

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: P331651-840

Luminaire Tested: **SA2XXRDIP-C485D530U840-4F0-1E-UDD-A**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331651-840
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-C485D530U840-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 530 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4012.0 lumens
Efficiency: N/A
Efficacy: 122.3 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: General Diffuse

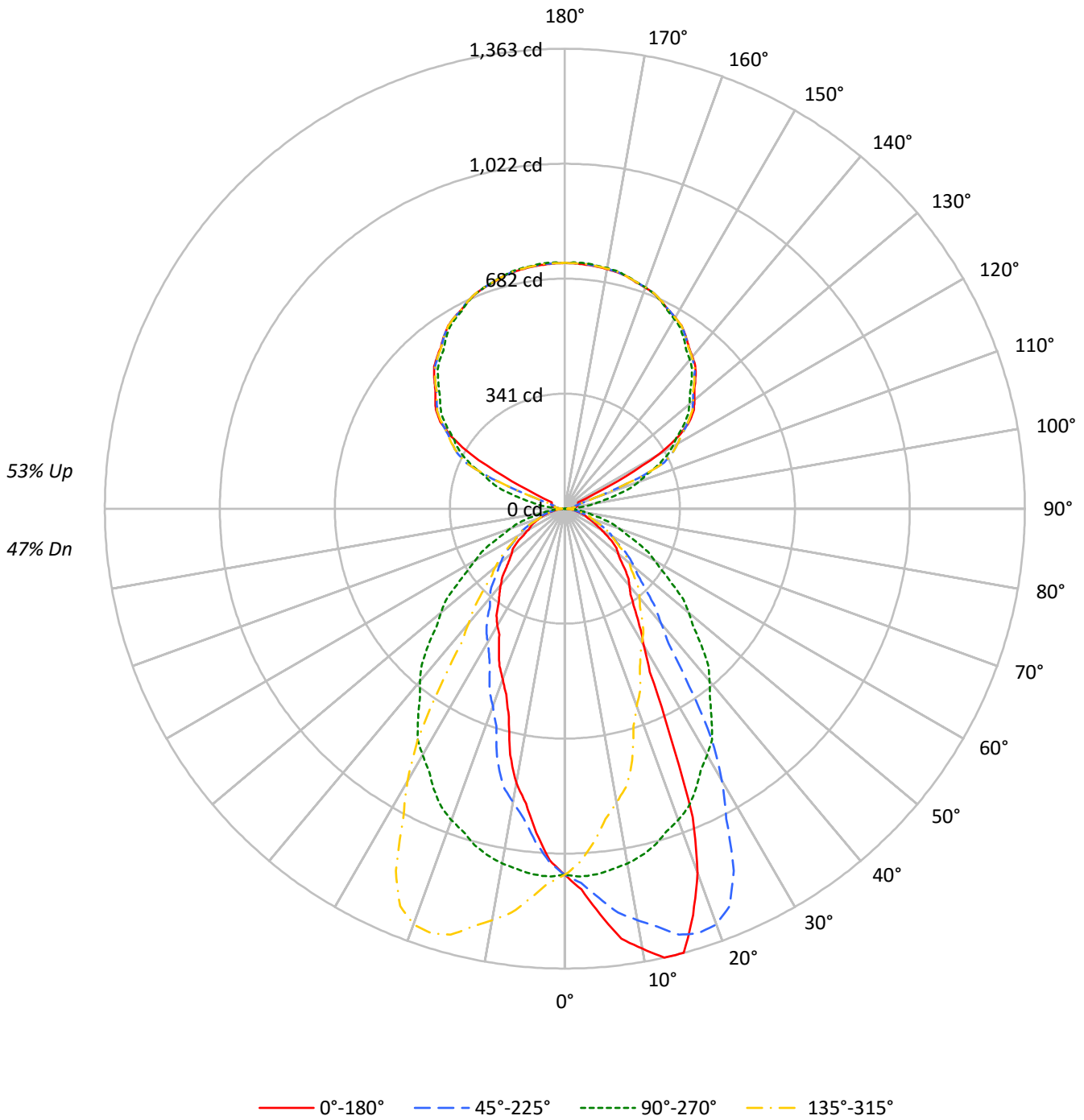
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	106	106	106	98	98	98	98	82	82	82	67	67	67	53	53	53	47
1	98	94	90	87	90	86	83	81	73	70	68	60	58	57	48	47	46	41
2	90	83	77	72	82	76	71	67	64	61	58	53	51	49	43	42	40	35
3	82	73	67	61	75	68	62	57	58	53	50	48	45	42	39	37	35	31
4	76	66	58	52	69	61	54	49	52	47	43	43	40	37	35	33	31	27
5	70	59	51	46	64	55	48	43	47	42	38	39	36	33	32	30	28	24
6	65	53	45	40	59	49	43	38	42	37	33	36	32	29	30	27	25	22
7	60	48	41	35	55	45	38	33	39	34	30	33	29	26	27	25	22	20
8	56	44	37	32	51	41	35	30	36	30	27	30	26	23	25	23	20	18
9	52	40	33	28	48	38	31	27	33	28	24	28	24	21	24	21	19	16
10	49	37	30	26	45	35	29	24	30	25	22	26	22	20	22	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	17525	17525	17525	17525
5°	19571	17634	15635	17634
10°	21713	17510	13554	17510
15°	22781	17254	10678	17254
20°	19749	16873	9241	16873
25°	12953	16352	8250	16352
30°	8720	15720	7467	15720
35°	7062	14927	6733	14927
40°	6279	14060	6232	14060
45°	5683	13047	5562	13047
50°	5172	12039	5152	12039
55°	4861	10925	4799	10925
60°	4066	9901	4017	9901
65°	3431	8989	3889	8989
70°	3172	8030	3668	8030
75°	2969	6987	3387	6987
80°	2734	5746	3013	5746
85°	2501	4539	2649	4539



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.9	2.6
10°-20°	286.7	7.1
20°-30°	369.4	9.2
30°-40°	351.1	8.8
40°-50°	300.7	7.5
50°-60°	229.0	5.7
60°-70°	144.8	3.6
70°-80°	72.3	1.8
80°-90°	20.6	0.5
90°-100°	24.3	0.6
100°-110°	89.1	2.2
110°-120°	238.2	5.9
120°-130°	393.1	9.8
130°-140°	418.1	10.4
140°-150°	388.6	9.7
150°-160°	312.4	7.8
160°-170°	201.3	5.0
170°-180°	69.3	1.7
0°-30°	759.0	18.9
0°-40°	1110.1	27.7
0°-60°	1639.8	40.9
0°-90°	1877.5	46.8
90°-120°	351.5	8.8
90°-150°	1551.4	38.7
90°-180°	2134.0	53.2
0°-180°	4012.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1085	1085	1085	1085	1085	
5°	1208	1088	965	1088	1208	119
15°	1363	1032	639	1032	1363	368
25°	727	918	463	918	727	345
35°	358	757	342	757	358	229
45°	249	571	244	571	249	193
55°	173	388	170	388	173	152
65°	90	235	102	235	90	91
75°	48	112	54	112	48	50
85°	14	24	14	24	14	15
90°	14	0	14	0	14	7
95°	23	34	23	34	23	21
105°	40	160	40	160	40	42
115°	43	303	43	303	43	108
125°	451	428	451	428	451	390
135°	548	530	548	530	548	422
145°	624	615	624	615	624	391
155°	678	677	678	677	678	313
165°	712	714	712	714	712	201
175°	726	730	726	730	726	69
180°	728	728	728	728	728	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4
2.5°	1129.4	1130.3	1131.3	1129.1	1129.1	1127.3	1123.4	1120.3	1111.9	1110.6	1110.6
5°	1207.5	1206.8	1208.3	1203.4	1196.6	1195.1	1187.9	1178.5	1168.7	1157.7	1155.5
7.5°	1285.3	1284.1	1281.1	1280.2	1275.1	1263.6	1252.1	1239.8	1223.6	1207.6	1199.6
10°	1324.4	1336.9	1329.4	1316.2	1318.8	1301.1	1291.6	1275.5	1261.8	1238.1	1232.8
12.5°	1363.0	1368.0	1365.5	1358.1	1354.7	1342.4	1329.7	1315.6	1290.5	1269.2	1250.6
15°	1362.9	1370.1	1372.0	1369.7	1371.6	1370.8	1364.0	1352.3	1330.5	1307.1	1286.8
17.5°	1262.3	1267.3	1279.6	1288.0	1298.6	1320.9	1331.9	1336.3	1332.9	1319.6	1305.3
20°	1149.4	1141.1	1175.9	1193.6	1208.7	1246.4	1278.8	1291.2	1311.2	1310.9	1307.1
22.5°	989.6	991.5	1024.4	1045.4	1089.5	1127.2	1164.2	1211.0	1249.7	1275.3	1290.2
25°	727.1	741.4	774.3	802.8	851.9	922.1	985.8	1059.8	1129.4	1184.6	1237.0
27.5°	546.0	547.1	573.1	599.7	628.7	686.2	766.5	854.7	954.2	1036.2	1130.6
30°	467.7	465.3	476.4	492.5	517.5	561.9	622.3	709.0	808.2	931.9	1042.0
32.5°	412.1	412.2	420.5	432.5	453.1	483.1	524.5	594.9	688.7	810.3	939.4
35°	358.3	357.9	364.0	372.6	381.2	400.5	428.8	465.7	530.3	643.8	775.8
37.5°	319.6	321.3	324.3	329.7	339.2	349.9	367.0	391.7	437.7	504.8	615.7
40°	297.9	298.7	302.9	307.4	313.1	321.3	335.3	355.3	388.8	442.3	523.4
42.5°	278.0	278.7	281.8	285.9	290.3	298.7	310.2	327.5	354.8	396.5	463.4
45°	248.9	248.9	251.6	253.4	258.3	265.9	275.3	289.6	308.5	339.4	384.0
47.5°	221.6	221.7	223.4	226.6	229.7	235.6	244.9	256.6	270.3	294.3	332.2
50°	205.9	206.3	207.4	210.1	212.0	217.2	224.4	234.6	248.9	267.4	299.0
52.5°	193.2	193.0	194.4	195.6	196.8	200.7	206.0	215.0	227.8	243.9	270.1
55°	172.7	171.2	173.5	175.3	176.5	178.0	181.0	186.7	197.6	211.2	230.8
57.5°	147.0	146.4	148.0	149.8	153.3	157.4	160.0	163.6	169.3	178.9	198.4
60°	125.9	125.9	129.4	130.5	134.6	139.9	145.2	148.2	153.9	160.3	174.6
62.5°	107.2	107.6	109.2	110.3	112.6	119.1	126.5	133.1	138.5	144.6	154.1
65°	89.8	90.5	90.5	91.3	92.8	94.3	97.3	102.6	112.0	120.7	127.8
67.5°	76.1	76.4	76.6	77.4	77.8	79.4	80.6	83.0	85.1	93.4	102.3
70°	67.2	68.3	67.9	68.7	69.0	69.8	71.3	72.4	75.8	77.7	83.0
72.5°	58.7	59.5	59.5	59.9	60.9	61.0	62.2	63.3	65.5	67.2	70.0
75°	47.6	47.2	47.6	48.3	48.7	49.0	49.0	50.5	51.7	53.2	55.0
77.5°	36.7	37.1	37.0	37.1	37.1	37.8	37.7	38.4	39.5	40.3	41.2
80°	29.4	29.8	29.4	29.8	30.2	30.5	30.2	30.5	31.7	32.4	32.4
82.5°	22.8	22.8	23.1	23.1	23.2	23.3	23.8	23.9	24.7	24.5	24.8
85°	13.5	13.2	13.2	13.2	13.5	13.9	13.5	13.5	13.9	13.9	13.9
87.5°	7.7	8.0	7.9	7.9	7.8	7.7	7.6	7.8	7.4	7.6	7.1
90°	14.2	14.0	13.7	13.5	13.3	12.9	12.3	11.7	11.1	10.5	9.6
92.5°	14.2	14.1	13.9	13.8	13.6	13.4	13.1	12.8	12.5	12.2	11.7
95°	22.6	22.8	22.9	23.0	23.1	22.9	22.3	21.7	21.1	20.6	19.7
97.5°	30.3	30.1	30.0	29.8	29.7	29.4	28.9	28.5	28.0	27.5	25.7
100°	35.3	35.0	34.8	34.6	34.3	33.8	32.8	31.9	31.0	30.0	28.1
102.5°	37.9	37.5	37.2	36.9	36.6	35.7	34.5	33.3	32.1	30.9	47.6
105°	40.1	39.6	39.1	38.7	38.2	37.3	36.1	34.7	33.4	32.1	64.1
107.5°	41.2	40.7	40.3	39.8	39.4	39.8	41.1	42.4	43.7	45.0	83.3
110°	41.6	41.2	40.7	40.2	39.8	45.3	57.1	68.8	80.5	92.2	126.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	42.0	41.7	41.3	40.9	40.6	61.7	104.4	147.1	189.9	232.7	241.0
115°	43.2	51.6	60.1	68.5	77.0	108.3	162.5	216.7	270.9	325.2	322.2
117.5°	176.4	204.2	231.9	259.5	287.3	307.7	320.8	334.0	347.1	360.1	358.2
120°	321.4	337.3	353.1	368.9	384.8	391.9	390.5	389.1	387.7	386.3	384.2
122.5°	401.1	404.2	407.3	410.4	413.4	414.5	413.7	412.8	412.0	411.2	408.9
125°	450.6	450.3	449.9	449.6	449.2	448.6	447.8	447.0	446.2	445.4	443.1
127.5°	481.8	481.7	481.7	481.6	481.5	480.9	479.7	478.5	477.3	476.2	474.4
130°	501.2	501.3	501.4	501.5	501.7	501.1	499.8	498.5	497.3	495.9	494.6
132.5°	520.2	520.3	520.4	520.5	520.6	520.2	519.1	518.0	516.8	515.7	514.4
135°	547.5	547.9	548.1	548.3	548.6	548.1	546.8	545.7	544.5	543.3	542.3
137.5°	572.6	573.0	573.3	573.7	574.1	573.8	572.6	571.5	570.4	569.2	567.9
140°	588.1	588.8	589.4	589.9	590.5	590.3	589.2	588.1	587.1	586.0	584.7
142.5°	603.3	603.9	604.5	605.1	605.7	605.5	604.5	603.6	602.6	601.7	600.2
145°	624.5	625.1	625.7	626.3	626.8	626.7	625.9	625.1	624.3	623.5	621.5
147.5°	643.2	643.7	644.2	644.7	645.1	645.1	644.5	643.9	643.3	642.7	640.7
150°	654.6	655.1	655.7	656.3	656.9	656.8	656.1	655.4	654.7	654.0	652.2
152.5°	664.3	665.0	665.8	666.6	667.3	667.4	666.7	666.0	665.3	664.6	662.8
155°	677.7	678.7	679.6	680.5	681.5	681.7	681.0	680.2	679.5	678.8	677.4
157.5°	690.0	690.9	691.9	692.8	693.8	693.8	693.0	692.2	691.4	690.6	689.6
160°	697.2	698.0	698.9	699.7	700.5	700.5	699.8	699.1	698.5	697.8	697.1
162.5°	703.2	704.2	705.2	706.2	707.2	707.3	706.5	705.7	704.9	704.1	703.5
165°	712.0	712.9	713.7	714.5	715.3	715.3	714.5	713.7	712.9	712.0	711.7
167.5°	717.6	718.6	719.7	720.7	721.9	722.0	721.1	720.2	719.4	718.6	718.3
170°	720.9	722.1	723.1	724.1	725.2	725.3	724.5	723.7	722.9	722.1	721.8
172.5°	723.5	724.6	725.6	726.7	727.7	727.8	727.0	726.2	725.4	724.6	724.3
175°	725.7	726.9	728.0	729.2	730.4	730.5	729.7	728.9	728.1	727.3	727.0
177.5°	727.1	727.9	728.7	729.6	730.4	730.5	729.9	729.2	728.6	727.9	727.8
180°	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4
2.5°	1111.3	1108.9	1106.8	1101.4	1098.6	1092.6	1091.7	1091.4	1083.6	1076.0	1073.9
5°	1149.4	1143.5	1134.4	1123.8	1112.9	1101.6	1094.0	1088.0	1072.9	1058.5	1050.3
7.5°	1187.9	1175.0	1159.3	1139.3	1122.7	1104.0	1090.1	1077.6	1056.2	1035.7	1021.9
10°	1216.6	1195.5	1174.8	1147.2	1125.7	1104.6	1085.0	1068.0	1043.9	1016.7	997.4
12.5°	1234.4	1211.1	1182.6	1155.7	1127.8	1101.0	1074.7	1052.9	1024.6	996.5	973.6
15°	1258.5	1233.6	1198.9	1160.4	1124.6	1089.5	1059.3	1032.2	995.2	961.7	933.7
17.5°	1278.2	1243.9	1206.6	1162.2	1120.6	1076.1	1037.2	1002.5	961.4	920.9	888.1
20°	1284.4	1250.5	1207.5	1163.1	1114.0	1061.6	1019.8	982.0	937.9	893.7	856.1
22.5°	1280.5	1254.2	1206.3	1153.1	1102.9	1048.0	1000.8	956.9	908.1	863.0	819.3
25°	1253.9	1244.9	1199.6	1141.6	1084.2	1020.5	965.8	917.9	862.1	813.9	766.3
27.5°	1191.8	1211.4	1183.4	1121.5	1057.7	989.4	928.0	873.4	815.5	761.1	713.8
30°	1132.2	1177.0	1164.9	1107.6	1036.3	969.2	900.2	843.2	781.4	725.6	678.8
32.5°	1050.4	1124.5	1136.3	1088.3	1014.6	940.8	868.5	811.8	747.3	688.4	642.9
35°	920.2	1031.1	1082.0	1051.4	977.4	898.0	823.2	757.3	692.4	634.3	589.1
37.5°	764.9	915.8	1000.8	1002.9	935.0	852.3	771.0	705.5	639.0	582.1	533.1
40°	664.1	827.8	938.3	962.8	905.4	816.1	733.9	667.1	602.3	546.4	490.3
42.5°	573.6	736.7	872.5	915.1	869.6	780.8	698.3	628.5	565.4	512.6	455.2
45°	463.8	606.4	756.1	832.3	807.1	724.8	637.7	571.4	512.1	466.5	411.4
47.5°	391.3	491.8	636.6	739.7	739.2	664.2	578.6	514.9	460.0	417.3	372.6
50°	349.9	437.5	560.1	676.9	686.7	623.8	542.3	479.3	428.1	383.1	347.3
52.5°	312.9	385.0	495.1	607.2	635.1	580.6	501.6	443.4	393.6	352.3	321.6
55°	264.4	320.1	403.9	508.8	551.0	512.5	442.3	388.1	347.7	313.1	286.6
57.5°	223.6	265.5	332.6	417.1	466.3	442.0	384.3	340.1	305.6	274.2	253.4
60°	198.0	232.3	289.2	359.8	414.0	397.1	347.7	306.6	277.2	250.0	230.5
62.5°	173.9	203.4	252.2	309.4	359.2	352.1	311.8	277.3	251.6	226.8	210.3
65°	139.9	161.4	199.4	244.4	284.4	287.7	258.7	235.3	212.3	192.7	178.0
67.5°	111.4	125.4	152.3	190.1	220.0	230.8	213.0	195.1	176.8	161.7	149.0
70°	93.9	105.2	124.8	155.4	182.9	194.2	184.0	170.1	154.2	141.8	130.9
72.5°	76.1	87.2	101.6	124.0	147.6	159.9	156.3	146.2	133.4	123.1	112.8
75°	57.4	60.7	70.5	85.6	104.1	114.6	117.2	112.0	101.8	93.9	87.9
77.5°	42.4	44.4	49.1	57.1	69.1	78.5	82.4	81.8	74.7	70.2	64.5
80°	33.9	35.0	37.4	40.7	49.8	59.2	61.8	61.8	57.0	55.0	49.4
82.5°	25.8	26.7	28.0	29.9	34.1	42.3	45.2	45.8	42.7	40.3	35.9
85°	14.7	14.3	15.0	16.3	17.0	19.2	23.7	24.5	23.7	20.7	19.6
87.5°	6.9	7.0	6.8	6.3	6.3	6.4	7.6	8.9	7.9	7.3	6.9
90°	8.7	7.8	6.8	5.7	4.3	3.1	1.8	0.5	1.8	3.1	4.3
92.5°	11.3	10.8	10.4	10.2	10.3	10.4	10.5	10.6	10.5	10.4	10.3
95°	18.9	18.1	17.3	18.8	22.6	26.6	30.4	34.2	30.4	26.6	22.6
97.5°	23.7	21.8	19.9	24.4	35.3	46.3	57.1	68.0	57.1	46.3	35.3
100°	26.1	24.0	22.1	29.1	45.1	61.2	77.3	93.3	77.3	61.2	45.1
102.5°	64.2	80.9	97.5	107.6	110.9	114.3	117.8	121.1	117.8	114.3	110.9
105°	96.1	128.1	160.1	174.3	170.8	167.2	163.7	160.2	163.7	167.2	170.8
107.5°	121.7	160.1	198.3	216.1	213.3	210.5	207.6	204.8	207.6	210.5	213.3
110°	160.0	193.8	227.6	243.3	240.9	238.4	235.9	233.5	235.9	238.4	240.9



TEST NUMBER: P331651-840

CATALOG NUMBER: SA2XXRDIP-C485D530U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	249.3	257.7	266.1	269.1	267.0	264.8	262.7	260.4	262.7	264.8	267.0
115°	319.3	316.4	313.5	311.0	309.0	307.0	305.0	303.1	305.0	307.0	309.0
117.5°	356.2	354.2	352.1	350.0	347.8	345.6	343.4	341.1	343.4	345.6	347.8
120°	382.1	380.0	377.9	376.0	374.2	372.4	370.6	368.9	370.6	372.4	374.2
122.5°	406.6	404.2	402.0	399.9	398.1	396.3	394.4	392.5	394.4	396.3	398.1
125°	440.9	438.7	436.5	434.5	433.0	431.5	430.0	428.5	430.0	431.5	433.0
127.5°	472.8	471.1	469.5	467.8	466.1	464.4	462.7	461.0	462.7	464.4	466.1
130°	493.3	492.1	490.8	489.2	487.4	485.4	483.5	481.7	483.5	485.4	487.4
132.5°	513.2	511.9	510.6	509.2	507.6	505.9	504.3	502.8	504.3	505.9	507.6
135°	541.3	540.2	539.2	537.7	535.8	533.9	532.1	530.2	532.1	533.9	535.8
137.5°	566.8	565.6	564.4	563.1	561.8	560.5	559.2	558.0	559.2	560.5	561.8
140°	583.5	582.2	580.9	579.8	578.9	577.9	576.9	576.0	576.9	577.9	578.9
142.5°	598.6	597.2	595.7	594.6	593.7	592.9	592.1	591.2	592.1	592.9	593.7
145°	619.5	617.5	615.5	614.6	614.7	614.8	614.9	615.0	614.9	614.8	614.7
147.5°	638.7	636.7	634.8	634.0	634.5	634.9	635.3	635.8	635.3	634.9	634.5
150°	650.3	648.4	646.5	646.0	646.8	647.6	648.4	649.2	648.4	647.6	646.8
152.5°	661.1	659.2	657.4	657.0	657.9	658.8	659.7	660.7	659.7	658.8	657.9
155°	676.0	674.6	673.2	673.0	674.1	675.1	676.2	677.2	676.2	675.1	674.1
157.5°	688.6	687.6	686.7	686.6	687.5	688.4	689.3	690.1	689.3	688.4	687.5
160°	696.4	695.7	695.0	695.0	695.7	696.4	697.1	697.8	697.1	696.4	695.7
162.5°	702.9	702.3	701.7	701.8	702.4	703.1	703.8	704.5	703.8	703.1	702.4
165°	711.2	710.9	710.6	710.7	711.4	712.2	712.9	713.6	712.9	712.2	711.4
167.5°	718.0	717.6	717.3	717.5	718.2	718.9	719.6	720.3	719.6	718.9	718.2
170°	721.5	721.3	721.0	721.3	722.1	722.8	723.5	724.1	723.5	722.8	722.1
172.5°	724.1	723.9	723.6	723.9	724.6	725.3	726.0	726.7	726.0	725.3	724.6
175°	726.8	726.6	726.4	726.6	727.5	728.3	729.1	729.9	729.1	728.3	727.5
177.5°	727.7	727.6	727.5	727.8	728.5	729.1	729.8	730.4	729.8	729.1	728.5
180°	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3



TEST NUMBER: P331651-840

CATALOG NUMBER: SA2XXRDIP-C485D530U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4
2.5°	1070.0	1067.8	1063.9	1057.9	1054.3	1047.9	1043.7	1046.1	1046.7	1046.1	1045.5
5°	1041.3	1033.3	1022.4	1011.8	1002.0	991.5	985.4	982.8	977.4	974.5	973.0
7.5°	1006.4	992.8	977.3	959.0	943.3	927.0	918.6	914.4	903.6	897.8	892.6
10°	980.5	959.0	943.5	919.4	904.7	883.2	868.5	868.9	854.1	845.9	839.8
12.5°	951.9	928.3	902.5	880.8	860.4	843.1	825.4	818.2	802.5	794.6	778.3
15°	904.3	876.8	849.7	820.2	799.5	772.7	747.1	715.8	690.5	668.6	662.6
17.5°	852.4	818.4	791.1	756.6	721.0	676.0	646.3	628.1	612.9	601.4	592.8
20°	816.9	782.1	753.2	701.0	653.2	622.6	600.8	586.8	571.0	558.6	551.7
22.5°	779.4	743.3	703.7	645.5	608.2	583.7	564.2	548.2	537.5	527.8	521.6
25°	726.3	686.7	621.5	581.5	551.4	525.7	512.1	502.3	491.0	477.8	471.8
27.5°	670.2	607.2	560.4	530.7	501.9	485.2	473.0	458.4	448.3	442.3	436.1
30°	628.2	565.3	528.8	496.2	475.9	457.5	443.1	434.8	425.1	414.9	410.7
32.5°	581.5	531.2	496.1	469.2	448.5	432.7	421.4	408.0	400.9	394.7	386.0
35°	523.4	485.3	453.3	431.4	411.8	399.0	385.8	377.9	365.1	359.8	356.4
37.5°	474.2	441.2	417.3	394.3	378.7	364.6	356.5	343.9	338.3	330.9	323.8
40°	446.5	414.0	391.1	372.2	354.9	344.3	334.2	324.0	315.7	312.3	303.6
42.5°	418.2	391.7	368.7	348.1	336.5	325.3	312.5	305.0	296.3	290.8	285.5
45°	379.0	355.7	336.0	319.0	306.2	294.6	286.2	273.8	268.9	257.9	253.4
47.5°	344.6	322.9	304.2	288.0	275.5	267.9	255.8	246.0	238.2	231.5	225.7
50°	320.1	302.1	284.0	269.6	258.3	247.4	235.0	230.0	217.9	214.6	211.2
52.5°	297.8	280.6	264.1	250.0	238.7	228.1	217.1	210.8	202.6	199.1	196.7
55°	266.6	250.0	234.2	221.8	210.5	199.4	192.7	184.8	181.0	178.3	175.3
57.5°	235.2	220.4	208.1	195.6	184.2	175.5	167.6	162.9	159.0	155.5	151.9
60°	215.3	201.0	190.1	178.3	166.7	159.6	153.5	147.8	143.3	138.0	136.5
62.5°	194.2	181.7	171.7	160.3	150.1	143.5	137.8	132.5	127.0	119.4	117.2
65°	165.2	155.4	144.8	135.4	126.3	120.0	111.6	105.6	103.3	102.6	102.2
67.5°	139.0	129.7	120.6	111.0	102.7	96.7	92.5	91.6	90.1	89.6	88.6
70°	121.4	112.8	103.7	94.6	86.7	85.6	84.1	82.6	80.7	80.0	79.2
72.5°	105.7	96.7	87.8	80.5	77.1	75.6	74.1	72.6	71.4	70.6	70.2
75°	81.1	72.8	66.8	64.1	62.2	61.1	58.9	57.7	57.0	55.8	55.4
77.5°	58.4	53.7	50.9	49.3	47.3	46.0	44.8	43.6	42.8	42.6	42.0
80°	44.5	42.2	40.4	38.1	37.4	35.9	35.4	34.3	34.7	33.5	33.5
82.5°	34.5	31.7	30.1	29.1	28.3	27.1	26.7	26.2	26.3	25.4	25.4
85°	17.8	17.0	16.3	15.5	15.5	14.3	14.7	14.3	14.3	13.5	13.2
87.5°	6.9	6.8	6.4	6.6	6.8	6.7	6.8	6.6	6.7	6.8	6.6
90°	5.7	6.8	7.8	8.7	9.6	10.5	11.1	11.7	12.3	12.9	13.3
92.5°	10.2	10.4	10.8	11.3	11.7	12.2	12.5	12.8	13.1	13.4	13.6
95°	18.8	17.3	18.1	18.9	19.7	20.6	21.1	21.7	22.3	22.9	23.1
97.5°	24.4	19.9	21.8	23.7	25.7	27.5	28.0	28.5	28.9	29.4	29.7
100°	29.1	22.1	24.0	26.1	28.1	30.0	31.0	31.9	32.8	33.8	34.3
102.5°	107.6	97.5	80.9	64.2	47.6	30.9	32.1	33.3	34.5	35.7	36.6
105°	174.3	160.1	128.1	96.1	64.1	32.1	33.4	34.7	36.1	37.3	38.2
107.5°	216.1	198.3	160.1	121.7	83.3	45.0	43.7	42.4	41.1	39.8	39.4
110°	243.3	227.6	193.8	160.0	126.0	92.2	80.5	68.8	57.1	45.3	39.8



TEST NUMBER: P331651-840

CATALOG NUMBER: SA2XXRDIP-C485D530U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	269.1	266.1	257.7	249.3	241.0	232.7	189.9	147.1	104.4	61.7	40.6
115°	311.0	313.5	316.4	319.3	322.2	325.2	270.9	216.7	162.5	108.3	77.0
117.5°	350.0	352.1	354.2	356.2	358.2	360.1	347.1	334.0	320.8	307.7	287.3
120°	376.0	377.9	380.0	382.1	384.2	386.3	387.7	389.1	390.5	391.9	384.8
122.5°	399.9	402.0	404.2	406.6	408.9	411.2	412.0	412.8	413.7	414.5	413.4
125°	434.5	436.5	438.7	440.9	443.1	445.4	446.2	447.0	447.8	448.6	449.2
127.5°	467.8	469.5	471.1	472.8	474.4	476.2	477.3	478.5	479.7	480.9	481.5
130°	489.2	490.8	492.1	493.3	494.6	495.9	497.3	498.5	499.8	501.1	501.7
132.5°	509.2	510.6	511.9	513.2	514.4	515.7	516.8	518.0	519.1	520.2	520.6
135°	537.7	539.2	540.2	541.3	542.3	543.3	544.5	545.7	546.8	548.1	548.6
137.5°	563.1	564.4	565.6	566.8	567.9	569.2	570.4	571.5	572.6	573.8	574.1
140°	579.8	580.9	582.2	583.5	584.7	586.0	587.1	588.1	589.2	590.3	590.5
142.5°	594.6	595.7	597.2	598.6	600.2	601.7	602.6	603.6	604.5	605.5	605.7
145°	614.6	615.5	617.5	619.5	621.5	623.5	624.3	625.1	625.9	626.7	626.8
147.5°	634.0	634.8	636.7	638.7	640.7	642.7	643.3	643.9	644.5	645.1	645.1
150°	646.0	646.5	648.4	650.3	652.2	654.0	654.7	655.4	656.1	656.8	656.9
152.5°	657.0	657.4	659.2	661.1	662.8	664.6	665.3	666.0	666.7	667.4	667.3
155°	673.0	673.2	674.6	676.0	677.4	678.8	679.5	680.2	681.0	681.7	681.5
157.5°	686.6	686.7	687.6	688.6	689.6	690.6	691.4	692.2	693.0	693.8	693.8
160°	695.0	695.0	695.7	696.4	697.1	697.8	698.5	699.1	699.8	700.5	700.5
162.5°	701.8	701.7	702.3	702.9	703.5	704.1	704.9	705.7	706.5	707.3	707.2
165°	710.7	710.6	710.9	711.2	711.7	712.0	712.9	713.7	714.5	715.3	715.3
167.5°	717.5	717.3	717.6	718.0	718.3	718.6	719.4	720.2	721.1	722.0	721.9
170°	721.3	721.0	721.3	721.5	721.8	722.1	722.9	723.7	724.5	725.3	725.2
172.5°	723.9	723.6	723.9	724.1	724.3	724.6	725.4	726.2	727.0	727.8	727.7
175°	726.6	726.4	726.6	726.8	727.0	727.3	728.1	728.9	729.7	730.5	730.4
177.5°	727.8	727.5	727.6	727.7	727.8	727.9	728.6	729.2	729.9	730.5	730.4
180°	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3



TEST NUMBER: P331651-840

CATALOG NUMBER: SA2XXRDIP-C485D530U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4
2.5°	1042.2	1042.8	1041.9	1042.5	1041.9	1042.8	1042.2	1045.5	1046.1	1046.7	1046.1
5°	971.1	966.5	965.8	964.7	965.8	966.5	971.1	973.0	974.5	977.4	982.8
7.5°	886.2	885.4	883.6	880.9	883.6	885.4	886.2	892.6	897.8	903.6	914.4
10°	831.5	829.7	829.3	826.7	829.3	829.7	831.5	839.8	845.9	854.1	868.9
12.5°	767.6	755.5	754.2	747.6	754.2	755.5	767.6	778.3	794.6	802.5	818.2
15°	653.6	651.3	643.8	638.8	643.8	651.3	653.6	662.6	668.6	690.5	715.8
17.5°	588.3	581.0	578.7	577.6	578.7	581.0	588.3	592.8	601.4	612.9	628.1
20°	546.4	539.7	538.6	537.8	538.6	539.7	546.4	551.7	558.6	571.0	586.8
22.5°	517.5	510.4	507.5	505.2	507.5	510.4	517.5	521.6	527.8	537.5	548.2
25°	468.0	465.3	463.8	463.1	463.8	465.3	468.0	471.8	477.8	491.0	502.3
27.5°	429.3	423.5	422.3	420.4	422.3	423.5	429.3	436.1	442.3	448.3	458.4
30°	407.3	405.4	402.7	400.5	402.7	405.4	407.3	410.7	414.9	425.1	434.8
32.5°	381.3	379.8	377.4	376.4	377.4	379.8	381.3	386.0	394.7	400.9	408.0
35°	352.6	347.3	345.1	341.6	345.1	347.3	352.6	356.4	359.8	365.1	377.9
37.5°	322.2	319.4	316.3	317.4	316.3	319.4	322.2	323.8	330.9	338.3	343.9
40°	298.7	296.8	296.0	295.7	296.0	296.8	298.7	303.6	312.3	315.7	324.0
42.5°	279.9	274.8	272.8	272.8	272.8	274.8	279.9	285.5	290.8	296.3	305.0
45°	251.6	246.6	243.3	243.6	243.3	246.6	251.6	253.4	257.9	268.9	273.8
47.5°	222.5	222.3	220.2	220.9	220.2	222.3	222.5	225.7	231.5	238.2	246.0
50°	208.5	206.3	204.8	205.1	204.8	206.3	208.5	211.2	214.6	217.9	230.0
52.5°	195.3	193.3	192.1	193.7	192.1	193.3	195.3	196.7	199.1	202.6	210.8
55°	173.5	171.2	170.9	170.5	170.9	171.2	173.5	175.3	178.3	181.0	184.8
57.5°	149.2	147.6	145.3	144.4	145.3	147.6	149.2	151.9	155.5	159.0	162.9
60°	131.6	128.6	124.8	124.4	124.8	128.6	131.6	136.5	138.0	143.3	147.8
62.5°	115.6	115.0	114.3	114.2	114.3	115.0	115.6	117.2	119.4	127.0	132.5
65°	101.5	101.1	101.5	101.8	101.5	101.1	101.5	102.2	102.6	103.3	105.6
67.5°	88.4	87.8	87.1	87.4	87.1	87.8	88.4	88.6	89.6	90.1	91.6
70°	78.5	78.1	77.7	77.7	77.7	78.1	78.5	79.2	80.0	80.7	82.6
72.5°	68.8	68.7	68.4	68.1	68.4	68.7	68.8	70.2	70.6	71.4	72.6
75°	55.0	54.3	54.3	54.3	54.3	54.3	55.0	55.4	55.8	57.0	57.7
77.5°	41.9	41.6	41.2	40.9	41.2	41.6	41.9	42.0	42.6	42.8	43.6
80°	33.2	32.8	32.4	32.4	32.4	32.8	33.2	33.5	33.5	34.7	34.3
82.5°	25.3	24.9	24.8	24.5	24.8	24.9	25.3	25.4	25.4	26.3	26.2
85°	13.5	13.9	13.5	14.3	13.5	13.9	13.5	13.2	13.5	14.3	14.3
87.5°	6.7	6.4	6.8	6.5	6.8	6.4	6.7	6.6	6.8	6.7	6.6
90°	13.5	13.7	14.0	14.2	14.0	13.7	13.5	13.3	12.9	12.3	11.7
92.5°	13.8	13.9	14.1	14.2	14.1	13.9	13.8	13.6	13.4	13.1	12.8
95°	23.0	22.9	22.8	22.6	22.8	22.9	23.0	23.1	22.9	22.3	21.7
97.5°	29.8	30.0	30.1	30.3	30.1	30.0	29.8	29.7	29.4	28.9	28.5
100°	34.6	34.8	35.0	35.3	35.0	34.8	34.6	34.3	33.8	32.8	31.9
102.5°	36.9	37.2	37.5	37.9	37.5	37.2	36.9	36.6	35.7	34.5	33.3
105°	38.7	39.1	39.6	40.1	39.6	39.1	38.7	38.2	37.3	36.1	34.7
107.5°	39.8	40.3	40.7	41.2	40.7	40.3	39.8	39.4	39.8	41.1	42.4
110°	40.2	40.7	41.2	41.6	41.2	40.7	40.2	39.8	45.3	57.1	68.8



TEST NUMBER: P331651-840

CATALOG NUMBER: SA2XXRDIP-C485D530U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	40.9	41.3	41.7	42.0	41.7	41.3	40.9	40.6	61.7	104.4	147.1
115°	68.5	60.1	51.6	43.2	51.6	60.1	68.5	77.0	108.3	162.5	216.7
117.5°	259.5	231.9	204.2	176.4	204.2	231.9	259.5	287.3	307.7	320.8	334.0
120°	368.9	353.1	337.3	321.4	337.3	353.1	368.9	384.8	391.9	390.5	389.1
122.5°	410.4	407.3	404.2	401.1	404.2	407.3	410.4	413.4	414.5	413.7	412.8
125°	449.6	449.9	450.3	450.6	450.3	449.9	449.6	449.2	448.6	447.8	447.0
127.5°	481.6	481.7	481.7	481.8	481.7	481.7	481.6	481.5	480.9	479.7	478.5
130°	501.5	501.4	501.3	501.2	501.3	501.4	501.5	501.7	501.1	499.8	498.5
132.5°	520.5	520.4	520.3	520.2	520.3	520.4	520.5	520.6	520.2	519.1	518.0
135°	548.3	548.1	547.9	547.5	547.9	548.1	548.3	548.6	548.1	546.8	545.7
137.5°	573.7	573.3	573.0	572.6	573.0	573.3	573.7	574.1	573.8	572.6	571.5
140°	589.9	589.4	588.8	588.1	588.8	589.4	589.9	590.5	590.3	589.2	588.1
142.5°	605.1	604.5	603.9	603.3	603.9	604.5	605.1	605.7	605.5	604.5	603.6
145°	626.3	625.7	625.1	624.5	625.1	625.7	626.3	626.8	626.7	625.9	625.1
147.5°	644.7	644.2	643.7	643.2	643.7	644.2	644.7	645.1	645.1	644.5	643.9
150°	656.3	655.7	655.1	654.6	655.1	655.7	656.3	656.9	656.8	656.1	655.4
152.5°	666.6	665.8	665.0	664.3	665.0	665.8	666.6	667.3	667.4	666.7	666.0
155°	680.5	679.6	678.7	677.7	678.7	679.6	680.5	681.5	681.7	681.0	680.2
157.5°	692.8	691.9	690.9	690.0	690.9	691.9	692.8	693.8	693.8	693.0	692.2
160°	699.7	698.9	698.0	697.2	698.0	698.9	699.7	700.5	700.5	699.8	699.1
162.5°	706.2	705.2	704.2	703.2	704.2	705.2	706.2	707.2	707.3	706.5	705.7
165°	714.5	713.7	712.9	712.0	712.9	713.7	714.5	715.3	715.3	714.5	713.7
167.5°	720.7	719.7	718.6	717.6	718.6	719.7	720.7	721.9	722.0	721.1	720.2
170°	724.1	723.1	722.1	720.9	722.1	723.1	724.1	725.2	725.3	724.5	723.7
172.5°	726.7	725.6	724.6	723.5	724.6	725.6	726.7	727.7	727.8	727.0	726.2
175°	729.2	728.0	726.9	725.7	726.9	728.0	729.2	730.4	730.5	729.7	728.9
177.5°	729.6	728.7	727.9	727.1	727.9	728.7	729.6	730.4	730.5	729.9	729.2
180°	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3



TEST NUMBER: P331651-840

CATALOG NUMBER: SA2XXRDIP-C485D530U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4
2.5°	1043.7	1047.9	1054.3	1057.9	1063.9	1067.8	1070.0	1073.9	1076.0	1083.6	1091.4
5°	985.4	991.5	1002.0	1011.8	1022.4	1033.3	1041.3	1050.3	1058.5	1072.9	1088.0
7.5°	918.6	927.0	943.3	959.0	977.3	992.8	1006.4	1021.9	1035.7	1056.2	1077.6
10°	868.5	883.2	904.7	919.4	943.5	959.0	980.5	997.4	1016.7	1043.9	1068.0
12.5°	825.4	843.1	860.4	880.8	902.5	928.3	951.9	973.6	996.5	1024.6	1052.9
15°	747.1	772.7	799.5	820.2	849.7	876.8	904.3	933.7	961.7	995.2	1032.2
17.5°	646.3	676.0	721.0	756.6	791.1	818.4	852.4	888.1	920.9	961.4	1002.5
20°	600.8	622.6	653.2	701.0	753.2	782.1	816.9	856.1	893.7	937.9	982.0
22.5°	564.2	583.7	608.2	645.5	703.7	743.3	779.4	819.3	863.0	908.1	956.9
25°	512.1	525.7	551.4	581.5	621.5	686.7	726.3	766.3	813.9	862.1	917.9
27.5°	473.0	485.2	501.9	530.7	560.4	607.2	670.2	713.8	761.1	815.5	873.4
30°	443.1	457.5	475.9	496.2	528.8	565.3	628.2	678.8	725.6	781.4	843.2
32.5°	421.4	432.7	448.5	469.2	496.1	531.2	581.5	642.9	688.4	747.3	811.8
35°	385.8	399.0	411.8	431.4	453.3	485.3	523.4	589.1	634.3	692.4	757.3
37.5°	356.5	364.6	378.7	394.3	417.3	441.2	474.2	533.1	582.1	639.0	705.5
40°	334.2	344.3	354.9	372.2	391.1	414.0	446.5	490.3	546.4	602.3	667.1
42.5°	312.5	325.3	336.5	348.1	368.7	391.7	418.2	455.2	512.6	565.4	628.5
45°	286.2	294.6	306.2	319.0	336.0	355.7	379.0	411.4	466.5	512.1	571.4
47.5°	255.8	267.9	275.5	288.0	304.2	322.9	344.6	372.6	417.3	460.0	514.9
50°	235.0	247.4	258.3	269.6	284.0	302.1	320.1	347.3	383.1	428.1	479.3
52.5°	217.1	228.1	238.7	250.0	264.1	280.6	297.8	321.6	352.3	393.6	443.4
55°	192.7	199.4	210.5	221.8	234.2	250.0	266.6	286.6	313.1	347.7	388.1
57.5°	167.6	175.5	184.2	195.6	208.1	220.4	235.2	253.4	274.2	305.6	340.1
60°	153.5	159.6	166.7	178.3	190.1	201.0	215.3	230.5	250.0	277.2	306.6
62.5°	137.8	143.5	150.1	160.3	171.7	181.7	194.2	210.3	226.8	251.6	277.3
65°	111.6	120.0	126.3	135.4	144.8	155.4	165.2	178.0	192.7	212.3	235.3
67.5°	92.5	96.7	102.7	111.0	120.6	129.7	139.0	149.0	161.7	176.8	195.1
70°	84.1	85.6	86.7	94.6	103.7	112.8	121.4	130.9	141.8	154.2	170.1
72.5°	74.1	75.6	77.1	80.5	87.8	96.7	105.7	112.8	123.1	133.4	146.2
75°	58.9	61.1	62.2	64.1	66.8	72.8	81.1	87.9	93.9	101.8	112.0
77.5°	44.8	46.0	47.3	49.3	50.9	53.7	58.4	64.5	70.2	74.7	81.8
80°	35.4	35.9	37.4	38.1	40.4	42.2	44.5	49.4	55.0	57.0	61.8
82.5°	26.7	27.1	28.3	29.1	30.1	31.7	34.5	35.9	40.3	42.7	45.8
85°	14.7	14.3	15.5	15.5	16.3	17.0	17.8	19.6	20.7	23.7	24.5
87.5°	6.8	6.7	6.8	6.6	6.4	6.8	6.9	6.9	7.3	7.9	8.9
90°	11.1	10.5	9.6	8.7	7.8	6.8	5.7	4.3	3.1	1.8	0.5
92.5°	12.5	12.2	11.7	11.3	10.8	10.4	10.2	10.3	10.4	10.5	10.6
95°	21.1	20.6	19.7	18.9	18.1	17.3	18.8	22.6	26.6	30.4	34.2
97.5°	28.0	27.5	25.7	23.7	21.8	19.9	24.4	35.3	46.3	57.1	68.0
100°	31.0	30.0	28.1	26.1	24.0	22.1	29.1	45.1	61.2	77.3	93.3
102.5°	32.1	30.9	47.6	64.2	80.9	97.5	107.6	110.9	114.3	117.8	121.1
105°	33.4	32.1	64.1	96.1	128.1	160.1	174.3	170.8	167.2	163.7	160.2
107.5°	43.7	45.0	83.3	121.7	160.1	198.3	216.1	213.3	210.5	207.6	204.8
110°	80.5	92.2	126.0	160.0	193.8	227.6	243.3	240.9	238.4	235.9	233.5



TEST NUMBER: P331651-840

CATALOG NUMBER: SA2XXRDIP-C485D530U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	189.9	232.7	241.0	249.3	257.7	266.1	269.1	267.0	264.8	262.7	260.4
115°	270.9	325.2	322.2	319.3	316.4	313.5	311.0	309.0	307.0	305.0	303.1
117.5°	347.1	360.1	358.2	356.2	354.2	352.1	350.0	347.8	345.6	343.4	341.1
120°	387.7	386.3	384.2	382.1	380.0	377.9	376.0	374.2	372.4	370.6	368.9
122.5°	412.0	411.2	408.9	406.6	404.2	402.0	399.9	398.1	396.3	394.4	392.5
125°	446.2	445.4	443.1	440.9	438.7	436.5	434.5	433.0	431.5	430.0	428.5
127.5°	477.3	476.2	474.4	472.8	471.1	469.5	467.8	466.1	464.4	462.7	461.0
130°	497.3	495.9	494.6	493.3	492.1	490.8	489.2	487.4	485.4	483.5	481.7
132.5°	516.8	515.7	514.4	513.2	511.9	510.6	509.2	507.6	505.9	504.3	502.8
135°	544.5	543.3	542.3	541.3	540.2	539.2	537.7	535.8	533.9	532.1	530.2
137.5°	570.4	569.2	567.9	566.8	565.6	564.4	563.1	561.8	560.5	559.2	558.0
140°	587.1	586.0	584.7	583.5	582.2	580.9	579.8	578.9	577.9	576.9	576.0
142.5°	602.6	601.7	600.2	598.6	597.2	595.7	594.6	593.7	592.9	592.1	591.2
145°	624.3	623.5	621.5	619.5	617.5	615.5	614.6	614.7	614.8	614.9	615.0
147.5°	643.3	642.7	640.7	638.7	636.7	634.8	634.0	634.5	634.9	635.3	635.8
150°	654.7	654.0	652.2	650.3	648.4	646.5	646.0	646.8	647.6	648.4	649.2
152.5°	665.3	664.6	662.8	661.1	659.2	657.4	657.0	657.9	658.8	659.7	660.7
155°	679.5	678.8	677.4	676.0	674.6	673.2	673.0	674.1	675.1	676.2	677.2
157.5°	691.4	690.6	689.6	688.6	687.6	686.7	686.6	687.5	688.4	689.3	690.1
160°	698.5	697.8	697.1	696.4	695.7	695.0	695.0	695.7	696.4	697.1	697.8
162.5°	704.9	704.1	703.5	702.9	702.3	701.7	701.8	702.4	703.1	703.8	704.5
165°	712.9	712.0	711.7	711.2	710.9	710.6	710.7	711.4	712.2	712.9	713.6
167.5°	719.4	718.6	718.3	718.0	717.6	717.3	717.5	718.2	718.9	719.6	720.3
170°	722.9	722.1	721.8	721.5	721.3	721.0	721.3	722.1	722.8	723.5	724.1
172.5°	725.4	724.6	724.3	724.1	723.9	723.6	723.9	724.6	725.3	726.0	726.7
175°	728.1	727.3	727.0	726.8	726.6	726.4	726.6	727.5	728.3	729.1	729.9
177.5°	728.6	727.9	727.8	727.7	727.6	727.5	727.8	728.5	729.1	729.8	730.4
180°	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3



TEST NUMBER: P331651-840

CATALOG NUMBER: SA2XXRDIP-C485D530U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4
2.5°	1091.7	1092.6	1098.6	1101.4	1106.8	1108.9	1111.3	1110.6	1110.6	1111.9	1120.3
5°	1094.0	1101.6	1112.9	1123.8	1134.4	1143.5	1149.4	1155.5	1157.7	1168.7	1178.5
7.5°	1090.1	1104.0	1122.7	1139.3	1159.3	1175.0	1187.9	1199.6	1207.6	1223.6	1239.8
10°	1085.0	1104.6	1125.7	1147.2	1174.8	1195.5	1216.6	1232.8	1238.1	1261.8	1275.5
12.5°	1074.7	1101.0	1127.8	1155.7	1182.6	1211.1	1234.4	1250.6	1269.2	1290.5	1315.6
15°	1059.3	1089.5	1124.6	1160.4	1198.9	1233.6	1258.5	1286.8	1307.1	1330.5	1352.3
17.5°	1037.2	1076.1	1120.6	1162.2	1206.6	1243.9	1278.2	1305.3	1319.6	1332.9	1336.3
20°	1019.8	1061.6	1114.0	1163.1	1207.5	1250.5	1284.4	1307.1	1310.9	1311.2	1291.2
22.5°	1000.8	1048.0	1102.9	1153.1	1206.3	1254.2	1280.5	1290.2	1275.3	1249.7	1211.0
25°	965.8	1020.5	1084.2	1141.6	1199.6	1244.9	1253.9	1237.0	1184.6	1129.4	1059.8
27.5°	928.0	989.4	1057.7	1121.5	1183.4	1211.4	1191.8	1130.6	1036.2	954.2	854.7
30°	900.2	969.2	1036.3	1107.6	1164.9	1177.0	1132.2	1042.0	931.9	808.2	709.0
32.5°	868.5	940.8	1014.6	1088.3	1136.3	1124.5	1050.4	939.4	810.3	688.7	594.9
35°	823.2	898.0	977.4	1051.4	1082.0	1031.1	920.2	775.8	643.8	530.3	465.7
37.5°	771.0	852.3	935.0	1002.9	1000.8	915.8	764.9	615.7	504.8	437.7	391.7
40°	733.9	816.1	905.4	962.8	938.3	827.8	664.1	523.4	442.3	388.8	355.3
42.5°	698.3	780.8	869.6	915.1	872.5	736.7	573.6	463.4	396.5	354.8	327.5
45°	637.7	724.8	807.1	832.3	756.1	606.4	463.8	384.0	339.4	308.5	289.6
47.5°	578.6	664.2	739.2	739.7	636.6	491.8	391.3	332.2	294.3	270.3	256.6
50°	542.3	623.8	686.7	676.9	560.1	437.5	349.9	299.0	267.4	248.9	234.6
52.5°	501.6	580.6	635.1	607.2	495.1	385.0	312.9	270.1	243.9	227.8	215.0
55°	442.3	512.5	551.0	508.8	403.9	320.1	264.4	230.8	211.2	197.6	186.7
57.5°	384.3	442.0	466.3	417.1	332.6	265.5	223.6	198.4	178.9	169.3	163.6
60°	347.7	397.1	414.0	359.8	289.2	232.3	198.0	174.6	160.3	153.9	148.2
62.5°	311.8	352.1	359.2	309.4	252.2	203.4	173.9	154.1	144.6	138.5	133.1
65°	258.7	287.7	284.4	244.4	199.4	161.4	139.9	127.8	120.7	112.0	102.6
67.5°	213.0	230.8	220.0	190.1	152.3	125.4	111.4	102.3	93.4	85.1	83.0
70°	184.0	194.2	182.9	155.4	124.8	105.2	93.9	83.0	77.7	75.8	72.4
72.5°	156.3	159.9	147.6	124.0	101.6	87.2	76.1	70.0	67.2	65.5	63.3
75°	117.2	114.6	104.1	85.6	70.5	60.7	57.4	55.0	53.2	51.7	50.5
77.5°	82.4	78.5	69.1	57.1	49.1	44.4	42.4	41.2	40.3	39.5	38.4
80°	61.8	59.2	49.8	40.7	37.4	35.0	33.9	32.4	32.4	31.7	30.5
82.5°	45.2	42.3	34.1	29.9	28.0	26.7	25.8	24.8	24.5	24.7	23.9
85°	23.7	19.2	17.0	16.3	15.0	14.3	14.7	13.9	13.9	13.9	13.5
87.5°	7.6	6.4	6.3	6.3	6.8	7.0	6.9	7.1	7.6	7.4	7.8
90°	1.8	3.1	4.3	5.7	6.8	7.8	8.7	9.6	10.5	11.1	11.7
92.5°	10.5	10.4	10.3	10.2	10.4	10.8	11.3	11.7	12.2	12.5	12.8
95°	30.4	26.6	22.6	18.8	17.3	18.1	18.9	19.7	20.6	21.1	21.7
97.5°	57.1	46.3	35.3	24.4	19.9	21.8	23.7	25.7	27.5	28.0	28.5
100°	77.3	61.2	45.1	29.1	22.1	24.0	26.1	28.1	30.0	31.0	31.9
102.5°	117.8	114.3	110.9	107.6	97.5	80.9	64.2	47.6	30.9	32.1	33.3
105°	163.7	167.2	170.8	174.3	160.1	128.1	96.1	64.1	32.1	33.4	34.7
107.5°	207.6	210.5	213.3	216.1	198.3	160.1	121.7	83.3	45.0	43.7	42.4
110°	235.9	238.4	240.9	243.3	227.6	193.8	160.0	126.0	92.2	80.5	68.8



TEST NUMBER: P331651-840

CATALOG NUMBER: SA2XXRDIP-C485D530U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	262.7	264.8	267.0	269.1	266.1	257.7	249.3	241.0	232.7	189.9	147.1
115°	305.0	307.0	309.0	311.0	313.5	316.4	319.3	322.2	325.2	270.9	216.7
117.5°	343.4	345.6	347.8	350.0	352.1	354.2	356.2	358.2	360.1	347.1	334.0
120°	370.6	372.4	374.2	376.0	377.9	380.0	382.1	384.2	386.3	387.7	389.1
122.5°	394.4	396.3	398.1	399.9	402.0	404.2	406.6	408.9	411.2	412.0	412.8
125°	430.0	431.5	433.0	434.5	436.5	438.7	440.9	443.1	445.4	446.2	447.0
127.5°	462.7	464.4	466.1	467.8	469.5	471.1	472.8	474.4	476.2	477.3	478.5
130°	483.5	485.4	487.4	489.2	490.8	492.1	493.3	494.6	495.9	497.3	498.5
132.5°	504.3	505.9	507.6	509.2	510.6	511.9	513.2	514.4	515.7	516.8	518.0
135°	532.1	533.9	535.8	537.7	539.2	540.2	541.3	542.3	543.3	544.5	545.7
137.5°	559.2	560.5	561.8	563.1	564.4	565.6	566.8	567.9	569.2	570.4	571.5
140°	576.9	577.9	578.9	579.8	580.9	582.2	583.5	584.7	586.0	587.1	588.1
142.5°	592.1	592.9	593.7	594.6	595.7	597.2	598.6	600.2	601.7	602.6	603.6
145°	614.9	614.8	614.7	614.6	615.5	617.5	619.5	621.5	623.5	624.3	625.1
147.5°	635.3	634.9	634.5	634.0	634.8	636.7	638.7	640.7	642.7	643.3	643.9
150°	648.4	647.6	646.8	646.0	646.5	648.4	650.3	652.2	654.0	654.7	655.4
152.5°	659.7	658.8	657.9	657.0	657.4	659.2	661.1	662.8	664.6	665.3	666.0
155°	676.2	675.1	674.1	673.0	673.2	674.6	676.0	677.4	678.8	679.5	680.2
157.5°	689.3	688.4	687.5	686.6	686.7	687.6	688.6	689.6	690.6	691.4	692.2
160°	697.1	696.4	695.7	695.0	695.0	695.7	696.4	697.1	697.8	698.5	699.1
162.5°	703.8	703.1	702.4	701.8	701.7	702.3	702.9	703.5	704.1	704.9	705.7
165°	712.9	712.2	711.4	710.7	710.6	710.9	711.2	711.7	712.0	712.9	713.7
167.5°	719.6	718.9	718.2	717.5	717.3	717.6	718.0	718.3	718.6	719.4	720.2
170°	723.5	722.8	722.1	721.3	721.0	721.3	721.5	721.8	722.1	722.9	723.7
172.5°	726.0	725.3	724.6	723.9	723.6	723.9	724.1	724.3	724.6	725.4	726.2
175°	729.1	728.3	727.5	726.6	726.4	726.6	726.8	727.0	727.3	728.1	728.9
177.5°	729.8	729.1	728.5	727.8	727.5	727.6	727.7	727.8	727.9	728.6	729.2
180°	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4	1085.4
2.5°	1123.4	1127.3	1129.1	1129.1	1131.3	1130.3	1129.4
5°	1187.9	1195.1	1196.6	1203.4	1208.3	1206.8	1207.5
7.5°	1252.1	1263.6	1275.1	1280.2	1281.1	1284.1	1285.3
10°	1291.6	1301.1	1318.8	1316.2	1329.4	1336.9	1324.4
12.5°	1329.7	1342.4	1354.7	1358.1	1365.5	1368.0	1363.0
15°	1364.0	1370.8	1371.6	1369.7	1372.0	1370.1	1362.9
17.5°	1331.9	1320.9	1298.6	1288.0	1279.6	1267.3	1262.3
20°	1278.8	1246.4	1208.7	1193.6	1175.9	1141.1	1149.4
22.5°	1164.2	1127.2	1089.5	1045.4	1024.4	991.5	989.6
25°	985.8	922.1	851.9	802.8	774.3	741.4	727.1
27.5°	766.5	686.2	628.7	599.7	573.1	547.1	546.0
30°	622.3	561.9	517.5	492.5	476.4	465.3	467.7
32.5°	524.5	483.1	453.1	432.5	420.5	412.2	412.1
35°	428.8	400.5	381.2	372.6	364.0	357.9	358.3
37.5°	367.0	349.9	339.2	329.7	324.3	321.3	319.6
40°	335.3	321.3	313.1	307.4	302.9	298.7	297.9
42.5°	310.2	298.7	290.3	285.9	281.8	278.7	278.0
45°	275.3	265.9	258.3	253.4	251.6	248.9	248.9
47.5°	244.9	235.6	229.7	226.6	223.4	221.7	221.6
50°	224.4	217.2	212.0	210.1	207.4	206.3	205.9
52.5°	206.0	200.7	196.8	195.6	194.4	193.0	193.2
55°	181.0	178.0	176.5	175.3	173.5	171.2	172.7
57.5°	160.0	157.4	153.3	149.8	148.0	146.4	147.0
60°	145.2	139.9	134.6	130.5	129.4	125.9	125.9
62.5°	126.5	119.1	112.6	110.3	109.2	107.6	107.2
65°	97.3	94.3	92.8	91.3	90.5	90.5	89.8
67.5°	80.6	79.4	77.8	77.4	76.6	76.4	76.1
70°	71.3	69.8	69.0	68.7	67.9	68.3	67.2
72.5°	62.2	61.0	60.9	59.9	59.5	59.5	58.7
75°	49.0	49.0	48.7	48.3	47.6	47.2	47.6
77.5°	37.7	37.8	37.1	37.1	37.0	37.1	36.7
80°	30.2	30.5	30.2	29.8	29.4	29.8	29.4
82.5°	23.8	23.3	23.2	23.1	23.1	22.8	22.8
85°	13.5	13.9	13.5	13.2	13.2	13.2	13.5
87.5°	7.6	7.7	7.8	7.9	7.9	8.0	7.7
90°	12.3	12.9	13.3	13.5	13.7	14.0	14.2
92.5°	13.1	13.4	13.6	13.8	13.9	14.1	14.2
95°	22.3	22.9	23.1	23.0	22.9	22.8	22.6
97.5°	28.9	29.4	29.7	29.8	30.0	30.1	30.3
100°	32.8	33.8	34.3	34.6	34.8	35.0	35.3
102.5°	34.5	35.7	36.6	36.9	37.2	37.5	37.9
105°	36.1	37.3	38.2	38.7	39.1	39.6	40.1
107.5°	41.1	39.8	39.4	39.8	40.3	40.7	41.2
110°	57.1	45.3	39.8	40.2	40.7	41.2	41.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	104.4	61.7	40.6	40.9	41.3	41.7	42.0
115°	162.5	108.3	77.0	68.5	60.1	51.6	43.2
117.5°	320.8	307.7	287.3	259.5	231.9	204.2	176.4
120°	390.5	391.9	384.8	368.9	353.1	337.3	321.4
122.5°	413.7	414.5	413.4	410.4	407.3	404.2	401.1
125°	447.8	448.6	449.2	449.6	449.9	450.3	450.6
127.5°	479.7	480.9	481.5	481.6	481.7	481.7	481.8
130°	499.8	501.1	501.7	501.5	501.4	501.3	501.2
132.5°	519.1	520.2	520.6	520.5	520.4	520.3	520.2
135°	546.8	548.1	548.6	548.3	548.1	547.9	547.5
137.5°	572.6	573.8	574.1	573.7	573.3	573.0	572.6
140°	589.2	590.3	590.5	589.9	589.4	588.8	588.1
142.5°	604.5	605.5	605.7	605.1	604.5	603.9	603.3
145°	625.9	626.7	626.8	626.3	625.7	625.1	624.5
147.5°	644.5	645.1	645.1	644.7	644.2	643.7	643.2
150°	656.1	656.8	656.9	656.3	655.7	655.1	654.6
152.5°	666.7	667.4	667.3	666.6	665.8	665.0	664.3
155°	681.0	681.7	681.5	680.5	679.6	678.7	677.7
157.5°	693.0	693.8	693.8	692.8	691.9	690.9	690.0
160°	699.8	700.5	700.5	699.7	698.9	698.0	697.2
162.5°	706.5	707.3	707.2	706.2	705.2	704.2	703.2
165°	714.5	715.3	715.3	714.5	713.7	712.9	712.0
167.5°	721.1	722.0	721.9	720.7	719.7	718.6	717.6
170°	724.5	725.3	725.2	724.1	723.1	722.1	720.9
172.5°	727.0	727.8	727.7	726.7	725.6	724.6	723.5
175°	729.7	730.5	730.4	729.2	728.0	726.9	725.7
177.5°	729.9	730.5	730.4	729.6	728.7	727.9	727.1
180°	728.3	728.3	728.3	728.3	728.3	728.3	728.3

(END OF REPORT)