

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: P331287-927

Luminaire Tested: **S122DIP-S485D330U927-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331287-927  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122DIP-S485D330U927-4F0-1E-UDD-A4  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 330 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

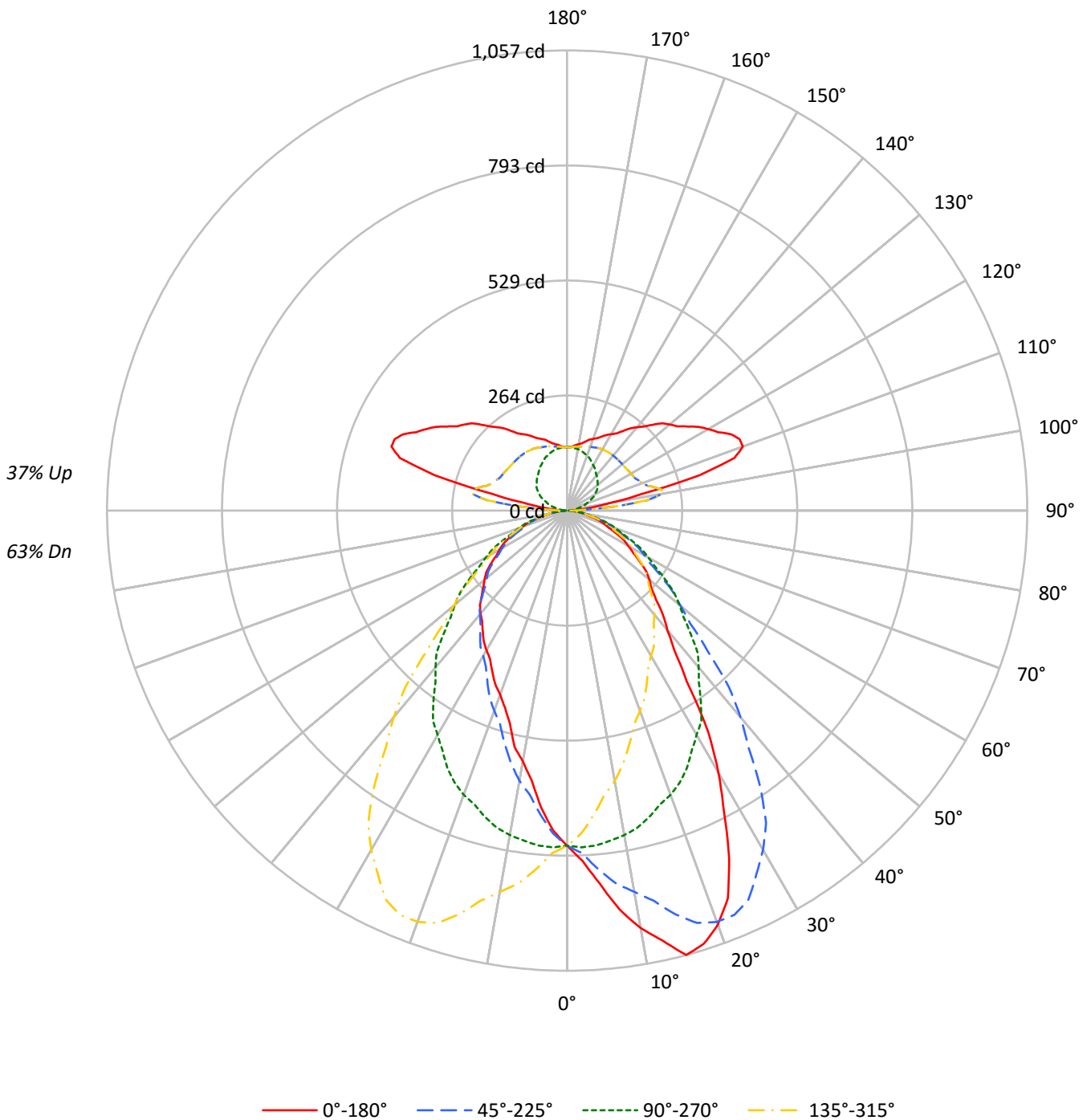
Lumens per Lamp: N/A  
Luminaire Lumens: 2712.5 lumens  
Efficiency: N/A  
Efficacy: 98.6 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Direct  
  
Input Watts (W): 27.5  
Input Voltage (V): 120  
Input Current (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	110	110	110	110	103	103	103	103	90	90	90	79	79	79	68	68	68	63
1	101	97	93	90	95	91	88	85	80	78	76	70	68	67	61	60	58	54
2	93	85	79	74	87	80	75	71	71	67	64	62	59	57	54	52	50	46
3	85	76	69	63	79	71	65	60	63	58	54	56	52	49	49	46	43	40
4	78	67	60	54	73	64	57	51	57	51	47	50	46	42	44	41	38	35
5	72	60	52	47	67	57	50	45	51	45	41	45	41	37	40	36	33	31
6	67	55	47	41	62	52	44	39	46	40	36	41	36	33	36	33	30	27
7	62	50	42	36	58	47	40	35	42	36	32	38	33	29	33	30	27	24
8	57	45	38	32	54	43	36	31	39	33	29	35	30	26	31	27	24	22
9	54	42	34	29	50	39	33	28	36	30	26	32	27	24	29	25	22	20
10	50	38	31	26	47	36	30	25	33	27	24	30	25	22	27	23	20	18

**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	2.7
10°-20°	213.1	7.9
20°-30°	309.3	11.4
30°-40°	326.4	12.0
40°-50°	289.0	10.7
50°-60°	230.6	8.5
60°-70°	156.8	5.8
70°-80°	80.4	3.0
80°-90°	20.7	0.8
90°-100°	58.2	2.1
100°-110°	197.5	7.3
110°-120°	209.8	7.7
120°-130°	172.7	6.4
130°-140°	138.7	5.1
140°-150°	104.8	3.9
150°-160°	73.7	2.7
160°-170°	43.4	1.6
170°-180°	14.1	0.5
0°-30°	595.8	22.0
0°-40°	922.2	34.0
0°-60°	1441.8	53.2
0°-90°	1699.6	62.7
90°-120°	465.5	17.2
90°-150°	881.7	32.5
90°-180°	1013.0	37.3
0°-180°	2712.5	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°	9	0	9	0	9	6
95°	32	10	32	10	32	41
105°	315	34	315	34	315	305
115°	415	60	415	60	415	406
125°	337	84	337	84	337	304
135°	279	98	279	98	279	217
145°	223	112	223	112	223	142
155°	187	128	187	128	187	87
165°	164	139	164	139	164	47
175°	148	145	148	145	148	14
180°	146	146	146	146	146	



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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°	8.0	8.0	8.2	8.0	8.0	8.2	8.1	7.9	8.2	8.6	8.7
90°	9.3	9.3	9.3	9.3	9.3	9.0	8.4	9.0	9.3	9.5	9.3
92.5°	15.5	15.9	15.8	16.6	16.9	18.6	20.9	24.4	30.7	36.4	35.9
95°	31.9	31.6	32.5	34.7	38.3	44.5	56.2	73.4	96.0	109.7	97.1
97.5°	62.8	65.2	69.2	76.1	89.5	109.7	140.0	171.1	196.5	187.3	141.1
100°	100.2	105.3	113.4	125.4	148.6	182.5	220.9	255.6	261.4	221.1	152.3
102.5°	176.3	183.2	193.3	213.8	239.1	275.0	303.0	310.9	285.6	222.2	148.0
105°	315.4	319.3	331.4	348.7	366.1	375.3	371.7	340.1	281.9	207.4	139.7
107.5°	403.0	408.1	410.6	411.5	409.3	395.8	366.7	319.0	257.3	191.5	135.5
110°	429.4	429.7	427.1	421.8	409.8	386.8	351.0	300.9	241.9	183.9	134.7



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	428.9	427.4	422.6	413.8	397.0	370.7	332.4	284.3	231.1	179.0	134.8
115°	415.1	412.6	405.3	392.4	372.6	343.7	307.0	264.0	217.8	173.6	136.0
117.5°	390.4	388.2	380.6	367.0	346.7	319.7	286.5	248.6	209.4	170.9	138.1
120°	374.5	371.7	363.6	350.5	330.8	305.4	275.7	241.0	204.9	169.4	139.4
122.5°	357.9	355.6	348.4	335.4	317.8	294.9	266.7	235.0	201.1	168.4	140.9
125°	336.8	334.5	327.5	316.9	300.6	279.6	255.0	226.2	195.7	166.8	143.3
127.5°	318.1	316.3	310.3	300.3	286.1	266.8	243.6	217.5	190.6	165.9	145.7
130°	307.6	305.4	299.8	290.3	276.6	258.1	236.0	211.9	187.3	165.4	147.5
132.5°	296.7	294.6	289.5	280.0	266.5	249.1	228.8	206.5	184.6	165.2	149.3
135°	279.1	278.0	272.9	263.6	251.6	236.0	217.5	199.0	180.8	164.9	151.5
137.5°	261.8	260.2	255.7	247.8	236.8	223.2	208.5	193.1	178.2	164.8	153.4
140°	249.9	248.3	244.1	236.8	227.8	215.6	202.6	189.2	176.6	164.6	154.2
142.5°	238.1	237.7	234.0	227.4	218.9	208.6	197.5	186.1	175.1	164.6	154.9
145°	222.8	222.0	219.2	214.4	207.7	199.6	190.9	181.6	173.0	164.0	155.6
147.5°	210.0	209.5	207.6	203.7	198.2	192.3	185.5	178.2	170.9	163.0	155.8
150°	202.4	202.1	200.4	197.0	192.8	187.8	182.0	175.8	169.1	162.3	155.6
152.5°	195.9	195.8	194.6	191.7	188.4	184.0	179.0	173.3	167.5	161.2	155.2
155°	187.3	187.8	186.7	184.7	181.6	178.6	174.4	169.9	164.6	159.2	154.5
157.5°	179.9	179.9	179.4	177.8	175.6	173.2	169.7	166.0	161.8	157.2	153.2
160°	175.2	175.2	174.9	173.6	171.6	169.6	166.5	163.4	159.8	155.9	152.6
162.5°	170.7	171.0	170.7	169.8	167.8	166.3	163.7	161.0	158.0	154.8	151.9
165°	164.3	164.6	164.6	163.4	162.3	161.2	159.2	157.3	155.0	152.6	150.6
167.5°	158.4	158.7	158.8	158.1	157.6	156.6	155.3	153.8	152.2	150.6	149.3
170°	154.8	155.3	155.6	154.8	154.5	153.9	152.8	152.0	150.6	149.5	148.6
172.5°	151.9	152.2	152.5	152.1	151.8	151.5	150.6	150.0	149.0	148.1	147.7
175°	148.1	148.6	148.9	148.6	148.6	148.4	148.1	147.8	146.9	146.6	146.4
177.5°	145.8	146.2	146.5	146.5	146.5	146.5	146.2	146.2	145.8	145.5	145.8
180°	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5



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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°	8.6	8.2	7.9	8.2	7.4	7.3	6.2	5.2	5.2	5.1	4.8
90°	7.5	5.6	4.2	3.3	2.8	2.2	1.1	0.3	1.1	2.2	2.8
92.5°	28.0	19.0	12.7	10.1	8.2	7.0	4.9	3.4	4.9	7.0	8.2
95°	64.6	40.3	27.4	20.7	16.2	13.7	10.9	9.8	10.9	13.7	16.2
97.5°	87.1	53.2	37.0	29.4	24.2	20.4	17.4	15.9	17.4	20.4	24.2
100°	91.8	57.7	42.9	35.0	29.4	24.9	22.4	21.5	22.4	24.9	29.4
102.5°	92.1	61.7	48.0	40.2	34.3	29.9	27.3	26.7	27.3	29.9	34.3
105°	93.5	68.6	55.5	47.6	41.4	37.2	35.3	34.1	35.3	37.2	41.4
107.5°	97.4	75.7	62.9	55.0	48.9	45.0	43.1	42.2	43.1	45.0	48.9
110°	100.4	80.3	68.0	59.9	54.0	50.4	48.7	47.6	48.7	50.4	54.0





TEST NUMBER: P331287-927

CATALOG NUMBER: S122DIP-S485D330U927-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	103.9	84.8	73.0	64.6	58.9	55.5	53.6	52.5	53.6	55.5	58.9
115°	108.8	91.8	79.8	72.2	66.6	63.3	61.6	60.2	61.6	63.3	66.6
117.5°	114.2	98.2	87.1	79.3	73.9	70.9	69.2	68.1	69.2	70.9	73.9
120°	117.9	102.7	91.8	84.0	78.3	75.9	74.1	73.0	74.1	75.9	78.3
122.5°	121.0	106.9	96.7	88.6	83.1	80.3	78.7	77.8	78.7	80.3	83.1
125°	126.0	113.4	103.3	95.5	89.8	86.5	84.8	84.0	84.8	86.5	89.8
127.5°	130.6	119.3	109.5	101.4	96.1	92.4	90.0	88.9	90.0	92.4	96.1
130°	133.5	122.9	113.0	105.3	99.7	95.7	92.9	91.8	92.9	95.7	99.7
132.5°	136.4	126.0	116.7	108.8	103.0	98.9	95.9	94.5	95.9	98.9	103.0
135°	140.2	130.5	121.4	113.7	107.2	103.0	99.7	98.5	99.7	103.0	107.2
137.5°	143.1	134.0	125.2	117.9	111.5	107.0	103.7	102.3	103.7	107.0	111.5
140°	144.7	136.0	127.6	120.3	114.2	109.7	106.4	105.3	106.4	109.7	114.2
142.5°	146.1	137.6	129.4	122.6	116.7	112.2	109.1	108.1	109.1	112.2	116.7
145°	147.8	140.0	132.4	126.3	120.6	116.5	113.7	112.5	113.7	116.5	120.6
147.5°	148.8	141.9	134.8	129.3	124.6	120.7	118.0	117.2	118.0	120.7	124.6
150°	149.2	142.8	136.3	131.3	127.1	123.4	121.2	120.3	121.2	123.4	127.1
152.5°	149.4	143.6	137.8	133.3	129.3	126.1	123.9	123.5	123.9	126.1	129.3
155°	149.7	145.0	140.2	136.0	132.9	129.8	128.2	127.9	128.2	129.8	132.9
157.5°	149.7	145.9	141.9	138.4	135.9	133.2	131.9	131.6	131.9	133.2	135.9
160°	149.7	146.4	143.1	140.0	137.7	135.5	134.4	134.0	134.4	135.5	137.7
162.5°	149.5	146.6	143.7	141.3	139.3	137.5	136.3	136.6	136.3	137.5	139.3
165°	148.9	146.9	144.4	142.8	141.3	139.7	139.1	139.4	139.1	139.7	141.3
167.5°	148.5	146.9	145.0	144.0	143.0	141.9	141.4	141.7	141.4	141.9	143.0
170°	148.1	146.6	145.3	144.4	143.9	143.1	142.8	143.3	142.8	143.1	143.9
172.5°	147.4	146.5	145.5	144.9	144.6	143.7	143.9	144.2	143.9	143.7	144.6
175°	146.6	146.1	145.5	145.3	145.3	144.7	145.0	145.3	145.0	144.7	145.3
177.5°	146.2	145.8	145.5	145.5	145.5	145.1	145.3	145.8	145.3	145.1	145.5
180°	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5



TEST NUMBER: P331287-927

CATALOG NUMBER: S122DIP-S485D330U927-4F0-1E-UDD-A4

**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°	4.7	4.6	4.7	5.1	5.1	5.0	4.7	4.6	4.5	4.1	4.2
90°	3.3	4.2	5.6	7.5	9.3	9.5	9.3	9.0	8.4	9.0	9.3
92.5°	10.1	12.7	19.0	28.0	35.9	36.4	30.7	24.4	20.9	18.6	16.9
95°	20.7	27.4	40.3	64.6	97.1	109.7	96.0	73.4	56.2	44.5	38.3
97.5°	29.4	37.0	53.2	87.1	141.1	187.3	196.5	171.1	140.0	109.7	89.5
100°	35.0	42.9	57.7	91.8	152.3	221.1	261.4	255.6	220.9	182.5	148.6
102.5°	40.2	48.0	61.7	92.1	148.0	222.2	285.6	310.9	303.0	275.0	239.1
105°	47.6	55.5	68.6	93.5	139.7	207.4	281.9	340.1	371.7	375.3	366.1
107.5°	55.0	62.9	75.7	97.4	135.5	191.5	257.3	319.0	366.7	395.8	409.3
110°	59.9	68.0	80.3	100.4	134.7	183.9	241.9	300.9	351.0	386.8	409.8



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	64.6	73.0	84.8	103.9	134.8	179.0	231.1	284.3	332.4	370.7	397.0
115°	72.2	79.8	91.8	108.8	136.0	173.6	217.8	264.0	307.0	343.7	372.6
117.5°	79.3	87.1	98.2	114.2	138.1	170.9	209.4	248.6	286.5	319.7	346.7
120°	84.0	91.8	102.7	117.9	139.4	169.4	204.9	241.0	275.7	305.4	330.8
122.5°	88.6	96.7	106.9	121.0	140.9	168.4	201.1	235.0	266.7	294.9	317.8
125°	95.5	103.3	113.4	126.0	143.3	166.8	195.7	226.2	255.0	279.6	300.6
127.5°	101.4	109.5	119.3	130.6	145.7	165.9	190.6	217.5	243.6	266.8	286.1
130°	105.3	113.0	122.9	133.5	147.5	165.4	187.3	211.9	236.0	258.1	276.6
132.5°	108.8	116.7	126.0	136.4	149.3	165.2	184.6	206.5	228.8	249.1	266.5
135°	113.7	121.4	130.5	140.2	151.5	164.9	180.8	199.0	217.5	236.0	251.6
137.5°	117.9	125.2	134.0	143.1	153.4	164.8	178.2	193.1	208.5	223.2	236.8
140°	120.3	127.6	136.0	144.7	154.2	164.6	176.6	189.2	202.6	215.6	227.8
142.5°	122.6	129.4	137.6	146.1	154.9	164.6	175.1	186.1	197.5	208.6	218.9
145°	126.3	132.4	140.0	147.8	155.6	164.0	173.0	181.6	190.9	199.6	207.7
147.5°	129.3	134.8	141.9	148.8	155.8	163.0	170.9	178.2	185.5	192.3	198.2
150°	131.3	136.3	142.8	149.2	155.6	162.3	169.1	175.8	182.0	187.8	192.8
152.5°	133.3	137.8	143.6	149.4	155.2	161.2	167.5	173.3	179.0	184.0	188.4
155°	136.0	140.2	145.0	149.7	154.5	159.2	164.6	169.9	174.4	178.6	181.6
157.5°	138.4	141.9	145.9	149.7	153.2	157.2	161.8	166.0	169.7	173.2	175.6
160°	140.0	143.1	146.4	149.7	152.6	155.9	159.8	163.4	166.5	169.6	171.6
162.5°	141.3	143.7	146.6	149.5	151.9	154.8	158.0	161.0	163.7	166.3	167.8
165°	142.8	144.4	146.9	148.9	150.6	152.6	155.0	157.3	159.2	161.2	162.3
167.5°	144.0	145.0	146.9	148.5	149.3	150.6	152.2	153.8	155.3	156.6	157.6
170°	144.4	145.3	146.6	148.1	148.6	149.5	150.6	152.0	152.8	153.9	154.5
172.5°	144.9	145.5	146.5	147.4	147.7	148.1	149.0	150.0	150.6	151.5	151.8
175°	145.3	145.5	146.1	146.6	146.4	146.6	146.9	147.8	148.1	148.4	148.6
177.5°	145.5	145.5	145.8	146.2	145.8	145.5	145.8	146.2	146.2	146.5	146.5
180°	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5



TEST NUMBER: P331287-927

CATALOG NUMBER: S122DIP-S485D330U927-4F0-1E-UDD-A4

**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°	4.2	4.0	4.0	3.7	4.0	4.0	4.2	4.2	4.1	4.5	4.6
90°	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.0	8.4	9.0
92.5°	16.6	15.8	15.9	15.5	15.9	15.8	16.6	16.9	18.6	20.9	24.4
95°	34.7	32.5	31.6	31.9	31.6	32.5	34.7	38.3	44.5	56.2	73.4
97.5°	76.1	69.2	65.2	62.8	65.2	69.2	76.1	89.5	109.7	140.0	171.1
100°	125.4	113.4	105.3	100.2	105.3	113.4	125.4	148.6	182.5	220.9	255.6
102.5°	213.8	193.3	183.2	176.3	183.2	193.3	213.8	239.1	275.0	303.0	310.9
105°	348.7	331.4	319.3	315.4	319.3	331.4	348.7	366.1	375.3	371.7	340.1
107.5°	411.5	410.6	408.1	403.0	408.1	410.6	411.5	409.3	395.8	366.7	319.0
110°	421.8	427.1	429.7	429.4	429.7	427.1	421.8	409.8	386.8	351.0	300.9



TEST NUMBER: P331287-927

CATALOG NUMBER: S122DIP-S485D330U927-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	413.8	422.6	427.4	428.9	427.4	422.6	413.8	397.0	370.7	332.4	284.3
115°	392.4	405.3	412.6	415.1	412.6	405.3	392.4	372.6	343.7	307.0	264.0
117.5°	367.0	380.6	388.2	390.4	388.2	380.6	367.0	346.7	319.7	286.5	248.6
120°	350.5	363.6	371.7	374.5	371.7	363.6	350.5	330.8	305.4	275.7	241.0
122.5°	335.4	348.4	355.6	357.9	355.6	348.4	335.4	317.8	294.9	266.7	235.0
125°	316.9	327.5	334.5	336.8	334.5	327.5	316.9	300.6	279.6	255.0	226.2
127.5°	300.3	310.3	316.3	318.1	316.3	310.3	300.3	286.1	266.8	243.6	217.5
130°	290.3	299.8	305.4	307.6	305.4	299.8	290.3	276.6	258.1	236.0	211.9
132.5°	280.0	289.5	294.6	296.7	294.6	289.5	280.0	266.5	249.1	228.8	206.5
135°	263.6	272.9	278.0	279.1	278.0	272.9	263.6	251.6	236.0	217.5	199.0
137.5°	247.8	255.7	260.2	261.8	260.2	255.7	247.8	236.8	223.2	208.5	193.1
140°	236.8	244.1	248.3	249.9	248.3	244.1	236.8	227.8	215.6	202.6	189.2
142.5°	227.4	234.0	237.7	238.1	237.7	234.0	227.4	218.9	208.6	197.5	186.1
145°	214.4	219.2	222.0	222.8	222.0	219.2	214.4	207.7	199.6	190.9	181.6
147.5°	203.7	207.6	209.5	210.0	209.5	207.6	203.7	198.2	192.3	185.5	178.2
150°	197.0	200.4	202.1	202.4	202.1	200.4	197.0	192.8	187.8	182.0	175.8
152.5°	191.7	194.6	195.8	195.9	195.8	194.6	191.7	188.4	184.0	179.0	173.3
155°	184.7	186.7	187.8	187.3	187.8	186.7	184.7	181.6	178.6	174.4	169.9
157.5°	177.8	179.4	179.9	179.9	179.9	179.4	177.8	175.6	173.2	169.7	166.0
160°	173.6	174.9	175.2	175.2	175.2	174.9	173.6	171.6	169.6	166.5	163.4
162.5°	169.8	170.7	171.0	170.7	171.0	170.7	169.8	167.8	166.3	163.7	161.0
165°	163.4	164.6	164.6	164.3	164.6	164.6	163.4	162.3	161.2	159.2	157.3
167.5°	158.1	158.8	158.7	158.4	158.7	158.8	158.1	157.6	156.6	155.3	153.8
170°	154.8	155.6	155.3	154.8	155.3	155.6	154.8	154.5	153.9	152.8	152.0
172.5°	152.1	152.5	152.2	151.9	152.2	152.5	152.1	151.8	151.5	150.6	150.0
175°	148.6	148.9	148.6	148.1	148.6	148.9	148.6	148.6	148.4	148.1	147.8
177.5°	146.5	146.5	146.2	145.8	146.2	146.5	146.5	146.5	146.5	146.2	146.2
180°	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5



TEST NUMBER: P331287-927

CATALOG NUMBER: S122DIP-S485D330U927-4F0-1E-UDD-A4

**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°	4.7	5.0	5.1	5.1	4.7	4.6	4.7	4.8	5.1	5.2	5.2
90°	9.3	9.5	9.3	7.5	5.6	4.2	3.3	2.8	2.2	1.1	0.3
92.5°	30.7	36.4	35.9	28.0	19.0	12.7	10.1	8.2	7.0	4.9	3.4
95°	96.0	109.7	97.1	64.6	40.3	27.4	20.7	16.2	13.7	10.9	9.8
97.5°	196.5	187.3	141.1	87.1	53.2	37.0	29.4	24.2	20.4	17.4	15.9
100°	261.4	221.1	152.3	91.8	57.7	42.9	35.0	29.4	24.9	22.4	21.5
102.5°	285.6	222.2	148.0	92.1	61.7	48.0	40.2	34.3	29.9	27.3	26.7
105°	281.9	207.4	139.7	93.5	68.6	55.5	47.6	41.4	37.2	35.3	34.1
107.5°	257.3	191.5	135.5	97.4	75.7	62.9	55.0	48.9	45.0	43.1	42.2
110°	241.9	183.9	134.7	100.4	80.3	68.0	59.9	54.0	50.4	48.7	47.6



TEST NUMBER: P331287-927

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	231.1	179.0	134.8	103.9	84.8	73.0	64.6	58.9	55.5	53.6	52.5
115°	217.8	173.6	136.0	108.8	91.8	79.8	72.2	66.6	63.3	61.6	60.2
117.5°	209.4	170.9	138.1	114.2	98.2	87.1	79.3	73.9	70.9	69.2	68.1
120°	204.9	169.4	139.4	117.9	102.7	91.8	84.0	78.3	75.9	74.1	73.0
122.5°	201.1	168.4	140.9	121.0	106.9	96.7	88.6	83.1	80.3	78.7	77.8
125°	195.7	166.8	143.3	126.0	113.4	103.3	95.5	89.8	86.5	84.8	84.0
127.5°	190.6	165.9	145.7	130.6	119.3	109.5	101.4	96.1	92.4	90.0	88.9
130°	187.3	165.4	147.5	133.5	122.9	113.0	105.3	99.7	95.7	92.9	91.8
132.5°	184.6	165.2	149.3	136.4	126.0	116.7	108.8	103.0	98.9	95.9	94.5
135°	180.8	164.9	151.5	140.2	130.5	121.4	113.7	107.2	103.0	99.7	98.5
137.5°	178.2	164.8	153.4	143.1	134.0	125.2	117.9	111.5	107.0	103.7	102.3
140°	176.6	164.6	154.2	144.7	136.0	127.6	120.3	114.2	109.7	106.4	105.3
142.5°	175.1	164.6	154.9	146.1	137.6	129.4	122.6	116.7	112.2	109.1	108.1
145°	173.0	164.0	155.6	147.8	140.0	132.4	126.3	120.6	116.5	113.7	112.5
147.5°	170.9	163.0	155.8	148.8	141.9	134.8	129.3	124.6	120.7	118.0	117.2
150°	169.1	162.3	155.6	149.2	142.8	136.3	131.3	127.1	123.4	121.2	120.3
152.5°	167.5	161.2	155.2	149.4	143.6	137.8	133.3	129.3	126.1	123.9	123.5
155°	164.6	159.2	154.5	149.7	145.0	140.2	136.0	132.9	129.8	128.2	127.9
157.5°	161.8	157.2	153.2	149.7	145.9	141.9	138.4	135.9	133.2	131.9	131.6
160°	159.8	155.9	152.6	149.7	146.4	143.1	140.0	137.7	135.5	134.4	134.0
162.5°	158.0	154.8	151.9	149.5	146.6	143.7	141.3	139.3	137.5	136.3	136.6
165°	155.0	152.6	150.6	148.9	146.9	144.4	142.8	141.3	139.7	139.1	139.4
167.5°	152.2	150.6	149.3	148.5	146.9	145.0	144.0	143.0	141.9	141.4	141.7
170°	150.6	149.5	148.6	148.1	146.6	145.3	144.4	143.9	143.1	142.8	143.3
172.5°	149.0	148.1	147.7	147.4	146.5	145.5	144.9	144.6	143.7	143.9	144.2
175°	146.9	146.6	146.4	146.6	146.1	145.5	145.3	145.3	144.7	145.0	145.3
177.5°	145.8	145.5	145.8	146.2	145.8	145.5	145.5	145.5	145.1	145.3	145.8
180°	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5



TEST NUMBER: P331287-927

CATALOG NUMBER: S122DIP-S485D330U927-4F0-1E-UDD-A4

**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	7.4	8.2	7.9	8.2	8.6	8.7	8.6	8.2	7.9
90°	1.1	2.2	2.8	3.3	4.2	5.6	7.5	9.3	9.5	9.3	9.0
92.5°	4.9	7.0	8.2	10.1	12.7	19.0	28.0	35.9	36.4	30.7	24.4
95°	10.9	13.7	16.2	20.7	27.4	40.3	64.6	97.1	109.7	96.0	73.4
97.5°	17.4	20.4	24.2	29.4	37.0	53.2	87.1	141.1	187.3	196.5	171.1
100°	22.4	24.9	29.4	35.0	42.9	57.7	91.8	152.3	221.1	261.4	255.6
102.5°	27.3	29.9	34.3	40.2	48.0	61.7	92.1	148.0	222.2	285.6	310.9
105°	35.3	37.2	41.4	47.6	55.5	68.6	93.5	139.7	207.4	281.9	340.1
107.5°	43.1	45.0	48.9	55.0	62.9	75.7	97.4	135.5	191.5	257.3	319.0
110°	48.7	50.4	54.0	59.9	68.0	80.3	100.4	134.7	183.9	241.9	300.9





TEST NUMBER: P331287-927

CATALOG NUMBER: S122DIP-S485D330U927-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	53.6	55.5	58.9	64.6	73.0	84.8	103.9	134.8	179.0	231.1	284.3
115°	61.6	63.3	66.6	72.2	79.8	91.8	108.8	136.0	173.6	217.8	264.0
117.5°	69.2	70.9	73.9	79.3	87.1	98.2	114.2	138.1	170.9	209.4	248.6
120°	74.1	75.9	78.3	84.0	91.8	102.7	117.9	139.4	169.4	204.9	241.0
122.5°	78.7	80.3	83.1	88.6	96.7	106.9	121.0	140.9	168.4	201.1	235.0
125°	84.8	86.5	89.8	95.5	103.3	113.4	126.0	143.3	166.8	195.7	226.2
127.5°	90.0	92.4	96.1	101.4	109.5	119.3	130.6	145.7	165.9	190.6	217.5
130°	92.9	95.7	99.7	105.3	113.0	122.9	133.5	147.5	165.4	187.3	211.9
132.5°	95.9	98.9	103.0	108.8	116.7	126.0	136.4	149.3	165.2	184.6	206.5
135°	99.7	103.0	107.2	113.7	121.4	130.5	140.2	151.5	164.9	180.8	199.0
137.5°	103.7	107.0	111.5	117.9	125.2	134.0	143.1	153.4	164.8	178.2	193.1
140°	106.4	109.7	114.2	120.3	127.6	136.0	144.7	154.2	164.6	176.6	189.2
142.5°	109.1	112.2	116.7	122.6	129.4	137.6	146.1	154.9	164.6	175.1	186.1
145°	113.7	116.5	120.6	126.3	132.4	140.0	147.8	155.6	164.0	173.0	181.6
147.5°	118.0	120.7	124.6	129.3	134.8	141.9	148.8	155.8	163.0	170.9	178.2
150°	121.2	123.4	127.1	131.3	136.3	142.8	149.2	155.6	162.3	169.1	175.8
152.5°	123.9	126.1	129.3	133.3	137.8	143.6	149.4	155.2	161.2	167.5	173.3
155°	128.2	129.8	132.9	136.0	140.2	145.0	149.7	154.5	159.2	164.6	169.9
157.5°	131.9	133.2	135.9	138.4	141.9	145.9	149.7	153.2	157.2	161.8	166.0
160°	134.4	135.5	137.7	140.0	143.1	146.4	149.7	152.6	155.9	159.8	163.4
162.5°	136.3	137.5	139.3	141.3	143.7	146.6	149.5	151.9	154.8	158.0	161.0
165°	139.1	139.7	141.3	142.8	144.4	146.9	148.9	150.6	152.6	155.0	157.3
167.5°	141.4	141.9	143.0	144.0	145.0	146.9	148.5	149.3	150.6	152.2	153.8
170°	142.8	143.1	143.9	144.4	145.3	146.6	148.1	148.6	149.5	150.6	152.0
172.5°	143.9	143.7	144.6	144.9	145.5	146.5	147.4	147.7	148.1	149.0	150.0
175°	145.0	144.7	145.3	145.3	145.5	146.1	146.6	146.4	146.6	146.9	147.8
177.5°	145.3	145.1	145.5	145.5	145.5	145.8	146.2	145.8	145.5	145.8	146.2
180°	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5



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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°	8.1	8.2	8.0	8.0	8.2	8.0	8.0
90°	8.4	9.0	9.3	9.3	9.3	9.3	9.3
92.5°	20.9	18.6	16.9	16.6	15.8	15.9	15.5
95°	56.2	44.5	38.3	34.7	32.5	31.6	31.9
97.5°	140.0	109.7	89.5	76.1	69.2	65.2	62.8
100°	220.9	182.5	148.6	125.4	113.4	105.3	100.2
102.5°	303.0	275.0	239.1	213.8	193.3	183.2	176.3
105°	371.7	375.3	366.1	348.7	331.4	319.3	315.4
107.5°	366.7	395.8	409.3	411.5	410.6	408.1	403.0
110°	351.0	386.8	409.8	421.8	427.1	429.7	429.4



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	332.4	370.7	397.0	413.8	422.6	427.4	428.9
115°	307.0	343.7	372.6	392.4	405.3	412.6	415.1
117.5°	286.5	319.7	346.7	367.0	380.6	388.2	390.4
120°	275.7	305.4	330.8	350.5	363.6	371.7	374.5
122.5°	266.7	294.9	317.8	335.4	348.4	355.6	357.9
125°	255.0	279.6	300.6	316.9	327.5	334.5	336.8
127.5°	243.6	266.8	286.1	300.3	310.3	316.3	318.1
130°	236.0	258.1	276.6	290.3	299.8	305.4	307.6
132.5°	228.8	249.1	266.5	280.0	289.5	294.6	296.7
135°	217.5	236.0	251.6	263.6	272.9	278.0	279.1
137.5°	208.5	223.2	236.8	247.8	255.7	260.2	261.8
140°	202.6	215.6	227.8	236.8	244.1	248.3	249.9
142.5°	197.5	208.6	218.9	227.4	234.0	237.7	238.1
145°	190.9	199.6	207.7	214.4	219.2	222.0	222.8
147.5°	185.5	192.3	198.2	203.7	207.6	209.5	210.0
150°	182.0	187.8	192.8	197.0	200.4	202.1	202.4
152.5°	179.0	184.0	188.4	191.7	194.6	195.8	195.9
155°	174.4	178.6	181.6	184.7	186.7	187.8	187.3
157.5°	169.7	173.2	175.6	177.8	179.4	179.9	179.9
160°	166.5	169.6	171.6	173.6	174.9	175.2	175.2
162.5°	163.7	166.3	167.8	169.8	170.7	171.0	170.7
165°	159.2	161.2	162.3	163.4	164.6	164.6	164.3
167.5°	155.3	156.6	157.6	158.1	158.8	158.7	158.4
170°	152.8	153.9	154.5	154.8	155.6	155.3	154.8
172.5°	150.6	151.5	151.8	152.1	152.5	152.2	151.9
175°	148.1	148.4	148.6	148.6	148.9	148.6	148.1
177.5°	146.2	146.5	146.5	146.5	146.5	146.2	145.8
180°	145.5	145.5	145.5	145.5	145.5	145.5	145.5

(END OF REPORT)