

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: P331496-927

Luminaire Tested: **S122DIW-S485D435U927-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331496-927
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-S485D435U927-4F0-1E-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: 2889.3 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

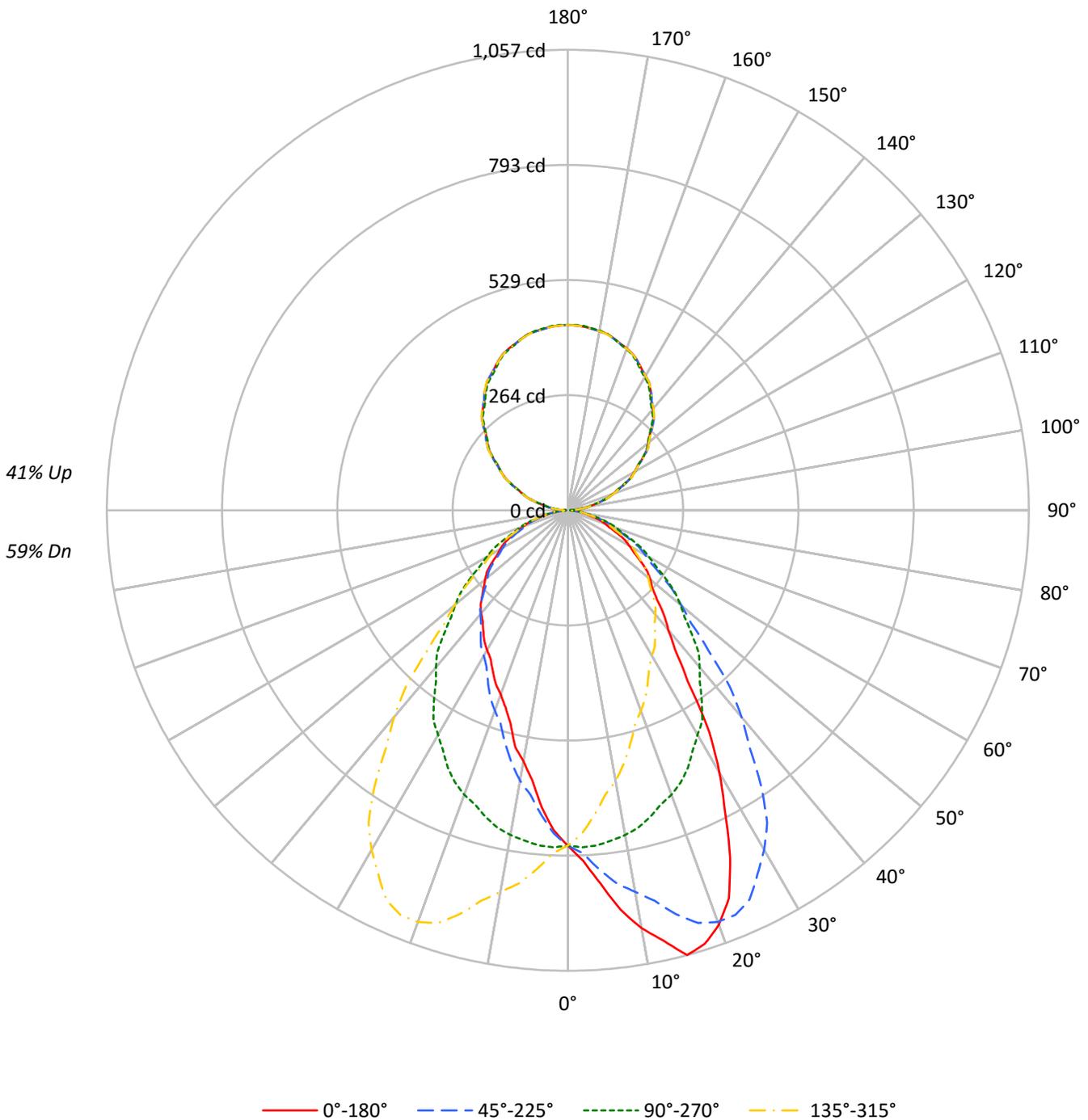
Input Watts (W): 30.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
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	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°	12429	12429	12429	12429
5°	13935	12511	11086	12511
10°	15967	12408	9594	12408
15°	17665	12179	8476	12179
20°	17395	11936	7727	11936
25°	15684	11610	7252	11610
30°	12961	11091	6906	11091
35°	9447	10549	6660	10549
40°	7546	9908	6521	9908
45°	6594	9168	6336	9168
50°	6199	8450	6212	8450
55°	5714	7721	6046	7721
60°	5238	6946	5790	6946
65°	4768	6250	5540	6250
70°	4329	5570	5169	5570
75°	3843	4816	4579	4816
80°	3301	3989	3682	3989
85°	2964	2964	2186	2964



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.3	2.5
10°-20°	213.1	7.4
20°-30°	309.3	10.7
30°-40°	326.4	11.3
40°-50°	289.0	10.0
50°-60°	230.6	8.0
60°-70°	156.8	5.4
70°-80°	80.4	2.8
80°-90°	21.1	0.7
90°-100°	27.0	0.9
100°-110°	83.7	2.9
110°-120°	143.1	5.0
120°-130°	188.1	6.5
130°-140°	211.2	7.3
140°-150°	207.1	7.2
150°-160°	173.7	6.0
160°-170°	115.2	4.0
170°-180°	40.3	1.4
0°-30°	595.8	20.6
0°-40°	922.2	31.9
0°-60°	1441.8	49.9
0°-90°	1700.0	58.8
90°-120°	253.7	8.8
90°-150°	860.1	29.8
90°-180°	1189.0	41.2
0°-180°	2889.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	770	770	770	770	770	
5°	860	772	684	772	860	86
15°	1057	729	507	729	1057	292
25°	880	652	407	652	880	398
35°	479	535	338	535	479	312
45°	289	402	278	402	289	227
55°	203	274	215	274	203	182
65°	125	164	145	164	125	124
75°	62	77	73	77	62	66
85°	16	16	12	16	16	18
90°	12	0	12	0	12	6
95°	22	19	22	19	22	25
105°	80	77	80	77	80	84
115°	144	144	144	144	144	142
125°	210	209	210	209	210	187
135°	274	270	274	270	274	211
145°	332	328	332	328	332	207
155°	378	375	378	375	378	174
165°	408	408	408	408	408	115
175°	423	425	423	425	423	40
180°	425	425	425	425	425	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8
2.5°	805.3	805.6	806.0	802.2	801.8	801.8	798.4	795.6	792.3	787.7	788.2
5°	859.8	863.0	864.2	860.6	855.3	854.7	849.7	841.4	833.7	827.5	823.1
7.5°	924.7	926.0	923.1	918.5	914.5	907.4	898.0	888.8	876.0	864.2	855.5
10°	973.9	975.7	970.7	963.8	958.2	950.0	936.4	922.4	905.6	889.3	876.3
12.5°	1011.3	1015.7	1009.2	1008.4	998.7	987.4	971.1	964.1	940.4	917.7	903.7
15°	1056.8	1056.5	1057.1	1051.5	1044.3	1042.6	1025.4	1006.8	973.4	960.0	936.9
17.5°	1043.6	1048.1	1050.2	1050.1	1050.0	1048.8	1043.3	1031.6	1014.8	993.2	966.6
20°	1012.4	1018.3	1019.2	1026.0	1029.8	1034.9	1037.0	1033.7	1023.3	1005.3	982.2
22.5°	964.1	965.7	968.5	979.1	987.5	1000.1	1006.6	1017.6	1013.6	1004.8	985.6
25°	880.4	877.5	887.8	893.2	912.4	932.5	947.0	963.0	977.2	985.8	980.2
27.5°	780.0	775.5	791.1	805.2	820.8	842.6	865.1	891.8	914.0	941.8	951.3
30°	695.2	697.9	712.7	727.8	751.5	782.2	807.6	836.9	868.6	899.7	921.2
32.5°	603.9	614.1	623.4	646.6	667.4	701.7	739.0	775.6	815.2	850.4	883.8
35°	479.3	491.1	504.1	521.0	550.2	584.3	620.7	670.1	724.0	772.1	811.8
37.5°	403.4	401.6	409.0	421.2	444.9	472.4	514.2	563.1	626.5	683.1	739.0
40°	358.0	356.8	362.1	373.4	391.4	411.5	448.2	491.1	550.0	619.2	685.8
42.5°	326.7	327.4	330.4	338.3	350.7	367.3	394.7	431.3	485.1	550.3	621.9
45°	288.8	290.8	294.1	297.9	305.0	318.6	334.0	360.0	402.7	457.1	527.5
47.5°	261.4	261.5	264.7	268.2	272.4	280.0	292.6	309.0	339.0	383.3	443.9
50°	246.8	244.6	247.0	249.7	254.1	259.4	267.8	283.1	303.2	339.1	389.6
52.5°	228.8	228.8	230.9	232.0	235.9	241.2	248.8	259.4	277.7	305.7	347.3
55°	203.0	204.5	205.7	207.4	211.0	214.8	220.7	227.8	242.0	263.0	293.7
57.5°	178.7	179.2	180.4	183.7	186.0	189.5	195.1	201.6	210.8	226.4	249.5
60°	162.2	162.2	164.5	166.0	168.9	172.5	176.9	183.2	191.4	204.1	222.8
62.5°	146.9	146.7	147.7	150.1	152.3	155.7	160.1	165.4	173.2	184.5	199.8
65°	124.8	124.3	126.0	126.6	129.0	132.2	135.8	141.4	147.7	155.9	169.5
67.5°	103.5	104.3	105.2	106.3	107.7	111.1	113.4	117.4	122.6	129.5	138.8
70°	91.7	91.7	91.7	92.6	94.3	96.2	98.5	101.8	106.8	112.7	121.0
72.5°	78.4	79.4	80.3	79.9	82.1	83.1	86.0	87.8	92.6	96.4	103.7
75°	61.6	61.6	61.6	63.0	63.9	64.8	66.5	68.4	70.7	75.4	79.3
77.5°	45.9	45.8	46.1	46.4	47.4	48.5	49.0	50.6	52.8	55.0	58.2
80°	35.5	36.1	36.4	37.0	37.0	37.5	37.9	39.9	41.4	42.9	45.0
82.5°	27.5	27.6	27.6	27.7	28.0	28.4	29.1	29.8	30.3	31.5	33.1
85°	16.0	15.7	15.7	16.2	16.0	16.0	16.6	17.2	17.2	17.4	18.4
87.5°	8.6	8.6	8.8	8.6	8.6	8.8	8.8	8.6	8.9	9.1	9.0
90°	12.2	12.1	12.0	12.0	11.9	12.0	12.1	12.3	12.4	12.6	10.8
92.5°	11.6	11.6	11.6	11.6	11.6	11.6	11.5	11.5	11.4	11.4	11.0
95°	22.3	22.4	22.6	22.7	22.9	23.0	23.0	23.0	23.0	23.0	22.8
97.5°	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.3
100°	49.2	49.3	49.4	49.4	49.5	49.5	49.5	49.5	49.5	49.5	49.3
102.5°	61.2	61.3	61.4	61.5	61.6	61.6	61.5	61.4	61.4	61.3	61.0
105°	79.7	79.7	79.7	79.7	79.7	79.6	79.5	79.3	79.1	79.0	78.8
107.5°	97.0	97.4	97.8	98.2	98.5	98.7	98.6	98.5	98.5	98.4	98.4
110°	110.5	110.7	111.0	111.2	111.5	111.6	111.6	111.6	111.6	111.6	111.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	123.5	123.7	123.8	124.0	124.1	124.4	124.5	124.8	124.9	125.1	125.2
115°	143.5	143.8	144.0	144.3	144.5	144.7	144.7	144.8	144.9	145.0	145.1
117.5°	162.7	163.0	163.2	163.4	163.7	163.9	164.1	164.3	164.5	164.7	165.1
120°	176.3	176.5	176.7	177.0	177.2	177.3	177.3	177.3	177.3	177.3	177.9
122.5°	189.4	189.6	189.8	190.0	190.1	190.3	190.5	190.7	190.9	191.1	191.5
125°	209.6	209.7	209.8	209.8	209.9	210.1	210.3	210.6	210.8	211.0	211.3
127.5°	228.0	228.2	228.5	228.7	229.0	229.3	229.6	229.8	230.1	230.4	230.7
130°	241.2	241.5	241.9	242.2	242.5	242.7	242.9	243.0	243.2	243.4	243.5
132.5°	253.8	254.1	254.3	254.6	254.8	255.2	255.5	255.9	256.2	256.5	256.5
135°	273.5	273.7	273.9	274.2	274.4	274.6	274.6	274.7	274.8	274.9	274.7
137.5°	291.3	291.6	291.9	292.2	292.6	292.8	292.8	292.9	292.9	293.0	292.8
140°	303.6	304.0	304.3	304.6	304.9	305.1	305.1	305.1	305.1	305.1	304.7
142.5°	314.8	315.1	315.4	315.8	316.1	316.2	316.2	316.1	316.1	316.0	315.7
145°	331.6	331.9	332.2	332.6	332.9	333.0	333.0	332.9	332.8	332.7	332.2
147.5°	346.7	346.9	347.2	347.5	347.8	347.9	347.8	347.5	347.4	347.2	346.9
150°	356.4	356.6	356.9	357.1	357.4	357.4	357.1	356.9	356.6	356.4	356.1
152.5°	365.6	365.9	366.1	366.5	366.8	366.8	366.5	366.1	365.9	365.6	365.2
155°	378.0	378.2	378.4	378.7	378.9	378.8	378.4	378.0	377.6	377.2	377.0
157.5°	388.6	389.0	389.3	389.7	390.1	390.0	389.4	388.9	388.4	387.9	387.7
160°	395.1	395.5	395.8	396.1	396.4	396.3	395.9	395.4	394.9	394.4	394.3
162.5°	400.9	401.2	401.6	402.0	402.4	402.3	401.8	401.2	400.7	400.2	400.1
165°	408.4	408.8	409.2	409.6	410.0	410.0	409.4	408.8	408.3	407.7	407.7
167.5°	414.6	415.0	415.4	415.8	416.3	416.2	415.7	415.1	414.5	414.0	414.0
170°	417.8	418.3	418.7	419.2	419.7	419.6	419.1	418.5	418.0	417.4	417.5
172.5°	420.3	420.8	421.3	421.8	422.2	422.2	421.7	421.1	420.6	420.0	420.1
175°	423.2	423.7	424.1	424.6	425.1	425.0	424.5	423.9	423.3	422.8	422.9
177.5°	424.5	424.8	425.2	425.6	426.0	426.0	425.6	425.2	424.8	424.5	424.5
180°	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8
2.5°	789.9	788.0	786.8	782.6	778.8	775.0	773.8	774.3	769.1	764.1	762.0
5°	820.7	814.8	809.1	801.1	791.7	781.3	776.0	771.9	761.5	750.3	743.8
7.5°	848.3	839.8	828.9	814.0	800.2	783.9	773.5	764.4	749.2	733.3	723.7
10°	865.1	853.5	839.6	821.3	804.4	784.6	770.7	756.8	739.0	720.1	708.3
12.5°	879.5	864.0	850.2	826.7	806.8	782.0	765.5	745.9	727.2	704.7	693.1
15°	913.9	885.2	859.1	832.5	807.9	773.3	755.0	728.6	704.1	676.3	663.0
17.5°	940.4	908.2	867.2	833.4	804.7	766.4	739.4	707.9	678.8	647.1	629.0
20°	955.6	918.6	874.5	834.3	799.9	756.2	726.9	694.7	660.6	624.8	605.3
22.5°	964.6	925.7	882.1	830.8	790.5	747.9	711.1	675.7	641.2	602.6	582.1
25°	967.4	931.9	885.7	827.8	778.6	730.5	686.0	651.7	610.1	573.9	544.1
27.5°	953.3	927.9	883.5	822.2	765.0	708.6	659.2	620.3	576.2	537.1	507.0
30°	936.0	921.2	878.1	816.5	754.1	693.5	639.1	594.9	551.2	511.5	480.8
32.5°	909.3	906.1	868.2	808.5	742.5	674.3	618.0	573.4	524.9	485.9	456.6
35°	856.7	871.0	847.0	790.5	720.6	647.1	586.1	535.2	484.9	447.6	420.1
37.5°	786.4	821.7	815.4	764.1	691.2	617.3	550.0	496.9	448.9	411.3	384.3
40°	737.8	782.8	789.3	744.0	670.4	594.4	523.1	470.1	423.3	389.0	361.8
42.5°	685.8	738.3	756.2	719.9	647.7	570.2	498.9	444.1	397.8	364.4	340.3
45°	598.5	668.0	700.3	679.5	609.7	530.4	457.1	401.5	359.5	328.1	309.4
47.5°	516.9	592.9	636.3	628.9	567.5	489.0	416.5	363.1	322.3	297.2	280.5
50°	459.1	537.3	589.6	592.0	537.3	459.5	386.7	336.4	298.8	275.4	261.8
52.5°	409.0	483.5	540.7	553.2	503.4	428.6	359.9	309.9	276.8	255.3	243.1
55°	343.5	406.5	469.8	492.9	453.0	381.9	318.3	274.3	243.2	228.4	217.8
57.5°	285.6	338.1	396.6	422.1	397.4	336.7	277.0	238.8	213.6	200.6	192.4
60°	255.0	296.4	348.5	379.0	357.7	303.6	251.4	215.1	194.4	182.8	175.2
62.5°	226.6	263.3	307.3	335.2	323.6	272.5	225.9	193.8	175.9	165.1	159.5
65°	187.0	215.9	250.0	275.8	268.1	229.3	191.2	163.6	149.4	140.9	136.4
67.5°	153.9	174.9	198.5	221.0	214.8	187.4	156.8	135.3	124.7	117.3	114.7
70°	133.2	149.1	170.1	188.1	183.2	160.7	136.4	118.0	108.8	102.7	100.0
72.5°	113.3	126.4	142.4	157.2	153.8	135.1	114.9	101.0	94.0	88.2	86.0
75°	85.5	95.5	105.4	115.1	114.2	99.7	87.9	77.2	71.6	67.2	66.3
77.5°	63.1	68.8	75.4	81.2	79.6	71.3	62.0	55.9	51.8	48.8	48.3
80°	48.2	51.5	56.2	60.4	58.3	54.7	47.4	42.9	39.9	37.0	35.8
82.5°	34.9	38.3	41.0	43.3	41.7	38.4	33.8	30.8	29.1	27.0	26.5
85°	18.4	20.1	21.3	21.9	21.3	19.3	17.2	16.0	14.5	13.6	13.3
87.5°	8.9	8.6	8.2	8.4	7.5	7.3	6.2	5.3	5.2	5.1	4.9
90°	9.0	7.3	5.5	4.2	3.2	2.3	1.3	0.4	1.3	2.3	3.2
92.5°	10.6	10.1	9.7	9.2	8.5	7.8	7.1	6.4	7.1	7.8	8.5
95°	22.7	22.5	22.3	21.9	21.1	20.3	19.5	18.7	19.5	20.3	21.1
97.5°	38.0	37.7	37.4	36.9	36.2	35.5	34.8	34.1	34.8	35.5	36.2
100°	49.0	48.8	48.6	48.2	47.5	46.8	46.2	45.6	46.2	46.8	47.5
102.5°	60.7	60.4	60.1	59.7	59.2	58.6	58.1	57.7	58.1	58.6	59.2
105°	78.7	78.5	78.3	78.1	77.9	77.6	77.4	77.2	77.4	77.6	77.9
107.5°	98.4	98.4	98.4	98.2	97.9	97.5	97.2	96.8	97.2	97.5	97.9
110°	111.6	111.6	111.6	111.4	110.9	110.4	110.0	109.5	110.0	110.4	110.9



TEST NUMBER: P331496-927

CATALOG NUMBER: S122DIW-S485D435U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	125.2	125.3	125.4	125.2	124.7	124.2	123.7	123.3	123.7	124.2	124.7
115°	145.3	145.4	145.6	145.4	145.0	144.5	144.0	143.5	144.0	144.5	145.0
117.5°	165.6	166.0	166.4	166.4	165.7	165.1	164.5	163.8	164.5	165.1	165.7
120°	178.6	179.2	179.8	179.8	179.2	178.6	177.9	177.3	177.9	178.6	179.2
122.5°	191.9	192.4	192.9	192.7	191.9	191.2	190.4	189.6	190.4	191.2	191.9
125°	211.5	211.8	212.0	211.8	211.0	210.3	209.6	208.9	209.6	210.3	211.0
127.5°	231.0	231.3	231.6	231.2	230.4	229.4	228.5	227.6	228.5	229.4	230.4
130°	243.7	243.8	244.0	243.5	242.5	241.5	240.4	239.4	240.4	241.5	242.5
132.5°	256.5	256.4	256.4	256.0	255.2	254.3	253.4	252.6	253.4	254.3	255.2
135°	274.6	274.4	274.3	273.8	272.9	272.0	271.2	270.3	271.2	272.0	272.9
137.5°	292.6	292.4	292.2	291.7	291.0	290.3	289.5	288.8	289.5	290.3	291.0
140°	304.3	303.9	303.5	302.9	302.2	301.5	300.8	300.1	300.8	301.5	302.2
142.5°	315.4	315.1	314.9	314.4	313.7	313.0	312.3	311.6	312.3	313.0	313.7
145°	331.8	331.3	330.8	330.3	329.7	329.2	328.6	328.0	328.6	329.2	329.7
147.5°	346.6	346.3	345.9	345.5	344.8	344.1	343.4	342.8	343.4	344.1	344.8
150°	355.8	355.5	355.1	354.7	354.3	353.8	353.3	352.8	353.3	353.8	354.3
152.5°	364.8	364.4	364.1	363.6	363.1	362.7	362.2	361.7	362.2	362.7	363.1
155°	376.8	376.5	376.3	376.0	375.8	375.5	375.3	375.0	375.3	375.5	375.8
157.5°	387.5	387.4	387.2	387.1	387.0	386.8	386.7	386.5	386.7	386.8	387.0
160°	394.3	394.2	394.1	394.0	393.9	393.7	393.6	393.4	393.6	393.7	393.9
162.5°	400.1	400.0	399.9	399.8	399.7	399.7	399.7	399.7	399.7	399.7	399.7
165°	407.7	407.7	407.7	407.7	407.8	407.9	408.0	408.1	408.0	407.9	407.8
167.5°	414.0	414.0	414.0	414.2	414.4	414.6	414.9	415.1	414.9	414.6	414.4
170°	417.6	417.6	417.7	417.9	418.1	418.4	418.6	418.8	418.6	418.4	418.1
172.5°	420.2	420.3	420.3	420.5	420.7	421.0	421.2	421.4	421.2	421.0	420.7
175°	423.1	423.3	423.4	423.7	423.9	424.1	424.4	424.6	424.4	424.1	423.9
177.5°	424.7	424.8	424.9	425.1	425.3	425.5	425.7	425.9	425.7	425.5	425.3
180°	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3



TEST NUMBER: P331496-927

CATALOG NUMBER: S122DIW-S485D435U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8
2.5°	759.6	758.2	753.2	750.6	746.4	742.4	739.7	740.9	741.9	741.4	740.7
5°	737.8	732.2	723.7	716.2	710.9	701.2	697.0	695.0	693.2	691.1	689.0
7.5°	711.9	703.1	690.8	680.2	670.3	658.1	651.3	647.1	642.8	638.1	634.0
10°	693.5	681.0	668.0	653.2	641.4	630.4	620.7	614.2	608.2	602.6	598.5
12.5°	674.1	659.7	643.6	623.4	610.4	594.7	593.3	581.8	572.5	569.0	564.2
15°	643.2	623.1	602.6	578.7	568.3	554.1	545.3	536.4	528.4	522.8	521.3
17.5°	608.1	582.0	561.7	544.5	527.6	513.0	504.9	497.7	491.2	483.6	482.7
20°	581.3	558.9	536.7	521.6	504.1	489.3	479.3	472.1	466.5	462.1	458.3
22.5°	556.0	531.4	511.1	494.6	477.4	465.4	457.5	450.7	446.0	441.1	437.4
25°	515.4	496.1	474.0	455.3	441.1	433.4	426.9	421.0	418.0	414.8	410.7
27.5°	479.8	458.4	437.7	423.3	410.7	403.9	399.3	395.3	392.5	390.6	388.2
30°	454.7	433.1	416.8	402.7	392.3	385.5	382.5	380.2	376.9	375.7	374.5
32.5°	430.6	411.1	397.2	384.9	375.0	370.6	367.9	365.8	363.2	362.0	359.7
35°	396.4	380.2	366.5	359.7	351.7	347.9	345.9	342.9	340.6	339.4	339.1
37.5°	364.3	350.1	341.2	332.5	329.1	326.7	323.9	321.9	321.2	321.0	320.7
40°	343.5	331.9	323.9	316.9	315.4	311.8	309.4	307.7	307.7	308.0	307.7
42.5°	324.6	314.2	307.1	301.0	299.3	297.1	294.8	294.7	295.2	296.1	295.2
45°	295.9	288.4	283.4	280.4	277.2	275.1	274.8	275.8	276.0	276.3	277.2
47.5°	269.4	264.5	260.0	256.7	255.3	254.9	254.6	256.1	257.5	258.1	259.4
50°	253.8	248.2	244.4	242.3	241.1	240.5	241.1	242.9	244.1	245.6	246.4
52.5°	236.3	232.3	229.7	228.1	227.6	228.0	228.1	230.1	232.0	232.5	233.0
55°	212.1	209.1	208.6	205.9	207.1	206.8	208.3	209.5	211.2	213.0	213.3
57.5°	188.0	185.6	184.0	184.3	184.6	185.9	187.1	189.3	191.2	193.0	193.2
60°	171.9	170.7	169.8	169.8	170.4	172.2	173.6	175.7	176.9	178.1	179.0
62.5°	157.2	156.1	155.1	155.6	157.2	158.2	159.9	161.1	162.2	163.4	163.8
65°	134.0	133.4	134.4	134.9	135.2	136.7	138.8	139.7	140.9	141.4	143.5
67.5°	112.6	112.8	112.6	113.5	115.2	115.6	117.5	119.6	119.9	121.0	122.3
70°	98.2	98.8	99.4	100.0	101.5	102.0	103.5	104.4	105.6	106.5	107.4
72.5°	85.0	85.1	85.7	85.6	86.8	88.1	89.4	90.2	91.4	92.5	93.4
75°	65.4	65.4	66.0	66.3	67.7	69.2	68.9	69.6	70.7	71.9	72.5
77.5°	47.8	47.1	47.8	48.0	48.5	49.7	50.0	50.9	52.2	51.8	52.4
80°	36.4	35.5	36.4	36.7	36.7	38.2	38.2	38.7	39.6	38.7	39.6
82.5°	26.0	25.6	26.2	26.3	26.8	26.8	27.3	27.4	28.3	27.9	28.3
85°	13.0	12.8	13.0	12.8	13.0	13.3	13.3	13.0	13.0	13.6	12.8
87.5°	4.8	4.9	5.0	5.4	5.5	5.6	5.3	5.3	5.2	4.8	4.8
90°	4.2	5.5	7.3	9.0	10.8	12.6	12.4	12.3	12.1	12.0	11.9
92.5°	9.2	9.7	10.1	10.6	11.0	11.4	11.4	11.5	11.5	11.6	11.6
95°	21.9	22.3	22.5	22.7	22.8	23.0	23.0	23.0	23.0	23.0	22.9
97.5°	36.9	37.4	37.7	38.0	38.3	38.6	38.6	38.6	38.6	38.6	38.6
100°	48.2	48.6	48.8	49.0	49.3	49.5	49.5	49.5	49.5	49.5	49.5
102.5°	59.7	60.1	60.4	60.7	61.0	61.3	61.4	61.4	61.5	61.6	61.6
105°	78.1	78.3	78.5	78.7	78.8	79.0	79.1	79.3	79.5	79.6	79.7
107.5°	98.2	98.4	98.4	98.4	98.4	98.4	98.5	98.5	98.6	98.7	98.5
110°	111.4	111.6	111.6	111.6	111.6	111.6	111.6	111.6	111.6	111.6	111.5



TEST NUMBER: P331496-927

CATALOG NUMBER: S122DIW-S485D435U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	125.2	125.4	125.3	125.2	125.2	125.1	124.9	124.8	124.5	124.4	124.1
115°	145.4	145.6	145.4	145.3	145.1	145.0	144.9	144.8	144.7	144.7	144.5
117.5°	166.4	166.4	166.0	165.6	165.1	164.7	164.5	164.3	164.1	163.9	163.7
120°	179.8	179.8	179.2	178.6	177.9	177.3	177.3	177.3	177.3	177.3	177.2
122.5°	192.7	192.9	192.4	191.9	191.5	191.1	190.9	190.7	190.5	190.3	190.1
125°	211.8	212.0	211.8	211.5	211.3	211.0	210.8	210.6	210.3	210.1	209.9
127.5°	231.2	231.6	231.3	231.0	230.7	230.4	230.1	229.8	229.6	229.3	229.0
130°	243.5	244.0	243.8	243.7	243.5	243.4	243.2	243.0	242.9	242.7	242.5
132.5°	256.0	256.4	256.4	256.5	256.5	256.5	256.2	255.9	255.5	255.2	254.8
135°	273.8	274.3	274.4	274.6	274.7	274.9	274.8	274.7	274.6	274.6	274.4
137.5°	291.7	292.2	292.4	292.6	292.8	293.0	292.9	292.9	292.8	292.8	292.6
140°	302.9	303.5	303.9	304.3	304.7	305.1	305.1	305.1	305.1	305.1	304.9
142.5°	314.4	314.9	315.1	315.4	315.7	316.0	316.1	316.1	316.2	316.2	316.1
145°	330.3	330.8	331.3	331.8	332.2	332.7	332.8	332.9	333.0	333.0	332.9
147.5°	345.5	345.9	346.3	346.6	346.9	347.2	347.4	347.5	347.8	347.9	347.8
150°	354.7	355.1	355.5	355.8	356.1	356.4	356.6	356.9	357.1	357.4	357.4
152.5°	363.6	364.1	364.4	364.8	365.2	365.6	365.9	366.1	366.5	366.8	366.8
155°	376.0	376.3	376.5	376.8	377.0	377.2	377.6	378.0	378.4	378.8	378.9
157.5°	387.1	387.2	387.4	387.5	387.7	387.9	388.4	388.9	389.4	390.0	390.1
160°	394.0	394.1	394.2	394.3	394.3	394.4	394.9	395.4	395.9	396.3	396.4
162.5°	399.8	399.9	400.0	400.1	400.1	400.2	400.7	401.2	401.8	402.3	402.4
165°	407.7	407.7	407.7	407.7	407.7	407.7	408.3	408.8	409.4	410.0	410.0
167.5°	414.2	414.0	414.0	414.0	414.0	414.0	414.5	415.1	415.7	416.2	416.3
170°	417.9	417.7	417.6	417.6	417.5	417.4	418.0	418.5	419.1	419.6	419.7
172.5°	420.5	420.3	420.3	420.2	420.1	420.0	420.6	421.1	421.7	422.2	422.2
175°	423.7	423.4	423.3	423.1	422.9	422.8	423.3	423.9	424.5	425.0	425.1
177.5°	425.1	424.9	424.8	424.7	424.5	424.5	424.8	425.2	425.6	426.0	426.0
180°	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3



TEST NUMBER: P331496-927

CATALOG NUMBER: S122DIW-S485D435U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8
2.5°	738.3	737.8	737.8	735.7	737.8	737.8	738.3	740.7	741.4	741.9	740.9
5°	684.9	684.0	682.5	684.0	682.5	684.0	684.9	689.0	691.1	693.2	695.0
7.5°	632.1	628.5	628.0	624.5	628.0	628.5	632.1	634.0	638.1	642.8	647.1
10°	593.5	591.1	590.8	585.2	590.8	591.1	593.5	598.5	602.6	608.2	614.2
12.5°	564.1	558.4	559.6	556.3	559.6	558.4	564.1	564.2	569.0	572.5	581.8
15°	513.3	513.3	512.1	507.1	512.1	513.3	513.3	521.3	522.8	528.4	536.4
17.5°	476.8	476.2	473.3	474.8	473.3	476.2	476.8	482.7	483.6	491.2	497.7
20°	455.0	453.2	449.7	449.7	449.7	453.2	455.0	458.3	462.1	466.5	472.1
22.5°	434.4	434.3	430.6	431.7	430.6	434.3	434.4	437.4	441.1	446.0	450.7
25°	410.4	408.0	406.2	407.1	406.2	408.0	410.4	410.7	414.8	418.0	421.0
27.5°	387.5	386.2	386.1	383.7	386.1	386.2	387.5	388.2	390.6	392.5	395.3
30°	374.2	371.3	371.9	370.4	371.9	371.3	374.2	374.5	375.7	376.9	380.2
32.5°	359.1	358.1	357.4	356.2	357.4	358.1	359.1	359.7	362.0	363.2	365.8
35°	338.4	338.7	337.2	337.9	337.2	338.7	338.4	339.1	339.4	340.6	342.9
37.5°	320.4	321.4	320.7	320.8	320.7	321.4	320.4	320.7	321.0	321.2	321.9
40°	308.6	308.6	308.6	309.4	308.6	308.6	308.6	307.7	308.0	307.7	307.7
42.5°	297.2	296.8	296.3	296.2	296.3	296.8	297.2	295.2	296.1	295.2	294.7
45°	277.8	278.7	279.0	277.5	279.0	278.7	277.8	277.2	276.3	276.0	275.8
47.5°	260.2	260.3	260.2	261.5	260.2	260.3	260.2	259.4	258.1	257.5	256.1
50°	248.0	247.3	248.0	247.3	248.0	247.3	248.0	246.4	245.6	244.1	242.9
52.5°	234.9	235.0	234.6	234.6	234.6	235.0	234.9	233.0	232.5	232.0	230.1
55°	214.5	215.1	214.8	214.8	214.8	215.1	214.5	213.3	213.0	211.2	209.5
57.5°	193.4	193.9	194.3	193.0	194.3	193.9	193.4	193.2	193.0	191.2	189.3
60°	178.7	180.1	179.9	179.3	179.9	180.1	178.7	179.0	178.1	176.9	175.7
62.5°	165.2	165.7	165.6	165.6	165.6	165.7	165.2	163.8	163.4	162.2	161.1
65°	144.3	145.0	144.1	145.0	144.1	145.0	144.3	143.5	141.4	140.9	139.7
67.5°	121.9	122.2	122.8	123.2	122.8	122.2	121.9	122.3	121.0	119.9	119.6
70°	108.0	107.7	108.6	109.5	108.6	107.7	108.0	107.4	106.5	105.6	104.4
72.5°	93.3	94.0	93.6	94.3	93.6	94.0	93.3	93.4	92.5	91.4	90.2
75°	71.9	72.8	72.5	73.4	72.5	72.8	71.9	72.5	71.9	70.7	69.6
77.5°	52.0	52.0	52.0	52.4	52.0	52.0	52.0	52.4	51.8	52.2	50.9
80°	39.6	39.1	38.4	39.6	38.4	39.1	39.6	39.6	38.7	39.6	38.7
82.5°	27.6	28.0	27.3	27.3	27.3	28.0	27.6	28.3	27.9	28.3	27.4
85°	12.8	12.4	11.8	11.8	11.8	12.4	12.8	12.8	13.6	13.0	13.0
87.5°	4.8	4.5	4.5	4.4	4.5	4.5	4.8	4.8	4.8	5.2	5.3
90°	12.0	12.0	12.1	12.2	12.1	12.0	12.0	11.9	12.0	12.1	12.3
92.5°	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.5	11.5
95°	22.7	22.6	22.4	22.3	22.4	22.6	22.7	22.9	23.0	23.0	23.0
97.5°	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6
100°	49.4	49.4	49.3	49.2	49.3	49.4	49.4	49.5	49.5	49.5	49.5
102.5°	61.5	61.4	61.3	61.2	61.3	61.4	61.5	61.6	61.6	61.5	61.4
105°	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.6	79.5	79.3
107.5°	98.2	97.8	97.4	97.0	97.4	97.8	98.2	98.5	98.7	98.6	98.5
110°	111.2	111.0	110.7	110.5	110.7	111.0	111.2	111.5	111.6	111.6	111.6



TEST NUMBER: P331496-927

CATALOG NUMBER: S122DIW-S485D435U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	124.0	123.8	123.7	123.5	123.7	123.8	124.0	124.1	124.4	124.5	124.8
115°	144.3	144.0	143.8	143.5	143.8	144.0	144.3	144.5	144.7	144.7	144.8
117.5°	163.4	163.2	163.0	162.7	163.0	163.2	163.4	163.7	163.9	164.1	164.3
120°	177.0	176.7	176.5	176.3	176.5	176.7	177.0	177.2	177.3	177.3	177.3
122.5°	190.0	189.8	189.6	189.4	189.6	189.8	190.0	190.1	190.3	190.5	190.7
125°	209.8	209.8	209.7	209.6	209.7	209.8	209.8	209.9	210.1	210.3	210.6
127.5°	228.7	228.5	228.2	228.0	228.2	228.5	228.7	229.0	229.3	229.6	229.8
130°	242.2	241.9	241.5	241.2	241.5	241.9	242.2	242.5	242.7	242.9	243.0
132.5°	254.6	254.3	254.1	253.8	254.1	254.3	254.6	254.8	255.2	255.5	255.9
135°	274.2	273.9	273.7	273.5	273.7	273.9	274.2	274.4	274.6	274.6	274.7
137.5°	292.2	291.9	291.6	291.3	291.6	291.9	292.2	292.6	292.8	292.8	292.9
140°	304.6	304.3	304.0	303.6	304.0	304.3	304.6	304.9	305.1	305.1	305.1
142.5°	315.8	315.4	315.1	314.8	315.1	315.4	315.8	316.1	316.2	316.2	316.1
145°	332.6	332.2	331.9	331.6	331.9	332.2	332.6	332.9	333.0	333.0	332.9
147.5°	347.5	347.2	346.9	346.7	346.9	347.2	347.5	347.8	347.9	347.8	347.5
150°	357.1	356.9	356.6	356.4	356.6	356.9	357.1	357.4	357.4	357.1	356.9
152.5°	366.5	366.1	365.9	365.6	365.9	366.1	366.5	366.8	366.8	366.5	366.1
155°	378.7	378.4	378.2	378.0	378.2	378.4	378.7	378.9	378.8	378.4	378.0
157.5°	389.7	389.3	389.0	388.6	389.0	389.3	389.7	390.1	390.0	389.4	388.9
160°	396.1	395.8	395.5	395.1	395.5	395.8	396.1	396.4	396.3	395.9	395.4
162.5°	402.0	401.6	401.2	400.9	401.2	401.6	402.0	402.4	402.3	401.8	401.2
165°	409.6	409.2	408.8	408.4	408.8	409.2	409.6	410.0	410.0	409.4	408.8
167.5°	415.8	415.4	415.0	414.6	415.0	415.4	415.8	416.3	416.2	415.7	415.1
170°	419.2	418.7	418.3	417.8	418.3	418.7	419.2	419.7	419.6	419.1	418.5
172.5°	421.8	421.3	420.8	420.3	420.8	421.3	421.8	422.2	422.2	421.7	421.1
175°	424.6	424.1	423.7	423.2	423.7	424.1	424.6	425.1	425.0	424.5	423.9
177.5°	425.6	425.2	424.8	424.5	424.8	425.2	425.6	426.0	426.0	425.6	425.2
180°	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3



TEST NUMBER: P331496-927

CATALOG NUMBER: S122DIW-S485D435U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8
2.5°	739.7	742.4	746.4	750.6	753.2	758.2	759.6	762.0	764.1	769.1	774.3
5°	697.0	701.2	710.9	716.2	723.7	732.2	737.8	743.8	750.3	761.5	771.9
7.5°	651.3	658.1	670.3	680.2	690.8	703.1	711.9	723.7	733.3	749.2	764.4
10°	620.7	630.4	641.4	653.2	668.0	681.0	693.5	708.3	720.1	739.0	756.8
12.5°	593.3	594.7	610.4	623.4	643.6	659.7	674.1	693.1	704.7	727.2	745.9
15°	545.3	554.1	568.3	578.7	602.6	623.1	643.2	663.0	676.3	704.1	728.6
17.5°	504.9	513.0	527.6	544.5	561.7	582.0	608.1	629.0	647.1	678.8	707.9
20°	479.3	489.3	504.1	521.6	536.7	558.9	581.3	605.3	624.8	660.6	694.7
22.5°	457.5	465.4	477.4	494.6	511.1	531.4	556.0	582.1	602.6	641.2	675.7
25°	426.9	433.4	441.1	455.3	474.0	496.1	515.4	544.1	573.9	610.1	651.7
27.5°	399.3	403.9	410.7	423.3	437.7	458.4	479.8	507.0	537.1	576.2	620.3
30°	382.5	385.5	392.3	402.7	416.8	433.1	454.7	480.8	511.5	551.2	594.9
32.5°	367.9	370.6	375.0	384.9	397.2	411.1	430.6	456.6	485.9	524.9	573.4
35°	345.9	347.9	351.7	359.7	366.5	380.2	396.4	420.1	447.6	484.9	535.2
37.5°	323.9	326.7	329.1	332.5	341.2	350.1	364.3	384.3	411.3	448.9	496.9
40°	309.4	311.8	315.4	316.9	323.9	331.9	343.5	361.8	389.0	423.3	470.1
42.5°	294.8	297.1	299.3	301.0	307.1	314.2	324.6	340.3	364.4	397.8	444.1
45°	274.8	275.1	277.2	280.4	283.4	288.4	295.9	309.4	328.1	359.5	401.5
47.5°	254.6	254.9	255.3	256.7	260.0	264.5	269.4	280.5	297.2	322.3	363.1
50°	241.1	240.5	241.1	242.3	244.4	248.2	253.8	261.8	275.4	298.8	336.4
52.5°	228.1	228.0	227.6	228.1	229.7	232.3	236.3	243.1	255.3	276.8	309.9
55°	208.3	206.8	207.1	205.9	208.6	209.1	212.1	217.8	228.4	243.2	274.3
57.5°	187.1	185.9	184.6	184.3	184.0	185.6	188.0	192.4	200.6	213.6	238.8
60°	173.6	172.2	170.4	169.8	169.8	170.7	171.9	175.2	182.8	194.4	215.1
62.5°	159.9	158.2	157.2	155.6	155.1	156.1	157.2	159.5	165.1	175.9	193.8
65°	138.8	136.7	135.2	134.9	134.4	133.4	134.0	136.4	140.9	149.4	163.6
67.5°	117.5	115.6	115.2	113.5	112.6	112.8	112.6	114.7	117.3	124.7	135.3
70°	103.5	102.0	101.5	100.0	99.4	98.8	98.2	100.0	102.7	108.8	118.0
72.5°	89.4	88.1	86.8	85.6	85.7	85.1	85.0	86.0	88.2	94.0	101.0
75°	68.9	69.2	67.7	66.3	66.0	65.4	65.4	66.3	67.2	71.6	77.2
77.5°	50.0	49.7	48.5	48.0	47.8	47.1	47.8	48.3	48.8	51.8	55.9
80°	38.2	38.2	36.7	36.7	36.4	35.5	36.4	35.8	37.0	39.9	42.9
82.5°	27.3	26.8	26.8	26.3	26.2	25.6	26.0	26.5	27.0	29.1	30.8
85°	13.3	13.3	13.0	12.8	13.0	12.8	13.0	13.3	13.6	14.5	16.0
87.5°	5.3	5.6	5.5	5.4	5.0	4.9	4.8	4.9	5.1	5.2	5.3
90°	12.4	12.6	10.8	9.0	7.3	5.5	4.2	3.2	2.3	1.3	0.4
92.5°	11.4	11.4	11.0	10.6	10.1	9.7	9.2	8.5	7.8	7.1	6.4
95°	23.0	23.0	22.8	22.7	22.5	22.3	21.9	21.1	20.3	19.5	18.7
97.5°	38.6	38.6	38.3	38.0	37.7	37.4	36.9	36.2	35.5	34.8	34.1
100°	49.5	49.5	49.3	49.0	48.8	48.6	48.2	47.5	46.8	46.2	45.6
102.5°	61.4	61.3	61.0	60.7	60.4	60.1	59.7	59.2	58.6	58.1	57.7
105°	79.1	79.0	78.8	78.7	78.5	78.3	78.1	77.9	77.6	77.4	77.2
107.5°	98.5	98.4	98.4	98.4	98.4	98.4	98.2	97.9	97.5	97.2	96.8
110°	111.6	111.6	111.6	111.6	111.6	111.6	111.4	110.9	110.4	110.0	109.5



TEST NUMBER: P331496-927

CATALOG NUMBER: S122DIW-S485D435U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	124.9	125.1	125.2	125.2	125.3	125.4	125.2	124.7	124.2	123.7	123.3
115°	144.9	145.0	145.1	145.3	145.4	145.6	145.4	145.0	144.5	144.0	143.5
117.5°	164.5	164.7	165.1	165.6	166.0	166.4	166.4	165.7	165.1	164.5	163.8
120°	177.3	177.3	177.9	178.6	179.2	179.8	179.8	179.2	178.6	177.9	177.3
122.5°	190.9	191.1	191.5	191.9	192.4	192.9	192.7	191.9	191.2	190.4	189.6
125°	210.8	211.0	211.3	211.5	211.8	212.0	211.8	211.0	210.3	209.6	208.9
127.5°	230.1	230.4	230.7	231.0	231.3	231.6	231.2	230.4	229.4	228.5	227.6
130°	243.2	243.4	243.5	243.7	243.8	244.0	243.5	242.5	241.5	240.4	239.4
132.5°	256.2	256.5	256.5	256.5	256.4	256.4	256.0	255.2	254.3	253.4	252.6
135°	274.8	274.9	274.7	274.6	274.4	274.3	273.8	272.9	272.0	271.2	270.3
137.5°	292.9	293.0	292.8	292.6	292.4	292.2	291.7	291.0	290.3	289.5	288.8
140°	305.1	305.1	304.7	304.3	303.9	303.5	302.9	302.2	301.5	300.8	300.1
142.5°	316.1	316.0	315.7	315.4	315.1	314.9	314.4	313.7	313.0	312.3	311.6
145°	332.8	332.7	332.2	331.8	331.3	330.8	330.3	329.7	329.2	328.6	328.0
147.5°	347.4	347.2	346.9	346.6	346.3	345.9	345.5	344.8	344.1	343.4	342.8
150°	356.6	356.4	356.1	355.8	355.5	355.1	354.7	354.3	353.8	353.3	352.8
152.5°	365.9	365.6	365.2	364.8	364.4	364.1	363.6	363.1	362.7	362.2	361.7
155°	377.6	377.2	377.0	376.8	376.5	376.3	376.0	375.8	375.5	375.3	375.0
157.5°	388.4	387.9	387.7	387.5	387.4	387.2	387.1	387.0	386.8	386.7	386.5
160°	394.9	394.4	394.3	394.3	394.2	394.1	394.0	393.9	393.7	393.6	393.4
162.5°	400.7	400.2	400.1	400.1	400.0	399.9	399.8	399.7	399.7	399.7	399.7
165°	408.3	407.7	407.7	407.7	407.7	407.7	407.7	407.8	407.9	408.0	408.1
167.5°	414.5	414.0	414.0	414.0	414.0	414.0	414.2	414.4	414.6	414.9	415.1
170°	418.0	417.4	417.5	417.6	417.6	417.7	417.9	418.1	418.4	418.6	418.8
172.5°	420.6	420.0	420.1	420.2	420.3	420.3	420.5	420.7	421.0	421.2	421.4
175°	423.3	422.8	422.9	423.1	423.3	423.4	423.7	423.9	424.1	424.4	424.6
177.5°	424.8	424.5	424.5	424.7	424.8	424.9	425.1	425.3	425.5	425.7	425.9
180°	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3



TEST NUMBER: P331496-927

CATALOG NUMBER: S122DIW-S485D435U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8	769.8
2.5°	773.8	775.0	778.8	782.6	786.8	788.0	789.9	788.2	787.7	792.3	795.6
5°	776.0	781.3	791.7	801.1	809.1	814.8	820.7	823.1	827.5	833.7	841.4
7.5°	773.5	783.9	800.2	814.0	828.9	839.8	848.3	855.5	864.2	876.0	888.8
10°	770.7	784.6	804.4	821.3	839.6	853.5	865.1	876.3	889.3	905.6	922.4
12.5°	765.5	782.0	806.8	826.7	850.2	864.0	879.5	903.7	917.7	940.4	964.1
15°	755.0	773.3	807.9	832.5	859.1	885.2	913.9	936.9	960.0	973.4	1006.8
17.5°	739.4	766.4	804.7	833.4	867.2	908.2	940.4	966.6	993.2	1014.8	1031.6
20°	726.9	756.2	799.9	834.3	874.5	918.6	955.6	982.2	1005.3	1023.3	1033.7
22.5°	711.1	747.9	790.5	830.8	882.1	925.7	964.6	985.6	1004.8	1013.6	1017.6
25°	686.0	730.5	778.6	827.8	885.7	931.9	967.4	980.2	985.8	977.2	963.0
27.5°	659.2	708.6	765.0	822.2	883.5	927.9	953.3	951.3	941.8	914.0	891.8
30°	639.1	693.5	754.1	816.5	878.1	921.2	936.0	921.2	899.7	868.6	836.9
32.5°	618.0	674.3	742.5	808.5	868.2	906.1	909.3	883.8	850.4	815.2	775.6
35°	586.1	647.1	720.6	790.5	847.0	871.0	856.7	811.8	772.1	724.0	670.1
37.5°	550.0	617.3	691.2	764.1	815.4	821.7	786.4	739.0	683.1	626.5	563.1
40°	523.1	594.4	670.4	744.0	789.3	782.8	737.8	685.8	619.2	550.0	491.1
42.5°	498.9	570.2	647.7	719.9	756.2	738.3	685.8	621.9	550.3	485.1	431.3
45°	457.1	530.4	609.7	679.5	700.3	668.0	598.5	527.5	457.1	402.7	360.0
47.5°	416.5	489.0	567.5	628.9	636.3	592.9	516.9	443.9	383.3	339.0	309.0
50°	386.7	459.5	537.3	592.0	589.6	537.3	459.1	389.6	339.1	303.2	283.1
52.5°	359.9	428.6	503.4	553.2	540.7	483.5	409.0	347.3	305.7	277.7	259.4
55°	318.3	381.9	453.0	492.9	469.8	406.5	343.5	293.7	263.0	242.0	227.8
57.5°	277.0	336.7	397.4	422.1	396.6	338.1	285.6	249.5	226.4	210.8	201.6
60°	251.4	303.6	357.7	379.0	348.5	296.4	255.0	222.8	204.1	191.4	183.2
62.5°	225.9	272.5	323.6	335.2	307.3	263.3	226.6	199.8	184.5	173.2	165.4
65°	191.2	229.3	268.1	275.8	250.0	215.9	187.0	169.5	155.9	147.7	141.4
67.5°	156.8	187.4	214.8	221.0	198.5	174.9	153.9	138.8	129.5	122.6	117.4
70°	136.4	160.7	183.2	188.1	170.1	149.1	133.2	121.0	112.7	106.8	101.8
72.5°	114.9	135.1	153.8	157.2	142.4	126.4	113.3	103.7	96.4	92.6	87.8
75°	87.9	99.7	114.2	115.1	105.4	95.5	85.5	79.3	75.4	70.7	68.4
77.5°	62.0	71.3	79.6	81.2	75.4	68.8	63.1	58.2	55.0	52.8	50.6
80°	47.4	54.7	58.3	60.4	56.2	51.5	48.2	45.0	42.9	41.4	39.9
82.5°	33.8	38.4	41.7	43.3	41.0	38.3	34.9	33.1	31.5	30.3	29.8
85°	17.2	19.3	21.3	21.9	21.3	20.1	18.4	18.4	17.4	17.2	17.2
87.5°	6.2	7.3	7.5	8.4	8.2	8.6	8.9	9.0	9.1	8.9	8.6
90°	1.3	2.3	3.2	4.2	5.5	7.3	9.0	10.8	12.6	12.4	12.3
92.5°	7.1	7.8	8.5	9.2	9.7	10.1	10.6	11.0	11.4	11.4	11.5
95°	19.5	20.3	21.1	21.9	22.3	22.5	22.7	22.8	23.0	23.0	23.0
97.5°	34.8	35.5	36.2	36.9	37.4	37.7	38.0	38.3	38.6	38.6	38.6
100°	46.2	46.8	47.5	48.2	48.6	48.8	49.0	49.3	49.5	49.5	49.5
102.5°	58.1	58.6	59.2	59.7	60.1	60.4	60.7	61.0	61.3	61.4	61.4
105°	77.4	77.6	77.9	78.1	78.3	78.5	78.7	78.8	79.0	79.1	79.3
107.5°	97.2	97.5	97.9	98.2	98.4	98.4	98.4	98.4	98.4	98.5	98.5
110°	110.0	110.4	110.9	111.4	111.6	111.6	111.6	111.6	111.6	111.6	111.6



TEST NUMBER: P331496-927

CATALOG NUMBER: S122DIW-S485D435U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	123.7	124.2	124.7	125.2	125.4	125.3	125.2	125.2	125.1	124.9	124.8
115°	144.0	144.5	145.0	145.4	145.6	145.4	145.3	145.1	145.0	144.9	144.8
117.5°	164.5	165.1	165.7	166.4	166.4	166.0	165.6	165.1	164.7	164.5	164.3
120°	177.9	178.6	179.2	179.8	179.8	179.2	178.6	177.9	177.3	177.3	177.3
122.5°	190.4	191.2	191.9	192.7	192.9	192.4	191.9	191.5	191.1	190.9	190.7
125°	209.6	210.3	211.0	211.8	212.0	211.8	211.5	211.3	211.0	210.8	210.6
127.5°	228.5	229.4	230.4	231.2	231.6	231.3	231.0	230.7	230.4	230.1	229.8
130°	240.4	241.5	242.5	243.5	244.0	243.8	243.7	243.5	243.4	243.2	243.0
132.5°	253.4	254.3	255.2	256.0	256.4	256.4	256.5	256.5	256.5	256.2	255.9
135°	271.2	272.0	272.9	273.8	274.3	274.4	274.6	274.7	274.9	274.8	274.7
137.5°	289.5	290.3	291.0	291.7	292.2	292.4	292.6	292.8	293.0	292.9	292.9
140°	300.8	301.5	302.2	302.9	303.5	303.9	304.3	304.7	305.1	305.1	305.1
142.5°	312.3	313.0	313.7	314.4	314.9	315.1	315.4	315.7	316.0	316.1	316.1
145°	328.6	329.2	329.7	330.3	330.8	331.3	331.8	332.2	332.7	332.8	332.9
147.5°	343.4	344.1	344.8	345.5	345.9	346.3	346.6	346.9	347.2	347.4	347.5
150°	353.3	353.8	354.3	354.7	355.1	355.5	355.8	356.1	356.4	356.6	356.9
152.5°	362.2	362.7	363.1	363.6	364.1	364.4	364.8	365.2	365.6	365.9	366.1
155°	375.3	375.5	375.8	376.0	376.3	376.5	376.8	377.0	377.2	377.6	378.0
157.5°	386.7	386.8	387.0	387.1	387.2	387.4	387.5	387.7	387.9	388.4	388.9
160°	393.6	393.7	393.9	394.0	394.1	394.2	394.3	394.3	394.4	394.9	395.4
162.5°	399.7	399.7	399.7	399.8	399.9	400.0	400.1	400.1	400.2	400.7	401.2
165°	408.0	407.9	407.8	407.7	407.7	407.7	407.7	407.7	407.7	408.3	408.8
167.5°	414.9	414.6	414.4	414.2	414.0	414.0	414.0	414.0	414.0	414.5	415.1
170°	418.6	418.4	418.1	417.9	417.7	417.6	417.6	417.5	417.4	418.0	418.5
172.5°	421.2	421.0	420.7	420.5	420.3	420.3	420.2	420.1	420.0	420.6	421.1
175°	424.4	424.1	423.9	423.7	423.4	423.3	423.1	422.9	422.8	423.3	423.9
177.5°	425.7	425.5	425.3	425.1	424.9	424.8	424.7	424.5	424.5	424.8	425.2
180°	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3	425.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	769.8	769.8	769.8	769.8	769.8	769.8	769.8
2.5°	798.4	801.8	801.8	802.2	806.0	805.6	805.3
5°	849.7	854.7	855.3	860.6	864.2	863.0	859.8
7.5°	898.0	907.4	914.5	918.5	923.1	926.0	924.7
10°	936.4	950.0	958.2	963.8	970.7	975.7	973.9
12.5°	971.1	987.4	998.7	1008.4	1009.2	1015.7	1011.3
15°	1025.4	1042.6	1044.3	1051.5	1057.1	1056.5	1056.8
17.5°	1043.3	1048.8	1050.0	1050.1	1050.2	1048.1	1043.6
20°	1037.0	1034.9	1029.8	1026.0	1019.2	1018.3	1012.4
22.5°	1006.6	1000.1	987.5	979.1	968.5	965.7	964.1
25°	947.0	932.5	912.4	893.2	887.8	877.5	880.4
27.5°	865.1	842.6	820.8	805.2	791.1	775.5	780.0
30°	807.6	782.2	751.5	727.8	712.7	697.9	695.2
32.5°	739.0	701.7	667.4	646.6	623.4	614.1	603.9
35°	620.7	584.3	550.2	521.0	504.1	491.1	479.3
37.5°	514.2	472.4	444.9	421.2	409.0	401.6	403.4
40°	448.2	411.5	391.4	373.4	362.1	356.8	358.0
42.5°	394.7	367.3	350.7	338.3	330.4	327.4	326.7
45°	334.0	318.6	305.0	297.9	294.1	290.8	288.8
47.5°	292.6	280.0	272.4	268.2	264.7	261.5	261.4
50°	267.8	259.4	254.1	249.7	247.0	244.6	246.8
52.5°	248.8	241.2	235.9	232.0	230.9	228.8	228.8
55°	220.7	214.8	211.0	207.4	205.7	204.5	203.0
57.5°	195.1	189.5	186.0	183.7	180.4	179.2	178.7
60°	176.9	172.5	168.9	166.0	164.5	162.2	162.2
62.5°	160.1	155.7	152.3	150.1	147.7	146.7	146.9
65°	135.8	132.2	129.0	126.6	126.0	124.3	124.8
67.5°	113.4	111.1	107.7	106.3	105.2	104.3	103.5
70°	98.5	96.2	94.3	92.6	91.7	91.7	91.7
72.5°	86.0	83.1	82.1	79.9	80.3	79.4	78.4
75°	66.5	64.8	63.9	63.0	61.6	61.6	61.6
77.5°	49.0	48.5	47.4	46.4	46.1	45.8	45.9
80°	37.9	37.5	37.0	37.0	36.4	36.1	35.5
82.5°	29.1	28.4	28.0	27.7	27.6	27.6	27.5
85°	16.6	16.0	16.0	16.2	15.7	15.7	16.0
87.5°	8.8	8.8	8.6	8.6	8.8	8.6	8.6
90°	12.1	12.0	11.9	12.0	12.0	12.1	12.2
92.5°	11.5	11.6	11.6	11.6	11.6	11.6	11.6
95°	23.0	23.0	22.9	22.7	22.6	22.4	22.3
97.5°	38.6	38.6	38.6	38.6	38.6	38.6	38.6
100°	49.5	49.5	49.5	49.4	49.4	49.3	49.2
102.5°	61.5	61.6	61.6	61.5	61.4	61.3	61.2
105°	79.5	79.6	79.7	79.7	79.7	79.7	79.7
107.5°	98.6	98.7	98.5	98.2	97.8	97.4	97.0
110°	111.6	111.6	111.5	111.2	111.0	110.7	110.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	124.5	124.4	124.1	124.0	123.8	123.7	123.5
115°	144.7	144.7	144.5	144.3	144.0	143.8	143.5
117.5°	164.1	163.9	163.7	163.4	163.2	163.0	162.7
120°	177.3	177.3	177.2	177.0	176.7	176.5	176.3
122.5°	190.5	190.3	190.1	190.0	189.8	189.6	189.4
125°	210.3	210.1	209.9	209.8	209.8	209.7	209.6
127.5°	229.6	229.3	229.0	228.7	228.5	228.2	228.0
130°	242.9	242.7	242.5	242.2	241.9	241.5	241.2
132.5°	255.5	255.2	254.8	254.6	254.3	254.1	253.8
135°	274.6	274.6	274.4	274.2	273.9	273.7	273.5
137.5°	292.8	292.8	292.6	292.2	291.9	291.6	291.3
140°	305.1	305.1	304.9	304.6	304.3	304.0	303.6
142.5°	316.2	316.2	316.1	315.8	315.4	315.1	314.8
145°	333.0	333.0	332.9	332.6	332.2	331.9	331.6
147.5°	347.8	347.9	347.8	347.5	347.2	346.9	346.7
150°	357.1	357.4	357.4	357.1	356.9	356.6	356.4
152.5°	366.5	366.8	366.8	366.5	366.1	365.9	365.6
155°	378.4	378.8	378.9	378.7	378.4	378.2	378.0
157.5°	389.4	390.0	390.1	389.7	389.3	389.0	388.6
160°	395.9	396.3	396.4	396.1	395.8	395.5	395.1
162.5°	401.8	402.3	402.4	402.0	401.6	401.2	400.9
165°	409.4	410.0	410.0	409.6	409.2	408.8	408.4
167.5°	415.7	416.2	416.3	415.8	415.4	415.0	414.6
170°	419.1	419.6	419.7	419.2	418.7	418.3	417.8
172.5°	421.7	422.2	422.2	421.8	421.3	420.8	420.3
175°	424.5	425.0	425.1	424.6	424.1	423.7	423.2
177.5°	425.6	426.0	426.0	425.6	425.2	424.8	424.5
180°	425.3	425.3	425.3	425.3	425.3	425.3	425.3

(END OF REPORT)