

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: P331653-935

Luminaire Tested: **SA2XXRDIP-C485D530U935-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

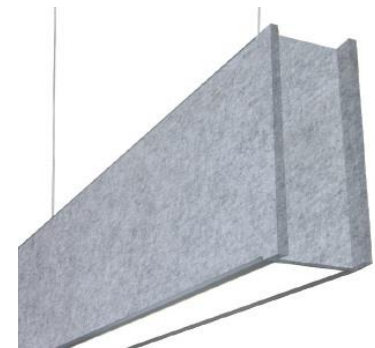
Test Information

Test Method: LM-79-08
Report Number: P331653-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-C485D530U935-4F0-1E-UDD-A4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 530 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

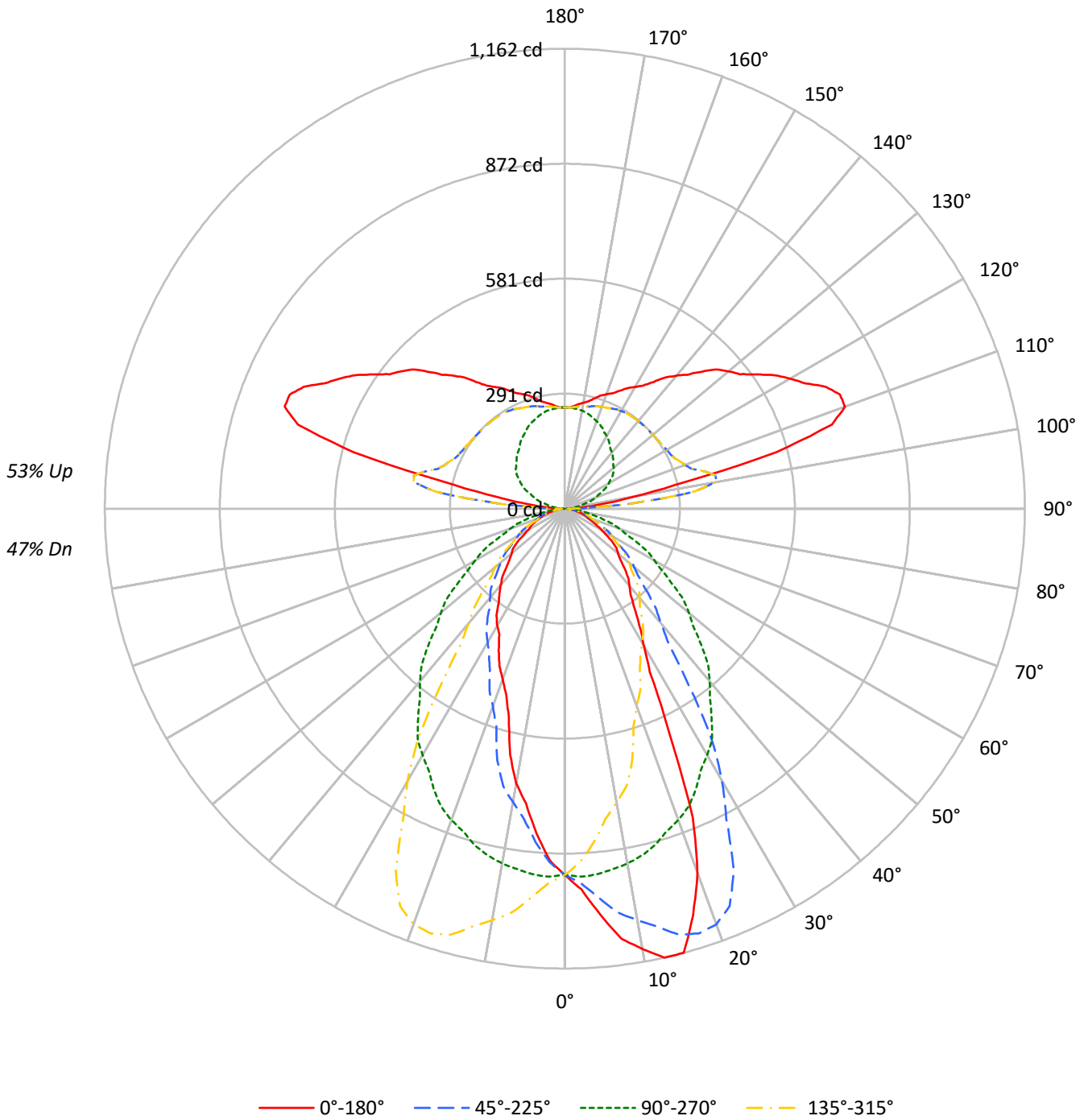
Lumens per Lamp: N/A
Luminaire Lumens: 3378.3 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

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	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	47
1	98	94	90	87	90	87	83	81	73	71	69	60	59	57	49	48	47	41
2	90	83	77	72	82	77	72	67	65	61	58	54	51	49	44	42	41	36
3	82	74	67	61	76	68	62	57	58	53	50	48	45	43	39	37	35	31
4	76	66	58	53	70	61	54	49	52	47	43	44	40	37	36	33	31	28
5	70	59	51	46	64	55	48	43	47	42	38	40	36	33	33	30	28	25
6	65	53	46	40	60	50	43	38	43	37	33	36	32	29	30	27	25	22
7	60	48	41	35	55	45	38	34	39	34	30	33	29	26	28	25	23	20
8	56	44	37	32	52	41	35	30	36	31	27	31	27	24	26	23	21	18
9	52	41	33	29	48	38	32	27	33	28	24	28	24	22	24	21	19	17
10	49	37	30	26	45	35	29	25	31	26	22	26	22	20	22	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	14941	14941	14941	14941
5°	16686	15034	13331	15034
10°	18513	14929	11555	14929
15°	19423	14710	9105	14710
20°	16838	14385	7878	14385
25°	11043	13942	7035	13942
30°	7433	13403	6367	13403
35°	6022	12727	5742	12727
40°	5354	11989	5313	11989
45°	4845	11125	4743	11125
50°	4411	10263	4393	10263
55°	4144	9315	4090	9315
60°	3468	8441	3426	8441
65°	2923	7664	3316	7664
70°	2705	6845	3125	6845
75°	2533	5958	2888	5958
80°	2334	4900	2566	4900
85°	2130	3872	2260	3872



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.7	2.6
10°-20°	244.4	7.2
20°-30°	315.0	9.3
30°-40°	299.3	8.9
40°-50°	256.4	7.6
50°-60°	195.3	5.8
60°-70°	123.4	3.7
70°-80°	61.6	1.8
80°-90°	18.3	0.5
90°-100°	102.1	3.0
100°-110°	346.4	10.3
110°-120°	368.0	10.9
120°-130°	303.0	9.0
130°-140°	243.3	7.2
140°-150°	183.9	5.4
150°-160°	129.2	3.8
160°-170°	76.1	2.3
170°-180°	24.8	0.7
0°-30°	647.1	19.2
0°-40°	946.4	28.0
0°-60°	1398.1	41.4
0°-90°	1601.5	47.4
90°-120°	816.6	24.2
90°-150°	1546.7	45.8
90°-180°	1777.0	52.6
0°-180°	3378.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	925	925	925	925	925	
5°	1030	928	822	928	1030	102
15°	1162	880	545	880	1162	313
25°	620	783	395	783	620	294
35°	306	646	291	646	306	195
45°	212	487	208	487	212	164
55°	147	331	145	331	147	129
65°	76	201	87	201	76	78
75°	41	96	46	96	41	43
85°	12	21	12	21	12	13
90°	16	0	16	0	16	9
95°	56	17	56	17	56	73
105°	553	60	553	60	553	535
115°	728	106	728	106	728	713
125°	591	147	591	147	591	534
135°	490	173	490	173	490	380
145°	391	197	391	197	391	248
155°	328	224	328	224	328	153
165°	288	244	288	244	288	82
175°	260	255	260	255	260	25
180°	255	255	255	255	255	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4
2.5°	962.9	963.7	964.5	962.7	962.7	961.1	957.8	955.2	948.0	946.9	946.9
5°	1029.5	1028.9	1030.2	1026.0	1020.2	1018.9	1012.8	1004.8	996.4	987.1	985.2
7.5°	1095.8	1094.8	1092.3	1091.5	1087.1	1077.4	1067.6	1057.0	1043.2	1029.6	1022.8
10°	1129.2	1139.8	1133.4	1122.1	1124.4	1109.3	1101.2	1087.4	1075.8	1055.6	1051.1
12.5°	1162.1	1166.3	1164.2	1157.9	1155.0	1144.5	1133.7	1121.6	1100.3	1082.1	1066.3
15°	1162.0	1168.1	1169.8	1167.8	1169.4	1168.7	1163.0	1153.0	1134.4	1114.4	1097.1
17.5°	1076.2	1080.5	1091.0	1098.1	1107.2	1126.2	1135.6	1139.3	1136.4	1125.1	1112.8
20°	980.0	972.9	1002.5	1017.6	1030.5	1062.6	1090.3	1100.9	1117.9	1117.7	1114.4
22.5°	843.7	845.3	873.4	891.3	928.9	961.0	992.6	1032.5	1065.5	1087.3	1100.0
25°	619.9	632.1	660.1	684.5	726.3	786.2	840.5	903.5	962.9	1010.0	1054.6
27.5°	465.5	466.5	488.6	511.3	536.1	585.0	653.5	728.8	813.6	883.5	964.0
30°	398.7	396.7	406.1	419.9	441.2	479.1	530.5	604.5	689.1	794.5	888.4
32.5°	351.4	351.5	358.5	368.8	386.3	411.9	447.2	507.2	587.2	690.9	800.9
35°	305.5	305.1	310.3	317.7	325.0	341.5	365.6	397.1	452.1	548.9	661.4
37.5°	272.5	274.0	276.5	281.1	289.2	298.3	312.9	334.0	373.2	430.4	525.0
40°	254.0	254.7	258.2	262.1	266.9	274.0	285.9	302.9	331.5	377.1	446.3
42.5°	237.0	237.6	240.2	243.7	247.5	254.7	264.5	279.2	302.5	338.0	395.1
45°	212.2	212.2	214.5	216.0	220.2	226.7	234.7	246.9	263.0	289.4	327.4
47.5°	188.9	189.0	190.5	193.2	195.9	200.9	208.8	218.8	230.5	250.9	283.3
50°	175.6	175.9	176.8	179.1	180.7	185.2	191.3	200.0	212.2	228.0	254.9
52.5°	164.7	164.5	165.7	166.8	167.8	171.1	175.6	183.3	194.2	207.9	230.3
55°	147.2	145.9	147.9	149.5	150.5	151.8	154.3	159.2	168.5	180.0	196.7
57.5°	125.4	124.8	126.2	127.7	130.7	134.2	136.4	139.5	144.3	152.6	169.2
60°	107.4	107.4	110.3	111.2	114.8	119.2	123.8	126.4	131.2	136.6	148.9
62.5°	91.4	91.7	93.1	94.0	96.0	101.5	107.9	113.5	118.0	123.3	131.4
65°	76.5	77.1	77.1	77.8	79.1	80.4	82.9	87.5	95.5	102.9	109.0
67.5°	64.9	65.2	65.3	66.0	66.3	67.7	68.7	70.8	72.6	79.6	87.2
70°	57.3	58.2	57.9	58.5	58.8	59.5	60.8	61.7	64.7	66.2	70.8
72.5°	50.0	50.7	50.7	51.1	51.9	52.0	53.0	54.0	55.9	57.3	59.7
75°	40.6	40.2	40.6	41.2	41.5	41.8	41.8	43.0	44.1	45.4	46.9
77.5°	31.3	31.6	31.5	31.6	31.6	32.2	32.1	32.7	33.7	34.4	35.1
80°	25.1	25.4	25.1	25.4	25.7	26.0	25.7	26.0	27.0	27.6	27.6
82.5°	19.5	19.5	19.7	19.7	19.8	19.9	20.3	20.4	21.1	20.9	21.2
85°	11.5	11.3	11.3	11.3	11.5	11.9	11.5	11.5	11.9	11.9	11.9
87.5°	7.3	7.6	7.6	7.6	7.6	7.5	7.3	7.7	7.6	8.0	7.6
90°	16.2	16.2	16.2	16.2	16.2	15.7	14.7	15.7	16.2	16.7	16.2
92.5°	27.2	28.0	27.6	29.2	29.5	32.6	36.8	42.8	53.9	63.8	62.9
95°	56.0	55.4	57.0	60.9	67.2	78.1	98.7	128.6	168.4	192.5	170.4
97.5°	110.2	114.3	121.5	133.5	157.0	192.5	245.6	300.2	344.7	328.6	247.5
100°	175.8	184.6	198.9	220.0	260.7	320.1	387.4	448.3	458.6	387.9	267.1
102.5°	309.4	321.3	339.1	375.1	419.4	482.4	531.6	545.4	501.0	389.9	259.7
105°	553.4	560.3	581.3	611.8	642.2	658.5	652.0	596.6	494.5	363.9	245.0
107.5°	706.9	716.0	720.2	721.9	718.1	694.3	643.3	559.6	451.3	336.0	237.7
110°	753.2	753.7	749.3	739.9	718.8	678.6	615.7	527.9	424.2	322.6	236.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	752.4	749.8	741.4	725.8	696.5	650.3	583.2	498.8	405.4	313.9	236.6
115°	728.1	723.8	711.0	688.4	653.6	603.0	538.6	463.0	382.0	304.4	238.7
117.5°	684.8	681.1	667.7	643.9	608.3	560.9	502.5	436.1	367.3	299.8	242.2
120°	656.9	652.0	637.8	614.8	580.4	535.7	483.6	422.8	359.5	297.0	244.5
122.5°	627.9	623.8	611.1	588.4	557.6	517.2	468.0	412.2	352.8	295.5	247.3
125°	590.7	586.8	574.5	555.9	527.4	490.5	447.3	396.7	343.2	292.7	251.4
127.5°	558.1	554.9	544.3	526.8	502.0	468.0	427.3	381.5	334.4	291.0	255.6
130°	539.6	535.7	525.9	509.2	485.1	452.7	414.0	371.7	328.5	290.2	258.7
132.5°	520.4	516.9	507.8	491.1	467.4	437.0	401.4	362.3	323.7	289.8	261.9
135°	489.6	487.6	478.7	462.5	441.4	414.0	381.5	349.1	317.2	289.2	265.6
137.5°	459.3	456.3	448.6	434.6	415.4	391.4	365.8	338.6	312.5	289.1	269.0
140°	438.5	435.5	428.2	415.4	399.7	378.1	355.5	331.9	309.9	288.7	270.5
142.5°	417.7	417.1	410.5	398.9	384.0	365.9	346.5	326.4	307.1	288.7	271.7
145°	390.8	389.3	384.4	376.1	364.4	350.1	334.8	318.7	303.4	287.7	273.0
147.5°	368.3	367.5	364.1	357.5	347.8	337.3	325.5	312.7	299.7	285.9	273.4
150°	355.0	354.5	351.5	345.7	338.3	329.5	319.2	308.3	296.6	284.8	273.0
152.5°	343.6	343.5	341.4	336.2	330.5	322.8	314.1	304.0	293.9	282.8	272.2
155°	328.5	329.5	327.5	324.1	318.7	313.2	305.9	298.1	288.7	279.4	271.0
157.5°	315.6	315.6	314.8	311.9	308.1	303.8	297.6	291.1	283.9	275.9	268.8
160°	307.4	307.4	306.9	304.4	301.0	297.6	292.1	286.7	280.3	273.5	267.6
162.5°	299.5	299.9	299.5	297.7	294.3	291.7	287.1	282.4	277.2	271.6	266.4
165°	288.3	288.7	288.7	286.7	284.8	282.8	279.4	276.0	272.0	267.6	264.2
167.5°	277.8	278.4	278.5	277.4	276.6	274.7	272.4	269.8	266.9	264.2	261.9
170°	271.6	272.5	273.0	271.6	271.0	270.1	268.1	266.7	264.2	262.2	260.7
172.5°	266.4	267.0	267.5	266.8	266.3	265.7	264.2	263.1	261.4	259.8	259.2
175°	259.8	260.7	261.2	260.7	260.7	260.3	259.8	259.2	257.8	257.3	256.8
177.5°	255.7	256.5	256.9	256.9	256.9	256.9	256.5	256.5	255.7	255.3	255.7
180°	255.3	255.3	255.3	255.3	255.3	255.3	255.3	255.3	255.3	255.3	255.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4
2.5°	947.4	945.5	943.7	939.0	936.7	931.5	930.7	930.5	923.9	917.4	915.6
5°	980.0	974.9	967.2	958.1	948.8	939.2	932.7	927.6	914.7	902.5	895.4
7.5°	1012.8	1001.8	988.4	971.4	957.2	941.2	929.4	918.8	900.5	883.0	871.2
10°	1037.2	1019.3	1001.6	978.1	959.8	941.8	925.1	910.6	890.0	866.9	850.4
12.5°	1052.4	1032.6	1008.2	985.3	961.6	938.7	916.3	897.7	873.6	849.6	830.1
15°	1073.0	1051.7	1022.2	989.4	958.8	928.9	903.2	880.0	848.5	819.9	796.1
17.5°	1089.8	1060.5	1028.7	990.8	955.5	917.5	884.3	854.7	819.7	785.1	757.2
20°	1095.1	1066.2	1029.5	991.6	949.8	905.1	869.4	837.2	799.6	762.0	729.9
22.5°	1091.7	1069.3	1028.5	983.1	940.3	893.5	853.3	815.9	774.2	735.8	698.5
25°	1069.1	1061.4	1022.8	973.3	924.4	870.0	823.5	782.6	735.0	693.9	653.3
27.5°	1016.2	1032.9	1008.9	956.1	901.8	843.5	791.2	744.7	695.3	648.9	608.6
30°	965.3	1003.5	993.2	944.3	883.6	826.3	767.5	718.9	666.2	618.6	578.8
32.5°	895.5	958.7	968.8	927.9	865.0	802.1	740.5	692.2	637.1	586.9	548.1
35°	784.5	879.1	922.5	896.4	833.4	765.6	701.9	645.7	590.3	540.8	502.2
37.5°	652.1	780.8	853.3	855.1	797.2	726.7	657.4	601.5	544.8	496.3	454.5
40°	566.2	705.8	800.0	820.9	772.0	695.8	625.7	568.8	513.5	465.9	418.0
42.5°	489.0	628.1	743.9	780.2	741.4	665.7	595.4	535.9	482.1	437.0	388.1
45°	395.5	517.0	644.6	709.6	688.1	617.9	543.7	487.2	436.6	397.7	350.8
47.5°	333.6	419.3	542.8	630.7	630.3	566.3	493.3	439.0	392.2	355.8	317.7
50°	298.3	373.0	477.5	577.1	585.5	531.8	462.4	408.6	365.0	326.7	296.1
52.5°	266.7	328.2	422.1	517.7	541.5	495.0	427.7	378.1	335.6	300.4	274.2
55°	225.4	272.9	344.4	433.8	469.8	437.0	377.1	330.9	296.4	266.9	244.4
57.5°	190.6	226.4	283.6	355.6	397.5	376.9	327.6	290.0	260.5	233.8	216.0
60°	168.8	198.0	246.6	306.8	353.0	338.5	296.4	261.4	236.3	213.2	196.5
62.5°	148.3	173.4	215.0	263.8	306.3	300.2	265.9	236.4	214.5	193.4	179.3
65°	119.2	137.6	170.0	208.4	242.5	245.3	220.6	200.6	181.0	164.3	151.8
67.5°	95.0	106.9	129.8	162.0	187.6	196.7	181.6	166.3	150.8	137.8	127.0
70°	80.1	89.7	106.4	132.5	155.9	165.6	156.9	145.0	131.5	120.9	111.6
72.5°	64.9	74.3	86.6	105.7	125.9	136.3	133.3	124.7	113.7	105.0	96.2
75°	48.9	51.7	60.1	73.0	88.8	97.7	100.0	95.5	86.8	80.1	74.9
77.5°	36.2	37.9	41.8	48.6	58.9	66.9	70.3	69.7	63.7	59.8	55.0
80°	28.9	29.9	31.9	34.7	42.4	50.5	52.7	52.7	48.6	46.9	42.1
82.5°	22.0	22.7	23.8	25.5	29.1	36.1	38.6	39.1	36.4	34.4	30.6
85°	12.6	12.2	12.8	13.9	14.5	16.4	20.2	20.9	20.2	17.7	16.7
87.5°	7.1	6.6	6.1	5.5	5.6	5.7	6.5	7.6	6.8	6.5	6.1
90°	13.3	9.8	7.4	5.9	4.9	4.0	2.0	0.5	2.0	4.0	4.9
92.5°	49.0	33.4	22.3	17.7	14.4	12.1	8.6	6.0	8.6	12.1	14.4
95°	113.4	70.7	48.1	36.3	28.5	24.0	19.1	17.2	19.1	24.0	28.5
97.5°	152.8	93.3	64.9	51.6	42.5	35.8	30.7	28.0	30.7	35.8	42.5
100°	161.1	101.2	75.2	61.4	51.6	43.7	39.3	37.8	39.3	43.7	51.6
102.5°	161.4	108.2	84.1	70.4	60.2	52.3	48.0	46.8	48.0	52.3	60.2
105°	164.0	120.3	97.2	83.4	72.7	65.3	61.9	59.9	61.9	65.3	72.7
107.5°	170.7	132.7	110.3	96.4	85.8	79.0	75.6	74.0	75.6	79.0	85.8
110°	176.2	140.9	119.3	105.0	94.8	88.4	85.4	83.4	85.4	88.4	94.8



TEST NUMBER: P331653-935

CATALOG NUMBER: SA2XXRDIP-C485D530U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	182.2	148.8	127.9	113.3	103.4	97.4	94.1	92.1	94.1	97.4	103.4
115°	191.0	161.1	139.9	126.7	116.8	111.0	108.1	105.6	108.1	111.0	116.8
117.5°	200.4	172.4	152.8	139.1	129.7	124.4	121.5	119.5	121.5	124.4	129.7
120°	206.7	180.2	161.1	147.3	137.5	133.0	130.1	128.1	130.1	133.0	137.5
122.5°	212.2	187.7	169.7	155.6	145.8	140.9	138.0	136.4	138.0	140.9	145.8
125°	220.9	198.9	181.2	167.5	157.6	151.7	148.8	147.3	148.8	151.7	157.6
127.5°	229.1	209.3	192.1	178.0	168.5	162.0	157.9	155.9	157.9	162.0	168.5
130°	234.2	215.6	198.4	184.6	174.8	167.9	163.0	161.1	163.0	167.9	174.8
132.5°	239.4	221.0	204.7	190.9	180.7	173.4	168.2	165.7	168.2	173.4	180.7
135°	246.0	228.9	213.1	199.3	188.0	180.7	174.8	172.8	174.8	180.7	188.0
137.5°	251.1	235.1	219.6	206.8	195.6	187.8	181.8	179.5	181.8	187.8	195.6
140°	253.8	238.7	223.9	211.1	200.4	192.5	186.6	184.6	186.6	192.5	200.4
142.5°	256.2	241.4	227.0	215.1	204.7	196.8	191.3	189.8	191.3	196.8	204.7
145°	259.2	245.5	232.2	221.4	211.6	204.2	199.3	197.4	199.3	204.2	211.6
147.5°	261.0	248.8	236.3	226.8	218.6	211.8	207.1	205.6	207.1	211.8	218.6
150°	261.7	250.4	239.1	230.3	222.9	216.5	212.6	211.1	212.6	216.5	222.9
152.5°	262.1	252.0	241.9	233.8	226.9	221.3	217.3	216.6	217.3	221.3	226.9
155°	262.7	254.3	246.0	238.7	233.2	227.8	224.9	224.4	224.9	227.8	233.2
157.5°	262.7	256.0	248.9	242.8	238.4	233.8	231.4	230.8	231.4	233.8	238.4
160°	262.7	256.8	250.9	245.5	241.6	237.6	235.7	235.2	235.7	237.6	241.6
162.5°	262.3	257.2	252.1	247.9	244.4	241.2	239.2	239.5	239.2	241.2	244.4
165°	261.2	257.8	253.4	250.4	248.0	245.0	244.0	244.5	244.0	245.0	248.0
167.5°	260.5	257.7	254.4	252.6	250.8	248.9	248.1	248.7	248.1	248.9	250.8
170°	259.8	257.3	254.9	253.4	252.4	250.9	250.4	251.4	250.4	250.9	252.4
172.5°	258.6	256.9	255.2	254.2	253.6	252.1	252.4	253.0	252.4	252.1	253.6
175°	257.3	256.3	255.3	254.9	254.9	253.8	254.3	254.9	254.3	253.8	254.9
177.5°	256.5	255.7	255.3	255.3	255.3	254.5	254.9	255.7	254.9	254.5	255.3
180°	255.3	255.3	255.3	255.3	255.3	255.3	255.3	255.3	255.3	255.3	255.3



TEST NUMBER: P331653-935

CATALOG NUMBER: SA2XXRDIP-C485D530U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4
2.5°	912.2	910.4	907.1	902.0	898.9	893.5	889.8	891.9	892.4	891.9	891.4
5°	887.8	881.0	871.7	862.6	854.3	845.3	840.2	837.9	833.4	830.9	829.6
7.5°	858.1	846.4	833.3	817.6	804.3	790.3	783.2	779.6	770.4	765.4	761.0
10°	835.9	817.6	804.4	783.9	771.4	753.0	740.5	740.8	728.2	721.2	716.0
12.5°	811.6	791.4	769.5	751.0	733.6	718.8	703.7	697.6	684.2	677.4	663.6
15°	771.0	747.5	724.4	699.3	681.7	658.8	637.0	610.3	588.8	570.1	564.9
17.5°	726.8	697.8	674.5	645.1	614.8	576.4	551.0	535.5	522.5	512.7	505.4
20°	696.5	666.8	642.1	597.7	556.9	530.8	512.2	500.3	486.8	476.2	470.4
22.5°	664.5	633.7	599.9	550.4	518.6	497.7	481.0	467.4	458.2	450.0	444.7
25°	619.2	585.5	529.9	495.8	470.1	448.2	436.6	428.3	418.6	407.3	402.3
27.5°	571.4	517.7	477.8	452.5	427.9	413.7	403.3	390.8	382.2	377.1	371.8
30°	535.6	482.0	450.8	423.1	405.8	390.0	377.8	370.7	362.4	353.7	350.2
32.5°	495.8	452.9	423.0	400.0	382.4	368.9	359.3	347.8	341.8	336.5	329.1
35°	446.3	413.8	386.5	367.8	351.1	340.2	328.9	322.2	311.3	306.8	303.8
37.5°	404.3	376.2	355.8	336.1	322.9	310.8	303.9	293.2	288.4	282.1	276.0
40°	380.6	353.0	333.5	317.4	302.6	293.5	284.9	276.2	269.1	266.2	258.8
42.5°	356.5	334.0	314.4	296.8	286.9	277.3	266.4	260.0	252.6	248.0	243.4
45°	323.1	303.2	286.5	272.0	261.1	251.2	244.0	233.4	229.3	219.9	216.0
47.5°	293.8	275.3	259.3	245.6	234.9	228.4	218.1	209.7	203.1	197.3	192.4
50°	272.9	257.5	242.1	229.9	220.2	210.9	200.4	196.1	185.8	183.0	180.0
52.5°	253.9	239.3	225.2	213.2	203.5	194.5	185.1	179.7	172.7	169.8	167.7
55°	227.3	213.2	199.7	189.1	179.4	170.0	164.3	157.6	154.3	152.1	149.5
57.5°	200.5	187.9	177.5	166.8	157.0	149.6	142.9	138.9	135.5	132.6	129.5
60°	183.6	171.3	162.0	152.1	142.2	136.0	130.9	126.1	122.2	117.7	116.4
62.5°	165.6	154.9	146.4	136.6	127.9	122.3	117.5	113.0	108.3	101.8	100.0
65°	140.9	132.5	123.5	115.5	107.7	102.3	95.1	90.1	88.1	87.5	87.1
67.5°	118.5	110.6	102.8	94.6	87.6	82.5	78.9	78.1	76.8	76.4	75.5
70°	103.5	96.2	88.4	80.7	74.0	73.0	71.7	70.4	68.8	68.2	67.5
72.5°	90.1	82.5	74.8	68.6	65.7	64.5	63.2	61.9	60.9	60.2	59.8
75°	69.1	62.1	56.9	54.7	53.0	52.1	50.2	49.2	48.6	47.6	47.3
77.5°	49.8	45.8	43.4	42.0	40.3	39.3	38.2	37.2	36.5	36.3	35.8
80°	38.0	36.0	34.4	32.5	31.9	30.6	30.2	29.3	29.6	28.6	28.6
82.5°	29.4	27.0	25.7	24.8	24.1	23.1	22.7	22.3	22.4	21.7	21.7
85°	15.2	14.5	13.9	13.2	13.2	12.2	12.6	12.2	12.2	11.5	11.3
87.5°	6.0	6.1	6.1	6.8	7.3	7.2	7.1	6.7	6.5	6.7	6.5
90°	5.9	7.4	9.8	13.3	16.2	16.7	16.2	15.7	14.7	15.7	16.2
92.5°	17.7	22.3	33.4	49.0	62.9	63.8	53.9	42.8	36.8	32.6	29.5
95°	36.3	48.1	70.7	113.4	170.4	192.5	168.4	128.6	98.7	78.1	67.2
97.5°	51.6	64.9	93.3	152.8	247.5	328.6	344.7	300.2	245.6	192.5	157.0
100°	61.4	75.2	101.2	161.1	267.1	387.9	458.6	448.3	387.4	320.1	260.7
102.5°	70.4	84.1	108.2	161.4	259.7	389.9	501.0	545.4	531.6	482.4	419.4
105°	83.4	97.2	120.3	164.0	245.0	363.9	494.5	596.6	652.0	658.5	642.2
107.5°	96.4	110.3	132.7	170.7	237.7	336.0	451.3	559.6	643.3	694.3	718.1
110°	105.0	119.3	140.9	176.2	236.2	322.6	424.2	527.9	615.7	678.6	718.8



TEST NUMBER: P331653-935

CATALOG NUMBER: SA2XXRDIP-C485D530U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	113.3	127.9	148.8	182.2	236.6	313.9	405.4	498.8	583.2	650.3	696.5
115°	126.7	139.9	161.1	191.0	238.7	304.4	382.0	463.0	538.6	603.0	653.6
117.5°	139.1	152.8	172.4	200.4	242.2	299.8	367.3	436.1	502.5	560.9	608.3
120°	147.3	161.1	180.2	206.7	244.5	297.0	359.5	422.8	483.6	535.7	580.4
122.5°	155.6	169.7	187.7	212.2	247.3	295.5	352.8	412.2	468.0	517.2	557.6
125°	167.5	181.2	198.9	220.9	251.4	292.7	343.2	396.7	447.3	490.5	527.4
127.5°	178.0	192.1	209.3	229.1	255.6	291.0	334.4	381.5	427.3	468.0	502.0
130°	184.6	198.4	215.6	234.2	258.7	290.2	328.5	371.7	414.0	452.7	485.1
132.5°	190.9	204.7	221.0	239.4	261.9	289.8	323.7	362.3	401.4	437.0	467.4
135°	199.3	213.1	228.9	246.0	265.6	289.2	317.2	349.1	381.5	414.0	441.4
137.5°	206.8	219.6	235.1	251.1	269.0	289.1	312.5	338.6	365.8	391.4	415.4
140°	211.1	223.9	238.7	253.8	270.5	288.7	309.9	331.9	355.5	378.1	399.7
142.5°	215.1	227.0	241.4	256.2	271.7	288.7	307.1	326.4	346.5	365.9	384.0
145°	221.4	232.2	245.5	259.2	273.0	287.7	303.4	318.7	334.8	350.1	364.4
147.5°	226.8	236.3	248.8	261.0	273.4	285.9	299.7	312.7	325.5	337.3	347.8
150°	230.3	239.1	250.4	261.7	273.0	284.8	296.6	308.3	319.2	329.5	338.3
152.5°	233.8	241.9	252.0	262.1	272.2	282.8	293.9	304.0	314.1	322.8	330.5
155°	238.7	246.0	254.3	262.7	271.0	279.4	288.7	298.1	305.9	313.2	318.7
157.5°	242.8	248.9	256.0	262.7	268.8	275.9	283.9	291.1	297.6	303.8	308.1
160°	245.5	250.9	256.8	262.7	267.6	273.5	280.3	286.7	292.1	297.6	301.0
162.5°	247.9	252.1	257.2	262.3	266.4	271.6	277.2	282.4	287.1	291.7	294.3
165°	250.4	253.4	257.8	261.2	264.2	267.6	272.0	276.0	279.4	282.8	284.8
167.5°	252.6	254.4	257.7	260.5	261.9	264.2	266.9	269.8	272.4	274.7	276.6
170°	253.4	254.9	257.3	259.8	260.7	262.2	264.2	266.7	268.1	270.1	271.0
172.5°	254.2	255.2	256.9	258.6	259.2	259.8	261.4	263.1	264.2	265.7	266.3
175°	254.9	255.3	256.3	257.3	256.8	257.3	257.8	259.2	259.8	260.3	260.7
177.5°	255.3	255.3	255.7	256.5	255.7	255.3	255.7	256.5	256.5	256.9	256.9
180°	255.3	255.3	255.3	255.3	255.3	255.3	255.3	255.3	255.3	255.3	255.3



TEST NUMBER: P331653-935

CATALOG NUMBER: SA2XXRDIP-C485D530U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4
2.5°	888.6	889.1	888.3	888.8	888.3	889.1	888.6	891.4	891.9	892.4	891.9
5°	827.9	824.1	823.5	822.5	823.5	824.1	827.9	829.6	830.9	833.4	837.9
7.5°	755.5	754.9	753.4	751.1	753.4	754.9	755.5	761.0	765.4	770.4	779.6
10°	708.9	707.4	707.1	704.8	707.1	707.4	708.9	716.0	721.2	728.2	740.8
12.5°	654.4	644.1	643.0	637.4	643.0	644.1	654.4	663.6	677.4	684.2	697.6
15°	557.2	555.3	548.9	544.7	548.9	555.3	557.2	564.9	570.1	588.8	610.3
17.5°	501.6	495.3	493.4	492.5	493.4	495.3	501.6	505.4	512.7	522.5	535.5
20°	465.9	460.1	459.2	458.5	459.2	460.1	465.9	470.4	476.2	486.8	500.3
22.5°	441.2	435.1	432.7	430.8	432.7	435.1	441.2	444.7	450.0	458.2	467.4
25°	399.0	396.7	395.5	394.9	395.5	396.7	399.0	402.3	407.3	418.6	428.3
27.5°	366.0	361.1	360.1	358.4	360.1	361.1	366.0	371.8	377.1	382.2	390.8
30°	347.2	345.6	343.4	341.5	343.4	345.6	347.2	350.2	353.7	362.4	370.7
32.5°	325.1	323.8	321.8	320.9	321.8	323.8	325.1	329.1	336.5	341.8	347.8
35°	300.7	296.1	294.2	291.3	294.2	296.1	300.7	303.8	306.8	311.3	322.2
37.5°	274.7	272.3	269.7	270.6	269.7	272.3	274.7	276.0	282.1	288.4	293.2
40°	254.7	253.0	252.4	252.1	252.4	253.0	254.7	258.8	266.2	269.1	276.2
42.5°	238.7	234.3	232.6	232.6	232.6	234.3	238.7	243.4	248.0	252.6	260.0
45°	214.5	210.3	207.4	207.7	207.4	210.3	214.5	216.0	219.9	229.3	233.4
47.5°	189.7	189.5	187.7	188.3	187.7	189.5	189.7	192.4	197.3	203.1	209.7
50°	177.8	175.9	174.6	174.9	174.6	175.9	177.8	180.0	183.0	185.8	196.1
52.5°	166.5	164.8	163.8	165.1	163.8	164.8	166.5	167.7	169.8	172.7	179.7
55°	147.9	145.9	145.7	145.3	145.7	145.9	147.9	149.5	152.1	154.3	157.6
57.5°	127.2	125.9	123.9	123.1	123.9	125.9	127.2	129.5	132.6	135.5	138.9
60°	112.2	109.6	106.4	106.1	106.4	109.6	112.2	116.4	117.7	122.2	126.1
62.5°	98.6	98.1	97.5	97.4	97.5	98.1	98.6	100.0	101.8	108.3	113.0
65°	86.5	86.2	86.5	86.8	86.5	86.2	86.5	87.1	87.5	88.1	90.1
67.5°	75.3	74.8	74.2	74.5	74.2	74.8	75.3	75.5	76.4	76.8	78.1
70°	66.9	66.6	66.2	66.2	66.2	66.6	66.9	67.5	68.2	68.8	70.4
72.5°	58.6	58.5	58.3	58.0	58.3	58.5	58.6	59.8	60.2	60.9	61.9
75°	46.9	46.3	46.3	46.3	46.3	46.3	46.9	47.3	47.6	48.6	49.2
77.5°	35.7	35.5	35.1	34.9	35.1	35.5	35.7	35.8	36.3	36.5	37.2
80°	28.3	28.0	27.6	27.6	27.6	28.0	28.3	28.6	28.6	29.6	29.3
82.5°	21.6	21.3	21.2	20.9	21.2	21.3	21.6	21.7	21.7	22.4	22.3
85°	11.5	11.9	11.5	12.2	11.5	11.9	11.5	11.3	11.5	12.2	12.2
87.5°	6.5	6.3	6.5	6.3	6.5	6.3	6.5	6.5	6.7	6.5	6.7
90°	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	15.7	14.7	15.7
92.5°	29.2	27.6	28.0	27.2	28.0	27.6	29.2	29.5	32.6	36.8	42.8
95°	60.9	57.0	55.4	56.0	55.4	57.0	60.9	67.2	78.1	98.7	128.6
97.5°	133.5	121.5	114.3	110.2	114.3	121.5	133.5	157.0	192.5	245.6	300.2
100°	220.0	198.9	184.6	175.8	184.6	198.9	220.0	260.7	320.1	387.4	448.3
102.5°	375.1	339.1	321.3	309.4	321.3	339.1	375.1	419.4	482.4	531.6	545.4
105°	611.8	581.3	560.3	553.4	560.3	581.3	611.8	642.2	658.5	652.0	596.6
107.5°	721.9	720.2	716.0	706.9	716.0	720.2	721.9	718.1	694.3	643.3	559.6
110°	739.9	749.3	753.7	753.2	753.7	749.3	739.9	718.8	678.6	615.7	527.9



TEST NUMBER: P331653-935

CATALOG NUMBER: SA2XXRDIP-C485D530U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	725.8	741.4	749.8	752.4	749.8	741.4	725.8	696.5	650.3	583.2	498.8
115°	688.4	711.0	723.8	728.1	723.8	711.0	688.4	653.6	603.0	538.6	463.0
117.5°	643.9	667.7	681.1	684.8	681.1	667.7	643.9	608.3	560.9	502.5	436.1
120°	614.8	637.8	652.0	656.9	652.0	637.8	614.8	580.4	535.7	483.6	422.8
122.5°	588.4	611.1	623.8	627.9	623.8	611.1	588.4	557.6	517.2	468.0	412.2
125°	555.9	574.5	586.8	590.7	586.8	574.5	555.9	527.4	490.5	447.3	396.7
127.5°	526.8	544.3	554.9	558.1	554.9	544.3	526.8	502.0	468.0	427.3	381.5
130°	509.2	525.9	535.7	539.6	535.7	525.9	509.2	485.1	452.7	414.0	371.7
132.5°	491.1	507.8	516.9	520.4	516.9	507.8	491.1	467.4	437.0	401.4	362.3
135°	462.5	478.7	487.6	489.6	487.6	478.7	462.5	441.4	414.0	381.5	349.1
137.5°	434.6	448.6	456.3	459.3	456.3	448.6	434.6	415.4	391.4	365.8	338.6
140°	415.4	428.2	435.5	438.5	435.5	428.2	415.4	399.7	378.1	355.5	331.9
142.5°	398.9	410.5	417.1	417.7	417.1	410.5	398.9	384.0	365.9	346.5	326.4
145°	376.1	384.4	389.3	390.8	389.3	384.4	376.1	364.4	350.1	334.8	318.7
147.5°	357.5	364.1	367.5	368.3	367.5	364.1	357.5	347.8	337.3	325.5	312.7
150°	345.7	351.5	354.5	355.0	354.5	351.5	345.7	338.3	329.5	319.2	308.3
152.5°	336.2	341.4	343.5	343.6	343.5	341.4	336.2	330.5	322.8	314.1	304.0
155°	324.1	327.5	329.5	328.5	329.5	327.5	324.1	318.7	313.2	305.9	298.1
157.5°	311.9	314.8	315.6	315.6	315.6	314.8	311.9	308.1	303.8	297.6	291.1
160°	304.4	306.9	307.4	307.4	307.4	306.9	304.4	301.0	297.6	292.1	286.7
162.5°	297.7	299.5	299.9	299.5	299.9	299.5	297.7	294.3	291.7	287.1	282.4
165°	286.7	288.7	288.7	288.3	288.7	288.7	286.7	284.8	282.8	279.4	276.0
167.5°	277.4	278.5	278.4	277.8	278.4	278.5	277.4	276.6	274.7	272.4	269.8
170°	271.6	273.0	272.5	271.6	272.5	273.0	271.6	271.0	270.1	268.1	266.7
172.5°	266.8	267.5	267.0	266.4	267.0	267.5	266.8	266.3	265.7	264.2	263.1
175°	260.7	261.2	260.7	259.8	260.7	261.2	260.7	260.7	260.3	259.8	259.2
177.5°	256.9	256.9	256.5	255.7	256.5	256.9	256.9	256.9	256.9	256.5	256.5
180°	255.3	255.3	255.3	255.3	255.3	255.3	255.3	255.3	255.3	255.3	255.3



TEST NUMBER: P331653-935

CATALOG NUMBER: SA2XXRDIP-C485D530U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4
2.5°	889.8	893.5	898.9	902.0	907.1	910.4	912.2	915.6	917.4	923.9	930.5
5°	840.2	845.3	854.3	862.6	871.7	881.0	887.8	895.4	902.5	914.7	927.6
7.5°	783.2	790.3	804.3	817.6	833.3	846.4	858.1	871.2	883.0	900.5	918.8
10°	740.5	753.0	771.4	783.9	804.4	817.6	835.9	850.4	866.9	890.0	910.6
12.5°	703.7	718.8	733.6	751.0	769.5	791.4	811.6	830.1	849.6	873.6	897.7
15°	637.0	658.8	681.7	699.3	724.4	747.5	771.0	796.1	819.9	848.5	880.0
17.5°	551.0	576.4	614.8	645.1	674.5	697.8	726.8	757.2	785.1	819.7	854.7
20°	512.2	530.8	556.9	597.7	642.1	666.8	696.5	729.9	762.0	799.6	837.2
22.5°	481.0	497.7	518.6	550.4	599.9	633.7	664.5	698.5	735.8	774.2	815.9
25°	436.6	448.2	470.1	495.8	529.9	585.5	619.2	653.3	693.9	735.0	782.6
27.5°	403.3	413.7	427.9	452.5	477.8	517.7	571.4	608.6	648.9	695.3	744.7
30°	377.8	390.0	405.8	423.1	450.8	482.0	535.6	578.8	618.6	666.2	718.9
32.5°	359.3	368.9	382.4	400.0	423.0	452.9	495.8	548.1	586.9	637.1	692.2
35°	328.9	340.2	351.1	367.8	386.5	413.8	446.3	502.2	540.8	590.3	645.7
37.5°	303.9	310.8	322.9	336.1	355.8	376.2	404.3	454.5	496.3	544.8	601.5
40°	284.9	293.5	302.6	317.4	333.5	353.0	380.6	418.0	465.9	513.5	568.8
42.5°	266.4	277.3	286.9	296.8	314.4	334.0	356.5	388.1	437.0	482.1	535.9
45°	244.0	251.2	261.1	272.0	286.5	303.2	323.1	350.8	397.7	436.6	487.2
47.5°	218.1	228.4	234.9	245.6	259.3	275.3	293.8	317.7	355.8	392.2	439.0
50°	200.4	210.9	220.2	229.9	242.1	257.5	272.9	296.1	326.7	365.0	408.6
52.5°	185.1	194.5	203.5	213.2	225.2	239.3	253.9	274.2	300.4	335.6	378.1
55°	164.3	170.0	179.4	189.1	199.7	213.2	227.3	244.4	266.9	296.4	330.9
57.5°	142.9	149.6	157.0	166.8	177.5	187.9	200.5	216.0	233.8	260.5	290.0
60°	130.9	136.0	142.2	152.1	162.0	171.3	183.6	196.5	213.2	236.3	261.4
62.5°	117.5	122.3	127.9	136.6	146.4	154.9	165.6	179.3	193.4	214.5	236.4
65°	95.1	102.3	107.7	115.5	123.5	132.5	140.9	151.8	164.3	181.0	200.6
67.5°	78.9	82.5	87.6	94.6	102.8	110.6	118.5	127.0	137.8	150.8	166.3
70°	71.7	73.0	74.0	80.7	88.4	96.2	103.5	111.6	120.9	131.5	145.0
72.5°	63.2	64.5	65.7	68.6	74.8	82.5	90.1	96.2	105.0	113.7	124.7
75°	50.2	52.1	53.0	54.7	56.9	62.1	69.1	74.9	80.1	86.8	95.5
77.5°	38.2	39.3	40.3	42.0	43.4	45.8	49.8	55.0	59.8	63.7	69.7
80°	30.2	30.6	31.9	32.5	34.4	36.0	38.0	42.1	46.9	48.6	52.7
82.5°	22.7	23.1	24.1	24.8	25.7	27.0	29.4	30.6	34.4	36.4	39.1
85°	12.6	12.2	13.2	13.2	13.9	14.5	15.2	16.7	17.7	20.2	20.9
87.5°	7.1	7.2	7.3	6.8	6.1	6.1	6.0	6.1	6.5	6.8	7.6
90°	16.2	16.7	16.2	13.3	9.8	7.4	5.9	4.9	4.0	2.0	0.5
92.5°	53.9	63.8	62.9	49.0	33.4	22.3	17.7	14.4	12.1	8.6	6.0
95°	168.4	192.5	170.4	113.4	70.7	48.1	36.3	28.5	24.0	19.1	17.2
97.5°	344.7	328.6	247.5	152.8	93.3	64.9	51.6	42.5	35.8	30.7	28.0
100°	458.6	387.9	267.1	161.1	101.2	75.2	61.4	51.6	43.7	39.3	37.8
102.5°	501.0	389.9	259.7	161.4	108.2	84.1	70.4	60.2	52.3	48.0	46.8
105°	494.5	363.9	245.0	164.0	120.3	97.2	83.4	72.7	65.3	61.9	59.9
107.5°	451.3	336.0	237.7	170.7	132.7	110.3	96.4	85.8	79.0	75.6	74.0
110°	424.2	322.6	236.2	176.2	140.9	119.3	105.0	94.8	88.4	85.4	83.4



TEST NUMBER: P331653-935

CATALOG NUMBER: SA2XXRDIP-C485D530U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	405.4	313.9	236.6	182.2	148.8	127.9	113.3	103.4	97.4	94.1	92.1
115°	382.0	304.4	238.7	191.0	161.1	139.9	126.7	116.8	111.0	108.1	105.6
117.5°	367.3	299.8	242.2	200.4	172.4	152.8	139.1	129.7	124.4	121.5	119.5
120°	359.5	297.0	244.5	206.7	180.2	161.1	147.3	137.5	133.0	130.1	128.1
122.5°	352.8	295.5	247.3	212.2	187.7	169.7	155.6	145.8	140.9	138.0	136.4
125°	343.2	292.7	251.4	220.9	198.9	181.2	167.5	157.6	151.7	148.8	147.3
127.5°	334.4	291.0	255.6	229.1	209.3	192.1	178.0	168.5	162.0	157.9	155.9
130°	328.5	290.2	258.7	234.2	215.6	198.4	184.6	174.8	167.9	163.0	161.1
132.5°	323.7	289.8	261.9	239.4	221.0	204.7	190.9	180.7	173.4	168.2	165.7
135°	317.2	289.2	265.6	246.0	228.9	213.1	199.3	188.0	180.7	174.8	172.8
137.5°	312.5	289.1	269.0	251.1	235.1	219.6	206.8	195.6	187.8	181.8	179.5
140°	309.9	288.7	270.5	253.8	238.7	223.9	211.1	200.4	192.5	186.6	184.6
142.5°	307.1	288.7	271.7	256.2	241.4	227.0	215.1	204.7	196.8	191.3	189.8
145°	303.4	287.7	273.0	259.2	245.5	232.2	221.4	211.6	204.2	199.3	197.4
147.5°	299.7	285.9	273.4	261.0	248.8	236.3	226.8	218.6	211.8	207.1	205.6
150°	296.6	284.8	273.0	261.7	250.4	239.1	230.3	222.9	216.5	212.6	211.1
152.5°	293.9	282.8	272.2	262.1	252.0	241.9	233.8	226.9	221.3	217.3	216.6
155°	288.7	279.4	271.0	262.7	254.3	246.0	238.7	233.2	227.8	224.9	224.4
157.5°	283.9	275.9	268.8	262.7	256.0	248.9	242.8	238.4	233.8	231.4	230.8
160°	280.3	273.5	267.6	262.7	256.8	250.9	245.5	241.6	237.6	235.7	235.2
162.5°	277.2	271.6	266.4	262.3	257.2	252.1	247.9	244.4	241.2	239.2	239.5
165°	272.0	267.6	264.2	261.2	257.8	253.4	250.4	248.0	245.0	244.0	244.5
167.5°	266.9	264.2	261.9	260.5	257.7	254.4	252.6	250.8	248.9	248.1	248.7
170°	264.2	262.2	260.7	259.8	257.3	254.9	253.4	252.4	250.9	250.4	251.4
172.5°	261.4	259.8	259.2	258.6	256.9	255.2	254.2	253.6	252.1	252.4	253.0
175°	257.8	257.3	256.8	257.3	256.3	255.3	254.9	254.9	253.8	254.3	254.9
177.5°	255.7	255.3	255.7	256.5	255.7	255.3	255.3	255.3	254.5	254.9	255.7
180°	255.3	255.3	255.3	255.3	255.3	255.3	255.3	255.3	255.3	255.3	255.3



TEST NUMBER: P331653-935

CATALOG NUMBER: SA2XXRDIP-C485D530U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4	925.4
2.5°	930.7	931.5	936.7	939.0	943.7	945.5	947.4	946.9	946.9	948.0	955.2
5°	932.7	939.2	948.8	958.1	967.2	974.9	980.0	985.2	987.1	996.4	1004.8
7.5°	929.4	941.2	957.2	971.4	988.4	1001.8	1012.8	1022.8	1029.6	1043.2	1057.0
10°	925.1	941.8	959.8	978.1	1001.6	1019.3	1037.2	1051.1	1055.6	1075.8	1087.4
12.5°	916.3	938.7	961.6	985.3	1008.2	1032.6	1052.4	1066.3	1082.1	1100.3	1121.6
15°	903.2	928.9	958.8	989.4	1022.2	1051.7	1073.0	1097.1	1114.4	1134.4	1153.0
17.5°	884.3	917.5	955.5	990.8	1028.7	1060.5	1089.8	1112.8	1125.1	1136.4	1139.3
20°	869.4	905.1	949.8	991.6	1029.5	1066.2	1095.1	1114.4	1117.7	1117.9	1100.9
22.5°	853.3	893.5	940.3	983.1	1028.5	1069.3	1091.7	1100.0	1087.3	1065.5	1032.5
25°	823.5	870.0	924.4	973.3	1022.8	1061.4	1069.1	1054.6	1010.0	962.9	903.5
27.5°	791.2	843.5	901.8	956.1	1008.9	1032.9	1016.2	964.0	883.5	813.6	728.8
30°	767.5	826.3	883.6	944.3	993.2	1003.5	965.3	888.4	794.5	689.1	604.5
32.5°	740.5	802.1	865.0	927.9	968.8	958.7	895.5	800.9	690.9	587.2	507.2
35°	701.9	765.6	833.4	896.4	922.5	879.1	784.5	661.4	548.9	452.1	397.1
37.5°	657.4	726.7	797.2	855.1	853.3	780.8	652.1	525.0	430.4	373.2	334.0
40°	625.7	695.8	772.0	820.9	800.0	705.8	566.2	446.3	377.1	331.5	302.9
42.5°	595.4	665.7	741.4	780.2	743.9	628.1	489.0	395.1	338.0	302.5	279.2
45°	543.7	617.9	688.1	709.6	644.6	517.0	395.5	327.4	289.4	263.0	246.9
47.5°	493.3	566.3	630.3	630.7	542.8	419.3	333.6	283.3	250.9	230.5	218.8
50°	462.4	531.8	585.5	577.1	477.5	373.0	298.3	254.9	228.0	212.2	200.0
52.5°	427.7	495.0	541.5	517.7	422.1	328.2	266.7	230.3	207.9	194.2	183.3
55°	377.1	437.0	469.8	433.8	344.4	272.9	225.4	196.7	180.0	168.5	159.2
57.5°	327.6	376.9	397.5	355.6	283.6	226.4	190.6	169.2	152.6	144.3	139.5
60°	296.4	338.5	353.0	306.8	246.6	198.0	168.8	148.9	136.6	131.2	126.4
62.5°	265.9	300.2	306.3	263.8	215.0	173.4	148.3	131.4	123.3	118.0	113.5
65°	220.6	245.3	242.5	208.4	170.0	137.6	119.2	109.0	102.9	95.5	87.5
67.5°	181.6	196.7	187.6	162.0	129.8	106.9	95.0	87.2	79.6	72.6	70.8
70°	156.9	165.6	155.9	132.5	106.4	89.7	80.1	70.8	66.2	64.7	61.7
72.5°	133.3	136.3	125.9	105.7	86.6	74.3	64.9	59.7	57.3	55.9	54.0
75°	100.0	97.7	88.8	73.0	60.1	51.7	48.9	46.9	45.4	44.1	43.0
77.5°	70.3	66.9	58.9	48.6	41.8	37.9	36.2	35.1	34.4	33.7	32.7
80°	52.7	50.5	42.4	34.7	31.9	29.9	28.9	27.6	27.6	27.0	26.0
82.5°	38.6	36.1	29.1	25.5	23.8	22.7	22.0	21.2	20.9	21.1	20.4
85°	20.2	16.4	14.5	13.9	12.8	12.2	12.6	11.9	11.9	11.9	11.5
87.5°	6.5	5.7	5.6	5.5	6.1	6.6	7.1	7.6	8.0	7.6	7.7
90°	2.0	4.0	4.9	5.9	7.4	9.8	13.3	16.2	16.7	16.2	15.7
92.5°	8.6	12.1	14.4	17.7	22.3	33.4	49.0	62.9	63.8	53.9	42.8
95°	19.1	24.0	28.5	36.3	48.1	70.7	113.4	170.4	192.5	168.4	128.6
97.5°	30.7	35.8	42.5	51.6	64.9	93.3	152.8	247.5	328.6	344.7	300.2
100°	39.3	43.7	51.6	61.4	75.2	101.2	161.1	267.1	387.9	458.6	448.3
102.5°	48.0	52.3	60.2	70.4	84.1	108.2	161.4	259.7	389.9	501.0	545.4
105°	61.9	65.3	72.7	83.4	97.2	120.3	164.0	245.0	363.9	494.5	596.6
107.5°	75.6	79.0	85.8	96.4	110.3	132.7	170.7	237.7	336.0	451.3	559.6
110°	85.4	88.4	94.8	105.0	119.3	140.9	176.2	236.2	322.6	424.2	527.9



TEST NUMBER: P331653-935

CATALOG NUMBER: SA2XXRDIP-C485D530U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	94.1	97.4	103.4	113.3	127.9	148.8	182.2	236.6	313.9	405.4	498.8
115°	108.1	111.0	116.8	126.7	139.9	161.1	191.0	238.7	304.4	382.0	463.0
117.5°	121.5	124.4	129.7	139.1	152.8	172.4	200.4	242.2	299.8	367.3	436.1
120°	130.1	133.0	137.5	147.3	161.1	180.2	206.7	244.5	297.0	359.5	422.8
122.5°	138.0	140.9	145.8	155.6	169.7	187.7	212.2	247.3	295.5	352.8	412.2
125°	148.8	151.7	157.6	167.5	181.2	198.9	220.9	251.4	292.7	343.2	396.7
127.5°	157.9	162.0	168.5	178.0	192.1	209.3	229.1	255.6	291.0	334.4	381.5
130°	163.0	167.9	174.8	184.6	198.4	215.6	234.2	258.7	290.2	328.5	371.7
132.5°	168.2	173.4	180.7	190.9	204.7	221.0	239.4	261.9	289.8	323.7	362.3
135°	174.8	180.7	188.0	199.3	213.1	228.9	246.0	265.6	289.2	317.2	349.1
137.5°	181.8	187.8	195.6	206.8	219.6	235.1	251.1	269.0	289.1	312.5	338.6
140°	186.6	192.5	200.4	211.1	223.9	238.7	253.8	270.5	288.7	309.9	331.9
142.5°	191.3	196.8	204.7	215.1	227.0	241.4	256.2	271.7	288.7	307.1	326.4
145°	199.3	204.2	211.6	221.4	232.2	245.5	259.2	273.0	287.7	303.4	318.7
147.5°	207.1	211.8	218.6	226.8	236.3	248.8	261.0	273.4	285.9	299.7	312.7
150°	212.6	216.5	222.9	230.3	239.1	250.4	261.7	273.0	284.8	296.6	308.3
152.5°	217.3	221.3	226.9	233.8	241.9	252.0	262.1	272.2	282.8	293.9	304.0
155°	224.9	227.8	233.2	238.7	246.0	254.3	262.7	271.0	279.4	288.7	298.1
157.5°	231.4	233.8	238.4	242.8	248.9	256.0	262.7	268.8	275.9	283.9	291.1
160°	235.7	237.6	241.6	245.5	250.9	256.8	262.7	267.6	273.5	280.3	286.7
162.5°	239.2	241.2	244.4	247.9	252.1	257.2	262.3	266.4	271.6	277.2	282.4
165°	244.0	245.0	248.0	250.4	253.4	257.8	261.2	264.2	267.6	272.0	276.0
167.5°	248.1	248.9	250.8	252.6	254.4	257.7	260.5	261.9	264.2	266.9	269.8
170°	250.4	250.9	252.4	253.4	254.9	257.3	259.8	260.7	262.2	264.2	266.7
172.5°	252.4	252.1	253.6	254.2	255.2	256.9	258.6	259.2	259.8	261.4	263.1
175°	254.3	253.8	254.9	254.9	255.3	256.3	257.3	256.8	257.3	257.8	259.2
177.5°	254.9	254.5	255.3	255.3	255.3	255.7	256.5	255.7	255.3	255.7	256.5
180°	255.3	255.3	255.3	255.3	255.3	255.3	255.3	255.3	255.3	255.3	255.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	925.4	925.4	925.4	925.4	925.4	925.4	925.4
2.5°	957.8	961.1	962.7	962.7	964.5	963.7	962.9
5°	1012.8	1018.9	1020.2	1026.0	1030.2	1028.9	1029.5
7.5°	1067.6	1077.4	1087.1	1091.5	1092.3	1094.8	1095.8
10°	1101.2	1109.3	1124.4	1122.1	1133.4	1139.8	1129.2
12.5°	1133.7	1144.5	1155.0	1157.9	1164.2	1166.3	1162.1
15°	1163.0	1168.7	1169.4	1167.8	1169.8	1168.1	1162.0
17.5°	1135.6	1126.2	1107.2	1098.1	1091.0	1080.5	1076.2
20°	1090.3	1062.6	1030.5	1017.6	1002.5	972.9	980.0
22.5°	992.6	961.0	928.9	891.3	873.4	845.3	843.7
25°	840.5	786.2	726.3	684.5	660.1	632.1	619.9
27.5°	653.5	585.0	536.1	511.3	488.6	466.5	465.5
30°	530.5	479.1	441.2	419.9	406.1	396.7	398.7
32.5°	447.2	411.9	386.3	368.8	358.5	351.5	351.4
35°	365.6	341.5	325.0	317.7	310.3	305.1	305.5
37.5°	312.9	298.3	289.2	281.1	276.5	274.0	272.5
40°	285.9	274.0	266.9	262.1	258.2	254.7	254.0
42.5°	264.5	254.7	247.5	243.7	240.2	237.6	237.0
45°	234.7	226.7	220.2	216.0	214.5	212.2	212.2
47.5°	208.8	200.9	195.9	193.2	190.5	189.0	188.9
50°	191.3	185.2	180.7	179.1	176.8	175.9	175.6
52.5°	175.6	171.1	167.8	166.8	165.7	164.5	164.7
55°	154.3	151.8	150.5	149.5	147.9	145.9	147.2
57.5°	136.4	134.2	130.7	127.7	126.2	124.8	125.4
60°	123.8	119.2	114.8	111.2	110.3	107.4	107.4
62.5°	107.9	101.5	96.0	94.0	93.1	91.7	91.4
65°	82.9	80.4	79.1	77.8	77.1	77.1	76.5
67.5°	68.7	67.7	66.3	66.0	65.3	65.2	64.9
70°	60.8	59.5	58.8	58.5	57.9	58.2	57.3
72.5°	53.0	52.0	51.9	51.1	50.7	50.7	50.0
75°	41.8	41.8	41.5	41.2	40.6	40.2	40.6
77.5°	32.1	32.2	31.6	31.6	31.5	31.6	31.3
80°	25.7	26.0	25.7	25.4	25.1	25.4	25.1
82.5°	20.3	19.9	19.8	19.7	19.7	19.5	19.5
85°	11.5	11.9	11.5	11.3	11.3	11.3	11.5
87.5°	7.3	7.5	7.6	7.6	7.6	7.6	7.3
90°	14.7	15.7	16.2	16.2	16.2	16.2	16.2
92.5°	36.8	32.6	29.5	29.2	27.6	28.0	27.2
95°	98.7	78.1	67.2	60.9	57.0	55.4	56.0
97.5°	245.6	192.5	157.0	133.5	121.5	114.3	110.2
100°	387.4	320.1	260.7	220.0	198.9	184.6	175.8
102.5°	531.6	482.4	419.4	375.1	339.1	321.3	309.4
105°	652.0	658.5	642.2	611.8	581.3	560.3	553.4
107.5°	643.3	694.3	718.1	721.9	720.2	716.0	706.9
110°	615.7	678.6	718.8	739.9	749.3	753.7	753.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	583.2	650.3	696.5	725.8	741.4	749.8	752.4
115°	538.6	603.0	653.6	688.4	711.0	723.8	728.1
117.5°	502.5	560.9	608.3	643.9	667.7	681.1	684.8
120°	483.6	535.7	580.4	614.8	637.8	652.0	656.9
122.5°	468.0	517.2	557.6	588.4	611.1	623.8	627.9
125°	447.3	490.5	527.4	555.9	574.5	586.8	590.7
127.5°	427.3	468.0	502.0	526.8	544.3	554.9	558.1
130°	414.0	452.7	485.1	509.2	525.9	535.7	539.6
132.5°	401.4	437.0	467.4	491.1	507.8	516.9	520.4
135°	381.5	414.0	441.4	462.5	478.7	487.6	489.6
137.5°	365.8	391.4	415.4	434.6	448.6	456.3	459.3
140°	355.5	378.1	399.7	415.4	428.2	435.5	438.5
142.5°	346.5	365.9	384.0	398.9	410.5	417.1	417.7
145°	334.8	350.1	364.4	376.1	384.4	389.3	390.8
147.5°	325.5	337.3	347.8	357.5	364.1	367.5	368.3
150°	319.2	329.5	338.3	345.7	351.5	354.5	355.0
152.5°	314.1	322.8	330.5	336.2	341.4	343.5	343.6
155°	305.9	313.2	318.7	324.1	327.5	329.5	328.5
157.5°	297.6	303.8	308.1	311.9	314.8	315.6	315.6
160°	292.1	297.6	301.0	304.4	306.9	307.4	307.4
162.5°	287.1	291.7	294.3	297.7	299.5	299.9	299.5
165°	279.4	282.8	284.8	286.7	288.7	288.7	288.3
167.5°	272.4	274.7	276.6	277.4	278.5	278.4	277.8
170°	268.1	270.1	271.0	271.6	273.0	272.5	271.6
172.5°	264.2	265.7	266.3	266.8	267.5	267.0	266.4
175°	259.8	260.3	260.7	260.7	261.2	260.7	259.8
177.5°	256.5	256.9	256.9	256.9	256.9	256.5	255.7
180°	255.3	255.3	255.3	255.3	255.3	255.3	255.3

(END OF REPORT)