

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P331478-935

Luminaire Tested: **S122DIW-S290D970U935-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331478-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DIW-S290D970U935-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 970 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4016.5 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

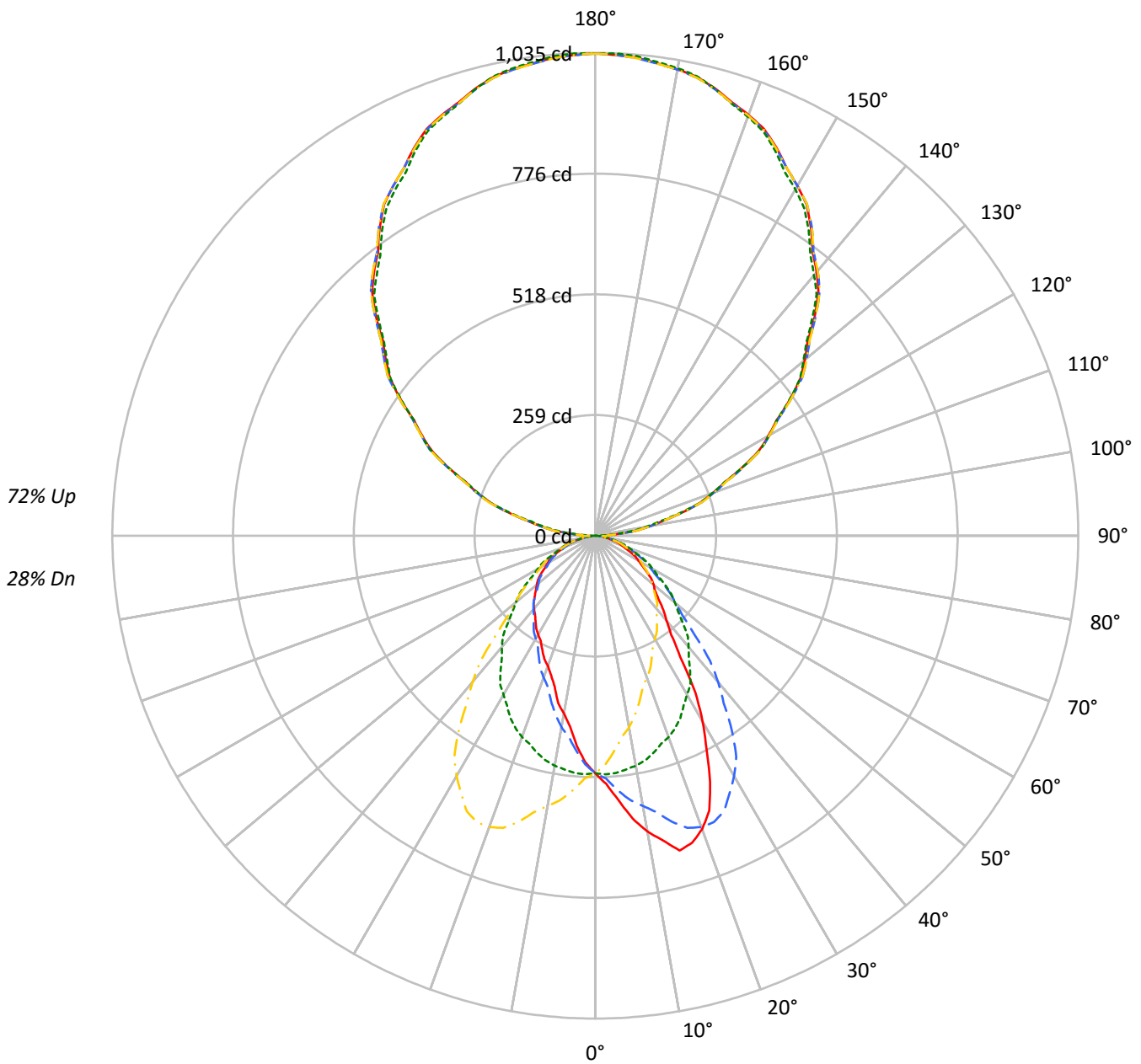
Input Watts (W): 38
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331478-935

CATALOG NUMBER: S122DIW-S290D970U935-4F0-1E-UDD-A1

Luminous Intensity Polar Plot



— 0°-180° - - - 45°-225° - - - 90°-270° - - - 135°-315°



TEST NUMBER: P331478-935

CATALOG NUMBER: S122DIW-S290D970U935-4F0-1E-UDD-A1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28				
1	93	89	85	82	83	80	77	74	63	61	59	47	45	44	32	31	31	24				
2	85	78	72	67	76	70	65	61	55	52	49	41	39	37	29	27	26	21				
3	78	69	62	56	69	62	56	51	49	45	41	37	34	32	26	24	23	18				
4	71	61	53	48	63	55	48	44	43	39	35	33	30	27	23	21	20	15				
5	65	54	47	41	58	49	42	37	39	34	31	30	26	24	21	19	17	14				
6	60	49	41	35	54	44	37	32	35	30	27	27	23	21	19	17	15	12				
7	55	44	36	31	50	40	33	28	32	27	23	24	21	19	17	15	14	11				
8	51	40	32	27	46	36	30	25	29	24	21	22	19	17	16	14	12	10				
9	48	36	29	24	43	33	27	22	26	22	19	20	17	15	15	13	11	9				
10	45	33	26	22	40	30	24	20	24	20	17	19	16	13	14	12	10	8				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8217	8217	8217	8217
5°	9211	8271	7329	8271
10°	10557	8202	6342	8202
15°	11677	8052	5605	8052
20°	11500	7892	5108	7892
25°	10368	7675	4794	7675
30°	8569	7333	4566	7333
35°	6244	6974	4401	6974
40°	4989	6551	4312	6551
45°	4359	6060	4190	6060
50°	4099	5586	4107	5586
55°	3775	5103	3997	5103
60°	3462	4592	3830	4592
65°	3156	4130	3660	4130
70°	2861	3682	3418	3682
75°	2539	3188	3026	3188
80°	2185	2631	2436	2631
85°	1964	1964	1445	1964



TEST NUMBER: P331478-935

CATALOG NUMBER: S122DIW-S290D970U935-4F0-1E-UDD-A1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.5	1.2
10°-20°	140.9	3.5
20°-30°	204.5	5.1
30°-40°	215.8	5.4
40°-50°	191.1	4.8
50°-60°	152.5	3.8
60°-70°	103.6	2.6
70°-80°	53.1	1.3
80°-90°	16.9	0.4
90°-100°	65.5	1.6
100°-110°	203.4	5.1
110°-120°	347.6	8.7
120°-130°	457.2	11.4
130°-140°	513.1	12.8
140°-150°	503.1	12.5
150°-160°	422.0	10.5
160°-170°	279.9	7.0
170°-180°	97.8	2.4
0°-30°	393.9	9.8
0°-40°	609.7	15.2
0°-60°	953.2	23.7
0°-90°	1126.9	28.1
90°-120°	616.5	15.3
90°-150°	2089.9	52.0
90°-180°	2890.0	72.0
0°-180°	4016.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	509	509	509	509	509	
5°	568	510	452	510	568	57
15°	699	482	335	482	699	193
25°	582	431	269	431	582	263
35°	317	354	223	354	317	206
45°	191	265	184	265	191	150
55°	134	181	142	181	134	120
65°	83	108	96	108	83	82
75°	41	51	48	51	41	43
85°	11	11	8	11	11	12
90°	30	1	30	1	30	13
95°	54	45	54	45	54	60
105°	194	188	194	188	194	204
115°	349	349	349	349	349	344
125°	509	508	509	508	509	454
135°	664	657	664	657	664	511
145°	806	797	806	797	806	503
155°	918	911	918	911	918	423
165°	992	992	992	992	992	280
175°	1028	1032	1028	1032	1028	98
180°	1033	1033	1033	1033	1033	



TEST NUMBER: P331478-935

CATALOG NUMBER: S122DIW-S290D970U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9
2.5°	532.4	532.5	532.9	530.4	530.0	530.0	527.9	526.0	523.7	520.8	521.2
5°	568.3	570.5	571.3	568.9	565.4	565.1	561.7	556.3	551.1	547.1	544.2
7.5°	611.3	612.2	610.3	607.2	604.6	599.9	593.7	587.6	579.1	571.4	565.6
10°	643.9	645.1	641.7	637.2	633.5	628.0	619.1	609.8	598.7	588.0	579.4
12.5°	668.6	671.5	667.2	666.7	660.3	652.7	642.0	637.4	621.7	606.7	597.4
15°	698.6	698.4	698.9	695.1	690.4	689.2	678.0	665.6	643.5	634.6	619.4
17.5°	689.9	692.9	694.3	694.2	694.1	693.4	689.7	682.0	670.9	656.6	639.0
20°	669.3	673.2	673.8	678.3	680.9	684.2	685.5	683.4	676.6	664.6	649.4
22.5°	637.4	638.5	640.3	647.3	652.8	661.2	665.5	672.8	670.1	664.3	651.5
25°	582.0	580.1	586.9	590.5	603.2	616.5	626.1	636.6	646.0	651.7	648.0
27.5°	515.7	512.7	523.0	532.4	542.6	557.1	572.0	589.6	604.2	622.7	629.0
30°	459.6	461.4	471.1	481.1	496.8	517.1	534.0	553.3	574.3	594.8	609.1
32.5°	399.2	406.0	412.2	427.5	441.3	463.9	488.6	512.8	538.9	562.2	584.4
35°	316.8	324.7	333.3	344.4	363.8	386.2	410.4	443.0	478.6	510.5	536.7
37.5°	266.7	265.4	270.4	278.4	294.1	312.3	340.0	372.2	414.1	451.6	488.6
40°	236.7	235.9	239.4	246.8	258.7	272.1	296.4	324.7	363.6	409.4	453.4
42.5°	216.0	216.5	218.4	223.7	231.9	242.8	261.0	285.1	320.7	363.9	411.1
45°	190.9	192.3	194.4	197.0	201.6	210.7	220.8	238.1	266.2	302.2	348.7
47.5°	172.8	172.9	175.0	177.3	180.0	185.1	193.5	204.2	224.1	253.4	293.4
50°	163.2	161.8	163.3	165.1	168.0	171.5	177.0	187.2	200.4	224.1	257.6
52.5°	151.2	151.3	152.7	153.3	155.9	159.5	164.5	171.5	183.6	202.1	229.5
55°	134.1	135.2	136.0	137.1	139.5	142.0	145.9	150.6	160.0	173.8	194.2
57.5°	118.1	118.5	119.2	121.5	123.0	125.3	129.0	133.3	139.4	149.6	165.0
60°	107.2	107.2	108.7	109.7	111.7	114.0	116.9	121.1	126.6	134.9	147.3
62.5°	97.2	97.0	97.6	99.3	100.7	102.9	105.8	109.3	114.5	122.0	132.1
65°	82.6	82.1	83.3	83.7	85.2	87.4	89.8	93.5	97.6	103.1	112.1
67.5°	68.4	69.0	69.6	70.3	71.1	73.4	75.0	77.6	81.1	85.7	91.7
70°	60.6	60.6	60.6	61.2	62.4	63.5	65.1	67.2	70.6	74.5	80.0
72.5°	51.8	52.5	53.1	52.8	54.2	54.9	56.8	58.0	61.2	63.7	68.5
75°	40.7	40.7	40.7	41.7	42.3	42.8	44.0	45.2	46.8	49.9	52.4
77.5°	30.4	30.3	30.5	30.7	31.3	32.0	32.4	33.4	34.9	36.3	38.5
80°	23.5	23.8	24.0	24.5	24.5	24.8	25.1	26.4	27.4	28.3	29.7
82.5°	18.2	18.3	18.3	18.3	18.5	18.8	19.3	19.7	20.1	20.8	21.9
85°	10.6	10.3	10.3	10.8	10.6	10.6	10.9	11.4	11.4	11.5	12.1
87.5°	10.0	10.0	10.1	9.9	9.8	10.0	10.1	10.0	10.2	10.5	9.8
90°	29.6	29.4	29.3	29.1	28.8	28.9	29.4	29.7	30.1	30.5	26.3
92.5°	28.2	28.2	28.2	28.2	28.1	28.1	28.0	27.9	27.8	27.7	26.7
95°	54.1	54.4	54.8	55.2	55.6	55.8	55.8	55.8	55.8	55.8	55.4
97.5°	93.7	93.7	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.1
100°	119.5	119.7	119.9	120.0	120.3	120.4	120.4	120.4	120.4	120.4	119.8
102.5°	148.8	149.0	149.1	149.4	149.6	149.6	149.4	149.3	149.1	149.0	148.2
105°	193.6	193.6	193.6	193.6	193.6	193.4	193.0	192.6	192.3	191.8	191.5
107.5°	235.8	236.7	237.5	238.5	239.4	239.7	239.6	239.4	239.3	239.1	239.1
110°	268.6	269.1	269.8	270.4	271.0	271.2	271.2	271.2	271.2	271.2	271.2



TEST NUMBER: P331478-935

CATALOG NUMBER: S122DIW-S290D970U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	300.0	300.4	300.8	301.3	301.7	302.1	302.6	303.1	303.5	304.0	304.2
115°	348.8	349.4	350.0	350.6	351.1	351.5	351.7	351.9	352.1	352.3	352.7
117.5°	395.4	396.0	396.6	397.2	397.7	398.2	398.7	399.2	399.7	400.1	401.2
120°	428.2	428.8	429.4	429.9	430.5	430.8	430.8	430.8	430.8	430.8	432.4
122.5°	460.3	460.7	461.2	461.6	462.0	462.4	462.9	463.4	463.8	464.3	465.4
125°	509.3	509.5	509.7	509.9	510.1	510.5	511.0	511.6	512.2	512.8	513.3
127.5°	554.0	554.6	555.2	555.8	556.4	557.1	557.8	558.4	559.1	559.9	560.6
130°	586.0	586.8	587.5	588.3	589.1	589.7	590.1	590.5	590.9	591.2	591.7
132.5°	616.7	617.3	617.9	618.6	619.2	619.9	620.8	621.6	622.5	623.4	623.3
135°	664.5	665.1	665.6	666.2	666.8	667.2	667.4	667.6	667.8	668.0	667.6
137.5°	707.7	708.5	709.3	710.1	710.8	711.4	711.5	711.6	711.8	712.0	711.4
140°	737.8	738.6	739.3	740.1	740.9	741.2	741.2	741.2	741.2	741.2	740.3
142.5°	765.0	765.8	766.5	767.3	768.1	768.4	768.3	768.1	767.9	767.8	767.2
145°	805.8	806.6	807.4	808.1	808.9	809.2	809.0	808.8	808.6	808.4	807.3
147.5°	842.2	843.0	843.7	844.5	845.2	845.3	844.9	844.5	844.0	843.6	842.8
150°	866.0	866.5	867.1	867.7	868.3	868.3	867.7	867.1	866.5	866.0	865.2
152.5°	888.3	889.0	889.8	890.5	891.2	891.2	890.5	889.8	889.0	888.3	887.3
155°	918.3	918.9	919.5	920.1	920.6	920.4	919.5	918.5	917.5	916.5	915.9
157.5°	944.1	945.0	946.0	946.9	947.8	947.6	946.3	945.0	943.7	942.4	942.0
160°	960.2	961.0	961.7	962.5	963.3	963.0	961.9	960.7	959.6	958.4	958.2
162.5°	974.1	975.0	975.9	976.9	977.8	977.7	976.3	975.0	973.7	972.3	972.2
165°	992.4	993.4	994.4	995.3	996.3	996.1	994.7	993.4	992.0	990.7	990.7
167.5°	1007.5	1008.4	1009.4	1010.5	1011.4	1011.2	1010.0	1008.6	1007.2	1005.8	1005.9
170°	1015.1	1016.2	1017.4	1018.6	1019.8	1019.7	1018.3	1016.9	1015.5	1014.3	1014.4
172.5°	1021.4	1022.5	1023.7	1024.8	1026.1	1025.9	1024.6	1023.2	1021.8	1020.5	1020.7
175°	1028.2	1029.3	1030.5	1031.7	1032.9	1032.7	1031.4	1030.0	1028.6	1027.3	1027.7
177.5°	1031.3	1032.3	1033.2	1034.1	1035.0	1035.0	1034.1	1033.2	1032.3	1031.3	1031.7
180°	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4



TEST NUMBER: P331478-935

CATALOG NUMBER: S122DIW-S290D970U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9
2.5°	522.2	521.0	520.2	517.4	514.9	512.4	511.6	511.9	508.4	505.1	503.8
5°	542.6	538.6	534.9	529.7	523.4	516.5	513.1	510.3	503.4	496.0	491.7
7.5°	560.8	555.2	548.0	538.1	529.0	518.2	511.3	505.3	495.3	484.8	478.4
10°	571.9	564.3	555.1	542.9	531.8	518.7	509.5	500.3	488.6	476.0	468.2
12.5°	581.4	571.2	562.1	546.6	533.4	516.9	506.1	493.1	480.8	465.9	458.2
15°	604.2	585.2	568.0	550.4	534.2	511.3	499.1	481.7	465.5	447.1	438.3
17.5°	621.7	600.4	573.3	551.0	532.0	506.6	488.9	468.0	448.8	427.8	415.9
20°	631.7	607.3	578.2	551.6	528.9	499.9	480.5	459.3	436.8	413.1	400.2
22.5°	637.7	612.0	583.2	549.2	522.6	494.5	470.1	446.7	424.0	398.4	384.9
25°	639.6	616.1	585.6	547.3	514.8	482.9	453.6	430.8	403.3	379.4	359.7
27.5°	630.3	613.5	584.1	543.5	505.8	468.5	435.8	410.1	381.0	355.1	335.2
30°	618.8	609.1	580.5	539.8	498.5	458.5	422.5	393.3	364.4	338.2	317.8
32.5°	601.2	599.1	573.9	534.5	490.9	445.8	408.5	379.1	347.0	321.2	301.9
35°	566.5	575.8	560.0	522.6	476.5	427.7	387.4	353.8	320.6	295.9	277.8
37.5°	519.9	543.2	539.1	505.2	456.9	408.1	363.6	328.5	296.8	271.9	254.1
40°	487.8	517.5	521.9	491.9	443.2	393.0	345.8	310.8	279.9	257.2	239.2
42.5°	453.4	488.1	499.9	476.0	428.2	376.9	329.8	293.6	262.9	240.9	225.0
45°	395.7	441.6	463.0	449.3	403.1	350.7	302.2	265.4	237.6	216.9	204.6
47.5°	341.7	391.9	420.6	415.8	375.2	323.3	275.3	240.0	213.0	196.5	185.5
50°	303.6	355.2	389.8	391.4	355.2	303.8	255.6	222.4	197.5	182.1	173.1
52.5°	270.4	319.7	357.4	365.8	332.8	283.4	238.0	204.8	183.0	168.8	160.7
55°	227.0	268.7	310.6	325.9	299.5	252.5	210.4	181.3	160.7	151.0	144.0
57.5°	188.8	223.5	262.2	279.1	262.8	222.6	183.1	157.8	141.2	132.6	127.2
60°	168.6	196.0	230.4	250.6	236.4	200.7	166.3	142.2	128.5	120.9	115.8
62.5°	149.8	174.1	203.2	221.6	214.0	180.2	149.4	128.1	116.3	109.2	105.5
65°	123.6	142.8	165.3	182.3	177.2	151.6	126.3	108.1	98.8	93.1	90.1
67.5°	101.8	115.6	131.2	146.1	142.1	123.9	103.7	89.5	82.5	77.6	75.8
70°	88.0	98.6	112.4	124.4	121.1	106.2	90.1	78.0	72.0	67.8	66.1
72.5°	74.9	83.5	94.2	103.9	101.7	89.3	75.9	66.8	62.1	58.3	56.9
75°	56.6	63.2	69.7	76.1	75.5	66.0	58.1	51.1	47.4	44.4	43.8
77.5°	41.8	45.5	49.9	53.6	52.6	47.1	41.0	36.9	34.3	32.3	31.9
80°	31.9	34.0	37.2	39.9	38.6	36.2	31.3	28.3	26.4	24.5	23.7
82.5°	23.2	25.2	27.1	28.7	27.6	25.4	22.4	20.4	19.2	17.9	17.6
85°	12.1	13.3	14.1	14.5	14.1	12.7	11.4	10.6	9.6	9.0	8.8
87.5°	9.1	8.3	7.4	7.1	6.1	5.7	4.6	3.6	4.0	4.2	4.4
90°	22.0	17.7	13.4	10.2	7.8	5.5	3.2	0.9	3.2	5.5	7.8
92.5°	25.7	24.7	23.7	22.4	20.7	18.9	17.2	15.5	17.2	18.9	20.7
95°	55.0	54.7	54.2	53.1	51.1	49.2	47.3	45.4	47.3	49.2	51.1
97.5°	92.4	91.6	90.9	89.6	88.0	86.3	84.6	82.8	84.6	86.3	88.0
100°	119.2	118.6	118.0	116.9	115.4	113.8	112.3	110.7	112.3	113.8	115.4
102.5°	147.5	146.7	146.0	145.0	143.8	142.5	141.3	140.1	141.3	142.5	143.8
105°	191.1	190.7	190.3	189.9	189.2	188.6	188.0	187.5	188.0	188.6	189.2
107.5°	239.1	239.1	239.1	238.7	237.8	236.9	236.2	235.3	236.2	236.9	237.8
110°	271.2	271.2	271.2	270.6	269.5	268.3	267.2	266.0	267.2	268.3	269.5



TEST NUMBER: P331478-935

CATALOG NUMBER: S122DIW-S290D970U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	304.3	304.4	304.6	304.1	303.0	301.8	300.7	299.5	300.7	301.8	303.0
115°	353.1	353.4	353.9	353.4	352.3	351.1	350.0	348.8	350.0	351.1	352.3
117.5°	402.3	403.4	404.4	404.2	402.7	401.1	399.6	398.0	399.6	401.1	402.7
120°	433.9	435.5	437.0	437.0	435.5	433.9	432.4	430.8	432.4	433.9	435.5
122.5°	466.5	467.5	468.6	468.2	466.4	464.5	462.7	460.8	462.7	464.5	466.4
125°	513.9	514.5	515.1	514.5	512.8	511.0	509.3	507.6	509.3	511.0	512.8
127.5°	561.3	562.0	562.7	561.9	559.7	557.5	555.3	553.1	555.3	557.5	559.7
130°	592.0	592.5	592.8	591.8	589.3	586.7	584.2	581.7	584.2	586.7	589.3
132.5°	623.2	623.1	623.0	622.0	619.9	617.9	615.8	613.7	615.8	617.9	619.9
135°	667.2	666.8	666.4	665.2	663.1	660.9	658.8	656.7	658.8	660.9	663.1
137.5°	710.9	710.4	710.0	708.8	707.1	705.3	703.6	701.8	703.6	705.3	707.1
140°	739.3	738.4	737.4	736.0	734.3	732.5	730.8	729.0	730.8	732.5	734.3
142.5°	766.5	765.8	765.2	764.0	762.2	760.4	758.7	757.0	758.7	760.4	762.2
145°	806.1	804.9	803.7	802.5	801.2	799.8	798.4	797.0	798.4	799.8	801.2
147.5°	842.1	841.3	840.5	839.3	837.7	836.1	834.5	832.8	834.5	836.1	837.7
150°	864.4	863.7	862.9	861.9	860.7	859.5	858.4	857.2	858.4	859.5	860.7
152.5°	886.4	885.5	884.6	883.6	882.4	881.2	880.0	878.9	880.0	881.2	882.4
155°	915.4	914.8	914.2	913.6	913.1	912.5	911.9	911.3	911.9	912.5	913.1
157.5°	941.7	941.3	941.0	940.6	940.2	939.8	939.4	939.0	939.4	939.8	940.2
160°	958.0	957.9	957.6	957.3	956.9	956.6	956.1	955.8	956.1	956.6	956.9
162.5°	972.0	971.8	971.6	971.5	971.4	971.3	971.2	971.1	971.2	971.3	971.4
165°	990.7	990.7	990.7	990.8	990.9	991.2	991.4	991.5	991.4	991.2	990.9
167.5°	1005.9	1006.0	1006.0	1006.3	1006.9	1007.5	1008.1	1008.7	1008.1	1007.5	1006.9
170°	1014.6	1014.8	1015.0	1015.4	1016.0	1016.6	1017.1	1017.7	1017.1	1016.6	1016.0
172.5°	1020.9	1021.1	1021.2	1021.7	1022.3	1022.8	1023.4	1024.0	1023.4	1022.8	1022.3
175°	1028.0	1028.5	1028.8	1029.3	1029.9	1030.5	1031.0	1031.7	1031.0	1030.5	1029.9
177.5°	1031.9	1032.3	1032.5	1032.9	1033.4	1033.9	1034.3	1034.8	1034.3	1033.9	1033.4
180°	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4



TEST NUMBER: P331478-935

CATALOG NUMBER: S122DIW-S290D970U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9
2.5°	502.2	501.3	498.0	496.3	493.4	490.8	489.0	489.8	490.4	490.2	489.7
5°	487.8	484.1	478.4	473.6	470.0	463.6	460.8	459.4	458.2	456.9	455.6
7.5°	470.6	464.8	456.7	449.7	443.2	435.1	430.5	427.8	425.0	421.9	419.1
10°	458.5	450.2	441.6	431.9	424.0	416.8	410.4	406.0	402.1	398.4	395.7
12.5°	445.7	436.2	425.5	412.2	403.6	393.1	392.2	384.6	378.5	376.2	373.0
15°	425.2	411.9	398.4	382.5	375.7	366.4	360.5	354.6	349.3	345.6	344.7
17.5°	402.0	384.8	371.3	360.0	348.8	339.1	333.7	329.1	324.7	319.8	319.1
20°	384.4	369.5	354.8	344.8	333.3	323.5	316.8	312.2	308.4	305.5	303.0
22.5°	367.6	351.3	337.9	327.0	315.6	307.7	302.5	297.9	294.8	291.6	289.2
25°	340.7	328.0	313.3	301.0	291.6	286.5	282.2	278.4	276.4	274.2	271.5
27.5°	317.2	303.1	289.4	279.8	271.6	267.1	264.0	261.3	259.5	258.2	256.7
30°	300.7	286.4	275.6	266.2	259.3	254.9	252.9	251.3	249.2	248.4	247.6
32.5°	284.6	271.8	262.6	254.4	248.0	245.0	243.2	241.8	240.1	239.4	237.7
35°	262.1	251.3	242.4	237.8	232.6	230.0	228.7	226.7	225.2	224.4	224.1
37.5°	240.8	231.5	225.6	219.8	217.6	216.0	214.1	212.8	212.3	212.2	212.0
40°	227.0	219.5	214.1	209.5	208.5	206.1	204.6	203.5	203.5	203.6	203.5
42.5°	214.6	207.7	203.0	199.0	197.9	196.5	194.8	194.8	195.1	195.8	195.1
45°	195.6	190.7	187.4	185.5	183.3	181.9	181.7	182.3	182.4	182.7	183.3
47.5°	178.1	174.9	171.9	169.7	168.8	168.6	168.3	169.4	170.3	170.7	171.5
50°	167.8	164.1	161.5	160.1	159.4	159.0	159.4	160.6	161.4	162.3	162.9
52.5°	156.3	153.6	151.9	150.8	150.5	150.8	150.8	152.1	153.3	153.8	154.0
55°	140.3	138.3	137.9	136.1	136.9	136.7	137.7	138.4	139.7	140.9	141.0
57.5°	124.2	122.7	121.7	121.8	122.1	123.0	123.7	125.1	126.3	127.6	127.7
60°	113.7	112.9	112.3	112.3	112.6	113.8	114.8	116.1	116.9	117.8	118.3
62.5°	103.9	103.1	102.5	102.9	103.9	104.6	105.7	106.5	107.3	108.1	108.3
65°	88.6	88.3	88.8	89.2	89.4	90.3	91.7	92.3	93.1	93.5	94.9
67.5°	74.5	74.6	74.5	75.0	76.2	76.4	77.7	79.0	79.2	80.0	80.8
70°	64.9	65.3	65.7	66.1	67.1	67.5	68.4	69.1	69.8	70.4	71.0
72.5°	56.1	56.2	56.7	56.6	57.4	58.2	59.1	59.7	60.4	61.2	61.7
75°	43.2	43.2	43.7	43.8	44.8	45.8	45.5	46.0	46.8	47.5	48.0
77.5°	31.6	31.2	31.6	31.8	32.1	32.9	33.1	33.6	34.5	34.3	34.7
80°	24.0	23.5	24.0	24.3	24.3	25.2	25.2	25.7	26.2	25.7	26.2
82.5°	17.1	16.9	17.3	17.4	17.7	17.7	18.0	18.1	18.7	18.4	18.7
85°	8.6	8.4	8.6	8.4	8.6	8.8	8.8	8.6	8.6	9.0	8.4
87.5°	4.7	5.2	5.9	6.7	7.4	8.2	7.9	7.8	7.7	7.3	7.3
90°	10.2	13.4	17.7	22.0	26.3	30.5	30.1	29.7	29.4	28.9	28.8
92.5°	22.4	23.7	24.7	25.7	26.7	27.7	27.8	27.9	28.0	28.1	28.1
95°	53.1	54.2	54.7	55.0	55.4	55.8	55.8	55.8	55.8	55.8	55.6
97.5°	89.6	90.9	91.6	92.4	93.1	93.8	93.8	93.8	93.8	93.8	93.8
100°	116.9	118.0	118.6	119.2	119.8	120.4	120.4	120.4	120.4	120.4	120.3
102.5°	145.0	146.0	146.7	147.5	148.2	149.0	149.1	149.3	149.4	149.6	149.6
105°	189.9	190.3	190.7	191.1	191.5	191.8	192.3	192.6	193.0	193.4	193.6
107.5°	238.7	239.1	239.1	239.1	239.1	239.1	239.3	239.4	239.6	239.7	239.4
110°	270.6	271.2	271.2	271.2	271.2	271.2	271.2	271.2	271.2	271.2	271.0



TEST NUMBER: P331478-935

CATALOG NUMBER: S122DIW-S290D970U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	304.1	304.6	304.4	304.3	304.2	304.0	303.5	303.1	302.6	302.1	301.7
115°	353.4	353.9	353.4	353.1	352.7	352.3	352.1	351.9	351.7	351.5	351.1
117.5°	404.2	404.4	403.4	402.3	401.2	400.1	399.7	399.2	398.7	398.2	397.7
120°	437.0	437.0	435.5	433.9	432.4	430.8	430.8	430.8	430.8	430.8	430.5
122.5°	468.2	468.6	467.5	466.5	465.4	464.3	463.8	463.4	462.9	462.4	462.0
125°	514.5	515.1	514.5	513.9	513.3	512.8	512.2	511.6	511.0	510.5	510.1
127.5°	561.9	562.7	562.0	561.3	560.6	559.9	559.1	558.4	557.8	557.1	556.4
130°	591.8	592.8	592.5	592.0	591.7	591.2	590.9	590.5	590.1	589.7	589.1
132.5°	622.0	623.0	623.1	623.2	623.3	623.4	622.5	621.6	620.8	619.9	619.2
135°	665.2	666.4	666.8	667.2	667.6	668.0	667.8	667.6	667.4	667.2	666.8
137.5°	708.8	710.0	710.4	710.9	711.4	712.0	711.8	711.6	711.5	711.4	710.8
140°	736.0	737.4	738.4	739.3	740.3	741.2	741.2	741.2	741.2	741.2	740.9
142.5°	764.0	765.2	765.8	766.5	767.2	767.8	767.9	768.1	768.3	768.4	768.1
145°	802.5	803.7	804.9	806.1	807.3	808.4	808.6	808.8	809.0	809.2	808.9
147.5°	839.3	840.5	841.3	842.1	842.8	843.6	844.0	844.5	844.9	845.3	845.2
150°	861.9	862.9	863.7	864.4	865.2	866.0	866.5	867.1	867.7	868.3	868.3
152.5°	883.6	884.6	885.5	886.4	887.3	888.3	889.0	889.8	890.5	891.2	891.2
155°	913.6	914.2	914.8	915.4	915.9	916.5	917.5	918.5	919.5	920.4	920.6
157.5°	940.6	941.0	941.3	941.7	942.0	942.4	943.7	945.0	946.3	947.6	947.8
160°	957.3	957.6	957.9	958.0	958.2	958.4	959.6	960.7	961.9	963.0	963.3
162.5°	971.5	971.6	971.8	972.0	972.2	972.3	973.7	975.0	976.3	977.7	977.8
165°	990.8	990.7	990.7	990.7	990.7	990.7	992.0	993.4	994.7	996.1	996.3
167.5°	1006.3	1006.0	1006.0	1005.9	1005.9	1005.8	1007.2	1008.6	1010.0	1011.2	1011.4
170°	1015.4	1015.0	1014.8	1014.6	1014.4	1014.3	1015.5	1016.9	1018.3	1019.7	1019.8
172.5°	1021.7	1021.2	1021.1	1020.9	1020.7	1020.5	1021.8	1023.2	1024.6	1025.9	1026.1
175°	1029.3	1028.8	1028.5	1028.0	1027.7	1027.3	1028.6	1030.0	1031.4	1032.7	1032.9
177.5°	1032.9	1032.5	1032.3	1031.9	1031.7	1031.3	1032.3	1033.2	1034.1	1035.0	1035.0
180°	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4



TEST NUMBER: P331478-935

CATALOG NUMBER: S122DIW-S290D970U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9
2.5°	488.1	487.8	487.8	486.4	487.8	487.8	488.1	489.7	490.2	490.4	489.8
5°	452.8	452.2	451.3	452.2	451.3	452.2	452.8	455.6	456.9	458.2	459.4
7.5°	417.8	415.5	415.2	412.8	415.2	415.5	417.8	419.1	421.9	425.0	427.8
10°	392.4	390.8	390.5	386.8	390.5	390.8	392.4	395.7	398.4	402.1	406.0
12.5°	373.0	369.2	370.0	367.8	370.0	369.2	373.0	373.0	376.2	378.5	384.6
15°	339.3	339.3	338.5	335.3	338.5	339.3	339.3	344.7	345.6	349.3	354.6
17.5°	315.2	314.8	313.0	313.9	313.0	314.8	315.2	319.1	319.8	324.7	329.1
20°	300.8	299.6	297.3	297.3	297.3	299.6	300.8	303.0	305.5	308.4	312.2
22.5°	287.2	287.1	284.6	285.4	284.6	287.1	287.2	289.2	291.6	294.8	297.9
25°	271.3	269.8	268.5	269.1	268.5	269.8	271.3	271.5	274.2	276.4	278.4
27.5°	256.1	255.3	255.2	253.7	255.2	255.3	256.1	256.7	258.2	259.5	261.3
30°	247.5	245.5	245.8	244.9	245.8	245.5	247.5	247.6	248.4	249.2	251.3
32.5°	237.4	236.7	236.3	235.5	236.3	236.7	237.4	237.7	239.4	240.1	241.8
35°	223.8	223.9	223.0	223.3	223.0	223.9	223.8	224.1	224.4	225.2	226.7
37.5°	211.8	212.4	212.0	212.1	212.0	212.4	211.8	212.0	212.2	212.3	212.8
40°	204.0	204.0	204.0	204.6	204.0	204.0	204.0	203.5	203.6	203.5	203.5
42.5°	196.5	196.1	195.9	195.8	195.9	196.1	196.5	195.1	195.8	195.1	194.8
45°	183.7	184.3	184.4	183.5	184.4	184.3	183.7	183.3	182.7	182.4	182.3
47.5°	172.0	172.1	172.0	172.9	172.0	172.1	172.0	171.5	170.7	170.3	169.4
50°	163.9	163.5	163.9	163.5	163.9	163.5	163.9	162.9	162.3	161.4	160.6
52.5°	155.3	155.4	155.2	155.1	155.2	155.4	155.3	154.0	153.8	153.3	152.1
55°	141.8	142.2	142.0	142.0	142.0	142.2	141.8	141.0	140.9	139.7	138.4
57.5°	127.9	128.2	128.5	127.6	128.5	128.2	127.9	127.7	127.6	126.3	125.1
60°	118.1	119.1	118.9	118.6	118.9	119.1	118.1	118.3	117.8	116.9	116.1
62.5°	109.2	109.6	109.5	109.4	109.5	109.6	109.2	108.3	108.1	107.3	106.5
65°	95.5	95.8	95.2	95.8	95.2	95.8	95.5	94.9	93.5	93.1	92.3
67.5°	80.6	80.8	81.2	81.5	81.2	80.8	80.6	80.8	80.0	79.2	79.0
70°	71.4	71.2	71.8	72.4	71.8	71.2	71.4	71.0	70.4	69.8	69.1
72.5°	61.6	62.1	61.9	62.3	61.9	62.1	61.6	61.7	61.2	60.4	59.7
75°	47.5	48.1	48.0	48.5	48.0	48.1	47.5	48.0	47.5	46.8	46.0
77.5°	34.4	34.4	34.4	34.7	34.4	34.4	34.4	34.7	34.3	34.5	33.6
80°	26.2	25.8	25.4	26.2	25.4	25.8	26.2	26.2	25.7	26.2	25.7
82.5°	18.3	18.4	18.1	18.1	18.1	18.4	18.3	18.7	18.4	18.7	18.1
85°	8.4	8.2	7.8	7.8	7.8	8.2	8.4	8.4	9.0	8.6	8.6
87.5°	7.4	7.2	7.3	7.1	7.3	7.2	7.4	7.3	7.3	7.7	7.8
90°	29.1	29.3	29.4	29.6	29.4	29.3	29.1	28.8	28.9	29.4	29.7
92.5°	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.1	28.1	28.0	27.9
95°	55.2	54.8	54.4	54.1	54.4	54.8	55.2	55.6	55.8	55.8	55.8
97.5°	93.8	93.8	93.7	93.7	93.7	93.8	93.8	93.8	93.8	93.8	93.8
100°	120.0	119.9	119.7	119.5	119.7	119.9	120.0	120.3	120.4	120.4	120.4
102.5°	149.4	149.1	149.0	148.8	149.0	149.1	149.4	149.6	149.6	149.4	149.3
105°	193.6	193.6	193.6	193.6	193.6	193.6	193.6	193.6	193.4	193.0	192.6
107.5°	238.5	237.5	236.7	235.8	236.7	237.5	238.5	239.4	239.7	239.6	239.4
110°	270.4	269.8	269.1	268.6	269.1	269.8	270.4	271.0	271.2	271.2	271.2



TEST NUMBER: P331478-935

CATALOG NUMBER: S122DIW-S290D970U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	301.3	300.8	300.4	300.0	300.4	300.8	301.3	301.7	302.1	302.6	303.1
115°	350.6	350.0	349.4	348.8	349.4	350.0	350.6	351.1	351.5	351.7	351.9
117.5°	397.2	396.6	396.0	395.4	396.0	396.6	397.2	397.7	398.2	398.7	399.2
120°	429.9	429.4	428.8	428.2	428.8	429.4	429.9	430.5	430.8	430.8	430.8
122.5°	461.6	461.2	460.7	460.3	460.7	461.2	461.6	462.0	462.4	462.9	463.4
125°	509.9	509.7	509.5	509.3	509.5	509.7	509.9	510.1	510.5	511.0	511.6
127.5°	555.8	555.2	554.6	554.0	554.6	555.2	555.8	556.4	557.1	557.8	558.4
130°	588.3	587.5	586.8	586.0	586.8	587.5	588.3	589.1	589.7	590.1	590.5
132.5°	618.6	617.9	617.3	616.7	617.3	617.9	618.6	619.2	619.9	620.8	621.6
135°	666.2	665.6	665.1	664.5	665.1	665.6	666.2	666.8	667.2	667.4	667.6
137.5°	710.1	709.3	708.5	707.7	708.5	709.3	710.1	710.8	711.4	711.5	711.6
140°	740.1	739.3	738.6	737.8	738.6	739.3	740.1	740.9	741.2	741.2	741.2
142.5°	767.3	766.5	765.8	765.0	765.8	766.5	767.3	768.1	768.4	768.3	768.1
145°	808.1	807.4	806.6	805.8	806.6	807.4	808.1	808.9	809.2	809.0	808.8
147.5°	844.5	843.7	843.0	842.2	843.0	843.7	844.5	845.2	845.3	844.9	844.5
150°	867.7	867.1	866.5	866.0	866.5	867.1	867.7	868.3	868.3	867.7	867.1
152.5°	890.5	889.8	889.0	888.3	889.0	889.8	890.5	891.2	891.2	890.5	889.8
155°	920.1	919.5	918.9	918.3	918.9	919.5	920.1	920.6	920.4	919.5	918.5
157.5°	946.9	946.0	945.0	944.1	945.0	946.0	946.9	947.8	947.6	946.3	945.0
160°	962.5	961.7	961.0	960.2	961.0	961.7	962.5	963.3	963.0	961.9	960.7
162.5°	976.9	975.9	975.0	974.1	975.0	975.9	976.9	977.8	977.7	976.3	975.0
165°	995.3	994.4	993.4	992.4	993.4	994.4	995.3	996.3	996.1	994.7	993.4
167.5°	1010.5	1009.4	1008.4	1007.5	1008.4	1009.4	1010.5	1011.4	1011.2	1010.0	1008.6
170°	1018.6	1017.4	1016.2	1015.1	1016.2	1017.4	1018.6	1019.8	1019.7	1018.3	1016.9
172.5°	1024.8	1023.7	1022.5	1021.4	1022.5	1023.7	1024.8	1026.1	1025.9	1024.6	1023.2
175°	1031.7	1030.5	1029.3	1028.2	1029.3	1030.5	1031.7	1032.9	1032.7	1031.4	1030.0
177.5°	1034.1	1033.2	1032.3	1031.3	1032.3	1033.2	1034.1	1035.0	1035.0	1034.1	1033.2
180°	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4



TEST NUMBER: P331478-935

CATALOG NUMBER: S122DIW-S290D970U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9
2.5°	489.0	490.8	493.4	496.3	498.0	501.3	502.2	503.8	505.1	508.4	511.9
5°	460.8	463.6	470.0	473.6	478.4	484.1	487.8	491.7	496.0	503.4	510.3
7.5°	430.5	435.1	443.2	449.7	456.7	464.8	470.6	478.4	484.8	495.3	505.3
10°	410.4	416.8	424.0	431.9	441.6	450.2	458.5	468.2	476.0	488.6	500.3
12.5°	392.2	393.1	403.6	412.2	425.5	436.2	445.7	458.2	465.9	480.8	493.1
15°	360.5	366.4	375.7	382.5	398.4	411.9	425.2	438.3	447.1	465.5	481.7
17.5°	333.7	339.1	348.8	360.0	371.3	384.8	402.0	415.9	427.8	448.8	468.0
20°	316.8	323.5	333.3	344.8	354.8	369.5	384.4	400.2	413.1	436.8	459.3
22.5°	302.5	307.7	315.6	327.0	337.9	351.3	367.6	384.9	398.4	424.0	446.7
25°	282.2	286.5	291.6	301.0	313.3	328.0	340.7	359.7	379.4	403.3	430.8
27.5°	264.0	267.1	271.6	279.8	289.4	303.1	317.2	335.2	355.1	381.0	410.1
30°	252.9	254.9	259.3	266.2	275.6	286.4	300.7	317.8	338.2	364.4	393.3
32.5°	243.2	245.0	248.0	254.4	262.6	271.8	284.6	301.9	321.2	347.0	379.1
35°	228.7	230.0	232.6	237.8	242.4	251.3	262.1	277.8	295.9	320.6	353.8
37.5°	214.1	216.0	217.6	219.8	225.6	231.5	240.8	254.1	271.9	296.8	328.5
40°	204.6	206.1	208.5	209.5	214.1	219.5	227.0	239.2	257.2	279.9	310.8
42.5°	194.8	196.5	197.9	199.0	203.0	207.7	214.6	225.0	240.9	262.9	293.6
45°	181.7	181.9	183.3	185.5	187.4	190.7	195.6	204.6	216.9	237.6	265.4
47.5°	168.3	168.6	168.8	169.7	171.9	174.9	178.1	185.5	196.5	213.0	240.0
50°	159.4	159.0	159.4	160.1	161.5	164.1	167.8	173.1	182.1	197.5	222.4
52.5°	150.8	150.8	150.5	150.8	151.9	153.6	156.3	160.7	168.8	183.0	204.8
55°	137.7	136.7	136.9	136.1	137.9	138.3	140.3	144.0	151.0	160.7	181.3
57.5°	123.7	123.0	122.1	121.8	121.7	122.7	124.2	127.2	132.6	141.2	157.8
60°	114.8	113.8	112.6	112.3	112.3	112.9	113.7	115.8	120.9	128.5	142.2
62.5°	105.7	104.6	103.9	102.9	102.5	103.1	103.9	105.5	109.2	116.3	128.1
65°	91.7	90.3	89.4	89.2	88.8	88.3	88.6	90.1	93.1	98.8	108.1
67.5°	77.7	76.4	76.2	75.0	74.5	74.6	74.5	75.8	77.6	82.5	89.5
70°	68.4	67.5	67.1	66.1	65.7	65.3	64.9	66.1	67.8	72.0	78.0
72.5°	59.1	58.2	57.4	56.6	56.7	56.2	56.1	56.9	58.3	62.1	66.8
75°	45.5	45.8	44.8	43.8	43.7	43.2	43.2	43.8	44.4	47.4	51.1
77.5°	33.1	32.9	32.1	31.8	31.6	31.2	31.6	31.9	32.3	34.3	36.9
80°	25.2	25.2	24.3	24.3	24.0	23.5	24.0	23.7	24.5	26.4	28.3
82.5°	18.0	17.7	17.7	17.4	17.3	16.9	17.1	17.6	17.9	19.2	20.4
85°	8.8	8.8	8.6	8.4	8.6	8.4	8.6	8.8	9.0	9.6	10.6
87.5°	7.9	8.2	7.4	6.7	5.9	5.2	4.7	4.4	4.2	4.0	3.6
90°	30.1	30.5	26.3	22.0	17.7	13.4	10.2	7.8	5.5	3.2	0.9
92.5°	27.8	27.7	26.7	25.7	24.7	23.7	22.4	20.7	18.9	17.2	15.5
95°	55.8	55.8	55.4	55.0	54.7	54.2	53.1	51.1	49.2	47.3	45.4
97.5°	93.8	93.8	93.1	92.4	91.6	90.9	89.6	88.0	86.3	84.6	82.8
100°	120.4	120.4	119.8	119.2	118.6	118.0	116.9	115.4	113.8	112.3	110.7
102.5°	149.1	149.0	148.2	147.5	146.7	146.0	145.0	143.8	142.5	141.3	140.1
105°	192.3	191.8	191.5	191.1	190.7	190.3	189.9	189.2	188.6	188.0	187.5
107.5°	239.3	239.1	239.1	239.1	239.1	239.1	238.7	237.8	236.9	236.2	235.3
110°	271.2	271.2	271.2	271.2	271.2	271.2	270.6	269.5	268.3	267.2	266.0



TEST NUMBER: P331478-935

CATALOG NUMBER: S122DIW-S290D970U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	303.5	304.0	304.2	304.3	304.4	304.6	304.1	303.0	301.8	300.7	299.5
115°	352.1	352.3	352.7	353.1	353.4	353.9	353.4	352.3	351.1	350.0	348.8
117.5°	399.7	400.1	401.2	402.3	403.4	404.4	404.2	402.7	401.1	399.6	398.0
120°	430.8	430.8	432.4	433.9	435.5	437.0	437.0	435.5	433.9	432.4	430.8
122.5°	463.8	464.3	465.4	466.5	467.5	468.6	468.2	466.4	464.5	462.7	460.8
125°	512.2	512.8	513.3	513.9	514.5	515.1	514.5	512.8	511.0	509.3	507.6
127.5°	559.1	559.9	560.6	561.3	562.0	562.7	561.9	559.7	557.5	555.3	553.1
130°	590.9	591.2	591.7	592.0	592.5	592.8	591.8	589.3	586.7	584.2	581.7
132.5°	622.5	623.4	623.3	623.2	623.1	623.0	622.0	619.9	617.9	615.8	613.7
135°	667.8	668.0	667.6	667.2	666.8	666.4	665.2	663.1	660.9	658.8	656.7
137.5°	711.8	712.0	711.4	710.9	710.4	710.0	708.8	707.1	705.3	703.6	701.8
140°	741.2	741.2	740.3	739.3	738.4	737.4	736.0	734.3	732.5	730.8	729.0
142.5°	767.9	767.8	767.2	766.5	765.8	765.2	764.0	762.2	760.4	758.7	757.0
145°	808.6	808.4	807.3	806.1	804.9	803.7	802.5	801.2	799.8	798.4	797.0
147.5°	844.0	843.6	842.8	842.1	841.3	840.5	839.3	837.7	836.1	834.5	832.8
150°	866.5	866.0	865.2	864.4	863.7	862.9	861.9	860.7	859.5	858.4	857.2
152.5°	889.0	888.3	887.3	886.4	885.5	884.6	883.6	882.4	881.2	880.0	878.9
155°	917.5	916.5	915.9	915.4	914.8	914.2	913.6	913.1	912.5	911.9	911.3
157.5°	943.7	942.4	942.0	941.7	941.3	941.0	940.6	940.2	939.8	939.4	939.0
160°	959.6	958.4	958.2	958.0	957.9	957.6	957.3	956.9	956.6	956.1	955.8
162.5°	973.7	972.3	972.2	972.0	971.8	971.6	971.5	971.4	971.3	971.2	971.1
165°	992.0	990.7	990.7	990.7	990.7	990.7	990.8	990.9	991.2	991.4	991.5
167.5°	1007.2	1005.8	1005.9	1005.9	1006.0	1006.0	1006.3	1006.9	1007.5	1008.1	1008.7
170°	1015.5	1014.3	1014.4	1014.6	1014.8	1015.0	1015.4	1016.0	1016.6	1017.1	1017.7
172.5°	1021.8	1020.5	1020.7	1020.9	1021.1	1021.2	1021.7	1022.3	1022.8	1023.4	1024.0
175°	1028.6	1027.3	1027.7	1028.0	1028.5	1028.8	1029.3	1029.9	1030.5	1031.0	1031.7
177.5°	1032.3	1031.3	1031.7	1031.9	1032.3	1032.5	1032.9	1033.4	1033.9	1034.3	1034.8
180°	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4



TEST NUMBER: P331478-935

CATALOG NUMBER: S122DIW-S290D970U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9
2.5°	511.6	512.4	514.9	517.4	520.2	521.0	522.2	521.2	520.8	523.7	526.0
5°	513.1	516.5	523.4	529.7	534.9	538.6	542.6	544.2	547.1	551.1	556.3
7.5°	511.3	518.2	529.0	538.1	548.0	555.2	560.8	565.6	571.4	579.1	587.6
10°	509.5	518.7	531.8	542.9	555.1	564.3	571.9	579.4	588.0	598.7	609.8
12.5°	506.1	516.9	533.4	546.6	562.1	571.2	581.4	597.4	606.7	621.7	637.4
15°	499.1	511.3	534.2	550.4	568.0	585.2	604.2	619.4	634.6	643.5	665.6
17.5°	488.9	506.6	532.0	551.0	573.3	600.4	621.7	639.0	656.6	670.9	682.0
20°	480.5	499.9	528.9	551.6	578.2	607.3	631.7	649.4	664.6	676.6	683.4
22.5°	470.1	494.5	522.6	549.2	583.2	612.0	637.7	651.5	664.3	670.1	672.8
25°	453.6	482.9	514.8	547.3	585.6	616.1	639.6	648.0	651.7	646.0	636.6
27.5°	435.8	468.5	505.8	543.5	584.1	613.5	630.3	629.0	622.7	604.2	589.6
30°	422.5	458.5	498.5	539.8	580.5	609.1	618.8	609.1	594.8	574.3	553.3
32.5°	408.5	445.8	490.9	534.5	573.9	599.1	601.2	584.4	562.2	538.9	512.8
35°	387.4	427.7	476.5	522.6	560.0	575.8	566.5	536.7	510.5	478.6	443.0
37.5°	363.6	408.1	456.9	505.2	539.1	543.2	519.9	488.6	451.6	414.1	372.2
40°	345.8	393.0	443.2	491.9	521.9	517.5	487.8	453.4	409.4	363.6	324.7
42.5°	329.8	376.9	428.2	476.0	499.9	488.1	453.4	411.1	363.9	320.7	285.1
45°	302.2	350.7	403.1	449.3	463.0	441.6	395.7	348.7	302.2	266.2	238.1
47.5°	275.3	323.3	375.2	415.8	420.6	391.9	341.7	293.4	253.4	224.1	204.2
50°	255.6	303.8	355.2	391.4	389.8	355.2	303.6	257.6	224.1	200.4	187.2
52.5°	238.0	283.4	332.8	365.8	357.4	319.7	270.4	229.5	202.1	183.6	171.5
55°	210.4	252.5	299.5	325.9	310.6	268.7	227.0	194.2	173.8	160.0	150.6
57.5°	183.1	222.6	262.8	279.1	262.2	223.5	188.8	165.0	149.6	139.4	133.3
60°	166.3	200.7	236.4	250.6	230.4	196.0	168.6	147.3	134.9	126.6	121.1
62.5°	149.4	180.2	214.0	221.6	203.2	174.1	149.8	132.1	122.0	114.5	109.3
65°	126.3	151.6	177.2	182.3	165.3	142.8	123.6	112.1	103.1	97.6	93.5
67.5°	103.7	123.9	142.1	146.1	131.2	115.6	101.8	91.7	85.7	81.1	77.6
70°	90.1	106.2	121.1	124.4	112.4	98.6	88.0	80.0	74.5	70.6	67.2
72.5°	75.9	89.3	101.7	103.9	94.2	83.5	74.9	68.5	63.7	61.2	58.0
75°	58.1	66.0	75.5	76.1	69.7	63.2	56.6	52.4	49.9	46.8	45.2
77.5°	41.0	47.1	52.6	53.6	49.9	45.5	41.8	38.5	36.3	34.9	33.4
80°	31.3	36.2	38.6	39.9	37.2	34.0	31.9	29.7	28.3	27.4	26.4
82.5°	22.4	25.4	27.6	28.7	27.1	25.2	23.2	21.9	20.8	20.1	19.7
85°	11.4	12.7	14.1	14.5	14.1	13.3	12.1	12.1	11.5	11.4	11.4
87.5°	4.6	5.7	6.1	7.1	7.4	8.3	9.1	9.8	10.5	10.2	10.0
90°	3.2	5.5	7.8	10.2	13.4	17.7	22.0	26.3	30.5	30.1	29.7
92.5°	17.2	18.9	20.7	22.4	23.7	24.7	25.7	26.7	27.7	27.8	27.9
95°	47.3	49.2	51.1	53.1	54.2	54.7	55.0	55.4	55.8	55.8	55.8
97.5°	84.6	86.3	88.0	89.6	90.9	91.6	92.4	93.1	93.8	93.8	93.8
100°	112.3	113.8	115.4	116.9	118.0	118.6	119.2	119.8	120.4	120.4	120.4
102.5°	141.3	142.5	143.8	145.0	146.0	146.7	147.5	148.2	149.0	149.1	149.3
105°	188.0	188.6	189.2	189.9	190.3	190.7	191.1	191.5	191.8	192.3	192.6
107.5°	236.2	236.9	237.8	238.7	239.1	239.1	239.1	239.1	239.1	239.3	239.4
110°	267.2	268.3	269.5	270.6	271.2	271.2	271.2	271.2	271.2	271.2	271.2



TEST NUMBER: P331478-935

CATALOG NUMBER: S122DIW-S290D970U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	300.7	301.8	303.0	304.1	304.6	304.4	304.3	304.2	304.0	303.5	303.1
115°	350.0	351.1	352.3	353.4	353.9	353.4	353.1	352.7	352.3	352.1	351.9
117.5°	399.6	401.1	402.7	404.2	404.4	403.4	402.3	401.2	400.1	399.7	399.2
120°	432.4	433.9	435.5	437.0	437.0	435.5	433.9	432.4	430.8	430.8	430.8
122.5°	462.7	464.5	466.4	468.2	468.6	467.5	466.5	465.4	464.3	463.8	463.4
125°	509.3	511.0	512.8	514.5	515.1	514.5	513.9	513.3	512.8	512.2	511.6
127.5°	555.3	557.5	559.7	561.9	562.7	562.0	561.3	560.6	559.9	559.1	558.4
130°	584.2	586.7	589.3	591.8	592.8	592.5	592.0	591.7	591.2	590.9	590.5
132.5°	615.8	617.9	619.9	622.0	623.0	623.1	623.2	623.3	623.4	622.5	621.6
135°	658.8	660.9	663.1	665.2	666.4	666.8	667.2	667.6	668.0	667.8	667.6
137.5°	703.6	705.3	707.1	708.8	710.0	710.4	710.9	711.4	712.0	711.8	711.6
140°	730.8	732.5	734.3	736.0	737.4	738.4	739.3	740.3	741.2	741.2	741.2
142.5°	758.7	760.4	762.2	764.0	765.2	765.8	766.5	767.2	767.8	767.9	768.1
145°	798.4	799.8	801.2	802.5	803.7	804.9	806.1	807.3	808.4	808.6	808.8
147.5°	834.5	836.1	837.7	839.3	840.5	841.3	842.1	842.8	843.6	844.0	844.5
150°	858.4	859.5	860.7	861.9	862.9	863.7	864.4	865.2	866.0	866.5	867.1
152.5°	880.0	881.2	882.4	883.6	884.6	885.5	886.4	887.3	888.3	889.0	889.8
155°	911.9	912.5	913.1	913.6	914.2	914.8	915.4	915.9	916.5	917.5	918.5
157.5°	939.4	939.8	940.2	940.6	941.0	941.3	941.7	942.0	942.4	943.7	945.0
160°	956.1	956.6	956.9	957.3	957.6	957.9	958.0	958.2	958.4	959.6	960.7
162.5°	971.2	971.3	971.4	971.5	971.6	971.8	972.0	972.2	972.3	973.7	975.0
165°	991.4	991.2	990.9	990.8	990.7	990.7	990.7	990.7	990.7	992.0	993.4
167.5°	1008.1	1007.5	1006.9	1006.3	1006.0	1006.0	1005.9	1005.9	1005.8	1007.2	1008.6
170°	1017.1	1016.6	1016.0	1015.4	1015.0	1014.8	1014.6	1014.4	1014.3	1015.5	1016.9
172.5°	1023.4	1022.8	1022.3	1021.7	1021.2	1021.1	1020.9	1020.7	1020.5	1021.8	1023.2
175°	1031.0	1030.5	1029.9	1029.3	1028.8	1028.5	1028.0	1027.7	1027.3	1028.6	1030.0
177.5°	1034.3	1033.9	1033.4	1032.9	1032.5	1032.3	1031.9	1031.7	1031.3	1032.3	1033.2
180°	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4



TEST NUMBER: P331478-935

CATALOG NUMBER: S122DIW-S290D970U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	508.9	508.9	508.9	508.9	508.9	508.9	508.9
2.5°	527.9	530.0	530.0	530.4	532.9	532.5	532.4
5°	561.7	565.1	565.4	568.9	571.3	570.5	568.3
7.5°	593.7	599.9	604.6	607.2	610.3	612.2	611.3
10°	619.1	628.0	633.5	637.2	641.7	645.1	643.9
12.5°	642.0	652.7	660.3	666.7	667.2	671.5	668.6
15°	678.0	689.2	690.4	695.1	698.9	698.4	698.6
17.5°	689.7	693.4	694.1	694.2	694.3	692.9	689.9
20°	685.5	684.2	680.9	678.3	673.8	673.2	669.3
22.5°	665.5	661.2	652.8	647.3	640.3	638.5	637.4
25°	626.1	616.5	603.2	590.5	586.9	580.1	582.0
27.5°	572.0	557.1	542.6	532.4	523.0	512.7	515.7
30°	534.0	517.1	496.8	481.1	471.1	461.4	459.6
32.5°	488.6	463.9	441.3	427.5	412.2	406.0	399.2
35°	410.4	386.2	363.8	344.4	333.3	324.7	316.8
37.5°	340.0	312.3	294.1	278.4	270.4	265.4	266.7
40°	296.4	272.1	258.7	246.8	239.4	235.9	236.7
42.5°	261.0	242.8	231.9	223.7	218.4	216.5	216.0
45°	220.8	210.7	201.6	197.0	194.4	192.3	190.9
47.5°	193.5	185.1	180.0	177.3	175.0	172.9	172.8
50°	177.0	171.5	168.0	165.1	163.3	161.8	163.2
52.5°	164.5	159.5	155.9	153.3	152.7	151.3	151.2
55°	145.9	142.0	139.5	137.1	136.0	135.2	134.1
57.5°	129.0	125.3	123.0	121.5	119.2	118.5	118.1
60°	116.9	114.0	111.7	109.7	108.7	107.2	107.2
62.5°	105.8	102.9	100.7	99.3	97.6	97.0	97.2
65°	89.8	87.4	85.2	83.7	83.3	82.1	82.6
67.5°	75.0	73.4	71.1	70.3	69.6	69.0	68.4
70°	65.1	63.5	62.4	61.2	60.6	60.6	60.6
72.5°	56.8	54.9	54.2	52.8	53.1	52.5	51.8
75°	44.0	42.8	42.3	41.7	40.7	40.7	40.7
77.5°	32.4	32.0	31.3	30.7	30.5	30.3	30.4
80°	25.1	24.8	24.5	24.5	24.0	23.8	23.5
82.5°	19.3	18.8	18.5	18.3	18.3	18.3	18.2
85°	10.9	10.6	10.6	10.8	10.3	10.3	10.6
87.5°	10.1	10.0	9.8	9.9	10.1	10.0	10.0
90°	29.4	28.9	28.8	29.1	29.3	29.4	29.6
92.5°	28.0	28.1	28.1	28.2	28.2	28.2	28.2
95°	55.8	55.8	55.6	55.2	54.8	54.4	54.1
97.5°	93.8	93.8	93.8	93.8	93.8	93.7	93.7
100°	120.4	120.4	120.3	120.0	119.9	119.7	119.5
102.5°	149.4	149.6	149.6	149.4	149.1	149.0	148.8
105°	193.0	193.4	193.6	193.6	193.6	193.6	193.6
107.5°	239.6	239.7	239.4	238.5	237.5	236.7	235.8
110°	271.2	271.2	271.0	270.4	269.8	269.1	268.6



TEST NUMBER: P331478-935

CATALOG NUMBER: S122DIW-S290D970U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	302.6	302.1	301.7	301.3	300.8	300.4	300.0
115°	351.7	351.5	351.1	350.6	350.0	349.4	348.8
117.5°	398.7	398.2	397.7	397.2	396.6	396.0	395.4
120°	430.8	430.8	430.5	429.9	429.4	428.8	428.2
122.5°	462.9	462.4	462.0	461.6	461.2	460.7	460.3
125°	511.0	510.5	510.1	509.9	509.7	509.5	509.3
127.5°	557.8	557.1	556.4	555.8	555.2	554.6	554.0
130°	590.1	589.7	589.1	588.3	587.5	586.8	586.0
132.5°	620.8	619.9	619.2	618.6	617.9	617.3	616.7
135°	667.4	667.2	666.8	666.2	665.6	665.1	664.5
137.5°	711.5	711.4	710.8	710.1	709.3	708.5	707.7
140°	741.2	741.2	740.9	740.1	739.3	738.6	737.8
142.5°	768.3	768.4	768.1	767.3	766.5	765.8	765.0
145°	809.0	809.2	808.9	808.1	807.4	806.6	805.8
147.5°	844.9	845.3	845.2	844.5	843.7	843.0	842.2
150°	867.7	868.3	868.3	867.7	867.1	866.5	866.0
152.5°	890.5	891.2	891.2	890.5	889.8	889.0	888.3
155°	919.5	920.4	920.6	920.1	919.5	918.9	918.3
157.5°	946.3	947.6	947.8	946.9	946.0	945.0	944.1
160°	961.9	963.0	963.3	962.5	961.7	961.0	960.2
162.5°	976.3	977.7	977.8	976.9	975.9	975.0	974.1
165°	994.7	996.1	996.3	995.3	994.4	993.4	992.4
167.5°	1010.0	1011.2	1011.4	1010.5	1009.4	1008.4	1007.5
170°	1018.3	1019.7	1019.8	1018.6	1017.4	1016.2	1015.1
172.5°	1024.6	1025.9	1026.1	1024.8	1023.7	1022.5	1021.4
175°	1031.4	1032.7	1032.9	1031.7	1030.5	1029.3	1028.2
177.5°	1034.1	1035.0	1035.0	1034.1	1033.2	1032.3	1031.3
180°	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4	1033.4

(END OF REPORT)