

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: P1029361

Luminaire Tested: S122DIW-B290D435UB2750-4F0-XX-W2A-A1_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029361
REPORT IS A COMBINATION OF REPORTS P985657 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_2700K
Description: Define 2 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

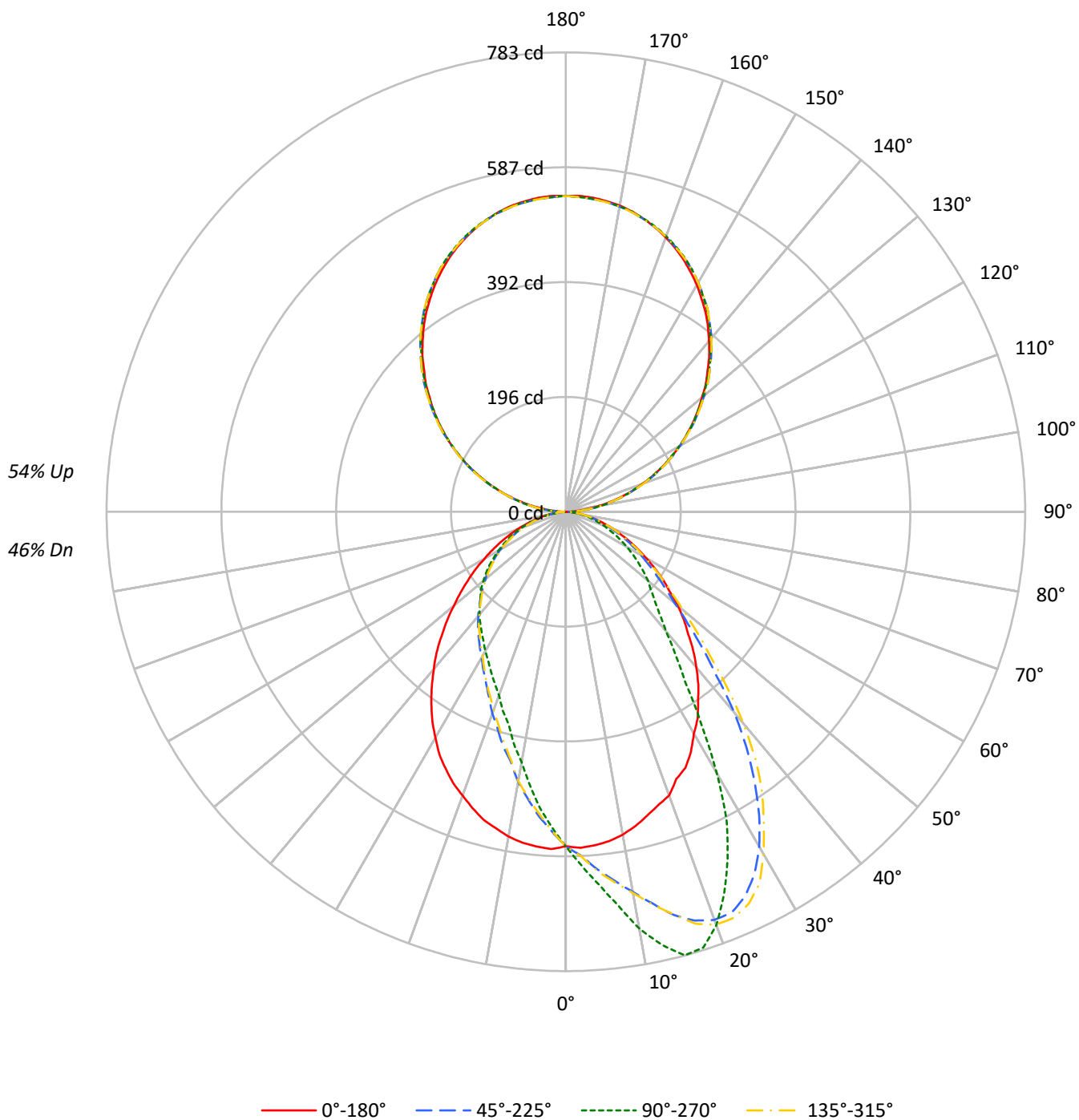
Lumens per Lamp: N/A
Luminaire Lumens: 2764.0 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.23
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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°	9026	9026	9026	9026
5°	9047	9623	9082	7656
10°	8942	10506	8998	6312
15°	8725	11080	8846	5317
20°	8589	10405	8589	4622
25°	8316	8938	8353	4132
30°	7865	7027	8014	3744
35°	7466	4859	7591	3424
40°	7007	3669	7088	3171
45°	6443	3015	6548	2896
50°	5952	2646	5964	2652
55°	5396	2254	5430	2386
60°	4801	1883	4867	2082
65°	4269	1532	4348	1779
70°	3737	1201	3833	1435
75°	3138	873	3261	1039
80°	2451	553	2627	618
85°	1610	277	1737	207

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°

Vertical Angle: 45°

Luminance: 9330 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.3	2.0
10°-20°	158.1	5.7
20°-30°	229.4	8.3
30°-40°	241.8	8.7
40°-50°	214.0	7.7
50°-60°	170.9	6.2
60°-70°	116.1	4.2
70°-80°	59.4	2.1
80°-90°	15.6	0.6
90°-100°	33.3	1.2
100°-110°	105.8	3.8
110°-120°	181.1	6.6
120°-130°	238.1	8.6
130°-140°	267.3	9.7
140°-150°	262.1	9.5
150°-160°	219.9	8.0
160°-170°	145.8	5.3
170°-180°	51.0	1.8
0°-30°	441.8	16.0
0°-40°	683.6	24.7
0°-60°	1068.5	38.7
0°-90°	1259.5	45.6
90°-120°	320.2	11.6
90°-150°	1087.8	39.4
90°-180°	1504.0	54.4
0°-180°	2764.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	570	570	570	570	570	
5°	571	637	573	507	571	54
15°	536	783	543	376	536	151
25°	482	652	484	302	482	220
35°	393	355	400	250	393	246
45°	295	214	300	206	295	229
55°	202	150	204	159	202	181
65°	120	92	122	107	120	119
75°	56	46	58	54	56	60
85°	11	12	12	9	11	13
90°	0	15	0	15	0	2
95°	24	28	24	28	24	26
105°	98	101	98	101	98	103
115°	182	182	182	182	182	180
125°	264	265	264	265	264	236
135°	342	346	342	346	342	264
145°	415	420	415	420	415	259
155°	474	478	474	478	474	218
165°	516	517	516	517	516	146
175°	537	535	537	535	537	51
180°	538	538	538	538	538	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2
2.5°	573.3	574.6	576.8	577.2	581.6	585.1	589.0	589.0	590.3	589.9	586.4
5°	570.6	574.6	580.3	585.1	593.0	596.5	601.7	605.7	609.2	611.8	611.4
7.5°	566.2	573.3	581.6	590.8	601.3	607.4	614.9	621.9	626.7	631.1	634.2
10°	558.8	570.6	582.0	594.3	607.9	616.2	625.0	634.2	641.6	649.9	657.8
12.5°	548.7	565.8	579.8	596.0	612.7	621.9	635.9	642.9	657.4	678.4	684.1
15°	536.0	559.2	572.4	593.0	614.9	622.3	641.6	653.0	682.8	696.0	711.7
17.5°	524.2	550.0	567.6	591.2	612.7	627.2	646.0	669.2	694.2	713.1	730.6
20°	514.5	539.5	560.5	586.8	614.0	632.4	652.1	680.2	707.4	726.6	740.2
22.5°	492.6	524.6	549.1	578.5	611.4	636.8	655.6	686.3	715.7	727.5	739.4
25°	481.7	509.3	537.8	571.1	609.6	639.9	656.1	690.3	716.1	720.5	723.1
27.5°	461.5	492.6	525.9	564.0	609.2	634.6	655.2	686.3	706.9	703.9	696.0
30°	436.5	474.6	511.5	552.7	603.1	630.7	649.9	678.4	689.0	673.2	659.2
32.5°	418.1	454.0	494.8	542.6	596.0	622.3	641.2	663.5	665.7	637.2	613.6
35°	393.1	433.0	479.0	529.4	584.2	607.9	625.4	639.0	628.5	588.6	560.5
37.5°	370.8	410.2	459.3	510.6	568.0	591.2	605.2	607.4	581.6	546.5	505.3
40°	346.2	387.0	438.3	492.2	550.0	570.2	578.9	572.4	535.1	494.4	446.6
42.5°	321.7	362.0	417.2	472.5	527.2	544.3	547.8	529.9	484.3	436.5	381.3
45°	295.0	337.0	392.2	447.9	500.9	510.6	511.0	485.2	431.3	381.3	330.0
47.5°	273.0	312.0	366.8	422.5	467.2	473.8	471.1	441.3	382.6	326.5	281.8
50°	248.9	286.2	340.5	395.3	433.4	435.2	428.6	386.1	328.7	277.4	241.9
52.5°	223.1	260.8	310.7	363.3	397.5	394.9	382.2	336.6	282.7	240.2	213.0
55°	202.5	235.8	282.7	334.0	358.1	350.6	336.6	290.1	247.6	211.7	188.0
57.5°	179.7	209.1	255.1	299.8	313.8	306.8	292.8	249.4	209.9	182.8	167.0
60°	158.2	184.9	225.3	262.5	273.5	266.0	249.8	210.8	182.3	159.5	147.7
62.5°	138.5	161.7	195.5	229.7	234.0	226.6	212.6	181.0	156.5	138.5	129.7
65°	120.1	142.0	169.2	195.0	199.0	191.1	176.6	153.8	133.2	121.8	113.5
67.5°	102.1	119.6	143.8	162.6	164.8	157.3	145.5	127.1	114.4	102.1	96.0
70°	86.3	99.5	118.3	133.7	134.5	127.5	121.4	104.7	95.1	86.3	81.5
72.5°	71.0	80.2	94.7	106.1	106.5	102.1	96.4	85.9	77.6	71.4	66.6
75°	56.1	64.0	72.8	82.8	82.4	78.9	74.5	67.9	60.9	57.0	54.8
77.5°	43.0	47.8	54.8	61.4	61.4	59.6	57.0	52.2	47.8	43.8	41.6
80°	30.7	33.7	39.4	41.6	42.5	42.1	39.9	36.4	34.6	31.6	30.7
82.5°	19.7	21.9	24.5	26.7	28.0	27.2	26.7	25.0	22.4	21.5	20.6
85°	11.4	12.3	13.6	14.9	15.3	14.9	15.8	14.5	13.1	13.1	12.7
87.5°	4.8	5.3	6.1	6.1	6.6	6.6	6.1	6.6	6.6	6.1	5.7
90°	0.5	1.7	2.9	4.1	5.3	5.9	7.0	9.2	11.5	13.7	15.9
92.5°	10.0	10.8	11.6	12.4	13.2	13.6	13.7	13.8	13.9	14.0	14.1
95°	23.6	24.6	25.6	26.7	27.7	28.2	28.3	28.5	28.7	28.9	29.1
97.5°	39.5	40.4	41.3	42.2	43.1	43.6	43.8	44.2	44.6	45.0	45.4
100°	57.7	58.5	59.3	60.1	60.9	61.3	61.5	61.8	62.1	62.4	62.7
102.5°	76.7	77.3	77.9	78.6	79.2	79.5	79.7	80.1	80.5	80.9	81.3
105°	97.6	97.9	98.2	98.5	98.8	99.0	99.1	99.3	99.5	99.7	99.9
107.5°	118.5	118.9	119.3	119.7	120.1	120.3	120.3	120.3	120.3	120.3	120.3
110°	138.5	139.1	139.7	140.3	140.9	141.2	141.2	141.2	141.2	141.2	141.2

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	160.3	160.9	161.5	162.1	162.7	163.0	163.0	162.9	162.8	162.7	162.6
115°	181.6	182.2	182.8	183.5	184.1	184.4	184.3	184.1	183.9	183.7	183.5
117.5°	203.0	203.8	204.6	205.4	206.2	206.6	206.3	205.8	205.3	204.8	204.3
120°	224.3	225.1	225.9	226.8	227.6	228.0	227.6	226.8	225.9	225.1	224.3
122.5°	243.9	244.9	245.9	246.9	247.9	248.4	248.1	247.6	247.1	246.6	246.1
125°	264.3	265.2	266.1	267.0	267.9	268.4	268.2	267.9	267.6	267.3	267.0
127.5°	284.3	285.4	286.5	287.6	288.7	289.3	289.1	288.7	288.2	287.8	287.4
130°	302.9	304.2	305.5	306.8	308.1	308.8	308.7	308.5	308.3	308.1	307.9
132.5°	323.8	324.8	325.8	326.8	327.8	328.3	328.4	328.5	328.6	328.7	328.8
135°	341.9	343.0	344.1	345.2	346.3	346.9	347.0	347.2	347.4	347.6	347.8
137.5°	361.9	362.8	363.7	364.6	365.5	366.0	366.1	366.3	366.5	366.7	366.9
140°	379.6	380.5	381.4	382.3	383.2	383.7	384.0	384.5	385.0	385.5	386.0
142.5°	397.8	398.7	399.6	400.5	401.4	401.9	402.0	402.3	402.6	402.9	403.2
145°	415.1	415.8	416.5	417.2	417.9	418.2	418.5	419.1	419.8	420.4	421.0
147.5°	430.5	431.4	432.3	433.2	434.1	434.6	434.8	435.2	435.6	436.0	436.4
150°	446.4	447.0	447.6	448.2	448.8	449.1	449.3	449.7	450.1	450.5	450.9
152.5°	460.5	461.1	461.7	462.3	462.9	463.2	463.5	464.0	464.5	465.0	465.5
155°	474.5	474.8	475.1	475.4	475.7	475.9	476.1	476.4	476.7	477.0	477.3
157.5°	486.8	487.0	487.2	487.4	487.6	487.7	487.8	488.0	488.2	488.4	488.6
160°	497.7	497.9	498.1	498.3	498.5	498.6	498.7	498.8	498.9	499.0	499.1
162.5°	507.7	507.7	507.7	507.7	507.7	507.7	507.7	507.8	507.9	508.0	508.1
165°	516.3	516.2	516.1	516.0	515.9	515.9	515.9	515.9	515.9	515.9	515.9
167.5°	524.0	523.7	523.4	523.1	522.8	522.7	522.7	522.7	522.7	522.7	522.7
170°	529.9	529.6	529.3	529.0	528.7	528.6	528.5	528.4	528.3	528.2	528.1
172.5°	534.0	533.7	533.4	533.1	532.8	532.7	532.6	532.5	532.4	532.3	532.2
175°	537.2	536.9	536.6	536.3	536.0	535.8	535.7	535.5	535.3	535.1	534.9
177.5°	539.0	538.7	538.4	538.1	537.8	537.7	537.6	537.4	537.2	537.0	536.8
180°	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2
2.5°	592.5	593.0	593.9	598.2	600.4	600.9	599.1	603.1	604.4	603.1	602.2
5°	620.6	623.2	628.5	634.2	633.7	634.2	636.8	639.4	640.3	636.8	638.1
7.5°	645.1	650.4	656.1	664.8	664.8	669.2	671.0	673.2	678.4	675.8	674.9
10°	673.2	680.2	690.7	704.7	705.2	709.6	713.9	720.9	723.1	721.4	722.3
12.5°	708.2	721.8	722.7	738.0	745.1	745.9	752.9	751.6	756.0	756.0	763.5
15°	723.6	744.6	756.4	771.3	775.7	770.5	776.2	782.3	782.7	782.7	782.3
17.5°	751.2	759.5	771.3	779.2	781.0	781.0	781.4	784.1	782.3	778.8	781.4
20°	756.9	760.4	764.8	763.9	764.8	760.4	756.0	751.6	752.1	749.9	756.4
22.5°	746.4	745.5	735.4	728.8	728.8	720.1	711.7	707.8	703.9	705.2	707.4
25°	720.1	706.5	694.2	684.6	682.4	668.4	657.0	653.5	646.9	652.1	653.0
27.5°	678.0	662.7	642.9	634.6	623.2	617.5	609.6	599.1	585.5	593.4	592.1
30°	632.9	610.1	593.9	573.7	555.7	554.4	539.5	522.0	515.0	515.0	518.9
32.5°	582.5	552.2	528.5	500.1	482.5	475.1	457.1	439.6	443.5	430.4	435.2
35°	523.7	483.8	454.0	426.4	413.3	404.5	381.3	371.6	361.1	355.0	366.4
37.5°	467.6	421.6	383.5	353.2	348.4	332.6	316.9	310.7	304.6	307.2	306.8
40°	399.3	358.5	324.3	300.7	292.3	284.9	274.4	266.9	263.0	265.2	265.6
42.5°	337.5	303.3	277.9	261.2	254.2	248.9	243.7	237.5	236.2	236.2	238.0
45°	289.7	261.6	244.6	231.0	227.0	223.1	219.1	216.5	215.6	213.9	215.2
47.5°	251.6	229.2	218.7	208.6	204.2	203.4	199.8	198.5	196.8	196.3	196.8
50°	219.6	205.5	195.9	190.2	187.1	185.8	184.1	181.4	180.6	182.8	181.9
52.5°	197.2	184.1	178.8	173.1	171.4	169.6	167.0	167.4	167.0	166.1	166.1
55°	174.9	166.5	161.3	156.9	156.5	154.7	152.5	151.6	151.2	150.3	151.6
57.5°	156.9	150.3	145.5	141.6	139.8	139.8	137.6	135.9	135.9	135.4	135.9
60°	138.9	132.4	129.3	125.3	124.0	123.6	122.3	121.4	120.1	120.1	120.1
62.5°	122.3	117.0	113.5	110.0	110.4	108.3	106.5	105.6	105.6	106.1	106.1
65°	106.5	103.0	98.6	95.5	94.7	94.2	93.4	92.9	91.6	92.5	92.5
67.5°	92.0	87.2	84.6	83.3	82.0	81.5	80.6	79.8	79.3	78.9	79.8
70°	77.6	73.6	71.4	70.6	69.2	68.8	68.4	67.1	67.5	67.9	68.4
72.5°	64.4	60.9	60.5	57.9	57.9	57.9	56.1	57.0	56.5	55.7	56.5
75°	50.8	49.1	48.2	46.9	47.3	46.9	46.5	45.1	45.1	45.6	46.0
77.5°	40.3	38.6	38.1	36.8	35.9	36.8	35.9	35.5	35.5	35.9	35.9
80°	29.8	28.9	27.6	27.6	27.6	27.2	27.2	27.2	26.7	26.3	26.7
82.5°	19.7	19.7	19.3	18.8	19.3	18.4	18.8	18.8	18.8	18.8	18.8
85°	12.7	12.3	12.3	11.8	11.8	11.8	12.3	11.4	11.4	11.8	11.8
87.5°	5.7	5.7	5.7	6.1	5.7	5.7	5.7	6.1	5.7	5.7	5.7
90°	15.7	15.5	15.3	15.1	15.0	15.0	15.1	15.2	15.3	15.4	15.3
92.5°	14.2	14.3	14.4	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
95°	29.1	29.1	29.1	29.1	29.1	29.0	28.8	28.6	28.4	28.2	28.4
97.5°	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4
100°	62.7	62.7	62.7	62.7	62.7	62.6	62.5	62.4	62.3	62.2	62.3
102.5°	81.4	81.5	81.6	81.7	81.7	81.7	81.6	81.5	81.4	81.3	81.4
105°	100.1	100.3	100.5	100.7	100.8	100.8	100.8	100.8	100.8	100.8	100.8
107.5°	120.4	120.5	120.6	120.7	120.8	120.5	120.0	119.5	119.0	118.5	119.0
110°	141.2	141.2	141.2	141.2	141.2	141.1	140.8	140.5	140.2	139.9	140.2

TEST NUMBER: P1029361

CATALOG NUMBER: S122DIW-B290D435UB2750-4F0-XX-W2A-A1_2700K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	162.3	162.0	161.7	161.4	161.2	161.1	160.9	160.7	160.5	160.3	160.5
115°	183.4	183.3	183.2	183.1	183.0	182.8	182.5	182.2	181.9	181.6	181.9
117.5°	204.0	203.7	203.4	203.1	203.0	202.8	202.5	202.2	201.9	201.6	201.9
120°	224.3	224.3	224.3	224.3	224.3	224.2	223.9	223.6	223.3	223.0	223.3
122.5°	245.8	245.5	245.2	244.9	244.8	244.7	244.5	244.3	244.1	243.9	244.1
125°	266.7	266.4	266.1	265.8	265.7	265.6	265.5	265.4	265.3	265.2	265.3
127.5°	287.0	286.6	286.2	285.8	285.6	285.5	285.2	284.9	284.6	284.3	284.6
130°	307.7	307.5	307.3	307.1	307.0	306.8	306.4	306.0	305.6	305.2	305.6
132.5°	328.3	327.8	327.3	326.8	326.5	326.3	326.0	325.7	325.4	325.1	325.4
135°	347.7	347.6	347.5	347.4	347.4	347.2	346.9	346.6	346.3	346.0	346.3
137.5°	366.8	366.7	366.6	366.5	366.5	366.3	365.9	365.4	365.0	364.6	365.0
140°	386.0	386.0	386.0	386.0	386.0	385.8	385.4	385.0	384.6	384.2	384.6
142.5°	403.3	403.4	403.5	403.6	403.7	403.5	403.1	402.7	402.3	401.9	402.3
145°	421.1	421.2	421.3	421.4	421.4	421.2	420.8	420.4	420.0	419.6	420.0
147.5°	436.6	436.8	437.0	437.2	437.3	437.1	436.7	436.3	435.9	435.5	435.9
150°	451.2	451.5	451.8	452.1	452.3	452.1	451.8	451.5	451.2	450.9	451.2
152.5°	465.9	466.3	466.7	467.1	467.3	467.1	466.7	466.3	465.9	465.5	465.9
155°	477.8	478.3	478.8	479.3	479.5	479.4	479.1	478.8	478.5	478.2	478.5
157.5°	489.3	490.0	490.7	491.4	491.8	491.5	491.0	490.5	490.0	489.5	490.0
160°	499.7	500.3	500.9	501.5	501.8	501.6	501.2	500.8	500.4	500.0	500.4
162.5°	508.8	509.5	510.2	510.9	511.3	511.1	510.6	510.1	509.6	509.1	509.6
165°	516.6	517.3	518.0	518.7	519.0	518.8	518.3	517.8	517.3	516.8	517.3
167.5°	523.4	524.1	524.8	525.5	525.9	525.6	525.1	524.6	524.1	523.6	524.1
170°	528.8	529.5	530.2	530.9	531.3	531.0	530.4	529.8	529.2	528.6	529.2
172.5°	532.9	533.6	534.3	535.0	535.4	535.1	534.5	533.9	533.3	532.7	533.3
175°	535.6	536.3	537.0	537.7	538.1	537.8	537.2	536.6	536.0	535.4	536.0
177.5°	537.4	538.0	538.6	539.2	539.5	539.2	538.6	538.0	537.4	536.8	537.4
180°	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1

TEST NUMBER: P1029361

CATALOG NUMBER: S122DIW-B290D435UB2750-4F0-XX-W2A-A1_2700K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2
2.5°	604.4	601.3	598.7	599.1	601.3	599.5	595.2	589.5	587.3	584.6	587.3
5°	640.7	638.1	632.9	633.3	632.0	630.2	623.2	614.4	614.4	607.4	606.6
7.5°	676.7	672.7	669.2	668.4	663.5	660.0	653.9	641.6	636.8	628.5	623.7
10°	717.0	713.9	710.0	705.2	702.5	696.4	686.3	668.4	659.6	648.2	639.9
12.5°	757.8	757.3	748.6	738.9	738.5	728.8	721.8	697.7	685.9	670.5	650.8
15°	783.6	781.4	776.6	771.8	773.1	762.6	746.8	718.3	710.4	692.0	671.0
17.5°	783.2	783.2	781.9	781.0	779.7	776.6	767.8	749.0	736.3	713.1	693.3
20°	758.2	763.9	765.2	764.8	769.2	771.3	770.9	759.1	749.0	728.4	708.2
22.5°	708.2	721.4	727.1	730.6	739.8	744.6	756.0	751.6	749.0	733.7	716.6
25°	661.8	666.2	683.3	684.1	696.8	708.7	720.1	727.5	737.2	731.5	717.0
27.5°	601.7	611.8	624.1	633.3	635.9	660.0	678.9	692.9	714.8	716.6	711.7
30°	533.8	538.6	558.8	571.1	585.1	602.6	629.8	653.9	673.6	691.6	697.7
32.5°	451.0	470.7	482.5	497.4	509.7	540.8	574.1	605.2	628.0	658.3	671.4
35°	375.2	390.5	410.7	416.8	439.1	465.4	508.8	548.7	583.3	614.0	640.7
37.5°	312.5	324.8	346.2	355.9	369.0	402.8	439.1	488.7	530.3	568.0	601.3
40°	269.5	278.7	295.0	298.0	309.0	339.7	369.0	415.5	470.7	521.5	557.9
42.5°	240.2	244.6	255.5	259.5	266.5	287.1	313.4	357.2	408.5	461.1	512.3
45°	219.1	222.2	228.8	232.3	241.0	250.2	271.7	306.8	347.1	400.1	455.4
47.5°	200.3	204.2	206.9	209.1	213.9	224.0	238.0	263.8	302.4	351.1	404.5
50°	184.5	185.8	190.6	191.1	194.2	200.7	213.9	229.7	260.3	299.8	351.5
52.5°	168.7	170.0	173.1	176.2	177.5	182.8	191.5	204.7	227.5	258.6	304.6
55°	153.0	154.7	157.8	160.0	161.3	165.7	170.9	183.6	201.6	223.5	261.2
57.5°	137.2	141.1	142.0	143.3	145.5	150.3	155.1	162.6	176.6	196.8	224.4
60°	122.3	123.6	126.7	128.0	130.2	132.8	138.9	144.6	154.7	170.5	195.5
62.5°	106.9	110.0	111.3	112.6	114.4	117.5	121.4	127.5	136.3	149.0	168.7
65°	93.8	94.2	96.9	98.6	100.4	102.6	106.5	112.2	117.5	129.3	143.8
67.5°	81.1	82.0	82.8	84.6	86.8	89.0	92.5	95.5	102.1	110.0	121.4
70°	68.8	68.8	71.0	72.3	71.9	74.5	77.1	80.6	85.5	92.9	102.1
72.5°	57.9	57.4	59.2	59.6	60.5	62.2	64.0	67.5	70.1	75.8	82.8
75°	46.0	46.9	47.8	47.8	49.1	50.4	52.2	53.9	57.0	60.5	65.7
77.5°	36.4	36.4	37.3	37.7	39.0	38.6	40.3	42.1	44.3	47.3	51.3
80°	26.7	27.6	27.6	27.6	28.0	28.5	30.2	31.6	32.9	35.1	36.8
82.5°	18.8	18.8	19.7	19.7	19.7	20.6	20.6	21.0	21.9	23.2	24.5
85°	11.8	11.8	11.8	12.3	11.8	12.3	13.1	12.7	13.1	14.0	14.0
87.5°	5.7	5.7	5.7	5.7	5.7	6.1	5.7	6.1	6.6	6.6	6.6
90°	15.2	15.1	15.0	15.0	15.1	15.3	15.5	15.7	15.9	13.7	11.5
92.5°	14.5	14.5	14.5	14.5	14.5	14.4	14.3	14.2	14.1	14.0	13.9
95°	28.6	28.8	29.0	29.1	29.1	29.1	29.1	29.1	29.1	28.9	28.7
97.5°	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.0	44.6
100°	62.4	62.5	62.6	62.7	62.7	62.7	62.7	62.7	62.7	62.4	62.1
102.5°	81.5	81.6	81.7	81.7	81.7	81.6	81.5	81.4	81.3	80.9	80.5
105°	100.8	100.8	100.8	100.8	100.7	100.5	100.3	100.1	99.9	99.7	99.5
107.5°	119.5	120.0	120.5	120.8	120.7	120.6	120.5	120.4	120.3	120.3	120.3
110°	140.5	140.8	141.1	141.2	141.2	141.2	141.2	141.2	141.2	141.2	141.2

TEST NUMBER: P1029361

CATALOG NUMBER: S122DIW-B290D435UB2750-4F0-XX-W2A-A1_2700K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	160.7	160.9	161.1	161.2	161.4	161.7	162.0	162.3	162.6	162.7	162.8
115°	182.2	182.5	182.8	183.0	183.1	183.2	183.3	183.4	183.5	183.7	183.9
117.5°	202.2	202.5	202.8	203.0	203.1	203.4	203.7	204.0	204.3	204.8	205.3
120°	223.6	223.9	224.2	224.3	224.3	224.3	224.3	224.3	224.3	225.1	225.9
122.5°	244.3	244.5	244.7	244.8	244.9	245.2	245.5	245.8	246.1	246.6	247.1
125°	265.4	265.5	265.6	265.7	265.8	266.1	266.4	266.7	267.0	267.3	267.6
127.5°	284.9	285.2	285.5	285.6	285.8	286.2	286.6	287.0	287.4	287.8	288.2
130°	306.0	306.4	306.8	307.0	307.1	307.3	307.5	307.7	307.9	308.1	308.3
132.5°	325.7	326.0	326.3	326.5	326.8	327.3	327.8	328.3	328.8	328.7	328.6
135°	346.6	346.9	347.2	347.4	347.4	347.5	347.6	347.7	347.8	347.6	347.4
137.5°	365.4	365.9	366.3	366.5	366.5	366.6	366.7	366.8	366.9	366.7	366.5
140°	385.0	385.4	385.8	386.0	386.0	386.0	386.0	386.0	386.0	385.5	385.0
142.5°	402.7	403.1	403.5	403.7	403.6	403.5	403.4	403.3	403.2	402.9	402.6
145°	420.4	420.8	421.2	421.4	421.4	421.3	421.2	421.1	421.0	420.4	419.8
147.5°	436.3	436.7	437.1	437.3	437.2	437.0	436.8	436.6	436.4	436.0	435.6
150°	451.5	451.8	452.1	452.3	452.1	451.8	451.5	451.2	450.9	450.5	450.1
152.5°	466.3	466.7	467.1	467.3	467.1	466.7	466.3	465.9	465.5	465.0	464.5
155°	478.8	479.1	479.4	479.5	479.3	478.8	478.3	477.8	477.3	477.0	476.7
157.5°	490.5	491.0	491.5	491.8	491.4	490.7	490.0	489.3	488.6	488.4	488.2
160°	500.8	501.2	501.6	501.8	501.5	500.9	500.3	499.7	499.1	499.0	498.9
162.5°	510.1	510.6	511.1	511.3	510.9	510.2	509.5	508.8	508.1	508.0	507.9
165°	517.8	518.3	518.8	519.0	518.7	518.0	517.3	516.6	515.9	515.9	515.9
167.5°	524.6	525.1	525.6	525.9	525.5	524.8	524.1	523.4	522.7	522.7	522.7
170°	529.8	530.4	531.0	531.3	530.9	530.2	529.5	528.8	528.1	528.2	528.3
172.5°	533.9	534.5	535.1	535.4	535.0	534.3	533.6	532.9	532.2	532.3	532.4
175°	536.6	537.2	537.8	538.1	537.7	537.0	536.3	535.6	534.9	535.1	535.3
177.5°	538.0	538.6	539.2	539.5	539.2	538.6	538.0	537.4	536.8	537.0	537.2
180°	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1

TEST NUMBER: P1029361

CATALOG NUMBER: S122DIW-B290D435UB2750-4F0-XX-W2A-A1_2700K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2
2.5°	585.1	582.9	581.6	582.5	579.8	573.3	573.3	575.4	572.8	570.2	566.2
5°	601.3	596.9	594.3	593.9	587.7	577.2	575.0	572.8	567.1	561.0	554.4
7.5°	617.1	609.2	604.8	601.7	593.0	579.4	573.7	568.9	559.7	550.5	542.1
10°	630.2	618.8	613.6	608.8	597.4	580.3	571.1	562.3	550.5	538.6	528.1
12.5°	640.7	627.6	621.0	614.0	600.0	577.6	566.2	552.2	540.4	524.6	514.1
15°	658.3	631.1	625.0	618.4	603.9	573.3	559.2	543.4	527.2	506.2	494.8
17.5°	672.3	635.9	635.5	621.5	602.6	571.5	550.0	529.4	511.9	490.9	472.9
20°	680.6	643.4	636.4	621.9	598.2	559.7	537.3	514.5	495.7	470.3	452.3
22.5°	687.6	653.9	635.5	618.0	589.0	555.7	522.9	501.4	475.5	447.9	430.8
25°	690.3	656.1	636.8	616.6	582.5	544.3	507.1	483.8	454.9	429.9	406.7
27.5°	690.7	655.6	632.0	610.9	573.3	529.4	491.3	466.8	434.8	405.8	382.6
30°	686.3	650.8	629.4	606.6	564.5	515.8	472.0	444.8	410.7	381.7	357.6
32.5°	673.2	641.2	623.7	598.7	553.1	497.0	453.6	423.4	387.4	358.9	335.7
35°	651.3	629.4	610.1	586.8	538.2	479.5	435.2	399.7	363.3	336.2	314.2
37.5°	624.1	612.3	594.3	571.5	521.1	463.7	414.6	375.2	338.8	312.5	291.0
40°	587.3	590.3	572.8	552.2	500.9	442.2	387.9	350.2	316.0	291.4	270.4
42.5°	547.4	560.1	550.0	530.3	478.6	418.5	368.1	326.5	293.2	267.8	250.2
45°	504.4	526.4	520.2	505.8	455.4	393.6	340.1	299.8	270.4	245.9	230.5
47.5°	457.5	488.7	488.7	478.1	429.5	368.6	316.0	274.8	245.9	228.3	213.4
50°	409.8	444.8	450.5	443.5	400.6	340.1	286.6	249.4	224.4	207.3	196.3
52.5°	359.8	400.6	411.1	407.6	369.9	312.9	262.5	226.1	203.4	188.5	178.8
55°	312.0	359.4	370.8	372.1	337.0	283.1	235.8	203.8	181.9	171.8	163.5
57.5°	266.9	312.5	325.2	327.4	303.7	255.9	210.8	182.8	163.0	154.7	148.1
60°	228.3	266.5	283.1	287.9	267.3	224.4	187.6	160.4	145.5	137.6	131.5
62.5°	196.8	227.5	245.0	246.3	237.1	196.8	163.5	140.7	128.0	121.0	117.9
65°	166.1	193.7	204.2	209.5	202.0	170.5	141.1	122.3	112.2	106.1	103.0
67.5°	141.6	159.1	167.9	174.9	167.4	143.8	120.1	104.7	97.3	91.2	89.4
70°	116.1	130.6	137.2	144.2	137.6	119.6	102.6	88.5	82.0	77.1	74.9
72.5°	92.9	104.3	110.4	114.8	110.9	96.0	82.0	72.3	67.5	64.0	62.7
75°	73.6	81.5	85.0	88.1	86.3	74.9	66.2	58.3	53.9	50.8	50.0
77.5°	56.1	61.8	65.7	66.6	64.4	57.0	49.5	44.7	41.2	39.4	38.6
80°	39.9	43.4	45.6	46.9	44.7	41.6	36.4	32.9	29.8	27.6	27.2
82.5°	26.7	28.5	30.2	29.8	28.9	26.3	23.2	21.5	20.2	18.4	18.4
85°	15.3	15.8	16.7	17.1	16.7	14.9	13.1	12.3	11.4	10.1	10.1
87.5°	6.6	7.0	7.0	7.5	6.6	6.6	5.7	4.8	4.8	4.4	3.9
90°	9.2	7.0	5.9	5.3	4.1	2.9	1.7	0.5	1.7	2.9	4.1
92.5°	13.8	13.7	13.6	13.2	12.4	11.6	10.8	10.0	10.8	11.6	12.4
95°	28.5	28.3	28.2	27.7	26.7	25.6	24.6	23.6	24.6	25.6	26.7
97.5°	44.2	43.8	43.6	43.1	42.2	41.3	40.4	39.5	40.4	41.3	42.2
100°	61.8	61.5	61.3	60.9	60.1	59.3	58.5	57.7	58.5	59.3	60.1
102.5°	80.1	79.7	79.5	79.2	78.6	77.9	77.3	76.7	77.3	77.9	78.6
105°	99.3	99.1	99.0	98.8	98.5	98.2	97.9	97.6	97.9	98.2	98.5
107.5°	120.3	120.3	120.3	120.1	119.7	119.3	118.9	118.5	118.9	119.3	119.7
110°	141.2	141.2	141.2	140.9	140.3	139.7	139.1	138.5	139.1	139.7	140.3



TEST NUMBER: P1029361

CATALOG NUMBER: S122DIW-B290D435UB2750-4F0-XX-W2A-A1_2700K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	162.9	163.0	163.0	162.7	162.1	161.5	160.9	160.3	160.9	161.5	162.1
115°	184.1	184.3	184.4	184.1	183.5	182.8	182.2	181.6	182.2	182.8	183.5
117.5°	205.8	206.3	206.6	206.2	205.4	204.6	203.8	203.0	203.8	204.6	205.4
120°	226.8	227.6	228.0	227.6	226.8	225.9	225.1	224.3	225.1	225.9	226.8
122.5°	247.6	248.1	248.4	247.9	246.9	245.9	244.9	243.9	244.9	245.9	246.9
125°	267.9	268.2	268.4	267.9	267.0	266.1	265.2	264.3	265.2	266.1	267.0
127.5°	288.7	289.1	289.3	288.7	287.6	286.5	285.4	284.3	285.4	286.5	287.6
130°	308.5	308.7	308.8	308.1	306.8	305.5	304.2	302.9	304.2	305.5	306.8
132.5°	328.5	328.4	328.3	327.8	326.8	325.8	324.8	323.8	324.8	325.8	326.8
135°	347.2	347.0	346.9	346.3	345.2	344.1	343.0	341.9	343.0	344.1	345.2
137.5°	366.3	366.1	366.0	365.5	364.6	363.7	362.8	361.9	362.8	363.7	364.6
140°	384.5	384.0	383.7	383.2	382.3	381.4	380.5	379.6	380.5	381.4	382.3
142.5°	402.3	402.0	401.9	401.4	400.5	399.6	398.7	397.8	398.7	399.6	400.5
145°	419.1	418.5	418.2	417.9	417.2	416.5	415.8	415.1	415.8	416.5	417.2
147.5°	435.2	434.8	434.6	434.1	433.2	432.3	431.4	430.5	431.4	432.3	433.2
150°	449.7	449.3	449.1	448.8	448.2	447.6	447.0	446.4	447.0	447.6	448.2
152.5°	464.0	463.5	463.2	462.9	462.3	461.7	461.1	460.5	461.1	461.7	462.3
155°	476.4	476.1	475.9	475.7	475.4	475.1	474.8	474.5	474.8	475.1	475.4
157.5°	488.0	487.8	487.7	487.6	487.4	487.2	487.0	486.8	487.0	487.2	487.4
160°	498.8	498.7	498.6	498.5	498.3	498.1	497.9	497.7	497.9	498.1	498.3
162.5°	507.8	507.7	507.7	507.7	507.7	507.7	507.7	507.7	507.7	507.7	507.7
165°	515.9	515.9	515.9	515.9	516.0	516.1	516.2	516.3	516.2	516.1	516.0
167.5°	522.7	522.7	522.7	522.8	523.1	523.4	523.7	524.0	523.7	523.4	523.1
170°	528.4	528.5	528.6	528.7	529.0	529.3	529.6	529.9	529.6	529.3	529.0
172.5°	532.5	532.6	532.7	532.8	533.1	533.4	533.7	534.0	533.7	533.4	533.1
175°	535.5	535.7	535.8	536.0	536.3	536.6	536.9	537.2	536.9	536.6	536.3
177.5°	537.4	537.6	537.7	537.8	538.1	538.4	538.7	539.0	538.7	538.4	538.1
180°	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1

TEST NUMBER: P1029361

CATALOG NUMBER: S122DIW-B290D435UB2750-4F0-XX-W2A-A1_2700K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2
2.5°	564.0	566.2	565.8	561.4	556.6	552.7	545.2	546.1	543.4	543.9	546.5
5°	550.0	550.0	548.3	542.1	534.2	529.9	521.5	519.3	514.1	513.6	513.2
7.5°	535.1	532.9	530.7	522.0	512.3	505.3	493.9	491.3	486.0	482.5	480.8
10°	517.6	514.5	510.1	500.1	488.2	479.5	467.6	464.1	454.0	449.7	447.0
12.5°	498.3	496.6	489.5	481.2	461.9	452.3	435.2	438.7	428.6	419.9	418.5
15°	479.0	472.5	468.5	454.9	431.7	427.3	413.7	406.7	397.5	390.5	390.5
17.5°	460.2	450.1	441.3	426.9	409.8	397.5	387.4	383.9	372.5	365.5	364.2
20°	435.2	423.8	421.6	401.0	389.2	375.6	366.0	357.2	348.9	345.8	343.6
22.5°	411.5	398.4	394.9	377.3	365.5	351.9	342.3	336.2	330.0	327.8	323.9
25°	386.1	378.2	373.0	354.1	341.0	328.3	321.7	317.3	311.6	311.2	308.5
27.5°	361.6	354.1	348.9	330.9	321.2	309.4	304.2	299.3	296.3	295.0	293.6
30°	340.5	332.2	326.1	312.9	301.1	291.4	287.1	284.0	282.2	280.1	279.6
32.5°	317.3	312.5	304.2	294.1	284.9	275.7	273.0	270.8	268.2	267.3	266.9
35°	297.6	291.0	285.7	274.4	270.4	262.5	259.5	257.7	254.2	253.3	252.4
37.5°	278.3	272.2	266.5	259.5	252.0	247.6	245.9	243.2	241.5	241.9	241.0
40°	259.0	254.2	249.8	242.4	238.0	235.8	232.3	229.7	228.8	229.2	228.8
42.5°	240.2	235.8	233.2	227.5	223.1	220.9	218.7	216.1	217.4	217.4	218.7
45°	223.1	219.1	217.4	213.0	210.4	206.9	204.7	204.2	206.0	205.5	205.5
47.5°	205.5	204.2	202.0	198.1	194.6	192.4	192.0	192.0	193.7	194.6	194.2
50°	192.0	189.3	186.7	183.6	181.0	180.1	178.8	179.7	181.4	181.4	182.3
52.5°	174.9	173.1	172.2	169.6	167.9	167.9	167.9	168.3	169.6	170.9	170.5
55°	160.0	158.7	157.8	156.5	154.3	154.7	154.3	155.1	156.5	157.8	158.7
57.5°	144.2	143.8	142.9	140.7	140.7	140.2	141.6	142.0	144.2	145.1	146.4
60°	130.2	128.9	128.9	127.1	127.1	127.1	128.4	129.7	131.5	131.9	132.8
62.5°	115.3	115.3	114.8	113.5	113.5	114.8	115.3	117.0	117.9	117.9	119.2
65°	101.2	100.8	100.4	100.8	101.2	101.2	102.6	103.4	104.3	104.7	105.2
67.5°	87.2	86.8	87.7	87.2	88.1	89.8	89.4	90.7	92.0	92.0	92.5
70°	74.1	74.9	74.5	75.4	74.9	75.8	77.1	77.6	77.6	78.0	79.3
72.5°	61.8	61.8	61.8	61.4	61.8	62.7	63.5	64.0	64.9	65.3	66.6
75°	50.0	50.0	49.1	50.0	50.0	50.8	51.7	51.7	51.7	52.6	53.9
77.5°	37.7	38.1	37.7	38.6	38.6	39.0	39.9	39.4	40.3	40.8	41.2
80°	27.6	27.2	27.2	27.2	27.6	27.6	28.5	28.9	28.9	30.2	29.4
82.5°	17.5	18.0	17.5	18.0	18.0	18.4	18.0	18.4	18.8	19.7	19.3
85°	10.1	9.6	9.6	10.1	9.6	9.6	10.1	9.6	10.1	9.6	10.1
87.5°	3.9	3.5	3.5	3.5	3.5	3.1	3.1	2.6	2.6	2.6	2.2
90°	5.3	5.9	7.0	9.2	11.5	13.7	15.9	15.7	15.5	15.3	15.1
92.5°	13.2	13.6	13.7	13.8	13.9	14.0	14.1	14.2	14.3	14.4	14.5
95°	27.7	28.2	28.3	28.5	28.7	28.9	29.1	29.1	29.1	29.1	29.1
97.5°	43.1	43.6	43.8	44.2	44.6	45.0	45.4	45.4	45.4	45.4	45.4
100°	60.9	61.3	61.5	61.8	62.1	62.4	62.7	62.7	62.7	62.7	62.7
102.5°	79.2	79.5	79.7	80.1	80.5	80.9	81.3	81.4	81.5	81.6	81.7
105°	98.8	99.0	99.1	99.3	99.5	99.7	99.9	100.1	100.3	100.5	100.7
107.5°	120.1	120.3	120.3	120.3	120.3	120.3	120.3	120.4	120.5	120.6	120.7
110°	140.9	141.2	141.2	141.2	141.2	141.2	141.2	141.2	141.2	141.2	141.2

TEST NUMBER: P1029361

CATALOG NUMBER: S122DIW-B290D435UB2750-4F0-XX-W2A-A1_2700K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	162.7	163.0	163.0	162.9	162.8	162.7	162.6	162.3	162.0	161.7	161.4
115°	184.1	184.4	184.3	184.1	183.9	183.7	183.5	183.4	183.3	183.2	183.1
117.5°	206.2	206.6	206.3	205.8	205.3	204.8	204.3	204.0	203.7	203.4	203.1
120°	227.6	228.0	227.6	226.8	225.9	225.1	224.3	224.3	224.3	224.3	224.3
122.5°	247.9	248.4	248.1	247.6	247.1	246.6	246.1	245.8	245.5	245.2	244.9
125°	267.9	268.4	268.2	267.9	267.6	267.3	267.0	266.7	266.4	266.1	265.8
127.5°	288.7	289.3	289.1	288.7	288.2	287.8	287.4	287.0	286.6	286.2	285.8
130°	308.1	308.8	308.7	308.5	308.3	308.1	307.9	307.7	307.5	307.3	307.1
132.5°	327.8	328.3	328.4	328.5	328.6	328.7	328.8	328.3	327.8	327.3	326.8
135°	346.3	346.9	347.0	347.2	347.4	347.6	347.8	347.7	347.6	347.5	347.4
137.5°	365.5	366.0	366.1	366.3	366.5	366.7	366.9	366.8	366.7	366.6	366.5
140°	383.2	383.7	384.0	384.5	385.0	385.5	386.0	386.0	386.0	386.0	386.0
142.5°	401.4	401.9	402.0	402.3	402.6	402.9	403.2	403.3	403.4	403.5	403.6
145°	417.9	418.2	418.5	419.1	419.8	420.4	421.0	421.1	421.2	421.3	421.4
147.5°	434.1	434.6	434.8	435.2	435.6	436.0	436.4	436.6	436.8	437.0	437.2
150°	448.8	449.1	449.3	449.7	450.1	450.5	450.9	451.2	451.5	451.8	452.1
152.5°	462.9	463.2	463.5	464.0	464.5	465.0	465.5	465.9	466.3	466.7	467.1
155°	475.7	475.9	476.1	476.4	476.7	477.0	477.3	477.8	478.3	478.8	479.3
157.5°	487.6	487.7	487.8	488.0	488.2	488.4	488.6	489.3	490.0	490.7	491.4
160°	498.5	498.6	498.7	498.8	498.9	499.0	499.1	499.7	500.3	500.9	501.5
162.5°	507.7	507.7	507.7	507.8	507.9	508.0	508.1	508.8	509.5	510.2	510.9
165°	515.9	515.9	515.9	515.9	515.9	515.9	515.9	516.6	517.3	518.0	518.7
167.5°	522.8	522.7	522.7	522.7	522.7	522.7	522.7	523.4	524.1	524.8	525.5
170°	528.7	528.6	528.5	528.4	528.3	528.2	528.1	528.8	529.5	530.2	530.9
172.5°	532.8	532.7	532.6	532.5	532.4	532.3	532.2	532.9	533.6	534.3	535.0
175°	536.0	535.8	535.7	535.5	535.3	535.1	534.9	535.6	536.3	537.0	537.7
177.5°	537.8	537.7	537.6	537.4	537.2	537.0	536.8	537.4	538.0	538.6	539.2
180°	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1

TEST NUMBER: P1029361

CATALOG NUMBER: S122DIW-B290D435UB2750-4F0-XX-W2A-A1_2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2
2.5°	543.4	544.8	541.7	540.8	541.7	538.6	539.5	540.4	540.4	541.7	542.6
5°	511.9	510.1	507.1	506.2	505.3	506.6	505.8	507.1	507.5	510.6	511.0
7.5°	480.8	478.1	475.5	472.9	472.0	469.8	472.0	472.0	475.1	474.2	476.4
10°	444.0	443.5	440.0	438.7	437.0	433.4	438.3	437.0	439.1	443.1	444.0
12.5°	416.8	412.0	414.2	408.0	410.2	406.7	407.1	407.1	410.7	411.1	410.2
15°	390.9	387.0	381.3	378.7	377.3	375.6	381.3	381.7	379.1	385.2	383.0
17.5°	364.6	364.6	359.4	358.1	354.6	356.3	355.4	355.9	355.0	359.4	361.6
20°	341.8	339.7	337.9	338.3	334.0	333.1	332.2	333.1	336.2	339.2	340.1
22.5°	323.4	322.1	317.7	318.6	315.1	316.4	315.6	317.7	318.2	318.2	321.2
25°	305.9	304.2	304.6	302.8	301.5	301.5	300.2	301.5	303.3	304.2	304.6
27.5°	292.8	291.4	289.3	287.9	288.8	286.6	288.4	289.7	289.7	288.8	289.7
30°	277.0	277.9	277.9	273.5	275.2	274.4	275.7	276.5	276.5	277.0	276.1
32.5°	266.5	263.8	263.4	263.0	263.0	261.2	261.2	262.5	263.0	263.4	264.7
35°	252.4	252.4	250.2	251.6	249.8	250.2	249.8	250.2	251.1	249.8	251.1
37.5°	239.7	240.2	239.3	240.2	240.6	239.7	238.9	240.6	239.7	239.7	238.9
40°	228.8	228.3	228.8	228.8	228.8	229.2	228.3	228.3	228.3	227.5	226.6
42.5°	219.6	216.9	217.8	218.3	216.9	216.9	217.4	216.9	218.3	215.6	215.6
45°	206.4	205.5	206.0	206.0	206.9	205.5	206.4	206.9	205.5	205.1	204.2
47.5°	194.6	195.5	194.6	195.5	195.5	196.3	194.6	195.0	195.5	193.7	192.4
50°	182.8	182.8	184.1	183.6	184.1	183.2	183.2	182.8	183.2	182.3	181.0
52.5°	171.8	170.5	172.7	172.2	171.8	171.4	170.9	171.4	170.5	169.6	169.6
55°	158.2	158.2	159.5	160.0	160.0	159.1	158.2	158.7	158.2	157.8	157.3
57.5°	147.3	145.5	146.4	146.8	146.8	145.5	146.4	145.5	145.5	145.9	144.6
60°	133.2	133.2	132.4	133.7	133.7	132.8	132.8	133.2	132.4	131.9	131.5
62.5°	118.3	118.8	120.1	120.5	121.0	120.1	119.2	119.6	119.6	118.3	118.8
65°	105.6	106.5	108.3	107.8	106.9	107.4	106.5	106.9	105.6	106.1	104.7
67.5°	93.4	92.9	93.4	93.4	94.2	93.8	92.9	92.9	92.5	93.8	92.5
70°	80.2	80.2	80.2	80.2	80.6	81.1	80.2	79.3	79.8	78.9	78.4
72.5°	66.6	67.1	66.6	67.5	66.2	67.1	67.1	66.6	66.2	66.2	66.2
75°	53.9	54.8	53.5	53.9	53.5	54.3	53.9	53.9	53.0	52.6	53.0
77.5°	41.2	41.6	40.8	41.2	40.8	41.2	41.2	40.8	40.8	40.8	40.8
80°	29.4	29.8	29.4	28.9	28.5	29.4	28.5	28.9	29.4	28.9	29.8
82.5°	18.8	18.8	18.4	18.8	18.0	18.0	18.4	18.4	18.0	18.8	18.0
85°	9.2	9.2	10.1	9.2	8.8	8.8	8.8	9.2	8.8	9.6	9.2
87.5°	2.2	1.8	2.2	2.2	1.8	1.8	2.2	1.8	2.2	2.6	1.8
90°	15.0	15.0	15.1	15.2	15.3	15.4	15.3	15.2	15.1	15.0	15.0
92.5°	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
95°	29.1	29.0	28.8	28.6	28.4	28.2	28.4	28.6	28.8	29.0	29.1
97.5°	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4
100°	62.7	62.6	62.5	62.4	62.3	62.2	62.3	62.4	62.5	62.6	62.7
102.5°	81.7	81.7	81.6	81.5	81.4	81.3	81.4	81.5	81.6	81.7	81.7
105°	100.8	100.8	100.8	100.8	100.8	100.8	100.8	100.8	100.8	100.8	100.8
107.5°	120.8	120.5	120.0	119.5	119.0	118.5	119.0	119.5	120.0	120.5	120.8
110°	141.2	141.1	140.8	140.5	140.2	139.9	140.2	140.5	140.8	141.1	141.2

TEST NUMBER: P1029361

CATALOG NUMBER: S122DIW-B290D435UB2750-4F0-XX-W2A-A1_2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	161.2	161.1	160.9	160.7	160.5	160.3	160.5	160.7	160.9	161.1	161.2
115°	183.0	182.8	182.5	182.2	181.9	181.6	181.9	182.2	182.5	182.8	183.0
117.5°	203.0	202.8	202.5	202.2	201.9	201.6	201.9	202.2	202.5	202.8	203.0
120°	224.3	224.2	223.9	223.6	223.3	223.0	223.3	223.6	223.9	224.2	224.3
122.5°	244.8	244.7	244.5	244.3	244.1	243.9	244.1	244.3	244.5	244.7	244.8
125°	265.7	265.6	265.5	265.4	265.3	265.2	265.3	265.4	265.5	265.6	265.7
127.5°	285.6	285.5	285.2	284.9	284.6	284.3	284.6	284.9	285.2	285.5	285.6
130°	307.0	306.8	306.4	306.0	305.6	305.2	305.6	306.0	306.4	306.8	307.0
132.5°	326.5	326.3	326.0	325.7	325.4	325.1	325.4	325.7	326.0	326.3	326.5
135°	347.4	347.2	346.9	346.6	346.3	346.0	346.3	346.6	346.9	347.2	347.4
137.5°	366.5	366.3	365.9	365.4	365.0	364.6	365.0	365.4	365.9	366.3	366.5
140°	386.0	385.8	385.4	385.0	384.6	384.2	384.6	385.0	385.4	385.8	386.0
142.5°	403.7	403.5	403.1	402.7	402.3	401.9	402.3	402.7	403.1	403.5	403.7
145°	421.4	421.2	420.8	420.4	420.0	419.6	420.0	420.4	420.8	421.2	421.4
147.5°	437.3	437.1	436.7	436.3	435.9	435.5	435.9	436.3	436.7	437.1	437.3
150°	452.3	452.1	451.8	451.5	451.2	450.9	451.2	451.5	451.8	452.1	452.3
152.5°	467.3	467.1	466.7	466.3	465.9	465.5	465.9	466.3	466.7	467.1	467.3
155°	479.5	479.4	479.1	478.8	478.5	478.2	478.5	478.8	479.1	479.4	479.5
157.5°	491.8	491.5	491.0	490.5	490.0	489.5	490.0	490.5	491.0	491.5	491.8
160°	501.8	501.6	501.2	500.8	500.4	500.0	500.4	500.8	501.2	501.6	501.8
162.5°	511.3	511.1	510.6	510.1	509.6	509.1	509.6	510.1	510.6	511.1	511.3
165°	519.0	518.8	518.3	517.8	517.3	516.8	517.3	517.8	518.3	518.8	519.0
167.5°	525.9	525.6	525.1	524.6	524.1	523.6	524.1	524.6	525.1	525.6	525.9
170°	531.3	531.0	530.4	529.8	529.2	528.6	529.2	529.8	530.4	531.0	531.3
172.5°	535.4	535.1	534.5	533.9	533.3	532.7	533.3	533.9	534.5	535.1	535.4
175°	538.1	537.8	537.2	536.6	536.0	535.4	536.0	536.6	537.2	537.8	538.1
177.5°	539.5	539.2	538.6	538.0	537.4	536.8	537.4	538.0	538.6	539.2	539.5
180°	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1

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CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2
2.5°	541.3	544.8	543.4	538.6	544.3	544.3	548.3	548.3	553.1	554.8	557.5
5°	510.6	513.2	515.4	513.2	517.2	523.3	526.8	529.9	536.4	539.1	543.0
7.5°	477.7	482.5	484.7	484.7	491.3	498.3	505.3	509.7	518.9	522.4	526.4
10°	445.7	451.4	455.8	455.4	466.3	470.7	479.5	489.5	498.7	504.0	509.7
12.5°	412.0	415.0	421.2	429.9	432.6	440.5	450.5	463.2	479.9	484.7	493.0
15°	383.9	392.2	397.1	401.0	407.1	414.6	425.6	437.8	454.5	465.0	473.8
17.5°	360.3	371.2	374.3	373.4	381.3	392.7	405.4	414.6	429.5	442.2	450.5
20°	341.0	345.4	350.6	352.8	358.9	371.2	383.5	394.0	406.3	416.4	426.0
22.5°	321.7	325.2	329.6	333.5	338.3	345.4	357.2	370.3	382.2	391.8	402.8
25°	305.9	308.1	312.0	315.1	320.4	325.2	333.5	348.0	362.0	367.7	377.3
27.5°	290.6	292.3	295.0	298.5	301.1	305.9	313.4	325.2	339.7	345.4	358.5
30°	277.0	278.3	280.9	282.7	284.0	289.7	295.4	304.6	315.6	323.4	333.1
32.5°	264.3	265.6	268.2	268.7	270.4	273.5	278.7	287.1	296.7	303.3	311.6
35°	250.2	251.1	253.8	254.6	255.9	258.6	262.5	268.7	277.4	282.2	289.7
37.5°	239.3	238.9	240.6	241.9	243.7	245.0	246.3	252.4	259.0	263.4	269.1
40°	227.5	226.6	227.0	228.8	229.7	231.4	231.4	237.5	241.9	245.4	249.8
42.5°	215.6	215.2	214.3	215.2	216.1	216.5	216.9	221.3	225.7	228.8	233.6
45°	203.8	203.4	202.5	202.9	202.9	203.8	205.1	206.9	209.9	212.6	215.2
47.5°	192.8	192.0	190.6	190.2	191.1	191.1	191.1	192.8	195.9	196.8	199.4
50°	181.4	180.1	178.4	177.5	177.5	177.1	177.9	178.4	181.0	181.9	184.1
52.5°	169.2	168.3	166.5	164.8	165.2	164.3	164.8	165.2	166.1	167.4	168.7
55°	156.9	155.1	153.8	153.4	152.1	152.1	150.8	152.5	152.1	152.5	154.3
57.5°	145.1	143.3	141.1	140.2	138.9	138.5	137.6	137.2	137.6	138.9	140.2
60°	131.0	130.2	128.9	127.5	126.7	125.3	124.5	124.5	124.0	124.0	124.5
62.5°	117.5	117.0	115.3	114.8	113.9	113.1	111.8	110.9	110.9	111.8	112.2
65°	104.3	103.9	102.6	102.1	99.9	99.0	98.6	98.2	97.3	97.3	97.3
67.5°	92.0	90.7	90.7	88.5	86.8	85.9	85.0	84.6	84.6	84.6	85.0
70°	78.4	78.4	77.1	75.8	74.1	74.5	73.2	71.9	71.9	71.0	71.4
72.5°	65.3	64.9	63.5	63.1	61.8	60.5	59.6	60.5	59.2	58.7	59.2
75°	52.6	52.2	51.3	50.4	50.8	49.5	48.2	47.8	47.8	46.9	46.9
77.5°	40.3	41.2	39.4	39.0	38.1	37.3	36.8	36.4	36.4	36.4	37.3
80°	28.0	28.5	28.5	27.6	28.0	26.7	26.7	26.7	25.4	25.9	26.3
82.5°	18.0	18.0	17.5	18.0	17.5	17.5	17.1	17.1	16.7	16.7	17.1
85°	10.1	9.6	9.2	10.1	9.6	9.6	9.2	9.2	9.2	9.2	9.2
87.5°	2.2	2.6	2.6	2.6	2.6	3.1	3.1	3.1	3.5	3.5	3.5
90°	15.1	15.3	15.5	15.7	15.9	13.7	11.5	9.2	7.0	5.9	5.3
92.5°	14.5	14.4	14.3	14.2	14.1	14.0	13.9	13.8	13.7	13.6	13.2
95°	29.1	29.1	29.1	29.1	29.1	28.9	28.7	28.5	28.3	28.2	27.7
97.5°	45.4	45.4	45.4	45.4	45.4	45.0	44.6	44.2	43.8	43.6	43.1
100°	62.7	62.7	62.7	62.7	62.7	62.4	62.1	61.8	61.5	61.3	60.9
102.5°	81.7	81.6	81.5	81.4	81.3	80.9	80.5	80.1	79.7	79.5	79.2
105°	100.7	100.5	100.3	100.1	99.9	99.7	99.5	99.3	99.1	99.0	98.8
107.5°	120.7	120.6	120.5	120.4	120.3	120.3	120.3	120.3	120.3	120.3	120.1
110°	141.2	141.2	141.2	141.2	141.2	141.2	141.2	141.2	141.2	141.2	140.9

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CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	161.4	161.7	162.0	162.3	162.6	162.7	162.8	162.9	163.0	163.0	162.7
115°	183.1	183.2	183.3	183.4	183.5	183.7	183.9	184.1	184.3	184.4	184.1
117.5°	203.1	203.4	203.7	204.0	204.3	204.8	205.3	205.8	206.3	206.6	206.2
120°	224.3	224.3	224.3	224.3	224.3	225.1	225.9	226.8	227.6	228.0	227.6
122.5°	244.9	245.2	245.5	245.8	246.1	246.6	247.1	247.6	248.1	248.4	247.9
125°	265.8	266.1	266.4	266.7	267.0	267.3	267.6	267.9	268.2	268.4	267.9
127.5°	285.8	286.2	286.6	287.0	287.4	287.8	288.2	288.7	289.1	289.3	288.7
130°	307.1	307.3	307.5	307.7	307.9	308.1	308.3	308.5	308.7	308.8	308.1
132.5°	326.8	327.3	327.8	328.3	328.8	328.7	328.6	328.5	328.4	328.3	327.8
135°	347.4	347.5	347.6	347.7	347.8	347.6	347.4	347.2	347.0	346.9	346.3
137.5°	366.5	366.6	366.7	366.8	366.9	366.7	366.5	366.3	366.1	366.0	365.5
140°	386.0	386.0	386.0	386.0	386.0	385.5	385.0	384.5	384.0	383.7	383.2
142.5°	403.6	403.5	403.4	403.3	403.2	402.9	402.6	402.3	402.0	401.9	401.4
145°	421.4	421.3	421.2	421.1	421.0	420.4	419.8	419.1	418.5	418.2	417.9
147.5°	437.2	437.0	436.8	436.6	436.4	436.0	435.6	435.2	434.8	434.6	434.1
150°	452.1	451.8	451.5	451.2	450.9	450.5	450.1	449.7	449.3	449.1	448.8
152.5°	467.1	466.7	466.3	465.9	465.5	465.0	464.5	464.0	463.5	463.2	462.9
155°	479.3	478.8	478.3	477.8	477.3	477.0	476.7	476.4	476.1	475.9	475.7
157.5°	491.4	490.7	490.0	489.3	488.6	488.4	488.2	488.0	487.8	487.7	487.6
160°	501.5	500.9	500.3	499.7	499.1	499.0	498.9	498.8	498.7	498.6	498.5
162.5°	510.9	510.2	509.5	508.8	508.1	508.0	507.9	507.8	507.7	507.7	507.7
165°	518.7	518.0	517.3	516.6	515.9	515.9	515.9	515.9	515.9	515.9	515.9
167.5°	525.5	524.8	524.1	523.4	522.7	522.7	522.7	522.7	522.7	522.7	522.8
170°	530.9	530.2	529.5	528.8	528.1	528.2	528.3	528.4	528.5	528.6	528.7
172.5°	535.0	534.3	533.6	532.9	532.2	532.3	532.4	532.5	532.6	532.7	532.8
175°	537.7	537.0	536.3	535.6	534.9	535.1	535.3	535.5	535.7	535.8	536.0
177.5°	539.2	538.6	538.0	537.4	536.8	537.0	537.2	537.4	537.6	537.7	537.8
180°	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1	538.1

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CATALOG NUMBER: S122DIW-B290D435UB2750-4F0-XX-W2A-A1_2700K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	570.2	570.2	570.2	570.2
2.5°	559.7	559.7	566.2	573.3
5°	547.4	550.5	561.0	570.6
7.5°	535.6	540.8	554.0	566.2
10°	521.1	528.1	544.3	558.8
12.5°	507.1	513.6	532.5	548.7
15°	487.4	495.7	515.8	536.0
17.5°	467.6	476.0	500.5	524.2
20°	444.4	455.4	483.0	514.5
22.5°	422.9	436.5	467.2	492.6
25°	399.3	420.3	448.8	481.7
27.5°	378.2	399.3	428.2	461.5
30°	354.6	376.0	405.8	436.5
32.5°	331.8	351.5	380.4	418.1
35°	308.1	326.9	355.0	393.1
37.5°	286.6	305.0	335.7	370.8
40°	265.6	284.9	311.2	346.2
42.5°	245.9	263.0	286.6	321.7
45°	227.9	240.2	262.1	295.0
47.5°	209.1	220.0	240.2	273.0
50°	191.5	200.7	218.3	248.9
52.5°	174.4	182.3	198.5	223.1
55°	159.1	166.5	178.4	202.5
57.5°	143.3	149.0	160.4	179.7
60°	128.0	133.2	142.4	158.2
62.5°	112.6	117.0	125.8	138.5
65°	99.0	102.6	109.1	120.1
67.5°	85.9	88.1	93.4	102.1
70°	73.2	74.9	79.3	86.3
72.5°	59.6	61.4	66.2	71.0
75°	48.2	48.6	52.2	56.1
77.5°	37.7	37.3	39.9	43.0
80°	25.9	27.2	29.4	30.7
82.5°	17.5	18.0	18.8	19.7
85°	9.6	10.1	10.1	11.4
87.5°	3.9	4.4	4.4	4.8
90°	4.1	2.9	1.7	0.5
92.5°	12.4	11.6	10.8	10.0
95°	26.7	25.6	24.6	23.6
97.5°	42.2	41.3	40.4	39.5
100°	60.1	59.3	58.5	57.7
102.5°	78.6	77.9	77.3	76.7
105°	98.5	98.2	97.9	97.6
107.5°	119.7	119.3	118.9	118.5
110°	140.3	139.7	139.1	138.5

TEST NUMBER: P1029361

CATALOG NUMBER: S122DIW-B290D435UB2750-4F0-XX-W2A-A1_2700K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	162.1	161.5	160.9	160.3
115°	183.5	182.8	182.2	181.6
117.5°	205.4	204.6	203.8	203.0
120°	226.8	225.9	225.1	224.3
122.5°	246.9	245.9	244.9	243.9
125°	267.0	266.1	265.2	264.3
127.5°	287.6	286.5	285.4	284.3
130°	306.8	305.5	304.2	302.9
132.5°	326.8	325.8	324.8	323.8
135°	345.2	344.1	343.0	341.9
137.5°	364.6	363.7	362.8	361.9
140°	382.3	381.4	380.5	379.6
142.5°	400.5	399.6	398.7	397.8
145°	417.2	416.5	415.8	415.1
147.5°	433.2	432.3	431.4	430.5
150°	448.2	447.6	447.0	446.4
152.5°	462.3	461.7	461.1	460.5
155°	475.4	475.1	474.8	474.5
157.5°	487.4	487.2	487.0	486.8
160°	498.3	498.1	497.9	497.7
162.5°	507.7	507.7	507.7	507.7
165°	516.0	516.1	516.2	516.3
167.5°	523.1	523.4	523.7	524.0
170°	529.0	529.3	529.6	529.9
172.5°	533.1	533.4	533.7	534.0
175°	536.3	536.6	536.9	537.2
177.5°	538.1	538.4	538.7	539.0
180°	538.1	538.1	538.1	538.1

(END OF REPORT)