

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: P331657-940

Luminaire Tested: **SA2XXRDIP-C485D725U940-4F0-1E-UDD-A**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331657-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-C485D725U940-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 725 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4241.8 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

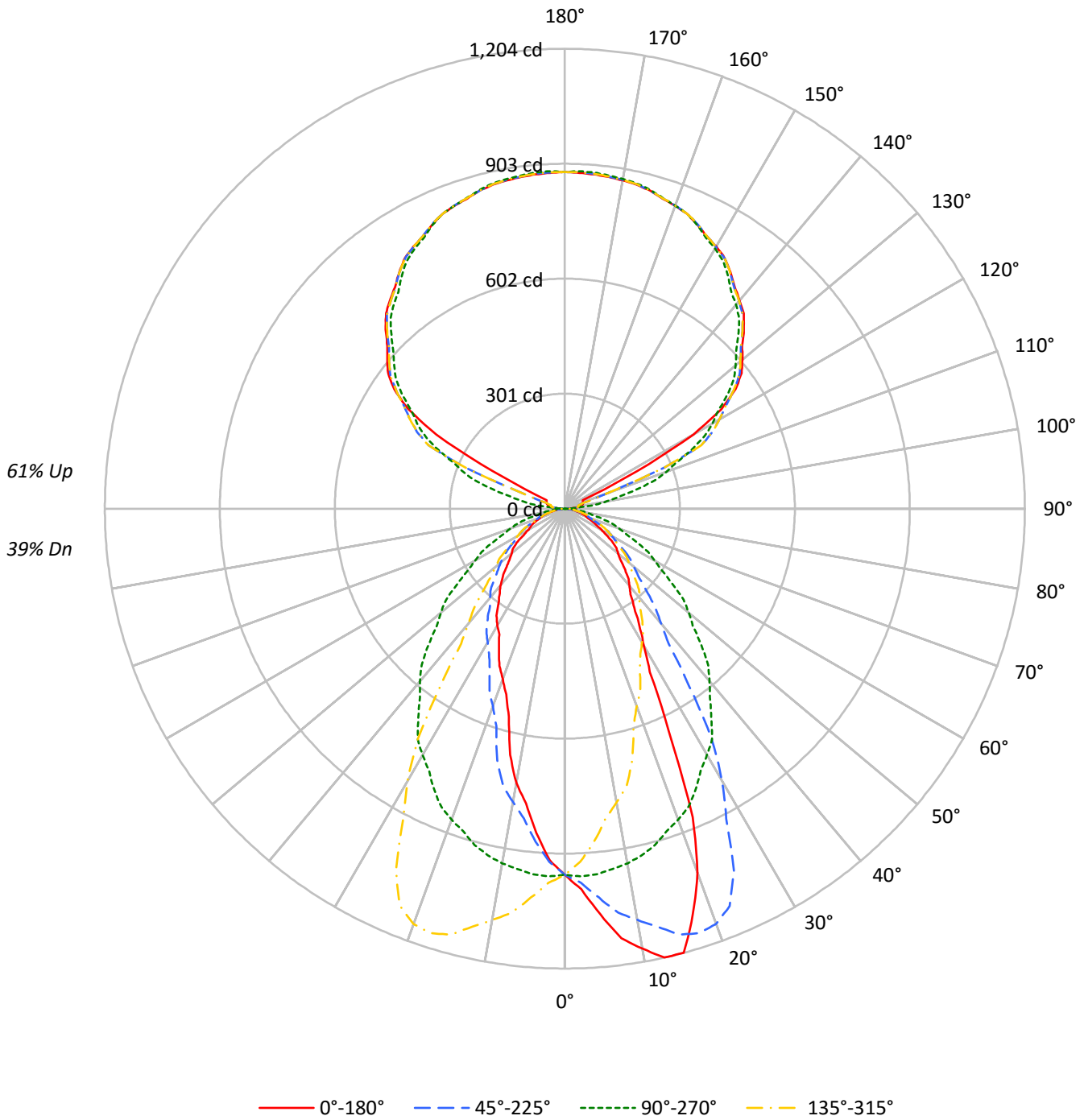
Input Watts (W): 38.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	96	92	88	85	87	84	81	78	69	66	65	55	53	52	42	41	40	34
2	88	81	75	70	80	74	69	65	61	57	54	49	46	44	37	36	35	30
3	81	72	65	59	73	66	60	55	54	50	47	44	41	38	34	32	30	26
4	74	64	57	51	67	59	52	47	49	44	40	39	36	33	31	28	27	23
5	68	57	50	44	62	53	46	41	44	39	35	36	32	29	28	26	24	20
6	63	52	44	38	57	47	41	36	40	35	31	32	29	26	26	23	21	18
7	58	47	39	34	53	43	37	32	36	31	28	30	26	23	24	21	19	17
8	54	43	35	30	49	39	33	28	33	28	25	27	24	21	22	19	17	15
9	51	39	32	27	46	36	30	25	31	26	22	25	22	19	20	18	16	14
10	47	36	29	24	43	33	27	23	28	23	20	23	20	17	19	16	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15474	15474	15474	15474
5°	17280	15571	13807	15571
10°	19174	15462	11968	15462
15°	20117	15234	9429	15234
20°	17438	14899	8158	14899
25°	11437	14439	7285	14439
30°	7700	13882	6594	13882
35°	6236	13180	5947	13180
40°	5545	12416	5503	12416
45°	5019	11520	4912	11520
50°	4567	10630	4549	10630
55°	4293	9647	4236	9647
60°	3591	8741	3549	8741
65°	3030	7939	3435	7939
70°	2799	7091	3238	7091
75°	2620	6170	2994	6170
80°	2408	5077	2659	5077
85°	2205	4020	2353	4020



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.8	2.1
10°-20°	253.1	6.0
20°-30°	326.2	7.7
30°-40°	310.0	7.3
40°-50°	265.6	6.3
50°-60°	202.2	4.8
60°-70°	127.8	3.0
70°-80°	63.8	1.5
80°-90°	18.8	0.4
90°-100°	29.4	0.7
100°-110°	107.8	2.5
110°-120°	288.3	6.8
120°-130°	475.8	11.2
130°-140°	506.0	11.9
140°-150°	470.3	11.1
150°-160°	378.1	8.9
160°-170°	243.7	5.7
170°-180°	83.9	2.0
0°-30°	670.2	15.8
0°-40°	980.2	23.1
0°-60°	1448.0	34.1
0°-90°	1658.4	39.1
90°-120°	425.5	10.0
90°-150°	1877.7	44.3
90°-180°	2583.0	60.9
0°-180°	4241.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	958	958	958	958	958	
5°	1066	961	852	961	1066	105
15°	1204	911	564	911	1204	325
25°	642	810	409	810	642	305
35°	316	669	302	669	316	202
45°	220	504	215	504	220	170
55°	152	343	150	343	152	134
65°	79	208	90	208	79	81
75°	42	99	48	99	42	45
85°	12	22	13	22	12	13
90°	17	1	17	1	17	8
95°	28	42	28	42	28	26
105°	48	194	48	194	48	50
115°	52	367	52	367	52	131
125°	545	519	545	519	545	472
135°	663	642	663	642	663	511
145°	756	744	756	744	756	473
155°	820	820	820	820	820	379
165°	862	864	862	864	862	243
175°	878	883	878	883	878	84
180°	882	882	882	882	882	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4
2.5°	997.3	998.1	998.9	997.0	997.0	995.4	991.9	989.3	981.8	980.7	980.7
5°	1066.2	1065.6	1066.9	1062.6	1056.6	1055.3	1048.9	1040.6	1032.0	1022.3	1020.3
7.5°	1134.9	1133.9	1131.2	1130.4	1125.9	1115.8	1105.6	1094.8	1080.4	1066.3	1059.3
10°	1169.5	1180.4	1173.8	1162.2	1164.5	1148.9	1140.5	1126.2	1114.2	1093.2	1088.6
12.5°	1203.5	1207.9	1205.8	1199.2	1196.2	1185.4	1174.1	1161.6	1139.5	1120.7	1104.3
15°	1203.5	1209.8	1211.5	1209.4	1211.1	1210.4	1204.4	1194.1	1174.8	1154.1	1136.2
17.5°	1114.6	1119.0	1129.9	1137.3	1146.7	1166.4	1176.1	1179.9	1177.0	1165.2	1152.5
20°	1014.9	1007.6	1038.3	1053.9	1067.3	1100.5	1129.2	1140.1	1157.8	1157.5	1154.1
22.5°	873.8	875.5	904.6	923.1	962.1	995.3	1028.0	1069.3	1103.5	1126.1	1139.2
25°	642.0	654.7	683.7	708.9	752.2	814.2	870.5	935.8	997.3	1046.0	1092.3
27.5°	482.1	483.1	506.0	529.5	555.2	605.9	676.8	754.7	842.6	915.0	998.4
30°	413.0	410.9	420.6	434.9	456.9	496.1	549.5	626.1	713.6	822.9	920.1
32.5°	363.9	364.0	371.3	381.9	400.1	426.6	463.2	525.3	608.1	715.5	829.5
35°	316.4	316.0	321.4	329.0	336.6	353.7	378.6	411.3	468.2	568.5	685.0
37.5°	282.2	283.7	286.3	291.1	299.5	309.0	324.0	345.9	386.5	445.8	543.7
40°	263.1	263.8	267.4	271.4	276.4	283.7	296.0	313.7	343.3	390.6	462.2
42.5°	245.5	246.1	248.8	252.4	256.4	263.8	273.9	289.2	313.3	350.1	409.2
45°	219.8	219.8	222.1	223.7	228.1	234.8	243.1	255.7	272.4	299.7	339.0
47.5°	195.6	195.7	197.2	200.1	202.9	208.0	216.2	226.6	238.7	259.8	293.4
50°	181.8	182.2	183.2	185.5	187.2	191.8	198.1	207.1	219.8	236.1	264.0
52.5°	170.6	170.4	171.7	172.7	173.8	177.2	181.9	189.8	201.2	215.3	238.5
55°	152.5	151.1	153.2	154.8	155.9	157.2	159.8	164.9	174.5	186.5	203.8
57.5°	129.8	129.3	130.7	132.2	135.4	139.0	141.2	144.5	149.5	158.0	175.2
60°	111.2	111.2	114.2	115.2	118.9	123.5	128.2	130.9	135.9	141.5	154.2
62.5°	94.7	95.0	96.4	97.4	99.4	105.1	111.7	117.5	122.3	127.7	136.1
65°	79.3	79.9	79.9	80.6	81.9	83.3	85.9	90.6	98.9	106.6	112.9
67.5°	67.2	67.5	67.7	68.3	68.7	70.1	71.2	73.3	75.2	82.5	90.3
70°	59.3	60.3	59.9	60.6	60.9	61.6	63.0	63.9	67.0	68.6	73.3
72.5°	51.8	52.5	52.5	52.9	53.8	53.9	54.9	55.9	57.9	59.3	61.8
75°	42.0	41.6	42.0	42.6	43.0	43.2	43.2	44.6	45.7	47.0	48.6
77.5°	32.4	32.7	32.6	32.7	32.7	33.3	33.3	33.9	34.9	35.6	36.4
80°	25.9	26.3	25.9	26.3	26.7	26.9	26.7	26.9	28.0	28.6	28.6
82.5°	20.2	20.2	20.4	20.4	20.5	20.6	21.0	21.1	21.8	21.7	21.9
85°	11.9	11.7	11.7	11.7	11.9	12.3	11.9	11.9	12.3	12.3	12.3
87.5°	7.7	7.9	7.8	7.8	7.8	7.7	7.5	7.7	7.2	7.3	6.9
90°	17.2	16.9	16.7	16.4	16.1	15.6	14.9	14.2	13.5	12.8	11.6
92.5°	17.2	17.0	16.9	16.7	16.6	16.2	15.9	15.5	15.2	14.8	14.3
95°	27.5	27.6	27.7	27.8	28.0	27.7	27.0	26.3	25.6	24.9	23.9
97.5°	36.6	36.5	36.3	36.1	35.9	35.6	35.0	34.4	33.9	33.3	31.0
100°	42.7	42.4	42.2	41.9	41.6	40.9	39.8	38.6	37.5	36.4	34.0
102.5°	45.8	45.4	45.0	44.6	44.2	43.2	41.8	40.3	38.9	37.4	35.5
105°	48.5	47.9	47.3	46.8	46.2	45.1	43.6	42.0	40.5	38.9	37.6
107.5°	49.8	49.3	48.8	48.2	47.6	48.2	49.7	51.3	52.9	54.5	100.9
110°	50.4	49.8	49.2	48.7	48.2	54.9	69.1	83.3	97.5	111.6	152.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	50.9	50.5	50.0	49.6	49.0	74.7	126.4	178.2	229.9	281.5	291.7
115°	52.3	62.5	72.7	82.9	93.1	131.1	196.7	262.3	328.0	393.6	390.0
117.5°	213.6	247.1	280.6	314.1	347.7	372.4	388.3	404.2	420.1	436.0	433.5
120°	389.1	408.2	427.4	446.5	465.7	474.4	472.7	471.0	469.2	467.5	465.0
122.5°	485.5	489.3	492.9	496.7	500.4	501.8	500.7	499.7	498.6	497.7	494.9
125°	545.4	544.9	544.6	544.1	543.7	543.0	542.0	541.0	540.0	539.0	536.3
127.5°	583.2	583.1	583.0	582.9	582.8	582.0	580.6	579.2	577.7	576.2	574.3
130°	606.6	606.7	606.9	607.1	607.2	606.5	604.9	603.3	601.8	600.2	598.7
132.5°	629.5	629.7	629.9	630.0	630.2	629.5	628.2	626.9	625.5	624.2	622.7
135°	662.7	663.0	663.3	663.6	663.9	663.3	661.9	660.5	659.1	657.6	656.4
137.5°	692.9	693.5	693.9	694.5	694.9	694.5	693.0	691.7	690.3	688.9	687.4
140°	711.9	712.6	713.3	714.0	714.7	714.4	713.1	711.9	710.6	709.4	707.8
142.5°	730.2	730.9	731.6	732.4	733.1	732.8	731.6	730.5	729.3	728.2	726.4
145°	755.9	756.6	757.3	758.0	758.7	758.6	757.6	756.6	755.6	754.6	752.2
147.5°	778.5	779.1	779.6	780.2	780.9	780.8	780.1	779.3	778.6	777.8	775.4
150°	792.2	792.9	793.6	794.3	795.0	795.0	794.2	793.3	792.5	791.6	789.3
152.5°	804.0	804.9	805.8	806.8	807.7	807.8	806.9	806.0	805.2	804.3	802.2
155°	820.3	821.4	822.6	823.7	824.8	825.0	824.1	823.3	822.4	821.5	819.8
157.5°	835.3	836.3	837.4	838.6	839.6	839.7	838.7	837.8	836.9	835.9	834.6
160°	843.9	844.9	845.9	846.9	847.8	847.9	847.1	846.2	845.4	844.5	843.6
162.5°	851.0	852.3	853.5	854.7	856.0	856.0	855.1	854.1	853.2	852.2	851.5
165°	861.7	862.7	863.7	864.8	865.8	865.8	864.8	863.7	862.7	861.7	861.3
167.5°	868.5	869.8	871.1	872.4	873.6	873.8	872.8	871.8	870.8	869.8	869.4
170°	872.6	873.9	875.1	876.5	877.7	877.9	876.8	875.8	874.9	873.9	873.6
172.5°	875.7	876.9	878.2	879.5	880.7	880.9	879.9	879.0	878.0	876.9	876.6
175°	878.3	879.8	881.2	882.6	884.0	884.2	883.2	882.3	881.3	880.3	879.9
177.5°	880.0	881.0	882.1	883.1	884.1	884.2	883.4	882.6	881.8	881.0	880.9
180°	881.5	881.5	881.5	881.5	881.5	881.5	881.5	881.5	881.5	881.5	881.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4
2.5°	981.2	979.2	977.3	972.5	970.1	964.7	963.9	963.7	956.8	950.1	948.2
5°	1014.9	1009.7	1001.7	992.3	982.7	972.7	966.0	960.7	947.4	934.7	927.4
7.5°	1048.9	1037.5	1023.7	1006.0	991.3	974.8	962.6	951.5	932.6	914.5	902.3
10°	1074.2	1055.6	1037.3	1013.0	994.0	975.4	958.1	943.1	921.8	897.8	880.7
12.5°	1089.9	1069.4	1044.2	1020.5	995.9	972.1	949.0	929.7	904.7	879.9	859.7
15°	1111.3	1089.2	1058.6	1024.7	993.0	962.1	935.4	911.4	878.8	849.2	824.5
17.5°	1128.6	1098.3	1065.4	1026.2	989.5	950.2	915.9	885.2	848.9	813.2	784.2
20°	1134.2	1104.2	1066.2	1027.0	983.6	937.4	900.4	867.1	828.1	789.2	755.9
22.5°	1130.7	1107.4	1065.1	1018.2	973.8	925.4	883.7	845.0	801.8	762.1	723.4
25°	1107.2	1099.2	1059.3	1008.0	957.3	901.1	852.8	810.5	761.3	718.6	676.6
27.5°	1052.4	1069.7	1044.9	990.2	934.0	873.6	819.4	771.2	720.1	672.1	630.3
30°	999.7	1039.3	1028.6	978.0	915.1	855.8	794.9	744.6	690.0	640.7	599.4
32.5°	927.5	992.9	1003.4	961.0	895.9	830.7	766.9	716.8	659.9	607.9	567.7
35°	812.5	910.4	955.4	928.4	863.1	792.9	726.9	668.7	611.4	560.1	520.1
37.5°	675.4	808.7	883.7	885.6	825.6	752.6	680.8	622.9	564.3	514.0	470.7
40°	586.4	730.9	828.5	850.2	799.5	720.6	648.0	589.1	531.8	482.5	432.9
42.5°	506.5	650.5	770.4	808.1	767.9	689.5	616.6	555.0	499.3	452.6	402.0
45°	409.6	535.5	667.6	734.9	712.7	640.0	563.1	504.5	452.2	411.9	363.3
47.5°	345.5	434.3	562.1	653.2	652.7	586.5	510.9	454.7	406.2	368.5	329.0
50°	309.0	386.3	494.5	597.7	606.4	550.8	478.8	423.2	378.0	338.3	306.7
52.5°	276.3	339.9	437.2	536.2	560.8	512.6	442.9	391.6	347.6	311.1	284.0
55°	233.4	282.7	356.7	449.2	486.5	452.5	390.6	342.7	307.0	276.4	253.1
57.5°	197.4	234.4	293.7	368.3	411.7	390.3	339.3	300.3	269.8	242.1	223.7
60°	174.9	205.1	255.4	317.7	365.6	350.6	307.0	270.7	244.8	220.8	203.5
62.5°	153.6	179.6	222.7	273.2	317.2	310.9	275.4	244.9	222.1	200.3	185.7
65°	123.5	142.5	176.1	215.8	251.1	254.0	228.5	207.8	187.4	170.1	157.2
67.5°	98.4	110.8	134.5	167.8	194.3	203.8	188.1	172.3	156.1	142.8	131.5
70°	82.9	92.9	110.2	137.2	161.5	171.5	162.5	150.2	136.2	125.2	115.6
72.5°	67.2	77.0	89.7	109.5	130.4	141.2	138.0	129.1	117.8	108.7	99.6
75°	50.6	53.6	62.2	75.6	91.9	101.2	103.5	98.9	89.9	82.9	77.6
77.5°	37.5	39.2	43.3	50.4	61.0	69.3	72.8	72.2	66.0	62.0	57.0
80°	30.0	30.9	33.0	35.9	44.0	52.3	54.6	54.6	50.3	48.6	43.6
82.5°	22.7	23.5	24.7	26.4	30.1	37.4	39.9	40.5	37.7	35.6	31.7
85°	13.0	12.7	13.3	14.4	15.0	16.9	21.0	21.7	21.0	18.3	17.3
87.5°	6.6	6.7	6.4	5.9	5.9	5.8	6.9	7.8	7.1	6.6	6.4
90°	10.5	9.4	8.2	6.9	5.4	3.7	2.2	0.6	2.2	3.7	5.4
92.5°	13.6	13.1	12.6	12.3	12.5	12.6	12.8	12.8	12.8	12.6	12.5
95°	22.9	21.9	20.9	22.7	27.5	32.1	36.8	41.5	36.8	32.1	27.5
97.5°	28.7	26.4	24.1	29.5	42.7	55.9	69.1	82.3	69.1	55.9	42.7
100°	31.6	29.2	26.8	35.2	54.7	74.1	93.5	112.9	93.5	74.1	54.7
102.5°	77.7	97.8	118.0	130.1	134.3	138.4	142.5	146.6	142.5	138.4	134.3
105°	116.3	155.0	193.7	210.9	206.7	202.4	198.1	193.9	198.1	202.4	206.7
107.5°	147.3	193.7	240.1	261.6	258.2	254.8	251.3	247.9	251.3	254.8	258.2
110°	193.6	234.5	275.4	294.4	291.5	288.6	285.5	282.6	285.5	288.6	291.5



TEST NUMBER: P331657-940

CATALOG NUMBER: SA2XXRDIP-C485D725U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	301.8	311.9	322.0	325.7	323.2	320.5	317.9	315.2	317.9	320.5	323.2
115°	386.5	382.9	379.4	376.4	374.0	371.6	369.2	366.8	369.2	371.6	374.0
117.5°	431.1	428.6	426.1	423.6	420.9	418.2	415.5	412.9	415.5	418.2	420.9
120°	462.4	459.9	457.4	455.0	452.9	450.8	448.6	446.5	448.6	450.8	452.9
122.5°	492.1	489.4	486.5	484.0	481.8	479.6	477.3	475.1	477.3	479.6	481.8
125°	533.6	530.9	528.2	525.9	524.1	522.3	520.4	518.6	520.4	522.3	524.1
127.5°	572.2	570.2	568.2	566.1	564.1	562.1	560.1	558.0	560.1	562.1	564.1
130°	597.1	595.6	594.0	592.1	589.8	587.5	585.3	583.0	585.3	587.5	589.8
132.5°	621.1	619.6	618.0	616.3	614.3	612.4	610.5	608.5	610.5	612.4	614.3
135°	655.1	653.8	652.6	650.8	648.5	646.2	644.0	641.7	644.0	646.2	648.5
137.5°	686.0	684.6	683.1	681.6	680.0	678.4	676.8	675.3	676.8	678.4	680.0
140°	706.2	704.6	703.1	701.7	700.6	699.5	698.3	697.2	698.3	699.5	700.6
142.5°	724.6	722.8	721.0	719.6	718.6	717.6	716.6	715.6	716.6	717.6	718.6
145°	749.8	747.3	744.9	743.9	744.0	744.1	744.2	744.4	744.2	744.1	744.0
147.5°	773.0	770.7	768.3	767.4	767.9	768.5	769.0	769.5	769.0	768.5	767.9
150°	787.0	784.8	782.6	781.9	782.9	783.9	784.9	785.9	784.9	783.9	782.9
152.5°	800.0	797.9	795.8	795.2	796.3	797.5	798.5	799.6	798.5	797.5	796.3
155°	818.1	816.5	814.8	814.6	815.8	817.1	818.4	819.7	818.4	817.1	815.8
157.5°	833.5	832.3	831.1	831.1	832.1	833.2	834.3	835.4	834.3	833.2	832.1
160°	842.8	842.0	841.2	841.2	842.0	842.8	843.6	844.5	843.6	842.8	842.0
162.5°	850.7	850.0	849.3	849.3	850.2	851.0	851.9	852.7	851.9	851.0	850.2
165°	860.9	860.5	860.1	860.2	861.1	862.0	862.8	863.7	862.8	862.0	861.1
167.5°	869.0	868.6	868.2	868.4	869.3	870.1	871.0	871.8	871.0	870.1	869.3
170°	873.3	873.1	872.7	873.1	873.9	874.8	875.6	876.5	875.6	874.8	873.9
172.5°	876.4	876.1	875.8	876.1	876.9	877.8	878.6	879.5	878.6	877.8	876.9
175°	879.7	879.4	879.1	879.5	880.5	881.5	882.4	883.4	882.4	881.5	880.5
177.5°	880.8	880.7	880.6	880.9	881.7	882.5	883.3	884.1	883.3	882.5	881.7
180°	881.5	881.5	881.5	881.5	881.5	881.5	881.5	881.5	881.5	881.5	881.5



TEST NUMBER: P331657-940

CATALOG NUMBER: SA2XXRDIP-C485D725U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4
2.5°	944.8	942.9	939.4	934.2	930.9	925.3	921.6	923.7	924.3	923.7	923.2
5°	919.4	912.4	902.8	893.4	884.8	875.5	870.1	867.8	863.1	860.5	859.2
7.5°	888.7	876.6	863.0	846.8	832.9	818.5	811.1	807.4	797.9	792.7	788.2
10°	865.8	846.8	833.1	811.8	798.9	779.9	766.9	767.2	754.2	746.9	741.5
12.5°	840.5	819.7	796.9	777.8	759.7	744.5	728.8	722.5	708.6	701.6	687.2
15°	798.5	774.2	750.3	724.2	706.0	682.3	659.7	632.0	609.8	590.4	585.1
17.5°	752.7	722.6	698.6	668.1	636.7	596.9	570.7	554.6	541.2	531.0	523.4
20°	721.3	690.6	665.0	619.0	576.8	549.7	530.5	518.2	504.2	493.2	487.1
22.5°	688.2	656.3	621.3	570.0	537.1	515.4	498.2	484.0	474.6	466.0	460.6
25°	641.3	606.4	548.8	513.4	486.9	464.2	452.2	443.5	433.5	421.9	416.6
27.5°	591.8	536.2	494.8	468.6	443.2	428.5	417.7	404.7	395.8	390.6	385.0
30°	554.7	499.2	466.9	438.2	420.3	403.9	391.3	384.0	375.3	366.3	362.7
32.5°	513.4	469.0	438.1	414.3	396.0	382.1	372.1	360.3	354.0	348.5	340.8
35°	462.2	428.6	400.3	380.9	363.6	352.3	340.6	333.7	322.4	317.7	314.7
37.5°	418.7	389.6	368.5	348.1	334.4	321.9	314.8	303.6	298.7	292.2	285.9
40°	394.2	365.6	345.4	328.7	313.3	304.0	295.1	286.1	278.7	275.7	268.0
42.5°	369.3	345.9	325.6	307.4	297.1	287.2	275.9	269.3	261.6	256.8	252.1
45°	334.7	314.1	296.7	281.7	270.4	260.1	252.7	241.7	237.5	227.7	223.7
47.5°	304.3	285.1	268.6	254.3	243.3	236.6	225.9	217.2	210.4	204.4	199.3
50°	282.7	266.7	250.7	238.1	228.1	218.5	207.5	203.1	192.4	189.5	186.5
52.5°	263.0	247.8	233.2	220.8	210.8	201.4	191.7	186.1	178.9	175.8	173.7
55°	235.4	220.8	206.8	195.8	185.8	176.1	170.1	163.2	159.8	157.5	154.8
57.5°	207.7	194.6	183.8	172.7	162.6	155.0	148.0	143.8	140.4	137.3	134.1
60°	190.1	177.5	167.8	157.5	147.2	140.9	135.5	130.5	126.5	121.9	120.6
62.5°	171.5	160.4	151.6	141.5	132.5	126.7	121.7	117.0	112.2	105.4	103.5
65°	145.9	137.2	127.9	119.6	111.6	105.9	98.5	93.3	91.2	90.6	90.2
67.5°	122.7	114.5	106.5	98.0	90.7	85.4	81.7	80.9	79.5	79.1	78.2
70°	107.2	99.6	91.6	83.6	76.6	75.6	74.3	72.9	71.2	70.6	69.9
72.5°	93.4	85.4	77.5	71.1	68.0	66.8	65.5	64.1	63.0	62.3	62.0
75°	71.6	64.3	58.9	56.6	54.9	53.9	52.0	50.9	50.3	49.3	49.0
77.5°	51.5	47.4	44.9	43.5	41.7	40.7	39.6	38.5	37.8	37.6	37.1
80°	39.3	37.3	35.7	33.6	33.0	31.7	31.3	30.3	30.7	29.6	29.6
82.5°	30.5	28.0	26.6	25.7	25.0	23.9	23.5	23.1	23.2	22.5	22.5
85°	15.7	15.0	14.4	13.6	13.6	12.7	13.0	12.7	12.7	11.9	11.7
87.5°	6.4	6.4	6.2	6.3	6.6	6.5	6.7	6.6	6.7	6.9	6.7
90°	6.9	8.2	9.4	10.5	11.6	12.8	13.5	14.2	14.9	15.6	16.1
92.5°	12.3	12.6	13.1	13.6	14.3	14.8	15.2	15.5	15.9	16.2	16.6
95°	22.7	20.9	21.9	22.9	23.9	24.9	25.6	26.3	27.0	27.7	28.0
97.5°	29.5	24.1	26.4	28.7	31.0	33.3	33.9	34.4	35.0	35.6	35.9
100°	35.2	26.8	29.2	31.6	34.0	36.4	37.5	38.6	39.8	40.9	41.6
102.5°	130.1	118.0	97.8	77.7	57.5	37.4	38.9	40.3	41.8	43.2	44.2
105°	210.9	193.7	155.0	116.3	77.6	38.9	40.5	42.0	43.6	45.1	46.2
107.5°	261.6	240.1	193.7	147.3	100.9	54.5	52.9	51.3	49.7	48.2	47.6
110°	294.4	275.4	234.5	193.6	152.6	111.6	97.5	83.3	69.1	54.9	48.2



TEST NUMBER: P331657-940

CATALOG NUMBER: SA2XXRDIP-C485D725U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	325.7	322.0	311.9	301.8	291.7	281.5	229.9	178.2	126.4	74.7	49.0
115°	376.4	379.4	382.9	386.5	390.0	393.6	328.0	262.3	196.7	131.1	93.1
117.5°	423.6	426.1	428.6	431.1	433.5	436.0	420.1	404.2	388.3	372.4	347.7
120°	455.0	457.4	459.9	462.4	465.0	467.5	469.2	471.0	472.7	474.4	465.7
122.5°	484.0	486.5	489.4	492.1	494.9	497.7	498.6	499.7	500.7	501.8	500.4
125°	525.9	528.2	530.9	533.6	536.3	539.0	540.0	541.0	542.0	543.0	543.7
127.5°	566.1	568.2	570.2	572.2	574.3	576.2	577.7	579.2	580.6	582.0	582.8
130°	592.1	594.0	595.6	597.1	598.7	600.2	601.8	603.3	604.9	606.5	607.2
132.5°	616.3	618.0	619.6	621.1	622.7	624.2	625.5	626.9	628.2	629.5	630.2
135°	650.8	652.6	653.8	655.1	656.4	657.6	659.1	660.5	661.9	663.3	663.9
137.5°	681.6	683.1	684.6	686.0	687.4	688.9	690.3	691.7	693.0	694.5	694.9
140°	701.7	703.1	704.6	706.2	707.8	709.4	710.6	711.9	713.1	714.4	714.7
142.5°	719.6	721.0	722.8	724.6	726.4	728.2	729.3	730.5	731.6	732.8	733.1
145°	743.9	744.9	747.3	749.8	752.2	754.6	755.6	756.6	757.6	758.6	758.7
147.5°	767.4	768.3	770.7	773.0	775.4	777.8	778.6	779.3	780.1	780.8	780.9
150°	781.9	782.6	784.8	787.0	789.3	791.6	792.5	793.3	794.2	795.0	795.0
152.5°	795.2	795.8	797.9	800.0	802.2	804.3	805.2	806.0	806.9	807.8	807.7
155°	814.6	814.8	816.5	818.1	819.8	821.5	822.4	823.3	824.1	825.0	824.8
157.5°	831.1	831.1	832.3	833.5	834.6	835.9	836.9	837.8	838.7	839.7	839.6
160°	841.2	841.2	842.0	842.8	843.6	844.5	845.4	846.2	847.1	847.9	847.8
162.5°	849.3	849.3	850.0	850.7	851.5	852.2	853.2	854.1	855.1	856.0	856.0
165°	860.2	860.1	860.5	860.9	861.3	861.7	862.7	863.7	864.8	865.8	865.8
167.5°	868.4	868.2	868.6	869.0	869.4	869.8	870.8	871.8	872.8	873.8	873.6
170°	873.1	872.7	873.1	873.3	873.6	873.9	874.9	875.8	876.8	877.9	877.7
172.5°	876.1	875.8	876.1	876.4	876.6	876.9	878.0	879.0	879.9	880.9	880.7
175°	879.5	879.1	879.4	879.7	879.9	880.3	881.3	882.3	883.2	884.2	884.0
177.5°	880.9	880.6	880.7	880.8	880.9	881.0	881.8	882.6	883.4	884.2	884.1
180°	881.5	881.5	881.5	881.5	881.5	881.5	881.5	881.5	881.5	881.5	881.5



TEST NUMBER: P331657-940

CATALOG NUMBER: SA2XXRDIP-C485D725U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4
2.5°	920.2	920.8	920.0	920.5	920.0	920.8	920.2	923.2	923.7	924.3	923.7
5°	857.5	853.5	852.8	851.9	852.8	853.5	857.5	859.2	860.5	863.1	867.8
7.5°	782.5	781.9	780.2	777.8	780.2	781.9	782.5	788.2	792.7	797.9	807.4
10°	734.2	732.6	732.3	730.0	732.3	732.6	734.2	741.5	746.9	754.2	767.2
12.5°	677.8	667.1	665.9	660.1	665.9	667.1	677.8	687.2	701.6	708.6	722.5
15°	577.1	575.1	568.5	564.1	568.5	575.1	577.1	585.1	590.4	609.8	632.0
17.5°	519.5	513.0	511.0	510.1	511.0	513.0	519.5	523.4	531.0	541.2	554.6
20°	482.5	476.5	475.5	474.8	475.5	476.5	482.5	487.1	493.2	504.2	518.2
22.5°	456.9	450.7	448.1	446.1	448.1	450.7	456.9	460.6	466.0	474.6	484.0
25°	413.2	410.9	409.6	408.9	409.6	410.9	413.2	416.6	421.9	433.5	443.5
27.5°	379.1	374.0	372.9	371.2	372.9	374.0	379.1	385.0	390.6	395.8	404.7
30°	359.6	357.9	355.6	353.7	355.6	357.9	359.6	362.7	366.3	375.3	384.0
32.5°	336.7	335.4	333.2	332.3	333.2	335.4	336.7	340.8	348.5	354.0	360.3
35°	311.4	306.7	304.7	301.7	304.7	306.7	311.4	314.7	317.7	322.4	333.7
37.5°	284.5	282.0	279.3	280.3	279.3	282.0	284.5	285.9	292.2	298.7	303.6
40°	263.8	262.1	261.4	261.1	261.4	262.1	263.8	268.0	275.7	278.7	286.1
42.5°	247.2	242.6	240.9	240.9	240.9	242.6	247.2	252.1	256.8	261.6	269.3
45°	222.1	217.8	214.8	215.1	214.8	217.8	222.1	223.7	227.7	237.5	241.7
47.5°	196.4	196.3	194.4	195.0	194.4	196.3	196.4	199.3	204.4	210.4	217.2
50°	184.1	182.2	180.8	181.1	180.8	182.2	184.1	186.5	189.5	192.4	203.1
52.5°	172.5	170.7	169.6	171.0	169.6	170.7	172.5	173.7	175.8	178.9	186.1
55°	153.2	151.1	150.9	150.5	150.9	151.1	153.2	154.8	157.5	159.8	163.2
57.5°	131.7	130.4	128.3	127.5	128.3	130.4	131.7	134.1	137.3	140.4	143.8
60°	116.2	113.5	110.2	109.9	110.2	113.5	116.2	120.6	121.9	126.5	130.5
62.5°	102.1	101.6	100.9	100.9	100.9	101.6	102.1	103.5	105.4	112.2	117.0
65°	89.6	89.3	89.6	89.9	89.6	89.3	89.6	90.2	90.6	91.2	93.3
67.5°	78.0	77.5	76.9	77.1	76.9	77.5	78.0	78.2	79.1	79.5	80.9
70°	69.3	68.9	68.6	68.6	68.6	68.9	69.3	69.9	70.6	71.2	72.9
72.5°	60.7	60.6	60.4	60.1	60.4	60.6	60.7	62.0	62.3	63.0	64.1
75°	48.6	48.0	48.0	48.0	48.0	48.0	48.6	49.0	49.3	50.3	50.9
77.5°	37.0	36.7	36.4	36.1	36.4	36.7	37.0	37.1	37.6	37.8	38.5
80°	29.3	29.0	28.6	28.6	28.6	29.0	29.3	29.6	29.6	30.7	30.3
82.5°	22.4	22.0	21.9	21.7	21.9	22.0	22.4	22.5	22.5	23.2	23.1
85°	11.9	12.3	11.9	12.7	11.9	12.3	11.9	11.7	11.9	12.7	12.7
87.5°	6.8	6.5	6.9	6.6	6.9	6.5	6.8	6.7	6.9	6.7	6.6
90°	16.4	16.7	16.9	17.2	16.9	16.7	16.4	16.1	15.6	14.9	14.2
92.5°	16.7	16.9	17.0	17.2	17.0	16.9	16.7	16.6	16.2	15.9	15.5
95°	27.8	27.7	27.6	27.5	27.6	27.7	27.8	28.0	27.7	27.0	26.3
97.5°	36.1	36.3	36.5	36.6	36.5	36.3	36.1	35.9	35.6	35.0	34.4
100°	41.9	42.2	42.4	42.7	42.4	42.2	41.9	41.6	40.9	39.8	38.6
102.5°	44.6	45.0	45.4	45.8	45.4	45.0	44.6	44.2	43.2	41.8	40.3
105°	46.8	47.3	47.9	48.5	47.9	47.3	46.8	46.2	45.1	43.6	42.0
107.5°	48.2	48.8	49.3	49.8	49.3	48.8	48.2	47.6	48.2	49.7	51.3
110°	48.7	49.2	49.8	50.4	49.8	49.2	48.7	48.2	54.9	69.1	83.3



TEST NUMBER: P331657-940

CATALOG NUMBER: SA2XXRDIP-C485D725U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	49.6	50.0	50.5	50.9	50.5	50.0	49.6	49.0	74.7	126.4	178.2
115°	82.9	72.7	62.5	52.3	62.5	72.7	82.9	93.1	131.1	196.7	262.3
117.5°	314.1	280.6	247.1	213.6	247.1	280.6	314.1	347.7	372.4	388.3	404.2
120°	446.5	427.4	408.2	389.1	408.2	427.4	446.5	465.7	474.4	472.7	471.0
122.5°	496.7	492.9	489.3	485.5	489.3	492.9	496.7	500.4	501.8	500.7	499.7
125°	544.1	544.6	544.9	545.4	544.9	544.6	544.1	543.7	543.0	542.0	541.0
127.5°	582.9	583.0	583.1	583.2	583.1	583.0	582.9	582.8	582.0	580.6	579.2
130°	607.1	606.9	606.7	606.6	606.7	606.9	607.1	607.2	606.5	604.9	603.3
132.5°	630.0	629.9	629.7	629.5	629.7	629.9	630.0	630.2	629.5	628.2	626.9
135°	663.6	663.3	663.0	662.7	663.0	663.3	663.6	663.9	663.3	661.9	660.5
137.5°	694.5	693.9	693.5	692.9	693.5	693.9	694.5	694.9	694.5	693.0	691.7
140°	714.0	713.3	712.6	711.9	712.6	713.3	714.0	714.7	714.4	713.1	711.9
142.5°	732.4	731.6	730.9	730.2	730.9	731.6	732.4	733.1	732.8	731.6	730.5
145°	758.0	757.3	756.6	755.9	756.6	757.3	758.0	758.7	758.6	757.6	756.6
147.5°	780.2	779.6	779.1	778.5	779.1	779.6	780.2	780.9	780.8	780.1	779.3
150°	794.3	793.6	792.9	792.2	792.9	793.6	794.3	795.0	795.0	794.2	793.3
152.5°	806.8	805.8	804.9	804.0	804.9	805.8	806.8	807.7	807.8	806.9	806.0
155°	823.7	822.6	821.4	820.3	821.4	822.6	823.7	824.8	825.0	824.1	823.3
157.5°	838.6	837.4	836.3	835.3	836.3	837.4	838.6	839.6	839.7	838.7	837.8
160°	846.9	845.9	844.9	843.9	844.9	845.9	846.9	847.8	847.9	847.1	846.2
162.5°	854.7	853.5	852.3	851.0	852.3	853.5	854.7	856.0	856.0	855.1	854.1
165°	864.8	863.7	862.7	861.7	862.7	863.7	864.8	865.8	865.8	864.8	863.7
167.5°	872.4	871.1	869.8	868.5	869.8	871.1	872.4	873.6	873.8	872.8	871.8
170°	876.5	875.1	873.9	872.6	873.9	875.1	876.5	877.7	877.9	876.8	875.8
172.5°	879.5	878.2	876.9	875.7	876.9	878.2	879.5	880.7	880.9	879.9	879.0
175°	882.6	881.2	879.8	878.3	879.8	881.2	882.6	884.0	884.2	883.2	882.3
177.5°	883.1	882.1	881.0	880.0	881.0	882.1	883.1	884.1	884.2	883.4	882.6
180°	881.5	881.5	881.5	881.5	881.5	881.5	881.5	881.5	881.5	881.5	881.5



TEST NUMBER: P331657-940

CATALOG NUMBER: SA2XXRDIP-C485D725U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4
2.5°	921.6	925.3	930.9	934.2	939.4	942.9	944.8	948.2	950.1	956.8	963.7
5°	870.1	875.5	884.8	893.4	902.8	912.4	919.4	927.4	934.7	947.4	960.7
7.5°	811.1	818.5	832.9	846.8	863.0	876.6	888.7	902.3	914.5	932.6	951.5
10°	766.9	779.9	798.9	811.8	833.1	846.8	865.8	880.7	897.8	921.8	943.1
12.5°	728.8	744.5	759.7	777.8	796.9	819.7	840.5	859.7	879.9	904.7	929.7
15°	659.7	682.3	706.0	724.2	750.3	774.2	798.5	824.5	849.2	878.8	911.4
17.5°	570.7	596.9	636.7	668.1	698.6	722.6	752.7	784.2	813.2	848.9	885.2
20°	530.5	549.7	576.8	619.0	665.0	690.6	721.3	755.9	789.2	828.1	867.1
22.5°	498.2	515.4	537.1	570.0	621.3	656.3	688.2	723.4	762.1	801.8	845.0
25°	452.2	464.2	486.9	513.4	548.8	606.4	641.3	676.6	718.6	761.3	810.5
27.5°	417.7	428.5	443.2	468.6	494.8	536.2	591.8	630.3	672.1	720.1	771.2
30°	391.3	403.9	420.3	438.2	466.9	499.2	554.7	599.4	640.7	690.0	744.6
32.5°	372.1	382.1	396.0	414.3	438.1	469.0	513.4	567.7	607.9	659.9	716.8
35°	340.6	352.3	363.6	380.9	400.3	428.6	462.2	520.1	560.1	611.4	668.7
37.5°	314.8	321.9	334.4	348.1	368.5	389.6	418.7	470.7	514.0	564.3	622.9
40°	295.1	304.0	313.3	328.7	345.4	365.6	394.2	432.9	482.5	531.8	589.1
42.5°	275.9	287.2	297.1	307.4	325.6	345.9	369.3	402.0	452.6	499.3	555.0
45°	252.7	260.1	270.4	281.7	296.7	314.1	334.7	363.3	411.9	452.2	504.5
47.5°	225.9	236.6	243.3	254.3	268.6	285.1	304.3	329.0	368.5	406.2	454.7
50°	207.5	218.5	228.1	238.1	250.7	266.7	282.7	306.7	338.3	378.0	423.2
52.5°	191.7	201.4	210.8	220.8	233.2	247.8	263.0	284.0	311.1	347.6	391.6
55°	170.1	176.1	185.8	195.8	206.8	220.8	235.4	253.1	276.4	307.0	342.7
57.5°	148.0	155.0	162.6	172.7	183.8	194.6	207.7	223.7	242.1	269.8	300.3
60°	135.5	140.9	147.2	157.5	167.8	177.5	190.1	203.5	220.8	244.8	270.7
62.5°	121.7	126.7	132.5	141.5	151.6	160.4	171.5	185.7	200.3	222.1	244.9
65°	98.5	105.9	111.6	119.6	127.9	137.2	145.9	157.2	170.1	187.4	207.8
67.5°	81.7	85.4	90.7	98.0	106.5	114.5	122.7	131.5	142.8	156.1	172.3
70°	74.3	75.6	76.6	83.6	91.6	99.6	107.2	115.6	125.2	136.2	150.2
72.5°	65.5	66.8	68.0	71.1	77.5	85.4	93.4	99.6	108.7	117.8	129.1
75°	52.0	53.9	54.9	56.6	58.9	64.3	71.6	77.6	82.9	89.9	98.9
77.5°	39.6	40.7	41.7	43.5	44.9	47.4	51.5	57.0	62.0	66.0	72.2
80°	31.3	31.7	33.0	33.6	35.7	37.3	39.3	43.6	48.6	50.3	54.6
82.5°	23.5	23.9	25.0	25.7	26.6	28.0	30.5	31.7	35.6	37.7	40.5
85°	13.0	12.7	13.6	13.6	14.4	15.0	15.7	17.3	18.3	21.0	21.7
87.5°	6.7	6.5	6.6	6.3	6.2	6.4	6.4	6.4	6.6	7.1	7.8
90°	13.5	12.8	11.6	10.5	9.4	8.2	6.9	5.4	3.7	2.2	0.6
92.5°	15.2	14.8	14.3	13.6	13.1	12.6	12.3	12.5	12.6	12.8	12.8
95°	25.6	24.9	23.9	22.9	21.9	20.9	22.7	27.5	32.1	36.8	41.5
97.5°	33.9	33.3	31.0	28.7	26.4	24.1	29.5	42.7	55.9	69.1	82.3
100°	37.5	36.4	34.0	31.6	29.2	26.8	35.2	54.7	74.1	93.5	112.9
102.5°	38.9	37.4	57.5	77.7	97.8	118.0	130.1	134.3	138.4	142.5	146.6
105°	40.5	38.9	77.6	116.3	155.0	193.7	210.9	206.7	202.4	198.1	193.9
107.5°	52.9	54.5	100.9	147.3	193.7	240.1	261.6	258.2	254.8	251.3	247.9
110°	97.5	111.6	152.6	193.6	234.5	275.4	294.4	291.5	288.6	285.5	282.6



TEST NUMBER: P331657-940

CATALOG NUMBER: SA2XXRDIP-C485D725U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	229.9	281.5	291.7	301.8	311.9	322.0	325.7	323.2	320.5	317.9	315.2
115°	328.0	393.6	390.0	386.5	382.9	379.4	376.4	374.0	371.6	369.2	366.8
117.5°	420.1	436.0	433.5	431.1	428.6	426.1	423.6	420.9	418.2	415.5	412.9
120°	469.2	467.5	465.0	462.4	459.9	457.4	455.0	452.9	450.8	448.6	446.5
122.5°	498.6	497.7	494.9	492.1	489.4	486.5	484.0	481.8	479.6	477.3	475.1
125°	540.0	539.0	536.3	533.6	530.9	528.2	525.9	524.1	522.3	520.4	518.6
127.5°	577.7	576.2	574.3	572.2	570.2	568.2	566.1	564.1	562.1	560.1	558.0
130°	601.8	600.2	598.7	597.1	595.6	594.0	592.1	589.8	587.5	585.3	583.0
132.5°	625.5	624.2	622.7	621.1	619.6	618.0	616.3	614.3	612.4	610.5	608.5
135°	659.1	657.6	656.4	655.1	653.8	652.6	650.8	648.5	646.2	644.0	641.7
137.5°	690.3	688.9	687.4	686.0	684.6	683.1	681.6	680.0	678.4	676.8	675.3
140°	710.6	709.4	707.8	706.2	704.6	703.1	701.7	700.6	699.5	698.3	697.2
142.5°	729.3	728.2	726.4	724.6	722.8	721.0	719.6	718.6	717.6	716.6	715.6
145°	755.6	754.6	752.2	749.8	747.3	744.9	743.9	744.0	744.1	744.2	744.4
147.5°	778.6	777.8	775.4	773.0	770.7	768.3	767.4	767.9	768.5	769.0	769.5
150°	792.5	791.6	789.3	787.0	784.8	782.6	781.9	782.9	783.9	784.9	785.9
152.5°	805.2	804.3	802.2	800.0	797.9	795.8	795.2	796.3	797.5	798.5	799.6
155°	822.4	821.5	819.8	818.1	816.5	814.8	814.6	815.8	817.1	818.4	819.7
157.5°	836.9	835.9	834.6	833.5	832.3	831.1	831.1	832.1	833.2	834.3	835.4
160°	845.4	844.5	843.6	842.8	842.0	841.2	841.2	842.0	842.8	843.6	844.5
162.5°	853.2	852.2	851.5	850.7	850.0	849.3	849.3	850.2	851.0	851.9	852.7
165°	862.7	861.7	861.3	860.9	860.5	860.1	860.2	861.1	862.0	862.8	863.7
167.5°	870.8	869.8	869.4	869.0	868.6	868.2	868.4	869.3	870.1	871.0	871.8
170°	874.9	873.9	873.6	873.3	873.1	872.7	873.1	873.9	874.8	875.6	876.5
172.5°	878.0	876.9	876.6	876.4	876.1	875.8	876.1	876.9	877.8	878.6	879.5
175°	881.3	880.3	879.9	879.7	879.4	879.1	879.5	880.5	881.5	882.4	883.4
177.5°	881.8	881.0	880.9	880.8	880.7	880.6	880.9	881.7	882.5	883.3	884.1
180°	881.5	881.5	881.5	881.5	881.5	881.5	881.5	881.5	881.5	881.5	881.5



TEST NUMBER: P331657-940

CATALOG NUMBER: SA2XXRDIP-C485D725U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4	958.4
2.5°	963.9	964.7	970.1	972.5	977.3	979.2	981.2	980.7	980.7	981.8	989.3
5°	966.0	972.7	982.7	992.3	1001.7	1009.7	1014.9	1020.3	1022.3	1032.0	1040.6
7.5°	962.6	974.8	991.3	1006.0	1023.7	1037.5	1048.9	1059.3	1066.3	1080.4	1094.8
10°	958.1	975.4	994.0	1013.0	1037.3	1055.6	1074.2	1088.6	1093.2	1114.2	1126.2
12.5°	949.0	972.1	995.9	1020.5	1044.2	1069.4	1089.9	1104.3	1120.7	1139.5	1161.6
15°	935.4	962.1	993.0	1024.7	1058.6	1089.2	1111.3	1136.2	1154.1	1174.8	1194.1
17.5°	915.9	950.2	989.5	1026.2	1065.4	1098.3	1128.6	1152.5	1165.2	1177.0	1179.9
20°	900.4	937.4	983.6	1027.0	1066.2	1104.2	1134.2	1154.1	1157.5	1157.8	1140.1
22.5°	883.7	925.4	973.8	1018.2	1065.1	1107.4	1130.7	1139.2	1126.1	1103.5	1069.3
25°	852.8	901.1	957.3	1008.0	1059.3	1099.2	1107.2	1092.3	1046.0	997.3	935.8
27.5°	819.4	873.6	934.0	990.2	1044.9	1069.7	1052.4	998.4	915.0	842.6	754.7
30°	794.9	855.8	915.1	978.0	1028.6	1039.3	999.7	920.1	822.9	713.6	626.1
32.5°	766.9	830.7	895.9	961.0	1003.4	992.9	927.5	829.5	715.5	608.1	525.3
35°	726.9	792.9	863.1	928.4	955.4	910.4	812.5	685.0	568.5	468.2	411.3
37.5°	680.8	752.6	825.6	885.6	883.7	808.7	675.4	543.7	445.8	386.5	345.9
40°	648.0	720.6	799.5	850.2	828.5	730.9	586.4	462.2	390.6	343.3	313.7
42.5°	616.6	689.5	767.9	808.1	770.4	650.5	506.5	409.2	350.1	313.3	289.2
45°	563.1	640.0	712.7	734.9	667.6	535.5	409.6	339.0	299.7	272.4	255.7
47.5°	510.9	586.5	652.7	653.2	562.1	434.3	345.5	293.4	259.8	238.7	226.6
50°	478.8	550.8	606.4	597.7	494.5	386.3	309.0	264.0	236.1	219.8	207.1
52.5°	442.9	512.6	560.8	536.2	437.2	339.9	276.3	238.5	215.3	201.2	189.8
55°	390.6	452.5	486.5	449.2	356.7	282.7	233.4	203.8	186.5	174.5	164.9
57.5°	339.3	390.3	411.7	368.3	293.7	234.4	197.4	175.2	158.0	149.5	144.5
60°	307.0	350.6	365.6	317.7	255.4	205.1	174.9	154.2	141.5	135.9	130.9
62.5°	275.4	310.9	317.2	273.2	222.7	179.6	153.6	136.1	127.7	122.3	117.5
65°	228.5	254.0	251.1	215.8	176.1	142.5	123.5	112.9	106.6	98.9	90.6
67.5°	188.1	203.8	194.3	167.8	134.5	110.8	98.4	90.3	82.5	75.2	73.3
70°	162.5	171.5	161.5	137.2	110.2	92.9	82.9	73.3	68.6	67.0	63.9
72.5°	138.0	141.2	130.4	109.5	89.7	77.0	67.2	61.8	59.3	57.9	55.9
75°	103.5	101.2	91.9	75.6	62.2	53.6	50.6	48.6	47.0	45.7	44.6
77.5°	72.8	69.3	61.0	50.4	43.3	39.2	37.5	36.4	35.6	34.9	33.9
80°	54.6	52.3	44.0	35.9	33.0	30.9	30.0	28.6	28.6	28.0	26.9
82.5°	39.9	37.4	30.1	26.4	24.7	23.5	22.7	21.9	21.7	21.8	21.1
85°	21.0	16.9	15.0	14.4	13.3	12.7	13.0	12.3	12.3	12.3	11.9
87.5°	6.9	5.8	5.9	5.9	6.4	6.7	6.6	6.9	7.3	7.2	7.7
90°	2.2	3.7	5.4	6.9	8.2	9.4	10.5	11.6	12.8	13.5	14.2
92.5°	12.8	12.6	12.5	12.3	12.6	13.1	13.6	14.3	14.8	15.2	15.5
95°	36.8	32.1	27.5	22.7	20.9	21.9	22.9	23.9	24.9	25.6	26.3
97.5°	69.1	55.9	42.7	29.5	24.1	26.4	28.7	31.0	33.3	33.9	34.4
100°	93.5	74.1	54.7	35.2	26.8	29.2	31.6	34.0	36.4	37.5	38.6
102.5°	142.5	138.4	134.3	130.1	118.0	97.8	77.7	57.5	37.4	38.9	40.3
105°	198.1	202.4	206.7	210.9	193.7	155.0	116.3	77.6	38.9	40.5	42.0
107.5°	251.3	254.8	258.2	261.6	240.1	193.7	147.3	100.9	54.5	52.9	51.3
110°	285.5	288.6	291.5	294.4	275.4	234.5	193.6	152.6	111.6	97.5	83.3



TEST NUMBER: P331657-940

CATALOG NUMBER: SA2XXRDIP-C485D725U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	317.9	320.5	323.2	325.7	322.0	311.9	301.8	291.7	281.5	229.9	178.2
115°	369.2	371.6	374.0	376.4	379.4	382.9	386.5	390.0	393.6	328.0	262.3
117.5°	415.5	418.2	420.9	423.6	426.1	428.6	431.1	433.5	436.0	420.1	404.2
120°	448.6	450.8	452.9	455.0	457.4	459.9	462.4	465.0	467.5	469.2	471.0
122.5°	477.3	479.6	481.8	484.0	486.5	489.4	492.1	494.9	497.7	498.6	499.7
125°	520.4	522.3	524.1	525.9	528.2	530.9	533.6	536.3	539.0	540.0	541.0
127.5°	560.1	562.1	564.1	566.1	568.2	570.2	572.2	574.3	576.2	577.7	579.2
130°	585.3	587.5	589.8	592.1	594.0	595.6	597.1	598.7	600.2	601.8	603.3
132.5°	610.5	612.4	614.3	616.3	618.0	619.6	621.1	622.7	624.2	625.5	626.9
135°	644.0	646.2	648.5	650.8	652.6	653.8	655.1	656.4	657.6	659.1	660.5
137.5°	676.8	678.4	680.0	681.6	683.1	684.6	686.0	687.4	688.9	690.3	691.7
140°	698.3	699.5	700.6	701.7	703.1	704.6	706.2	707.8	709.4	710.6	711.9
142.5°	716.6	717.6	718.6	719.6	721.0	722.8	724.6	726.4	728.2	729.3	730.5
145°	744.2	744.1	744.0	743.9	744.9	747.3	749.8	752.2	754.6	755.6	756.6
147.5°	769.0	768.5	767.9	767.4	768.3	770.7	773.0	775.4	777.8	778.6	779.3
150°	784.9	783.9	782.9	781.9	782.6	784.8	787.0	789.3	791.6	792.5	793.3
152.5°	798.5	797.5	796.3	795.2	795.8	797.9	800.0	802.2	804.3	805.2	806.0
155°	818.4	817.1	815.8	814.6	814.8	816.5	818.1	819.8	821.5	822.4	823.3
157.5°	834.3	833.2	832.1	831.1	831.1	832.3	833.5	834.6	835.9	836.9	837.8
160°	843.6	842.8	842.0	841.2	841.2	842.0	842.8	843.6	844.5	845.4	846.2
162.5°	851.9	851.0	850.2	849.3	849.3	850.0	850.7	851.5	852.2	853.2	854.1
165°	862.8	862.0	861.1	860.2	860.1	860.5	860.9	861.3	861.7	862.7	863.7
167.5°	871.0	870.1	869.3	868.4	868.2	868.6	869.0	869.4	869.8	870.8	871.8
170°	875.6	874.8	873.9	873.1	872.7	873.1	873.3	873.6	873.9	874.9	875.8
172.5°	878.6	877.8	876.9	876.1	875.8	876.1	876.4	876.6	876.9	878.0	879.0
175°	882.4	881.5	880.5	879.5	879.1	879.4	879.7	879.9	880.3	881.3	882.3
177.5°	883.3	882.5	881.7	880.9	880.6	880.7	880.8	880.9	881.0	881.8	882.6
180°	881.5	881.5	881.5	881.5	881.5	881.5	881.5	881.5	881.5	881.5	881.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	958.4	958.4	958.4	958.4	958.4	958.4	958.4
2.5°	991.9	995.4	997.0	997.0	998.9	998.1	997.3
5°	1048.9	1055.3	1056.6	1062.6	1066.9	1065.6	1066.2
7.5°	1105.6	1115.8	1125.9	1130.4	1131.2	1133.9	1134.9
10°	1140.5	1148.9	1164.5	1162.2	1173.8	1180.4	1169.5
12.5°	1174.1	1185.4	1196.2	1199.2	1205.8	1207.9	1203.5
15°	1204.4	1210.4	1211.1	1209.4	1211.5	1209.8	1203.5
17.5°	1176.1	1166.4	1146.7	1137.3	1129.9	1119.0	1114.6
20°	1129.2	1100.5	1067.3	1053.9	1038.3	1007.6	1014.9
22.5°	1028.0	995.3	962.1	923.1	904.6	875.5	873.8
25°	870.5	814.2	752.2	708.9	683.7	654.7	642.0
27.5°	676.8	605.9	555.2	529.5	506.0	483.1	482.1
30°	549.5	496.1	456.9	434.9	420.6	410.9	413.0
32.5°	463.2	426.6	400.1	381.9	371.3	364.0	363.9
35°	378.6	353.7	336.6	329.0	321.4	316.0	316.4
37.5°	324.0	309.0	299.5	291.1	286.3	283.7	282.2
40°	296.0	283.7	276.4	271.4	267.4	263.8	263.1
42.5°	273.9	263.8	256.4	252.4	248.8	246.1	245.5
45°	243.1	234.8	228.1	223.7	222.1	219.8	219.8
47.5°	216.2	208.0	202.9	200.1	197.2	195.7	195.6
50°	198.1	191.8	187.2	185.5	183.2	182.2	181.8
52.5°	181.9	177.2	173.8	172.7	171.7	170.4	170.6
55°	159.8	157.2	155.9	154.8	153.2	151.1	152.5
57.5°	141.2	139.0	135.4	132.2	130.7	129.3	129.8
60°	128.2	123.5	118.9	115.2	114.2	111.2	111.2
62.5°	111.7	105.1	99.4	97.4	96.4	95.0	94.7
65°	85.9	83.3	81.9	80.6	79.9	79.9	79.3
67.5°	71.2	70.1	68.7	68.3	67.7	67.5	67.2
70°	63.0	61.6	60.9	60.6	59.9	60.3	59.3
72.5°	54.9	53.9	53.8	52.9	52.5	52.5	51.8
75°	43.2	43.2	43.0	42.6	42.0	41.6	42.0
77.5°	33.3	33.3	32.7	32.7	32.6	32.7	32.4
80°	26.7	26.9	26.7	26.3	25.9	26.3	25.9
82.5°	21.0	20.6	20.5	20.4	20.4	20.2	20.2
85°	11.9	12.3	11.9	11.7	11.7	11.7	11.9
87.5°	7.5	7.7	7.8	7.8	7.8	7.9	7.7
90°	14.9	15.6	16.1	16.4	16.7	16.9	17.2
92.5°	15.9	16.2	16.6	16.7	16.9	17.0	17.2
95°	27.0	27.7	28.0	27.8	27.7	27.6	27.5
97.5°	35.0	35.6	35.9	36.1	36.3	36.5	36.6
100°	39.8	40.9	41.6	41.9	42.2	42.4	42.7
102.5°	41.8	43.2	44.2	44.6	45.0	45.4	45.8
105°	43.6	45.1	46.2	46.8	47.3	47.9	48.5
107.5°	49.7	48.2	47.6	48.2	48.8	49.3	49.8
110°	69.1	54.9	48.2	48.7	49.2	49.8	50.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	126.4	74.7	49.0	49.6	50.0	50.5	50.9
115°	196.7	131.1	93.1	82.9	72.7	62.5	52.3
117.5°	388.3	372.4	347.7	314.1	280.6	247.1	213.6
120°	472.7	474.4	465.7	446.5	427.4	408.2	389.1
122.5°	500.7	501.8	500.4	496.7	492.9	489.3	485.5
125°	542.0	543.0	543.7	544.1	544.6	544.9	545.4
127.5°	580.6	582.0	582.8	582.9	583.0	583.1	583.2
130°	604.9	606.5	607.2	607.1	606.9	606.7	606.6
132.5°	628.2	629.5	630.2	630.0	629.9	629.7	629.5
135°	661.9	663.3	663.9	663.6	663.3	663.0	662.7
137.5°	693.0	694.5	694.9	694.5	693.9	693.5	692.9
140°	713.1	714.4	714.7	714.0	713.3	712.6	711.9
142.5°	731.6	732.8	733.1	732.4	731.6	730.9	730.2
145°	757.6	758.6	758.7	758.0	757.3	756.6	755.9
147.5°	780.1	780.8	780.9	780.2	779.6	779.1	778.5
150°	794.2	795.0	795.0	794.3	793.6	792.9	792.2
152.5°	806.9	807.8	807.7	806.8	805.8	804.9	804.0
155°	824.1	825.0	824.8	823.7	822.6	821.4	820.3
157.5°	838.7	839.7	839.6	838.6	837.4	836.3	835.3
160°	847.1	847.9	847.8	846.9	845.9	844.9	843.9
162.5°	855.1	856.0	856.0	854.7	853.5	852.3	851.0
165°	864.8	865.8	865.8	864.8	863.7	862.7	861.7
167.5°	872.8	873.8	873.6	872.4	871.1	869.8	868.5
170°	876.8	877.9	877.7	876.5	875.1	873.9	872.6
172.5°	879.9	880.9	880.7	879.5	878.2	876.9	875.7
175°	883.2	884.2	884.0	882.6	881.2	879.8	878.3
177.5°	883.4	884.2	884.1	883.1	882.1	881.0	880.0
180°	881.5	881.5	881.5	881.5	881.5	881.5	881.5

(END OF REPORT)