

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: P1029367

Luminaire Tested: S122DIW-B290D435UB2750-4F0-XX-W2A-A_3000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029367
REPORT IS A COMBINATION OF REPORTS P985668 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-A_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

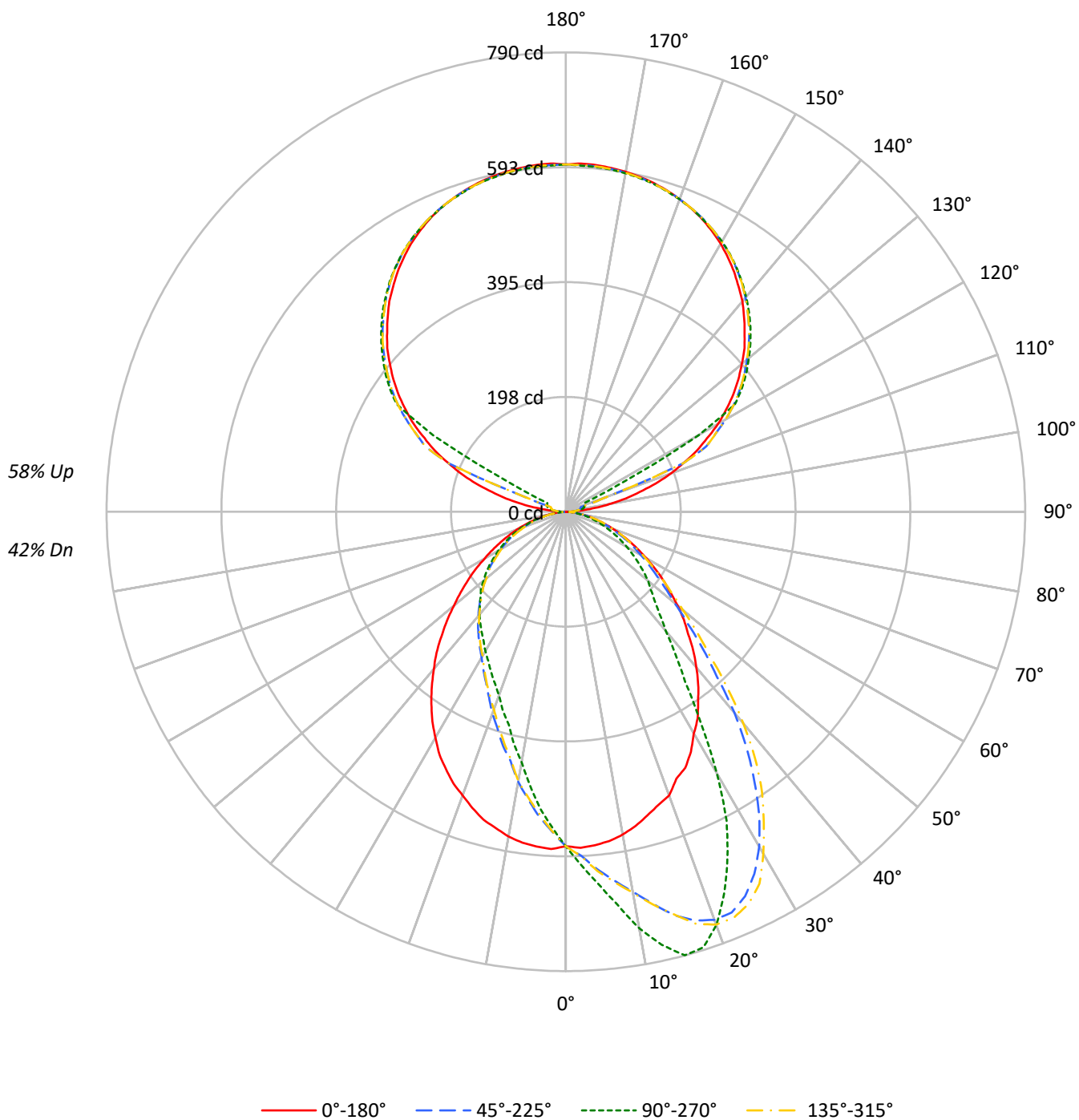
Lumens per Lamp: N/A
Luminaire Lumens: 3021.0 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.23
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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
RCR																	
0	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49
1	96	92	89	85	88	84	81	78	70	68	66	56	55	53	44	43	42
2	88	81	75	70	80	74	69	65	62	58	55	50	47	45	39	37	36
3	81	72	65	59	73	66	60	55	55	50	47	44	41	39	35	33	31
4	74	64	56	50	67	58	52	47	49	44	40	40	36	33	31	29	27
5	68	57	49	43	62	52	45	40	44	39	35	36	32	29	29	26	24
6	63	51	43	38	57	47	40	35	40	34	30	33	29	26	26	23	21
7	58	46	38	33	53	43	36	31	36	31	27	30	26	23	24	21	19
8	54	42	34	29	49	39	32	28	33	28	24	27	23	21	22	19	17
9	50	38	31	26	46	36	29	25	30	25	22	25	21	19	20	18	16
10	47	35	28	24	43	33	26	22	28	23	20	23	20	17	19	16	14

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	1.8
10°-20°	159.5	5.3
20°-30°	231.4	7.7
30°-40°	244.0	8.1
40°-50°	215.9	7.1
50°-60°	172.4	5.7
60°-70°	117.1	3.9
70°-80°	59.9	2.0
80°-90°	15.2	0.5
90°-100°	19.7	0.7
100°-110°	73.4	2.4
110°-120°	194.7	6.4
120°-130°	322.9	10.7
130°-140°	343.0	11.4
140°-150°	318.8	10.6
150°-160°	256.3	8.5
160°-170°	165.2	5.5
170°-180°	56.8	1.9
0°-30°	445.7	14.8
0°-40°	689.6	22.8
0°-60°	1077.9	35.7
0°-90°	1270.1	42.0
90°-120°	287.8	9.5
90°-150°	1272.6	42.1
90°-180°	1751.0	58.0
0°-180°	3021.0	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	12	0	12	0	2
95°	28	19	28	19	28	33
105°	131	33	131	33	131	140
115°	248	35	248	35	248	245
125°	351	370	351	370	351	313
135°	435	449	435	449	435	336
145°	504	512	504	512	504	315
155°	555	556	555	556	555	256
165°	585	584	585	584	585	165
175°	599	595	599	595	599	57
180°	597	597	597	597	597	

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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°	0.4	1.5	2.5	3.6	4.7	5.2	5.6	6.3	7.1	7.8	8.6
92.5°	10.8	10.4	10.0	9.7	9.3	9.1	9.2	9.5	9.8	10.1	10.4
95°	28.1	24.9	21.7	18.6	15.4	13.8	14.1	14.8	15.5	16.2	16.9
97.5°	50.6	42.7	34.8	26.9	19.0	15.1	15.9	17.4	18.9	20.5	22.0
100°	76.5	63.3	50.2	37.0	23.9	17.3	18.1	19.7	21.4	23.0	24.6
102.5°	105.0	104.8	104.6	104.5	104.3	104.2	95.5	78.0	60.5	43.0	25.5
105°	131.4	134.3	137.1	140.0	142.9	144.3	131.2	105.0	78.8	52.6	26.4
107.5°	162.1	164.5	166.9	169.3	171.7	172.9	156.7	124.3	92.0	59.6	27.2
110°	191.5	193.5	195.5	197.5	199.5	200.5	186.6	158.9	131.1	103.4	75.6

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	219.1	220.8	222.6	224.3	226.0	226.9	226.1	224.4	222.8	221.1	219.5
115°	248.5	250.1	251.7	253.4	255.0	255.8	257.0	259.4	261.8	264.2	266.6
117.5°	274.0	275.9	277.8	279.7	281.6	282.6	283.4	285.1	286.7	288.4	290.0
120°	302.5	303.9	305.4	306.8	308.3	309.0	309.9	311.6	313.3	315.1	316.8
122.5°	326.7	328.2	329.8	331.3	332.8	333.6	334.6	336.5	338.4	340.4	342.3
125°	351.4	352.6	353.9	355.1	356.4	357.0	357.9	359.7	361.6	363.4	365.2
127.5°	373.8	375.2	376.5	377.9	379.2	379.9	380.6	382.1	383.5	385.0	386.4
130°	395.0	396.5	398.1	399.6	401.1	401.9	402.4	403.5	404.6	405.6	406.7
132.5°	416.6	417.8	419.1	420.3	421.6	422.2	422.7	423.8	424.9	425.9	427.0
135°	434.8	436.3	437.9	439.4	440.9	441.7	442.1	443.0	443.9	444.7	445.6
137.5°	453.8	455.0	456.1	457.3	458.4	459.0	459.5	460.4	461.4	462.3	463.3
140°	472.4	473.2	473.9	474.7	475.4	475.8	476.3	477.4	478.5	479.5	480.6
142.5°	487.9	488.6	489.2	489.9	490.6	490.9	491.5	492.8	494.1	495.3	496.6
145°	504.3	504.2	504.1	504.0	503.9	503.9	504.7	506.4	508.0	509.7	511.3
147.5°	518.6	518.3	518.0	517.7	517.4	517.3	518.1	519.8	521.4	523.1	524.7
150°	532.4	531.7	531.1	530.4	529.7	529.4	530.2	531.7	533.2	534.8	536.3
152.5°	544.1	543.3	542.5	541.8	541.0	540.6	541.3	542.8	544.2	545.7	547.1
155°	555.3	554.4	553.6	552.7	551.8	551.4	552.0	553.1	554.3	555.4	556.6
157.5°	564.4	563.6	562.9	562.1	561.4	561.0	561.4	562.3	563.1	564.0	564.8
160°	572.2	571.6	571.0	570.5	569.9	569.6	569.9	570.5	571.0	571.6	572.2
162.5°	579.1	578.5	577.9	577.4	576.8	576.5	576.7	577.2	577.7	578.2	578.7
165°	585.2	584.6	584.0	583.5	582.9	582.6	582.7	583.0	583.3	583.6	583.9
167.5°	589.9	589.3	588.7	588.2	587.6	587.3	587.4	587.7	588.0	588.3	588.6
170°	593.8	593.2	592.6	592.1	591.5	591.2	591.3	591.5	591.7	591.9	592.1
172.5°	596.4	595.8	595.2	594.7	594.1	593.8	593.9	594.1	594.3	594.5	594.7
175°	598.6	597.9	597.2	596.5	595.8	595.5	595.6	595.8	596.0	596.2	596.4
177.5°	599.4	598.7	598.1	597.4	596.7	596.4	596.4	596.5	596.6	596.7	596.8
180°	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3

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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°	9.1	9.6	10.1	10.6	10.8	10.9	11.1	11.3	11.5	11.7	11.5
92.5°	10.6	10.8	10.9	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.6
95°	17.4	17.8	18.3	18.8	19.0	19.0	18.9	18.8	18.7	18.6	18.7
97.5°	22.3	22.6	22.9	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.7
100°	25.4	26.2	26.9	27.7	28.1	28.2	28.4	28.6	28.8	29.0	28.8
102.5°	26.6	27.6	28.7	29.8	30.3	30.4	30.7	31.0	31.2	31.5	31.2
105°	27.4	28.5	29.5	30.6	31.1	31.3	31.7	32.0	32.4	32.8	32.4
107.5°	28.3	29.3	30.4	31.5	32.0	32.2	32.6	32.9	33.3	33.7	33.3
110°	66.0	56.4	46.8	37.2	32.4	32.6	33.0	33.3	33.7	34.1	33.7

TEST NUMBER: P1029367

CATALOG NUMBER: S122DIW-B290D435UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	178.1	136.7	95.4	54.0	33.3	33.4	33.7	34.0	34.3	34.6	34.3
115°	222.2	177.7	133.3	88.8	66.6	63.1	56.2	49.3	42.3	35.4	42.3
117.5°	276.3	262.5	248.8	235.1	228.2	215.6	190.5	165.3	140.2	115.0	140.2
120°	318.0	319.1	320.3	321.4	322.0	315.5	302.5	289.6	276.6	263.6	276.6
122.5°	342.9	343.5	344.0	344.6	344.9	344.9	345.0	345.1	345.2	345.3	345.2
125°	365.9	366.5	367.2	367.9	368.2	368.3	368.6	368.9	369.2	369.5	369.2
127.5°	387.4	388.3	389.3	390.2	390.7	390.7	390.8	390.9	391.0	391.1	391.0
130°	407.7	408.8	409.8	410.9	411.4	411.4	411.3	411.2	411.1	411.0	411.1
132.5°	427.9	428.7	429.6	430.5	430.9	430.8	430.7	430.6	430.5	430.4	430.5
135°	446.6	447.5	448.5	449.4	449.9	449.8	449.6	449.4	449.2	449.0	449.2
137.5°	464.3	465.2	466.2	467.1	467.6	467.5	467.2	466.9	466.6	466.3	466.6
140°	481.5	482.3	483.2	484.1	484.5	484.3	483.8	483.3	482.8	482.3	482.8
142.5°	497.4	498.1	498.9	499.6	500.0	499.8	499.3	498.8	498.4	497.9	498.4
145°	512.0	512.6	513.3	514.0	514.3	514.1	513.6	513.1	512.6	512.1	512.6
147.5°	525.2	525.6	526.1	526.6	526.8	526.6	526.2	525.9	525.5	525.1	525.5
150°	536.9	537.5	538.0	538.6	538.9	538.7	538.2	537.7	537.3	536.8	537.3
152.5°	547.7	548.3	548.8	549.4	549.7	549.4	548.7	548.0	547.4	546.7	547.4
155°	557.2	557.8	558.3	558.9	559.2	558.8	558.1	557.3	556.6	555.8	556.6
157.5°	565.5	566.2	566.9	567.6	567.9	567.5	566.7	566.0	565.2	564.4	565.2
160°	572.8	573.4	573.9	574.5	574.8	574.5	573.8	573.1	572.5	571.8	572.5
162.5°	579.4	580.0	580.7	581.4	581.7	581.3	580.4	579.5	578.7	577.8	578.7
165°	584.6	585.2	585.9	586.6	586.9	586.6	585.9	585.2	584.6	583.9	584.6
167.5°	589.3	589.9	590.6	591.3	591.6	591.2	590.3	589.4	588.6	587.7	588.6
170°	592.8	593.4	594.1	594.8	595.1	594.7	593.8	592.9	592.1	591.2	592.1
172.5°	595.4	596.0	596.7	597.4	597.7	597.3	596.4	595.5	594.7	593.8	594.7
175°	597.1	597.7	598.4	599.1	599.4	598.9	598.0	597.0	596.1	595.1	596.1
177.5°	597.5	598.2	598.9	599.6	599.9	599.5	598.6	597.7	596.9	596.0	596.9
180°	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3

TEST NUMBER: P1029367

CATALOG NUMBER: S122DIW-B290D435UB2750-4F0-XX-W2A-A_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°	11.3	11.1	10.9	10.8	10.6	10.1	9.6	9.1	8.6	7.8	7.1
92.5°	11.5	11.4	11.3	11.2	11.1	10.9	10.8	10.6	10.4	10.1	9.8
95°	18.8	18.9	19.0	19.0	18.8	18.3	17.8	17.4	16.9	16.2	15.5
97.5°	23.6	23.5	23.4	23.3	23.2	22.9	22.6	22.3	22.0	20.5	18.9
100°	28.6	28.4	28.2	28.1	27.7	26.9	26.2	25.4	24.6	23.0	21.4
102.5°	31.0	30.7	30.4	30.3	29.8	28.7	27.6	26.6	25.5	43.0	60.5
105°	32.0	31.7	31.3	31.1	30.6	29.5	28.5	27.4	26.4	52.6	78.8
107.5°	32.9	32.6	32.2	32.0	31.5	30.4	29.3	28.3	27.2	59.6	92.0
110°	33.3	33.0	32.6	32.4	37.2	46.8	56.4	66.0	75.6	103.4	131.1

TEST NUMBER: P1029367

CATALOG NUMBER: S122DIW-B290D435UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	34.0	33.7	33.4	33.3	54.0	95.4	136.7	178.1	219.5	221.1	222.8
115°	49.3	56.2	63.1	66.6	88.8	133.3	177.7	222.2	266.6	264.2	261.8
117.5°	165.3	190.5	215.6	228.2	235.1	248.8	262.5	276.3	290.0	288.4	286.7
120°	289.6	302.5	315.5	322.0	321.4	320.3	319.1	318.0	316.8	315.1	313.3
122.5°	345.1	345.0	344.9	344.9	344.6	344.0	343.5	342.9	342.3	340.4	338.4
125°	368.9	368.6	368.3	368.2	367.9	367.2	366.5	365.9	365.2	363.4	361.6
127.5°	390.9	390.8	390.7	390.7	390.2	389.3	388.3	387.4	386.4	385.0	383.5
130°	411.2	411.3	411.4	411.4	410.9	409.8	408.8	407.7	406.7	405.6	404.6
132.5°	430.6	430.7	430.8	430.9	430.5	429.6	428.7	427.9	427.0	425.9	424.9
135°	449.4	449.6	449.8	449.9	449.4	448.5	447.5	446.6	445.6	444.7	443.9
137.5°	466.9	467.2	467.5	467.6	467.1	466.2	465.2	464.3	463.3	462.3	461.4
140°	483.3	483.8	484.3	484.5	484.1	483.2	482.3	481.5	480.6	479.5	478.5
142.5°	498.8	499.3	499.8	500.0	499.6	498.9	498.1	497.4	496.6	495.3	494.1
145°	513.1	513.6	514.1	514.3	514.0	513.3	512.6	512.0	511.3	509.7	508.0
147.5°	525.9	526.2	526.6	526.8	526.6	526.1	525.6	525.2	524.7	523.1	521.4
150°	537.7	538.2	538.7	538.9	538.6	538.0	537.5	536.9	536.3	534.8	533.2
152.5°	548.0	548.7	549.4	549.7	549.4	548.8	548.3	547.7	547.1	545.7	544.2
155°	557.3	558.1	558.8	559.2	558.9	558.3	557.8	557.2	556.6	555.4	554.3
157.5°	566.0	566.7	567.5	567.9	567.6	566.9	566.2	565.5	564.8	564.0	563.1
160°	573.1	573.8	574.5	574.8	574.5	573.9	573.4	572.8	572.2	571.6	571.0
162.5°	579.5	580.4	581.3	581.7	581.4	580.7	580.0	579.4	578.7	578.2	577.7
165°	585.2	585.9	586.6	586.9	586.6	585.9	585.2	584.6	583.9	583.6	583.3
167.5°	589.4	590.3	591.2	591.6	591.3	590.6	589.9	589.3	588.6	588.3	588.0
170°	592.9	593.8	594.7	595.1	594.8	594.1	593.4	592.8	592.1	591.9	591.7
172.5°	595.5	596.4	597.3	597.7	597.4	596.7	596.0	595.4	594.7	594.5	594.3
175°	597.0	598.0	598.9	599.4	599.1	598.4	597.7	597.1	596.4	596.2	596.0
177.5°	597.7	598.6	599.5	599.9	599.6	598.9	598.2	597.5	596.8	596.7	596.6
180°	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3

TEST NUMBER: P1029367

CATALOG NUMBER: S122DIW-B290D435UB2750-4F0-XX-W2A-A_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°	6.3	5.6	5.2	4.7	3.6	2.5	1.5	0.4	1.5	2.5	3.6
92.5°	9.5	9.2	9.1	9.3	9.7	10.0	10.4	10.8	10.4	10.0	9.7
95°	14.8	14.1	13.8	15.4	18.6	21.7	24.9	28.1	24.9	21.7	18.6
97.5°	17.4	15.9	15.1	19.0	26.9	34.8	42.7	50.6	42.7	34.8	26.9
100°	19.7	18.1	17.3	23.9	37.0	50.2	63.3	76.5	63.3	50.2	37.0
102.5°	78.0	95.5	104.2	104.3	104.5	104.6	104.8	105.0	104.8	104.6	104.5
105°	105.0	131.2	144.3	142.9	140.0	137.1	134.3	131.4	134.3	137.1	140.0
107.5°	124.3	156.7	172.9	171.7	169.3	166.9	164.5	162.1	164.5	166.9	169.3
110°	158.9	186.6	200.5	199.5	197.5	195.5	193.5	191.5	193.5	195.5	197.5

TEST NUMBER: P1029367

CATALOG NUMBER: S122DIW-B290D435UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	224.4	226.1	226.9	226.0	224.3	222.6	220.8	219.1	220.8	222.6	224.3
115°	259.4	257.0	255.8	255.0	253.4	251.7	250.1	248.5	250.1	251.7	253.4
117.5°	285.1	283.4	282.6	281.6	279.7	277.8	275.9	274.0	275.9	277.8	279.7
120°	311.6	309.9	309.0	308.3	306.8	305.4	303.9	302.5	303.9	305.4	306.8
122.5°	336.5	334.6	333.6	332.8	331.3	329.8	328.2	326.7	328.2	329.8	331.3
125°	359.7	357.9	357.0	356.4	355.1	353.9	352.6	351.4	352.6	353.9	355.1
127.5°	382.1	380.6	379.9	379.2	377.9	376.5	375.2	373.8	375.2	376.5	377.9
130°	403.5	402.4	401.9	401.1	399.6	398.1	396.5	395.0	396.5	398.1	399.6
132.5°	423.8	422.7	422.2	421.6	420.3	419.1	417.8	416.6	417.8	419.1	420.3
135°	443.0	442.1	441.7	440.9	439.4	437.9	436.3	434.8	436.3	437.9	439.4
137.5°	460.4	459.5	459.0	458.4	457.3	456.1	455.0	453.8	455.0	456.1	457.3
140°	477.4	476.3	475.8	475.4	474.7	473.9	473.2	472.4	473.2	473.9	474.7
142.5°	492.8	491.5	490.9	490.6	489.9	489.2	488.6	487.9	488.6	489.2	489.9
145°	506.4	504.7	503.9	503.9	504.0	504.1	504.2	504.3	504.2	504.1	504.0
147.5°	519.8	518.1	517.3	517.4	517.7	518.0	518.3	518.6	518.3	518.0	517.7
150°	531.7	530.2	529.4	529.7	530.4	531.1	531.7	532.4	531.7	531.1	530.4
152.5°	542.8	541.3	540.6	541.0	541.8	542.5	543.3	544.1	543.3	542.5	541.8
155°	553.1	552.0	551.4	551.8	552.7	553.6	554.4	555.3	554.4	553.6	552.7
157.5°	562.3	561.4	561.0	561.4	562.1	562.9	563.6	564.4	563.6	562.9	562.1
160°	570.5	569.9	569.6	569.9	570.5	571.0	571.6	572.2	571.6	571.0	570.5
162.5°	577.2	576.7	576.5	576.8	577.4	577.9	578.5	579.1	578.5	577.9	577.4
165°	583.0	582.7	582.6	582.9	583.5	584.0	584.6	585.2	584.6	584.0	583.5
167.5°	587.7	587.4	587.3	587.6	588.2	588.7	589.3	589.9	589.3	588.7	588.2
170°	591.5	591.3	591.2	591.5	592.1	592.6	593.2	593.8	593.2	592.6	592.1
172.5°	594.1	593.9	593.8	594.1	594.7	595.2	595.8	596.4	595.8	595.2	594.7
175°	595.8	595.6	595.5	595.8	596.5	597.2	597.9	598.6	597.9	597.2	596.5
177.5°	596.5	596.4	596.4	596.7	597.4	598.1	598.7	599.4	598.7	598.1	597.4
180°	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3

TEST NUMBER: P1029367

CATALOG NUMBER: S122DIW-B290D435UB2750-4F0-XX-W2A-A_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°	4.7	5.2	5.6	6.3	7.1	7.8	8.6	9.1	9.6	10.1	10.6
92.5°	9.3	9.1	9.2	9.5	9.8	10.1	10.4	10.6	10.8	10.9	11.1
95°	15.4	13.8	14.1	14.8	15.5	16.2	16.9	17.4	17.8	18.3	18.8
97.5°	19.0	15.1	15.9	17.4	18.9	20.5	22.0	22.3	22.6	22.9	23.2
100°	23.9	17.3	18.1	19.7	21.4	23.0	24.6	25.4	26.2	26.9	27.7
102.5°	104.3	104.2	95.5	78.0	60.5	43.0	25.5	26.6	27.6	28.7	29.8
105°	142.9	144.3	131.2	105.0	78.8	52.6	26.4	27.4	28.5	29.5	30.6
107.5°	171.7	172.9	156.7	124.3	92.0	59.6	27.2	28.3	29.3	30.4	31.5
110°	199.5	200.5	186.6	158.9	131.1	103.4	75.6	66.0	56.4	46.8	37.2

TEST NUMBER: P1029367

CATALOG NUMBER: S122DIW-B290D435UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	226.0	226.9	226.1	224.4	222.8	221.1	219.5	178.1	136.7	95.4	54.0
115°	255.0	255.8	257.0	259.4	261.8	264.2	266.6	222.2	177.7	133.3	88.8
117.5°	281.6	282.6	283.4	285.1	286.7	288.4	290.0	276.3	262.5	248.8	235.1
120°	308.3	309.0	309.9	311.6	313.3	315.1	316.8	318.0	319.1	320.3	321.4
122.5°	332.8	333.6	334.6	336.5	338.4	340.4	342.3	342.9	343.5	344.0	344.6
125°	356.4	357.0	357.9	359.7	361.6	363.4	365.2	365.9	366.5	367.2	367.9
127.5°	379.2	379.9	380.6	382.1	383.5	385.0	386.4	387.4	388.3	389.3	390.2
130°	401.1	401.9	402.4	403.5	404.6	405.6	406.7	407.7	408.8	409.8	410.9
132.5°	421.6	422.2	422.7	423.8	424.9	425.9	427.0	427.9	428.7	429.6	430.5
135°	440.9	441.7	442.1	443.0	443.9	444.7	445.6	446.6	447.5	448.5	449.4
137.5°	458.4	459.0	459.5	460.4	461.4	462.3	463.3	464.3	465.2	466.2	467.1
140°	475.4	475.8	476.3	477.4	478.5	479.5	480.6	481.5	482.3	483.2	484.1
142.5°	490.6	490.9	491.5	492.8	494.1	495.3	496.6	497.4	498.1	498.9	499.6
145°	503.9	503.9	504.7	506.4	508.0	509.7	511.3	512.0	512.6	513.3	514.0
147.5°	517.4	517.3	518.1	519.8	521.4	523.1	524.7	525.2	525.6	526.1	526.6
150°	529.7	529.4	530.2	531.7	533.2	534.8	536.3	536.9	537.5	538.0	538.6
152.5°	541.0	540.6	541.3	542.8	544.2	545.7	547.1	547.7	548.3	548.8	549.4
155°	551.8	551.4	552.0	553.1	554.3	555.4	556.6	557.2	557.8	558.3	558.9
157.5°	561.4	561.0	561.4	562.3	563.1	564.0	564.8	565.5	566.2	566.9	567.6
160°	569.9	569.6	569.9	570.5	571.0	571.6	572.2	572.8	573.4	573.9	574.5
162.5°	576.8	576.5	576.7	577.2	577.7	578.2	578.7	579.4	580.0	580.7	581.4
165°	582.9	582.6	582.7	583.0	583.3	583.6	583.9	584.6	585.2	585.9	586.6
167.5°	587.6	587.3	587.4	587.7	588.0	588.3	588.6	589.3	589.9	590.6	591.3
170°	591.5	591.2	591.3	591.5	591.7	591.9	592.1	592.8	593.4	594.1	594.8
172.5°	594.1	593.8	593.9	594.1	594.3	594.5	594.7	595.4	596.0	596.7	597.4
175°	595.8	595.5	595.6	595.8	596.0	596.2	596.4	597.1	597.7	598.4	599.1
177.5°	596.7	596.4	596.4	596.5	596.6	596.7	596.8	597.5	598.2	598.9	599.6
180°	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3

TEST NUMBER: P1029367

CATALOG NUMBER: S122DIW-B290D435UB2750-4F0-XX-W2A-A_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°	10.8	10.9	11.1	11.3	11.5	11.7	11.5	11.3	11.1	10.9	10.8
92.5°	11.2	11.3	11.4	11.5	11.6	11.7	11.6	11.5	11.4	11.3	11.2
95°	19.0	19.0	18.9	18.8	18.7	18.6	18.7	18.8	18.9	19.0	19.0
97.5°	23.3	23.4	23.5	23.6	23.7	23.8	23.7	23.6	23.5	23.4	23.3
100°	28.1	28.2	28.4	28.6	28.8	29.0	28.8	28.6	28.4	28.2	28.1
102.5°	30.3	30.4	30.7	31.0	31.2	31.5	31.2	31.0	30.7	30.4	30.3
105°	31.1	31.3	31.7	32.0	32.4	32.8	32.4	32.0	31.7	31.3	31.1
107.5°	32.0	32.2	32.6	32.9	33.3	33.7	33.3	32.9	32.6	32.2	32.0
110°	32.4	32.6	33.0	33.3	33.7	34.1	33.7	33.3	33.0	32.6	32.4

TEST NUMBER: P1029367

CATALOG NUMBER: S122DIW-B290D435UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	33.3	33.4	33.7	34.0	34.3	34.6	34.3	34.0	33.7	33.4	33.3
115°	66.6	63.1	56.2	49.3	42.3	35.4	42.3	49.3	56.2	63.1	66.6
117.5°	228.2	215.6	190.5	165.3	140.2	115.0	140.2	165.3	190.5	215.6	228.2
120°	322.0	315.5	302.5	289.6	276.6	263.6	276.6	289.6	302.5	315.5	322.0
122.5°	344.9	344.9	345.0	345.1	345.2	345.3	345.2	345.1	345.0	344.9	344.9
125°	368.2	368.3	368.6	368.9	369.2	369.5	369.2	368.9	368.6	368.3	368.2
127.5°	390.7	390.7	390.8	390.9	391.0	391.1	391.0	390.9	390.8	390.7	390.7
130°	411.4	411.4	411.3	411.2	411.1	411.0	411.1	411.2	411.3	411.4	411.4
132.5°	430.9	430.8	430.7	430.6	430.5	430.4	430.5	430.6	430.7	430.8	430.9
135°	449.9	449.8	449.6	449.4	449.2	449.0	449.2	449.4	449.6	449.8	449.9
137.5°	467.6	467.5	467.2	466.9	466.6	466.3	466.6	466.9	467.2	467.5	467.6
140°	484.5	484.3	483.8	483.3	482.8	482.3	482.8	483.3	483.8	484.3	484.5
142.5°	500.0	499.8	499.3	498.8	498.4	497.9	498.4	498.8	499.3	499.8	500.0
145°	514.3	514.1	513.6	513.1	512.6	512.1	512.6	513.1	513.6	514.1	514.3
147.5°	526.8	526.6	526.2	525.9	525.5	525.1	525.5	525.9	526.2	526.6	526.8
150°	538.9	538.7	538.2	537.7	537.3	536.8	537.3	537.7	538.2	538.7	538.9
152.5°	549.7	549.4	548.7	548.0	547.4	546.7	547.4	548.0	548.7	549.4	549.7
155°	559.2	558.8	558.1	557.3	556.6	555.8	556.6	557.3	558.1	558.8	559.2
157.5°	567.9	567.5	566.7	566.0	565.2	564.4	565.2	566.0	566.7	567.5	567.9
160°	574.8	574.5	573.8	573.1	572.5	571.8	572.5	573.1	573.8	574.5	574.8
162.5°	581.7	581.3	580.4	579.5	578.7	577.8	578.7	579.5	580.4	581.3	581.7
165°	586.9	586.6	585.9	585.2	584.6	583.9	584.6	585.2	585.9	586.6	586.9
167.5°	591.6	591.2	590.3	589.4	588.6	587.7	588.6	589.4	590.3	591.2	591.6
170°	595.1	594.7	593.8	592.9	592.1	591.2	592.1	592.9	593.8	594.7	595.1
172.5°	597.7	597.3	596.4	595.5	594.7	593.8	594.7	595.5	596.4	597.3	597.7
175°	599.4	598.9	598.0	597.0	596.1	595.1	596.1	597.0	598.0	598.9	599.4
177.5°	599.9	599.5	598.6	597.7	596.9	596.0	596.9	597.7	598.6	599.5	599.9
180°	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3

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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°	10.6	10.1	9.6	9.1	8.6	7.8	7.1	6.3	5.6	5.2	4.7
92.5°	11.1	10.9	10.8	10.6	10.4	10.1	9.8	9.5	9.2	9.1	9.3
95°	18.8	18.3	17.8	17.4	16.9	16.2	15.5	14.8	14.1	13.8	15.4
97.5°	23.2	22.9	22.6	22.3	22.0	20.5	18.9	17.4	15.9	15.1	19.0
100°	27.7	26.9	26.2	25.4	24.6	23.0	21.4	19.7	18.1	17.3	23.9
102.5°	29.8	28.7	27.6	26.6	25.5	43.0	60.5	78.0	95.5	104.2	104.3
105°	30.6	29.5	28.5	27.4	26.4	52.6	78.8	105.0	131.2	144.3	142.9
107.5°	31.5	30.4	29.3	28.3	27.2	59.6	92.0	124.3	156.7	172.9	171.7
110°	37.2	46.8	56.4	66.0	75.6	103.4	131.1	158.9	186.6	200.5	199.5

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CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	54.0	95.4	136.7	178.1	219.5	221.1	222.8	224.4	226.1	226.9	226.0
115°	88.8	133.3	177.7	222.2	266.6	264.2	261.8	259.4	257.0	255.8	255.0
117.5°	235.1	248.8	262.5	276.3	290.0	288.4	286.7	285.1	283.4	282.6	281.6
120°	321.4	320.3	319.1	318.0	316.8	315.1	313.3	311.6	309.9	309.0	308.3
122.5°	344.6	344.0	343.5	342.9	342.3	340.4	338.4	336.5	334.6	333.6	332.8
125°	367.9	367.2	366.5	365.9	365.2	363.4	361.6	359.7	357.9	357.0	356.4
127.5°	390.2	389.3	388.3	387.4	386.4	385.0	383.5	382.1	380.6	379.9	379.2
130°	410.9	409.8	408.8	407.7	406.7	405.6	404.6	403.5	402.4	401.9	401.1
132.5°	430.5	429.6	428.7	427.9	427.0	425.9	424.9	423.8	422.7	422.2	421.6
135°	449.4	448.5	447.5	446.6	445.6	444.7	443.9	443.0	442.1	441.7	440.9
137.5°	467.1	466.2	465.2	464.3	463.3	462.3	461.4	460.4	459.5	459.0	458.4
140°	484.1	483.2	482.3	481.5	480.6	479.5	478.5	477.4	476.3	475.8	475.4
142.5°	499.6	498.9	498.1	497.4	496.6	495.3	494.1	492.8	491.5	490.9	490.6
145°	514.0	513.3	512.6	512.0	511.3	509.7	508.0	506.4	504.7	503.9	503.9
147.5°	526.6	526.1	525.6	525.2	524.7	523.1	521.4	519.8	518.1	517.3	517.4
150°	538.6	538.0	537.5	536.9	536.3	534.8	533.2	531.7	530.2	529.4	529.7
152.5°	549.4	548.8	548.3	547.7	547.1	545.7	544.2	542.8	541.3	540.6	541.0
155°	558.9	558.3	557.8	557.2	556.6	555.4	554.3	553.1	552.0	551.4	551.8
157.5°	567.6	566.9	566.2	565.5	564.8	564.0	563.1	562.3	561.4	561.0	561.4
160°	574.5	573.9	573.4	572.8	572.2	571.6	571.0	570.5	569.9	569.6	569.9
162.5°	581.4	580.7	580.0	579.4	578.7	578.2	577.7	577.2	576.7	576.5	576.8
165°	586.6	585.9	585.2	584.6	583.9	583.6	583.3	583.0	582.7	582.6	582.9
167.5°	591.3	590.6	589.9	589.3	588.6	588.3	588.0	587.7	587.4	587.3	587.6
170°	594.8	594.1	593.4	592.8	592.1	591.9	591.7	591.5	591.3	591.2	591.5
172.5°	597.4	596.7	596.0	595.4	594.7	594.5	594.3	594.1	593.9	593.8	594.1
175°	599.1	598.4	597.7	597.1	596.4	596.2	596.0	595.8	595.6	595.5	595.8
177.5°	599.6	598.9	598.2	597.5	596.8	596.7	596.6	596.5	596.4	596.4	596.7
180°	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3

TEST NUMBER: P1029367

CATALOG NUMBER: S122DIW-B290D435UB2750-4F0-XX-W2A-A_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°	3.6	2.5	1.5	0.4
92.5°	9.7	10.0	10.4	10.8
95°	18.6	21.7	24.9	28.1
97.5°	26.9	34.8	42.7	50.6
100°	37.0	50.2	63.3	76.5
102.5°	104.5	104.6	104.8	105.0
105°	140.0	137.1	134.3	131.4
107.5°	169.3	166.9	164.5	162.1
110°	197.5	195.5	193.5	191.5

TEST NUMBER: P1029367

CATALOG NUMBER: S122DIW-B290D435UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	224.3	222.6	220.8	219.1
115°	253.4	251.7	250.1	248.5
117.5°	279.7	277.8	275.9	274.0
120°	306.8	305.4	303.9	302.5
122.5°	331.3	329.8	328.2	326.7
125°	355.1	353.9	352.6	351.4
127.5°	377.9	376.5	375.2	373.8
130°	399.6	398.1	396.5	395.0
132.5°	420.3	419.1	417.8	416.6
135°	439.4	437.9	436.3	434.8
137.5°	457.3	456.1	455.0	453.8
140°	474.7	473.9	473.2	472.4
142.5°	489.9	489.2	488.6	487.9
145°	504.0	504.1	504.2	504.3
147.5°	517.7	518.0	518.3	518.6
150°	530.4	531.1	531.7	532.4
152.5°	541.8	542.5	543.3	544.1
155°	552.7	553.6	554.4	555.3
157.5°	562.1	562.9	563.6	564.4
160°	570.5	571.0	571.6	572.2
162.5°	577.4	577.9	578.5	579.1
165°	583.5	584.0	584.6	585.2
167.5°	588.2	588.7	589.3	589.9
170°	592.1	592.6	593.2	593.8
172.5°	594.7	595.2	595.8	596.4
175°	596.5	597.2	597.9	598.6
177.5°	597.4	598.1	598.7	599.4
180°	597.3	597.3	597.3	597.3

(END OF REPORT)