

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: P332915-930

Luminaire Tested: **SA4XXRDIP-C575D1035U930-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332915-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-18,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA4XXRDIP-C575D1035U930-4F0-1E-UDD-A4
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 575 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1035 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5005.5 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: Semi-Indirect

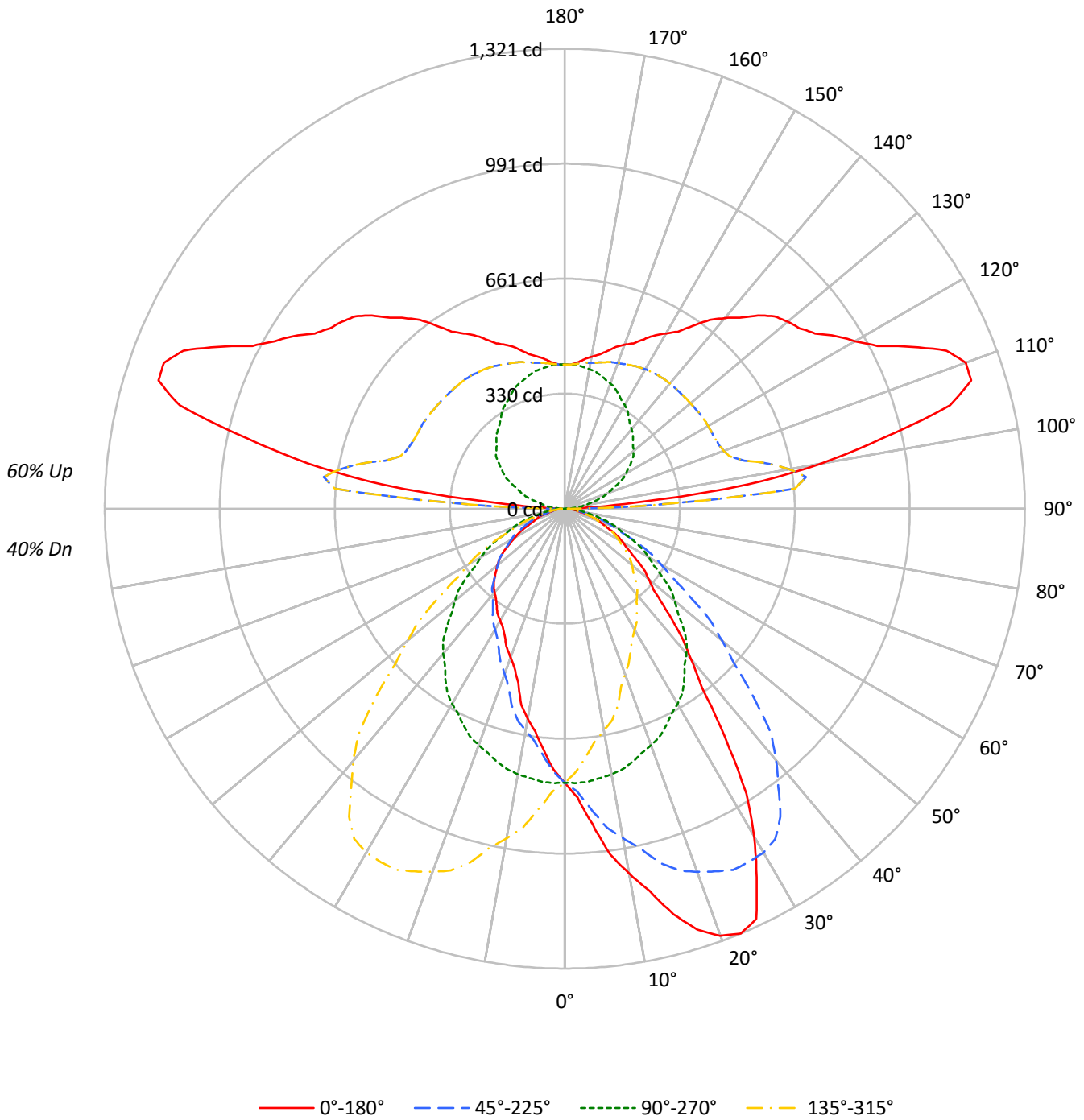
Input Watts (W): 44.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	78	78	78	62	62	62	47	47	47	40
1	96	92	88	85	87	84	81	78	69	66	64	55	53	52	42	41	40	34
2	88	81	75	70	80	74	69	64	60	57	54	48	46	44	37	36	34	29
3	80	71	64	58	73	65	59	54	54	49	46	43	40	38	33	31	30	25
4	73	63	55	50	67	58	51	46	48	43	39	39	35	32	30	28	26	22
5	67	56	48	43	61	52	45	40	43	38	34	35	31	28	27	25	23	19
6	62	50	43	37	56	46	40	35	39	33	30	31	28	25	25	22	20	17
7	57	46	38	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15
8	53	41	34	29	48	38	31	27	32	27	23	26	22	20	21	18	16	14
9	50	38	30	26	45	35	28	24	29	24	21	24	20	18	19	17	15	12
10	46	35	28	23	42	32	26	21	27	22	19	22	19	16	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6356	6356	6356	6356
5°	7373	6375	5635	6375
10°	8722	6347	5029	6347
15°	10074	6288	4322	6288
20°	11217	6208	3908	6208
25°	11580	6128	3628	6128
30°	10137	6032	3459	6032
35°	7890	5889	3358	5889
40°	5917	5727	3303	5727
45°	4672	5465	3273	5465
50°	3945	5163	3180	5163
55°	3438	4830	3009	4830
60°	3094	4487	2662	4487
65°	2728	4115	2290	4115
70°	2455	3729	2068	3729
75°	2059	3306	1762	3306
80°	1739	2817	1650	2817
85°	1473	2205	1473	2205



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.3	1.5
10°-20°	230.1	4.6
20°-30°	359.9	7.2
30°-40°	400.1	8.0
40°-50°	355.0	7.1
50°-60°	276.6	5.5
60°-70°	181.1	3.6
70°-80°	89.1	1.8
80°-90°	24.3	0.5
90°-100°	299.2	6.0
100°-110°	622.8	12.4
110°-120°	557.8	11.1
120°-130°	469.2	9.4
130°-140°	391.2	7.8
140°-150°	298.9	6.0
150°-160°	210.1	4.2
160°-170°	123.6	2.5
170°-180°	40.2	0.8
0°-30°	666.3	13.3
0°-40°	1066.4	21.3
0°-60°	1698.1	33.9
0°-90°	1992.5	39.8
90°-120°	1479.8	29.6
90°-150°	2639.2	52.7
90°-180°	3013.0	60.2
0°-180°	5005.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	787	787	787	787	787	
5°	910	787	695	787	910	92
15°	1205	752	517	752	1205	343
25°	1300	688	407	688	1300	577
35°	801	598	341	598	801	502
45°	409	479	287	479	409	324
55°	244	343	214	343	244	222
65°	143	215	120	215	143	144
75°	66	106	56	106	66	73
85°	16	24	16	24	16	18
90°	17	1	17	1	17	15
95°	199	27	199	27	199	308
105°	1145	95	1145	95	1145	1132
115°	1100	168	1100	168	1100	1092
125°	877	234	877	234	877	797
135°	785	278	785	278	785	606
145°	641	320	641	320	641	406
155°	536	364	536	364	536	250
165°	468	396	468	396	468	134
175°	422	413	422	413	422	41
180°	414	414	414	414	414	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3
2.5°	830.5	832.7	830.5	830.2	827.7	827.0	825.9	822.6	816.5	812.9	813.8
5°	909.8	917.7	913.3	912.6	905.6	898.7	894.2	884.1	873.3	866.0	860.0
7.5°	1001.5	1006.1	1003.3	998.8	987.6	981.1	970.9	957.5	938.2	923.3	909.9
10°	1064.0	1067.7	1066.5	1058.3	1050.0	1033.1	1023.7	1004.9	980.5	961.2	943.1
12.5°	1125.4	1129.4	1118.3	1118.7	1103.0	1089.7	1074.6	1051.2	1022.9	997.9	975.3
15°	1205.4	1200.4	1200.4	1194.0	1176.6	1158.1	1142.6	1117.9	1082.3	1052.6	1021.2
17.5°	1268.1	1269.9	1267.3	1252.3	1238.6	1219.6	1191.1	1162.2	1129.2	1089.2	1057.1
20°	1305.7	1305.7	1302.8	1292.7	1274.9	1254.6	1223.8	1192.5	1150.6	1110.3	1074.1
22.5°	1320.9	1321.9	1318.6	1310.2	1294.2	1274.4	1248.2	1216.3	1173.1	1127.8	1083.0
25°	1300.0	1305.9	1306.6	1304.4	1299.7	1287.6	1265.1	1232.4	1193.7	1144.5	1096.3
27.5°	1193.5	1201.1	1207.8	1218.7	1233.3	1241.0	1241.9	1225.3	1191.6	1144.3	1095.8
30°	1087.4	1093.7	1114.4	1141.3	1162.3	1181.3	1197.8	1202.2	1183.2	1140.7	1089.6
32.5°	969.6	978.3	998.9	1027.9	1062.8	1095.0	1132.1	1151.0	1150.5	1124.9	1077.7
35°	800.6	807.0	826.1	856.5	898.4	946.2	1004.9	1050.6	1081.7	1079.5	1050.6
37.5°	645.7	652.9	672.1	697.4	738.0	797.3	854.1	917.0	974.5	1006.8	997.1
40°	561.5	561.8	580.5	606.5	644.6	696.3	758.1	827.9	892.0	944.4	954.5
42.5°	495.0	495.0	507.4	535.5	562.9	611.6	670.6	739.9	814.9	875.3	902.2
45°	409.2	412.1	422.2	439.0	460.6	501.8	549.1	613.5	697.6	769.2	814.0
47.5°	346.5	350.7	357.2	370.9	388.1	415.6	454.6	512.5	580.9	659.7	723.4
50°	314.1	314.7	322.9	330.5	345.4	367.4	401.6	449.8	512.7	588.4	659.2
52.5°	286.2	286.0	291.0	300.6	312.7	329.8	357.4	401.4	457.1	525.0	598.0
55°	244.3	245.8	249.6	257.2	266.4	278.5	300.4	333.4	377.2	435.2	501.5
57.5°	212.4	213.2	216.2	219.5	227.9	236.7	253.1	276.0	312.9	360.4	422.2
60°	191.6	191.9	192.9	197.6	204.3	212.5	223.6	243.0	274.1	317.6	366.4
62.5°	171.3	171.9	173.3	176.8	182.0	187.7	199.3	214.8	240.6	277.7	321.7
65°	142.8	143.1	145.3	146.6	150.7	155.7	164.3	174.8	192.6	223.6	257.0
67.5°	119.3	119.3	119.4	121.2	124.0	127.3	132.5	140.9	154.3	173.3	202.7
70°	104.0	104.0	104.7	105.7	107.2	110.1	112.9	119.3	129.1	144.6	167.1
72.5°	89.8	90.1	90.7	90.9	91.7	94.1	96.2	100.2	107.5	119.3	137.5
75°	66.0	66.9	68.5	69.8	71.3	71.1	73.3	75.8	78.0	85.0	95.5
77.5°	49.1	48.6	48.8	49.9	50.1	50.4	51.9	53.9	55.6	58.9	62.6
80°	37.4	37.4	38.4	38.7	38.4	38.7	40.3	41.3	41.9	43.1	46.6
82.5°	28.3	28.8	28.5	28.8	29.0	29.4	30.7	30.8	31.5	32.0	33.4
85°	15.9	16.1	16.5	15.9	15.9	15.9	16.5	16.8	17.4	17.1	17.8
87.5°	9.0	8.7	9.1	9.0	9.1	8.8	9.0	9.3	8.6	9.0	8.7
90°	17.1	17.1	17.9	17.1	16.3	16.3	15.5	14.7	13.9	14.7	13.0
92.5°	62.7	62.7	65.5	69.9	79.4	95.7	120.3	159.9	215.1	258.2	225.9
95°	198.6	209.2	223.8	249.1	288.9	367.9	477.0	603.1	682.1	663.3	500.6
97.5°	530.8	547.8	572.2	621.2	679.6	764.6	844.2	891.1	856.9	698.6	468.5
100°	746.4	752.8	777.3	827.0	897.7	958.0	997.8	981.6	862.7	654.4	424.9
102.5°	933.9	939.1	964.8	1000.8	1044.2	1069.3	1057.8	977.1	813.9	599.1	395.6
105°	1145.2	1150.1	1161.5	1168.0	1166.4	1132.9	1052.4	911.6	725.2	533.9	370.3
107.5°	1223.7	1221.6	1213.4	1194.8	1154.6	1082.1	968.6	818.6	653.5	497.5	365.7
110°	1225.0	1217.6	1203.0	1168.8	1111.0	1021.5	903.4	762.6	617.8	485.1	367.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1186.5	1174.7	1154.1	1112.8	1047.2	957.7	846.1	721.6	597.6	479.2	371.0
115°	1099.6	1093.1	1067.1	1018.2	953.9	875.8	780.6	680.4	578.7	476.1	378.5
117.5°	1011.5	1006.5	980.2	939.1	884.3	818.0	743.1	660.2	570.2	475.3	386.5
120°	962.1	953.1	932.0	896.1	849.7	792.0	726.8	651.1	565.7	475.3	392.3
122.5°	923.0	914.0	896.1	865.5	826.3	775.7	716.4	643.4	560.4	474.7	398.2
125°	877.4	872.5	857.0	833.5	800.9	756.1	699.9	630.0	551.9	473.7	407.0
127.5°	850.7	845.8	832.8	811.8	779.1	736.6	680.6	613.7	540.3	471.9	413.9
130°	835.1	830.2	817.2	796.8	763.4	720.3	665.0	600.7	533.1	471.2	419.1
132.5°	817.5	812.6	800.2	777.3	744.6	701.4	647.4	587.0	526.6	470.6	423.7
135°	784.6	779.8	766.7	744.0	711.3	670.7	621.0	568.1	516.8	469.6	430.6
137.5°	744.0	738.1	727.3	704.8	674.4	637.6	595.8	551.1	508.3	469.4	434.6
140°	714.6	708.1	696.8	678.8	650.3	616.1	579.5	541.3	503.9	468.8	437.9
142.5°	683.4	678.8	668.7	652.1	626.9	597.3	565.8	532.1	499.9	468.8	440.5
145°	640.6	636.5	628.4	614.5	594.2	571.4	547.0	519.3	493.3	467.2	442.0
147.5°	602.6	601.2	595.0	583.1	568.1	550.2	530.7	508.7	487.2	464.2	442.8
150°	581.1	580.3	575.4	564.8	551.9	537.2	520.9	502.2	482.7	462.3	442.8
152.5°	561.6	560.8	557.8	549.3	538.2	526.1	511.1	495.0	477.4	459.0	441.5
155°	536.4	536.4	533.9	527.4	519.3	509.5	497.3	484.3	469.6	454.2	439.5
157.5°	514.2	514.2	512.7	507.8	501.7	493.9	483.6	472.7	461.6	449.1	437.4
160°	500.6	500.6	499.8	494.9	490.0	483.5	474.5	465.5	455.8	445.2	435.5
162.5°	487.5	488.2	487.4	482.5	478.9	473.0	466.0	458.4	450.6	441.3	433.5
165°	468.0	468.8	469.6	466.4	463.1	459.0	453.4	448.5	442.0	435.5	429.7
167.5°	452.6	453.2	453.4	451.3	449.6	447.2	442.6	438.9	434.1	429.6	425.8
170°	442.8	442.8	443.6	442.8	441.2	438.7	435.5	433.0	428.9	425.7	423.2
172.5°	433.0	434.3	435.1	434.3	433.3	431.5	429.6	427.8	424.4	421.8	420.6
175°	421.6	423.2	424.9	423.2	423.2	423.2	421.6	420.8	419.1	417.5	417.5
177.5°	414.9	416.2	417.5	416.9	417.5	416.9	416.9	416.2	415.6	414.9	414.9
180°	414.3	414.3	414.3	414.3	414.3	414.3	414.3	414.3	414.3	414.3	414.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3
2.5°	811.2	807.6	805.8	801.8	797.0	794.4	792.1	788.9	784.6	780.0	776.7
5°	852.4	844.7	835.2	823.8	813.7	803.8	795.2	786.7	776.9	766.7	756.6
7.5°	894.6	879.6	863.5	844.7	826.6	810.0	794.8	780.2	763.7	748.9	735.4
10°	924.1	903.8	881.3	857.5	833.6	813.0	792.7	774.3	754.0	736.0	720.7
12.5°	947.9	924.1	897.0	867.3	838.7	813.8	790.4	766.5	743.4	723.7	703.4
15°	987.5	954.8	918.4	882.8	845.7	811.8	780.3	752.4	726.1	698.5	679.1
17.5°	1014.7	975.9	931.6	888.9	845.1	805.0	768.8	735.6	705.2	677.0	654.0
20°	1030.9	988.1	939.0	890.4	841.2	798.4	759.5	722.6	691.2	660.8	637.0
22.5°	1040.1	992.7	939.0	888.1	837.2	790.8	748.0	709.7	675.5	645.1	618.7
25°	1043.0	992.2	937.3	879.0	823.2	774.0	729.6	688.0	650.0	619.5	591.6
27.5°	1038.9	979.2	923.0	863.1	805.5	753.7	707.0	663.3	625.3	592.6	563.9
30°	1032.8	968.8	908.5	846.4	788.0	738.2	689.0	647.1	607.5	573.6	544.7
32.5°	1019.7	956.1	891.3	827.5	768.4	717.1	670.5	628.4	589.5	554.7	524.1
35°	993.5	929.1	858.7	793.4	735.3	682.0	638.2	597.6	560.5	523.4	491.1
37.5°	959.0	893.3	823.2	751.7	693.6	643.3	603.1	565.0	528.7	494.9	459.0
40°	926.6	866.7	794.3	723.3	663.7	615.1	578.0	543.4	507.0	473.3	437.4
42.5°	887.3	836.2	763.1	691.8	632.9	586.1	551.5	517.8	484.6	452.0	414.6
45°	821.6	782.9	714.4	645.9	586.5	540.2	508.5	478.7	449.5	418.4	383.2
47.5°	746.3	720.2	661.0	590.8	536.0	494.3	463.7	439.3	414.6	383.5	352.6
50°	694.1	677.3	620.2	556.1	503.8	465.4	434.0	411.1	390.5	360.7	333.0
52.5°	638.2	629.3	581.1	519.8	469.2	431.6	404.8	384.3	363.4	338.6	312.7
55°	553.3	558.0	517.1	464.1	416.5	384.8	360.4	343.2	325.5	304.5	284.5
57.5°	466.3	483.7	456.2	409.7	365.1	335.8	317.4	303.0	288.1	270.7	253.6
60°	414.3	428.8	413.4	372.4	333.4	306.1	289.0	277.9	262.9	247.1	234.1
62.5°	363.5	379.1	369.9	336.9	300.7	277.2	262.1	251.8	240.7	226.8	213.3
65°	299.8	309.9	305.5	282.7	257.0	236.9	223.0	215.4	205.2	195.1	183.0
67.5°	229.6	249.2	246.6	234.5	212.3	196.7	187.5	180.8	171.5	164.0	155.8
70°	188.7	206.8	206.5	196.7	184.6	170.0	163.7	158.0	149.7	142.4	135.7
72.5°	154.5	171.0	173.5	166.0	157.8	146.7	140.6	136.6	128.7	123.7	118.2
75°	108.2	120.3	123.4	123.4	119.6	113.9	108.5	106.0	100.2	95.8	92.6
77.5°	70.9	78.5	83.5	84.6	85.2	83.3	78.8	77.0	72.7	71.1	68.1
80°	50.1	55.2	60.9	62.8	64.4	63.8	61.9	60.6	56.5	54.9	53.6
82.5°	34.7	37.4	42.2	46.3	45.9	47.5	45.9	44.8	41.7	41.2	39.9
85°	18.1	18.4	19.0	21.9	23.5	24.1	24.5	23.8	22.8	22.8	20.6
87.5°	8.4	8.2	7.7	7.7	7.7	8.6	8.9	8.8	8.3	8.1	7.5
90°	11.4	11.4	6.5	6.5	5.7	4.9	2.4	0.8	2.4	4.9	5.7
92.5°	164.4	101.3	59.9	43.0	31.1	21.2	13.5	9.3	13.5	21.2	31.1
95°	306.1	172.5	101.7	67.6	48.0	37.4	29.3	26.8	29.3	37.4	48.0
97.5°	275.1	164.9	110.4	81.7	65.0	55.2	48.2	48.2	48.2	55.2	65.0
100°	258.9	166.9	118.9	92.8	77.3	67.6	61.9	61.9	61.9	67.6	77.3
102.5°	254.3	173.3	129.9	105.2	90.3	81.2	76.1	74.8	76.1	81.2	90.3
105°	256.4	188.8	149.8	126.1	111.5	101.7	97.7	95.2	97.7	101.7	111.5
107.5°	268.4	206.9	171.0	147.8	133.8	123.4	119.4	117.7	119.4	123.4	133.8
110°	277.5	220.5	184.7	162.8	148.1	138.4	134.3	132.6	134.3	138.4	148.1



TEST NUMBER: P332915-930

CATALOG NUMBER: SA4XXRDIP-C575D1035U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	287.3	233.6	199.1	177.1	162.5	153.4	148.6	147.0	148.6	153.4	162.5
115°	302.8	254.0	221.4	199.4	183.9	175.8	170.1	167.7	170.1	175.8	183.9
117.5°	318.5	273.6	242.7	219.9	205.5	196.5	191.4	189.1	191.4	196.5	205.5
120°	329.6	287.3	256.4	233.6	219.7	210.8	205.1	203.5	205.1	210.8	219.7
122.5°	340.1	300.4	269.4	247.3	232.1	223.8	218.1	216.5	218.1	223.8	232.1
125°	355.7	318.2	288.9	266.1	250.7	241.7	236.8	233.6	236.8	241.7	250.7
127.5°	369.2	334.8	306.6	283.6	267.4	257.2	251.4	248.7	251.4	257.2	267.4
130°	377.6	345.9	318.2	294.6	279.2	266.9	260.5	257.2	260.5	266.9	279.2
132.5°	386.1	355.1	327.3	305.1	288.3	276.7	268.2	265.6	268.2	276.7	288.3
135°	397.2	367.9	341.0	319.8	302.8	288.9	280.8	277.5	280.8	288.9	302.8
137.5°	405.0	377.6	352.6	332.4	314.6	301.5	292.5	289.4	292.5	301.5	314.6
140°	410.2	384.2	359.8	340.2	323.1	309.3	300.4	297.9	300.4	309.3	323.1
142.5°	414.1	390.0	366.2	347.4	330.9	317.7	309.5	307.0	309.5	317.7	330.9
145°	418.3	396.4	375.2	357.3	341.9	330.4	322.3	319.8	322.3	330.4	341.9
147.5°	422.1	402.9	383.0	366.9	354.1	342.3	335.2	334.4	335.2	342.3	354.1
150°	424.0	406.2	388.2	372.8	360.6	350.8	344.3	343.5	344.3	350.8	360.6
152.5°	425.3	408.8	392.8	378.6	367.7	358.7	352.1	352.0	352.1	358.7	367.7
155°	426.5	412.6	398.8	386.6	377.6	369.5	364.6	363.8	364.6	369.5	377.6
157.5°	426.5	415.4	403.7	394.1	386.3	379.9	375.4	375.4	375.4	379.9	386.3
160°	426.5	416.7	407.0	398.0	391.5	385.8	382.5	382.5	382.5	385.8	391.5
162.5°	426.5	418.0	409.0	401.9	396.1	391.0	388.4	389.1	388.4	391.0	396.1
165°	424.9	418.3	411.0	406.2	402.1	398.0	396.4	396.4	396.4	398.0	402.1
167.5°	422.9	418.2	412.8	409.1	406.8	403.7	402.9	403.7	402.9	403.7	406.8
170°	421.6	417.5	413.4	411.0	409.4	407.0	406.2	407.0	406.2	407.0	409.4
172.5°	420.3	416.9	414.1	412.3	411.3	409.5	409.4	410.2	409.4	409.5	411.3
175°	418.3	415.9	414.3	414.3	413.4	412.6	412.6	413.4	412.6	412.6	413.4
177.5°	416.2	414.9	414.3	414.3	414.3	413.6	414.3	414.9	414.3	413.6	414.3
180°	414.3	414.3	414.3	414.3	414.3	414.3	414.3	414.3	414.3	414.3	414.3



TEST NUMBER: P332915-930

CATALOG NUMBER: SA4XXRDIP-C575D1035U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3
2.5°	773.1	770.6	767.3	763.4	758.9	754.9	753.1	754.6	755.4	753.3	753.1
5°	749.6	741.7	735.3	725.8	718.2	711.8	707.4	705.5	706.1	701.1	699.8
7.5°	723.1	713.7	703.4	692.0	681.5	672.2	667.3	664.6	659.3	657.0	653.1
10°	706.1	693.4	683.3	669.9	657.9	646.8	641.4	637.0	631.6	629.0	623.6
12.5°	688.6	673.9	662.8	648.9	636.6	623.2	618.1	609.8	601.4	596.1	589.1
15°	663.9	646.2	632.5	616.0	601.4	586.2	572.6	557.3	551.6	539.6	532.6
17.5°	635.0	617.0	600.1	578.0	555.5	536.6	522.0	507.5	498.7	491.1	487.5
20°	616.0	599.6	576.1	550.4	525.3	504.3	492.6	483.1	473.6	468.2	464.4
22.5°	598.0	577.0	549.7	522.0	496.9	480.5	470.6	460.8	453.1	447.9	442.9
25°	567.9	540.2	511.4	479.6	462.5	448.3	437.4	429.5	424.8	418.1	415.6
27.5°	536.8	503.4	471.5	450.2	432.4	419.3	409.9	404.0	397.9	393.6	390.4
30°	512.9	479.0	450.5	430.2	412.1	401.3	393.6	386.7	382.0	378.5	375.9
32.5°	489.3	455.4	431.4	409.6	395.3	384.8	376.7	371.5	367.7	363.2	361.7
35°	455.2	425.1	404.1	384.5	369.9	360.4	354.0	348.6	345.4	344.2	343.2
37.5°	422.4	397.7	375.2	359.1	346.1	338.6	331.1	328.5	326.3	324.0	325.1
40°	401.6	378.5	358.5	341.4	330.8	322.6	318.1	315.0	313.1	313.1	313.1
42.5°	383.6	360.9	341.4	326.1	315.6	308.7	303.7	301.0	300.4	300.1	301.7
45°	355.6	334.7	315.0	302.3	293.4	286.4	283.6	281.4	281.4	282.7	283.0
47.5°	327.9	308.3	292.4	278.3	270.1	265.8	263.3	262.1	262.3	263.5	265.0
50°	310.9	291.6	276.0	263.3	255.7	251.5	249.3	248.7	249.3	249.3	251.5
52.5°	292.4	275.0	259.8	249.1	240.4	236.6	235.4	234.5	234.9	235.9	236.8
55°	265.2	249.6	235.1	224.9	218.6	216.1	213.2	213.5	212.9	213.5	213.5
57.5°	238.0	224.0	210.4	202.4	196.8	193.1	190.0	190.9	190.0	189.8	189.3
60°	220.5	205.2	194.4	187.2	180.8	177.7	174.8	175.5	174.5	173.8	172.6
62.5°	201.5	188.7	178.5	171.5	166.3	162.7	159.8	159.1	156.9	154.8	152.0
65°	173.8	163.4	154.2	147.5	142.8	139.9	137.7	135.7	131.0	126.0	123.4
67.5°	147.0	139.4	130.9	125.2	121.4	117.6	113.4	110.1	105.7	102.9	101.3
70°	129.7	122.5	115.1	109.7	105.7	102.2	97.3	95.1	92.0	90.7	89.1
72.5°	113.2	106.5	99.6	94.8	90.4	87.6	84.0	81.7	80.3	79.8	78.2
75°	88.2	82.8	77.7	73.3	69.8	67.9	66.3	64.7	64.1	61.2	59.6
77.5°	64.3	60.7	57.6	54.5	51.9	50.7	47.6	45.8	44.8	43.4	43.0
80°	50.1	47.6	44.4	42.5	39.1	37.7	36.4	36.2	35.9	35.5	35.2
82.5°	37.7	35.1	32.0	30.8	29.9	29.1	28.4	28.0	27.7	27.9	27.9
85°	19.0	17.8	17.8	17.4	17.1	16.8	16.5	16.5	16.1	16.5	16.1
87.5°	7.7	7.4	8.4	7.8	8.5	8.8	8.3	8.5	9.0	8.6	8.6
90°	6.5	6.5	11.4	11.4	13.0	14.7	13.9	14.7	15.5	16.3	16.3
92.5°	43.0	59.9	101.3	164.4	225.9	258.2	215.1	159.9	120.3	95.7	79.4
95°	67.6	101.7	172.5	306.1	500.6	663.3	682.1	603.1	477.0	367.9	288.9
97.5°	81.7	110.4	164.9	275.1	468.5	698.6	856.9	891.1	844.2	764.6	679.6
100°	92.8	118.9	166.9	258.9	424.9	654.4	862.7	981.6	997.8	958.0	897.7
102.5°	105.2	129.9	173.3	254.3	395.6	599.1	813.9	977.1	1057.8	1069.3	1044.2
105°	126.1	149.8	188.8	256.4	370.3	533.9	725.2	911.6	1052.4	1132.9	1166.4
107.5°	147.8	171.0	206.9	268.4	365.7	497.5	653.5	818.6	968.6	1082.1	1154.6
110°	162.8	184.7	220.5	277.5	367.0	485.1	617.8	762.6	903.4	1021.5	1111.0



TEST NUMBER: P332915-930

CATALOG NUMBER: SA4XXRDIP-C575D1035U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	177.1	199.1	233.6	287.3	371.0	479.2	597.6	721.6	846.1	957.7	1047.2
115°	199.4	221.4	254.0	302.8	378.5	476.1	578.7	680.4	780.6	875.8	953.9
117.5°	219.9	242.7	273.6	318.5	386.5	475.3	570.2	660.2	743.1	818.0	884.3
120°	233.6	256.4	287.3	329.6	392.3	475.3	565.7	651.1	726.8	792.0	849.7
122.5°	247.3	269.4	300.4	340.1	398.2	474.7	560.4	643.4	716.4	775.7	826.3
125°	266.1	288.9	318.2	355.7	407.0	473.7	551.9	630.0	699.9	756.1	800.9
127.5°	283.6	306.6	334.8	369.2	413.9	471.9	540.3	613.7	680.6	736.6	779.1
130°	294.6	318.2	345.9	377.6	419.1	471.2	533.1	600.7	665.0	720.3	763.4
132.5°	305.1	327.3	355.1	386.1	423.7	470.6	526.6	587.0	647.4	701.4	744.6
135°	319.8	341.0	367.9	397.2	430.6	469.6	516.8	568.1	621.0	670.7	711.3
137.5°	332.4	352.6	377.6	405.0	434.6	469.4	508.3	551.1	595.8	637.6	674.4
140°	340.2	359.8	384.2	410.2	437.9	468.8	503.9	541.3	579.5	616.1	650.3
142.5°	347.4	366.2	390.0	414.1	440.5	468.8	499.9	532.1	565.8	597.3	626.9
145°	357.3	375.2	396.4	418.3	442.0	467.2	493.3	519.3	547.0	571.4	594.2
147.5°	366.9	383.0	402.9	422.1	442.8	464.2	487.2	508.7	530.7	550.2	568.1
150°	372.8	388.2	406.2	424.0	442.8	462.3	482.7	502.2	520.9	537.2	551.9
152.5°	378.6	392.8	408.8	425.3	441.5	459.0	477.4	495.0	511.1	526.1	538.2
155°	386.6	398.8	412.6	426.5	439.5	454.2	469.6	484.3	497.3	509.5	519.3
157.5°	394.1	403.7	415.4	426.5	437.4	449.1	461.6	472.7	483.6	493.9	501.7
160°	398.0	407.0	416.7	426.5	435.5	445.2	455.8	465.5	474.5	483.5	490.0
162.5°	401.9	409.0	418.0	426.5	433.5	441.3	450.6	458.4	466.0	473.0	478.9
165°	406.2	411.0	418.3	424.9	429.7	435.5	442.0	448.5	453.4	459.0	463.1
167.5°	409.1	412.8	418.2	422.9	425.8	429.6	434.1	438.9	442.6	447.2	449.6
170°	411.0	413.4	417.5	421.6	423.2	425.7	428.9	433.0	435.5	438.7	441.2
172.5°	412.3	414.1	416.9	420.3	420.6	421.8	424.4	427.8	429.6	431.5	433.3
175°	414.3	414.3	415.9	418.3	417.5	417.5	419.1	420.8	421.6	423.2	423.2
177.5°	414.3	414.3	414.9	416.2	414.9	414.9	415.6	416.2	416.9	416.9	417.5
180°	414.3	414.3	414.3	414.3	414.3	414.3	414.3	414.3	414.3	414.3	414.3



TEST NUMBER: P332915-930

CATALOG NUMBER: SA4XXRDIP-C575D1035U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3
2.5°	751.5	752.0	750.3	749.7	750.3	752.0	751.5	753.1	753.3	755.4	754.6
5°	697.2	696.6	695.0	695.4	695.0	696.6	697.2	699.8	701.1	706.1	705.5
7.5°	650.8	648.3	649.1	646.5	649.1	648.3	650.8	653.1	657.0	659.3	664.6
10°	622.4	618.9	616.0	613.5	616.0	618.9	622.4	623.6	629.0	631.6	637.0
12.5°	583.6	580.6	576.7	577.5	576.7	580.6	583.6	589.1	596.1	601.4	609.8
15°	528.5	523.7	516.1	517.1	516.1	523.7	528.5	532.6	539.6	551.6	557.3
17.5°	481.8	481.9	478.4	479.2	478.4	481.9	481.8	487.5	491.1	498.7	507.5
20°	457.7	455.5	455.8	454.9	455.8	455.5	457.7	464.4	468.2	473.6	483.1
22.5°	441.0	438.3	436.0	434.1	436.0	438.3	441.0	442.9	447.9	453.1	460.8
25°	412.7	410.8	408.0	407.3	408.0	410.8	412.7	415.6	418.1	424.8	429.5
27.5°	387.8	387.4	386.3	384.8	386.3	387.4	387.8	390.4	393.6	397.9	404.0
30°	373.3	372.8	372.1	371.1	372.1	372.8	373.3	375.9	378.5	382.0	386.7
32.5°	360.4	360.0	359.4	359.5	359.4	360.0	360.4	361.7	363.2	367.7	371.5
35°	341.9	341.6	341.0	340.7	341.0	341.6	341.9	343.2	344.2	345.4	348.6
37.5°	324.7	325.5	325.1	325.1	325.1	325.5	324.7	325.1	324.0	326.3	328.5
40°	312.7	313.1	313.7	313.4	313.7	313.1	312.7	313.1	313.1	313.1	315.0
42.5°	302.9	303.0	303.9	302.7	303.9	303.0	302.9	301.7	300.1	300.4	301.0
45°	285.2	287.1	286.7	286.7	286.7	287.1	285.2	283.0	282.7	281.4	281.4
47.5°	265.8	267.5	267.9	267.8	267.9	267.5	265.8	265.0	263.5	262.3	262.1
50°	253.2	252.5	253.5	253.2	253.5	252.5	253.2	251.5	249.3	249.3	248.7
52.5°	237.7	237.8	237.7	237.4	237.7	237.8	237.7	236.8	235.9	234.9	234.5
55°	213.8	214.1	213.5	213.8	213.5	214.1	213.8	213.5	213.5	212.9	213.5
57.5°	187.9	186.4	187.0	186.3	187.0	186.4	187.9	189.3	189.8	190.0	190.9
60°	169.4	166.9	166.2	164.9	166.2	166.9	169.4	172.6	173.8	174.5	175.5
62.5°	148.5	146.8	144.6	145.7	144.6	146.8	148.5	152.0	154.8	156.9	159.1
65°	120.8	119.6	118.6	119.9	118.6	119.6	120.8	123.4	126.0	131.0	135.7
67.5°	100.0	99.4	99.4	98.7	99.4	99.4	100.0	101.3	102.9	105.7	110.1
70°	89.1	88.2	88.2	87.6	88.2	88.2	89.1	89.1	90.7	92.0	95.1
72.5°	77.9	77.0	77.3	76.9	77.3	77.0	77.9	78.2	79.8	80.3	81.7
75°	57.7	56.2	56.2	56.5	56.2	56.2	57.7	59.6	61.2	64.1	64.7
77.5°	43.0	42.7	43.2	42.6	43.2	42.7	43.0	43.0	43.4	44.8	45.8
80°	35.2	34.9	34.6	35.5	34.6	34.9	35.2	35.2	35.5	35.9	36.2
82.5°	27.3	27.3	27.2	28.5	27.2	27.3	27.3	27.9	27.9	27.7	28.0
85°	16.5	15.9	16.5	15.9	16.5	15.9	16.5	16.1	16.5	16.1	16.5
87.5°	9.3	9.1	8.7	9.0	8.7	9.1	9.3	8.6	8.6	9.0	8.5
90°	17.1	17.9	17.1	17.1	17.1	17.9	17.1	16.3	16.3	15.5	14.7
92.5°	69.9	65.5	62.7	62.7	62.7	65.5	69.9	79.4	95.7	120.3	159.9
95°	249.1	223.8	209.2	198.6	209.2	223.8	249.1	288.9	367.9	477.0	603.1
97.5°	621.2	572.2	547.8	530.8	547.8	572.2	621.2	679.6	764.6	844.2	891.1
100°	827.0	777.3	752.8	746.4	752.8	777.3	827.0	897.7	958.0	997.8	981.6
102.5°	1000.8	964.8	939.1	933.9	939.1	964.8	1000.8	1044.2	1069.3	1057.8	977.1
105°	1168.0	1161.5	1150.1	1145.2	1150.1	1161.5	1168.0	1166.4	1132.9	1052.4	911.6
107.5°	1194.8	1213.4	1221.6	1223.7	1221.6	1213.4	1194.8	1154.6	1082.1	968.6	818.6
110°	1168.8	1203.0	1217.6	1225.0	1217.6	1203.0	1168.8	1111.0	1021.5	903.4	762.6



TEST NUMBER: P332915-930

CATALOG NUMBER: SA4XXRDIP-C575D1035U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1112.8	1154.1	1174.7	1186.5	1174.7	1154.1	1112.8	1047.2	957.7	846.1	721.6
115°	1018.2	1067.1	1093.1	1099.6	1093.1	1067.1	1018.2	953.9	875.8	780.6	680.4
117.5°	939.1	980.2	1006.5	1011.5	1006.5	980.2	939.1	884.3	818.0	743.1	660.2
120°	896.1	932.0	953.1	962.1	953.1	932.0	896.1	849.7	792.0	726.8	651.1
122.5°	865.5	896.1	914.0	923.0	914.0	896.1	865.5	826.3	775.7	716.4	643.4
125°	833.5	857.0	872.5	877.4	872.5	857.0	833.5	800.9	756.1	699.9	630.0
127.5°	811.8	832.8	845.8	850.7	845.8	832.8	811.8	779.1	736.6	680.6	613.7
130°	796.8	817.2	830.2	835.1	830.2	817.2	796.8	763.4	720.3	665.0	600.7
132.5°	777.3	800.2	812.6	817.5	812.6	800.2	777.3	744.6	701.4	647.4	587.0
135°	744.0	766.7	779.8	784.6	779.8	766.7	744.0	711.3	670.7	621.0	568.1
137.5°	704.8	727.3	738.1	744.0	738.1	727.3	704.8	674.4	637.6	595.8	551.1
140°	678.8	696.8	708.1	714.6	708.1	696.8	678.8	650.3	616.1	579.5	541.3
142.5°	652.1	668.7	678.8	683.4	678.8	668.7	652.1	626.9	597.3	565.8	532.1
145°	614.5	628.4	636.5	640.6	636.5	628.4	614.5	594.2	571.4	547.0	519.3
147.5°	583.1	595.0	601.2	602.6	601.2	595.0	583.1	568.1	550.2	530.7	508.7
150°	564.8	575.4	580.3	581.1	580.3	575.4	564.8	551.9	537.2	520.9	502.2
152.5°	549.3	557.8	560.8	561.6	560.8	557.8	549.3	538.2	526.1	511.1	495.0
155°	527.4	533.9	536.4	536.4	536.4	533.9	527.4	519.3	509.5	497.3	484.3
157.5°	507.8	512.7	514.2	514.2	514.2	512.7	507.8	501.7	493.9	483.6	472.7
160°	494.9	499.8	500.6	500.6	500.6	499.8	494.9	490.0	483.5	474.5	465.5
162.5°	482.5	487.4	488.2	487.5	488.2	487.4	482.5	478.9	473.0	466.0	458.4
165°	466.4	469.6	468.8	468.0	468.8	469.6	466.4	463.1	459.0	453.4	448.5
167.5°	451.3	453.4	453.2	452.6	453.2	453.4	451.3	449.6	447.2	442.6	438.9
170°	442.8	443.6	442.8	442.8	442.8	443.6	442.8	441.2	438.7	435.5	433.0
172.5°	434.3	435.1	434.3	433.0	434.3	435.1	434.3	433.3	431.5	429.6	427.8
175°	423.2	424.9	423.2	421.6	423.2	424.9	423.2	423.2	423.2	421.6	420.8
177.5°	416.9	417.5	416.2	414.9	416.2	417.5	416.9	417.5	416.9	416.9	416.2
180°	414.3	414.3	414.3	414.3	414.3	414.3	414.3	414.3	414.3	414.3	414.3



TEST NUMBER: P332915-930

CATALOG NUMBER: SA4XXRDIP-C575D1035U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3
2.5°	753.1	754.9	758.9	763.4	767.3	770.6	773.1	776.7	780.0	784.6	788.9
5°	707.4	711.8	718.2	725.8	735.3	741.7	749.6	756.6	766.7	776.9	786.7
7.5°	667.3	672.2	681.5	692.0	703.4	713.7	723.1	735.4	748.9	763.7	780.2
10°	641.4	646.8	657.9	669.9	683.3	693.4	706.1	720.7	736.0	754.0	774.3
12.5°	618.1	623.2	636.6	648.9	662.8	673.9	688.6	703.4	723.7	743.4	766.5
15°	572.6	586.2	601.4	616.0	632.5	646.2	663.9	679.1	698.5	726.1	752.4
17.5°	522.0	536.6	555.5	578.0	600.1	617.0	635.0	654.0	677.0	705.2	735.6
20°	492.6	504.3	525.3	550.4	576.1	599.6	616.0	637.0	660.8	691.2	722.6
22.5°	470.6	480.5	496.9	522.0	549.7	577.0	598.0	618.7	645.1	675.5	709.7
25°	437.4	448.3	462.5	479.6	511.4	540.2	567.9	591.6	619.5	650.0	688.0
27.5°	409.9	419.3	432.4	450.2	471.5	503.4	536.8	563.9	592.6	625.3	663.3
30°	393.6	401.3	412.1	430.2	450.5	479.0	512.9	544.7	573.6	607.5	647.1
32.5°	376.7	384.8	395.3	409.6	431.4	455.4	489.3	524.1	554.7	589.5	628.4
35°	354.0	360.4	369.9	384.5	404.1	425.1	455.2	491.1	523.4	560.5	597.6
37.5°	331.1	338.6	346.1	359.1	375.2	397.7	422.4	459.0	494.9	528.7	565.0
40°	318.1	322.6	330.8	341.4	358.5	378.5	401.6	437.4	473.3	507.0	543.4
42.5°	303.7	308.7	315.6	326.1	341.4	360.9	383.6	414.6	452.0	484.6	517.8
45°	283.6	286.4	293.4	302.3	315.0	334.7	355.6	383.2	418.4	449.5	478.7
47.5°	263.3	265.8	270.1	278.3	292.4	308.3	327.9	352.6	383.5	414.6	439.3
50°	249.3	251.5	255.7	263.3	276.0	291.6	310.9	333.0	360.7	390.5	411.1
52.5°	235.4	236.6	240.4	249.1	259.8	275.0	292.4	312.7	338.6	363.4	384.3
55°	213.2	216.1	218.6	224.9	235.1	249.6	265.2	284.5	304.5	325.5	343.2
57.5°	190.0	193.1	196.8	202.4	210.4	224.0	238.0	253.6	270.7	288.1	303.0
60°	174.8	177.7	180.8	187.2	194.4	205.2	220.5	234.1	247.1	262.9	277.9
62.5°	159.8	162.7	166.3	171.5	178.5	188.7	201.5	213.3	226.8	240.7	251.8
65°	137.7	139.9	142.8	147.5	154.2	163.4	173.8	183.0	195.1	205.2	215.4
67.5°	113.4	117.6	121.4	125.2	130.9	139.4	147.0	155.8	164.0	171.5	180.8
70°	97.3	102.2	105.7	109.7	115.1	122.5	129.7	135.7	142.4	149.7	158.0
72.5°	84.0	87.6	90.4	94.8	99.6	106.5	113.2	118.2	123.7	128.7	136.6
75°	66.3	67.9	69.8	73.3	77.7	82.8	88.2	92.6	95.8	100.2	106.0
77.5°	47.6	50.7	51.9	54.5	57.6	60.7	64.3	68.1	71.1	72.7	77.0
80°	36.4	37.7	39.1	42.5	44.4	47.6	50.1	53.6	54.9	56.5	60.6
82.5°	28.4	29.1	29.9	30.8	32.0	35.1	37.7	39.9	41.2	41.7	44.8
85°	16.5	16.8	17.1	17.4	17.8	17.8	19.0	20.6	22.8	22.8	23.8
87.5°	8.3	8.8	8.5	7.8	8.4	7.4	7.7	7.5	8.1	8.3	8.8
90°	13.9	14.7	13.0	11.4	11.4	6.5	6.5	5.7	4.9	2.4	0.8
92.5°	215.1	258.2	225.9	164.4	101.3	59.9	43.0	31.1	21.2	13.5	9.3
95°	682.1	663.3	500.6	306.1	172.5	101.7	67.6	48.0	37.4	29.3	26.8
97.5°	856.9	698.6	468.5	275.1	164.9	110.4	81.7	65.0	55.2	48.2	48.2
100°	862.7	654.4	424.9	258.9	166.9	118.9	92.8	77.3	67.6	61.9	61.9
102.5°	813.9	599.1	395.6	254.3	173.3	129.9	105.2	90.3	81.2	76.1	74.8
105°	725.2	533.9	370.3	256.4	188.8	149.8	126.1	111.5	101.7	97.7	95.2
107.5°	653.5	497.5	365.7	268.4	206.9	171.0	147.8	133.8	123.4	119.4	117.7
110°	617.8	485.1	367.0	277.5	220.5	184.7	162.8	148.1	138.4	134.3	132.6



TEST NUMBER: P332915-930

CATALOG NUMBER: SA4XXRDIP-C575D1035U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	597.6	479.2	371.0	287.3	233.6	199.1	177.1	162.5	153.4	148.6	147.0
115°	578.7	476.1	378.5	302.8	254.0	221.4	199.4	183.9	175.8	170.1	167.7
117.5°	570.2	475.3	386.5	318.5	273.6	242.7	219.9	205.5	196.5	191.4	189.1
120°	565.7	475.3	392.3	329.6	287.3	256.4	233.6	219.7	210.8	205.1	203.5
122.5°	560.4	474.7	398.2	340.1	300.4	269.4	247.3	232.1	223.8	218.1	216.5
125°	551.9	473.7	407.0	355.7	318.2	288.9	266.1	250.7	241.7	236.8	233.6
127.5°	540.3	471.9	413.9	369.2	334.8	306.6	283.6	267.4	257.2	251.4	248.7
130°	533.1	471.2	419.1	377.6	345.9	318.2	294.6	279.2	266.9	260.5	257.2
132.5°	526.6	470.6	423.7	386.1	355.1	327.3	305.1	288.3	276.7	268.2	265.6
135°	516.8	469.6	430.6	397.2	367.9	341.0	319.8	302.8	288.9	280.8	277.5
137.5°	508.3	469.4	434.6	405.0	377.6	352.6	332.4	314.6	301.5	292.5	289.4
140°	503.9	468.8	437.9	410.2	384.2	359.8	340.2	323.1	309.3	300.4	297.9
142.5°	499.9	468.8	440.5	414.1	390.0	366.2	347.4	330.9	317.7	309.5	307.0
145°	493.3	467.2	442.0	418.3	396.4	375.2	357.3	341.9	330.4	322.3	319.8
147.5°	487.2	464.2	442.8	422.1	402.9	383.0	366.9	354.1	342.3	335.2	334.4
150°	482.7	462.3	442.8	424.0	406.2	388.2	372.8	360.6	350.8	344.3	343.5
152.5°	477.4	459.0	441.5	425.3	408.8	392.8	378.6	367.7	358.7	352.1	352.0
155°	469.6	454.2	439.5	426.5	412.6	398.8	386.6	377.6	369.5	364.6	363.8
157.5°	461.6	449.1	437.4	426.5	415.4	403.7	394.1	386.3	379.9	375.4	375.4
160°	455.8	445.2	435.5	426.5	416.7	407.0	398.0	391.5	385.8	382.5	382.5
162.5°	450.6	441.3	433.5	426.5	418.0	409.0	401.9	396.1	391.0	388.4	389.1
165°	442.0	435.5	429.7	424.9	418.3	411.0	406.2	402.1	398.0	396.4	396.4
167.5°	434.1	429.6	425.8	422.9	418.2	412.8	409.1	406.8	403.7	402.9	403.7
170°	428.9	425.7	423.2	421.6	417.5	413.4	411.0	409.4	407.0	406.2	407.0
172.5°	424.4	421.8	420.6	420.3	416.9	414.1	412.3	411.3	409.5	409.4	410.2
175°	419.1	417.5	417.5	418.3	415.9	414.3	414.3	413.4	412.6	412.6	413.4
177.5°	415.6	414.9	414.9	416.2	414.9	414.3	414.3	414.3	413.6	414.3	414.9
180°	414.3	414.3	414.3	414.3	414.3	414.3	414.3	414.3	414.3	414.3	414.3



TEST NUMBER: P332915-930

CATALOG NUMBER: SA4XXRDIP-C575D1035U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3
2.5°	792.1	794.4	797.0	801.8	805.8	807.6	811.2	813.8	812.9	816.5	822.6
5°	795.2	803.8	813.7	823.8	835.2	844.7	852.4	860.0	866.0	873.3	884.1
7.5°	794.8	810.0	826.6	844.7	863.5	879.6	894.6	909.9	923.3	938.2	957.5
10°	792.7	813.0	833.6	857.5	881.3	903.8	924.1	943.1	961.2	980.5	1004.9
12.5°	790.4	813.8	838.7	867.3	897.0	924.1	947.9	975.3	997.9	1022.9	1051.2
15°	780.3	811.8	845.7	882.8	918.4	954.8	987.5	1021.2	1052.6	1082.3	1117.9
17.5°	768.8	805.0	845.1	888.9	931.6	975.9	1014.7	1057.1	1089.2	1129.2	1162.2
20°	759.5	798.4	841.2	890.4	939.0	988.1	1030.9	1074.1	1110.3	1150.6	1192.5
22.5°	748.0	790.8	837.2	888.1	939.0	992.7	1040.1	1083.0	1127.8	1173.1	1216.3
25°	729.6	774.0	823.2	879.0	937.3	992.2	1043.0	1096.3	1144.5	1193.7	1232.4
27.5°	707.0	753.7	805.5	863.1	923.0	979.2	1038.9	1095.8	1144.3	1191.6	1225.3
30°	689.0	738.2	788.0	846.4	908.5	968.8	1032.8	1089.6	1140.7	1183.2	1202.2
32.5°	670.5	717.1	768.4	827.5	891.3	956.1	1019.7	1077.7	1124.9	1150.5	1151.0
35°	638.2	682.0	735.3	793.4	858.7	929.1	993.5	1050.6	1079.5	1081.7	1050.6
37.5°	603.1	643.3	693.6	751.7	823.2	893.3	959.0	997.1	1006.8	974.5	917.0
40°	578.0	615.1	663.7	723.3	794.3	866.7	926.6	954.5	944.4	892.0	827.9
42.5°	551.5	586.1	632.9	691.8	763.1	836.2	887.3	902.2	875.3	814.9	739.9
45°	508.5	540.2	586.5	645.9	714.4	782.9	821.6	814.0	769.2	697.6	613.5
47.5°	463.7	494.3	536.0	590.8	661.0	720.2	746.3	723.4	659.7	580.9	512.5
50°	434.0	465.4	503.8	556.1	620.2	677.3	694.1	659.2	588.4	512.7	449.8
52.5°	404.8	431.6	469.2	519.8	581.1	629.3	638.2	598.0	525.0	457.1	401.4
55°	360.4	384.8	416.5	464.1	517.1	558.0	553.3	501.5	435.2	377.2	333.4
57.5°	317.4	335.8	365.1	409.7	456.2	483.7	466.3	422.2	360.4	312.9	276.0
60°	289.0	306.1	333.4	372.4	413.4	428.8	414.3	366.4	317.6	274.1	243.0
62.5°	262.1	277.2	300.7	336.9	369.9	379.1	363.5	321.7	277.7	240.6	214.8
65°	223.0	236.9	257.0	282.7	305.5	309.9	299.8	257.0	223.6	192.6	174.8
67.5°	187.5	196.7	212.3	234.5	246.6	249.2	229.6	202.7	173.3	154.3	140.9
70°	163.7	170.0	184.6	196.7	206.5	206.8	188.7	167.1	144.6	129.1	119.3
72.5°	140.6	146.7	157.8	166.0	173.5	171.0	154.5	137.5	119.3	107.5	100.2
75°	108.5	113.9	119.6	123.4	123.4	120.3	108.2	95.5	85.0	78.0	75.8
77.5°	78.8	83.3	85.2	84.6	83.5	78.5	70.9	62.6	58.9	55.6	53.9
80°	61.9	63.8	64.4	62.8	60.9	55.2	50.1	46.6	43.1	41.9	41.3
82.5°	45.9	47.5	45.9	46.3	42.2	37.4	34.7	33.4	32.0	31.5	30.8
85°	24.5	24.1	23.5	21.9	19.0	18.4	18.1	17.8	17.1	17.4	16.8
87.5°	8.9	8.6	7.7	7.7	7.7	8.2	8.4	8.7	9.0	8.6	9.3
90°	2.4	4.9	5.7	6.5	6.5	11.4	11.4	13.0	14.7	13.9	14.7
92.5°	13.5	21.2	31.1	43.0	59.9	101.3	164.4	225.9	258.2	215.1	159.9
95°	29.3	37.4	48.0	67.6	101.7	172.5	306.1	500.6	663.3	682.1	603.1
97.5°	48.2	55.2	65.0	81.7	110.4	164.9	275.1	468.5	698.6	856.9	891.1
100°	61.9	67.6	77.3	92.8	118.9	166.9	258.9	424.9	654.4	862.7	981.6
102.5°	76.1	81.2	90.3	105.2	129.9	173.3	254.3	395.6	599.1	813.9	977.1
105°	97.7	101.7	111.5	126.1	149.8	188.8	256.4	370.3	533.9	725.2	911.6
107.5°	119.4	123.4	133.8	147.8	171.0	206.9	268.4	365.7	497.5	653.5	818.6
110°	134.3	138.4	148.1	162.8	184.7	220.5	277.5	367.0	485.1	617.8	762.6



TEST NUMBER: P332915-930

CATALOG NUMBER: SA4XXRDIP-C575D1035U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	148.6	153.4	162.5	177.1	199.1	233.6	287.3	371.0	479.2	597.6	721.6
115°	170.1	175.8	183.9	199.4	221.4	254.0	302.8	378.5	476.1	578.7	680.4
117.5°	191.4	196.5	205.5	219.9	242.7	273.6	318.5	386.5	475.3	570.2	660.2
120°	205.1	210.8	219.7	233.6	256.4	287.3	329.6	392.3	475.3	565.7	651.1
122.5°	218.1	223.8	232.1	247.3	269.4	300.4	340.1	398.2	474.7	560.4	643.4
125°	236.8	241.7	250.7	266.1	288.9	318.2	355.7	407.0	473.7	551.9	630.0
127.5°	251.4	257.2	267.4	283.6	306.6	334.8	369.2	413.9	471.9	540.3	613.7
130°	260.5	266.9	279.2	294.6	318.2	345.9	377.6	419.1	471.2	533.1	600.7
132.5°	268.2	276.7	288.3	305.1	327.3	355.1	386.1	423.7	470.6	526.6	587.0
135°	280.8	288.9	302.8	319.8	341.0	367.9	397.2	430.6	469.6	516.8	568.1
137.5°	292.5	301.5	314.6	332.4	352.6	377.6	405.0	434.6	469.4	508.3	551.1
140°	300.4	309.3	323.1	340.2	359.8	384.2	410.2	437.9	468.8	503.9	541.3
142.5°	309.5	317.7	330.9	347.4	366.2	390.0	414.1	440.5	468.8	499.9	532.1
145°	322.3	330.4	341.9	357.3	375.2	396.4	418.3	442.0	467.2	493.3	519.3
147.5°	335.2	342.3	354.1	366.9	383.0	402.9	422.1	442.8	464.2	487.2	508.7
150°	344.3	350.8	360.6	372.8	388.2	406.2	424.0	442.8	462.3	482.7	502.2
152.5°	352.1	358.7	367.7	378.6	392.8	408.8	425.3	441.5	459.0	477.4	495.0
155°	364.6	369.5	377.6	386.6	398.8	412.6	426.5	439.5	454.2	469.6	484.3
157.5°	375.4	379.9	386.3	394.1	403.7	415.4	426.5	437.4	449.1	461.6	472.7
160°	382.5	385.8	391.5	398.0	407.0	416.7	426.5	435.5	445.2	455.8	465.5
162.5°	388.4	391.0	396.1	401.9	409.0	418.0	426.5	433.5	441.3	450.6	458.4
165°	396.4	398.0	402.1	406.2	411.0	418.3	424.9	429.7	435.5	442.0	448.5
167.5°	402.9	403.7	406.8	409.1	412.8	418.2	422.9	425.8	429.6	434.1	438.9
170°	406.2	407.0	409.4	411.0	413.4	417.5	421.6	423.2	425.7	428.9	433.0
172.5°	409.4	409.5	411.3	412.3	414.1	416.9	420.3	420.6	421.8	424.4	427.8
175°	412.6	412.6	413.4	414.3	414.3	415.9	418.3	417.5	417.5	419.1	420.8
177.5°	414.3	413.6	414.3	414.3	414.3	414.9	416.2	414.9	414.9	415.6	416.2
180°	414.3	414.3	414.3	414.3	414.3	414.3	414.3	414.3	414.3	414.3	414.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	787.3	787.3	787.3	787.3	787.3	787.3	787.3
2.5°	825.9	827.0	827.7	830.2	830.5	832.7	830.5
5°	894.2	898.7	905.6	912.6	913.3	917.7	909.8
7.5°	970.9	981.1	987.6	998.8	1003.3	1006.1	1001.5
10°	1023.7	1033.1	1050.0	1058.3	1066.5	1067.7	1064.0
12.5°	1074.6	1089.7	1103.0	1118.7	1118.3	1129.4	1125.4
15°	1142.6	1158.1	1176.6	1194.0	1200.4	1200.4	1205.4
17.5°	1191.1	1219.6	1238.6	1252.3	1267.3	1269.9	1268.1
20°	1223.8	1254.6	1274.9	1292.7	1302.8	1305.7	1305.7
22.5°	1248.2	1274.4	1294.2	1310.2	1318.6	1321.9	1320.9
25°	1265.1	1287.6	1299.7	1304.4	1306.6	1305.9	1300.0
27.5°	1241.9	1241.0	1233.3	1218.7	1207.8	1201.1	1193.5
30°	1197.8	1181.3	1162.3	1141.3	1114.4	1093.7	1087.4
32.5°	1132.1	1095.0	1062.8	1027.9	998.9	978.3	969.6
35°	1004.9	946.2	898.4	856.5	826.1	807.0	800.6
37.5°	854.1	797.3	738.0	697.4	672.1	652.9	645.7
40°	758.1	696.3	644.6	606.5	580.5	561.8	561.5
42.5°	670.6	611.6	562.9	535.5	507.4	495.0	495.0
45°	549.1	501.8	460.6	439.0	422.2	412.1	409.2
47.5°	454.6	415.6	388.1	370.9	357.2	350.7	346.5
50°	401.6	367.4	345.4	330.5	322.9	314.7	314.1
52.5°	357.4	329.8	312.7	300.6	291.0	286.0	286.2
55°	300.4	278.5	266.4	257.2	249.6	245.8	244.3
57.5°	253.1	236.7	227.9	219.5	216.2	213.2	212.4
60°	223.6	212.5	204.3	197.6	192.9	191.9	191.6
62.5°	199.3	187.7	182.0	176.8	173.3	171.9	171.3
65°	164.3	155.7	150.7	146.6	145.3	143.1	142.8
67.5°	132.5	127.3	124.0	121.2	119.4	119.3	119.3
70°	112.9	110.1	107.2	105.7	104.7	104.0	104.0
72.5°	96.2	94.1	91.7	90.9	90.7	90.1	89.8
75°	73.3	71.1	71.3	69.8	68.5	66.9	66.0
77.5°	51.9	50.4	50.1	49.9	48.8	48.6	49.1
80°	40.3	38.7	38.4	38.7	38.4	37.4	37.4
82.5°	30.7	29.4	29.0	28.8	28.5	28.8	28.3
85°	16.5	15.9	15.9	15.9	16.5	16.1	15.9
87.5°	9.0	8.8	9.1	9.0	9.1	8.7	9.0
90°	15.5	16.3	16.3	17.1	17.9	17.1	17.1
92.5°	120.3	95.7	79.4	69.9	65.5	62.7	62.7
95°	477.0	367.9	288.9	249.1	223.8	209.2	198.6
97.5°	844.2	764.6	679.6	621.2	572.2	547.8	530.8
100°	997.8	958.0	897.7	827.0	777.3	752.8	746.4
102.5°	1057.8	1069.3	1044.2	1000.8	964.8	939.1	933.9
105°	1052.4	1132.9	1166.4	1168.0	1161.5	1150.1	1145.2
107.5°	968.6	1082.1	1154.6	1194.8	1213.4	1221.6	1223.7
110°	903.4	1021.5	1111.0	1168.8	1203.0	1217.6	1225.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	846.1	957.7	1047.2	1112.8	1154.1	1174.7	1186.5
115°	780.6	875.8	953.9	1018.2	1067.1	1093.1	1099.6
117.5°	743.1	818.0	884.3	939.1	980.2	1006.5	1011.5
120°	726.8	792.0	849.7	896.1	932.0	953.1	962.1
122.5°	716.4	775.7	826.3	865.5	896.1	914.0	923.0
125°	699.9	756.1	800.9	833.5	857.0	872.5	877.4
127.5°	680.6	736.6	779.1	811.8	832.8	845.8	850.7
130°	665.0	720.3	763.4	796.8	817.2	830.2	835.1
132.5°	647.4	701.4	744.6	777.3	800.2	812.6	817.5
135°	621.0	670.7	711.3	744.0	766.7	779.8	784.6
137.5°	595.8	637.6	674.4	704.8	727.3	738.1	744.0
140°	579.5	616.1	650.3	678.8	696.8	708.1	714.6
142.5°	565.8	597.3	626.9	652.1	668.7	678.8	683.4
145°	547.0	571.4	594.2	614.5	628.4	636.5	640.6
147.5°	530.7	550.2	568.1	583.1	595.0	601.2	602.6
150°	520.9	537.2	551.9	564.8	575.4	580.3	581.1
152.5°	511.1	526.1	538.2	549.3	557.8	560.8	561.6
155°	497.3	509.5	519.3	527.4	533.9	536.4	536.4
157.5°	483.6	493.9	501.7	507.8	512.7	514.2	514.2
160°	474.5	483.5	490.0	494.9	499.8	500.6	500.6
162.5°	466.0	473.0	478.9	482.5	487.4	488.2	487.5
165°	453.4	459.0	463.1	466.4	469.6	468.8	468.0
167.5°	442.6	447.2	449.6	451.3	453.4	453.2	452.6
170°	435.5	438.7	441.2	442.8	443.6	442.8	442.8
172.5°	429.6	431.5	433.3	434.3	435.1	434.3	433.0
175°	421.6	423.2	423.2	423.2	424.9	423.2	421.6
177.5°	416.9	416.9	417.5	416.9	417.5	416.2	414.9
180°	414.3	414.3	414.3	414.3	414.3	414.3	414.3

(END OF REPORT)