

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: P331508-930

Luminaire Tested: **S122DIW-S485D970U930-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331508-930
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-S485D970U930-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 485 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: 4488.0 lumens
Efficiency: N/A
Efficacy: 99.3 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

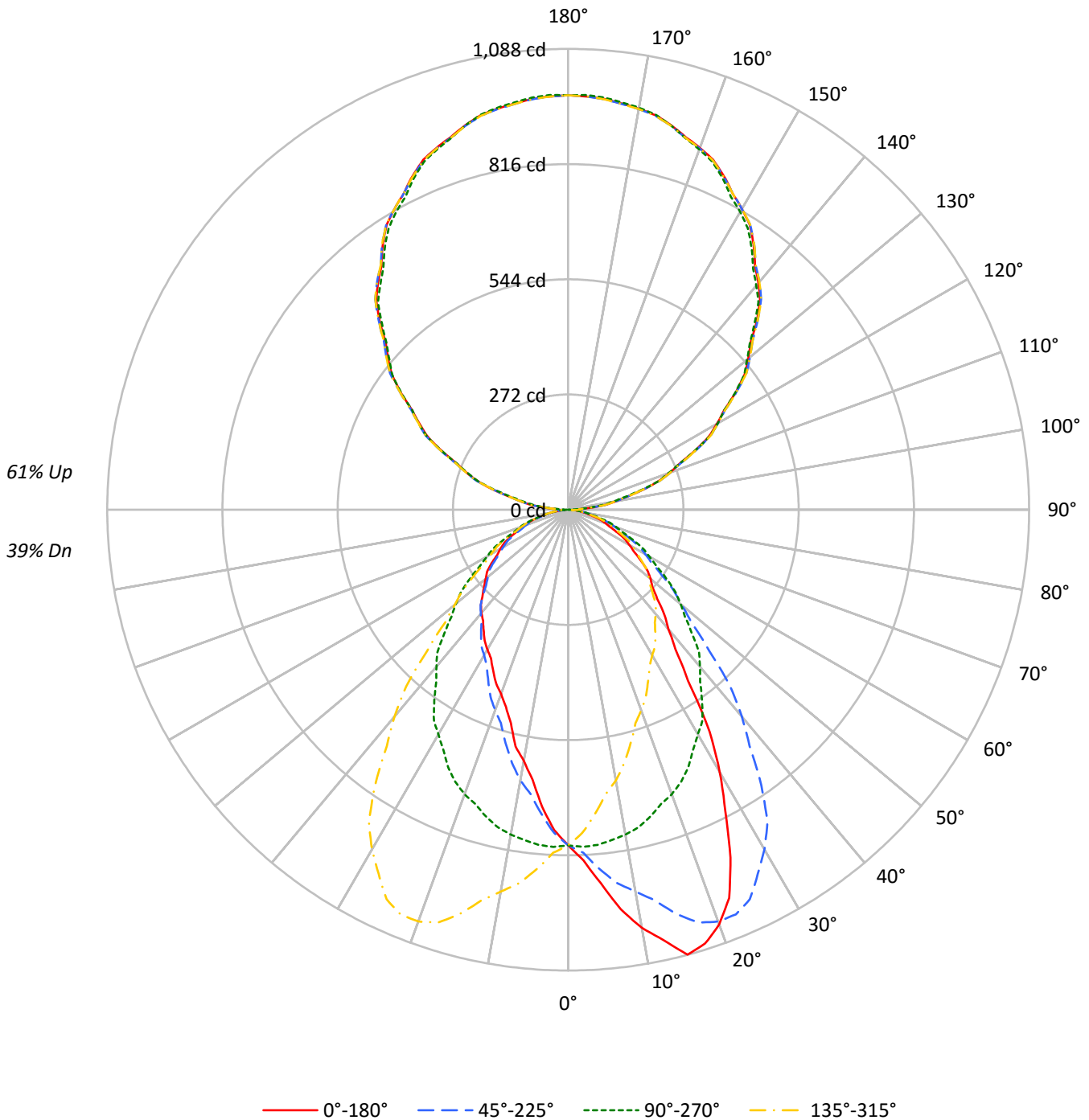
Input Watts (W): 45.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	50	30	10	0		
RCR																										
0	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39								
1	96	92	88	85	87	83	80	77	68	66	64	54	53	51	41	40	40	34								
2	87	80	75	70	79	73	68	64	60	57	54	48	46	43	37	35	34	29								
3	80	71	64	58	72	65	59	54	53	49	45	43	40	37	33	31	29	25								
4	73	63	55	50	66	58	51	46	48	43	39	38	35	32	30	27	26	22								
5	67	56	48	43	61	52	45	40	43	38	34	35	31	28	27	24	22	19								
6	62	51	43	37	56	46	40	35	39	33	30	31	28	25	24	22	20	17								
7	57	46	38	33	52	42	35	30	35	30	26	29	25	22	22	20	18	15								
8	53	41	34	29	49	38	32	27	32	27	23	26	22	20	21	18	16	14								
9	50	38	31	26	45	35	29	24	29	24	21	24	20	18	19	17	15	12								
10	46	35	28	23	42	32	26	22	27	22	19	22	19	16	18	15	13	11								

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	1.7
10°-20°	219.3	4.9
20°-30°	318.3	7.1
30°-40°	335.9	7.5
40°-50°	297.4	6.6
50°-60°	237.4	5.3
60°-70°	161.3	3.6
70°-80°	82.7	1.8
80°-90°	23.8	0.5
90°-100°	62.0	1.4
100°-110°	192.6	4.3
110°-120°	329.2	7.3
120°-130°	432.9	9.6
130°-140°	485.9	10.8
140°-150°	476.4	10.6
150°-160°	399.6	8.9
160°-170°	265.0	5.9
170°-180°	92.6	2.1
0°-30°	613.1	13.7
0°-40°	949.1	21.1
0°-60°	1483.9	33.1
0°-90°	1751.8	39.0
90°-120°	583.8	13.0
90°-150°	1979.0	44.1
90°-180°	2736.0	61.0
0°-180°	4488.0	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°	28	1	28	1	28	13
95°	51	43	51	43	51	57
105°	183	178	183	178	183	193
115°	330	330	330	330	330	326
125°	482	481	482	481	482	430
135°	629	622	629	622	629	484
145°	763	755	763	755	763	476
155°	870	863	870	863	870	400
165°	940	939	940	939	940	265
175°	974	977	974	977	974	92
180°	978	978	978	978	978	



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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°	12.0	11.9	12.1	11.8	11.8	12.1	12.1	12.0	12.3	12.6	12.1
90°	28.0	27.9	27.7	27.6	27.3	27.4	27.8	28.1	28.5	28.9	24.9
92.5°	26.7	26.7	26.7	26.7	26.6	26.6	26.5	26.4	26.3	26.3	25.3
95°	51.2	51.5	51.9	52.3	52.7	52.8	52.8	52.8	52.8	52.8	52.5
97.5°	88.7	88.7	88.8	88.8	88.9	88.9	88.9	88.9	88.9	88.9	88.1
100°	113.2	113.3	113.5	113.7	113.9	114.0	114.0	114.0	114.0	114.0	113.4
102.5°	140.9	141.0	141.2	141.5	141.6	141.6	141.5	141.4	141.2	141.0	140.3
105°	183.4	183.4	183.4	183.4	183.4	183.1	182.8	182.4	182.1	181.6	181.3
107.5°	223.3	224.1	224.9	225.8	226.7	227.0	226.9	226.7	226.6	226.4	226.4
110°	254.4	254.9	255.4	256.0	256.6	256.8	256.8	256.8	256.8	256.8	256.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	284.1	284.5	284.9	285.3	285.7	286.1	286.6	287.0	287.4	287.9	288.0
115°	330.3	330.8	331.4	332.0	332.5	332.9	333.0	333.2	333.5	333.6	333.9
117.5°	374.4	375.0	375.5	376.1	376.6	377.1	377.6	378.0	378.5	378.9	379.9
120°	405.4	406.0	406.6	407.1	407.6	408.0	408.0	408.0	408.0	408.0	409.4
122.5°	435.9	436.3	436.7	437.1	437.5	437.9	438.3	438.8	439.2	439.6	440.7
125°	482.2	482.4	482.7	482.8	483.0	483.4	483.9	484.5	485.0	485.6	486.1
127.5°	524.6	525.1	525.7	526.3	526.8	527.5	528.2	528.8	529.5	530.2	530.8
130°	554.9	555.6	556.4	557.1	557.8	558.4	558.8	559.1	559.5	559.9	560.3
132.5°	584.0	584.6	585.1	585.8	586.4	587.0	587.8	588.6	589.5	590.3	590.2
135°	629.2	629.8	630.3	630.9	631.4	631.8	632.0	632.2	632.3	632.5	632.2
137.5°	670.2	670.9	671.6	672.4	673.1	673.6	673.8	673.8	674.0	674.2	673.7
140°	698.6	699.4	700.1	700.8	701.6	701.9	701.9	701.9	701.9	701.9	701.0
142.5°	724.4	725.1	725.9	726.6	727.3	727.6	727.5	727.3	727.2	727.0	726.4
145°	763.0	763.8	764.5	765.2	766.0	766.2	766.1	765.9	765.6	765.5	764.4
147.5°	797.5	798.3	798.9	799.6	800.3	800.5	800.1	799.6	799.2	798.8	798.1
150°	820.0	820.5	821.1	821.7	822.2	822.2	821.7	821.1	820.5	820.0	819.3
152.5°	841.1	841.8	842.5	843.3	843.9	843.9	843.3	842.5	841.8	841.1	840.2
155°	869.5	870.1	870.7	871.2	871.7	871.6	870.7	869.8	868.8	867.9	867.3
157.5°	894.0	894.9	895.8	896.7	897.5	897.3	896.1	894.9	893.6	892.3	892.0
160°	909.2	910.0	910.7	911.4	912.2	911.9	910.9	909.7	908.7	907.5	907.3
162.5°	922.4	923.2	924.1	925.0	925.9	925.8	924.5	923.2	922.0	920.7	920.6
165°	939.7	940.7	941.6	942.5	943.4	943.2	941.9	940.7	939.4	938.1	938.1
167.5°	954.0	954.9	955.9	956.8	957.7	957.6	956.3	955.0	953.7	952.4	952.5
170°	961.2	962.3	963.4	964.5	965.6	965.6	964.3	963.0	961.6	960.4	960.6
172.5°	967.2	968.2	969.4	970.5	971.6	971.4	970.2	968.9	967.6	966.3	966.5
175°	973.6	974.7	975.8	976.9	978.0	977.9	976.6	975.3	974.0	972.7	973.1
177.5°	976.6	977.5	978.4	979.2	980.1	980.1	979.2	978.4	977.5	976.6	976.9
180°	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5



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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°	11.5	10.7	9.9	9.7	8.6	8.1	6.7	5.5	5.7	6.0	5.9
90°	20.8	16.8	12.7	9.6	7.4	5.2	3.0	0.8	3.0	5.2	7.4
92.5°	24.4	23.4	22.4	21.2	19.6	17.9	16.3	14.7	16.3	17.9	19.6
95°	52.1	51.8	51.4	50.3	48.4	46.6	44.8	43.0	44.8	46.6	48.4
97.5°	87.5	86.7	86.1	84.9	83.3	81.7	80.1	78.4	80.1	81.7	83.3
100°	112.8	112.3	111.8	110.7	109.3	107.8	106.3	104.8	106.3	107.8	109.3
102.5°	139.7	138.9	138.3	137.3	136.2	134.9	133.8	132.6	133.8	134.9	136.2
105°	180.9	180.6	180.2	179.8	179.2	178.6	178.1	177.6	178.1	178.6	179.2
107.5°	226.4	226.4	226.4	226.0	225.2	224.4	223.6	222.8	223.6	224.4	225.2
110°	256.8	256.8	256.8	256.2	255.2	254.0	253.0	251.8	253.0	254.0	255.2



TEST NUMBER: P331508-930

CATALOG NUMBER: S122DIW-S485D970U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	288.1	288.3	288.5	288.0	286.9	285.8	284.7	283.6	284.7	285.8	286.9
115°	334.4	334.7	335.1	334.7	333.6	332.5	331.4	330.3	331.4	332.5	333.6
117.5°	380.9	382.0	382.9	382.8	381.3	379.8	378.4	376.9	378.4	379.8	381.3
120°	410.9	412.4	413.8	413.8	412.4	410.9	409.4	408.0	409.4	410.9	412.4
122.5°	441.7	442.7	443.8	443.4	441.6	439.9	438.1	436.3	438.1	439.9	441.6
125°	486.7	487.2	487.8	487.2	485.6	483.9	482.2	480.6	482.2	483.9	485.6
127.5°	531.5	532.1	532.8	532.1	530.0	527.9	525.8	523.7	525.8	527.9	530.0
130°	560.6	561.0	561.3	560.4	558.0	555.5	553.2	550.8	553.2	555.5	558.0
132.5°	590.1	590.0	590.0	589.0	587.0	585.1	583.1	581.1	583.1	585.1	587.0
135°	631.8	631.4	631.0	629.9	627.9	625.8	623.9	621.8	623.9	625.8	627.9
137.5°	673.2	672.7	672.3	671.2	669.5	667.9	666.3	664.6	666.3	667.9	669.5
140°	700.1	699.2	698.2	696.9	695.3	693.7	692.0	690.3	692.0	693.7	695.3
142.5°	725.8	725.1	724.6	723.4	721.7	720.1	718.4	716.8	718.4	720.1	721.7
145°	763.3	762.2	761.1	759.9	758.6	757.3	756.0	754.7	756.0	757.3	758.6
147.5°	797.4	796.6	795.9	794.8	793.2	791.7	790.2	788.6	790.2	791.7	793.2
150°	818.6	817.8	817.1	816.1	815.1	813.9	812.9	811.7	812.9	813.9	815.1
152.5°	839.4	838.5	837.6	836.7	835.5	834.5	833.3	832.3	833.3	834.5	835.5
155°	866.8	866.3	865.7	865.1	864.6	864.1	863.5	862.9	863.5	864.1	864.6
157.5°	891.7	891.4	891.0	890.6	890.3	889.9	889.6	889.2	889.6	889.9	890.3
160°	907.2	907.0	906.8	906.5	906.1	905.8	905.4	905.1	905.4	905.8	906.1
162.5°	920.4	920.2	920.0	919.9	919.8	919.7	919.7	919.6	919.7	919.7	919.8
165°	938.1	938.1	938.1	938.2	938.3	938.6	938.7	938.9	938.7	938.6	938.3
167.5°	952.5	952.6	952.6	952.9	953.4	954.0	954.6	955.1	954.6	954.0	953.4
170°	960.7	960.9	961.2	961.5	962.1	962.6	963.1	963.7	963.1	962.6	962.1
172.5°	966.7	966.9	967.0	967.4	968.0	968.5	969.1	969.6	969.1	968.5	968.0
175°	973.5	973.9	974.2	974.7	975.3	975.8	976.3	976.9	976.3	975.8	975.3
177.5°	977.1	977.5	977.7	978.1	978.5	979.0	979.4	979.9	979.4	979.0	978.5
180°	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5



TEST NUMBER: P331508-930

CATALOG NUMBER: S122DIW-S485D970U930-4F0-1E-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°	6.0	6.4	7.0	7.8	8.4	9.0	8.6	8.6	8.5	7.9	7.9
90°	9.6	12.7	16.8	20.8	24.9	28.9	28.5	28.1	27.8	27.4	27.3
92.5°	21.2	22.4	23.4	24.4	25.3	26.3	26.3	26.4	26.5	26.6	26.6
95°	50.3	51.4	51.8	52.1	52.5	52.8	52.8	52.8	52.8	52.8	52.7
97.5°	84.9	86.1	86.7	87.5	88.1	88.9	88.9	88.9	88.9	88.9	88.9
100°	110.7	111.8	112.3	112.8	113.4	114.0	114.0	114.0	114.0	114.0	113.9
102.5°	137.3	138.3	138.9	139.7	140.3	141.0	141.2	141.4	141.5	141.6	141.6
105°	179.8	180.2	180.6	180.9	181.3	181.6	182.1	182.4	182.8	183.1	183.4
107.5°	226.0	226.4	226.4	226.4	226.4	226.4	226.6	226.7	226.9	227.0	226.7
110°	256.2	256.8	256.8	256.8	256.8	256.8	256.8	256.8	256.8	256.8	256.6



TEST NUMBER: P331508-930

CATALOG NUMBER: S122DIW-S485D970U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	288.0	288.5	288.3	288.1	288.0	287.9	287.4	287.0	286.6	286.1	285.7
115°	334.7	335.1	334.7	334.4	333.9	333.6	333.5	333.2	333.0	332.9	332.5
117.5°	382.8	382.9	382.0	380.9	379.9	378.9	378.5	378.0	377.6	377.1	376.6
120°	413.8	413.8	412.4	410.9	409.4	408.0	408.0	408.0	408.0	408.0	407.6
122.5°	443.4	443.8	442.7	441.7	440.7	439.6	439.2	438.8	438.3	437.9	437.5
125°	487.2	487.8	487.2	486.7	486.1	485.6	485.0	484.5	483.9	483.4	483.0
127.5°	532.1	532.8	532.1	531.5	530.8	530.2	529.5	528.8	528.2	527.5	526.8
130°	560.4	561.3	561.0	560.6	560.3	559.9	559.5	559.1	558.8	558.4	557.8
132.5°	589.0	590.0	590.0	590.1	590.2	590.3	589.5	588.6	587.8	587.0	586.4
135°	629.9	631.0	631.4	631.8	632.2	632.5	632.3	632.2	632.0	631.8	631.4
137.5°	671.2	672.3	672.7	673.2	673.7	674.2	674.0	673.8	673.8	673.6	673.1
140°	696.9	698.2	699.2	700.1	701.0	701.9	701.9	701.9	701.9	701.9	701.6
142.5°	723.4	724.6	725.1	725.8	726.4	727.0	727.2	727.3	727.5	727.6	727.3
145°	759.9	761.1	762.2	763.3	764.4	765.5	765.6	765.9	766.1	766.2	766.0
147.5°	794.8	795.9	796.6	797.4	798.1	798.8	799.2	799.6	800.1	800.5	800.3
150°	816.1	817.1	817.8	818.6	819.3	820.0	820.5	821.1	821.7	822.2	822.2
152.5°	836.7	837.6	838.5	839.4	840.2	841.1	841.8	842.5	843.3	843.9	843.9
155°	865.1	865.7	866.3	866.8	867.3	867.9	868.8	869.8	870.7	871.6	871.7
157.5°	890.6	891.0	891.4	891.7	892.0	892.3	893.6	894.9	896.1	897.3	897.5
160°	906.5	906.8	907.0	907.2	907.3	907.5	908.7	909.7	910.9	911.9	912.2
162.5°	919.9	920.0	920.2	920.4	920.6	920.7	922.0	923.2	924.5	925.8	925.9
165°	938.2	938.1	938.1	938.1	938.1	938.1	939.4	940.7	941.9	943.2	943.4
167.5°	952.9	952.6	952.6	952.5	952.5	952.4	953.7	955.0	956.3	957.6	957.7
170°	961.5	961.2	960.9	960.7	960.6	960.4	961.6	963.0	964.3	965.6	965.6
172.5°	967.4	967.0	966.9	966.7	966.5	966.3	967.6	968.9	970.2	971.4	971.6
175°	974.7	974.2	973.9	973.5	973.1	972.7	974.0	975.3	976.6	977.9	978.0
177.5°	978.1	977.7	977.5	977.1	976.9	976.6	977.5	978.4	979.2	980.1	980.1
180°	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5



TEST NUMBER: P331508-930

CATALOG NUMBER: S122DIW-S485D970U930-4F0-1E-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°	7.9	7.7	7.7	7.6	7.7	7.7	7.9	7.9	7.9	8.5	8.6
90°	27.6	27.7	27.9	28.0	27.9	27.7	27.6	27.3	27.4	27.8	28.1
92.5°	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.6	26.6	26.5	26.4
95°	52.3	51.9	51.5	51.2	51.5	51.9	52.3	52.7	52.8	52.8	52.8
97.5°	88.8	88.8	88.7	88.7	88.7	88.8	88.8	88.9	88.9	88.9	88.9
100°	113.7	113.5	113.3	113.2	113.3	113.5	113.7	113.9	114.0	114.0	114.0
102.5°	141.5	141.2	141.0	140.9	141.0	141.2	141.5	141.6	141.6	141.5	141.4
105°	183.4	183.4	183.4	183.4	183.4	183.4	183.4	183.4	183.1	182.8	182.4
107.5°	225.8	224.9	224.1	223.3	224.1	224.9	225.8	226.7	227.0	226.9	226.7
110°	256.0	255.4	254.9	254.4	254.9	255.4	256.0	256.6	256.8	256.8	256.8



TEST NUMBER: P331508-930

CATALOG NUMBER: S122DIW-S485D970U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	285.3	284.9	284.5	284.1	284.5	284.9	285.3	285.7	286.1	286.6	287.0
115°	332.0	331.4	330.8	330.3	330.8	331.4	332.0	332.5	332.9	333.0	333.2
117.5°	376.1	375.5	375.0	374.4	375.0	375.5	376.1	376.6	377.1	377.6	378.0
120°	407.1	406.6	406.0	405.4	406.0	406.6	407.1	407.6	408.0	408.0	408.0
122.5°	437.1	436.7	436.3	435.9	436.3	436.7	437.1	437.5	437.9	438.3	438.8
125°	482.8	482.7	482.4	482.2	482.4	482.7	482.8	483.0	483.4	483.9	484.5
127.5°	526.3	525.7	525.1	524.6	525.1	525.7	526.3	526.8	527.5	528.2	528.8
130°	557.1	556.4	555.6	554.9	555.6	556.4	557.1	557.8	558.4	558.8	559.1
132.5°	585.8	585.1	584.6	584.0	584.6	585.1	585.8	586.4	587.0	587.8	588.6
135°	630.9	630.3	629.8	629.2	629.8	630.3	630.9	631.4	631.8	632.0	632.2
137.5°	672.4	671.6	670.9	670.2	670.9	671.6	672.4	673.1	673.6	673.8	673.8
140°	700.8	700.1	699.4	698.6	699.4	700.1	700.8	701.6	701.9	701.9	701.9
142.5°	726.6	725.9	725.1	724.4	725.1	725.9	726.6	727.3	727.6	727.5	727.3
145°	765.2	764.5	763.8	763.0	763.8	764.5	765.2	766.0	766.2	766.1	765.9
147.5°	799.6	798.9	798.3	797.5	798.3	798.9	799.6	800.3	800.5	800.1	799.6
150°	821.7	821.1	820.5	820.0	820.5	821.1	821.7	822.2	822.2	821.7	821.1
152.5°	843.3	842.5	841.8	841.1	841.8	842.5	843.3	843.9	843.9	843.3	842.5
155°	871.2	870.7	870.1	869.5	870.1	870.7	871.2	871.7	871.6	870.7	869.8
157.5°	896.7	895.8	894.9	894.0	894.9	895.8	896.7	897.5	897.3	896.1	894.9
160°	911.4	910.7	910.0	909.2	910.0	910.7	911.4	912.2	911.9	910.9	909.7
162.5°	925.0	924.1	923.2	922.4	923.2	924.1	925.0	925.9	925.8	924.5	923.2
165°	942.5	941.6	940.7	939.7	940.7	941.6	942.5	943.4	943.2	941.9	940.7
167.5°	956.8	955.9	954.9	954.0	954.9	955.9	956.8	957.7	957.6	956.3	955.0
170°	964.5	963.4	962.3	961.2	962.3	963.4	964.5	965.6	965.6	964.3	963.0
172.5°	970.5	969.4	968.2	967.2	968.2	969.4	970.5	971.6	971.4	970.2	968.9
175°	976.9	975.8	974.7	973.6	974.7	975.8	976.9	978.0	977.9	976.6	975.3
177.5°	979.2	978.4	977.5	976.6	977.5	978.4	979.2	980.1	980.1	979.2	978.4
180°	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5



TEST NUMBER: P331508-930

CATALOG NUMBER: S122DIW-S485D970U930-4F0-1E-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°	8.6	9.0	8.4	7.8	7.0	6.4	6.0	5.9	6.0	5.7	5.5
90°	28.5	28.9	24.9	20.8	16.8	12.7	9.6	7.4	5.2	3.0	0.8
92.5°	26.3	26.3	25.3	24.4	23.4	22.4	21.2	19.6	17.9	16.3	14.7
95°	52.8	52.8	52.5	52.1	51.8	51.4	50.3	48.4	46.6	44.8	43.0
97.5°	88.9	88.9	88.1	87.5	86.7	86.1	84.9	83.3	81.7	80.1	78.4
100°	114.0	114.0	113.4	112.8	112.3	111.8	110.7	109.3	107.8	106.3	104.8
102.5°	141.2	141.0	140.3	139.7	138.9	138.3	137.3	136.2	134.9	133.8	132.6
105°	182.1	181.6	181.3	180.9	180.6	180.2	179.8	179.2	178.6	178.1	177.6
107.5°	226.6	226.4	226.4	226.4	226.4	226.4	226.0	225.2	224.4	223.6	222.8
110°	256.8	256.8	256.8	256.8	256.8	256.8	256.2	255.2	254.0	253.0	251.8



TEST NUMBER: P331508-930

CATALOG NUMBER: S122DIW-S485D970U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	287.4	287.9	288.0	288.1	288.3	288.5	288.0	286.9	285.8	284.7	283.6
115°	333.5	333.6	333.9	334.4	334.7	335.1	334.7	333.6	332.5	331.4	330.3
117.5°	378.5	378.9	379.9	380.9	382.0	382.9	382.8	381.3	379.8	378.4	376.9
120°	408.0	408.0	409.4	410.9	412.4	413.8	413.8	412.4	410.9	409.4	408.0
122.5°	439.2	439.6	440.7	441.7	442.7	443.8	443.4	441.6	439.9	438.1	436.3
125°	485.0	485.6	486.1	486.7	487.2	487.8	487.2	485.6	483.9	482.2	480.6
127.5°	529.5	530.2	530.8	531.5	532.1	532.8	532.1	530.0	527.9	525.8	523.7
130°	559.5	559.9	560.3	560.6	561.0	561.3	560.4	558.0	555.5	553.2	550.8
132.5°	589.5	590.3	590.2	590.1	590.0	590.0	589.0	587.0	585.1	583.1	581.1
135°	632.3	632.5	632.2	631.8	631.4	631.0	629.9	627.9	625.8	623.9	621.8
137.5°	674.0	674.2	673.7	673.2	672.7	672.3	671.2	669.5	667.9	666.3	664.6
140°	701.9	701.9	701.0	700.1	699.2	698.2	696.9	695.3	693.7	692.0	690.3
142.5°	727.2	727.0	726.4	725.8	725.1	724.6	723.4	721.7	720.1	718.4	716.8
145°	765.6	765.5	764.4	763.3	762.2	761.1	759.9	758.6	757.3	756.0	754.7
147.5°	799.2	798.8	798.1	797.4	796.6	795.9	794.8	793.2	791.7	790.2	788.6
150°	820.5	820.0	819.3	818.6	817.8	817.1	816.1	815.1	813.9	812.9	811.7
152.5°	841.8	841.1	840.2	839.4	838.5	837.6	836.7	835.5	834.5	833.3	832.3
155°	868.8	867.9	867.3	866.8	866.3	865.7	865.1	864.6	864.1	863.5	862.9
157.5°	893.6	892.3	892.0	891.7	891.4	891.0	890.6	890.3	889.9	889.6	889.2
160°	908.7	907.5	907.3	907.2	907.0	906.8	906.5	906.1	905.8	905.4	905.1
162.5°	922.0	920.7	920.6	920.4	920.2	920.0	919.9	919.8	919.7	919.7	919.6
165°	939.4	938.1	938.1	938.1	938.1	938.1	938.2	938.3	938.6	938.7	938.9
167.5°	953.7	952.4	952.5	952.5	952.6	952.6	952.9	953.4	954.0	954.6	955.1
170°	961.6	960.4	960.6	960.7	960.9	961.2	961.5	962.1	962.6	963.1	963.7
172.5°	967.6	966.3	966.5	966.7	966.9	967.0	967.4	968.0	968.5	969.1	969.6
175°	974.0	972.7	973.1	973.5	973.9	974.2	974.7	975.3	975.8	976.3	976.9
177.5°	977.5	976.6	976.9	977.1	977.5	977.7	978.1	978.5	979.0	979.4	979.9
180°	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5



TEST NUMBER: P331508-930

CATALOG NUMBER: S122DIW-S485D970U930-4F0-1E-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°	6.7	8.1	8.6	9.7	9.9	10.7	11.5	12.1	12.6	12.3	12.0
90°	3.0	5.2	7.4	9.6	12.7	16.8	20.8	24.9	28.9	28.5	28.1
92.5°	16.3	17.9	19.6	21.2	22.4	23.4	24.4	25.3	26.3	26.3	26.4
95°	44.8	46.6	48.4	50.3	51.4	51.8	52.1	52.5	52.8	52.8	52.8
97.5°	80.1	81.7	83.3	84.9	86.1	86.7	87.5	88.1	88.9	88.9	88.9
100°	106.3	107.8	109.3	110.7	111.8	112.3	112.8	113.4	114.0	114.0	114.0
102.5°	133.8	134.9	136.2	137.3	138.3	138.9	139.7	140.3	141.0	141.2	141.4
105°	178.1	178.6	179.2	179.8	180.2	180.6	180.9	181.3	181.6	182.1	182.4
107.5°	223.6	224.4	225.2	226.0	226.4	226.4	226.4	226.4	226.4	226.6	226.7
110°	253.0	254.0	255.2	256.2	256.8	256.8	256.8	256.8	256.8	256.8	256.8



TEST NUMBER: P331508-930

CATALOG NUMBER: S122DIW-S485D970U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	284.7	285.8	286.9	288.0	288.5	288.3	288.1	288.0	287.9	287.4	287.0
115°	331.4	332.5	333.6	334.7	335.1	334.7	334.4	333.9	333.6	333.5	333.2
117.5°	378.4	379.8	381.3	382.8	382.9	382.0	380.9	379.9	378.9	378.5	378.0
120°	409.4	410.9	412.4	413.8	413.8	412.4	410.9	409.4	408.0	408.0	408.0
122.5°	438.1	439.9	441.6	443.4	443.8	442.7	441.7	440.7	439.6	439.2	438.8
125°	482.2	483.9	485.6	487.2	487.8	487.2	486.7	486.1	485.6	485.0	484.5
127.5°	525.8	527.9	530.0	532.1	532.8	532.1	531.5	530.8	530.2	529.5	528.8
130°	553.2	555.5	558.0	560.4	561.3	561.0	560.6	560.3	559.9	559.5	559.1
132.5°	583.1	585.1	587.0	589.0	590.0	590.0	590.1	590.2	590.3	589.5	588.6
135°	623.9	625.8	627.9	629.9	631.0	631.4	631.8	632.2	632.5	632.3	632.2
137.5°	666.3	667.9	669.5	671.2	672.3	672.7	673.2	673.7	674.2	674.0	673.8
140°	692.0	693.7	695.3	696.9	698.2	699.2	700.1	701.0	701.9	701.9	701.9
142.5°	718.4	720.1	721.7	723.4	724.6	725.1	725.8	726.4	727.0	727.2	727.3
145°	756.0	757.3	758.6	759.9	761.1	762.2	763.3	764.4	765.5	765.6	765.9
147.5°	790.2	791.7	793.2	794.8	795.9	796.6	797.4	798.1	798.8	799.2	799.6
150°	812.9	813.9	815.1	816.1	817.1	817.8	818.6	819.3	820.0	820.5	821.1
152.5°	833.3	834.5	835.5	836.7	837.6	838.5	839.4	840.2	841.1	841.8	842.5
155°	863.5	864.1	864.6	865.1	865.7	866.3	866.8	867.3	867.9	868.8	869.8
157.5°	889.6	889.9	890.3	890.6	891.0	891.4	891.7	892.0	892.3	893.6	894.9
160°	905.4	905.8	906.1	906.5	906.8	907.0	907.2	907.3	907.5	908.7	909.7
162.5°	919.7	919.7	919.8	919.9	920.0	920.2	920.4	920.6	920.7	922.0	923.2
165°	938.7	938.6	938.3	938.2	938.1	938.1	938.1	938.1	938.1	939.4	940.7
167.5°	954.6	954.0	953.4	952.9	952.6	952.6	952.5	952.5	952.4	953.7	955.0
170°	963.1	962.6	962.1	961.5	961.2	960.9	960.7	960.6	960.4	961.6	963.0
172.5°	969.1	968.5	968.0	967.4	967.0	966.9	966.7	966.5	966.3	967.6	968.9
175°	976.3	975.8	975.3	974.7	974.2	973.9	973.5	973.1	972.7	974.0	975.3
177.5°	979.4	979.0	978.5	978.1	977.7	977.5	977.1	976.9	976.6	977.5	978.4
180°	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5	978.5



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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°	12.1	12.1	11.8	11.8	12.1	11.9	12.0
90°	27.8	27.4	27.3	27.6	27.7	27.9	28.0
92.5°	26.5	26.6	26.6	26.7	26.7	26.7	26.7
95°	52.8	52.8	52.7	52.3	51.9	51.5	51.2
97.5°	88.9	88.9	88.9	88.8	88.8	88.7	88.7
100°	114.0	114.0	113.9	113.7	113.5	113.3	113.2
102.5°	141.5	141.6	141.6	141.5	141.2	141.0	140.9
105°	182.8	183.1	183.4	183.4	183.4	183.4	183.4
107.5°	226.9	227.0	226.7	225.8	224.9	224.1	223.3
110°	256.8	256.8	256.6	256.0	255.4	254.9	254.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	286.6	286.1	285.7	285.3	284.9	284.5	284.1
115°	333.0	332.9	332.5	332.0	331.4	330.8	330.3
117.5°	377.6	377.1	376.6	376.1	375.5	375.0	374.4
120°	408.0	408.0	407.6	407.1	406.6	406.0	405.4
122.5°	438.3	437.9	437.5	437.1	436.7	436.3	435.9
125°	483.9	483.4	483.0	482.8	482.7	482.4	482.2
127.5°	528.2	527.5	526.8	526.3	525.7	525.1	524.6
130°	558.8	558.4	557.8	557.1	556.4	555.6	554.9
132.5°	587.8	587.0	586.4	585.8	585.1	584.6	584.0
135°	632.0	631.8	631.4	630.9	630.3	629.8	629.2
137.5°	673.8	673.6	673.1	672.4	671.6	670.9	670.2
140°	701.9	701.9	701.6	700.8	700.1	699.4	698.6
142.5°	727.5	727.6	727.3	726.6	725.9	725.1	724.4
145°	766.1	766.2	766.0	765.2	764.5	763.8	763.0
147.5°	800.1	800.5	800.3	799.6	798.9	798.3	797.5
150°	821.7	822.2	822.2	821.7	821.1	820.5	820.0
152.5°	843.3	843.9	843.9	843.3	842.5	841.8	841.1
155°	870.7	871.6	871.7	871.2	870.7	870.1	869.5
157.5°	896.1	897.3	897.5	896.7	895.8	894.9	894.0
160°	910.9	911.9	912.2	911.4	910.7	910.0	909.2
162.5°	924.5	925.8	925.9	925.0	924.1	923.2	922.4
165°	941.9	943.2	943.4	942.5	941.6	940.7	939.7
167.5°	956.3	957.6	957.7	956.8	955.9	954.9	954.0
170°	964.3	965.6	965.6	964.5	963.4	962.3	961.2
172.5°	970.2	971.4	971.6	970.5	969.4	968.2	967.2
175°	976.6	977.9	978.0	976.9	975.8	974.7	973.6
177.5°	979.2	980.1	980.1	979.2	978.4	977.5	976.6
180°	978.5	978.5	978.5	978.5	978.5	978.5	978.5

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