

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: P331323-930

Luminaire Tested: **S122DIP-S485D1080U930-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331323-930  
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-S485D1080U930-4F0-1E-UDD-A4  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1080 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5179.4 lumens  
Efficiency: N/A  
Efficacy: 104.8 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Indirect

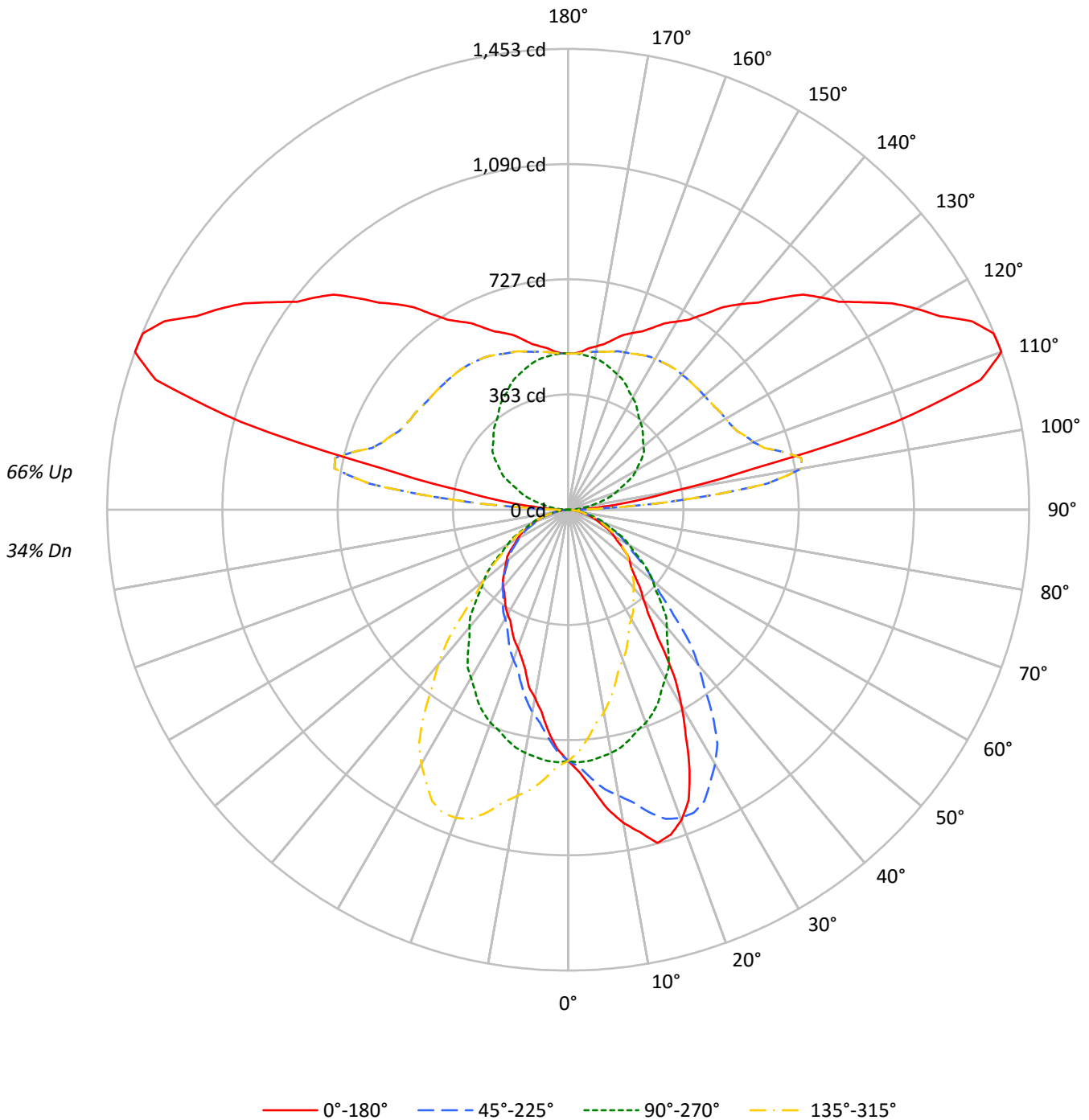
Input Watts (W): 49.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	34				
1	94	90	87	83	85	82	79	76	66	63	62	51	49	48	37	36	35	29				
2	86	79	73	69	78	72	67	63	58	54	51	45	43	41	33	32	30	25				
3	79	70	63	57	71	63	57	53	51	47	44	40	37	35	29	28	26	21				
4	72	62	54	49	65	56	50	45	46	41	37	36	33	30	26	24	23	19				
5	66	55	48	42	60	50	44	39	41	36	32	32	29	26	24	22	20	16				
6	61	50	42	36	55	45	39	34	37	32	28	29	26	23	22	20	18	15				
7	57	45	37	32	51	41	34	30	33	29	25	27	23	20	20	18	16	13				
8	52	41	33	28	47	37	31	26	31	26	22	24	21	18	18	16	14	12				
9	49	37	30	25	44	34	28	23	28	23	20	22	19	16	17	15	13	11				
10	46	34	27	22	41	31	25	21	26	21	18	21	17	15	16	14	12	10				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	12791	12791	12791	12791
5°	14340	12875	11408	12875
10°	16433	12770	9875	12770
15°	18180	12535	8724	12535
20°	17904	12283	7952	12283
25°	16142	11948	7464	11948
30°	13340	11415	7107	11415
35°	9723	10857	6853	10857
40°	7765	10197	6713	10197
45°	6786	9435	6521	9435
50°	6380	8696	6393	8696
55°	5880	7947	6221	7947
60°	5389	7149	5958	7149
65°	4909	6434	5700	6434
70°	4456	5736	5320	5736
75°	3949	4959	4710	4959
80°	3394	4110	3794	4110
85°	3057	3057	2242	3057



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.5	1.5
10°-20°	219.3	4.2
20°-30°	318.3	6.1
30°-40°	335.9	6.5
40°-50°	297.4	5.7
50°-60°	237.4	4.6
60°-70°	161.3	3.1
70°-80°	82.7	1.6
80°-90°	24.4	0.5
90°-100°	196.9	3.8
100°-110°	668.2	12.9
110°-120°	709.9	13.7
120°-130°	584.4	11.3
130°-140°	469.3	9.1
140°-150°	354.6	6.8
150°-160°	249.2	4.8
160°-170°	146.7	2.8
170°-180°	47.8	0.9
0°-30°	613.1	11.8
0°-40°	949.1	18.3
0°-60°	1483.9	28.6
0°-90°	1752.3	33.8
90°-120°	1575.1	30.4
90°-150°	2983.4	57.6
90°-180°	3427.0	66.2
0°-180°	5179.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	792	792	792	792	792	
5°	885	794	704	794	885	88
15°	1088	750	522	750	1088	300
25°	906	671	419	671	906	410
35°	493	551	348	551	493	321
45°	297	413	286	413	297	234
55°	209	282	221	282	209	187
65°	128	168	149	168	128	128
75°	63	80	76	80	63	68
85°	16	16	12	16	16	19
90°	31	1	31	1	31	17
95°	108	33	108	33	108	140
105°	1067	116	1067	116	1067	1033
115°	1405	204	1405	204	1405	1375
125°	1139	284	1139	284	1139	1030
135°	944	333	944	333	944	734
145°	754	381	754	381	754	479
155°	634	433	634	433	634	296
165°	556	472	556	472	556	159
175°	501	492	501	492	501	49
180°	492	492	492	492	492	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2
2.5°	828.8	829.1	829.5	825.7	825.2	825.2	821.7	818.8	815.4	810.7	811.2
5°	884.8	888.2	889.4	885.7	880.3	879.6	874.5	865.9	858.0	851.7	847.1
7.5°	951.7	953.0	950.1	945.3	941.2	933.8	924.2	914.8	901.6	889.4	880.4
10°	1002.3	1004.2	999.0	992.0	986.2	977.7	963.7	949.3	932.1	915.3	901.9
12.5°	1040.8	1045.4	1038.7	1037.8	1027.8	1016.2	999.5	992.2	967.8	944.5	930.1
15°	1087.6	1087.3	1087.9	1082.1	1074.8	1073.0	1055.3	1036.2	1001.8	988.1	964.3
17.5°	1074.1	1078.7	1080.8	1080.8	1080.6	1079.5	1073.7	1061.7	1044.4	1022.2	994.8
20°	1042.0	1048.0	1049.0	1056.0	1059.9	1065.1	1067.2	1063.9	1053.2	1034.6	1010.9
22.5°	992.2	993.9	996.8	1007.7	1016.3	1029.2	1036.0	1047.3	1043.2	1034.1	1014.3
25°	906.1	903.1	913.7	919.2	939.0	959.7	974.6	991.1	1005.7	1014.6	1008.8
27.5°	802.7	798.2	814.2	828.7	844.7	867.2	890.4	917.9	940.7	969.3	979.1
30°	715.5	718.3	733.5	749.0	773.4	805.0	831.2	861.4	894.0	925.9	948.1
32.5°	621.5	632.0	641.6	665.4	686.9	722.2	760.6	798.3	838.9	875.2	909.6
35°	493.3	505.4	518.9	536.2	566.3	601.4	638.8	689.7	745.1	794.7	835.5
37.5°	415.2	413.3	420.9	433.5	457.9	486.2	529.2	579.5	644.7	703.0	760.6
40°	368.4	367.2	372.7	384.3	402.8	423.5	461.3	505.4	566.1	637.2	705.8
42.5°	336.2	337.0	340.1	348.2	360.9	378.0	406.3	443.8	499.3	566.4	640.0
45°	297.2	299.3	302.6	306.6	313.9	327.9	343.7	370.6	414.4	470.4	542.9
47.5°	269.0	269.1	272.5	276.0	280.3	288.2	301.2	318.0	348.9	394.5	456.8
50°	254.0	251.8	254.2	257.0	261.5	267.0	275.6	291.4	312.1	348.9	401.0
52.5°	235.5	235.5	237.7	238.7	242.8	248.3	256.1	267.0	285.8	314.6	357.4
55°	208.9	210.4	211.7	213.4	217.1	221.0	227.1	234.5	249.1	270.7	302.3
57.5°	183.9	184.4	185.6	189.1	191.4	195.0	200.8	207.5	217.0	233.0	256.8
60°	166.9	166.9	169.3	170.8	173.8	177.5	182.1	188.5	197.0	210.1	229.3
62.5°	151.2	151.0	152.0	154.5	156.8	160.2	164.8	170.2	178.2	189.9	205.6
65°	128.5	127.9	129.7	130.3	132.7	136.1	139.7	145.5	152.0	160.5	174.5
67.5°	106.6	107.3	108.3	109.4	110.8	114.3	116.8	120.8	126.2	133.3	142.8
70°	94.4	94.4	94.4	95.3	97.1	99.0	101.4	104.8	109.9	116.0	124.5
72.5°	80.7	81.7	82.7	82.2	84.5	85.5	88.5	90.3	95.3	99.2	106.7
75°	63.3	63.3	63.3	64.8	65.8	66.7	68.5	70.4	72.8	77.6	81.6
77.5°	47.3	47.1	47.5	47.8	48.8	49.9	50.4	52.1	54.3	56.6	59.9
80°	36.5	37.2	37.4	38.1	38.1	38.6	39.0	41.1	42.6	44.2	46.3
82.5°	28.3	28.4	28.5	28.5	28.8	29.2	29.9	30.7	31.1	32.4	34.1
85°	16.5	16.1	16.1	16.7	16.5	16.5	17.0	17.7	17.7	17.9	18.9
87.5°	12.6	12.6	12.8	12.6	12.6	12.6	12.2	12.4	12.8	13.3	13.3
90°	31.2	31.2	31.2	31.2	31.2	30.3	28.5	30.3	31.2	32.2	31.2
92.5°	52.5	54.0	53.2	56.3	57.0	62.9	70.8	82.6	104.0	123.1	121.4
95°	107.9	107.0	109.9	117.4	129.7	150.6	190.4	248.2	324.9	371.3	328.6
97.5°	212.5	220.5	234.3	257.6	302.9	371.3	473.8	579.0	664.9	633.8	477.4
100°	339.1	356.1	383.6	424.3	502.9	617.5	747.3	864.7	884.6	748.2	515.2
102.5°	596.7	619.8	654.1	723.6	809.0	930.4	1025.3	1051.9	966.5	752.0	500.8
105°	1067.4	1080.7	1121.4	1180.1	1238.8	1270.1	1257.8	1150.7	953.7	701.8	472.6
107.5°	1363.4	1381.0	1389.2	1392.4	1385.0	1339.2	1240.7	1079.5	870.6	648.0	458.6
110°	1452.9	1453.8	1445.3	1427.3	1386.6	1308.9	1187.6	1018.1	818.3	622.2	455.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1451.3	1446.3	1430.1	1400.0	1343.4	1254.3	1124.8	962.1	782.0	605.6	456.3
115°	1404.6	1396.0	1371.4	1327.9	1260.6	1163.0	1039.0	893.2	736.9	587.2	460.3
117.5°	1321.0	1313.9	1287.8	1241.9	1173.3	1081.8	969.3	841.2	708.4	578.3	467.1
120°	1267.2	1257.8	1230.3	1185.8	1119.5	1033.3	932.9	815.5	693.2	573.0	471.7
122.5°	1211.1	1203.2	1178.8	1135.0	1075.5	997.7	902.6	795.0	680.4	570.0	477.0
125°	1139.4	1131.8	1108.2	1072.1	1017.2	946.2	862.8	765.2	662.0	564.5	484.9
127.5°	1076.5	1070.4	1049.9	1016.3	968.3	902.8	824.2	735.9	645.0	561.3	493.1
130°	1040.9	1033.3	1014.4	982.2	935.7	873.3	798.4	717.0	633.7	559.7	499.1
132.5°	1003.7	996.9	979.5	947.3	901.6	842.9	774.2	698.8	624.5	559.0	505.2
135°	944.3	940.4	923.4	892.2	851.4	798.4	735.9	673.4	611.8	557.8	512.4
137.5°	885.9	880.3	865.3	838.4	801.3	755.0	705.4	653.1	602.9	557.7	518.9
140°	845.8	840.1	825.9	801.3	770.9	729.3	685.7	640.3	597.6	556.9	521.9
142.5°	805.6	804.5	791.8	769.4	740.6	705.8	668.3	629.7	592.3	556.9	524.2
145°	753.9	751.1	741.6	725.5	702.8	675.3	646.0	614.7	585.3	555.0	526.6
147.5°	710.5	708.8	702.4	689.5	670.7	650.7	627.8	603.2	578.1	551.6	527.3
150°	684.8	683.8	678.2	666.8	652.6	635.5	615.6	594.8	572.0	549.3	526.6
152.5°	662.8	662.6	658.4	648.6	637.4	622.6	605.8	586.4	566.7	545.5	525.1
155°	633.7	635.5	631.7	625.1	614.7	604.2	590.0	574.9	556.9	538.9	522.8
157.5°	608.8	608.8	607.1	601.6	594.2	586.0	574.1	561.4	547.6	532.1	518.4
160°	592.9	592.9	591.9	587.2	580.6	574.0	563.5	553.1	540.8	527.6	516.2
162.5°	577.7	578.5	577.6	574.3	567.7	562.6	553.7	544.8	534.8	523.7	513.9
165°	556.0	556.9	556.9	553.1	549.3	545.5	538.9	532.3	524.7	516.2	509.6
167.5°	535.9	537.0	537.2	535.1	533.5	530.0	525.5	520.3	514.9	509.6	505.2
170°	523.7	525.6	526.6	523.7	522.8	520.9	517.1	514.3	509.6	505.7	502.9
172.5°	513.9	515.0	516.0	514.7	513.7	512.6	509.6	507.4	504.3	501.2	499.9
175°	501.0	502.9	503.9	502.9	502.9	502.0	501.0	500.1	497.3	496.3	495.4
177.5°	493.3	494.8	495.5	495.5	495.5	495.5	494.8	494.8	493.3	492.5	493.3
180°	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2
2.5°	812.9	811.0	809.8	805.4	801.5	797.6	796.4	796.9	791.5	786.4	784.2
5°	844.7	838.5	832.7	824.5	814.8	804.1	798.7	794.4	783.7	772.2	765.5
7.5°	873.0	864.3	853.1	837.7	823.5	806.7	796.1	786.7	771.0	754.7	744.8
10°	890.3	878.4	864.1	845.2	827.9	807.5	793.2	778.9	760.6	741.1	729.0
12.5°	905.1	889.2	875.1	850.8	830.3	804.8	787.8	767.7	748.4	725.3	713.3
15°	940.5	911.0	884.2	856.8	831.5	795.9	777.1	749.9	724.6	696.0	682.3
17.5°	967.8	934.7	892.5	857.7	828.2	788.7	761.0	728.6	698.6	665.9	647.3
20°	983.5	945.4	900.0	858.7	823.3	778.3	748.1	714.9	679.9	643.0	623.0
22.5°	992.7	952.8	907.8	855.0	813.6	769.7	731.8	695.5	659.9	620.2	599.1
25°	995.6	959.1	911.6	851.9	801.4	751.8	706.0	670.7	627.9	590.7	559.9
27.5°	981.1	955.0	909.3	846.2	787.3	729.3	678.4	638.4	593.0	552.8	521.8
30°	963.4	948.1	903.7	840.3	776.1	713.7	657.7	612.3	567.3	526.4	494.8
32.5°	935.9	932.5	893.5	832.1	764.2	694.0	636.0	590.1	540.2	500.1	469.9
35°	881.7	896.4	871.7	813.6	741.7	665.9	603.2	550.8	499.0	460.6	432.4
37.5°	809.3	845.6	839.2	786.4	711.3	635.4	566.1	511.4	462.0	423.3	395.5
40°	759.4	805.7	812.4	765.7	690.0	611.7	538.3	483.8	435.7	400.4	372.3
42.5°	705.8	759.9	778.3	740.9	666.6	586.9	513.5	457.1	409.4	375.0	350.3
45°	616.0	687.5	720.7	699.4	627.5	545.9	470.4	413.2	370.0	337.7	318.5
47.5°	532.0	610.2	654.8	647.3	584.1	503.3	428.7	373.7	331.7	305.9	288.7
50°	472.5	552.9	606.8	609.3	552.9	472.9	397.9	346.2	307.5	283.5	269.5
52.5°	420.9	497.7	556.4	569.3	518.1	441.2	370.4	318.9	284.9	262.8	250.2
55°	353.5	418.3	483.6	507.3	466.2	393.1	327.6	282.3	250.3	235.1	224.1
57.5°	293.9	348.0	408.1	434.4	409.0	346.5	285.1	245.7	219.8	206.4	198.0
60°	262.4	305.1	358.7	390.0	368.1	312.4	258.8	221.4	200.1	188.2	180.3
62.5°	233.3	271.0	316.3	345.0	333.0	280.5	232.5	199.4	181.1	169.9	164.2
65°	192.4	222.3	257.3	283.8	275.9	235.9	196.7	168.4	153.8	145.0	140.4
67.5°	158.4	180.0	204.3	227.5	221.1	192.8	161.3	139.3	128.3	120.7	118.1
70°	137.1	153.4	175.0	193.6	188.5	165.3	140.4	121.5	112.0	105.7	102.9
72.5°	116.6	130.0	146.6	161.8	158.2	139.0	118.2	104.0	96.7	90.8	88.5
75°	88.0	98.3	108.4	118.5	117.6	102.6	90.4	79.5	73.7	69.1	68.2
77.5°	65.0	70.8	77.6	83.6	81.9	73.4	63.8	57.6	53.3	50.2	49.7
80°	49.7	53.0	57.9	62.1	60.0	56.3	48.8	44.2	41.1	38.1	36.9
82.5°	36.0	39.4	42.2	44.6	43.0	39.5	34.8	31.7	29.9	27.8	27.3
85°	18.9	20.7	21.9	22.5	21.9	19.8	17.7	16.5	14.9	14.0	13.7
87.5°	12.4	11.1	10.1	10.0	9.0	8.6	6.8	5.5	5.9	6.4	6.3
90°	25.6	18.9	14.2	11.3	9.5	7.6	3.8	1.0	3.8	7.6	9.5
92.5°	94.5	64.4	43.0	34.1	27.6	23.5	16.6	11.6	16.6	23.5	27.6
95°	218.7	136.4	92.8	70.1	55.0	46.4	36.9	33.2	36.9	46.4	55.0
97.5°	294.7	179.9	125.2	99.5	82.0	69.1	59.1	54.0	59.1	69.1	82.0
100°	310.6	195.1	144.9	118.4	99.5	84.3	75.7	72.9	75.7	84.3	99.5
102.5°	311.4	208.7	162.3	135.8	116.1	100.9	92.5	90.3	92.5	100.9	116.1
105°	316.3	232.0	187.5	161.0	140.1	126.0	119.4	115.5	119.4	126.0	140.1
107.5°	329.4	255.9	212.7	186.1	165.3	152.3	145.9	142.8	145.9	152.3	165.3
110°	340.0	271.8	230.2	202.7	182.8	170.5	164.8	161.0	164.8	170.5	182.8





TEST NUMBER: P331323-930

CATALOG NUMBER: S122DIP-S485D1080U930-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	351.4	287.0	246.8	218.6	199.4	187.9	181.5	177.7	181.5	187.9	199.4
115°	368.4	310.6	269.9	244.3	225.4	214.0	208.4	203.7	208.4	214.0	225.4
117.5°	386.6	332.4	294.7	268.2	250.1	240.0	234.3	230.6	234.3	240.0	250.1
120°	398.8	347.6	310.6	284.1	265.2	256.7	250.9	247.2	250.9	256.7	265.2
122.5°	409.4	362.0	327.3	300.0	281.1	271.8	266.1	263.1	266.1	271.8	281.1
125°	426.2	383.6	349.5	322.9	304.0	292.7	287.0	284.1	287.0	292.7	304.0
127.5°	441.9	403.7	370.5	343.2	325.1	312.6	304.6	300.8	304.6	312.6	325.1
130°	451.8	415.8	382.6	356.1	337.2	323.9	314.5	310.6	314.5	323.9	337.2
132.5°	461.6	426.4	394.8	368.3	348.5	334.5	324.3	319.8	324.3	334.5	348.5
135°	474.5	441.3	411.1	384.5	362.7	348.5	337.2	333.4	337.2	348.5	362.7
137.5°	484.4	453.5	423.5	398.9	377.3	362.2	350.8	346.3	350.8	362.2	377.3
140°	489.7	460.3	431.9	407.2	386.5	371.3	359.9	356.1	359.9	371.3	386.5
142.5°	494.2	465.6	438.0	414.8	394.8	379.6	369.0	366.0	369.0	379.6	394.8
145°	500.1	473.5	448.0	427.1	408.2	394.0	384.5	380.7	384.5	394.0	408.2
147.5°	503.3	480.0	455.9	437.4	421.7	408.5	399.5	396.6	399.5	408.5	421.7
150°	504.8	483.1	461.2	444.2	430.0	417.7	410.1	407.2	410.1	417.7	430.0
152.5°	505.6	486.1	466.5	451.0	437.6	426.7	419.2	417.8	419.2	426.7	437.6
155°	506.7	490.6	474.5	460.3	449.9	439.4	433.7	432.8	433.7	439.4	449.9
157.5°	506.7	493.8	480.2	468.2	459.9	450.9	446.3	445.3	446.3	450.9	459.9
160°	506.7	495.4	484.0	473.5	465.9	458.4	454.6	453.6	454.6	458.4	465.9
162.5°	506.0	496.1	486.2	478.1	471.2	465.2	461.5	462.0	461.5	465.2	471.2
165°	503.9	497.3	488.7	483.1	478.3	472.6	470.8	471.7	470.8	472.6	478.3
167.5°	502.6	497.0	490.8	487.2	483.8	480.2	478.5	479.6	478.5	480.2	483.8
170°	501.0	496.3	491.5	488.7	486.8	484.0	483.1	484.9	483.1	484.0	486.8
172.5°	498.7	495.5	492.3	490.2	489.1	486.2	486.8	488.0	486.8	486.2	489.1
175°	496.3	494.4	492.5	491.5	491.5	489.7	490.6	491.5	490.6	489.7	491.5
177.5°	494.8	493.3	492.5	492.5	492.5	491.0	491.7	493.3	491.7	491.0	492.5
180°	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5



TEST NUMBER: P331323-930

CATALOG NUMBER: S122DIP-S485D1080U930-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2
2.5°	781.8	780.3	775.2	772.5	768.2	764.0	761.3	762.5	763.5	763.0	762.3
5°	759.4	753.6	744.8	737.1	731.6	721.6	717.4	715.3	713.4	711.3	709.1
7.5°	732.7	723.6	710.9	700.1	689.8	677.4	670.3	665.9	661.5	656.7	652.5
10°	713.7	700.9	687.5	672.3	660.1	648.8	638.8	632.1	626.0	620.2	616.0
12.5°	693.7	679.0	662.4	641.6	628.2	612.0	610.6	598.8	589.2	585.6	580.7
15°	661.9	641.2	620.2	595.6	584.9	570.3	561.2	552.0	543.8	538.0	536.5
17.5°	625.8	599.0	578.1	560.4	543.0	528.0	519.6	512.3	505.5	497.7	496.8
20°	598.3	575.2	552.4	536.8	518.9	503.6	493.3	485.9	480.1	475.6	471.7
22.5°	572.3	546.9	526.0	509.0	491.3	479.0	470.8	463.8	459.0	454.0	450.2
25°	530.4	510.6	487.8	468.6	454.0	446.1	439.4	433.3	430.2	426.9	422.7
27.5°	493.8	471.8	450.5	435.6	422.7	415.7	411.0	406.8	404.0	402.0	399.6
30°	468.0	445.7	429.0	414.4	403.7	396.7	393.7	391.3	387.9	386.7	385.5
32.5°	443.1	423.1	408.8	396.2	386.0	381.4	378.6	376.4	373.8	372.6	370.1
35°	408.0	391.3	377.2	370.2	362.0	358.1	356.0	352.9	350.5	349.3	348.9
37.5°	375.0	360.4	351.1	342.2	338.7	336.2	333.4	331.3	330.5	330.4	330.0
40°	353.5	341.6	333.4	326.1	324.6	320.9	318.5	316.7	316.7	317.0	316.7
42.5°	334.0	323.3	316.1	309.8	308.0	305.8	303.4	303.3	303.8	304.8	303.8
45°	304.5	296.9	291.7	288.6	285.3	283.2	282.8	283.8	284.1	284.4	285.3
47.5°	277.3	272.2	267.6	264.2	262.8	262.4	262.0	263.6	265.1	265.6	267.0
50°	261.2	255.4	251.5	249.4	248.2	247.5	248.2	250.0	251.2	252.7	253.6
52.5°	243.2	239.1	236.4	234.7	234.2	234.6	234.7	236.8	238.8	239.3	239.8
55°	218.3	215.2	214.7	211.9	213.1	212.8	214.3	215.6	217.4	219.2	219.6
57.5°	193.5	191.0	189.4	189.6	190.0	191.4	192.6	194.8	196.7	198.6	198.9
60°	176.9	175.7	174.8	174.8	175.4	177.2	178.7	180.8	182.1	183.3	184.2
62.5°	161.8	160.6	159.6	160.1	161.8	162.8	164.6	165.8	167.0	168.2	168.6
65°	137.9	137.3	138.3	138.8	139.2	140.6	142.8	143.7	145.0	145.5	147.7
67.5°	115.9	116.1	115.9	116.8	118.5	119.0	120.9	123.1	123.4	124.5	125.9
70°	101.1	101.7	102.3	102.9	104.4	105.0	106.6	107.5	108.7	109.6	110.6
72.5°	87.5	87.6	88.2	88.1	89.4	90.7	92.0	92.9	94.1	95.2	96.1
75°	67.3	67.3	67.9	68.2	69.7	71.3	70.9	71.6	72.8	74.0	74.6
77.5°	49.2	48.5	49.2	49.4	49.9	51.2	51.4	52.3	53.7	53.3	54.0
80°	37.4	36.5	37.4	37.7	37.7	39.3	39.3	39.9	40.8	39.9	40.8
82.5°	26.7	26.3	27.0	27.1	27.6	27.6	28.0	28.2	29.1	28.7	29.1
85°	13.4	13.1	13.4	13.1	13.4	13.7	13.7	13.4	13.4	14.0	13.1
87.5°	6.4	6.8	7.4	8.8	9.6	9.6	9.2	9.0	8.6	8.5	8.7
90°	11.3	14.2	18.9	25.6	31.2	32.2	31.2	30.3	28.5	30.3	31.2
92.5°	34.1	43.0	64.4	94.5	121.4	123.1	104.0	82.6	70.8	62.9	57.0
95°	70.1	92.8	136.4	218.7	328.6	371.3	324.9	248.2	190.4	150.6	129.7
97.5°	99.5	125.2	179.9	294.7	477.4	633.8	664.9	579.0	473.8	371.3	302.9
100°	118.4	144.9	195.1	310.6	515.2	748.2	884.6	864.7	747.3	617.5	502.9
102.5°	135.8	162.3	208.7	311.4	500.8	752.0	966.5	1051.9	1025.3	930.4	809.0
105°	161.0	187.5	232.0	316.3	472.6	701.8	953.7	1150.7	1257.8	1270.1	1238.8
107.5°	186.1	212.7	255.9	329.4	458.6	648.0	870.6	1079.5	1240.7	1339.2	1385.0
110°	202.7	230.2	271.8	340.0	455.6	622.2	818.3	1018.1	1187.6	1308.9	1386.6



TEST NUMBER: P331323-930

CATALOG NUMBER: S122DIP-S485D1080U930-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	218.6	246.8	287.0	351.4	456.3	605.6	782.0	962.1	1124.8	1254.3	1343.4
115°	244.3	269.9	310.6	368.4	460.3	587.2	736.9	893.2	1039.0	1163.0	1260.6
117.5°	268.2	294.7	332.4	386.6	467.1	578.3	708.4	841.2	969.3	1081.8	1173.3
120°	284.1	310.6	347.6	398.8	471.7	573.0	693.2	815.5	932.9	1033.3	1119.5
122.5°	300.0	327.3	362.0	409.4	477.0	570.0	680.4	795.0	902.6	997.7	1075.5
125°	322.9	349.5	383.6	426.2	484.9	564.5	662.0	765.2	862.8	946.2	1017.2
127.5°	343.2	370.5	403.7	441.9	493.1	561.3	645.0	735.9	824.2	902.8	968.3
130°	356.1	382.6	415.8	451.8	499.1	559.7	633.7	717.0	798.4	873.3	935.7
132.5°	368.3	394.8	426.4	461.6	505.2	559.0	624.5	698.8	774.2	842.9	901.6
135°	384.5	411.1	441.3	474.5	512.4	557.8	611.8	673.4	735.9	798.4	851.4
137.5°	398.9	423.5	453.5	484.4	518.9	557.7	602.9	653.1	705.4	755.0	801.3
140°	407.2	431.9	460.3	489.7	521.9	556.9	597.6	640.3	685.7	729.3	770.9
142.5°	414.8	438.0	465.6	494.2	524.2	556.9	592.3	629.7	668.3	705.8	740.6
145°	427.1	448.0	473.5	500.1	526.6	555.0	585.3	614.7	646.0	675.3	702.8
147.5°	437.4	455.9	480.0	503.3	527.3	551.6	578.1	603.2	627.8	650.7	670.7
150°	444.2	461.2	483.1	504.8	526.6	549.3	572.0	594.8	615.6	635.5	652.6
152.5°	451.0	466.5	486.1	505.6	525.1	545.5	566.7	586.4	605.8	622.6	637.4
155°	460.3	474.5	490.6	506.7	522.8	538.9	556.9	574.9	590.0	604.2	614.7
157.5°	468.2	480.2	493.8	506.7	518.4	532.1	547.6	561.4	574.1	586.0	594.2
160°	473.5	484.0	495.4	506.7	516.2	527.6	540.8	553.1	563.5	574.0	580.6
162.5°	478.1	486.2	496.1	506.0	513.9	523.7	534.8	544.8	553.7	562.6	567.7
165°	483.1	488.7	497.3	503.9	509.6	516.2	524.7	532.3	538.9	545.5	549.3
167.5°	487.2	490.8	497.0	502.6	505.2	509.6	514.9	520.3	525.5	530.0	533.5
170°	488.7	491.5	496.3	501.0	502.9	505.7	509.6	514.3	517.1	520.9	522.8
172.5°	490.2	492.3	495.5	498.7	499.9	501.2	504.3	507.4	509.6	512.6	513.7
175°	491.5	492.5	494.4	496.3	495.4	496.3	497.3	500.1	501.0	502.0	502.9
177.5°	492.5	492.5	493.3	494.8	493.3	492.5	493.3	494.8	494.8	495.5	495.5
180°	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5



TEST NUMBER: P331323-930

CATALOG NUMBER: S122DIP-S485D1080U930-4F0-1E-UDD-A4

**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°	8.7	8.5	8.5	8.2	8.5	8.5	8.7	8.7	8.5	8.6	9.0
90°	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	30.3	28.5	30.3
92.5°	56.3	53.2	54.0	52.5	54.0	53.2	56.3	57.0	62.9	70.8	82.6
95°	117.4	109.9	107.0	107.9	107.0	109.9	117.4	129.7	150.6	190.4	248.2
97.5°	257.6	234.3	220.5	212.5	220.5	234.3	257.6	302.9	371.3	473.8	579.0
100°	424.3	383.6	356.1	339.1	356.1	383.6	424.3	502.9	617.5	747.3	864.7
102.5°	723.6	654.1	619.8	596.7	619.8	654.1	723.6	809.0	930.4	1025.3	1051.9
105°	1180.1	1121.4	1080.7	1067.4	1080.7	1121.4	1180.1	1238.8	1270.1	1257.8	1150.7
107.5°	1392.4	1389.2	1381.0	1363.4	1381.0	1389.2	1392.4	1385.0	1339.2	1240.7	1079.5
110°	1427.3	1445.3	1453.8	1452.9	1453.8	1445.3	1427.3	1386.6	1308.9	1187.6	1018.1



TEST NUMBER: P331323-930

CATALOG NUMBER: S122DIP-S485D1080U930-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1400.0	1430.1	1446.3	1451.3	1446.3	1430.1	1400.0	1343.4	1254.3	1124.8	962.1
115°	1327.9	1371.4	1396.0	1404.6	1396.0	1371.4	1327.9	1260.6	1163.0	1039.0	893.2
117.5°	1241.9	1287.8	1313.9	1321.0	1313.9	1287.8	1241.9	1173.3	1081.8	969.3	841.2
120°	1185.8	1230.3	1257.8	1267.2	1257.8	1230.3	1185.8	1119.5	1033.3	932.9	815.5
122.5°	1135.0	1178.8	1203.2	1211.1	1203.2	1178.8	1135.0	1075.5	997.7	902.6	795.0
125°	1072.1	1108.2	1131.8	1139.4	1131.8	1108.2	1072.1	1017.2	946.2	862.8	765.2
127.5°	1016.3	1049.9	1070.4	1076.5	1070.4	1049.9	1016.3	968.3	902.8	824.2	735.9
130°	982.2	1014.4	1033.3	1040.9	1033.3	1014.4	982.2	935.7	873.3	798.4	717.0
132.5°	947.3	979.5	996.9	1003.7	996.9	979.5	947.3	901.6	842.9	774.2	698.8
135°	892.2	923.4	940.4	944.3	940.4	923.4	892.2	851.4	798.4	735.9	673.4
137.5°	838.4	865.3	880.3	885.9	880.3	865.3	838.4	801.3	755.0	705.4	653.1
140°	801.3	825.9	840.1	845.8	840.1	825.9	801.3	770.9	729.3	685.7	640.3
142.5°	769.4	791.8	804.5	805.6	804.5	791.8	769.4	740.6	705.8	668.3	629.7
145°	725.5	741.6	751.1	753.9	751.1	741.6	725.5	702.8	675.3	646.0	614.7
147.5°	689.5	702.4	708.8	710.5	708.8	702.4	689.5	670.7	650.7	627.8	603.2
150°	666.8	678.2	683.8	684.8	683.8	678.2	666.8	652.6	635.5	615.6	594.8
152.5°	648.6	658.4	662.6	662.8	662.6	658.4	648.6	637.4	622.6	605.8	586.4
155°	625.1	631.7	635.5	633.7	635.5	631.7	625.1	614.7	604.2	590.0	574.9
157.5°	601.6	607.1	608.8	608.8	608.8	607.1	601.6	594.2	586.0	574.1	561.4
160°	587.2	591.9	592.9	592.9	592.9	591.9	587.2	580.6	574.0	563.5	553.1
162.5°	574.3	577.6	578.5	577.7	578.5	577.6	574.3	567.7	562.6	553.7	544.8
165°	553.1	556.9	556.9	556.0	556.9	556.9	553.1	549.3	545.5	538.9	532.3
167.5°	535.1	537.2	537.0	535.9	537.0	537.2	535.1	533.5	530.0	525.5	520.3
170°	523.7	526.6	525.6	523.7	525.6	526.6	523.7	522.8	520.9	517.1	514.3
172.5°	514.7	516.0	515.0	513.9	515.0	516.0	514.7	513.7	512.6	509.6	507.4
175°	502.9	503.9	502.9	501.0	502.9	503.9	502.9	502.9	502.0	501.0	500.1
177.5°	495.5	495.5	494.8	493.3	494.8	495.5	495.5	495.5	495.5	494.8	494.8
180°	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5



TEST NUMBER: P331323-930

CATALOG NUMBER: S122DIP-S485D1080U930-4F0-1E-UDD-A4

**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°	9.2	9.6	9.6	8.8	7.4	6.8	6.4	6.3	6.4	5.9	5.5
90°	31.2	32.2	31.2	25.6	18.9	14.2	11.3	9.5	7.6	3.8	1.0
92.5°	104.0	123.1	121.4	94.5	64.4	43.0	34.1	27.6	23.5	16.6	11.6
95°	324.9	371.3	328.6	218.7	136.4	92.8	70.1	55.0	46.4	36.9	33.2
97.5°	664.9	633.8	477.4	294.7	179.9	125.2	99.5	82.0	69.1	59.1	54.0
100°	884.6	748.2	515.2	310.6	195.1	144.9	118.4	99.5	84.3	75.7	72.9
102.5°	966.5	752.0	500.8	311.4	208.7	162.3	135.8	116.1	100.9	92.5	90.3
105°	953.7	701.8	472.6	316.3	232.0	187.5	161.0	140.1	126.0	119.4	115.5
107.5°	870.6	648.0	458.6	329.4	255.9	212.7	186.1	165.3	152.3	145.9	142.8
110°	818.3	622.2	455.6	340.0	271.8	230.2	202.7	182.8	170.5	164.8	161.0



TEST NUMBER: P331323-930

CATALOG NUMBER: S122DIP-S485D1080U930-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	782.0	605.6	456.3	351.4	287.0	246.8	218.6	199.4	187.9	181.5	177.7
115°	736.9	587.2	460.3	368.4	310.6	269.9	244.3	225.4	214.0	208.4	203.7
117.5°	708.4	578.3	467.1	386.6	332.4	294.7	268.2	250.1	240.0	234.3	230.6
120°	693.2	573.0	471.7	398.8	347.6	310.6	284.1	265.2	256.7	250.9	247.2
122.5°	680.4	570.0	477.0	409.4	362.0	327.3	300.0	281.1	271.8	266.1	263.1
125°	662.0	564.5	484.9	426.2	383.6	349.5	322.9	304.0	292.7	287.0	284.1
127.5°	645.0	561.3	493.1	441.9	403.7	370.5	343.2	325.1	312.6	304.6	300.8
130°	633.7	559.7	499.1	451.8	415.8	382.6	356.1	337.2	323.9	314.5	310.6
132.5°	624.5	559.0	505.2	461.6	426.4	394.8	368.3	348.5	334.5	324.3	319.8
135°	611.8	557.8	512.4	474.5	441.3	411.1	384.5	362.7	348.5	337.2	333.4
137.5°	602.9	557.7	518.9	484.4	453.5	423.5	398.9	377.3	362.2	350.8	346.3
140°	597.6	556.9	521.9	489.7	460.3	431.9	407.2	386.5	371.3	359.9	356.1
142.5°	592.3	556.9	524.2	494.2	465.6	438.0	414.8	394.8	379.6	369.0	366.0
145°	585.3	555.0	526.6	500.1	473.5	448.0	427.1	408.2	394.0	384.5	380.7
147.5°	578.1	551.6	527.3	503.3	480.0	455.9	437.4	421.7	408.5	399.5	396.6
150°	572.0	549.3	526.6	504.8	483.1	461.2	444.2	430.0	417.7	410.1	407.2
152.5°	566.7	545.5	525.1	505.6	486.1	466.5	451.0	437.6	426.7	419.2	417.8
155°	556.9	538.9	522.8	506.7	490.6	474.5	460.3	449.9	439.4	433.7	432.8
157.5°	547.6	532.1	518.4	506.7	493.8	480.2	468.2	459.9	450.9	446.3	445.3
160°	540.8	527.6	516.2	506.7	495.4	484.0	473.5	465.9	458.4	454.6	453.6
162.5°	534.8	523.7	513.9	506.0	496.1	486.2	478.1	471.2	465.2	461.5	462.0
165°	524.7	516.2	509.6	503.9	497.3	488.7	483.1	478.3	472.6	470.8	471.7
167.5°	514.9	509.6	505.2	502.6	497.0	490.8	487.2	483.8	480.2	478.5	479.6
170°	509.6	505.7	502.9	501.0	496.3	491.5	488.7	486.8	484.0	483.1	484.9
172.5°	504.3	501.2	499.9	498.7	495.5	492.3	490.2	489.1	486.2	486.8	488.0
175°	497.3	496.3	495.4	496.3	494.4	492.5	491.5	491.5	489.7	490.6	491.5
177.5°	493.3	492.5	493.3	494.8	493.3	492.5	492.5	492.5	491.0	491.7	493.3
180°	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5



TEST NUMBER: P331323-930

CATALOG NUMBER: S122DIP-S485D1080U930-4F0-1E-UDD-A4

**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°	6.8	8.6	9.0	10.0	10.1	11.1	12.4	13.3	13.3	12.8	12.4
90°	3.8	7.6	9.5	11.3	14.2	18.9	25.6	31.2	32.2	31.2	30.3
92.5°	16.6	23.5	27.6	34.1	43.0	64.4	94.5	121.4	123.1	104.0	82.6
95°	36.9	46.4	55.0	70.1	92.8	136.4	218.7	328.6	371.3	324.9	248.2
97.5°	59.1	69.1	82.0	99.5	125.2	179.9	294.7	477.4	633.8	664.9	579.0
100°	75.7	84.3	99.5	118.4	144.9	195.1	310.6	515.2	748.2	884.6	864.7
102.5°	92.5	100.9	116.1	135.8	162.3	208.7	311.4	500.8	752.0	966.5	1051.9
105°	119.4	126.0	140.1	161.0	187.5	232.0	316.3	472.6	701.8	953.7	1150.7
107.5°	145.9	152.3	165.3	186.1	212.7	255.9	329.4	458.6	648.0	870.6	1079.5
110°	164.8	170.5	182.8	202.7	230.2	271.8	340.0	455.6	622.2	818.3	1018.1





TEST NUMBER: P331323-930

CATALOG NUMBER: S122DIP-S485D1080U930-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	181.5	187.9	199.4	218.6	246.8	287.0	351.4	456.3	605.6	782.0	962.1
115°	208.4	214.0	225.4	244.3	269.9	310.6	368.4	460.3	587.2	736.9	893.2
117.5°	234.3	240.0	250.1	268.2	294.7	332.4	386.6	467.1	578.3	708.4	841.2
120°	250.9	256.7	265.2	284.1	310.6	347.6	398.8	471.7	573.0	693.2	815.5
122.5°	266.1	271.8	281.1	300.0	327.3	362.0	409.4	477.0	570.0	680.4	795.0
125°	287.0	292.7	304.0	322.9	349.5	383.6	426.2	484.9	564.5	662.0	765.2
127.5°	304.6	312.6	325.1	343.2	370.5	403.7	441.9	493.1	561.3	645.0	735.9
130°	314.5	323.9	337.2	356.1	382.6	415.8	451.8	499.1	559.7	633.7	717.0
132.5°	324.3	334.5	348.5	368.3	394.8	426.4	461.6	505.2	559.0	624.5	698.8
135°	337.2	348.5	362.7	384.5	411.1	441.3	474.5	512.4	557.8	611.8	673.4
137.5°	350.8	362.2	377.3	398.9	423.5	453.5	484.4	518.9	557.7	602.9	653.1
140°	359.9	371.3	386.5	407.2	431.9	460.3	489.7	521.9	556.9	597.6	640.3
142.5°	369.0	379.6	394.8	414.8	438.0	465.6	494.2	524.2	556.9	592.3	629.7
145°	384.5	394.0	408.2	427.1	448.0	473.5	500.1	526.6	555.0	585.3	614.7
147.5°	399.5	408.5	421.7	437.4	455.9	480.0	503.3	527.3	551.6	578.1	603.2
150°	410.1	417.7	430.0	444.2	461.2	483.1	504.8	526.6	549.3	572.0	594.8
152.5°	419.2	426.7	437.6	451.0	466.5	486.1	505.6	525.1	545.5	566.7	586.4
155°	433.7	439.4	449.9	460.3	474.5	490.6	506.7	522.8	538.9	556.9	574.9
157.5°	446.3	450.9	459.9	468.2	480.2	493.8	506.7	518.4	532.1	547.6	561.4
160°	454.6	458.4	465.9	473.5	484.0	495.4	506.7	516.2	527.6	540.8	553.1
162.5°	461.5	465.2	471.2	478.1	486.2	496.1	506.0	513.9	523.7	534.8	544.8
165°	470.8	472.6	478.3	483.1	488.7	497.3	503.9	509.6	516.2	524.7	532.3
167.5°	478.5	480.2	483.8	487.2	490.8	497.0	502.6	505.2	509.6	514.9	520.3
170°	483.1	484.0	486.8	488.7	491.5	496.3	501.0	502.9	505.7	509.6	514.3
172.5°	486.8	486.2	489.1	490.2	492.3	495.5	498.7	499.9	501.2	504.3	507.4
175°	490.6	489.7	491.5	491.5	492.5	494.4	496.3	495.4	496.3	497.3	500.1
177.5°	491.7	491.0	492.5	492.5	492.5	493.3	494.8	493.3	492.5	493.3	494.8
180°	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	792.2	792.2	792.2	792.2	792.2	792.2	792.2
2.5°	821.7	825.2	825.2	825.7	829.5	829.1	828.8
5°	874.5	879.6	880.3	885.7	889.4	888.2	884.8
7.5°	924.2	933.8	941.2	945.3	950.1	953.0	951.7
10°	963.7	977.7	986.2	992.0	999.0	1004.2	1002.3
12.5°	999.5	1016.2	1027.8	1037.8	1038.7	1045.4	1040.8
15°	1055.3	1073.0	1074.8	1082.1	1087.9	1087.3	1087.6
17.5°	1073.7	1079.5	1080.6	1080.8	1080.8	1078.7	1074.1
20°	1067.2	1065.1	1059.9	1056.0	1049.0	1048.0	1042.0
22.5°	1036.0	1029.2	1016.3	1007.7	996.8	993.9	992.2
25°	974.6	959.7	939.0	919.2	913.7	903.1	906.1
27.5°	890.4	867.2	844.7	828.7	814.2	798.2	802.7
30°	831.2	805.0	773.4	749.0	733.5	718.3	715.5
32.5°	760.6	722.2	686.9	665.4	641.6	632.0	621.5
35°	638.8	601.4	566.3	536.2	518.9	505.4	493.3
37.5°	529.2	486.2	457.9	433.5	420.9	413.3	415.2
40°	461.3	423.5	402.8	384.3	372.7	367.2	368.4
42.5°	406.3	378.0	360.9	348.2	340.1	337.0	336.2
45°	343.7	327.9	313.9	306.6	302.6	299.3	297.2
47.5°	301.2	288.2	280.3	276.0	272.5	269.1	269.0
50°	275.6	267.0	261.5	257.0	254.2	251.8	254.0
52.5°	256.1	248.3	242.8	238.7	237.7	235.5	235.5
55°	227.1	221.0	217.1	213.4	211.7	210.4	208.9
57.5°	200.8	195.0	191.4	189.1	185.6	184.4	183.9
60°	182.1	177.5	173.8	170.8	169.3	166.9	166.9
62.5°	164.8	160.2	156.8	154.5	152.0	151.0	151.2
65°	139.7	136.1	132.7	130.3	129.7	127.9	128.5
67.5°	116.8	114.3	110.8	109.4	108.3	107.3	106.6
70°	101.4	99.0	97.1	95.3	94.4	94.4	94.4
72.5°	88.5	85.5	84.5	82.2	82.7	81.7	80.7
75°	68.5	66.7	65.8	64.8	63.3	63.3	63.3
77.5°	50.4	49.9	48.8	47.8	47.5	47.1	47.3
80°	39.0	38.6	38.1	38.1	37.4	37.2	36.5
82.5°	29.9	29.2	28.8	28.5	28.5	28.4	28.3
85°	17.0	16.5	16.5	16.7	16.1	16.1	16.5
87.5°	12.2	12.6	12.6	12.6	12.8	12.6	12.6
90°	28.5	30.3	31.2	31.2	31.2	31.2	31.2
92.5°	70.8	62.9	57.0	56.3	53.2	54.0	52.5
95°	190.4	150.6	129.7	117.4	109.9	107.0	107.9
97.5°	473.8	371.3	302.9	257.6	234.3	220.5	212.5
100°	747.3	617.5	502.9	424.3	383.6	356.1	339.1
102.5°	1025.3	930.4	809.0	723.6	654.1	619.8	596.7
105°	1257.8	1270.1	1238.8	1180.1	1121.4	1080.7	1067.4
107.5°	1240.7	1339.2	1385.0	1392.4	1389.2	1381.0	1363.4
110°	1187.6	1308.9	1386.6	1427.3	1445.3	1453.8	1452.9



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	1124.8	1254.3	1343.4	1400.0	1430.1	1446.3	1451.3
115°	1039.0	1163.0	1260.6	1327.9	1371.4	1396.0	1404.6
117.5°	969.3	1081.8	1173.3	1241.9	1287.8	1313.9	1321.0
120°	932.9	1033.3	1119.5	1185.8	1230.3	1257.8	1267.2
122.5°	902.6	997.7	1075.5	1135.0	1178.8	1203.2	1211.1
125°	862.8	946.2	1017.2	1072.1	1108.2	1131.8	1139.4
127.5°	824.2	902.8	968.3	1016.3	1049.9	1070.4	1076.5
130°	798.4	873.3	935.7	982.2	1014.4	1033.3	1040.9
132.5°	774.2	842.9	901.6	947.3	979.5	996.9	1003.7
135°	735.9	798.4	851.4	892.2	923.4	940.4	944.3
137.5°	705.4	755.0	801.3	838.4	865.3	880.3	885.9
140°	685.7	729.3	770.9	801.3	825.9	840.1	845.8
142.5°	668.3	705.8	740.6	769.4	791.8	804.5	805.6
145°	646.0	675.3	702.8	725.5	741.6	751.1	753.9
147.5°	627.8	650.7	670.7	689.5	702.4	708.8	710.5
150°	615.6	635.5	652.6	666.8	678.2	683.8	684.8
152.5°	605.8	622.6	637.4	648.6	658.4	662.6	662.8
155°	590.0	604.2	614.7	625.1	631.7	635.5	633.7
157.5°	574.1	586.0	594.2	601.6	607.1	608.8	608.8
160°	563.5	574.0	580.6	587.2	591.9	592.9	592.9
162.5°	553.7	562.6	567.7	574.3	577.6	578.5	577.7
165°	538.9	545.5	549.3	553.1	556.9	556.9	556.0
167.5°	525.5	530.0	533.5	535.1	537.2	537.0	535.9
170°	517.1	520.9	522.8	523.7	526.6	525.6	523.7
172.5°	509.6	512.6	513.7	514.7	516.0	515.0	513.9
175°	501.0	502.0	502.9	502.9	503.9	502.9	501.0
177.5°	494.8	495.5	495.5	495.5	495.5	494.8	493.3
180°	492.5	492.5	492.5	492.5	492.5	492.5	492.5

(END OF REPORT)