7	186.0	185.9	185.7	185.4	185.2	185.0
117.5°	204.7	205.5	206.3	207.2	208.0	208.4	208.1	207.6	207.1	206.6	206.1
120°	226.3	227.1	227.9	228.7	229.5	229.9	229.5	228.7	227.9	227.1	226.3
122.5°	246.0	247.0	248.0	249.0	250.0	250.5	250.2	249.7	249.2	248.7	248.2
125°	266.6	267.5	268.4	269.3	270.2	270.7	270.5	270.2	269.9	269.6	269.3
127.5°	286.7	287.8	289.0	290.1	291.2	291.8	291.6	291.2	290.7	290.3	289.9
130°	305.5	306.8	308.2	309.5	310.8	311.5	311.4	311.2	310.9	310.7	310.5
132.5°	326.6	327.6	328.6	329.7	330.7	331.2	331.2	331.3	331.4	331.5	331.6
135°	344.9	346.0	347.1	348.2	349.3	349.9	350.0	350.2	350.4	350.6	350.8
137.5°	365.0	365.9	366.9	367.8	368.7	369.2	369.3	369.5	369.7	369.9	370.1
140°	382.9	383.8	384.7	385.6	386.5	387.0	387.3	387.8	388.3	388.8	389.3
142.5°	401.2	402.1	403.1	404.0	404.9	405.4	405.5	405.8	406.1	406.4	406.7
145°	418.6	419.3	420.0	420.7	421.4	421.8	422.1	422.7	423.4	424.0	424.6
147.5°	434.2	435.1	436.0	436.9	437.8	438.3	438.5	438.9	439.4	439.8	440.2
150°	450.2	450.8	451.4	452.1	452.7	453.0	453.2	453.6	454.0	454.4	454.8
152.5°	464.4	465.0	465.6	466.3	466.9	467.2	467.5	468.0	468.5	469.0	469.5
155°	478.6	478.9	479.2	479.5	479.8	480.0	480.2	480.5	480.8	481.1	481.4
157.5°	491.0	491.2	491.4	491.6	491.8	491.9	492.0	492.2	492.4	492.6	492.8
160°	502.0	502.2	502.4	502.6	502.8	502.9	503.0	503.1	503.2	503.3	503.4
162.5°	512.1	512.1	512.1	512.1	512.1	512.1	512.1	512.2	512.3	512.4	512.5
165°	520.8	520.7	520.6	520.5	520.4	520.3	520.3	520.3	520.3	520.3	520.3
167.5°	528.6	528.3	528.0	527.7	527.4	527.2	527.2	527.2	527.2	527.2	527.2
170°	534.5	534.2	533.9	533.6	533.3	533.1	533.1	533.0	532.9	532.8	532.7
172.5°	538.6	538.3	538.0	537.7	537.4	537.3	537.2	537.1	537.0	536.9	536.8
175°	541.8	541.5	541.2	540.9	540.6	540.5	540.4	540.2	540.0	539.8	539.6
177.5°	543.7	543.4	543.1	542.8	542.5	542.3	542.2	542.0	541.8	541.6	541.4
180°	542.8	542.8	542.8	542.8	542.8	542.8	542.8	542.8	542.8	542.8	542.8

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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°	15.8	15.6	15.4	15.2	15.1	15.2	15.3	15.4	15.5	15.6	15.5
92.5°	14.3	14.4	14.5	14.6	14.7	14.7	14.7	14.7	14.7	14.7	14.7
95°	29.3	29.3	29.3	29.3	29.3	29.2	29.0	28.8	28.6	28.4	28.6
97.5°	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8
100°	63.2	63.2	63.2	63.2	63.2	63.1	63.0	62.9	62.8	62.7	62.8
102.5°	82.1	82.2	82.3	82.4	82.4	82.4	82.3	82.2	82.1	82.0	82.1
105°	101.0	101.2	101.4	101.6	101.7	101.7	101.7	101.7	101.7	101.7	101.7
107.5°	121.5	121.6	121.7	121.8	121.8	121.5	121.0	120.5	120.0	119.5	120.0
110°	142.4	142.4	142.4	142.4	142.4	142.3	142.0	141.7	141.4	141.1	141.4

TEST NUMBER: P1029362

CATALOG NUMBER: S122DIW-B290D435UB2750-4F0-XX-W2A-A1_3000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	163.7	163.4	163.1	162.8	162.6	162.5	162.3	162.1	161.9	161.7	161.9
115°	184.9	184.8	184.7	184.6	184.6	184.4	184.1	183.8	183.5	183.2	183.5
117.5°	205.8	205.5	205.2	204.9	204.7	204.6	204.3	204.0	203.7	203.4	203.7
120°	226.3	226.3	226.3	226.3	226.3	226.1	225.8	225.5	225.2	224.9	225.2
122.5°	247.9	247.6	247.3	247.0	246.9	246.8	246.6	246.4	246.2	246.0	246.2
125°	269.0	268.7	268.4	268.1	267.9	267.9	267.8	267.7	267.6	267.5	267.6
127.5°	289.5	289.1	288.7	288.3	288.1	287.9	287.6	287.3	287.0	286.7	287.0
130°	310.3	310.1	309.9	309.7	309.6	309.4	309.0	308.6	308.2	307.8	308.2
132.5°	331.1	330.6	330.1	329.6	329.3	329.1	328.8	328.5	328.2	327.9	328.2
135°	350.7	350.6	350.5	350.4	350.4	350.2	349.9	349.6	349.3	349.0	349.3
137.5°	370.0	369.9	369.8	369.7	369.6	369.4	369.0	368.6	368.2	367.8	368.2
140°	389.3	389.3	389.3	389.3	389.3	389.1	388.7	388.3	387.9	387.5	387.9
142.5°	406.8	406.9	407.0	407.1	407.2	407.0	406.6	406.2	405.8	405.4	405.8
145°	424.7	424.8	424.9	425.0	425.0	424.8	424.4	424.0	423.6	423.2	423.6
147.5°	440.4	440.6	440.8	441.0	441.1	440.9	440.5	440.0	439.6	439.2	439.6
150°	455.1	455.4	455.7	456.0	456.2	456.0	455.7	455.4	455.1	454.8	455.1
152.5°	469.9	470.3	470.7	471.1	471.3	471.1	470.7	470.3	469.9	469.5	469.9
155°	481.9	482.4	482.9	483.4	483.7	483.5	483.2	482.9	482.6	482.3	482.6
157.5°	493.5	494.2	494.9	495.6	496.0	495.8	495.3	494.8	494.3	493.8	494.3
160°	504.0	504.6	505.2	505.8	506.1	505.9	505.5	505.1	504.7	504.3	504.7
162.5°	513.2	513.9	514.6	515.3	515.7	515.4	514.9	514.4	513.9	513.4	513.9
165°	521.0	521.7	522.4	523.1	523.5	523.2	522.7	522.2	521.7	521.2	521.7
167.5°	527.9	528.6	529.3	530.0	530.4	530.1	529.6	529.1	528.6	528.1	528.6
170°	533.4	534.1	534.8	535.5	535.9	535.6	535.0	534.3	533.7	533.1	533.7
172.5°	537.5	538.2	538.9	539.6	540.0	539.7	539.1	538.5	537.9	537.3	537.9
175°	540.3	541.0	541.7	542.4	542.8	542.5	541.9	541.2	540.6	540.0	540.6
177.5°	542.0	542.6	543.2	543.8	544.1	543.8	543.2	542.6	542.0	541.4	542.0
180°	542.8	542.8	542.8	542.8	542.8	542.8	542.8	542.8	542.8	542.8	542.8

TEST NUMBER: P1029362

CATALOG NUMBER: S122DIW-B290D435UB2750-4F0-XX-W2A-A1_3000K

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°	15.4	15.3	15.2	15.1	15.2	15.4	15.6	15.8	16.0	13.8	11.6
92.5°	14.7	14.7	14.7	14.7	14.6	14.5	14.4	14.3	14.2	14.1	14.0
95°	28.8	29.0	29.2	29.3	29.3	29.3	29.3	29.3	29.3	29.1	28.9
97.5°	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.4	45.0
100°	62.9	63.0	63.1	63.2	63.2	63.2	63.2	63.2	63.2	62.9	62.6
102.5°	82.2	82.3	82.4	82.4	82.4	82.3	82.2	82.1	82.0	81.6	81.2
105°	101.7	101.7	101.7	101.7	101.6	101.4	101.2	101.0	100.8	100.6	100.4
107.5°	120.5	121.0	121.5	121.8	121.8	121.7	121.6	121.5	121.4	121.4	121.4
110°	141.7	142.0	142.3	142.4	142.4	142.4	142.4	142.4	142.4	142.4	142.4

TEST NUMBER: P1029362

CATALOG NUMBER: S122DIW-B290D435UB2750-4F0-XX-W2A-A1_3000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	162.1	162.3	162.5	162.6	162.8	163.1	163.4	163.7	164.0	164.1	164.2
115°	183.8	184.1	184.4	184.6	184.6	184.7	184.8	184.9	185.0	185.2	185.4
117.5°	204.0	204.3	204.6	204.7	204.9	205.2	205.5	205.8	206.1	206.6	207.1
120°	225.5	225.8	226.1	226.3	226.3	226.3	226.3	226.3	226.3	227.1	227.9
122.5°	246.4	246.6	246.8	246.9	247.0	247.3	247.6	247.9	248.2	248.7	249.2
125°	267.7	267.8	267.9	267.9	268.1	268.4	268.7	269.0	269.3	269.6	269.9
127.5°	287.3	287.6	287.9	288.1	288.3	288.7	289.1	289.5	289.9	290.3	290.7
130°	308.6	309.0	309.4	309.6	309.7	309.9	310.1	310.3	310.5	310.7	310.9
132.5°	328.5	328.8	329.1	329.3	329.6	330.1	330.6	331.1	331.6	331.5	331.4
135°	349.6	349.9	350.2	350.4	350.4	350.5	350.6	350.7	350.8	350.6	350.4
137.5°	368.6	369.0	369.4	369.6	369.7	369.8	369.9	370.0	370.1	369.9	369.7
140°	388.3	388.7	389.1	389.3	389.3	389.3	389.3	389.3	389.3	388.8	388.3
142.5°	406.2	406.6	407.0	407.2	407.1	407.0	406.9	406.8	406.7	406.4	406.1
145°	424.0	424.4	424.8	425.0	425.0	424.9	424.8	424.7	424.6	424.0	423.4
147.5°	440.0	440.5	440.9	441.1	441.0	440.8	440.6	440.4	440.2	439.8	439.4
150°	455.4	455.7	456.0	456.2	456.0	455.7	455.4	455.1	454.8	454.4	454.0
152.5°	470.3	470.7	471.1	471.3	471.1	470.7	470.3	469.9	469.5	469.0	468.5
155°	482.9	483.2	483.5	483.7	483.4	482.9	482.4	481.9	481.4	481.1	480.8
157.5°	494.8	495.3	495.8	496.0	495.6	494.9	494.2	493.5	492.8	492.6	492.4
160°	505.1	505.5	505.9	506.1	505.8	505.2	504.6	504.0	503.4	503.3	503.2
162.5°	514.4	514.9	515.4	515.7	515.3	514.6	513.9	513.2	512.5	512.4	512.3
165°	522.2	522.7	523.2	523.5	523.1	522.4	521.7	521.0	520.3	520.3	520.3
167.5°	529.1	529.6	530.1	530.4	530.0	529.3	528.6	527.9	527.2	527.2	527.2
170°	534.3	535.0	535.6	535.9	535.5	534.8	534.1	533.4	532.7	532.8	532.9
172.5°	538.5	539.1	539.7	540.0	539.6	538.9	538.2	537.5	536.8	536.9	537.0
175°	541.2	541.9	542.5	542.8	542.4	541.7	541.0	540.3	539.6	539.8	540.0
177.5°	542.6	543.2	543.8	544.1	543.8	543.2	542.6	542.0	541.4	541.6	541.8
180°	542.8	542.8	542.8	542.8	542.8	542.8	542.8	542.8	542.8	542.8	542.8

TEST NUMBER: P1029362

CATALOG NUMBER: S122DIW-B290D435UB2750-4F0-XX-W2A-A1_3000K

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°	9.3	7.1	6.0	5.4	4.2	2.9	1.7	0.5	1.7	2.9	4.2
92.5°	13.9	13.8	13.7	13.3	12.5	11.7	10.9	10.1	10.9	11.7	12.5
95°	28.7	28.5	28.4	27.9	26.9	25.8	24.8	23.8	24.8	25.8	26.9
97.5°	44.6	44.2	44.0	43.5	42.6	41.7	40.7	39.8	40.7	41.7	42.6
100°	62.3	62.0	61.8	61.4	60.6	59.8	59.0	58.2	59.0	59.8	60.6
102.5°	80.8	80.4	80.2	79.9	79.3	78.6	78.0	77.4	78.0	78.6	79.3
105°	100.1	99.9	99.8	99.7	99.4	99.1	98.8	98.5	98.8	99.1	99.4
107.5°	121.4	121.4	121.4	121.2	120.8	120.3	119.9	119.5	119.9	120.3	120.8
110°	142.4	142.4	142.4	142.1	141.5	140.9	140.3	139.7	140.3	140.9	141.5

TEST NUMBER: P1029362

CATALOG NUMBER: S122DIW-B290D435UB2750-4F0-XX-W2A-A1_3000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	164.3	164.4	164.4	164.1	163.5	162.9	162.3	161.7	162.3	162.9	163.5
115°	185.7	185.9	186.0	185.7	185.1	184.4	183.8	183.2	183.8	184.4	185.1
117.5°	207.6	208.1	208.4	208.0	207.2	206.3	205.5	204.7	205.5	206.3	207.2
120°	228.7	229.5	229.9	229.5	228.7	227.9	227.1	226.3	227.1	227.9	228.7
122.5°	249.7	250.2	250.5	250.0	249.0	248.0	247.0	246.0	247.0	248.0	249.0
125°	270.2	270.5	270.7	270.2	269.3	268.4	267.5	266.6	267.5	268.4	269.3
127.5°	291.2	291.6	291.8	291.2	290.1	289.0	287.8	286.7	287.8	289.0	290.1
130°	311.2	311.4	311.5	310.8	309.5	308.2	306.8	305.5	306.8	308.2	309.5
132.5°	331.3	331.2	331.2	330.7	329.7	328.6	327.6	326.6	327.6	328.6	329.7
135°	350.2	350.0	349.9	349.3	348.2	347.1	346.0	344.9	346.0	347.1	348.2
137.5°	369.5	369.3	369.2	368.7	367.8	366.9	365.9	365.0	365.9	366.9	367.8
140°	387.8	387.3	387.0	386.5	385.6	384.7	383.8	382.9	383.8	384.7	385.6
142.5°	405.8	405.5	405.4	404.9	404.0	403.1	402.1	401.2	402.1	403.1	404.0
145°	422.7	422.1	421.8	421.4	420.7	420.0	419.3	418.6	419.3	420.0	420.7
147.5°	438.9	438.5	438.3	437.8	436.9	436.0	435.1	434.2	435.1	436.0	436.9
150°	453.6	453.2	453.0	452.7	452.1	451.4	450.8	450.2	450.8	451.4	452.1
152.5°	468.0	467.5	467.2	466.9	466.3	465.6	465.0	464.4	465.0	465.6	466.3
155°	480.5	480.2	480.0	479.8	479.5	479.2	478.9	478.6	478.9	479.2	479.5
157.5°	492.2	492.0	491.9	491.8	491.6	491.4	491.2	491.0	491.2	491.4	491.6
160°	503.1	503.0	502.9	502.8	502.6	502.4	502.2	502.0	502.2	502.4	502.6
162.5°	512.2	512.1	512.1	512.1	512.1	512.1	512.1	512.1	512.1	512.1	512.1
165°	520.3	520.3	520.3	520.4	520.5	520.6	520.7	520.8	520.7	520.6	520.5
167.5°	527.2	527.2	527.2	527.4	527.7	528.0	528.3	528.6	528.3	528.0	527.7
170°	533.0	533.1	533.1	533.3	533.6	533.9	534.2	534.5	534.2	533.9	533.6
172.5°	537.1	537.2	537.3	537.4	537.7	538.0	538.3	538.6	538.3	538.0	537.7
175°	540.2	540.4	540.5	540.6	540.9	541.2	541.5	541.8	541.5	541.2	540.9
177.5°	542.0	542.2	542.3	542.5	542.8	543.1	543.4	543.7	543.4	543.1	542.8
180°	542.8	542.8	542.8	542.8	542.8	542.8	542.8	542.8	542.8	542.8	542.8

TEST NUMBER: P1029362

CATALOG NUMBER: S122DIW-B290D435UB2750-4F0-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°	5.4	6.0	7.1	9.3	11.6	13.8	16.0	15.8	15.6	15.4	15.2
92.5°	13.3	13.7	13.8	13.9	14.0	14.1	14.2	14.3	14.4	14.5	14.6
95°	27.9	28.4	28.5	28.7	28.9	29.1	29.3	29.3	29.3	29.3	29.3
97.5°	43.5	44.0	44.2	44.6	45.0	45.4	45.8	45.8	45.8	45.8	45.8
100°	61.4	61.8	62.0	62.3	62.6	62.9	63.2	63.2	63.2	63.2	63.2
102.5°	79.9	80.2	80.4	80.8	81.2	81.6	82.0	82.1	82.2	82.3	82.4
105°	99.7	99.8	99.9	100.1	100.4	100.6	100.8	101.0	101.2	101.4	101.6
107.5°	121.2	121.4	121.4	121.4	121.4	121.4	121.4	121.5	121.6	121.7	121.8
110°	142.1	142.4	142.4	142.4	142.4	142.4	142.4	142.4	142.4	142.4	142.4

TEST NUMBER: P1029362

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CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	164.1	164.4	164.4	164.3	164.2	164.1	164.0	163.7	163.4	163.1	162.8
115°	185.7	186.0	185.9	185.7	185.4	185.2	185.0	184.9	184.8	184.7	184.6
117.5°	208.0	208.4	208.1	207.6	207.1	206.6	206.1	205.8	205.5	205.2	204.9
120°	229.5	229.9	229.5	228.7	227.9	227.1	226.3	226.3	226.3	226.3	226.3
122.5°	250.0	250.5	250.2	249.7	249.2	248.7	248.2	247.9	247.6	247.3	247.0
125°	270.2	270.7	270.5	270.2	269.9	269.6	269.3	269.0	268.7	268.4	268.1
127.5°	291.2	291.8	291.6	291.2	290.7	290.3	289.9	289.5	289.1	288.7	288.3
130°	310.8	311.5	311.4	311.2	310.9	310.7	310.5	310.3	310.1	309.9	309.7
132.5°	330.7	331.2	331.2	331.3	331.4	331.5	331.6	331.1	330.6	330.1	329.6
135°	349.3	349.9	350.0	350.2	350.4	350.6	350.8	350.7	350.6	350.5	350.4
137.5°	368.7	369.2	369.3	369.5	369.7	369.9	370.1	370.0	369.9	369.8	369.7
140°	386.5	387.0	387.3	387.8	388.3	388.8	389.3	389.3	389.3	389.3	389.3
142.5°	404.9	405.4	405.5	405.8	406.1	406.4	406.7	406.8	406.9	407.0	407.1
145°	421.4	421.8	422.1	422.7	423.4	424.0	424.6	424.7	424.8	424.9	425.0
147.5°	437.8	438.3	438.5	438.9	439.4	439.8	440.2	440.4	440.6	440.8	441.0
150°	452.7	453.0	453.2	453.6	454.0	454.4	454.8	455.1	455.4	455.7	456.0
152.5°	466.9	467.2	467.5	468.0	468.5	469.0	469.5	469.9	470.3	470.7	471.1
155°	479.8	480.0	480.2	480.5	480.8	481.1	481.4	481.9	482.4	482.9	483.4
157.5°	491.8	491.9	492.0	492.2	492.4	492.6	492.8	493.5	494.2	494.9	495.6
160°	502.8	502.9	503.0	503.1	503.2	503.3	503.4	504.0	504.6	505.2	505.8
162.5°	512.1	512.1	512.1	512.2	512.3	512.4	512.5	513.2	513.9	514.6	515.3
165°	520.4	520.3	520.3	520.3	520.3	520.3	520.3	521.0	521.7	522.4	523.1
167.5°	527.4	527.2	527.2	527.2	527.2	527.2	527.2	527.9	528.6	529.3	530.0
170°	533.3	533.1	533.1	533.0	532.9	532.8	532.7	533.4	534.1	534.8	535.5
172.5°	537.4	537.3	537.2	537.1	537.0	536.9	536.8	537.5	538.2	538.9	539.6
175°	540.6	540.5	540.4	540.2	540.0	539.8	539.6	540.3	541.0	541.7	542.4
177.5°	542.5	542.3	542.2	542.0	541.8	541.6	541.4	542.0	542.6	543.2	543.8
180°	542.8	542.8	542.8	542.8	542.8	542.8	542.8	542.8	542.8	542.8	542.8

TEST NUMBER: P1029362

CATALOG NUMBER: S122DIW-B290D435UB2750-4F0-XX-W2A-A1_3000K

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°	15.1	15.2	15.3	15.4	15.5	15.6	15.5	15.4	15.3	15.2	15.1
92.5°	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
95°	29.3	29.2	29.0	28.8	28.6	28.4	28.6	28.8	29.0	29.2	29.3
97.5°	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8	45.8
100°	63.2	63.1	63.0	62.9	62.8	62.7	62.8	62.9	63.0	63.1	63.2
102.5°	82.4	82.4	82.3	82.2	82.1	82.0	82.1	82.2	82.3	82.4	82.4
105°	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7
107.5°	121.8	121.5	121.0	120.5	120.0	119.5	120.0	120.5	121.0	121.5	121.8
110°	142.4	142.3	142.0	141.7	141.4	141.1	141.4	141.7	142.0	142.3	142.4

TEST NUMBER: P1029362

CATALOG NUMBER: S122DIW-B290D435UB2750-4F0-XX-W2A-A1_3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	162.6	162.5	162.3	162.1	161.9	161.7	161.9	162.1	162.3	162.5	162.6
115°	184.6	184.4	184.1	183.8	183.5	183.2	183.5	183.8	184.1	184.4	184.6
117.5°	204.7	204.6	204.3	204.0	203.7	203.4	203.7	204.0	204.3	204.6	204.7
120°	226.3	226.1	225.8	225.5	225.2	224.9	225.2	225.5	225.8	226.1	226.3
122.5°	246.9	246.8	246.6	246.4	246.2	246.0	246.2	246.4	246.6	246.8	246.9
125°	267.9	267.9	267.8	267.7	267.6	267.5	267.6	267.7	267.8	267.9	267.9
127.5°	288.1	287.9	287.6	287.3	287.0	286.7	287.0	287.3	287.6	287.9	288.1
130°	309.6	309.4	309.0	308.6	308.2	307.8	308.2	308.6	309.0	309.4	309.6
132.5°	329.3	329.1	328.8	328.5	328.2	327.9	328.2	328.5	328.8	329.1	329.3
135°	350.4	350.2	349.9	349.6	349.3	349.0	349.3	349.6	349.9	350.2	350.4
137.5°	369.6	369.4	369.0	368.6	368.2	367.8	368.2	368.6	369.0	369.4	369.6
140°	389.3	389.1	388.7	388.3	387.9	387.5	387.9	388.3	388.7	389.1	389.3
142.5°	407.2	407.0	406.6	406.2	405.8	405.4	405.8	406.2	406.6	407.0	407.2
145°	425.0	424.8	424.4	424.0	423.6	423.2	423.6	424.0	424.4	424.8	425.0
147.5°	441.1	440.9	440.5	440.0	439.6	439.2	439.6	440.0	440.5	440.9	441.1
150°	456.2	456.0	455.7	455.4	455.1	454.8	455.1	455.4	455.7	456.0	456.2
152.5°	471.3	471.1	470.7	470.3	469.9	469.5	469.9	470.3	470.7	471.1	471.3
155°	483.7	483.5	483.2	482.9	482.6	482.3	482.6	482.9	483.2	483.5	483.7
157.5°	496.0	495.8	495.3	494.8	494.3	493.8	494.3	494.8	495.3	495.8	496.0
160°	506.1	505.9	505.5	505.1	504.7	504.3	504.7	505.1	505.5	505.9	506.1
162.5°	515.7	515.4	514.9	514.4	513.9	513.4	513.9	514.4	514.9	515.4	515.7
165°	523.5	523.2	522.7	522.2	521.7	521.2	521.7	522.2	522.7	523.2	523.5
167.5°	530.4	530.1	529.6	529.1	528.6	528.1	528.6	529.1	529.6	530.1	530.4
170°	535.9	535.6	535.0	534.3	533.7	533.1	533.7	534.3	535.0	535.6	535.9
172.5°	540.0	539.7	539.1	538.5	537.9	537.3	537.9	538.5	539.1	539.7	540.0
175°	542.8	542.5	541.9	541.2	540.6	540.0	540.6	541.2	541.9	542.5	542.8
177.5°	544.1	543.8	543.2	542.6	542.0	541.4	542.0	542.6	543.2	543.8	544.1
180°	542.8	542.8	542.8	542.8	542.8	542.8	542.8	542.8	542.8	542.8	542.8

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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°	15.2	15.4	15.6	15.8	16.0	13.8	11.6	9.3	7.1	6.0	5.4
92.5°	14.6	14.5	14.4	14.3	14.2	14.1	14.0	13.9	13.8	13.7	13.3
95°	29.3	29.3	29.3	29.3	29.3	29.1	28.9	28.7	28.5	28.4	27.9
97.5°	45.8	45.8	45.8	45.8	45.8	45.4	45.0	44.6	44.2	44.0	43.5
100°	63.2	63.2	63.2	63.2	63.2	62.9	62.6	62.3	62.0	61.8	61.4
102.5°	82.4	82.3	82.2	82.1	82.0	81.6	81.2	80.8	80.4	80.2	79.9
105°	101.6	101.4	101.2	101.0	100.8	100.6	100.4	100.1	99.9	99.8	99.7
107.5°	121.8	121.7	121.6	121.5	121.4	121.4	121.4	121.4	121.4	121.4	121.2
110°	142.4	142.4	142.4	142.4	142.4	142.4	142.4	142.4	142.4	142.4	142.1

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CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	162.8	163.1	163.4	163.7	164.0	164.1	164.2	164.3	164.4	164.4	164.1
115°	184.6	184.7	184.8	184.9	185.0	185.2	185.4	185.7	185.9	186.0	185.7
117.5°	204.9	205.2	205.5	205.8	206.1	206.6	207.1	207.6	208.1	208.4	208.0
120°	226.3	226.3	226.3	226.3	226.3	227.1	227.9	228.7	229.5	229.9	229.5
122.5°	247.0	247.3	247.6	247.9	248.2	248.7	249.2	249.7	250.2	250.5	250.0
125°	268.1	268.4	268.7	269.0	269.3	269.6	269.9	270.2	270.5	270.7	270.2
127.5°	288.3	288.7	289.1	289.5	289.9	290.3	290.7	291.2	291.6	291.8	291.2
130°	309.7	309.9	310.1	310.3	310.5	310.7	310.9	311.2	311.4	311.5	310.8
132.5°	329.6	330.1	330.6	331.1	331.6	331.5	331.4	331.3	331.2	331.2	330.7
135°	350.4	350.5	350.6	350.7	350.8	350.6	350.4	350.2	350.0	349.9	349.3
137.5°	369.7	369.8	369.9	370.0	370.1	369.9	369.7	369.5	369.3	369.2	368.7
140°	389.3	389.3	389.3	389.3	389.3	388.8	388.3	387.8	387.3	387.0	386.5
142.5°	407.1	407.0	406.9	406.8	406.7	406.4	406.1	405.8	405.5	405.4	404.9
145°	425.0	424.9	424.8	424.7	424.6	424.0	423.4	422.7	422.1	421.8	421.4
147.5°	441.0	440.8	440.6	440.4	440.2	439.8	439.4	438.9	438.5	438.3	437.8
150°	456.0	455.7	455.4	455.1	454.8	454.4	454.0	453.6	453.2	453.0	452.7
152.5°	471.1	470.7	470.3	469.9	469.5	469.0	468.5	468.0	467.5	467.2	466.9
155°	483.4	482.9	482.4	481.9	481.4	481.1	480.8	480.5	480.2	480.0	479.8
157.5°	495.6	494.9	494.2	493.5	492.8	492.6	492.4	492.2	492.0	491.9	491.8
160°	505.8	505.2	504.6	504.0	503.4	503.3	503.2	503.1	503.0	502.9	502.8
162.5°	515.3	514.6	513.9	513.2	512.5	512.4	512.3	512.2	512.1	512.1	512.1
165°	523.1	522.4	521.7	521.0	520.3	520.3	520.3	520.3	520.3	520.3	520.4
167.5°	530.0	529.3	528.6	527.9	527.2	527.2	527.2	527.2	527.2	527.2	527.4
170°	535.5	534.8	534.1	533.4	532.7	532.8	532.9	533.0	533.1	533.1	533.3
172.5°	539.6	538.9	538.2	537.5	536.8	536.9	537.0	537.1	537.2	537.3	537.4
175°	542.4	541.7	541.0	540.3	539.6	539.8	540.0	540.2	540.4	540.5	540.6
177.5°	543.8	543.2	542.6	542.0	541.4	541.6	541.8	542.0	542.2	542.3	542.5
180°	542.8	542.8	542.8	542.8	542.8	542.8	542.8	542.8	542.8	542.8	542.8

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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°	4.2	2.9	1.7	0.5
92.5°	12.5	11.7	10.9	10.1
95°	26.9	25.8	24.8	23.8
97.5°	42.6	41.7	40.7	39.8
100°	60.6	59.8	59.0	58.2
102.5°	79.3	78.6	78.0	77.4
105°	99.4	99.1	98.8	98.5
107.5°	120.8	120.3	119.9	119.5
110°	141.5	140.9	140.3	139.7

TEST NUMBER: P1029362

CATALOG NUMBER: S122DIW-B290D435UB2750-4F0-XX-W2A-A1_3000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	163.5	162.9	162.3	161.7
115°	185.1	184.4	183.8	183.2
117.5°	207.2	206.3	205.5	204.7
120°	228.7	227.9	227.1	226.3
122.5°	249.0	248.0	247.0	246.0
125°	269.3	268.4	267.5	266.6
127.5°	290.1	289.0	287.8	286.7
130°	309.5	308.2	306.8	305.5
132.5°	329.7	328.6	327.6	326.6
135°	348.2	347.1	346.0	344.9
137.5°	367.8	366.9	365.9	365.0
140°	385.6	384.7	383.8	382.9
142.5°	404.0	403.1	402.1	401.2
145°	420.7	420.0	419.3	418.6
147.5°	436.9	436.0	435.1	434.2
150°	452.1	451.4	450.8	450.2
152.5°	466.3	465.6	465.0	464.4
155°	479.5	479.2	478.9	478.6
157.5°	491.6	491.4	491.2	491.0
160°	502.6	502.4	502.2	502.0
162.5°	512.1	512.1	512.1	512.1
165°	520.5	520.6	520.7	520.8
167.5°	527.7	528.0	528.3	528.6
170°	533.6	533.9	534.2	534.5
172.5°	537.7	538.0	538.3	538.6
175°	540.9	541.2	541.5	541.8
177.5°	542.8	543.1	543.4	543.7
180°	542.8	542.8	542.8	542.8

(END OF REPORT)