

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: P331501-930

Luminaire Tested: **S122DIW-S485D710U930-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331501-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DIW-S485D710U930-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 710 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4061.4 lumens
Efficiency: N/A
Efficacy: 108.0 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: General Diffuse

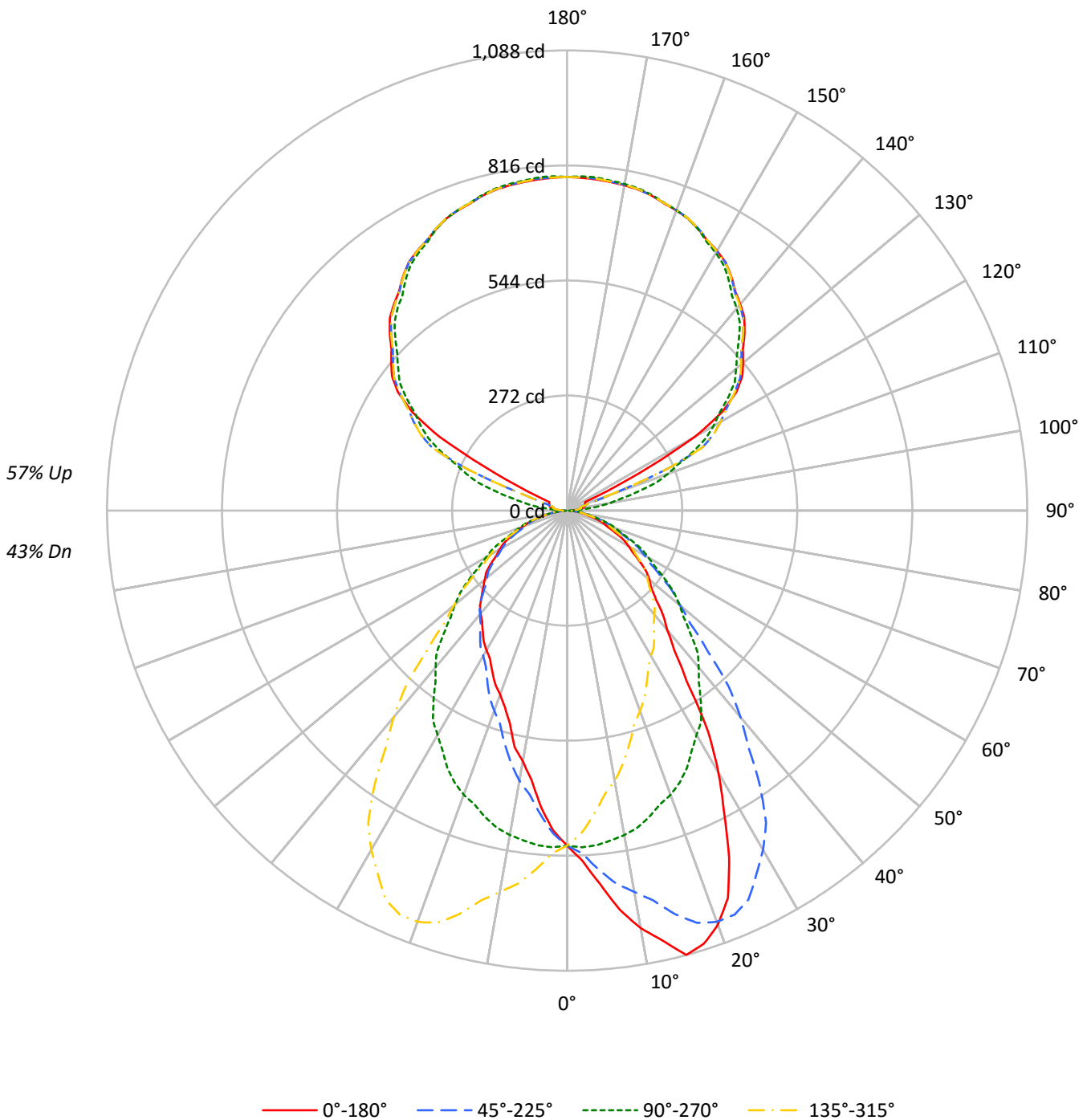
Input Watts (W): 37.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	50	30	10	50	30	10	50	30	10	0																
RCR																																														
0	105	105	105	105	96	96	96	96	79	79	79	64	64	64	50	50	50	43																												
1	97	93	89	85	88	85	82	79	70	68	66	57	55	54	45	44	43	37																												
2	88	81	75	70	81	75	70	65	62	58	55	50	48	46	40	38	37	32																												
3	81	72	65	59	74	66	60	55	55	51	47	45	42	39	36	33	32	27																												
4	74	64	56	50	68	59	52	47	49	44	40	40	37	34	32	30	28	24																												
5	68	57	49	43	62	53	46	41	44	39	35	36	33	30	29	26	24	21																												
6	63	51	43	38	57	47	40	35	40	35	31	33	29	26	27	24	22	19																												
7	58	46	39	33	53	43	36	31	36	31	27	30	26	23	24	22	19	17																												
8	54	42	35	29	49	39	32	28	33	28	24	28	24	21	22	20	17	15																												
9	50	39	31	26	46	36	29	25	30	25	22	25	22	19	21	18	16	14																												
10	47	35	28	24	43	33	27	22	28	23	20	24	20	17	19	17	15	13																												

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12791	12791	12791	12791
5°	14340	12875	11408	12875
10°	16433	12770	9875	12770
15°	18180	12535	8724	12535
20°	17904	12283	7952	12283
25°	16142	11948	7464	11948
30°	13340	11415	7107	11415
35°	9723	10857	6853	10857
40°	7765	10197	6713	10197
45°	6786	9435	6521	9435
50°	6380	8696	6393	8696
55°	5880	7947	6221	7947
60°	5389	7149	5958	7149
65°	4909	6434	5700	6434
70°	4456	5736	5320	5736
75°	3949	4959	4710	4959
80°	3394	4110	3794	4110
85°	3057	3057	2242	3057



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.5	1.9
10°-20°	219.3	5.4
20°-30°	318.3	7.8
30°-40°	335.9	8.3
40°-50°	297.4	7.3
50°-60°	237.4	5.8
60°-70°	161.3	4.0
70°-80°	82.7	2.0
80°-90°	21.9	0.5
90°-100°	26.3	0.6
100°-110°	96.5	2.4
110°-120°	257.9	6.4
120°-130°	425.7	10.5
130°-140°	452.8	11.1
140°-150°	420.8	10.4
150°-160°	338.4	8.3
160°-170°	218.0	5.4
170°-180°	75.1	1.8
0°-30°	613.1	15.1
0°-40°	949.1	23.4
0°-60°	1483.9	36.5
0°-90°	1749.8	43.1
90°-120°	380.7	9.4
90°-150°	1680.1	41.4
90°-180°	2312.0	56.9
0°-180°	4061.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	792	792	792	792	792	
5°	885	794	704	794	885	88
15°	1088	750	522	750	1088	300
25°	906	671	419	671	906	410
35°	493	551	348	551	493	321
45°	297	413	286	413	297	234
55°	209	282	221	282	209	187
65°	128	168	149	168	128	128
75°	63	80	76	80	63	68
85°	16	16	12	16	16	18
90°	15	1	15	1	15	8
95°	24	37	24	37	24	23
105°	43	174	43	174	43	45
115°	47	328	47	328	47	117
125°	488	464	488	464	488	422
135°	593	574	593	574	593	457
145°	676	666	676	666	676	423
155°	734	733	734	733	734	339
165°	771	773	771	773	771	218
175°	786	790	786	790	786	75
180°	789	789	789	789	789	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2
2.5°	828.8	829.1	829.5	825.7	825.2	825.2	821.7	818.8	815.4	810.7	811.2
5°	884.8	888.2	889.4	885.7	880.3	879.6	874.5	865.9	858.0	851.7	847.1
7.5°	951.7	953.0	950.1	945.3	941.2	933.8	924.2	914.8	901.6	889.4	880.4
10°	1002.3	1004.2	999.0	992.0	986.2	977.7	963.7	949.3	932.1	915.3	901.9
12.5°	1040.8	1045.4	1038.7	1037.8	1027.8	1016.2	999.5	992.2	967.8	944.5	930.1
15°	1087.6	1087.3	1087.9	1082.1	1074.8	1073.0	1055.3	1036.2	1001.8	988.1	964.3
17.5°	1074.1	1078.7	1080.8	1080.8	1080.6	1079.5	1073.7	1061.7	1044.4	1022.2	994.8
20°	1042.0	1048.0	1049.0	1056.0	1059.9	1065.1	1067.2	1063.9	1053.2	1034.6	1010.9
22.5°	992.2	993.9	996.8	1007.7	1016.3	1029.2	1036.0	1047.3	1043.2	1034.1	1014.3
25°	906.1	903.1	913.7	919.2	939.0	959.7	974.6	991.1	1005.7	1014.6	1008.8
27.5°	802.7	798.2	814.2	828.7	844.7	867.2	890.4	917.9	940.7	969.3	979.1
30°	715.5	718.3	733.5	749.0	773.4	805.0	831.2	861.4	894.0	925.9	948.1
32.5°	621.5	632.0	641.6	665.4	686.9	722.2	760.6	798.3	838.9	875.2	909.6
35°	493.3	505.4	518.9	536.2	566.3	601.4	638.8	689.7	745.1	794.7	835.5
37.5°	415.2	413.3	420.9	433.5	457.9	486.2	529.2	579.5	644.7	703.0	760.6
40°	368.4	367.2	372.7	384.3	402.8	423.5	461.3	505.4	566.1	637.2	705.8
42.5°	336.2	337.0	340.1	348.2	360.9	378.0	406.3	443.8	499.3	566.4	640.0
45°	297.2	299.3	302.6	306.6	313.9	327.9	343.7	370.6	414.4	470.4	542.9
47.5°	269.0	269.1	272.5	276.0	280.3	288.2	301.2	318.0	348.9	394.5	456.8
50°	254.0	251.8	254.2	257.0	261.5	267.0	275.6	291.4	312.1	348.9	401.0
52.5°	235.5	235.5	237.7	238.7	242.8	248.3	256.1	267.0	285.8	314.6	357.4
55°	208.9	210.4	211.7	213.4	217.1	221.0	227.1	234.5	249.1	270.7	302.3
57.5°	183.9	184.4	185.6	189.1	191.4	195.0	200.8	207.5	217.0	233.0	256.8
60°	166.9	166.9	169.3	170.8	173.8	177.5	182.1	188.5	197.0	210.1	229.3
62.5°	151.2	151.0	152.0	154.5	156.8	160.2	164.8	170.2	178.2	189.9	205.6
65°	128.5	127.9	129.7	130.3	132.7	136.1	139.7	145.5	152.0	160.5	174.5
67.5°	106.6	107.3	108.3	109.4	110.8	114.3	116.8	120.8	126.2	133.3	142.8
70°	94.4	94.4	94.4	95.3	97.1	99.0	101.4	104.8	109.9	116.0	124.5
72.5°	80.7	81.7	82.7	82.2	84.5	85.5	88.5	90.3	95.3	99.2	106.7
75°	63.3	63.3	63.3	64.8	65.8	66.7	68.5	70.4	72.8	77.6	81.6
77.5°	47.3	47.1	47.5	47.8	48.8	49.9	50.4	52.1	54.3	56.6	59.9
80°	36.5	37.2	37.4	38.1	38.1	38.6	39.0	41.1	42.6	44.2	46.3
82.5°	28.3	28.4	28.5	28.5	28.8	29.2	29.9	30.7	31.1	32.4	34.1
85°	16.5	16.1	16.1	16.7	16.5	16.5	17.0	17.7	17.7	17.9	18.9
87.5°	9.4	9.4	9.5	9.3	9.2	9.4	9.2	8.9	9.0	9.1	9.1
90°	15.4	15.2	14.9	14.7	14.4	13.9	13.3	12.7	12.1	11.4	10.4
92.5°	15.4	15.2	15.1	14.9	14.8	14.6	14.3	13.9	13.5	13.2	12.7
95°	24.5	24.7	24.8	24.9	25.0	24.8	24.1	23.6	22.9	22.3	21.4
97.5°	32.8	32.6	32.4	32.3	32.1	31.8	31.3	30.8	30.3	29.8	27.7
100°	38.2	38.0	37.7	37.5	37.3	36.6	35.5	34.6	33.5	32.5	30.4
102.5°	41.0	40.6	40.3	39.9	39.5	38.7	37.4	36.1	34.7	33.4	31.4
105°	43.4	42.9	42.4	41.8	41.3	40.4	39.0	37.6	36.2	34.8	32.5
107.5°	44.6	44.1	43.6	43.1	42.6	43.0	44.5	45.9	47.3	48.8	49.3
110°	45.1	44.6	44.1	43.5	43.0	49.2	61.8	74.5	87.2	99.9	136.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	45.6	45.2	44.8	44.4	43.9	66.9	113.2	159.4	205.7	251.9	261.0
115°	46.8	55.9	65.1	74.2	83.3	117.2	175.9	234.7	293.4	352.1	348.9
117.5°	191.1	221.1	251.1	281.1	311.1	333.2	347.4	361.7	375.9	390.0	387.8
120°	348.1	365.3	382.4	399.5	416.6	424.4	422.9	421.4	419.9	418.3	416.0
122.5°	434.5	437.8	441.1	444.4	447.8	449.0	448.0	447.1	446.2	445.3	442.8
125°	488.0	487.6	487.2	486.8	486.5	485.8	484.9	484.0	483.1	482.2	479.9
127.5°	521.8	521.7	521.6	521.5	521.5	520.8	519.5	518.2	516.9	515.6	513.8
130°	542.8	542.9	543.1	543.2	543.3	542.7	541.3	539.9	538.5	537.1	535.7
132.5°	563.4	563.5	563.6	563.7	563.9	563.3	562.1	560.9	559.7	558.6	557.2
135°	593.0	593.3	593.5	593.8	594.0	593.5	592.2	591.0	589.7	588.5	587.3
137.5°	620.0	620.5	620.9	621.3	621.8	621.4	620.1	618.9	617.7	616.4	615.1
140°	637.0	637.6	638.2	638.9	639.5	639.3	638.1	637.0	635.9	634.7	633.2
142.5°	653.4	654.0	654.7	655.3	655.9	655.7	654.7	653.6	652.6	651.6	650.0
145°	676.4	676.9	677.6	678.2	678.9	678.7	677.8	676.9	676.1	675.2	673.0
147.5°	696.5	697.1	697.7	698.1	698.7	698.6	698.0	697.3	696.7	695.9	693.8
150°	708.9	709.5	710.1	710.8	711.4	711.3	710.6	709.8	709.1	708.3	706.3
152.5°	719.3	720.2	721.1	721.9	722.8	722.8	722.0	721.2	720.5	719.7	717.8
155°	734.0	735.0	736.1	737.0	738.0	738.2	737.4	736.6	735.9	735.2	733.6
157.5°	747.3	748.4	749.3	750.3	751.3	751.4	750.5	749.7	748.8	747.9	746.8
160°	755.1	756.0	756.8	757.7	758.6	758.7	758.0	757.2	756.4	755.7	754.9
162.5°	761.5	762.5	763.7	764.8	765.9	766.0	765.1	764.3	763.4	762.5	761.9
165°	771.1	772.0	772.9	773.7	774.6	774.6	773.7	772.9	772.0	771.1	770.7
167.5°	777.1	778.3	779.4	780.6	781.7	781.8	781.0	780.1	779.2	778.3	778.0
170°	780.8	782.0	783.1	784.2	785.4	785.5	784.6	783.7	782.9	782.0	781.7
172.5°	783.5	784.6	785.8	786.9	788.1	788.2	787.3	786.4	785.5	784.6	784.4
175°	785.9	787.2	788.5	789.7	791.0	791.2	790.3	789.5	788.6	787.7	787.4
177.5°	787.4	788.3	789.2	790.2	791.1	791.2	790.4	789.8	789.0	788.3	788.2
180°	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2
2.5°	812.9	811.0	809.8	805.4	801.5	797.6	796.4	796.9	791.5	786.4	784.2
5°	844.7	838.5	832.7	824.5	814.8	804.1	798.7	794.4	783.7	772.2	765.5
7.5°	873.0	864.3	853.1	837.7	823.5	806.7	796.1	786.7	771.0	754.7	744.8
10°	890.3	878.4	864.1	845.2	827.9	807.5	793.2	778.9	760.6	741.1	729.0
12.5°	905.1	889.2	875.1	850.8	830.3	804.8	787.8	767.7	748.4	725.3	713.3
15°	940.5	911.0	884.2	856.8	831.5	795.9	777.1	749.9	724.6	696.0	682.3
17.5°	967.8	934.7	892.5	857.7	828.2	788.7	761.0	728.6	698.6	665.9	647.3
20°	983.5	945.4	900.0	858.7	823.3	778.3	748.1	714.9	679.9	643.0	623.0
22.5°	992.7	952.8	907.8	855.0	813.6	769.7	731.8	695.5	659.9	620.2	599.1
25°	995.6	959.1	911.6	851.9	801.4	751.8	706.0	670.7	627.9	590.7	559.9
27.5°	981.1	955.0	909.3	846.2	787.3	729.3	678.4	638.4	593.0	552.8	521.8
30°	963.4	948.1	903.7	840.3	776.1	713.7	657.7	612.3	567.3	526.4	494.8
32.5°	935.9	932.5	893.5	832.1	764.2	694.0	636.0	590.1	540.2	500.1	469.9
35°	881.7	896.4	871.7	813.6	741.7	665.9	603.2	550.8	499.0	460.6	432.4
37.5°	809.3	845.6	839.2	786.4	711.3	635.4	566.1	511.4	462.0	423.3	395.5
40°	759.4	805.7	812.4	765.7	690.0	611.7	538.3	483.8	435.7	400.4	372.3
42.5°	705.8	759.9	778.3	740.9	666.6	586.9	513.5	457.1	409.4	375.0	350.3
45°	616.0	687.5	720.7	699.4	627.5	545.9	470.4	413.2	370.0	337.7	318.5
47.5°	532.0	610.2	654.8	647.3	584.1	503.3	428.7	373.7	331.7	305.9	288.7
50°	472.5	552.9	606.8	609.3	552.9	472.9	397.9	346.2	307.5	283.5	269.5
52.5°	420.9	497.7	556.4	569.3	518.1	441.2	370.4	318.9	284.9	262.8	250.2
55°	353.5	418.3	483.6	507.3	466.2	393.1	327.6	282.3	250.3	235.1	224.1
57.5°	293.9	348.0	408.1	434.4	409.0	346.5	285.1	245.7	219.8	206.4	198.0
60°	262.4	305.1	358.7	390.0	368.1	312.4	258.8	221.4	200.1	188.2	180.3
62.5°	233.3	271.0	316.3	345.0	333.0	280.5	232.5	199.4	181.1	169.9	164.2
65°	192.4	222.3	257.3	283.8	275.9	235.9	196.7	168.4	153.8	145.0	140.4
67.5°	158.4	180.0	204.3	227.5	221.1	192.8	161.3	139.3	128.3	120.7	118.1
70°	137.1	153.4	175.0	193.6	188.5	165.3	140.4	121.5	112.0	105.7	102.9
72.5°	116.6	130.0	146.6	161.8	158.2	139.0	118.2	104.0	96.7	90.8	88.5
75°	88.0	98.3	108.4	118.5	117.6	102.6	90.4	79.5	73.7	69.1	68.2
77.5°	65.0	70.8	77.6	83.6	81.9	73.4	63.8	57.6	53.3	50.2	49.7
80°	49.7	53.0	57.9	62.1	60.0	56.3	48.8	44.2	41.1	38.1	36.9
82.5°	36.0	39.4	42.2	44.6	43.0	39.5	34.8	31.7	29.9	27.8	27.3
85°	18.9	20.7	21.9	22.5	21.9	19.8	17.7	16.5	14.9	14.0	13.7
87.5°	9.2	9.0	8.8	9.0	8.0	7.7	6.5	5.5	5.5	5.5	5.3
90°	9.4	8.4	7.3	6.1	4.7	3.3	2.0	0.6	2.0	3.3	4.7
92.5°	12.2	11.7	11.3	11.0	11.2	11.3	11.4	11.5	11.4	11.3	11.2
95°	20.5	19.6	18.7	20.4	24.5	28.7	32.9	37.1	32.9	28.7	24.5
97.5°	25.7	23.6	21.6	26.4	38.2	50.1	61.8	73.6	61.8	50.1	38.2
100°	28.2	26.1	23.9	31.6	48.9	66.3	83.6	101.0	83.6	66.3	48.9
102.5°	69.5	87.6	105.6	116.4	120.1	123.8	127.5	131.2	127.5	123.8	120.1
105°	104.0	138.7	173.3	188.7	184.9	181.2	177.3	173.5	177.3	181.2	184.9
107.5°	131.8	173.3	214.8	234.1	231.0	228.0	224.9	221.8	224.9	228.0	231.0
110°	173.2	209.9	246.5	263.5	260.8	258.2	255.5	252.8	255.5	258.2	260.8



TEST NUMBER: P331501-930

CATALOG NUMBER: S122DIW-S485D710U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	270.0	279.1	288.1	291.5	289.1	286.8	284.5	282.1	284.5	286.8	289.1
115°	345.8	342.7	339.5	336.8	334.7	332.5	330.4	328.2	330.4	332.5	334.7
117.5°	385.7	383.5	381.3	379.0	376.6	374.2	371.8	369.4	371.8	374.2	376.6
120°	413.8	411.5	409.2	407.2	405.2	403.3	401.5	399.5	401.5	403.3	405.2
122.5°	440.3	437.8	435.4	433.1	431.1	429.1	427.1	425.1	427.1	429.1	431.1
125°	477.4	475.1	472.6	470.6	469.0	467.3	465.7	464.0	465.7	467.3	469.0
127.5°	512.0	510.2	508.4	506.6	504.8	503.0	501.1	499.3	501.1	503.0	504.8
130°	534.3	532.9	531.5	529.8	527.7	525.7	523.7	521.6	523.7	525.7	527.7
132.5°	555.7	554.3	552.9	551.4	549.7	548.0	546.3	544.5	546.3	548.0	549.7
135°	586.2	585.1	583.9	582.3	580.2	578.2	576.2	574.2	576.2	578.2	580.2
137.5°	613.8	612.5	611.2	609.8	608.5	607.1	605.6	604.2	605.6	607.1	608.5
140°	631.9	630.5	629.1	627.9	626.9	625.8	624.8	623.9	624.8	625.8	626.9
142.5°	648.4	646.8	645.1	643.9	643.0	642.1	641.2	640.3	641.2	642.1	643.0
145°	670.9	668.7	666.6	665.5	665.7	665.9	665.9	666.1	665.9	665.9	665.7
147.5°	691.7	689.6	687.5	686.6	687.1	687.6	688.1	688.5	688.1	687.6	687.1
150°	704.3	702.2	700.2	699.6	700.5	701.4	702.3	703.2	702.3	701.4	700.5
152.5°	715.8	714.0	712.0	711.5	712.5	713.5	714.5	715.5	714.5	713.5	712.5
155°	732.1	730.6	729.0	728.9	730.0	731.2	732.3	733.4	732.3	731.2	730.0
157.5°	745.8	744.7	743.6	743.6	744.5	745.5	746.5	747.5	746.5	745.5	744.5
160°	754.2	753.4	752.6	752.6	753.4	754.2	754.9	755.7	754.9	754.2	753.4
162.5°	761.2	760.5	759.9	759.9	760.7	761.5	762.2	763.0	762.2	761.5	760.7
165°	770.3	770.0	769.6	769.7	770.5	771.3	772.0	772.8	772.0	771.3	770.5
167.5°	777.6	777.2	776.9	777.1	777.8	778.6	779.3	780.1	779.3	778.6	777.8
170°	781.5	781.1	780.9	781.1	782.0	782.7	783.4	784.2	783.4	782.7	782.0
172.5°	784.2	783.9	783.7	783.9	784.6	785.5	786.2	786.9	786.2	785.5	784.6
175°	787.2	786.8	786.6	786.9	787.8	788.7	789.6	790.5	789.6	788.7	787.8
177.5°	788.1	788.0	787.9	788.2	789.0	789.6	790.4	791.1	790.4	789.6	789.0
180°	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8



TEST NUMBER: P331501-930

CATALOG NUMBER: S122DIW-S485D710U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2
2.5°	781.8	780.3	775.2	772.5	768.2	764.0	761.3	762.5	763.5	763.0	762.3
5°	759.4	753.6	744.8	737.1	731.6	721.6	717.4	715.3	713.4	711.3	709.1
7.5°	732.7	723.6	710.9	700.1	689.8	677.4	670.3	665.9	661.5	656.7	652.5
10°	713.7	700.9	687.5	672.3	660.1	648.8	638.8	632.1	626.0	620.2	616.0
12.5°	693.7	679.0	662.4	641.6	628.2	612.0	610.6	598.8	589.2	585.6	580.7
15°	661.9	641.2	620.2	595.6	584.9	570.3	561.2	552.0	543.8	538.0	536.5
17.5°	625.8	599.0	578.1	560.4	543.0	528.0	519.6	512.3	505.5	497.7	496.8
20°	598.3	575.2	552.4	536.8	518.9	503.6	493.3	485.9	480.1	475.6	471.7
22.5°	572.3	546.9	526.0	509.0	491.3	479.0	470.8	463.8	459.0	454.0	450.2
25°	530.4	510.6	487.8	468.6	454.0	446.1	439.4	433.3	430.2	426.9	422.7
27.5°	493.8	471.8	450.5	435.6	422.7	415.7	411.0	406.8	404.0	402.0	399.6
30°	468.0	445.7	429.0	414.4	403.7	396.7	393.7	391.3	387.9	386.7	385.5
32.5°	443.1	423.1	408.8	396.2	386.0	381.4	378.6	376.4	373.8	372.6	370.1
35°	408.0	391.3	377.2	370.2	362.0	358.1	356.0	352.9	350.5	349.3	348.9
37.5°	375.0	360.4	351.1	342.2	338.7	336.2	333.4	331.3	330.5	330.4	330.0
40°	353.5	341.6	333.4	326.1	324.6	320.9	318.5	316.7	316.7	317.0	316.7
42.5°	334.0	323.3	316.1	309.8	308.0	305.8	303.4	303.3	303.8	304.8	303.8
45°	304.5	296.9	291.7	288.6	285.3	283.2	282.8	283.8	284.1	284.4	285.3
47.5°	277.3	272.2	267.6	264.2	262.8	262.4	262.0	263.6	265.1	265.6	267.0
50°	261.2	255.4	251.5	249.4	248.2	247.5	248.2	250.0	251.2	252.7	253.6
52.5°	243.2	239.1	236.4	234.7	234.2	234.6	234.7	236.8	238.8	239.3	239.8
55°	218.3	215.2	214.7	211.9	213.1	212.8	214.3	215.6	217.4	219.2	219.6
57.5°	193.5	191.0	189.4	189.6	190.0	191.4	192.6	194.8	196.7	198.6	198.9
60°	176.9	175.7	174.8	174.8	175.4	177.2	178.7	180.8	182.1	183.3	184.2
62.5°	161.8	160.6	159.6	160.1	161.8	162.8	164.6	165.8	167.0	168.2	168.6
65°	137.9	137.3	138.3	138.8	139.2	140.6	142.8	143.7	145.0	145.5	147.7
67.5°	115.9	116.1	115.9	116.8	118.5	119.0	120.9	123.1	123.4	124.5	125.9
70°	101.1	101.7	102.3	102.9	104.4	105.0	106.6	107.5	108.7	109.6	110.6
72.5°	87.5	87.6	88.2	88.1	89.4	90.7	92.0	92.9	94.1	95.2	96.1
75°	67.3	67.3	67.9	68.2	69.7	71.3	70.9	71.6	72.8	74.0	74.6
77.5°	49.2	48.5	49.2	49.4	49.9	51.2	51.4	52.3	53.7	53.3	54.0
80°	37.4	36.5	37.4	37.7	37.7	39.3	39.3	39.9	40.8	39.9	40.8
82.5°	26.7	26.3	27.0	27.1	27.6	27.6	28.0	28.2	29.1	28.7	29.1
85°	13.4	13.1	13.4	13.1	13.4	13.7	13.7	13.4	13.4	14.0	13.1
87.5°	5.4	5.4	5.3	5.5	5.5	5.5	5.3	5.5	5.6	5.2	5.3
90°	6.1	7.3	8.4	9.4	10.4	11.4	12.1	12.7	13.3	13.9	14.4
92.5°	11.0	11.3	11.7	12.2	12.7	13.2	13.5	13.9	14.3	14.6	14.8
95°	20.4	18.7	19.6	20.5	21.4	22.3	22.9	23.6	24.1	24.8	25.0
97.5°	26.4	21.6	23.6	25.7	27.7	29.8	30.3	30.8	31.3	31.8	32.1
100°	31.6	23.9	26.1	28.2	30.4	32.5	33.5	34.6	35.5	36.6	37.3
102.5°	116.4	105.6	87.6	69.5	51.4	33.4	34.7	36.1	37.4	38.7	39.5
105°	188.7	173.3	138.7	104.0	69.5	34.8	36.2	37.6	39.0	40.4	41.3
107.5°	234.1	214.8	173.3	131.8	90.3	48.8	47.3	45.9	44.5	43.0	42.6
110°	263.5	246.5	209.9	173.2	136.6	99.9	87.2	74.5	61.8	49.2	43.0



TEST NUMBER: P331501-930

CATALOG NUMBER: S122DIW-S485D710U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	291.5	288.1	279.1	270.0	261.0	251.9	205.7	159.4	113.2	66.9	43.9
115°	336.8	339.5	342.7	345.8	348.9	352.1	293.4	234.7	175.9	117.2	83.3
117.5°	379.0	381.3	383.5	385.7	387.8	390.0	375.9	361.7	347.4	333.2	311.1
120°	407.2	409.2	411.5	413.8	416.0	418.3	419.9	421.4	422.9	424.4	416.6
122.5°	433.1	435.4	437.8	440.3	442.8	445.3	446.2	447.1	448.0	449.0	447.8
125°	470.6	472.6	475.1	477.4	479.9	482.2	483.1	484.0	484.9	485.8	486.5
127.5°	506.6	508.4	510.2	512.0	513.8	515.6	516.9	518.2	519.5	520.8	521.5
130°	529.8	531.5	532.9	534.3	535.7	537.1	538.5	539.9	541.3	542.7	543.3
132.5°	551.4	552.9	554.3	555.7	557.2	558.6	559.7	560.9	562.1	563.3	563.9
135°	582.3	583.9	585.1	586.2	587.3	588.5	589.7	591.0	592.2	593.5	594.0
137.5°	609.8	611.2	612.5	613.8	615.1	616.4	617.7	618.9	620.1	621.4	621.8
140°	627.9	629.1	630.5	631.9	633.2	634.7	635.9	637.0	638.1	639.3	639.5
142.5°	643.9	645.1	646.8	648.4	650.0	651.6	652.6	653.6	654.7	655.7	655.9
145°	665.5	666.6	668.7	670.9	673.0	675.2	676.1	676.9	677.8	678.7	678.9
147.5°	686.6	687.5	689.6	691.7	693.8	695.9	696.7	697.3	698.0	698.6	698.7
150°	699.6	700.2	702.2	704.3	706.3	708.3	709.1	709.8	710.6	711.3	711.4
152.5°	711.5	712.0	714.0	715.8	717.8	719.7	720.5	721.2	722.0	722.8	722.8
155°	728.9	729.0	730.6	732.1	733.6	735.2	735.9	736.6	737.4	738.2	738.0
157.5°	743.6	743.6	744.7	745.8	746.8	747.9	748.8	749.7	750.5	751.4	751.3
160°	752.6	752.6	753.4	754.2	754.9	755.7	756.4	757.2	758.0	758.7	758.6
162.5°	759.9	759.9	760.5	761.2	761.9	762.5	763.4	764.3	765.1	766.0	765.9
165°	769.7	769.6	770.0	770.3	770.7	771.1	772.0	772.9	773.7	774.6	774.6
167.5°	777.1	776.9	777.2	777.6	778.0	778.3	779.2	780.1	781.0	781.8	781.7
170°	781.1	780.9	781.1	781.5	781.7	782.0	782.9	783.7	784.6	785.5	785.4
172.5°	783.9	783.7	783.9	784.2	784.4	784.6	785.5	786.4	787.3	788.2	788.1
175°	786.9	786.6	786.8	787.2	787.4	787.7	788.6	789.5	790.3	791.2	791.0
177.5°	788.2	787.9	788.0	788.1	788.2	788.3	789.0	789.8	790.4	791.2	791.1
180°	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8



TEST NUMBER: P331501-930

CATALOG NUMBER: S122DIW-S485D710U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2
2.5°	759.9	759.4	759.4	757.2	759.4	759.4	759.9	762.3	763.0	763.5	762.5
5°	704.9	703.9	702.5	703.9	702.5	703.9	704.9	709.1	711.3	713.4	715.3
7.5°	650.5	646.9	646.3	642.7	646.3	646.9	650.5	652.5	656.7	661.5	665.9
10°	610.8	608.4	608.1	602.3	608.1	608.4	610.8	616.0	620.2	626.0	632.1
12.5°	580.6	574.7	575.9	572.6	575.9	574.7	580.6	580.7	585.6	589.2	598.8
15°	528.2	528.2	527.1	521.9	527.1	528.2	528.2	536.5	538.0	543.8	552.0
17.5°	490.7	490.1	487.1	488.6	487.1	490.1	490.7	496.8	497.7	505.5	512.3
20°	468.3	466.4	462.8	462.8	462.8	466.4	468.3	471.7	475.6	480.1	485.9
22.5°	447.1	446.9	443.1	444.3	443.1	446.9	447.1	450.2	454.0	459.0	463.8
25°	422.3	419.9	418.1	419.0	418.1	419.9	422.3	422.7	426.9	430.2	433.3
27.5°	398.8	397.5	397.4	394.8	397.4	397.5	398.8	399.6	402.0	404.0	406.8
30°	385.1	382.1	382.7	381.2	382.7	382.1	385.1	385.5	386.7	387.9	391.3
32.5°	369.6	368.5	367.9	366.6	367.9	368.5	369.6	370.1	372.6	373.8	376.4
35°	348.3	348.6	347.1	347.7	347.1	348.6	348.3	348.9	349.3	350.5	352.9
37.5°	329.8	330.8	330.0	330.2	330.0	330.8	329.8	330.0	330.4	330.5	331.3
40°	317.6	317.6	317.6	318.5	317.6	317.6	317.6	316.7	317.0	316.7	316.7
42.5°	305.9	305.4	304.9	304.8	304.9	305.4	305.9	303.8	304.8	303.8	303.3
45°	285.9	286.8	287.1	285.6	287.1	286.8	285.9	285.3	284.4	284.1	283.8
47.5°	267.8	267.9	267.8	269.1	267.8	267.9	267.8	267.0	265.6	265.1	263.6
50°	255.2	254.5	255.2	254.5	255.2	254.5	255.2	253.6	252.7	251.2	250.0
52.5°	241.7	241.9	241.5	241.4	241.5	241.9	241.7	239.8	239.3	238.8	236.8
55°	220.8	221.4	221.0	221.0	221.0	221.4	220.8	219.6	219.2	217.4	215.6
57.5°	199.0	199.6	200.0	198.6	200.0	199.6	199.0	198.9	198.6	196.7	194.8
60°	183.9	185.4	185.2	184.5	185.2	185.4	183.9	184.2	183.3	182.1	180.8
62.5°	170.0	170.6	170.5	170.4	170.5	170.6	170.0	168.6	168.2	167.0	165.8
65°	148.5	149.2	148.3	149.2	148.3	149.2	148.5	147.7	145.5	145.0	143.7
67.5°	125.5	125.7	126.4	126.8	126.4	125.7	125.5	125.9	124.5	123.4	123.1
70°	111.1	110.8	111.8	112.7	111.8	110.8	111.1	110.6	109.6	108.7	107.5
72.5°	96.0	96.7	96.4	97.1	96.4	96.7	96.0	96.1	95.2	94.1	92.9
75°	74.0	74.9	74.6	75.5	74.6	74.9	74.0	74.6	74.0	72.8	71.6
77.5°	53.5	53.6	53.5	54.0	53.5	53.6	53.5	54.0	53.3	53.7	52.3
80°	40.8	40.2	39.5	40.8	39.5	40.2	40.8	40.8	39.9	40.8	39.9
82.5°	28.4	28.8	28.1	28.1	28.1	28.8	28.4	29.1	28.7	29.1	28.2
85°	13.1	12.8	12.1	12.1	12.1	12.8	13.1	13.1	14.0	13.4	13.4
87.5°	5.4	5.1	5.2	5.1	5.2	5.1	5.4	5.3	5.2	5.6	5.5
90°	14.7	14.9	15.2	15.4	15.2	14.9	14.7	14.4	13.9	13.3	12.7
92.5°	14.9	15.1	15.2	15.4	15.2	15.1	14.9	14.8	14.6	14.3	13.9
95°	24.9	24.8	24.7	24.5	24.7	24.8	24.9	25.0	24.8	24.1	23.6
97.5°	32.3	32.4	32.6	32.8	32.6	32.4	32.3	32.1	31.8	31.3	30.8
100°	37.5	37.7	38.0	38.2	38.0	37.7	37.5	37.3	36.6	35.5	34.6
102.5°	39.9	40.3	40.6	41.0	40.6	40.3	39.9	39.5	38.7	37.4	36.1
105°	41.8	42.4	42.9	43.4	42.9	42.4	41.8	41.3	40.4	39.0	37.6
107.5°	43.1	43.6	44.1	44.6	44.1	43.6	43.1	42.6	43.0	44.5	45.9
110°	43.5	44.1	44.6	45.1	44.6	44.1	43.5	43.0	49.2	61.8	74.5



TEST NUMBER: P331501-930

CATALOG NUMBER: S122DIW-S485D710U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	44.4	44.8	45.2	45.6	45.2	44.8	44.4	43.9	66.9	113.2	159.4
115°	74.2	65.1	55.9	46.8	55.9	65.1	74.2	83.3	117.2	175.9	234.7
117.5°	281.1	251.1	221.1	191.1	221.1	251.1	281.1	311.1	333.2	347.4	361.7
120°	399.5	382.4	365.3	348.1	365.3	382.4	399.5	416.6	424.4	422.9	421.4
122.5°	444.4	441.1	437.8	434.5	437.8	441.1	444.4	447.8	449.0	448.0	447.1
125°	486.8	487.2	487.6	488.0	487.6	487.2	486.8	486.5	485.8	484.9	484.0
127.5°	521.5	521.6	521.7	521.8	521.7	521.6	521.5	521.5	520.8	519.5	518.2
130°	543.2	543.1	542.9	542.8	542.9	543.1	543.2	543.3	542.7	541.3	539.9
132.5°	563.7	563.6	563.5	563.4	563.5	563.6	563.7	563.9	563.3	562.1	560.9
135°	593.8	593.5	593.3	593.0	593.3	593.5	593.8	594.0	593.5	592.2	591.0
137.5°	621.3	620.9	620.5	620.0	620.5	620.9	621.3	621.8	621.4	620.1	618.9
140°	638.9	638.2	637.6	637.0	637.6	638.2	638.9	639.5	639.3	638.1	637.0
142.5°	655.3	654.7	654.0	653.4	654.0	654.7	655.3	655.9	655.7	654.7	653.6
145°	678.2	677.6	676.9	676.4	676.9	677.6	678.2	678.9	678.7	677.8	676.9
147.5°	698.1	697.7	697.1	696.5	697.1	697.7	698.1	698.7	698.6	698.0	697.3
150°	710.8	710.1	709.5	708.9	709.5	710.1	710.8	711.4	711.3	710.6	709.8
152.5°	721.9	721.1	720.2	719.3	720.2	721.1	721.9	722.8	722.8	722.0	721.2
155°	737.0	736.1	735.0	734.0	735.0	736.1	737.0	738.0	738.2	737.4	736.6
157.5°	750.3	749.3	748.4	747.3	748.4	749.3	750.3	751.3	751.4	750.5	749.7
160°	757.7	756.8	756.0	755.1	756.0	756.8	757.7	758.6	758.7	758.0	757.2
162.5°	764.8	763.7	762.5	761.5	762.5	763.7	764.8	765.9	766.0	765.1	764.3
165°	773.7	772.9	772.0	771.1	772.0	772.9	773.7	774.6	774.6	773.7	772.9
167.5°	780.6	779.4	778.3	777.1	778.3	779.4	780.6	781.7	781.8	781.0	780.1
170°	784.2	783.1	782.0	780.8	782.0	783.1	784.2	785.4	785.5	784.6	783.7
172.5°	786.9	785.8	784.6	783.5	784.6	785.8	786.9	788.1	788.2	787.3	786.4
175°	789.7	788.5	787.2	785.9	787.2	788.5	789.7	791.0	791.2	790.3	789.5
177.5°	790.2	789.2	788.3	787.4	788.3	789.2	790.2	791.1	791.2	790.4	789.8
180°	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8



TEST NUMBER: P331501-930

CATALOG NUMBER: S122DIW-S485D710U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2
2.5°	761.3	764.0	768.2	772.5	775.2	780.3	781.8	784.2	786.4	791.5	796.9
5°	717.4	721.6	731.6	737.1	744.8	753.6	759.4	765.5	772.2	783.7	794.4
7.5°	670.3	677.4	689.8	700.1	710.9	723.6	732.7	744.8	754.7	771.0	786.7
10°	638.8	648.8	660.1	672.3	687.5	700.9	713.7	729.0	741.1	760.6	778.9
12.5°	610.6	612.0	628.2	641.6	662.4	679.0	693.7	713.3	725.3	748.4	767.7
15°	561.2	570.3	584.9	595.6	620.2	641.2	661.9	682.3	696.0	724.6	749.9
17.5°	519.6	528.0	543.0	560.4	578.1	599.0	625.8	647.3	665.9	698.6	728.6
20°	493.3	503.6	518.9	536.8	552.4	575.2	598.3	623.0	643.0	679.9	714.9
22.5°	470.8	479.0	491.3	509.0	526.0	546.9	572.3	599.1	620.2	659.9	695.5
25°	439.4	446.1	454.0	468.6	487.8	510.6	530.4	559.9	590.7	627.9	670.7
27.5°	411.0	415.7	422.7	435.6	450.5	471.8	493.8	521.8	552.8	593.0	638.4
30°	393.7	396.7	403.7	414.4	429.0	445.7	468.0	494.8	526.4	567.3	612.3
32.5°	378.6	381.4	386.0	396.2	408.8	423.1	443.1	469.9	500.1	540.2	590.1
35°	356.0	358.1	362.0	370.2	377.2	391.3	408.0	432.4	460.6	499.0	550.8
37.5°	333.4	336.2	338.7	342.2	351.1	360.4	375.0	395.5	423.3	462.0	511.4
40°	318.5	320.9	324.6	326.1	333.4	341.6	353.5	372.3	400.4	435.7	483.8
42.5°	303.4	305.8	308.0	309.8	316.1	323.3	334.0	350.3	375.0	409.4	457.1
45°	282.8	283.2	285.3	288.6	291.7	296.9	304.5	318.5	337.7	370.0	413.2
47.5°	262.0	262.4	262.8	264.2	267.6	272.2	277.3	288.7	305.9	331.7	373.7
50°	248.2	247.5	248.2	249.4	251.5	255.4	261.2	269.5	283.5	307.5	346.2
52.5°	234.7	234.6	234.2	234.7	236.4	239.1	243.2	250.2	262.8	284.9	318.9
55°	214.3	212.8	213.1	211.9	214.7	215.2	218.3	224.1	235.1	250.3	282.3
57.5°	192.6	191.4	190.0	189.6	189.4	191.0	193.5	198.0	206.4	219.8	245.7
60°	178.7	177.2	175.4	174.8	174.8	175.7	176.9	180.3	188.2	200.1	221.4
62.5°	164.6	162.8	161.8	160.1	159.6	160.6	161.8	164.2	169.9	181.1	199.4
65°	142.8	140.6	139.2	138.8	138.3	137.3	137.9	140.4	145.0	153.8	168.4
67.5°	120.9	119.0	118.5	116.8	115.9	116.1	115.9	118.1	120.7	128.3	139.3
70°	106.6	105.0	104.4	102.9	102.3	101.7	101.1	102.9	105.7	112.0	121.5
72.5°	92.0	90.7	89.4	88.1	88.2	87.6	87.5	88.5	90.8	96.7	104.0
75°	70.9	71.3	69.7	68.2	67.9	67.3	67.3	68.2	69.1	73.7	79.5
77.5°	51.4	51.2	49.9	49.4	49.2	48.5	49.2	49.7	50.2	53.3	57.6
80°	39.3	39.3	37.7	37.7	37.4	36.5	37.4	36.9	38.1	41.1	44.2
82.5°	28.0	27.6	27.6	27.1	27.0	26.3	26.7	27.3	27.8	29.9	31.7
85°	13.7	13.7	13.4	13.1	13.4	13.1	13.4	13.7	14.0	14.9	16.5
87.5°	5.3	5.5	5.5	5.5	5.3	5.4	5.4	5.3	5.5	5.5	5.5
90°	12.1	11.4	10.4	9.4	8.4	7.3	6.1	4.7	3.3	2.0	0.6
92.5°	13.5	13.2	12.7	12.2	11.7	11.3	11.0	11.2	11.3	11.4	11.5
95°	22.9	22.3	21.4	20.5	19.6	18.7	20.4	24.5	28.7	32.9	37.1
97.5°	30.3	29.8	27.7	25.7	23.6	21.6	26.4	38.2	50.1	61.8	73.6
100°	33.5	32.5	30.4	28.2	26.1	23.9	31.6	48.9	66.3	83.6	101.0
102.5°	34.7	33.4	51.4	69.5	87.6	105.6	116.4	120.1	123.8	127.5	131.2
105°	36.2	34.8	69.5	104.0	138.7	173.3	188.7	184.9	181.2	177.3	173.5
107.5°	47.3	48.8	90.3	131.8	173.3	214.8	234.1	231.0	228.0	224.9	221.8
110°	87.2	99.9	136.6	173.2	209.9	246.5	263.5	260.8	258.2	255.5	252.8



TEST NUMBER: P331501-930

CATALOG NUMBER: S122DIW-S485D710U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	205.7	251.9	261.0	270.0	279.1	288.1	291.5	289.1	286.8	284.5	282.1
115°	293.4	352.1	348.9	345.8	342.7	339.5	336.8	334.7	332.5	330.4	328.2
117.5°	375.9	390.0	387.8	385.7	383.5	381.3	379.0	376.6	374.2	371.8	369.4
120°	419.9	418.3	416.0	413.8	411.5	409.2	407.2	405.2	403.3	401.5	399.5
122.5°	446.2	445.3	442.8	440.3	437.8	435.4	433.1	431.1	429.1	427.1	425.1
125°	483.1	482.2	479.9	477.4	475.1	472.6	470.6	469.0	467.3	465.7	464.0
127.5°	516.9	515.6	513.8	512.0	510.2	508.4	506.6	504.8	503.0	501.1	499.3
130°	538.5	537.1	535.7	534.3	532.9	531.5	529.8	527.7	525.7	523.7	521.6
132.5°	559.7	558.6	557.2	555.7	554.3	552.9	551.4	549.7	548.0	546.3	544.5
135°	589.7	588.5	587.3	586.2	585.1	583.9	582.3	580.2	578.2	576.2	574.2
137.5°	617.7	616.4	615.1	613.8	612.5	611.2	609.8	608.5	607.1	605.6	604.2
140°	635.9	634.7	633.2	631.9	630.5	629.1	627.9	626.9	625.8	624.8	623.9
142.5°	652.6	651.6	650.0	648.4	646.8	645.1	643.9	643.0	642.1	641.2	640.3
145°	676.1	675.2	673.0	670.9	668.7	666.6	665.5	665.7	665.9	665.9	666.1
147.5°	696.7	695.9	693.8	691.7	689.6	687.5	686.6	687.1	687.6	688.1	688.5
150°	709.1	708.3	706.3	704.3	702.2	700.2	699.6	700.5	701.4	702.3	703.2
152.5°	720.5	719.7	717.8	715.8	714.0	712.0	711.5	712.5	713.5	714.5	715.5
155°	735.9	735.2	733.6	732.1	730.6	729.0	728.9	730.0	731.2	732.3	733.4
157.5°	748.8	747.9	746.8	745.8	744.7	743.6	743.6	744.5	745.5	746.5	747.5
160°	756.4	755.7	754.9	754.2	753.4	752.6	752.6	753.4	754.2	754.9	755.7
162.5°	763.4	762.5	761.9	761.2	760.5	759.9	759.9	760.7	761.5	762.2	763.0
165°	772.0	771.1	770.7	770.3	770.0	769.6	769.7	770.5	771.3	772.0	772.8
167.5°	779.2	778.3	778.0	777.6	777.2	776.9	777.1	777.8	778.6	779.3	780.1
170°	782.9	782.0	781.7	781.5	781.1	780.9	781.1	782.0	782.7	783.4	784.2
172.5°	785.5	784.6	784.4	784.2	783.9	783.7	783.9	784.6	785.5	786.2	786.9
175°	788.6	787.7	787.4	787.2	786.8	786.6	786.9	787.8	788.7	789.6	790.5
177.5°	789.0	788.3	788.2	788.1	788.0	787.9	788.2	789.0	789.6	790.4	791.1
180°	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8



TEST NUMBER: P331501-930

CATALOG NUMBER: S122DIW-S485D710U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2
2.5°	796.4	797.6	801.5	805.4	809.8	811.0	812.9	811.2	810.7	815.4	818.8
5°	798.7	804.1	814.8	824.5	832.7	838.5	844.7	847.1	851.7	858.0	865.9
7.5°	796.1	806.7	823.5	837.7	853.1	864.3	873.0	880.4	889.4	901.6	914.8
10°	793.2	807.5	827.9	845.2	864.1	878.4	890.3	901.9	915.3	932.1	949.3
12.5°	787.8	804.8	830.3	850.8	875.1	889.2	905.1	930.1	944.5	967.8	992.2
15°	777.1	795.9	831.5	856.8	884.2	911.0	940.5	964.3	988.1	1001.8	1036.2
17.5°	761.0	788.7	828.2	857.7	892.5	934.7	967.8	994.8	1022.2	1044.4	1061.7
20°	748.1	778.3	823.3	858.7	900.0	945.4	983.5	1010.9	1034.6	1053.2	1063.9
22.5°	731.8	769.7	813.6	855.0	907.8	952.8	992.7	1014.3	1034.1	1043.2	1047.3
25°	706.0	751.8	801.4	851.9	911.6	959.1	995.6	1008.8	1014.6	1005.7	991.1
27.5°	678.4	729.3	787.3	846.2	909.3	955.0	981.1	979.1	969.3	940.7	917.9
30°	657.7	713.7	776.1	840.3	903.7	948.1	963.4	948.1	925.9	894.0	861.4
32.5°	636.0	694.0	764.2	832.1	893.5	932.5	935.9	909.6	875.2	838.9	798.3
35°	603.2	665.9	741.7	813.6	871.7	896.4	881.7	835.5	794.7	745.1	689.7
37.5°	566.1	635.4	711.3	786.4	839.2	845.6	809.3	760.6	703.0	644.7	579.5
40°	538.3	611.7	690.0	765.7	812.4	805.7	759.4	705.8	637.2	566.1	505.4
42.5°	513.5	586.9	666.6	740.9	778.3	759.9	705.8	640.0	566.4	499.3	443.8
45°	470.4	545.9	627.5	699.4	720.7	687.5	616.0	542.9	470.4	414.4	370.6
47.5°	428.7	503.3	584.1	647.3	654.8	610.2	532.0	456.8	394.5	348.9	318.0
50°	397.9	472.9	552.9	609.3	606.8	552.9	472.5	401.0	348.9	312.1	291.4
52.5°	370.4	441.2	518.1	569.3	556.4	497.7	420.9	357.4	314.6	285.8	267.0
55°	327.6	393.1	466.2	507.3	483.6	418.3	353.5	302.3	270.7	249.1	234.5
57.5°	285.1	346.5	409.0	434.4	408.1	348.0	293.9	256.8	233.0	217.0	207.5
60°	258.8	312.4	368.1	390.0	358.7	305.1	262.4	229.3	210.1	197.0	188.5
62.5°	232.5	280.5	333.0	345.0	316.3	271.0	233.3	205.6	189.9	178.2	170.2
65°	196.7	235.9	275.9	283.8	257.3	222.3	192.4	174.5	160.5	152.0	145.5
67.5°	161.3	192.8	221.1	227.5	204.3	180.0	158.4	142.8	133.3	126.2	120.8
70°	140.4	165.3	188.5	193.6	175.0	153.4	137.1	124.5	116.0	109.9	104.8
72.5°	118.2	139.0	158.2	161.8	146.6	130.0	116.6	106.7	99.2	95.3	90.3
75°	90.4	102.6	117.6	118.5	108.4	98.3	88.0	81.6	77.6	72.8	70.4
77.5°	63.8	73.4	81.9	83.6	77.6	70.8	65.0	59.9	56.6	54.3	52.1
80°	48.8	56.3	60.0	62.1	57.9	53.0	49.7	46.3	44.2	42.6	41.1
82.5°	34.8	39.5	43.0	44.6	42.2	39.4	36.0	34.1	32.4	31.1	30.7
85°	17.7	19.8	21.9	22.5	21.9	20.7	18.9	18.9	17.9	17.7	17.7
87.5°	6.5	7.7	8.0	9.0	8.8	9.0	9.2	9.1	9.1	9.0	8.9
90°	2.0	3.3	4.7	6.1	7.3	8.4	9.4	10.4	11.4	12.1	12.7
92.5°	11.4	11.3	11.2	11.0	11.3	11.7	12.2	12.7	13.2	13.5	13.9
95°	32.9	28.7	24.5	20.4	18.7	19.6	20.5	21.4	22.3	22.9	23.6
97.5°	61.8	50.1	38.2	26.4	21.6	23.6	25.7	27.7	29.8	30.3	30.8
100°	83.6	66.3	48.9	31.6	23.9	26.1	28.2	30.4	32.5	33.5	34.6
102.5°	127.5	123.8	120.1	116.4	105.6	87.6	69.5	51.4	33.4	34.7	36.1
105°	177.3	181.2	184.9	188.7	173.3	138.7	104.0	69.5	34.8	36.2	37.6
107.5°	224.9	228.0	231.0	234.1	214.8	173.3	131.8	90.3	48.8	47.3	45.9
110°	255.5	258.2	260.8	263.5	246.5	209.9	173.2	136.6	99.9	87.2	74.5



TEST NUMBER: P331501-930

CATALOG NUMBER: S122DIW-S485D710U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	284.5	286.8	289.1	291.5	288.1	279.1	270.0	261.0	251.9	205.7	159.4
115°	330.4	332.5	334.7	336.8	339.5	342.7	345.8	348.9	352.1	293.4	234.7
117.5°	371.8	374.2	376.6	379.0	381.3	383.5	385.7	387.8	390.0	375.9	361.7
120°	401.5	403.3	405.2	407.2	409.2	411.5	413.8	416.0	418.3	419.9	421.4
122.5°	427.1	429.1	431.1	433.1	435.4	437.8	440.3	442.8	445.3	446.2	447.1
125°	465.7	467.3	469.0	470.6	472.6	475.1	477.4	479.9	482.2	483.1	484.0
127.5°	501.1	503.0	504.8	506.6	508.4	510.2	512.0	513.8	515.6	516.9	518.2
130°	523.7	525.7	527.7	529.8	531.5	532.9	534.3	535.7	537.1	538.5	539.9
132.5°	546.3	548.0	549.7	551.4	552.9	554.3	555.7	557.2	558.6	559.7	560.9
135°	576.2	578.2	580.2	582.3	583.9	585.1	586.2	587.3	588.5	589.7	591.0
137.5°	605.6	607.1	608.5	609.8	611.2	612.5	613.8	615.1	616.4	617.7	618.9
140°	624.8	625.8	626.9	627.9	629.1	630.5	631.9	633.2	634.7	635.9	637.0
142.5°	641.2	642.1	643.0	643.9	645.1	646.8	648.4	650.0	651.6	652.6	653.6
145°	665.9	665.9	665.7	665.5	666.6	668.7	670.9	673.0	675.2	676.1	676.9
147.5°	688.1	687.6	687.1	686.6	687.5	689.6	691.7	693.8	695.9	696.7	697.3
150°	702.3	701.4	700.5	699.6	700.2	702.2	704.3	706.3	708.3	709.1	709.8
152.5°	714.5	713.5	712.5	711.5	712.0	714.0	715.8	717.8	719.7	720.5	721.2
155°	732.3	731.2	730.0	728.9	729.0	730.6	732.1	733.6	735.2	735.9	736.6
157.5°	746.5	745.5	744.5	743.6	743.6	744.7	745.8	746.8	747.9	748.8	749.7
160°	754.9	754.2	753.4	752.6	752.6	753.4	754.2	754.9	755.7	756.4	757.2
162.5°	762.2	761.5	760.7	759.9	759.9	760.5	761.2	761.9	762.5	763.4	764.3
165°	772.0	771.3	770.5	769.7	769.6	770.0	770.3	770.7	771.1	772.0	772.9
167.5°	779.3	778.6	777.8	777.1	776.9	777.2	777.6	778.0	778.3	779.2	780.1
170°	783.4	782.7	782.0	781.1	780.9	781.1	781.5	781.7	782.0	782.9	783.7
172.5°	786.2	785.5	784.6	783.9	783.7	783.9	784.2	784.4	784.6	785.5	786.4
175°	789.6	788.7	787.8	786.9	786.6	786.8	787.2	787.4	787.7	788.6	789.5
177.5°	790.4	789.6	789.0	788.2	787.9	788.0	788.1	788.2	788.3	789.0	789.8
180°	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	792.2	792.2	792.2	792.2	792.2	792.2	792.2
2.5°	821.7	825.2	825.2	825.7	829.5	829.1	828.8
5°	874.5	879.6	880.3	885.7	889.4	888.2	884.8
7.5°	924.2	933.8	941.2	945.3	950.1	953.0	951.7
10°	963.7	977.7	986.2	992.0	999.0	1004.2	1002.3
12.5°	999.5	1016.2	1027.8	1037.8	1038.7	1045.4	1040.8
15°	1055.3	1073.0	1074.8	1082.1	1087.9	1087.3	1087.6
17.5°	1073.7	1079.5	1080.6	1080.8	1080.8	1078.7	1074.1
20°	1067.2	1065.1	1059.9	1056.0	1049.0	1048.0	1042.0
22.5°	1036.0	1029.2	1016.3	1007.7	996.8	993.9	992.2
25°	974.6	959.7	939.0	919.2	913.7	903.1	906.1
27.5°	890.4	867.2	844.7	828.7	814.2	798.2	802.7
30°	831.2	805.0	773.4	749.0	733.5	718.3	715.5
32.5°	760.6	722.2	686.9	665.4	641.6	632.0	621.5
35°	638.8	601.4	566.3	536.2	518.9	505.4	493.3
37.5°	529.2	486.2	457.9	433.5	420.9	413.3	415.2
40°	461.3	423.5	402.8	384.3	372.7	367.2	368.4
42.5°	406.3	378.0	360.9	348.2	340.1	337.0	336.2
45°	343.7	327.9	313.9	306.6	302.6	299.3	297.2
47.5°	301.2	288.2	280.3	276.0	272.5	269.1	269.0
50°	275.6	267.0	261.5	257.0	254.2	251.8	254.0
52.5°	256.1	248.3	242.8	238.7	237.7	235.5	235.5
55°	227.1	221.0	217.1	213.4	211.7	210.4	208.9
57.5°	200.8	195.0	191.4	189.1	185.6	184.4	183.9
60°	182.1	177.5	173.8	170.8	169.3	166.9	166.9
62.5°	164.8	160.2	156.8	154.5	152.0	151.0	151.2
65°	139.7	136.1	132.7	130.3	129.7	127.9	128.5
67.5°	116.8	114.3	110.8	109.4	108.3	107.3	106.6
70°	101.4	99.0	97.1	95.3	94.4	94.4	94.4
72.5°	88.5	85.5	84.5	82.2	82.7	81.7	80.7
75°	68.5	66.7	65.8	64.8	63.3	63.3	63.3
77.5°	50.4	49.9	48.8	47.8	47.5	47.1	47.3
80°	39.0	38.6	38.1	38.1	37.4	37.2	36.5
82.5°	29.9	29.2	28.8	28.5	28.5	28.4	28.3
85°	17.0	16.5	16.5	16.7	16.1	16.1	16.5
87.5°	9.2	9.4	9.2	9.3	9.5	9.4	9.4
90°	13.3	13.9	14.4	14.7	14.9	15.2	15.4
92.5°	14.3	14.6	14.8	14.9	15.1	15.2	15.4
95°	24.1	24.8	25.0	24.9	24.8	24.7	24.5
97.5°	31.3	31.8	32.1	32.3	32.4	32.6	32.8
100°	35.5	36.6	37.3	37.5	37.7	38.0	38.2
102.5°	37.4	38.7	39.5	39.9	40.3	40.6	41.0
105°	39.0	40.4	41.3	41.8	42.4	42.9	43.4
107.5°	44.5	43.0	42.6	43.1	43.6	44.1	44.6
110°	61.8	49.2	43.0	43.5	44.1	44.6	45.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	113.2	66.9	43.9	44.4	44.8	45.2	45.6
115°	175.9	117.2	83.3	74.2	65.1	55.9	46.8
117.5°	347.4	333.2	311.1	281.1	251.1	221.1	191.1
120°	422.9	424.4	416.6	399.5	382.4	365.3	348.1
122.5°	448.0	449.0	447.8	444.4	441.1	437.8	434.5
125°	484.9	485.8	486.5	486.8	487.2	487.6	488.0
127.5°	519.5	520.8	521.5	521.5	521.6	521.7	521.8
130°	541.3	542.7	543.3	543.2	543.1	542.9	542.8
132.5°	562.1	563.3	563.9	563.7	563.6	563.5	563.4
135°	592.2	593.5	594.0	593.8	593.5	593.3	593.0
137.5°	620.1	621.4	621.8	621.3	620.9	620.5	620.0
140°	638.1	639.3	639.5	638.9	638.2	637.6	637.0
142.5°	654.7	655.7	655.9	655.3	654.7	654.0	653.4
145°	677.8	678.7	678.9	678.2	677.6	676.9	676.4
147.5°	698.0	698.6	698.7	698.1	697.7	697.1	696.5
150°	710.6	711.3	711.4	710.8	710.1	709.5	708.9
152.5°	722.0	722.8	722.8	721.9	721.1	720.2	719.3
155°	737.4	738.2	738.0	737.0	736.1	735.0	734.0
157.5°	750.5	751.4	751.3	750.3	749.3	748.4	747.3
160°	758.0	758.7	758.6	757.7	756.8	756.0	755.1
162.5°	765.1	766.0	765.9	764.8	763.7	762.5	761.5
165°	773.7	774.6	774.6	773.7	772.9	772.0	771.1
167.5°	781.0	781.8	781.7	780.6	779.4	778.3	777.1
170°	784.6	785.5	785.4	784.2	783.1	782.0	780.8
172.5°	787.3	788.2	788.1	786.9	785.8	784.6	783.5
175°	790.3	791.2	791.0	789.7	788.5	787.2	785.9
177.5°	790.4	791.2	791.1	790.2	789.2	788.3	787.4
180°	788.8	788.8	788.8	788.8	788.8	788.8	788.8

(END OF REPORT)