

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: P331322-930

Luminaire Tested: **SA2XXDIP-C485D1080U930-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331322-930  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA2XXDIP-C485D1080U930-4F0-1E-UDD-A1  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1080 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

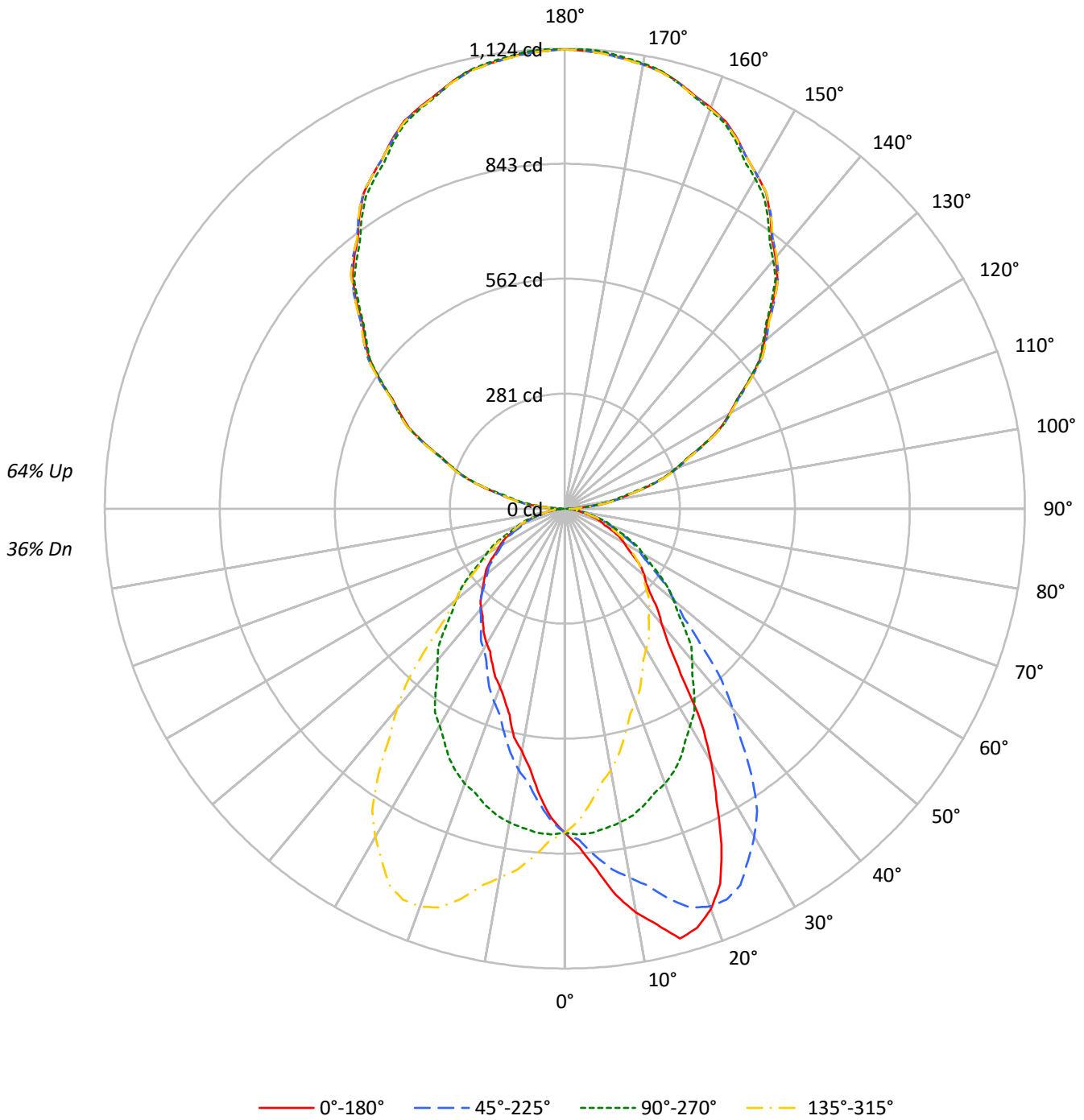
Lumens per Lamp: N/A  
Luminaire Lumens: 4890.3 lumens  
Efficiency: N/A  
Efficacy: 99.0 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Indirect

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	0
RCR																		
0	104	104	104	104	94	94	94	94	75	75	75	59	59	59	43	43	43	36
1	95	91	87	84	86	82	79	76	67	64	62	52	51	49	39	38	37	31
2	87	80	74	69	78	72	67	63	59	55	52	46	44	42	34	33	32	26
3	79	70	63	58	72	64	58	53	52	48	44	41	38	36	31	29	27	23
4	73	62	55	49	66	57	50	45	46	42	38	37	33	31	28	26	24	20
5	67	56	48	42	60	51	44	39	42	37	33	33	30	27	25	23	21	17
6	62	50	42	37	56	46	39	34	38	33	29	30	26	24	23	20	19	15
7	57	45	37	32	51	41	35	30	34	29	25	27	24	21	21	19	17	14
8	53	41	34	28	48	38	31	26	31	26	23	25	21	19	19	17	15	13
9	49	37	30	25	45	34	28	24	29	24	20	23	19	17	18	15	14	11
10	46	34	27	23	42	32	25	21	26	22	18	21	18	15	17	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	4.5
20°-30°	318.3	6.5
30°-40°	335.9	6.9
40°-50°	297.4	6.1
50°-60°	237.4	4.9
60°-70°	161.3	3.3
70°-80°	82.7	1.7
80°-90°	24.4	0.5
90°-100°	71.1	1.5
100°-110°	220.9	4.5
110°-120°	377.5	7.7
120°-130°	496.5	10.2
130°-140°	557.2	11.4
140°-150°	546.4	11.2
150°-160°	458.3	9.4
160°-170°	304.0	6.2
170°-180°	106.2	2.2
0°-30°	613.1	12.5
0°-40°	949.1	19.4
0°-60°	1483.9	30.3
0°-90°	1752.4	35.8
90°-120°	669.5	13.7
90°-150°	2269.5	46.4
90°-180°	3138.0	64.2
0°-180°	4890.3	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°	32	1	32	1	32	15
95°	59	49	59	49	59	65
105°	210	204	210	204	210	221
115°	379	379	379	379	379	374
125°	553	551	553	551	553	493
135°	722	713	722	713	722	555
145°	875	866	875	866	875	546
155°	997	990	997	990	997	459
165°	1078	1077	1078	1077	1078	304
175°	1117	1120	1117	1120	1117	106
180°	1122	1122	1122	1122	1122	



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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	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°	12.8	12.7	13.0	12.6	12.6	12.9	13.0	12.8	13.1	13.5	12.8
90°	32.2	32.0	31.8	31.6	31.4	31.5	31.9	32.3	32.7	33.2	28.5
92.5°	30.7	30.7	30.6	30.6	30.5	30.5	30.3	30.2	30.2	30.1	29.0
95°	58.7	59.1	59.6	60.0	60.4	60.6	60.6	60.6	60.6	60.6	60.2
97.5°	101.7	101.7	101.8	101.8	101.9	101.9	101.9	101.9	101.9	101.9	101.1
100°	129.7	130.0	130.2	130.4	130.6	130.7	130.7	130.7	130.7	130.7	130.0
102.5°	161.6	161.8	162.0	162.2	162.4	162.4	162.2	162.1	161.9	161.8	160.9
105°	210.3	210.3	210.3	210.3	210.3	210.0	209.6	209.2	208.8	208.3	207.9
107.5°	256.1	257.1	258.0	259.0	259.9	260.3	260.2	260.0	259.8	259.7	259.7
110°	291.7	292.3	292.9	293.6	294.2	294.6	294.6	294.6	294.6	294.6	294.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	325.8	326.3	326.7	327.2	327.7	328.2	328.6	329.1	329.6	330.1	330.3
115°	378.8	379.4	380.1	380.7	381.3	381.7	382.0	382.2	382.4	382.6	383.0
117.5°	429.4	430.0	430.6	431.3	431.9	432.5	433.0	433.5	434.0	434.5	435.7
120°	465.0	465.6	466.3	466.9	467.5	467.8	467.8	467.8	467.8	467.8	469.5
122.5°	499.9	500.3	500.8	501.2	501.7	502.1	502.7	503.2	503.7	504.2	505.4
125°	553.1	553.3	553.5	553.7	553.9	554.3	555.0	555.6	556.2	556.8	557.5
127.5°	601.5	602.3	602.9	603.6	604.2	605.0	605.7	606.5	607.2	608.0	608.8
130°	636.4	637.2	638.1	639.0	639.8	640.4	640.8	641.2	641.6	642.1	642.5
132.5°	669.8	670.4	671.1	671.8	672.5	673.3	674.2	675.1	676.0	676.9	676.9
135°	721.6	722.3	722.9	723.5	724.1	724.6	724.8	725.0	725.2	725.5	725.0
137.5°	768.6	769.5	770.3	771.1	772.0	772.5	772.7	772.8	773.0	773.1	772.6
140°	801.2	802.0	802.9	803.7	804.5	804.9	804.9	804.9	804.9	804.9	804.0
142.5°	830.7	831.6	832.4	833.2	834.1	834.5	834.3	834.1	834.0	833.8	833.1
145°	875.1	875.9	876.8	877.6	878.4	878.7	878.6	878.3	878.1	877.9	876.6
147.5°	914.7	915.4	916.2	917.0	917.9	918.0	917.5	917.1	916.6	916.2	915.3
150°	940.4	941.0	941.7	942.3	943.0	943.0	942.3	941.7	941.0	940.4	939.6
152.5°	964.7	965.5	966.3	967.0	967.8	967.8	967.0	966.3	965.5	964.7	963.7
155°	997.2	997.8	998.5	999.1	999.7	999.6	998.5	997.4	996.4	995.3	994.7
157.5°	1025.2	1026.3	1027.3	1028.3	1029.3	1029.1	1027.7	1026.2	1024.8	1023.4	1023.0
160°	1042.7	1043.5	1044.4	1045.2	1046.0	1045.9	1044.6	1043.3	1042.0	1040.8	1040.6
162.5°	1057.9	1058.8	1059.9	1060.9	1061.8	1061.7	1060.2	1058.8	1057.4	1056.0	1055.7
165°	1077.7	1078.8	1079.9	1080.9	1081.9	1081.7	1080.3	1078.8	1077.3	1075.9	1075.9
167.5°	1094.1	1095.1	1096.2	1097.3	1098.4	1098.2	1096.7	1095.3	1093.8	1092.3	1092.3
170°	1102.4	1103.6	1104.9	1106.1	1107.4	1107.3	1105.8	1104.3	1102.9	1101.4	1101.6
172.5°	1109.1	1110.4	1111.7	1113.0	1114.2	1114.1	1112.6	1111.2	1109.7	1108.2	1108.4
175°	1116.6	1117.9	1119.1	1120.4	1121.6	1121.5	1120.1	1118.6	1117.1	1115.6	1116.1
177.5°	1120.0	1121.0	1122.0	1123.0	1124.0	1124.0	1123.0	1122.0	1121.0	1120.0	1120.3
180°	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3



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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°	12.1	11.2	10.3	10.0	8.8	8.2	6.8	5.5	5.8	6.0	6.1
90°	23.9	19.2	14.6	11.1	8.6	6.0	3.5	1.0	3.5	6.0	8.6
92.5°	28.0	26.8	25.8	24.3	22.4	20.5	18.7	16.9	18.7	20.5	22.4
95°	59.8	59.4	58.9	57.6	55.5	53.5	51.4	49.2	51.4	53.5	55.5
97.5°	100.3	99.5	98.7	97.3	95.6	93.7	91.8	90.0	91.8	93.7	95.6
100°	129.4	128.8	128.2	127.0	125.3	123.7	122.0	120.3	122.0	123.7	125.3
102.5°	160.1	159.4	158.6	157.5	156.1	154.8	153.4	152.1	153.4	154.8	156.1
105°	207.5	207.1	206.7	206.1	205.5	204.9	204.2	203.6	204.2	204.9	205.5
107.5°	259.7	259.7	259.7	259.2	258.3	257.4	256.4	255.5	256.4	257.4	258.3
110°	294.6	294.6	294.6	293.9	292.6	291.4	290.1	288.9	290.1	291.4	292.6





TEST NUMBER: P331322-930

CATALOG NUMBER: SA2XXDIP-C485D1080U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	330.4	330.6	330.8	330.3	329.0	327.8	326.4	325.2	326.4	327.8	329.0
115°	383.4	383.8	384.3	383.8	382.6	381.3	380.1	378.8	380.1	381.3	382.6
117.5°	436.8	438.1	439.2	439.0	437.2	435.6	433.9	432.2	433.9	435.6	437.2
120°	471.2	472.9	474.6	474.6	472.9	471.2	469.5	467.8	469.5	471.2	472.9
122.5°	506.5	507.8	508.9	508.5	506.5	504.4	502.5	500.4	502.5	504.4	506.5
125°	558.2	558.7	559.4	558.7	556.8	555.0	553.1	551.1	553.1	555.0	556.8
127.5°	609.5	610.3	611.1	610.2	607.8	605.4	603.0	600.6	603.0	605.4	607.8
130°	642.9	643.4	643.8	642.6	639.8	637.2	634.4	631.7	634.4	637.2	639.8
132.5°	676.8	676.7	676.6	675.5	673.2	671.0	668.8	666.5	668.8	671.0	673.2
135°	724.6	724.1	723.7	722.4	720.1	717.8	715.4	713.1	715.4	717.8	720.1
137.5°	772.1	771.5	770.9	769.7	767.8	766.0	764.1	762.1	764.1	766.0	767.8
140°	802.9	801.8	800.8	799.3	797.4	795.5	793.6	791.7	793.6	795.5	797.4
142.5°	832.3	831.6	830.9	829.6	827.7	825.8	823.9	822.1	823.9	825.8	827.7
145°	875.4	874.1	872.9	871.5	870.0	868.5	867.1	865.6	867.1	868.5	870.0
147.5°	914.5	913.6	912.8	911.5	909.7	907.9	906.2	904.4	906.2	907.9	909.7
150°	938.7	937.9	937.0	936.0	934.7	933.4	932.2	930.9	932.2	933.4	934.7
152.5°	962.6	961.6	960.6	959.4	958.2	956.9	955.7	954.4	955.7	956.9	958.2
155°	994.1	993.4	992.8	992.2	991.6	990.9	990.3	989.7	990.3	990.9	991.6
157.5°	1022.6	1022.2	1021.8	1021.5	1021.0	1020.6	1020.2	1019.8	1020.2	1020.6	1021.0
160°	1040.4	1040.2	1039.9	1039.7	1039.2	1038.8	1038.4	1038.0	1038.4	1038.8	1039.2
162.5°	1055.5	1055.3	1055.1	1055.0	1054.8	1054.8	1054.7	1054.6	1054.7	1054.8	1054.8
165°	1075.9	1075.9	1075.9	1076.0	1076.1	1076.4	1076.6	1076.8	1076.6	1076.4	1076.1
167.5°	1092.4	1092.4	1092.5	1092.8	1093.5	1094.1	1094.7	1095.4	1094.7	1094.1	1093.5
170°	1101.8	1102.0	1102.3	1102.7	1103.3	1103.9	1104.6	1105.2	1104.6	1103.9	1103.3
172.5°	1108.6	1108.9	1109.1	1109.5	1110.1	1110.8	1111.4	1112.0	1111.4	1110.8	1110.1
175°	1116.5	1116.9	1117.3	1117.9	1118.4	1119.1	1119.7	1120.4	1119.7	1119.1	1118.4
177.5°	1120.6	1121.0	1121.3	1121.8	1122.3	1122.7	1123.2	1123.7	1123.2	1122.7	1122.3
180°	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3



TEST NUMBER: P331322-930

CATALOG NUMBER: SA2XXDIP-C485D1080U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2
2.5°	781.8	780.3	775.2	772.5	768.2	764.0	761.3	762.5	763.5	763.0	762.3
5°	759.4	753.6	744.8	737.1	731.6	721.6	717.4	715.3	713.4	711.3	709.1
7.5°	732.7	723.6	710.9	700.1	689.8	677.4	670.3	665.9	661.5	656.7	652.5
10°	713.7	700.9	687.5	672.3	660.1	648.8	638.8	632.1	626.0	620.2	616.0
12.5°	693.7	679.0	662.4	641.6	628.2	612.0	610.6	598.8	589.2	585.6	580.7
15°	661.9	641.2	620.2	595.6	584.9	570.3	561.2	552.0	543.8	538.0	536.5
17.5°	625.8	599.0	578.1	560.4	543.0	528.0	519.6	512.3	505.5	497.7	496.8
20°	598.3	575.2	552.4	536.8	518.9	503.6	493.3	485.9	480.1	475.6	471.7
22.5°	572.3	546.9	526.0	509.0	491.3	479.0	470.8	463.8	459.0	454.0	450.2
25°	530.4	510.6	487.8	468.6	454.0	446.1	439.4	433.3	430.2	426.9	422.7
27.5°	493.8	471.8	450.5	435.6	422.7	415.7	411.0	406.8	404.0	402.0	399.6
30°	468.0	445.7	429.0	414.4	403.7	396.7	393.7	391.3	387.9	386.7	385.5
32.5°	443.1	423.1	408.8	396.2	386.0	381.4	378.6	376.4	373.8	372.6	370.1
35°	408.0	391.3	377.2	370.2	362.0	358.1	356.0	352.9	350.5	349.3	348.9
37.5°	375.0	360.4	351.1	342.2	338.7	336.2	333.4	331.3	330.5	330.4	330.0
40°	353.5	341.6	333.4	326.1	324.6	320.9	318.5	316.7	316.7	317.0	316.7
42.5°	334.0	323.3	316.1	309.8	308.0	305.8	303.4	303.3	303.8	304.8	303.8
45°	304.5	296.9	291.7	288.6	285.3	283.2	282.8	283.8	284.1	284.4	285.3
47.5°	277.3	272.2	267.6	264.2	262.8	262.4	262.0	263.6	265.1	265.6	267.0
50°	261.2	255.4	251.5	249.4	248.2	247.5	248.2	250.0	251.2	252.7	253.6
52.5°	243.2	239.1	236.4	234.7	234.2	234.6	234.7	236.8	238.8	239.3	239.8
55°	218.3	215.2	214.7	211.9	213.1	212.8	214.3	215.6	217.4	219.2	219.6
57.5°	193.5	191.0	189.4	189.6	190.0	191.4	192.6	194.8	196.7	198.6	198.9
60°	176.9	175.7	174.8	174.8	175.4	177.2	178.7	180.8	182.1	183.3	184.2
62.5°	161.8	160.6	159.6	160.1	161.8	162.8	164.6	165.8	167.0	168.2	168.6
65°	137.9	137.3	138.3	138.8	139.2	140.6	142.8	143.7	145.0	145.5	147.7
67.5°	115.9	116.1	115.9	116.8	118.5	119.0	120.9	123.1	123.4	124.5	125.9
70°	101.1	101.7	102.3	102.9	104.4	105.0	106.6	107.5	108.7	109.6	110.6
72.5°	87.5	87.6	88.2	88.1	89.4	90.7	92.0	92.9	94.1	95.2	96.1
75°	67.3	67.3	67.9	68.2	69.7	71.3	70.9	71.6	72.8	74.0	74.6
77.5°	49.2	48.5	49.2	49.4	49.9	51.2	51.4	52.3	53.7	53.3	54.0
80°	37.4	36.5	37.4	37.7	37.7	39.3	39.3	39.9	40.8	39.9	40.8
82.5°	26.7	26.3	27.0	27.1	27.6	27.6	28.0	28.2	29.1	28.7	29.1
85°	13.4	13.1	13.4	13.1	13.4	13.7	13.7	13.4	13.4	14.0	13.1
87.5°	6.4	6.8	7.5	8.4	9.1	9.8	9.5	9.4	9.3	8.7	8.7
90°	11.1	14.6	19.2	23.9	28.5	33.2	32.7	32.3	31.9	31.5	31.4
92.5°	24.3	25.8	26.8	28.0	29.0	30.1	30.2	30.2	30.3	30.5	30.5
95°	57.6	58.9	59.4	59.8	60.2	60.6	60.6	60.6	60.6	60.6	60.4
97.5°	97.3	98.7	99.5	100.3	101.1	101.9	101.9	101.9	101.9	101.9	101.9
100°	127.0	128.2	128.8	129.4	130.0	130.7	130.7	130.7	130.7	130.7	130.6
102.5°	157.5	158.6	159.4	160.1	160.9	161.8	161.9	162.1	162.2	162.4	162.4
105°	206.1	206.7	207.1	207.5	207.9	208.3	208.8	209.2	209.6	210.0	210.3
107.5°	259.2	259.7	259.7	259.7	259.7	259.7	259.8	260.0	260.2	260.3	259.9
110°	293.9	294.6	294.6	294.6	294.6	294.6	294.6	294.6	294.6	294.6	294.2



TEST NUMBER: P331322-930

CATALOG NUMBER: SA2XXDIP-C485D1080U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	330.3	330.8	330.6	330.4	330.3	330.1	329.6	329.1	328.6	328.2	327.7
115°	383.8	384.3	383.8	383.4	383.0	382.6	382.4	382.2	382.0	381.7	381.3
117.5°	439.0	439.2	438.1	436.8	435.7	434.5	434.0	433.5	433.0	432.5	431.9
120°	474.6	474.6	472.9	471.2	469.5	467.8	467.8	467.8	467.8	467.8	467.5
122.5°	508.5	508.9	507.8	506.5	505.4	504.2	503.7	503.2	502.7	502.1	501.7
125°	558.7	559.4	558.7	558.2	557.5	556.8	556.2	555.6	555.0	554.3	553.9
127.5°	610.2	611.1	610.3	609.5	608.8	608.0	607.2	606.5	605.7	605.0	604.2
130°	642.6	643.8	643.4	642.9	642.5	642.1	641.6	641.2	640.8	640.4	639.8
132.5°	675.5	676.6	676.7	676.8	676.9	676.9	676.0	675.1	674.2	673.3	672.5
135°	722.4	723.7	724.1	724.6	725.0	725.5	725.2	725.0	724.8	724.6	724.1
137.5°	769.7	770.9	771.5	772.1	772.6	773.1	773.0	772.8	772.7	772.5	772.0
140°	799.3	800.8	801.8	802.9	804.0	804.9	804.9	804.9	804.9	804.9	804.5
142.5°	829.6	830.9	831.6	832.3	833.1	833.8	834.0	834.1	834.3	834.5	834.1
145°	871.5	872.9	874.1	875.4	876.6	877.9	878.1	878.3	878.6	878.7	878.4
147.5°	911.5	912.8	913.6	914.5	915.3	916.2	916.6	917.1	917.5	918.0	917.9
150°	936.0	937.0	937.9	938.7	939.6	940.4	941.0	941.7	942.3	943.0	943.0
152.5°	959.4	960.6	961.6	962.6	963.7	964.7	965.5	966.3	967.0	967.8	967.8
155°	992.2	992.8	993.4	994.1	994.7	995.3	996.4	997.4	998.5	999.6	999.7
157.5°	1021.5	1021.8	1022.2	1022.6	1023.0	1023.4	1024.8	1026.2	1027.7	1029.1	1029.3
160°	1039.7	1039.9	1040.2	1040.4	1040.6	1040.8	1042.0	1043.3	1044.6	1045.9	1046.0
162.5°	1055.0	1055.1	1055.3	1055.5	1055.7	1056.0	1057.4	1058.8	1060.2	1061.7	1061.8
165°	1076.0	1075.9	1075.9	1075.9	1075.9	1075.9	1077.3	1078.8	1080.3	1081.7	1081.9
167.5°	1092.8	1092.5	1092.4	1092.4	1092.3	1092.3	1093.8	1095.3	1096.7	1098.2	1098.4
170°	1102.7	1102.3	1102.0	1101.8	1101.6	1101.4	1102.9	1104.3	1105.8	1107.3	1107.4
172.5°	1109.5	1109.1	1108.9	1108.6	1108.4	1108.2	1109.7	1111.2	1112.6	1114.1	1114.2
175°	1117.9	1117.3	1116.9	1116.5	1116.1	1115.6	1117.1	1118.6	1120.1	1121.5	1121.6
177.5°	1121.8	1121.3	1121.0	1120.6	1120.3	1120.0	1121.0	1122.0	1123.0	1124.0	1124.0
180°	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3



TEST NUMBER: P331322-930

CATALOG NUMBER: SA2XXDIP-C485D1080U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2
2.5°	759.9	759.4	759.4	757.2	759.4	759.4	759.9	762.3	763.0	763.5	762.5
5°	704.9	703.9	702.5	703.9	702.5	703.9	704.9	709.1	711.3	713.4	715.3
7.5°	650.5	646.9	646.3	642.7	646.3	646.9	650.5	652.5	656.7	661.5	665.9
10°	610.8	608.4	608.1	602.3	608.1	608.4	610.8	616.0	620.2	626.0	632.1
12.5°	580.6	574.7	575.9	572.6	575.9	574.7	580.6	580.7	585.6	589.2	598.8
15°	528.2	528.2	527.1	521.9	527.1	528.2	528.2	536.5	538.0	543.8	552.0
17.5°	490.7	490.1	487.1	488.6	487.1	490.1	490.7	496.8	497.7	505.5	512.3
20°	468.3	466.4	462.8	462.8	462.8	466.4	468.3	471.7	475.6	480.1	485.9
22.5°	447.1	446.9	443.1	444.3	443.1	446.9	447.1	450.2	454.0	459.0	463.8
25°	422.3	419.9	418.1	419.0	418.1	419.9	422.3	422.7	426.9	430.2	433.3
27.5°	398.8	397.5	397.4	394.8	397.4	397.5	398.8	399.6	402.0	404.0	406.8
30°	385.1	382.1	382.7	381.2	382.7	382.1	385.1	385.5	386.7	387.9	391.3
32.5°	369.6	368.5	367.9	366.6	367.9	368.5	369.6	370.1	372.6	373.8	376.4
35°	348.3	348.6	347.1	347.7	347.1	348.6	348.3	348.9	349.3	350.5	352.9
37.5°	329.8	330.8	330.0	330.2	330.0	330.8	329.8	330.0	330.4	330.5	331.3
40°	317.6	317.6	317.6	318.5	317.6	317.6	317.6	316.7	317.0	316.7	316.7
42.5°	305.9	305.4	304.9	304.8	304.9	305.4	305.9	303.8	304.8	303.8	303.3
45°	285.9	286.8	287.1	285.6	287.1	286.8	285.9	285.3	284.4	284.1	283.8
47.5°	267.8	267.9	267.8	269.1	267.8	267.9	267.8	267.0	265.6	265.1	263.6
50°	255.2	254.5	255.2	254.5	255.2	254.5	255.2	253.6	252.7	251.2	250.0
52.5°	241.7	241.9	241.5	241.4	241.5	241.9	241.7	239.8	239.3	238.8	236.8
55°	220.8	221.4	221.0	221.0	221.0	221.4	220.8	219.6	219.2	217.4	215.6
57.5°	199.0	199.6	200.0	198.6	200.0	199.6	199.0	198.9	198.6	196.7	194.8
60°	183.9	185.4	185.2	184.5	185.2	185.4	183.9	184.2	183.3	182.1	180.8
62.5°	170.0	170.6	170.5	170.4	170.5	170.6	170.0	168.6	168.2	167.0	165.8
65°	148.5	149.2	148.3	149.2	148.3	149.2	148.5	147.7	145.5	145.0	143.7
67.5°	125.5	125.7	126.4	126.8	126.4	125.7	125.5	125.9	124.5	123.4	123.1
70°	111.1	110.8	111.8	112.7	111.8	110.8	111.1	110.6	109.6	108.7	107.5
72.5°	96.0	96.7	96.4	97.1	96.4	96.7	96.0	96.1	95.2	94.1	92.9
75°	74.0	74.9	74.6	75.5	74.6	74.9	74.0	74.6	74.0	72.8	71.6
77.5°	53.5	53.6	53.5	54.0	53.5	53.6	53.5	54.0	53.3	53.7	52.3
80°	40.8	40.2	39.5	40.8	39.5	40.2	40.8	40.8	39.9	40.8	39.9
82.5°	28.4	28.8	28.1	28.1	28.1	28.8	28.4	29.1	28.7	29.1	28.2
85°	13.1	12.8	12.1	12.1	12.1	12.8	13.1	13.1	14.0	13.4	13.4
87.5°	8.7	8.6	8.6	8.4	8.6	8.6	8.7	8.7	8.7	9.3	9.4
90°	31.6	31.8	32.0	32.2	32.0	31.8	31.6	31.4	31.5	31.9	32.3
92.5°	30.6	30.6	30.7	30.7	30.7	30.6	30.6	30.5	30.5	30.3	30.2
95°	60.0	59.6	59.1	58.7	59.1	59.6	60.0	60.4	60.6	60.6	60.6
97.5°	101.8	101.8	101.7	101.7	101.7	101.8	101.8	101.9	101.9	101.9	101.9
100°	130.4	130.2	130.0	129.7	130.0	130.2	130.4	130.6	130.7	130.7	130.7
102.5°	162.2	162.0	161.8	161.6	161.8	162.0	162.2	162.4	162.4	162.2	162.1
105°	210.3	210.3	210.3	210.3	210.3	210.3	210.3	210.3	210.0	209.6	209.2
107.5°	259.0	258.0	257.1	256.1	257.1	258.0	259.0	259.9	260.3	260.2	260.0
110°	293.6	292.9	292.3	291.7	292.3	292.9	293.6	294.2	294.6	294.6	294.6



TEST NUMBER: P331322-930

CATALOG NUMBER: SA2XXDIP-C485D1080U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	327.2	326.7	326.3	325.8	326.3	326.7	327.2	327.7	328.2	328.6	329.1
115°	380.7	380.1	379.4	378.8	379.4	380.1	380.7	381.3	381.7	382.0	382.2
117.5°	431.3	430.6	430.0	429.4	430.0	430.6	431.3	431.9	432.5	433.0	433.5
120°	466.9	466.3	465.6	465.0	465.6	466.3	466.9	467.5	467.8	467.8	467.8
122.5°	501.2	500.8	500.3	499.9	500.3	500.8	501.2	501.7	502.1	502.7	503.2
125°	553.7	553.5	553.3	553.1	553.3	553.5	553.7	553.9	554.3	555.0	555.6
127.5°	603.6	602.9	602.3	601.5	602.3	602.9	603.6	604.2	605.0	605.7	606.5
130°	639.0	638.1	637.2	636.4	637.2	638.1	639.0	639.8	640.4	640.8	641.2
132.5°	671.8	671.1	670.4	669.8	670.4	671.1	671.8	672.5	673.3	674.2	675.1
135°	723.5	722.9	722.3	721.6	722.3	722.9	723.5	724.1	724.6	724.8	725.0
137.5°	771.1	770.3	769.5	768.6	769.5	770.3	771.1	772.0	772.5	772.7	772.8
140°	803.7	802.9	802.0	801.2	802.0	802.9	803.7	804.5	804.9	804.9	804.9
142.5°	833.2	832.4	831.6	830.7	831.6	832.4	833.2	834.1	834.5	834.3	834.1
145°	877.6	876.8	875.9	875.1	875.9	876.8	877.6	878.4	878.7	878.6	878.3
147.5°	917.0	916.2	915.4	914.7	915.4	916.2	917.0	917.9	918.0	917.5	917.1
150°	942.3	941.7	941.0	940.4	941.0	941.7	942.3	943.0	943.0	942.3	941.7
152.5°	967.0	966.3	965.5	964.7	965.5	966.3	967.0	967.8	967.8	967.0	966.3
155°	999.1	998.5	997.8	997.2	997.8	998.5	999.1	999.7	999.6	998.5	997.4
157.5°	1028.3	1027.3	1026.3	1025.2	1026.3	1027.3	1028.3	1029.3	1029.1	1027.7	1026.2
160°	1045.2	1044.4	1043.5	1042.7	1043.5	1044.4	1045.2	1046.0	1045.9	1044.6	1043.3
162.5°	1060.9	1059.9	1058.8	1057.9	1058.8	1059.9	1060.9	1061.8	1061.7	1060.2	1058.8
165°	1080.9	1079.9	1078.8	1077.7	1078.8	1079.9	1080.9	1081.9	1081.7	1080.3	1078.8
167.5°	1097.3	1096.2	1095.1	1094.1	1095.1	1096.2	1097.3	1098.4	1098.2	1096.7	1095.3
170°	1106.1	1104.9	1103.6	1102.4	1103.6	1104.9	1106.1	1107.4	1107.3	1105.8	1104.3
172.5°	1113.0	1111.7	1110.4	1109.1	1110.4	1111.7	1113.0	1114.2	1114.1	1112.6	1111.2
175°	1120.4	1119.1	1117.9	1116.6	1117.9	1119.1	1120.4	1121.6	1121.5	1120.1	1118.6
177.5°	1123.0	1122.0	1121.0	1120.0	1121.0	1122.0	1123.0	1124.0	1124.0	1123.0	1122.0
180°	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3



TEST NUMBER: P331322-930

CATALOG NUMBER: SA2XXDIP-C485D1080U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2
2.5°	761.3	764.0	768.2	772.5	775.2	780.3	781.8	784.2	786.4	791.5	796.9
5°	717.4	721.6	731.6	737.1	744.8	753.6	759.4	765.5	772.2	783.7	794.4
7.5°	670.3	677.4	689.8	700.1	710.9	723.6	732.7	744.8	754.7	771.0	786.7
10°	638.8	648.8	660.1	672.3	687.5	700.9	713.7	729.0	741.1	760.6	778.9
12.5°	610.6	612.0	628.2	641.6	662.4	679.0	693.7	713.3	725.3	748.4	767.7
15°	561.2	570.3	584.9	595.6	620.2	641.2	661.9	682.3	696.0	724.6	749.9
17.5°	519.6	528.0	543.0	560.4	578.1	599.0	625.8	647.3	665.9	698.6	728.6
20°	493.3	503.6	518.9	536.8	552.4	575.2	598.3	623.0	643.0	679.9	714.9
22.5°	470.8	479.0	491.3	509.0	526.0	546.9	572.3	599.1	620.2	659.9	695.5
25°	439.4	446.1	454.0	468.6	487.8	510.6	530.4	559.9	590.7	627.9	670.7
27.5°	411.0	415.7	422.7	435.6	450.5	471.8	493.8	521.8	552.8	593.0	638.4
30°	393.7	396.7	403.7	414.4	429.0	445.7	468.0	494.8	526.4	567.3	612.3
32.5°	378.6	381.4	386.0	396.2	408.8	423.1	443.1	469.9	500.1	540.2	590.1
35°	356.0	358.1	362.0	370.2	377.2	391.3	408.0	432.4	460.6	499.0	550.8
37.5°	333.4	336.2	338.7	342.2	351.1	360.4	375.0	395.5	423.3	462.0	511.4
40°	318.5	320.9	324.6	326.1	333.4	341.6	353.5	372.3	400.4	435.7	483.8
42.5°	303.4	305.8	308.0	309.8	316.1	323.3	334.0	350.3	375.0	409.4	457.1
45°	282.8	283.2	285.3	288.6	291.7	296.9	304.5	318.5	337.7	370.0	413.2
47.5°	262.0	262.4	262.8	264.2	267.6	272.2	277.3	288.7	305.9	331.7	373.7
50°	248.2	247.5	248.2	249.4	251.5	255.4	261.2	269.5	283.5	307.5	346.2
52.5°	234.7	234.6	234.2	234.7	236.4	239.1	243.2	250.2	262.8	284.9	318.9
55°	214.3	212.8	213.1	211.9	214.7	215.2	218.3	224.1	235.1	250.3	282.3
57.5°	192.6	191.4	190.0	189.6	189.4	191.0	193.5	198.0	206.4	219.8	245.7
60°	178.7	177.2	175.4	174.8	174.8	175.7	176.9	180.3	188.2	200.1	221.4
62.5°	164.6	162.8	161.8	160.1	159.6	160.6	161.8	164.2	169.9	181.1	199.4
65°	142.8	140.6	139.2	138.8	138.3	137.3	137.9	140.4	145.0	153.8	168.4
67.5°	120.9	119.0	118.5	116.8	115.9	116.1	115.9	118.1	120.7	128.3	139.3
70°	106.6	105.0	104.4	102.9	102.3	101.7	101.1	102.9	105.7	112.0	121.5
72.5°	92.0	90.7	89.4	88.1	88.2	87.6	87.5	88.5	90.8	96.7	104.0
75°	70.9	71.3	69.7	68.2	67.9	67.3	67.3	68.2	69.1	73.7	79.5
77.5°	51.4	51.2	49.9	49.4	49.2	48.5	49.2	49.7	50.2	53.3	57.6
80°	39.3	39.3	37.7	37.7	37.4	36.5	37.4	36.9	38.1	41.1	44.2
82.5°	28.0	27.6	27.6	27.1	27.0	26.3	26.7	27.3	27.8	29.9	31.7
85°	13.7	13.7	13.4	13.1	13.4	13.1	13.4	13.7	14.0	14.9	16.5
87.5°	9.5	9.8	9.1	8.4	7.5	6.8	6.4	6.1	6.0	5.8	5.5
90°	32.7	33.2	28.5	23.9	19.2	14.6	11.1	8.6	6.0	3.5	1.0
92.5°	30.2	30.1	29.0	28.0	26.8	25.8	24.3	22.4	20.5	18.7	16.9
95°	60.6	60.6	60.2	59.8	59.4	58.9	57.6	55.5	53.5	51.4	49.2
97.5°	101.9	101.9	101.1	100.3	99.5	98.7	97.3	95.6	93.7	91.8	90.0
100°	130.7	130.7	130.0	129.4	128.8	128.2	127.0	125.3	123.7	122.0	120.3
102.5°	161.9	161.8	160.9	160.1	159.4	158.6	157.5	156.1	154.8	153.4	152.1
105°	208.8	208.3	207.9	207.5	207.1	206.7	206.1	205.5	204.9	204.2	203.6
107.5°	259.8	259.7	259.7	259.7	259.7	259.7	259.2	258.3	257.4	256.4	255.5
110°	294.6	294.6	294.6	294.6	294.6	294.6	293.9	292.6	291.4	290.1	288.9



TEST NUMBER: P331322-930

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	329.6	330.1	330.3	330.4	330.6	330.8	330.3	329.0	327.8	326.4	325.2
115°	382.4	382.6	383.0	383.4	383.8	384.3	383.8	382.6	381.3	380.1	378.8
117.5°	434.0	434.5	435.7	436.8	438.1	439.2	439.0	437.2	435.6	433.9	432.2
120°	467.8	467.8	469.5	471.2	472.9	474.6	474.6	472.9	471.2	469.5	467.8
122.5°	503.7	504.2	505.4	506.5	507.8	508.9	508.5	506.5	504.4	502.5	500.4
125°	556.2	556.8	557.5	558.2	558.7	559.4	558.7	556.8	555.0	553.1	551.1
127.5°	607.2	608.0	608.8	609.5	610.3	611.1	610.2	607.8	605.4	603.0	600.6
130°	641.6	642.1	642.5	642.9	643.4	643.8	642.6	639.8	637.2	634.4	631.7
132.5°	676.0	676.9	676.9	676.8	676.7	676.6	675.5	673.2	671.0	668.8	666.5
135°	725.2	725.5	725.0	724.6	724.1	723.7	722.4	720.1	717.8	715.4	713.1
137.5°	773.0	773.1	772.6	772.1	771.5	770.9	769.7	767.8	766.0	764.1	762.1
140°	804.9	804.9	804.0	802.9	801.8	800.8	799.3	797.4	795.5	793.6	791.7
142.5°	834.0	833.8	833.1	832.3	831.6	830.9	829.6	827.7	825.8	823.9	822.1
145°	878.1	877.9	876.6	875.4	874.1	872.9	871.5	870.0	868.5	867.1	865.6
147.5°	916.6	916.2	915.3	914.5	913.6	912.8	911.5	909.7	907.9	906.2	904.4
150°	941.0	940.4	939.6	938.7	937.9	937.0	936.0	934.7	933.4	932.2	930.9
152.5°	965.5	964.7	963.7	962.6	961.6	960.6	959.4	958.2	956.9	955.7	954.4
155°	996.4	995.3	994.7	994.1	993.4	992.8	992.2	991.6	990.9	990.3	989.7
157.5°	1024.8	1023.4	1023.0	1022.6	1022.2	1021.8	1021.5	1021.0	1020.6	1020.2	1019.8
160°	1042.0	1040.8	1040.6	1040.4	1040.2	1039.9	1039.7	1039.2	1038.8	1038.4	1038.0
162.5°	1057.4	1056.0	1055.7	1055.5	1055.3	1055.1	1055.0	1054.8	1054.8	1054.7	1054.6
165°	1077.3	1075.9	1075.9	1075.9	1075.9	1075.9	1076.0	1076.1	1076.4	1076.6	1076.8
167.5°	1093.8	1092.3	1092.3	1092.4	1092.4	1092.5	1092.8	1093.5	1094.1	1094.7	1095.4
170°	1102.9	1101.4	1101.6	1101.8	1102.0	1102.3	1102.7	1103.3	1103.9	1104.6	1105.2
172.5°	1109.7	1108.2	1108.4	1108.6	1108.9	1109.1	1109.5	1110.1	1110.8	1111.4	1112.0
175°	1117.1	1115.6	1116.1	1116.5	1116.9	1117.3	1117.9	1118.4	1119.1	1119.7	1120.4
177.5°	1121.0	1120.0	1120.3	1120.6	1121.0	1121.3	1121.8	1122.3	1122.7	1123.2	1123.7
180°	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3



TEST NUMBER: P331322-930

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**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	8.2	8.8	10.0	10.3	11.2	12.1	12.8	13.5	13.1	12.8
90°	3.5	6.0	8.6	11.1	14.6	19.2	23.9	28.5	33.2	32.7	32.3
92.5°	18.7	20.5	22.4	24.3	25.8	26.8	28.0	29.0	30.1	30.2	30.2
95°	51.4	53.5	55.5	57.6	58.9	59.4	59.8	60.2	60.6	60.6	60.6
97.5°	91.8	93.7	95.6	97.3	98.7	99.5	100.3	101.1	101.9	101.9	101.9
100°	122.0	123.7	125.3	127.0	128.2	128.8	129.4	130.0	130.7	130.7	130.7
102.5°	153.4	154.8	156.1	157.5	158.6	159.4	160.1	160.9	161.8	161.9	162.1
105°	204.2	204.9	205.5	206.1	206.7	207.1	207.5	207.9	208.3	208.8	209.2
107.5°	256.4	257.4	258.3	259.2	259.7	259.7	259.7	259.7	259.7	259.8	260.0
110°	290.1	291.4	292.6	293.9	294.6	294.6	294.6	294.6	294.6	294.6	294.6





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	326.4	327.8	329.0	330.3	330.8	330.6	330.4	330.3	330.1	329.6	329.1
115°	380.1	381.3	382.6	383.8	384.3	383.8	383.4	383.0	382.6	382.4	382.2
117.5°	433.9	435.6	437.2	439.0	439.2	438.1	436.8	435.7	434.5	434.0	433.5
120°	469.5	471.2	472.9	474.6	474.6	472.9	471.2	469.5	467.8	467.8	467.8
122.5°	502.5	504.4	506.5	508.5	508.9	507.8	506.5	505.4	504.2	503.7	503.2
125°	553.1	555.0	556.8	558.7	559.4	558.7	558.2	557.5	556.8	556.2	555.6
127.5°	603.0	605.4	607.8	610.2	611.1	610.3	609.5	608.8	608.0	607.2	606.5
130°	634.4	637.2	639.8	642.6	643.8	643.4	642.9	642.5	642.1	641.6	641.2
132.5°	668.8	671.0	673.2	675.5	676.6	676.7	676.8	676.9	676.9	676.0	675.1
135°	715.4	717.8	720.1	722.4	723.7	724.1	724.6	725.0	725.5	725.2	725.0
137.5°	764.1	766.0	767.8	769.7	770.9	771.5	772.1	772.6	773.1	773.0	772.8
140°	793.6	795.5	797.4	799.3	800.8	801.8	802.9	804.0	804.9	804.9	804.9
142.5°	823.9	825.8	827.7	829.6	830.9	831.6	832.3	833.1	833.8	834.0	834.1
145°	867.1	868.5	870.0	871.5	872.9	874.1	875.4	876.6	877.9	878.1	878.3
147.5°	906.2	907.9	909.7	911.5	912.8	913.6	914.5	915.3	916.2	916.6	917.1
150°	932.2	933.4	934.7	936.0	937.0	937.9	938.7	939.6	940.4	941.0	941.7
152.5°	955.7	956.9	958.2	959.4	960.6	961.6	962.6	963.7	964.7	965.5	966.3
155°	990.3	990.9	991.6	992.2	992.8	993.4	994.1	994.7	995.3	996.4	997.4
157.5°	1020.2	1020.6	1021.0	1021.5	1021.8	1022.2	1022.6	1023.0	1023.4	1024.8	1026.2
160°	1038.4	1038.8	1039.2	1039.7	1039.9	1040.2	1040.4	1040.6	1040.8	1042.0	1043.3
162.5°	1054.7	1054.8	1054.8	1055.0	1055.1	1055.3	1055.5	1055.7	1056.0	1057.4	1058.8
165°	1076.6	1076.4	1076.1	1076.0	1075.9	1075.9	1075.9	1075.9	1075.9	1077.3	1078.8
167.5°	1094.7	1094.1	1093.5	1092.8	1092.5	1092.4	1092.4	1092.3	1092.3	1093.8	1095.3
170°	1104.6	1103.9	1103.3	1102.7	1102.3	1102.0	1101.8	1101.6	1101.4	1102.9	1104.3
172.5°	1111.4	1110.8	1110.1	1109.5	1109.1	1108.9	1108.6	1108.4	1108.2	1109.7	1111.2
175°	1119.7	1119.1	1118.4	1117.9	1117.3	1116.9	1116.5	1116.1	1115.6	1117.1	1118.6
177.5°	1123.2	1122.7	1122.3	1121.8	1121.3	1121.0	1120.6	1120.3	1120.0	1121.0	1122.0
180°	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3



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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°	13.0	12.9	12.6	12.6	13.0	12.7	12.8
90°	31.9	31.5	31.4	31.6	31.8	32.0	32.2
92.5°	30.3	30.5	30.5	30.6	30.6	30.7	30.7
95°	60.6	60.6	60.4	60.0	59.6	59.1	58.7
97.5°	101.9	101.9	101.9	101.8	101.8	101.7	101.7
100°	130.7	130.7	130.6	130.4	130.2	130.0	129.7
102.5°	162.2	162.4	162.4	162.2	162.0	161.8	161.6
105°	209.6	210.0	210.3	210.3	210.3	210.3	210.3
107.5°	260.2	260.3	259.9	259.0	258.0	257.1	256.1
110°	294.6	294.6	294.2	293.6	292.9	292.3	291.7



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	328.6	328.2	327.7	327.2	326.7	326.3	325.8
115°	382.0	381.7	381.3	380.7	380.1	379.4	378.8
117.5°	433.0	432.5	431.9	431.3	430.6	430.0	429.4
120°	467.8	467.8	467.5	466.9	466.3	465.6	465.0
122.5°	502.7	502.1	501.7	501.2	500.8	500.3	499.9
125°	555.0	554.3	553.9	553.7	553.5	553.3	553.1
127.5°	605.7	605.0	604.2	603.6	602.9	602.3	601.5
130°	640.8	640.4	639.8	639.0	638.1	637.2	636.4
132.5°	674.2	673.3	672.5	671.8	671.1	670.4	669.8
135°	724.8	724.6	724.1	723.5	722.9	722.3	721.6
137.5°	772.7	772.5	772.0	771.1	770.3	769.5	768.6
140°	804.9	804.9	804.5	803.7	802.9	802.0	801.2
142.5°	834.3	834.5	834.1	833.2	832.4	831.6	830.7
145°	878.6	878.7	878.4	877.6	876.8	875.9	875.1
147.5°	917.5	918.0	917.9	917.0	916.2	915.4	914.7
150°	942.3	943.0	943.0	942.3	941.7	941.0	940.4
152.5°	967.0	967.8	967.8	967.0	966.3	965.5	964.7
155°	998.5	999.6	999.7	999.1	998.5	997.8	997.2
157.5°	1027.7	1029.1	1029.3	1028.3	1027.3	1026.3	1025.2
160°	1044.6	1045.9	1046.0	1045.2	1044.4	1043.5	1042.7
162.5°	1060.2	1061.7	1061.8	1060.9	1059.9	1058.8	1057.9
165°	1080.3	1081.7	1081.9	1080.9	1079.9	1078.8	1077.7
167.5°	1096.7	1098.2	1098.4	1097.3	1096.2	1095.1	1094.1
170°	1105.8	1107.3	1107.4	1106.1	1104.9	1103.6	1102.4
172.5°	1112.6	1114.1	1114.2	1113.0	1111.7	1110.4	1109.1
175°	1120.1	1121.5	1121.6	1120.4	1119.1	1117.9	1116.6
177.5°	1123.0	1124.0	1124.0	1123.0	1122.0	1121.0	1120.0
180°	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3	1122.3

(END OF REPORT)