

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: P331496-930

Luminaire Tested: **S122DIW-S485D435U930-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331496-930
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-S485D435U930-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 435 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2973.6 lumens
Efficiency: N/A
Efficacy: 98.5 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

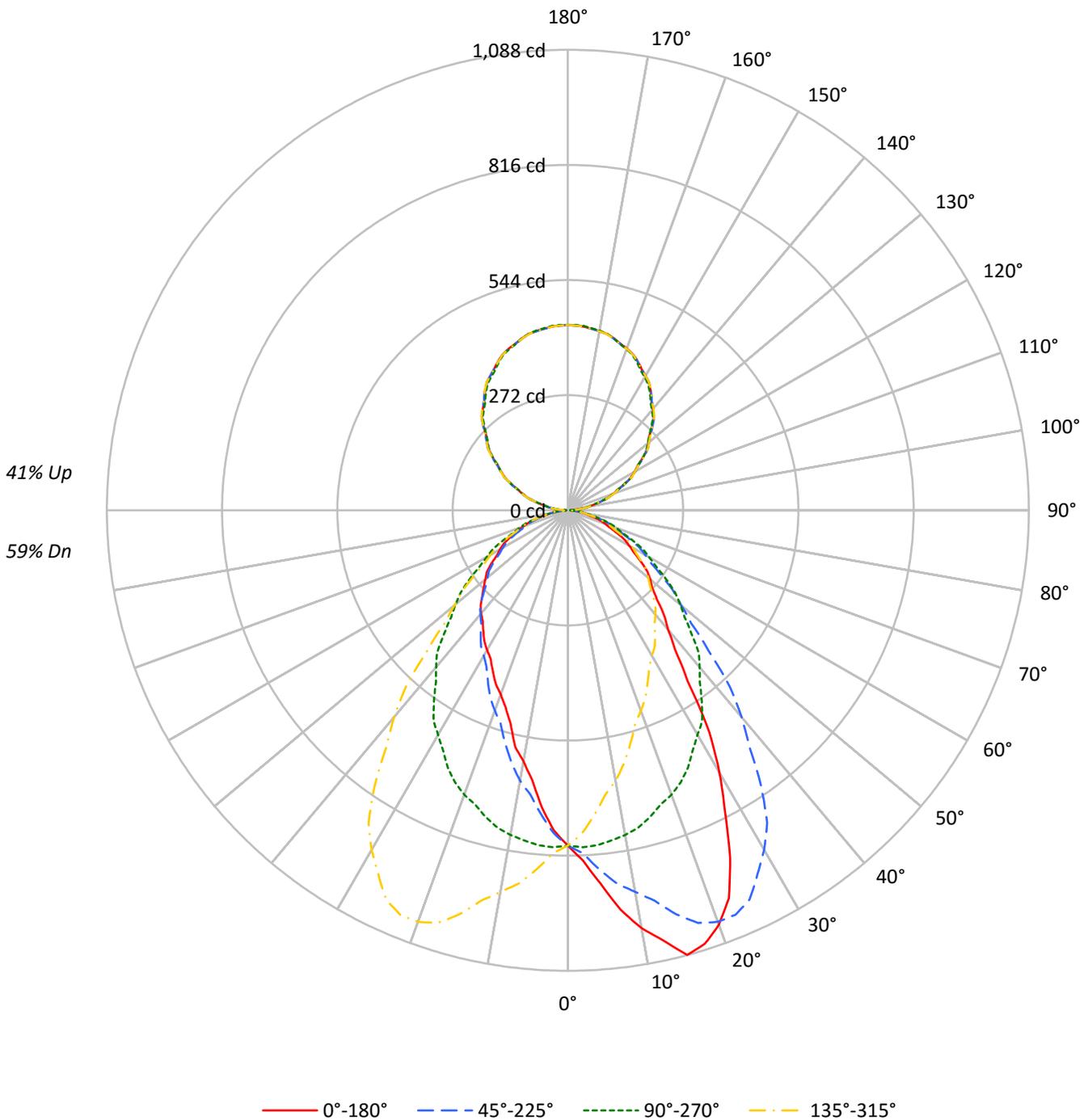
Input Watts (W): 30.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64	59
1	100	96	92	89	93	90	87	84	78	76	74	68	66	64	58	56	55	51
2	92	85	79	74	85	79	74	70	69	65	62	60	57	55	51	49	47	43
3	84	75	68	62	78	70	64	59	62	57	53	54	50	47	46	43	41	37
4	77	67	59	53	72	63	56	51	55	50	46	48	44	41	42	38	36	33
5	71	60	52	46	66	56	49	44	50	44	40	44	39	36	38	34	32	29
6	66	54	46	40	61	51	44	38	45	39	35	40	35	32	34	31	28	25
7	61	49	41	36	57	46	39	34	41	35	31	36	32	28	32	28	25	23
8	57	45	37	32	53	42	35	30	38	32	28	33	29	25	29	26	23	21
9	53	41	34	29	50	39	32	27	35	29	25	31	26	23	27	23	21	19
10	50	38	31	26	46	36	29	25	32	27	23	29	24	21	25	22	19	17

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	2.5
10°-20°	219.3	7.4
20°-30°	318.3	10.7
30°-40°	335.9	11.3
40°-50°	297.4	10.0
50°-60°	237.4	8.0
60°-70°	161.3	5.4
70°-80°	82.7	2.8
80°-90°	21.7	0.7
90°-100°	27.7	0.9
100°-110°	86.1	2.9
110°-120°	147.2	5.0
120°-130°	193.6	6.5
130°-140°	217.3	7.3
140°-150°	213.1	7.2
150°-160°	178.7	6.0
160°-170°	118.6	4.0
170°-180°	41.4	1.4
0°-30°	613.1	20.6
0°-40°	949.1	31.9
0°-60°	1483.9	49.9
0°-90°	1749.6	58.8
90°-120°	261.1	8.8
90°-150°	885.2	29.8
90°-180°	1224.0	41.2
0°-180°	2973.6	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°	13	0	13	0	13	6
95°	23	19	23	19	23	26
105°	82	79	82	79	82	86
115°	148	148	148	148	148	146
125°	216	215	216	215	216	192
135°	281	278	281	278	281	217
145°	341	338	341	338	341	213
155°	389	386	389	386	389	179
165°	420	420	420	420	420	119
175°	436	437	436	437	436	41
180°	438	438	438	438	438	



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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°	8.8	8.8	9.0	8.8	8.8	9.0	9.0	8.9	9.1	9.4	9.3
90°	12.6	12.5	12.4	12.3	12.2	12.3	12.5	12.6	12.8	13.0	11.1
92.5°	12.0	12.0	11.9	11.9	11.9	11.9	11.8	11.8	11.7	11.7	11.3
95°	22.9	23.1	23.2	23.4	23.6	23.6	23.6	23.6	23.6	23.6	23.5
97.5°	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.5
100°	50.6	50.7	50.8	50.9	51.0	51.0	51.0	51.0	51.0	51.0	50.7
102.5°	63.0	63.1	63.2	63.3	63.3	63.3	63.3	63.2	63.2	63.1	62.8
105°	82.0	82.0	82.0	82.0	82.0	81.9	81.8	81.6	81.4	81.3	81.1
107.5°	99.9	100.3	100.6	101.0	101.4	101.6	101.5	101.4	101.3	101.3	101.3
110°	113.7	114.0	114.2	114.5	114.7	114.9	114.9	114.9	114.9	114.9	114.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	127.1	127.3	127.4	127.6	127.8	128.0	128.2	128.4	128.6	128.7	128.8
115°	147.7	148.0	148.2	148.5	148.7	148.9	149.0	149.0	149.1	149.2	149.4
117.5°	167.5	167.7	168.0	168.2	168.4	168.7	168.8	169.1	169.3	169.5	169.9
120°	181.4	181.6	181.9	182.1	182.4	182.5	182.5	182.5	182.5	182.5	183.1
122.5°	194.9	195.1	195.3	195.5	195.7	195.8	196.1	196.2	196.5	196.7	197.1
125°	215.7	215.8	215.9	216.0	216.1	216.2	216.5	216.7	217.0	217.2	217.4
127.5°	234.6	234.9	235.1	235.4	235.7	235.9	236.3	236.5	236.8	237.2	237.4
130°	248.3	248.6	248.9	249.2	249.6	249.8	250.0	250.1	250.3	250.5	250.6
132.5°	261.2	261.5	261.7	262.0	262.3	262.6	262.9	263.3	263.7	264.0	264.0
135°	281.4	281.7	281.9	282.2	282.4	282.6	282.7	282.7	282.8	282.9	282.7
137.5°	299.8	300.1	300.4	300.8	301.1	301.3	301.3	301.4	301.5	301.6	301.3
140°	312.5	312.8	313.2	313.5	313.8	314.0	314.0	314.0	314.0	314.0	313.6
142.5°	324.0	324.3	324.7	325.0	325.3	325.5	325.4	325.3	325.3	325.2	324.9
145°	341.3	341.6	341.9	342.3	342.6	342.8	342.7	342.6	342.5	342.4	341.9
147.5°	356.8	357.0	357.3	357.7	358.0	358.1	357.9	357.7	357.5	357.3	357.0
150°	366.8	367.0	367.3	367.5	367.8	367.8	367.5	367.3	367.0	366.8	366.5
152.5°	376.3	376.6	376.8	377.2	377.5	377.5	377.2	376.8	376.6	376.3	375.9
155°	389.0	389.2	389.5	389.7	390.0	389.9	389.5	389.1	388.7	388.2	388.0
157.5°	399.9	400.3	400.6	401.0	401.5	401.4	400.8	400.2	399.7	399.2	399.0
160°	406.7	407.0	407.3	407.6	408.0	407.9	407.4	406.9	406.4	405.9	405.9
162.5°	412.6	412.9	413.4	413.8	414.2	414.1	413.5	412.9	412.4	411.9	411.8
165°	420.4	420.8	421.2	421.6	422.0	421.9	421.3	420.8	420.2	419.6	419.6
167.5°	426.7	427.1	427.5	428.0	428.4	428.4	427.8	427.2	426.6	426.1	426.1
170°	430.0	430.5	431.0	431.5	431.9	431.9	431.3	430.7	430.2	429.6	429.7
172.5°	432.6	433.1	433.6	434.1	434.6	434.6	434.0	433.4	432.8	432.3	432.4
175°	435.5	436.0	436.5	437.0	437.5	437.4	436.8	436.3	435.7	435.1	435.3
177.5°	436.8	437.2	437.7	438.0	438.4	438.4	438.0	437.7	437.2	436.8	436.9
180°	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7



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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°	9.1	8.8	8.5	8.6	7.7	7.5	6.4	5.5	5.4	5.3	5.1
90°	9.3	7.5	5.7	4.3	3.3	2.4	1.4	0.4	1.4	2.4	3.3
92.5°	10.9	10.4	10.0	9.5	8.7	8.0	7.3	6.6	7.3	8.0	8.7
95°	23.3	23.2	23.0	22.5	21.7	20.9	20.1	19.2	20.1	20.9	21.7
97.5°	39.1	38.8	38.5	38.0	37.3	36.5	35.8	35.1	35.8	36.5	37.3
100°	50.5	50.2	50.0	49.6	48.9	48.2	47.5	46.9	47.5	48.2	48.9
102.5°	62.5	62.1	61.9	61.4	60.9	60.3	59.8	59.4	59.8	60.3	60.9
105°	81.0	80.8	80.6	80.4	80.1	79.9	79.7	79.4	79.7	79.9	80.1
107.5°	101.3	101.3	101.3	101.1	100.8	100.4	100.0	99.6	100.0	100.4	100.8
110°	114.9	114.9	114.9	114.6	114.1	113.7	113.2	112.7	113.2	113.7	114.1



TEST NUMBER: P331496-930

CATALOG NUMBER: S122DIW-S485D435U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	128.9	129.0	129.1	128.8	128.3	127.8	127.3	126.9	127.3	127.8	128.3
115°	149.5	149.7	149.9	149.7	149.2	148.7	148.2	147.7	148.2	148.7	149.2
117.5°	170.4	170.9	171.3	171.2	170.6	169.9	169.3	168.6	169.3	169.9	170.6
120°	183.8	184.4	185.1	185.1	184.4	183.8	183.1	182.5	183.1	183.8	184.4
122.5°	197.5	198.0	198.5	198.4	197.5	196.7	196.0	195.2	196.0	196.7	197.5
125°	217.7	217.9	218.2	217.9	217.2	216.5	215.7	215.0	215.7	216.5	217.2
127.5°	237.7	238.1	238.3	238.0	237.1	236.1	235.2	234.2	235.2	236.1	237.1
130°	250.8	250.9	251.1	250.6	249.6	248.5	247.4	246.4	247.4	248.5	249.6
132.5°	264.0	263.9	263.9	263.4	262.6	261.7	260.8	260.0	260.8	261.7	262.6
135°	282.6	282.4	282.3	281.8	280.9	280.0	279.1	278.2	279.1	280.0	280.9
137.5°	301.2	300.9	300.7	300.2	299.5	298.7	298.0	297.3	298.0	298.7	299.5
140°	313.2	312.7	312.3	311.8	311.0	310.3	309.6	308.8	309.6	310.3	311.0
142.5°	324.7	324.3	324.1	323.6	322.9	322.1	321.4	320.7	321.4	322.1	322.9
145°	341.4	341.0	340.5	339.9	339.3	338.8	338.2	337.6	338.2	338.8	339.3
147.5°	356.7	356.4	356.0	355.6	354.8	354.2	353.4	352.8	353.4	354.2	354.8
150°	366.2	365.8	365.5	365.1	364.6	364.1	363.6	363.1	363.6	364.1	364.6
152.5°	375.4	375.0	374.7	374.2	373.7	373.2	372.8	372.3	372.8	373.2	373.7
155°	387.8	387.5	387.3	387.0	386.8	386.5	386.2	386.0	386.2	386.5	386.8
157.5°	398.8	398.7	398.5	398.4	398.3	398.1	397.9	397.8	397.9	398.1	398.3
160°	405.8	405.7	405.6	405.5	405.4	405.2	405.0	404.9	405.0	405.2	405.4
162.5°	411.7	411.6	411.6	411.5	411.4	411.4	411.4	411.3	411.4	411.4	411.4
165°	419.6	419.6	419.6	419.6	419.7	419.8	419.9	420.0	419.9	419.8	419.7
167.5°	426.1	426.1	426.1	426.2	426.5	426.7	427.0	427.2	427.0	426.7	426.5
170°	429.7	429.8	429.9	430.1	430.3	430.6	430.8	431.0	430.8	430.6	430.3
172.5°	432.4	432.5	432.6	432.8	433.0	433.3	433.5	433.7	433.5	433.3	433.0
175°	435.5	435.6	435.8	436.0	436.3	436.5	436.8	437.0	436.8	436.5	436.3
177.5°	437.1	437.2	437.3	437.5	437.7	437.9	438.1	438.3	438.1	437.9	437.7
180°	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7



TEST NUMBER: P331496-930

CATALOG NUMBER: S122DIW-S485D435U930-4F0-1E-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°	5.0	5.1	5.1	5.5	5.6	5.8	5.5	5.5	5.4	4.9	4.9
90°	4.3	5.7	7.5	9.3	11.1	13.0	12.8	12.6	12.5	12.3	12.2
92.5°	9.5	10.0	10.4	10.9	11.3	11.7	11.7	11.8	11.8	11.9	11.9
95°	22.5	23.0	23.2	23.3	23.5	23.6	23.6	23.6	23.6	23.6	23.6
97.5°	38.0	38.5	38.8	39.1	39.5	39.7	39.7	39.7	39.7	39.7	39.7
100°	49.6	50.0	50.2	50.5	50.7	51.0	51.0	51.0	51.0	51.0	51.0
102.5°	61.4	61.9	62.1	62.5	62.8	63.1	63.2	63.2	63.3	63.3	63.3
105°	80.4	80.6	80.8	81.0	81.1	81.3	81.4	81.6	81.8	81.9	82.0
107.5°	101.1	101.3	101.3	101.3	101.3	101.3	101.3	101.4	101.5	101.6	101.4
110°	114.6	114.9	114.9	114.9	114.9	114.9	114.9	114.9	114.9	114.9	114.7



TEST NUMBER: P331496-930

CATALOG NUMBER: S122DIW-S485D435U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	128.8	129.1	129.0	128.9	128.8	128.7	128.6	128.4	128.2	128.0	127.8
115°	149.7	149.9	149.7	149.5	149.4	149.2	149.1	149.0	149.0	148.9	148.7
117.5°	171.2	171.3	170.9	170.4	169.9	169.5	169.3	169.1	168.8	168.7	168.4
120°	185.1	185.1	184.4	183.8	183.1	182.5	182.5	182.5	182.5	182.5	182.4
122.5°	198.4	198.5	198.0	197.5	197.1	196.7	196.5	196.2	196.1	195.8	195.7
125°	217.9	218.2	217.9	217.7	217.4	217.2	217.0	216.7	216.5	216.2	216.1
127.5°	238.0	238.3	238.1	237.7	237.4	237.2	236.8	236.5	236.3	235.9	235.7
130°	250.6	251.1	250.9	250.8	250.6	250.5	250.3	250.1	250.0	249.8	249.6
132.5°	263.4	263.9	263.9	264.0	264.0	264.0	263.7	263.3	262.9	262.6	262.3
135°	281.8	282.3	282.4	282.6	282.7	282.9	282.8	282.7	282.7	282.6	282.4
137.5°	300.2	300.7	300.9	301.2	301.3	301.6	301.5	301.4	301.3	301.3	301.1
140°	311.8	312.3	312.7	313.2	313.6	314.0	314.0	314.0	314.0	314.0	313.8
142.5°	323.6	324.1	324.3	324.7	324.9	325.2	325.3	325.3	325.4	325.5	325.3
145°	339.9	340.5	341.0	341.4	341.9	342.4	342.5	342.6	342.7	342.8	342.6
147.5°	355.6	356.0	356.4	356.7	357.0	357.3	357.5	357.7	357.9	358.1	358.0
150°	365.1	365.5	365.8	366.2	366.5	366.8	367.0	367.3	367.5	367.8	367.8
152.5°	374.2	374.7	375.0	375.4	375.9	376.3	376.6	376.8	377.2	377.5	377.5
155°	387.0	387.3	387.5	387.8	388.0	388.2	388.7	389.1	389.5	389.9	390.0
157.5°	398.4	398.5	398.7	398.8	399.0	399.2	399.7	400.2	400.8	401.4	401.5
160°	405.5	405.6	405.7	405.8	405.9	405.9	406.4	406.9	407.4	407.9	408.0
162.5°	411.5	411.6	411.6	411.7	411.8	411.9	412.4	412.9	413.5	414.1	414.2
165°	419.6	419.6	419.6	419.6	419.6	419.6	420.2	420.8	421.3	421.9	422.0
167.5°	426.2	426.1	426.1	426.1	426.1	426.1	426.6	427.2	427.8	428.4	428.4
170°	430.1	429.9	429.8	429.7	429.7	429.6	430.2	430.7	431.3	431.9	431.9
172.5°	432.8	432.6	432.5	432.4	432.4	432.3	432.8	433.4	434.0	434.6	434.6
175°	436.0	435.8	435.6	435.5	435.3	435.1	435.7	436.3	436.8	437.4	437.5
177.5°	437.5	437.3	437.2	437.1	436.9	436.8	437.2	437.7	438.0	438.4	438.4
180°	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7



TEST NUMBER: P331496-930

CATALOG NUMBER: S122DIW-S485D435U930-4F0-1E-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°	4.9	4.6	4.6	4.5	4.6	4.6	4.9	4.9	4.9	5.4	5.5
90°	12.3	12.4	12.5	12.6	12.5	12.4	12.3	12.2	12.3	12.5	12.6
92.5°	11.9	11.9	12.0	12.0	12.0	11.9	11.9	11.9	11.9	11.8	11.8
95°	23.4	23.2	23.1	22.9	23.1	23.2	23.4	23.6	23.6	23.6	23.6
97.5°	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7
100°	50.9	50.8	50.7	50.6	50.7	50.8	50.9	51.0	51.0	51.0	51.0
102.5°	63.3	63.2	63.1	63.0	63.1	63.2	63.3	63.3	63.3	63.3	63.2
105°	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	81.9	81.8	81.6
107.5°	101.0	100.6	100.3	99.9	100.3	100.6	101.0	101.4	101.6	101.5	101.4
110°	114.5	114.2	114.0	113.7	114.0	114.2	114.5	114.7	114.9	114.9	114.9



TEST NUMBER: P331496-930

CATALOG NUMBER: S122DIW-S485D435U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	127.6	127.4	127.3	127.1	127.3	127.4	127.6	127.8	128.0	128.2	128.4
115°	148.5	148.2	148.0	147.7	148.0	148.2	148.5	148.7	148.9	149.0	149.0
117.5°	168.2	168.0	167.7	167.5	167.7	168.0	168.2	168.4	168.7	168.8	169.1
120°	182.1	181.9	181.6	181.4	181.6	181.9	182.1	182.4	182.5	182.5	182.5
122.5°	195.5	195.3	195.1	194.9	195.1	195.3	195.5	195.7	195.8	196.1	196.2
125°	216.0	215.9	215.8	215.7	215.8	215.9	216.0	216.1	216.2	216.5	216.7
127.5°	235.4	235.1	234.9	234.6	234.9	235.1	235.4	235.7	235.9	236.3	236.5
130°	249.2	248.9	248.6	248.3	248.6	248.9	249.2	249.6	249.8	250.0	250.1
132.5°	262.0	261.7	261.5	261.2	261.5	261.7	262.0	262.3	262.6	262.9	263.3
135°	282.2	281.9	281.7	281.4	281.7	281.9	282.2	282.4	282.6	282.7	282.7
137.5°	300.8	300.4	300.1	299.8	300.1	300.4	300.8	301.1	301.3	301.3	301.4
140°	313.5	313.2	312.8	312.5	312.8	313.2	313.5	313.8	314.0	314.0	314.0
142.5°	325.0	324.7	324.3	324.0	324.3	324.7	325.0	325.3	325.5	325.4	325.3
145°	342.3	341.9	341.6	341.3	341.6	341.9	342.3	342.6	342.8	342.7	342.6
147.5°	357.7	357.3	357.0	356.8	357.0	357.3	357.7	358.0	358.1	357.9	357.7
150°	367.5	367.3	367.0	366.8	367.0	367.3	367.5	367.8	367.8	367.5	367.3
152.5°	377.2	376.8	376.6	376.3	376.6	376.8	377.2	377.5	377.5	377.2	376.8
155°	389.7	389.5	389.2	389.0	389.2	389.5	389.7	390.0	389.9	389.5	389.1
157.5°	401.0	400.6	400.3	399.9	400.3	400.6	401.0	401.5	401.4	400.8	400.2
160°	407.6	407.3	407.0	406.7	407.0	407.3	407.6	408.0	407.9	407.4	406.9
162.5°	413.8	413.4	412.9	412.6	412.9	413.4	413.8	414.2	414.1	413.5	412.9
165°	421.6	421.2	420.8	420.4	420.8	421.2	421.6	422.0	421.9	421.3	420.8
167.5°	428.0	427.5	427.1	426.7	427.1	427.5	428.0	428.4	428.4	427.8	427.2
170°	431.5	431.0	430.5	430.0	430.5	431.0	431.5	431.9	431.9	431.3	430.7
172.5°	434.1	433.6	433.1	432.6	433.1	433.6	434.1	434.6	434.6	434.0	433.4
175°	437.0	436.5	436.0	435.5	436.0	436.5	437.0	437.5	437.4	436.8	436.3
177.5°	438.0	437.7	437.2	436.8	437.2	437.7	438.0	438.4	438.4	438.0	437.7
180°	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7



TEST NUMBER: P331496-930

CATALOG NUMBER: S122DIW-S485D435U930-4F0-1E-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°	5.5	5.8	5.6	5.5	5.1	5.1	5.0	5.1	5.3	5.4	5.5
90°	12.8	13.0	11.1	9.3	7.5	5.7	4.3	3.3	2.4	1.4	0.4
92.5°	11.7	11.7	11.3	10.9	10.4	10.0	9.5	8.7	8.0	7.3	6.6
95°	23.6	23.6	23.5	23.3	23.2	23.0	22.5	21.7	20.9	20.1	19.2
97.5°	39.7	39.7	39.5	39.1	38.8	38.5	38.0	37.3	36.5	35.8	35.1
100°	51.0	51.0	50.7	50.5	50.2	50.0	49.6	48.9	48.2	47.5	46.9
102.5°	63.2	63.1	62.8	62.5	62.1	61.9	61.4	60.9	60.3	59.8	59.4
105°	81.4	81.3	81.1	81.0	80.8	80.6	80.4	80.1	79.9	79.7	79.4
107.5°	101.3	101.3	101.3	101.3	101.3	101.3	101.1	100.8	100.4	100.0	99.6
110°	114.9	114.9	114.9	114.9	114.9	114.9	114.6	114.1	113.7	113.2	112.7



TEST NUMBER: P331496-930

CATALOG NUMBER: S122DIW-S485D435U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	128.6	128.7	128.8	128.9	129.0	129.1	128.8	128.3	127.8	127.3	126.9
115°	149.1	149.2	149.4	149.5	149.7	149.9	149.7	149.2	148.7	148.2	147.7
117.5°	169.3	169.5	169.9	170.4	170.9	171.3	171.2	170.6	169.9	169.3	168.6
120°	182.5	182.5	183.1	183.8	184.4	185.1	185.1	184.4	183.8	183.1	182.5
122.5°	196.5	196.7	197.1	197.5	198.0	198.5	198.4	197.5	196.7	196.0	195.2
125°	217.0	217.2	217.4	217.7	217.9	218.2	217.9	217.2	216.5	215.7	215.0
127.5°	236.8	237.2	237.4	237.7	238.1	238.3	238.0	237.1	236.1	235.2	234.2
130°	250.3	250.5	250.6	250.8	250.9	251.1	250.6	249.6	248.5	247.4	246.4
132.5°	263.7	264.0	264.0	264.0	263.9	263.9	263.4	262.6	261.7	260.8	260.0
135°	282.8	282.9	282.7	282.6	282.4	282.3	281.8	280.9	280.0	279.1	278.2
137.5°	301.5	301.6	301.3	301.2	300.9	300.7	300.2	299.5	298.7	298.0	297.3
140°	314.0	314.0	313.6	313.2	312.7	312.3	311.8	311.0	310.3	309.6	308.8
142.5°	325.3	325.2	324.9	324.7	324.3	324.1	323.6	322.9	322.1	321.4	320.7
145°	342.5	342.4	341.9	341.4	341.0	340.5	339.9	339.3	338.8	338.2	337.6
147.5°	357.5	357.3	357.0	356.7	356.4	356.0	355.6	354.8	354.2	353.4	352.8
150°	367.0	366.8	366.5	366.2	365.8	365.5	365.1	364.6	364.1	363.6	363.1
152.5°	376.6	376.3	375.9	375.4	375.0	374.7	374.2	373.7	373.2	372.8	372.3
155°	388.7	388.2	388.0	387.8	387.5	387.3	387.0	386.8	386.5	386.2	386.0
157.5°	399.7	399.2	399.0	398.8	398.7	398.5	398.4	398.3	398.1	397.9	397.8
160°	406.4	405.9	405.9	405.8	405.7	405.6	405.5	405.4	405.2	405.0	404.9
162.5°	412.4	411.9	411.8	411.7	411.6	411.6	411.5	411.4	411.4	411.4	411.3
165°	420.2	419.6	419.6	419.6	419.6	419.6	419.6	419.7	419.8	419.9	420.0
167.5°	426.6	426.1	426.1	426.1	426.1	426.1	426.2	426.5	426.7	427.0	427.2
170°	430.2	429.6	429.7	429.7	429.8	429.9	430.1	430.3	430.6	430.8	431.0
172.5°	432.8	432.3	432.4	432.4	432.5	432.6	432.8	433.0	433.3	433.5	433.7
175°	435.7	435.1	435.3	435.5	435.6	435.8	436.0	436.3	436.5	436.8	437.0
177.5°	437.2	436.8	436.9	437.1	437.2	437.3	437.5	437.7	437.9	438.1	438.3
180°	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7



TEST NUMBER: P331496-930

CATALOG NUMBER: S122DIW-S485D435U930-4F0-1E-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°	6.4	7.5	7.7	8.6	8.5	8.8	9.1	9.3	9.4	9.1	8.9
90°	1.4	2.4	3.3	4.3	5.7	7.5	9.3	11.1	13.0	12.8	12.6
92.5°	7.3	8.0	8.7	9.5	10.0	10.4	10.9	11.3	11.7	11.7	11.8
95°	20.1	20.9	21.7	22.5	23.0	23.2	23.3	23.5	23.6	23.6	23.6
97.5°	35.8	36.5	37.3	38.0	38.5	38.8	39.1	39.5	39.7	39.7	39.7
100°	47.5	48.2	48.9	49.6	50.0	50.2	50.5	50.7	51.0	51.0	51.0
102.5°	59.8	60.3	60.9	61.4	61.9	62.1	62.5	62.8	63.1	63.2	63.2
105°	79.7	79.9	80.1	80.4	80.6	80.8	81.0	81.1	81.3	81.4	81.6
107.5°	100.0	100.4	100.8	101.1	101.3	101.3	101.3	101.3	101.3	101.3	101.4
110°	113.2	113.7	114.1	114.6	114.9	114.9	114.9	114.9	114.9	114.9	114.9



TEST NUMBER: P331496-930

CATALOG NUMBER: S122DIW-S485D435U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	127.3	127.8	128.3	128.8	129.1	129.0	128.9	128.8	128.7	128.6	128.4
115°	148.2	148.7	149.2	149.7	149.9	149.7	149.5	149.4	149.2	149.1	149.0
117.5°	169.3	169.9	170.6	171.2	171.3	170.9	170.4	169.9	169.5	169.3	169.1
120°	183.1	183.8	184.4	185.1	185.1	184.4	183.8	183.1	182.5	182.5	182.5
122.5°	196.0	196.7	197.5	198.4	198.5	198.0	197.5	197.1	196.7	196.5	196.2
125°	215.7	216.5	217.2	217.9	218.2	217.9	217.7	217.4	217.2	217.0	216.7
127.5°	235.2	236.1	237.1	238.0	238.3	238.1	237.7	237.4	237.2	236.8	236.5
130°	247.4	248.5	249.6	250.6	251.1	250.9	250.8	250.6	250.5	250.3	250.1
132.5°	260.8	261.7	262.6	263.4	263.9	263.9	264.0	264.0	264.0	263.7	263.3
135°	279.1	280.0	280.9	281.8	282.3	282.4	282.6	282.7	282.9	282.8	282.7
137.5°	298.0	298.7	299.5	300.2	300.7	300.9	301.2	301.3	301.6	301.5	301.4
140°	309.6	310.3	311.0	311.8	312.3	312.7	313.2	313.6	314.0	314.0	314.0
142.5°	321.4	322.1	322.9	323.6	324.1	324.3	324.7	324.9	325.2	325.3	325.3
145°	338.2	338.8	339.3	339.9	340.5	341.0	341.4	341.9	342.4	342.5	342.6
147.5°	353.4	354.2	354.8	355.6	356.0	356.4	356.7	357.0	357.3	357.5	357.7
150°	363.6	364.1	364.6	365.1	365.5	365.8	366.2	366.5	366.8	367.0	367.3
152.5°	372.8	373.2	373.7	374.2	374.7	375.0	375.4	375.9	376.3	376.6	376.8
155°	386.2	386.5	386.8	387.0	387.3	387.5	387.8	388.0	388.2	388.7	389.1
157.5°	397.9	398.1	398.3	398.4	398.5	398.7	398.8	399.0	399.2	399.7	400.2
160°	405.0	405.2	405.4	405.5	405.6	405.7	405.8	405.9	405.9	406.4	406.9
162.5°	411.4	411.4	411.4	411.5	411.6	411.6	411.7	411.8	411.9	412.4	412.9
165°	419.9	419.8	419.7	419.6	419.6	419.6	419.6	419.6	419.6	420.2	420.8
167.5°	427.0	426.7	426.5	426.2	426.1	426.1	426.1	426.1	426.1	426.6	427.2
170°	430.8	430.6	430.3	430.1	429.9	429.8	429.7	429.7	429.6	430.2	430.7
172.5°	433.5	433.3	433.0	432.8	432.6	432.5	432.4	432.4	432.3	432.8	433.4
175°	436.8	436.5	436.3	436.0	435.8	435.6	435.5	435.3	435.1	435.7	436.3
177.5°	438.1	437.9	437.7	437.5	437.3	437.2	437.1	436.9	436.8	437.2	437.7
180°	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7	437.7



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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°	9.0	9.0	8.8	8.8	9.0	8.8	8.8
90°	12.5	12.3	12.2	12.3	12.4	12.5	12.6
92.5°	11.8	11.9	11.9	11.9	11.9	12.0	12.0
95°	23.6	23.6	23.6	23.4	23.2	23.1	22.9
97.5°	39.7	39.7	39.7	39.7	39.7	39.7	39.7
100°	51.0	51.0	51.0	50.9	50.8	50.7	50.6
102.5°	63.3	63.3	63.3	63.3	63.2	63.1	63.0
105°	81.8	81.9	82.0	82.0	82.0	82.0	82.0
107.5°	101.5	101.6	101.4	101.0	100.6	100.3	99.9
110°	114.9	114.9	114.7	114.5	114.2	114.0	113.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	128.2	128.0	127.8	127.6	127.4	127.3	127.1
115°	149.0	148.9	148.7	148.5	148.2	148.0	147.7
117.5°	168.8	168.7	168.4	168.2	168.0	167.7	167.5
120°	182.5	182.5	182.4	182.1	181.9	181.6	181.4
122.5°	196.1	195.8	195.7	195.5	195.3	195.1	194.9
125°	216.5	216.2	216.1	216.0	215.9	215.8	215.7
127.5°	236.3	235.9	235.7	235.4	235.1	234.9	234.6
130°	250.0	249.8	249.6	249.2	248.9	248.6	248.3
132.5°	262.9	262.6	262.3	262.0	261.7	261.5	261.2
135°	282.7	282.6	282.4	282.2	281.9	281.7	281.4
137.5°	301.3	301.3	301.1	300.8	300.4	300.1	299.8
140°	314.0	314.0	313.8	313.5	313.2	312.8	312.5
142.5°	325.4	325.5	325.3	325.0	324.7	324.3	324.0
145°	342.7	342.8	342.6	342.3	341.9	341.6	341.3
147.5°	357.9	358.1	358.0	357.7	357.3	357.0	356.8
150°	367.5	367.8	367.8	367.5	367.3	367.0	366.8
152.5°	377.2	377.5	377.5	377.2	376.8	376.6	376.3
155°	389.5	389.9	390.0	389.7	389.5	389.2	389.0
157.5°	400.8	401.4	401.5	401.0	400.6	400.3	399.9
160°	407.4	407.9	408.0	407.6	407.3	407.0	406.7
162.5°	413.5	414.1	414.2	413.8	413.4	412.9	412.6
165°	421.3	421.9	422.0	421.6	421.2	420.8	420.4
167.5°	427.8	428.4	428.4	428.0	427.5	427.1	426.7
170°	431.3	431.9	431.9	431.5	431.0	430.5	430.0
172.5°	434.0	434.6	434.6	434.1	433.6	433.1	432.6
175°	436.8	437.4	437.5	437.0	436.5	436.0	435.5
177.5°	438.0	438.4	438.4	438.0	437.7	437.2	436.8
180°	437.7	437.7	437.7	437.7	437.7	437.7	437.7

(END OF REPORT)