

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: P331502-930

Luminaire Tested: **S122DIW-S485D710U930-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331502-930
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-S485D710U930-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 710 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3755.4 lumens
Efficiency: N/A
Efficacy: 99.9 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

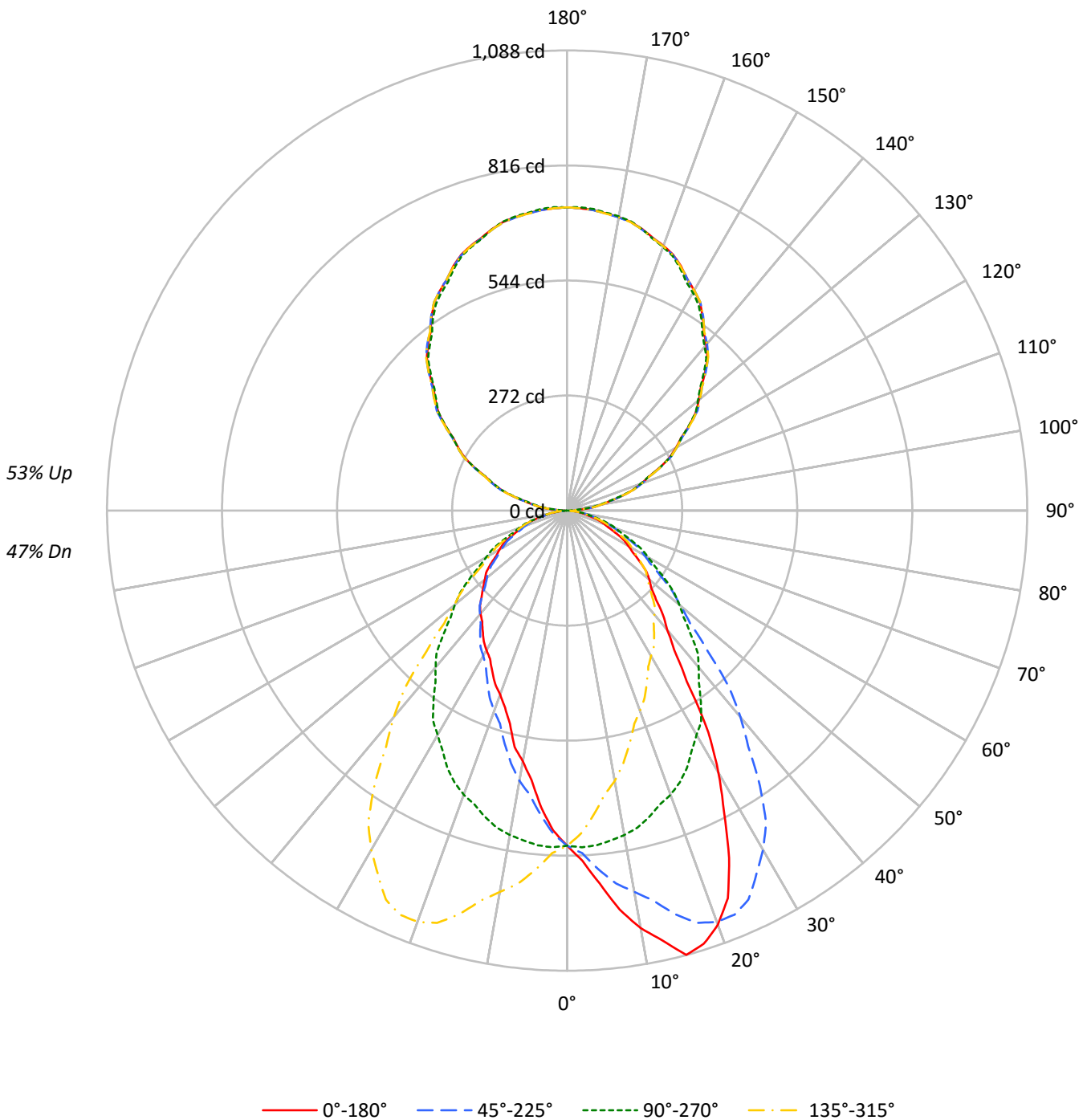
Input Watts (W): 37.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	0
RCR																		
0	106	106	106	106	98	98	98	98	81	81	81	67	67	67	53	53	53	47
1	97	93	90	86	89	86	83	80	72	70	68	59	58	56	48	47	46	40
2	89	82	76	71	82	76	71	66	64	60	57	53	50	48	42	41	39	34
3	82	72	65	60	75	67	61	56	57	52	48	47	44	41	38	36	34	30
4	75	64	57	51	69	60	53	48	50	45	41	42	38	35	34	32	29	26
5	69	58	50	44	63	53	46	41	45	40	36	38	34	31	31	28	26	23
6	64	52	44	38	58	48	41	36	41	36	32	34	30	27	28	25	23	20
7	59	47	39	34	54	44	37	32	37	32	28	31	27	24	26	23	21	18
8	55	43	35	30	50	40	33	28	34	29	25	29	25	22	24	21	19	16
9	51	39	32	27	47	36	30	25	31	26	23	27	23	20	22	19	17	15
10	48	36	29	24	44	33	27	23	29	24	20	25	21	18	21	18	16	14

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	2.0
10°-20°	219.3	5.8
20°-30°	318.3	8.5
30°-40°	335.9	8.9
40°-50°	297.4	7.9
50°-60°	237.4	6.3
60°-70°	161.3	4.3
70°-80°	82.7	2.2
80°-90°	22.8	0.6
90°-100°	45.4	1.2
100°-110°	141.1	3.8
110°-120°	241.2	6.4
120°-130°	317.1	8.4
130°-140°	356.0	9.5
140°-150°	349.0	9.3
150°-160°	292.8	7.8
160°-170°	194.2	5.2
170°-180°	67.9	1.8
0°-30°	613.1	16.3
0°-40°	949.1	25.3
0°-60°	1483.9	39.5
0°-90°	1750.7	46.6
90°-120°	427.7	11.4
90°-150°	1449.8	38.6
90°-180°	2005.0	53.4
0°-180°	3755.4	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	19
90°	20	1	20	1	20	10
95°	38	32	38	32	38	42
105°	134	130	134	130	134	141
115°	242	242	242	242	242	239
125°	353	352	353	352	353	315
135°	461	456	461	456	461	355
145°	559	553	559	553	559	349
155°	637	632	637	632	637	293
165°	688	688	688	688	688	194
175°	713	716	713	716	713	68
180°	717	717	717	717	717	



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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°	10.4	10.4	10.6	10.4	10.4	10.6	10.7	10.4	10.8	11.1	10.7
90°	20.5	20.5	20.3	20.1	20.1	20.1	20.4	20.6	20.9	21.2	18.2
92.5°	19.6	19.6	19.6	19.5	19.5	19.5	19.4	19.3	19.3	19.2	18.5
95°	37.5	37.7	38.1	38.3	38.6	38.7	38.7	38.7	38.7	38.7	38.5
97.5°	65.0	65.0	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	64.6
100°	82.9	83.0	83.2	83.3	83.4	83.5	83.5	83.5	83.5	83.5	83.1
102.5°	103.2	103.4	103.5	103.6	103.8	103.8	103.6	103.5	103.5	103.3	102.8
105°	134.3	134.3	134.3	134.3	134.3	134.2	133.9	133.6	133.4	133.1	132.8
107.5°	163.6	164.2	164.9	165.4	166.1	166.3	166.2	166.1	166.0	165.9	165.9
110°	186.4	186.7	187.1	187.5	187.9	188.2	188.2	188.2	188.2	188.2	188.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	208.1	208.4	208.7	209.0	209.3	209.6	209.9	210.3	210.6	210.9	211.0
115°	242.0	242.4	242.8	243.2	243.6	243.9	244.0	244.2	244.3	244.4	244.7
117.5°	274.3	274.7	275.1	275.5	275.9	276.3	276.6	277.0	277.3	277.6	278.3
120°	297.0	297.4	297.8	298.2	298.6	298.9	298.9	298.9	298.9	298.9	299.9
122.5°	319.4	319.6	319.9	320.2	320.5	320.8	321.1	321.5	321.8	322.1	322.9
125°	353.4	353.4	353.6	353.8	353.8	354.1	354.5	354.9	355.3	355.7	356.1
127.5°	384.3	384.7	385.1	385.6	386.0	386.5	386.9	387.4	387.9	388.4	388.9
130°	406.6	407.1	407.6	408.1	408.7	409.1	409.4	409.7	409.9	410.2	410.4
132.5°	427.9	428.3	428.7	429.2	429.6	430.1	430.6	431.3	431.9	432.4	432.4
135°	461.0	461.4	461.8	462.2	462.6	462.9	463.0	463.2	463.3	463.4	463.2
137.5°	491.0	491.5	492.1	492.6	493.2	493.5	493.6	493.7	493.8	493.9	493.6
140°	511.8	512.3	512.9	513.5	514.0	514.2	514.2	514.2	514.2	514.2	513.6
142.5°	530.7	531.2	531.7	532.3	532.9	533.0	533.0	532.9	532.7	532.6	532.1
145°	559.1	559.5	560.1	560.6	561.2	561.3	561.3	561.1	560.9	560.8	560.0
147.5°	584.3	584.8	585.3	585.9	586.4	586.4	586.1	585.9	585.5	585.3	584.7
150°	600.8	601.2	601.5	601.9	602.3	602.3	601.9	601.5	601.2	600.8	600.2
152.5°	616.3	616.8	617.3	617.8	618.3	618.3	617.8	617.3	616.8	616.3	615.6
155°	637.1	637.5	637.9	638.3	638.7	638.5	637.9	637.2	636.5	635.9	635.4
157.5°	654.9	655.6	656.2	656.9	657.5	657.4	656.5	655.6	654.7	653.8	653.5
160°	666.1	666.7	667.2	667.7	668.2	668.1	667.3	666.5	665.7	664.9	664.7
162.5°	675.8	676.5	677.1	677.7	678.3	678.2	677.4	676.4	675.5	674.6	674.4
165°	688.5	689.2	689.8	690.5	691.2	691.0	690.1	689.2	688.2	687.3	687.3
167.5°	698.9	699.6	700.3	701.0	701.6	701.6	700.6	699.7	698.7	697.8	697.8
170°	704.2	705.0	705.8	706.6	707.4	707.4	706.5	705.5	704.6	703.6	703.8
172.5°	708.6	709.4	710.2	711.0	711.8	711.8	710.8	709.9	708.9	707.9	708.1
175°	713.3	714.1	714.9	715.7	716.5	716.5	715.5	714.5	713.6	712.7	713.0
177.5°	715.4	716.1	716.7	717.4	718.0	718.0	717.4	716.7	716.1	715.4	715.7
180°	716.9	716.9	716.9	716.9	716.9	716.9	716.9	716.9	716.9	716.9	716.9



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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°	10.4	9.8	9.2	9.2	8.2	7.8	6.5	5.5	5.5	5.6	5.5
90°	15.2	12.3	9.4	7.1	5.5	3.8	2.2	0.6	2.2	3.8	5.5
92.5°	17.9	17.1	16.5	15.5	14.3	13.1	12.0	10.8	12.0	13.1	14.3
95°	38.2	37.9	37.7	36.9	35.5	34.2	32.8	31.5	32.8	34.2	35.5
97.5°	64.1	63.6	63.0	62.2	61.0	59.8	58.6	57.5	58.6	59.8	61.0
100°	82.7	82.3	81.9	81.1	80.1	79.0	77.9	76.8	77.9	79.0	80.1
102.5°	102.3	101.8	101.3	100.6	99.7	98.9	98.0	97.2	98.0	98.9	99.7
105°	132.6	132.3	132.0	131.7	131.3	130.9	130.4	130.0	130.4	130.9	131.3
107.5°	165.9	165.9	165.9	165.6	165.0	164.4	163.8	163.2	163.8	164.4	165.0
110°	188.2	188.2	188.2	187.8	186.9	186.1	185.3	184.5	185.3	186.1	186.9



TEST NUMBER: P331502-930

CATALOG NUMBER: S122DIW-S485D710U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	211.1	211.2	211.3	211.0	210.2	209.4	208.6	207.7	208.6	209.4	210.2
115°	244.9	245.2	245.5	245.2	244.4	243.6	242.8	242.0	242.8	243.6	244.4
117.5°	279.1	279.8	280.5	280.4	279.3	278.3	277.2	276.1	277.2	278.3	279.3
120°	301.0	302.1	303.1	303.1	302.1	301.0	299.9	298.9	299.9	301.0	302.1
122.5°	323.6	324.3	325.1	324.8	323.5	322.3	321.0	319.7	321.0	322.3	323.5
125°	356.5	356.9	357.3	356.9	355.7	354.5	353.4	352.1	353.4	354.5	355.7
127.5°	389.4	389.9	390.4	389.8	388.2	386.8	385.2	383.7	385.2	386.8	388.2
130°	410.7	411.0	411.2	410.5	408.8	407.0	405.3	403.5	405.3	407.0	408.8
132.5°	432.4	432.3	432.3	431.5	430.1	428.7	427.2	425.8	427.2	428.7	430.1
135°	462.9	462.6	462.4	461.5	460.0	458.5	457.1	455.6	457.1	458.5	460.0
137.5°	493.3	492.8	492.5	491.7	490.6	489.3	488.1	486.9	488.1	489.3	490.6
140°	512.9	512.3	511.5	510.6	509.4	508.2	507.0	505.8	507.0	508.2	509.4
142.5°	531.7	531.2	530.8	529.9	528.8	527.6	526.4	525.1	526.4	527.6	528.8
145°	559.2	558.4	557.6	556.8	555.8	554.8	553.9	552.9	553.9	554.8	555.8
147.5°	584.2	583.7	583.1	582.3	581.1	580.0	578.9	577.8	578.9	580.0	581.1
150°	599.7	599.2	598.6	597.9	597.1	596.3	595.5	594.7	595.5	596.3	597.1
152.5°	615.0	614.3	613.7	612.9	612.1	611.3	610.5	609.7	610.5	611.3	612.1
155°	635.0	634.6	634.2	633.8	633.4	633.0	632.6	632.2	632.6	633.0	633.4
157.5°	653.3	653.1	652.8	652.6	652.2	652.0	651.8	651.4	651.8	652.0	652.2
160°	664.6	664.5	664.4	664.1	663.9	663.6	663.3	663.1	663.3	663.6	663.9
162.5°	674.3	674.2	674.0	673.9	673.8	673.8	673.8	673.7	673.8	673.8	673.8
165°	687.3	687.3	687.3	687.4	687.5	687.6	687.7	687.9	687.7	687.6	687.5
167.5°	697.8	697.9	697.9	698.1	698.5	699.0	699.4	699.8	699.4	699.0	698.5
170°	703.8	704.0	704.2	704.4	704.8	705.2	705.6	706.0	705.6	705.2	704.8
172.5°	708.3	708.3	708.5	708.7	709.1	709.6	710.0	710.4	710.0	709.6	709.1
175°	713.2	713.5	713.8	714.1	714.5	714.9	715.3	715.7	715.3	714.9	714.5
177.5°	715.9	716.1	716.3	716.6	716.9	717.2	717.5	717.9	717.5	717.2	716.9
180°	716.9	716.9	716.9	716.9	716.9	716.9	716.9	716.9	716.9	716.9	716.9



TEST NUMBER: P331502-930

CATALOG NUMBER: S122DIW-S485D710U930-4F0-1E-UDD-A1

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°	5.5	5.8	6.1	6.7	7.1	7.4	7.1	7.0	7.0	6.4	6.4
90°	7.1	9.4	12.3	15.2	18.2	21.2	20.9	20.6	20.4	20.1	20.1
92.5°	15.5	16.5	17.1	17.9	18.5	19.2	19.3	19.3	19.4	19.5	19.5
95°	36.9	37.7	37.9	38.2	38.5	38.7	38.7	38.7	38.7	38.7	38.6
97.5°	62.2	63.0	63.6	64.1	64.6	65.1	65.1	65.1	65.1	65.1	65.1
100°	81.1	81.9	82.3	82.7	83.1	83.5	83.5	83.5	83.5	83.5	83.4
102.5°	100.6	101.3	101.8	102.3	102.8	103.3	103.5	103.5	103.6	103.8	103.8
105°	131.7	132.0	132.3	132.6	132.8	133.1	133.4	133.6	133.9	134.2	134.3
107.5°	165.6	165.9	165.9	165.9	165.9	165.9	166.0	166.1	166.2	166.3	166.1
110°	187.8	188.2	188.2	188.2	188.2	188.2	188.2	188.2	188.2	188.2	187.9



TEST NUMBER: P331502-930

CATALOG NUMBER: S122DIW-S485D710U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	211.0	211.3	211.2	211.1	211.0	210.9	210.6	210.3	209.9	209.6	209.3
115°	245.2	245.5	245.2	244.9	244.7	244.4	244.3	244.2	244.0	243.9	243.6
117.5°	280.4	280.5	279.8	279.1	278.3	277.6	277.3	277.0	276.6	276.3	275.9
120°	303.1	303.1	302.1	301.0	299.9	298.9	298.9	298.9	298.9	298.9	298.6
122.5°	324.8	325.1	324.3	323.6	322.9	322.1	321.8	321.5	321.1	320.8	320.5
125°	356.9	357.3	356.9	356.5	356.1	355.7	355.3	354.9	354.5	354.1	353.8
127.5°	389.8	390.4	389.9	389.4	388.9	388.4	387.9	387.4	386.9	386.5	386.0
130°	410.5	411.2	411.0	410.7	410.4	410.2	409.9	409.7	409.4	409.1	408.7
132.5°	431.5	432.3	432.3	432.4	432.4	432.4	431.9	431.3	430.6	430.1	429.6
135°	461.5	462.4	462.6	462.9	463.2	463.4	463.3	463.2	463.0	462.9	462.6
137.5°	491.7	492.5	492.8	493.3	493.6	493.9	493.8	493.7	493.6	493.5	493.2
140°	510.6	511.5	512.3	512.9	513.6	514.2	514.2	514.2	514.2	514.2	514.0
142.5°	529.9	530.8	531.2	531.7	532.1	532.6	532.7	532.9	533.0	533.0	532.9
145°	556.8	557.6	558.4	559.2	560.0	560.8	560.9	561.1	561.3	561.3	561.2
147.5°	582.3	583.1	583.7	584.2	584.7	585.3	585.5	585.9	586.1	586.4	586.4
150°	597.9	598.6	599.2	599.7	600.2	600.8	601.2	601.5	601.9	602.3	602.3
152.5°	612.9	613.7	614.3	615.0	615.6	616.3	616.8	617.3	617.8	618.3	618.3
155°	633.8	634.2	634.6	635.0	635.4	635.9	636.5	637.2	637.9	638.5	638.7
157.5°	652.6	652.8	653.1	653.3	653.5	653.8	654.7	655.6	656.5	657.4	657.5
160°	664.1	664.4	664.5	664.6	664.7	664.9	665.7	666.5	667.3	668.1	668.2
162.5°	673.9	674.0	674.2	674.3	674.4	674.6	675.5	676.4	677.4	678.2	678.3
165°	687.4	687.3	687.3	687.3	687.3	687.3	688.2	689.2	690.1	691.0	691.2
167.5°	698.1	697.9	697.9	697.8	697.8	697.8	698.7	699.7	700.6	701.6	701.6
170°	704.4	704.2	704.0	703.8	703.8	703.6	704.6	705.5	706.5	707.4	707.4
172.5°	708.7	708.5	708.3	708.3	708.1	707.9	708.9	709.9	710.8	711.8	711.8
175°	714.1	713.8	713.5	713.2	713.0	712.7	713.6	714.5	715.5	716.5	716.5
177.5°	716.6	716.3	716.1	715.9	715.7	715.4	716.1	716.7	717.4	718.0	718.0
180°	716.9	716.9	716.9	716.9	716.9	716.9	716.9	716.9	716.9	716.9	716.9



TEST NUMBER: P331502-930

CATALOG NUMBER: S122DIW-S485D710U930-4F0-1E-UDD-A1

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°	6.4	6.3	6.3	6.0	6.3	6.3	6.4	6.4	6.4	7.0	7.0
90°	20.1	20.3	20.5	20.5	20.5	20.3	20.1	20.1	20.1	20.4	20.6
92.5°	19.5	19.6	19.6	19.6	19.6	19.6	19.5	19.5	19.5	19.4	19.3
95°	38.3	38.1	37.7	37.5	37.7	38.1	38.3	38.6	38.7	38.7	38.7
97.5°	65.1	65.1	65.0	65.0	65.0	65.1	65.1	65.1	65.1	65.1	65.1
100°	83.3	83.2	83.0	82.9	83.0	83.2	83.3	83.4	83.5	83.5	83.5
102.5°	103.6	103.5	103.4	103.2	103.4	103.5	103.6	103.8	103.8	103.6	103.5
105°	134.3	134.3	134.3	134.3	134.3	134.3	134.3	134.3	134.2	133.9	133.6
107.5°	165.4	164.9	164.2	163.6	164.2	164.9	165.4	166.1	166.3	166.2	166.1
110°	187.5	187.1	186.7	186.4	186.7	187.1	187.5	187.9	188.2	188.2	188.2



TEST NUMBER: P331502-930

CATALOG NUMBER: S122DIW-S485D710U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	209.0	208.7	208.4	208.1	208.4	208.7	209.0	209.3	209.6	209.9	210.3
115°	243.2	242.8	242.4	242.0	242.4	242.8	243.2	243.6	243.9	244.0	244.2
117.5°	275.5	275.1	274.7	274.3	274.7	275.1	275.5	275.9	276.3	276.6	277.0
120°	298.2	297.8	297.4	297.0	297.4	297.8	298.2	298.6	298.9	298.9	298.9
122.5°	320.2	319.9	319.6	319.4	319.6	319.9	320.2	320.5	320.8	321.1	321.5
125°	353.8	353.6	353.4	353.4	353.4	353.6	353.8	353.8	354.1	354.5	354.9
127.5°	385.6	385.1	384.7	384.3	384.7	385.1	385.6	386.0	386.5	386.9	387.4
130°	408.1	407.6	407.1	406.6	407.1	407.6	408.1	408.7	409.1	409.4	409.7
132.5°	429.2	428.7	428.3	427.9	428.3	428.7	429.2	429.6	430.1	430.6	431.3
135°	462.2	461.8	461.4	461.0	461.4	461.8	462.2	462.6	462.9	463.0	463.2
137.5°	492.6	492.1	491.5	491.0	491.5	492.1	492.6	493.2	493.5	493.6	493.7
140°	513.5	512.9	512.3	511.8	512.3	512.9	513.5	514.0	514.2	514.2	514.2
142.5°	532.3	531.7	531.2	530.7	531.2	531.7	532.3	532.9	533.0	533.0	532.9
145°	560.6	560.1	559.5	559.1	559.5	560.1	560.6	561.2	561.3	561.3	561.1
147.5°	585.9	585.3	584.8	584.3	584.8	585.3	585.9	586.4	586.4	586.1	585.9
150°	601.9	601.5	601.2	600.8	601.2	601.5	601.9	602.3	602.3	601.9	601.5
152.5°	617.8	617.3	616.8	616.3	616.8	617.3	617.8	618.3	618.3	617.8	617.3
155°	638.3	637.9	637.5	637.1	637.5	637.9	638.3	638.7	638.5	637.9	637.2
157.5°	656.9	656.2	655.6	654.9	655.6	656.2	656.9	657.5	657.4	656.5	655.6
160°	667.7	667.2	666.7	666.1	666.7	667.2	667.7	668.2	668.1	667.3	666.5
162.5°	677.7	677.1	676.5	675.8	676.5	677.1	677.7	678.3	678.2	677.4	676.4
165°	690.5	689.8	689.2	688.5	689.2	689.8	690.5	691.2	691.0	690.1	689.2
167.5°	701.0	700.3	699.6	698.9	699.6	700.3	701.0	701.6	701.6	700.6	699.7
170°	706.6	705.8	705.0	704.2	705.0	705.8	706.6	707.4	707.4	706.5	705.5
172.5°	711.0	710.2	709.4	708.6	709.4	710.2	711.0	711.8	711.8	710.8	709.9
175°	715.7	714.9	714.1	713.3	714.1	714.9	715.7	716.5	716.5	715.5	714.5
177.5°	717.4	716.7	716.1	715.4	716.1	716.7	717.4	718.0	718.0	717.4	716.7
180°	716.9	716.9	716.9	716.9	716.9	716.9	716.9	716.9	716.9	716.9	716.9



TEST NUMBER: P331502-930

CATALOG NUMBER: S122DIW-S485D710U930-4F0-1E-UDD-A1

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°	7.1	7.4	7.1	6.7	6.1	5.8	5.5	5.5	5.6	5.5	5.5
90°	20.9	21.2	18.2	15.2	12.3	9.4	7.1	5.5	3.8	2.2	0.6
92.5°	19.3	19.2	18.5	17.9	17.1	16.5	15.5	14.3	13.1	12.0	10.8
95°	38.7	38.7	38.5	38.2	37.9	37.7	36.9	35.5	34.2	32.8	31.5
97.5°	65.1	65.1	64.6	64.1	63.6	63.0	62.2	61.0	59.8	58.6	57.5
100°	83.5	83.5	83.1	82.7	82.3	81.9	81.1	80.1	79.0	77.9	76.8
102.5°	103.5	103.3	102.8	102.3	101.8	101.3	100.6	99.7	98.9	98.0	97.2
105°	133.4	133.1	132.8	132.6	132.3	132.0	131.7	131.3	130.9	130.4	130.0
107.5°	166.0	165.9	165.9	165.9	165.9	165.9	165.6	165.0	164.4	163.8	163.2
110°	188.2	188.2	188.2	188.2	188.2	188.2	187.8	186.9	186.1	185.3	184.5



TEST NUMBER: P331502-930

CATALOG NUMBER: S122DIW-S485D710U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	210.6	210.9	211.0	211.1	211.2	211.3	211.0	210.2	209.4	208.6	207.7
115°	244.3	244.4	244.7	244.9	245.2	245.5	245.2	244.4	243.6	242.8	242.0
117.5°	277.3	277.6	278.3	279.1	279.8	280.5	280.4	279.3	278.3	277.2	276.1
120°	298.9	298.9	299.9	301.0	302.1	303.1	303.1	302.1	301.0	299.9	298.9
122.5°	321.8	322.1	322.9	323.6	324.3	325.1	324.8	323.5	322.3	321.0	319.7
125°	355.3	355.7	356.1	356.5	356.9	357.3	356.9	355.7	354.5	353.4	352.1
127.5°	387.9	388.4	388.9	389.4	389.9	390.4	389.8	388.2	386.8	385.2	383.7
130°	409.9	410.2	410.4	410.7	411.0	411.2	410.5	408.8	407.0	405.3	403.5
132.5°	431.9	432.4	432.4	432.4	432.3	432.3	431.5	430.1	428.7	427.2	425.8
135°	463.3	463.4	463.2	462.9	462.6	462.4	461.5	460.0	458.5	457.1	455.6
137.5°	493.8	493.9	493.6	493.3	492.8	492.5	491.7	490.6	489.3	488.1	486.9
140°	514.2	514.2	513.6	512.9	512.3	511.5	510.6	509.4	508.2	507.0	505.8
142.5°	532.7	532.6	532.1	531.7	531.2	530.8	529.9	528.8	527.6	526.4	525.1
145°	560.9	560.8	560.0	559.2	558.4	557.6	556.8	555.8	554.8	553.9	552.9
147.5°	585.5	585.3	584.7	584.2	583.7	583.1	582.3	581.1	580.0	578.9	577.8
150°	601.2	600.8	600.2	599.7	599.2	598.6	597.9	597.1	596.3	595.5	594.7
152.5°	616.8	616.3	615.6	615.0	614.3	613.7	612.9	612.1	611.3	610.5	609.7
155°	636.5	635.9	635.4	635.0	634.6	634.2	633.8	633.4	633.0	632.6	632.2
157.5°	654.7	653.8	653.5	653.3	653.1	652.8	652.6	652.2	652.0	651.8	651.4
160°	665.7	664.9	664.7	664.6	664.5	664.4	664.1	663.9	663.6	663.3	663.1
162.5°	675.5	674.6	674.4	674.3	674.2	674.0	673.9	673.8	673.8	673.8	673.7
165°	688.2	687.3	687.3	687.3	687.3	687.3	687.3	687.4	687.5	687.6	687.9
167.5°	698.7	697.8	697.8	697.8	697.9	697.9	698.1	698.5	699.0	699.4	699.8
170°	704.6	703.6	703.8	703.8	704.0	704.2	704.4	704.8	705.2	705.6	706.0
172.5°	708.9	707.9	708.1	708.3	708.3	708.5	708.7	709.1	709.6	710.0	710.4
175°	713.6	712.7	713.0	713.2	713.5	713.8	714.1	714.5	714.9	715.3	715.7
177.5°	716.1	715.4	715.7	715.9	716.1	716.3	716.6	716.9	717.2	717.5	717.9
180°	716.9	716.9	716.9	716.9	716.9	716.9	716.9	716.9	716.9	716.9	716.9



TEST NUMBER: P331502-930

CATALOG NUMBER: S122DIW-S485D710U930-4F0-1E-UDD-A1

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	7.8	8.2	9.2	9.2	9.8	10.4	10.7	11.1	10.8	10.4
90°	2.2	3.8	5.5	7.1	9.4	12.3	15.2	18.2	21.2	20.9	20.6
92.5°	12.0	13.1	14.3	15.5	16.5	17.1	17.9	18.5	19.2	19.3	19.3
95°	32.8	34.2	35.5	36.9	37.7	37.9	38.2	38.5	38.7	38.7	38.7
97.5°	58.6	59.8	61.0	62.2	63.0	63.6	64.1	64.6	65.1	65.1	65.1
100°	77.9	79.0	80.1	81.1	81.9	82.3	82.7	83.1	83.5	83.5	83.5
102.5°	98.0	98.9	99.7	100.6	101.3	101.8	102.3	102.8	103.3	103.5	103.5
105°	130.4	130.9	131.3	131.7	132.0	132.3	132.6	132.8	133.1	133.4	133.6
107.5°	163.8	164.4	165.0	165.6	165.9	165.9	165.9	165.9	165.9	166.0	166.1
110°	185.3	186.1	186.9	187.8	188.2	188.2	188.2	188.2	188.2	188.2	188.2



TEST NUMBER: P331502-930

CATALOG NUMBER: S122DIW-S485D710U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	208.6	209.4	210.2	211.0	211.3	211.2	211.1	211.0	210.9	210.6	210.3
115°	242.8	243.6	244.4	245.2	245.5	245.2	244.9	244.7	244.4	244.3	244.2
117.5°	277.2	278.3	279.3	280.4	280.5	279.8	279.1	278.3	277.6	277.3	277.0
120°	299.9	301.0	302.1	303.1	303.1	302.1	301.0	299.9	298.9	298.9	298.9
122.5°	321.0	322.3	323.5	324.8	325.1	324.3	323.6	322.9	322.1	321.8	321.5
125°	353.4	354.5	355.7	356.9	357.3	356.9	356.5	356.1	355.7	355.3	354.9
127.5°	385.2	386.8	388.2	389.8	390.4	389.9	389.4	388.9	388.4	387.9	387.4
130°	405.3	407.0	408.8	410.5	411.2	411.0	410.7	410.4	410.2	409.9	409.7
132.5°	427.2	428.7	430.1	431.5	432.3	432.3	432.4	432.4	432.4	431.9	431.3
135°	457.1	458.5	460.0	461.5	462.4	462.6	462.9	463.2	463.4	463.3	463.2
137.5°	488.1	489.3	490.6	491.7	492.5	492.8	493.3	493.6	493.9	493.8	493.7
140°	507.0	508.2	509.4	510.6	511.5	512.3	512.9	513.6	514.2	514.2	514.2
142.5°	526.4	527.6	528.8	529.9	530.8	531.2	531.7	532.1	532.6	532.7	532.9
145°	553.9	554.8	555.8	556.8	557.6	558.4	559.2	560.0	560.8	560.9	561.1
147.5°	578.9	580.0	581.1	582.3	583.1	583.7	584.2	584.7	585.3	585.5	585.9
150°	595.5	596.3	597.1	597.9	598.6	599.2	599.7	600.2	600.8	601.2	601.5
152.5°	610.5	611.3	612.1	612.9	613.7	614.3	615.0	615.6	616.3	616.8	617.3
155°	632.6	633.0	633.4	633.8	634.2	634.6	635.0	635.4	635.9	636.5	637.2
157.5°	651.8	652.0	652.2	652.6	652.8	653.1	653.3	653.5	653.8	654.7	655.6
160°	663.3	663.6	663.9	664.1	664.4	664.5	664.6	664.7	664.9	665.7	666.5
162.5°	673.8	673.8	673.8	673.9	674.0	674.2	674.3	674.4	674.6	675.5	676.4
165°	687.7	687.6	687.5	687.4	687.3	687.3	687.3	687.3	687.3	688.2	689.2
167.5°	699.4	699.0	698.5	698.1	697.9	697.9	697.8	697.8	697.8	698.7	699.7
170°	705.6	705.2	704.8	704.4	704.2	704.0	703.8	703.8	703.6	704.6	705.5
172.5°	710.0	709.6	709.1	708.7	708.5	708.3	708.3	708.1	707.9	708.9	709.9
175°	715.3	714.9	714.5	714.1	713.8	713.5	713.2	713.0	712.7	713.6	714.5
177.5°	717.5	717.2	716.9	716.6	716.3	716.1	715.9	715.7	715.4	716.1	716.7
180°	716.9	716.9	716.9	716.9	716.9	716.9	716.9	716.9	716.9	716.9	716.9



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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°	10.7	10.6	10.4	10.4	10.6	10.4	10.4
90°	20.4	20.1	20.1	20.1	20.3	20.5	20.5
92.5°	19.4	19.5	19.5	19.5	19.6	19.6	19.6
95°	38.7	38.7	38.6	38.3	38.1	37.7	37.5
97.5°	65.1	65.1	65.1	65.1	65.1	65.0	65.0
100°	83.5	83.5	83.4	83.3	83.2	83.0	82.9
102.5°	103.6	103.8	103.8	103.6	103.5	103.4	103.2
105°	133.9	134.2	134.3	134.3	134.3	134.3	134.3
107.5°	166.2	166.3	166.1	165.4	164.9	164.2	163.6
110°	188.2	188.2	187.9	187.5	187.1	186.7	186.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	209.9	209.6	209.3	209.0	208.7	208.4	208.1
115°	244.0	243.9	243.6	243.2	242.8	242.4	242.0
117.5°	276.6	276.3	275.9	275.5	275.1	274.7	274.3
120°	298.9	298.9	298.6	298.2	297.8	297.4	297.0
122.5°	321.1	320.8	320.5	320.2	319.9	319.6	319.4
125°	354.5	354.1	353.8	353.8	353.6	353.4	353.4
127.5°	386.9	386.5	386.0	385.6	385.1	384.7	384.3
130°	409.4	409.1	408.7	408.1	407.6	407.1	406.6
132.5°	430.6	430.1	429.6	429.2	428.7	428.3	427.9
135°	463.0	462.9	462.6	462.2	461.8	461.4	461.0
137.5°	493.6	493.5	493.2	492.6	492.1	491.5	491.0
140°	514.2	514.2	514.0	513.5	512.9	512.3	511.8
142.5°	533.0	533.0	532.9	532.3	531.7	531.2	530.7
145°	561.3	561.3	561.2	560.6	560.1	559.5	559.1
147.5°	586.1	586.4	586.4	585.9	585.3	584.8	584.3
150°	601.9	602.3	602.3	601.9	601.5	601.2	600.8
152.5°	617.8	618.3	618.3	617.8	617.3	616.8	616.3
155°	637.9	638.5	638.7	638.3	637.9	637.5	637.1
157.5°	656.5	657.4	657.5	656.9	656.2	655.6	654.9
160°	667.3	668.1	668.2	667.7	667.2	666.7	666.1
162.5°	677.4	678.2	678.3	677.7	677.1	676.5	675.8
165°	690.1	691.0	691.2	690.5	689.8	689.2	688.5
167.5°	700.6	701.6	701.6	701.0	700.3	699.6	698.9
170°	706.5	707.4	707.4	706.6	705.8	705.0	704.2
172.5°	710.8	711.8	711.8	711.0	710.2	709.4	708.6
175°	715.5	716.5	716.5	715.7	714.9	714.1	713.3
177.5°	717.4	718.0	718.0	717.4	716.7	716.1	715.4
180°	716.9	716.9	716.9	716.9	716.9	716.9	716.9

(END OF REPORT)