

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: P332909

Luminaire Tested: **SA4XXRDIP-C575D810U835-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332909
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-C575D810U835-4F0-1E-UDD-A4
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 575 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 810 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

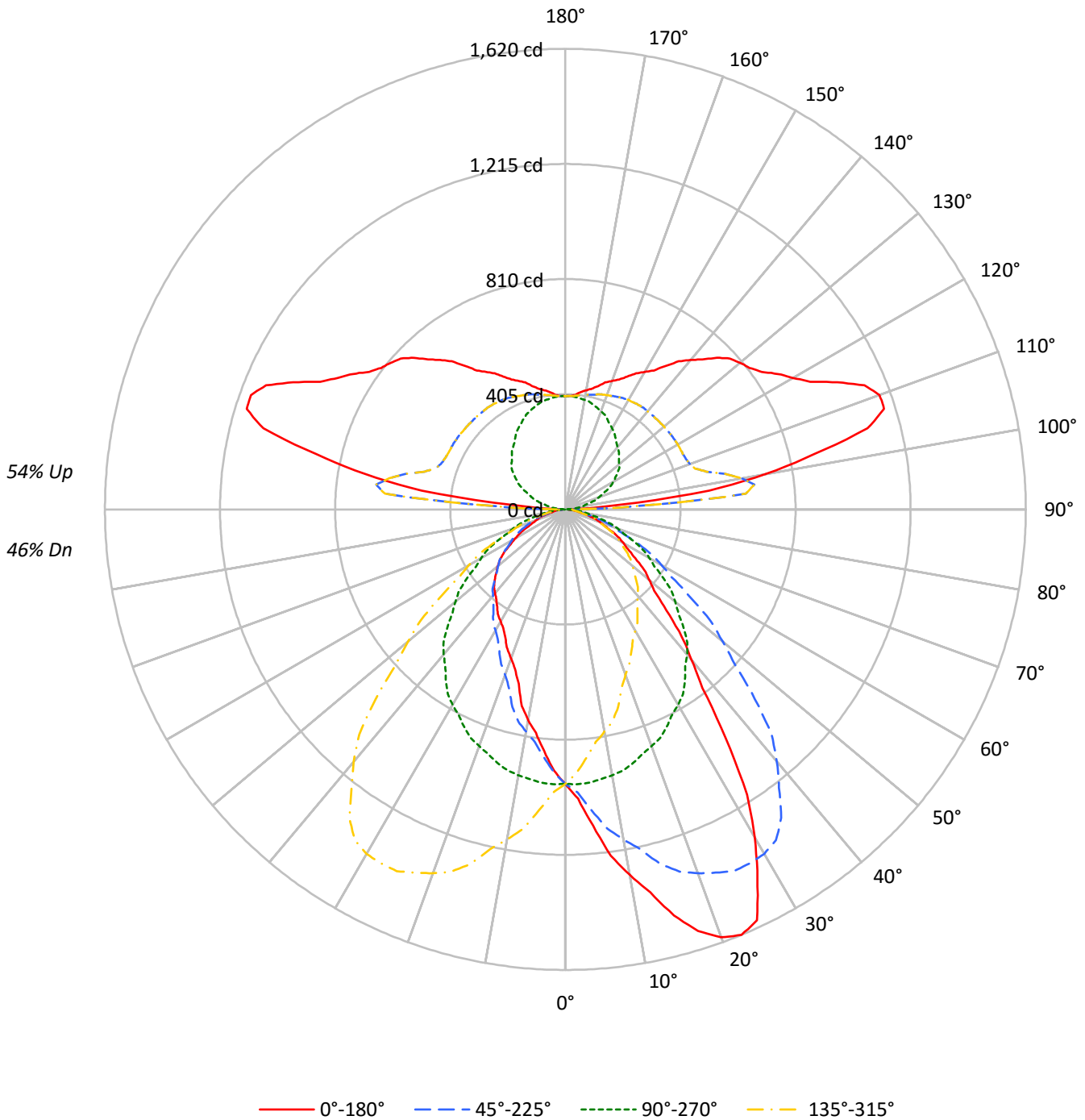
Lumens per Lamp: N/A
Luminaire Lumens: 5337.9 lumens
Efficiency: N/A
Efficacy: 139.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

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



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	46				46
1	97	93	89	86	89	86	82	80	72	69	67	59	57	56	47	46	45				39	
2	89	82	76	71	81	75	70	66	63	60	56	52	49	47	42	40	38				34	
3	81	72	65	60	74	67	61	56	56	52	48	46	43	40	37	35	33				29	
4	75	64	56	51	68	59	53	47	50	45	41	42	38	35	34	31	29				25	
5	69	57	49	44	63	53	46	41	45	40	36	37	34	30	30	28	25				22	
6	63	51	44	38	58	48	41	36	41	35	31	34	30	27	28	25	22				20	
7	58	47	39	33	54	43	36	31	37	31	28	31	27	24	25	22	20				17	
8	54	42	35	30	50	39	33	28	34	28	25	28	24	21	23	20	18				16	
9	51	39	31	26	46	36	29	25	31	26	22	26	22	19	22	19	16				14	
10	47	35	28	24	43	33	27	22	28	23	20	24	20	17	20	17	15				13	

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7796	7796	7796	7796
5°	9043	7819	6912	7819
10°	10698	7785	6169	7785
15°	12357	7713	5300	7713
20°	13759	7614	4793	7614
25°	14203	7517	4450	7517
30°	12433	7399	4243	7399
35°	9678	7224	4119	7224
40°	7258	7024	4051	7024
45°	5730	6703	4015	6703
50°	4838	6332	3900	6332
55°	4217	5925	3690	5925
60°	3794	5503	3266	5503
65°	3345	5047	2810	5047
70°	3012	4574	2535	4574
75°	2523	4055	2162	4055
80°	2134	3454	2027	3454
85°	1806	2705	1806	2705



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.6	1.8
10°-20°	282.2	5.3
20°-30°	441.5	8.3
30°-40°	490.8	9.2
40°-50°	435.4	8.2
50°-60°	339.3	6.4
60°-70°	222.1	4.2
70°-80°	109.2	2.0
80°-90°	29.1	0.5
90°-100°	287.5	5.4
100°-110°	598.3	11.2
110°-120°	535.9	10.0
120°-130°	450.8	8.4
130°-140°	375.9	7.0
140°-150°	287.1	5.4
150°-160°	201.8	3.8
160°-170°	118.7	2.2
170°-180°	38.6	0.7
0°-30°	817.3	15.3
0°-40°	1308.0	24.5
0°-60°	2082.7	39.0
0°-90°	2443.3	45.8
90°-120°	1421.6	26.6
90°-150°	2535.4	47.5
90°-180°	2895.0	54.2
0°-180°	5337.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	966	966	966	966	966	
5°	1116	965	853	965	1116	113
15°	1478	923	634	923	1478	420
25°	1594	844	500	844	1594	707
35°	982	733	418	733	982	616
45°	502	587	352	587	502	397
55°	300	421	262	421	300	273
65°	175	264	147	264	175	176
75°	81	130	69	130	81	89
85°	20	29	20	29	20	22
90°	16	1	16	1	16	14
95°	191	26	191	26	191	296
105°	1100	92	1100	92	1100	1088
115°	1056	161	1056	161	1056	1049
125°	843	224	843	224	843	766
135°	754	267	754	267	754	582
145°	615	307	615	307	615	390
155°	515	350	515	350	515	240
165°	450	381	450	381	450	129
175°	405	397	405	397	405	39
180°	398	398	398	398	398	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7
2.5°	1018.6	1021.4	1018.6	1018.3	1015.2	1014.3	1013.0	1009.0	1001.5	997.1	998.1
5°	1115.9	1125.6	1120.2	1119.4	1110.8	1102.3	1096.8	1084.4	1071.1	1062.2	1054.8
7.5°	1228.4	1234.0	1230.6	1225.1	1211.3	1203.4	1190.8	1174.4	1150.7	1132.5	1116.0
10°	1305.0	1309.6	1308.1	1298.0	1287.9	1267.2	1255.6	1232.6	1202.6	1178.9	1156.7
12.5°	1380.3	1385.3	1371.6	1372.1	1352.9	1336.6	1318.1	1289.3	1254.6	1224.0	1196.3
15°	1478.5	1472.3	1472.3	1464.5	1443.1	1420.5	1401.5	1371.1	1327.5	1291.0	1252.5
17.5°	1555.4	1557.6	1554.4	1536.0	1519.2	1495.9	1460.9	1425.5	1385.0	1335.9	1296.6
20°	1601.5	1601.5	1598.0	1585.5	1563.7	1538.8	1501.1	1462.6	1411.2	1361.8	1317.4
22.5°	1620.1	1621.4	1617.3	1607.0	1587.4	1563.1	1531.0	1491.8	1438.9	1383.3	1328.3
25°	1594.5	1601.8	1602.6	1599.9	1594.1	1579.3	1551.7	1511.6	1464.1	1403.8	1344.7
27.5°	1463.9	1473.2	1481.4	1494.8	1512.7	1522.1	1523.3	1502.9	1461.5	1403.5	1344.0
30°	1333.8	1341.5	1366.8	1399.9	1425.6	1448.9	1469.2	1474.6	1451.3	1399.1	1336.5
32.5°	1189.3	1199.9	1225.2	1260.8	1303.6	1343.1	1388.6	1411.7	1411.1	1379.8	1321.9
35°	982.0	989.8	1013.2	1050.5	1101.9	1160.6	1232.6	1288.6	1326.8	1324.0	1288.6
37.5°	792.0	800.8	824.4	855.4	905.2	977.9	1047.6	1124.8	1195.3	1234.9	1223.0
40°	688.7	689.1	712.0	743.9	790.6	854.0	929.9	1015.5	1094.1	1158.3	1170.7
42.5°	607.1	607.2	622.4	656.8	690.4	750.1	822.5	907.5	999.5	1073.6	1106.6
45°	501.9	505.4	517.9	538.5	564.9	615.5	673.5	752.5	855.6	943.5	998.4
47.5°	425.0	430.2	438.1	454.9	476.0	509.7	557.6	628.6	712.5	809.2	887.3
50°	385.2	386.0	396.1	405.4	423.7	450.6	492.6	551.7	628.8	721.7	808.5
52.5°	351.0	350.8	356.9	368.7	383.6	404.5	438.4	492.3	560.6	643.9	733.5
55°	299.6	301.5	306.2	315.5	326.8	341.6	368.5	408.9	462.6	533.8	615.1
57.5°	260.5	261.5	265.2	269.2	279.5	290.3	310.4	338.5	383.8	442.1	517.9
60°	235.0	235.4	236.6	242.4	250.6	260.7	274.3	298.0	336.2	389.5	449.4
62.5°	210.1	210.8	212.6	216.9	223.2	230.2	244.4	263.5	295.1	340.6	394.6
65°	175.1	175.5	178.2	179.8	184.8	191.0	201.5	214.4	236.2	274.3	315.2
67.5°	146.3	146.3	146.4	148.6	152.1	156.2	162.5	172.8	189.2	212.6	248.6
70°	127.6	127.6	128.4	129.6	131.5	135.0	138.5	146.3	158.4	177.4	205.0
72.5°	110.2	110.5	111.3	111.5	112.5	115.4	118.0	122.9	131.9	146.3	168.6
75°	80.9	82.1	84.0	85.6	87.5	87.2	89.9	93.0	95.7	104.3	117.1
77.5°	60.2	59.6	59.8	61.2	61.4	61.8	63.7	66.1	68.2	72.2	76.8
80°	45.9	45.9	47.1	47.5	47.1	47.5	49.4	50.6	51.4	52.9	57.2
82.5°	34.7	35.3	34.9	35.3	35.6	36.0	37.6	37.8	38.6	39.2	41.0
85°	19.5	19.8	20.2	19.5	19.5	19.5	20.2	20.6	21.4	21.0	21.8
87.5°	10.1	9.8	10.3	10.1	10.3	10.0	10.1	10.6	9.8	10.3	10.0
90°	16.4	16.4	17.2	16.4	15.6	15.6	14.9	14.1	13.3	14.1	12.5
92.5°	60.2	60.2	62.9	67.1	76.3	92.0	115.6	153.6	206.6	248.0	217.1
95°	190.8	201.0	215.0	239.3	277.6	353.4	458.2	579.4	655.3	637.3	480.9
97.5°	510.0	526.2	549.7	596.8	652.9	734.5	811.0	856.0	823.2	671.2	450.1
100°	717.0	723.3	746.7	794.4	862.5	920.3	958.6	943.0	828.8	628.7	408.2
102.5°	897.2	902.2	926.9	961.5	1003.2	1027.3	1016.2	938.6	781.9	575.5	380.0
105°	1100.2	1104.9	1115.8	1122.1	1120.5	1088.4	1011.0	875.8	696.7	512.9	355.8
107.5°	1175.5	1173.5	1165.7	1147.9	1109.2	1039.5	930.5	786.5	627.9	477.9	351.4
110°	1176.8	1169.8	1155.7	1122.8	1067.3	981.3	867.9	732.7	593.5	466.0	352.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1139.9	1128.5	1108.8	1069.0	1006.0	920.0	812.9	693.3	574.1	460.4	356.4
115°	1056.4	1050.1	1025.1	978.2	916.4	841.3	749.9	653.7	555.9	457.4	363.6
117.5°	971.8	966.9	941.6	902.2	849.5	785.8	713.9	634.3	547.8	456.6	371.3
120°	924.2	915.6	895.3	860.9	816.3	760.8	698.3	625.5	543.4	456.6	376.9
122.5°	886.7	878.1	860.9	831.5	793.8	745.2	688.2	618.0	538.4	456.0	382.5
125°	842.9	838.2	823.4	800.7	769.4	726.4	672.5	605.2	530.1	455.1	391.0
127.5°	817.3	812.6	800.1	779.9	748.5	707.6	653.8	589.6	519.0	453.4	397.7
130°	802.3	797.6	785.1	765.5	733.4	692.0	638.8	577.1	512.2	452.7	402.7
132.5°	785.4	780.7	768.8	746.7	715.3	673.9	621.9	563.9	505.9	452.1	407.1
135°	753.8	749.1	736.6	714.7	683.4	644.3	596.6	545.8	496.5	451.2	413.6
137.5°	714.7	709.0	698.7	677.1	647.9	612.6	572.4	529.4	488.4	451.0	417.5
140°	686.5	680.3	669.3	652.1	624.8	591.9	556.7	520.0	484.0	450.4	420.7
142.5°	656.5	652.1	642.4	626.5	602.2	573.8	543.6	511.2	480.3	450.4	423.2
145°	615.4	611.5	603.6	590.4	570.8	548.9	525.5	498.9	473.8	448.8	424.6
147.5°	578.9	577.5	571.6	560.2	545.8	528.6	509.8	488.7	468.1	446.0	425.4
150°	558.3	557.5	552.8	542.7	530.1	516.1	500.4	482.4	463.7	444.1	425.4
152.5°	539.5	538.7	535.9	527.6	517.0	505.4	491.0	475.6	458.7	441.0	424.1
155°	515.3	515.3	512.9	506.7	498.9	489.5	477.8	465.2	451.2	436.3	422.2
157.5°	494.0	494.0	492.6	487.9	482.0	474.5	464.6	454.1	443.5	431.5	420.2
160°	480.9	480.9	480.1	475.4	470.7	464.5	455.9	447.3	437.9	427.7	418.3
162.5°	468.4	469.0	468.2	463.5	460.1	454.5	447.7	440.4	432.9	424.0	416.5
165°	449.6	450.4	451.2	448.0	444.9	441.0	435.5	430.8	424.6	418.3	412.9
167.5°	434.7	435.4	435.5	433.5	431.9	429.6	425.2	421.6	417.1	412.7	409.1
170°	425.4	425.4	426.1	425.4	423.8	421.5	418.3	416.0	412.1	408.9	406.6
172.5°	416.0	417.2	418.0	417.2	416.3	414.6	412.7	411.0	407.7	405.2	404.1
175°	405.0	406.6	408.2	406.6	406.6	406.6	405.0	404.3	402.7	401.1	401.1
177.5°	398.6	399.9	401.1	400.5	401.1	400.5	400.5	399.9	399.2	398.6	398.6
180°	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7
2.5°	995.0	990.6	988.4	983.4	977.5	974.4	971.6	967.6	962.3	956.7	952.6
5°	1045.5	1036.1	1024.4	1010.4	998.0	985.9	975.4	964.9	952.9	940.4	928.0
7.5°	1097.3	1078.9	1059.1	1036.1	1013.8	993.5	974.8	956.9	936.7	918.5	902.0
10°	1133.4	1108.5	1080.9	1051.7	1022.5	997.2	972.3	949.7	924.8	902.7	884.0
12.5°	1162.7	1133.4	1100.2	1063.8	1028.7	998.1	969.5	940.1	911.8	887.7	862.8
15°	1211.2	1171.1	1126.4	1082.8	1037.3	995.7	957.1	922.9	890.6	856.8	833.0
17.5°	1244.6	1197.0	1142.7	1090.3	1036.5	987.4	943.0	902.2	864.9	830.4	802.1
20°	1264.5	1212.0	1151.7	1092.1	1031.8	979.3	931.5	886.3	847.8	810.5	781.3
22.5°	1275.7	1217.6	1151.7	1089.3	1026.9	970.0	917.5	870.5	828.5	791.2	758.9
25°	1279.3	1217.0	1149.7	1078.1	1009.7	949.4	894.9	843.9	797.2	759.9	725.6
27.5°	1274.3	1201.0	1132.1	1058.6	988.0	924.4	867.2	813.6	766.9	726.8	691.7
30°	1266.8	1188.3	1114.3	1038.1	966.5	905.4	845.1	793.7	745.1	703.5	668.1
32.5°	1250.7	1172.7	1093.2	1015.0	942.5	879.6	822.4	770.7	723.0	680.4	642.8
35°	1218.6	1139.6	1053.2	973.1	901.9	836.5	782.8	733.0	687.5	642.0	602.3
37.5°	1176.3	1095.7	1009.7	922.0	850.7	789.0	739.7	693.0	648.5	607.0	563.0
40°	1136.5	1063.0	974.3	887.1	814.0	754.4	708.9	666.5	621.8	580.5	536.5
42.5°	1088.3	1025.6	936.0	848.5	776.3	718.9	676.5	635.1	594.4	554.4	508.5
45°	1007.7	960.3	876.2	792.2	719.4	662.6	623.7	587.1	551.3	513.2	470.0
47.5°	915.4	883.3	810.8	724.7	657.4	606.3	568.7	538.8	508.5	470.4	432.5
50°	851.3	830.7	760.7	682.1	617.9	570.8	532.3	504.2	479.0	442.4	408.5
52.5°	782.8	771.9	712.7	637.5	575.5	529.4	496.5	471.3	445.7	415.3	383.6
55°	678.6	684.4	634.2	569.2	510.9	472.0	442.0	421.0	399.2	373.5	349.0
57.5°	571.9	593.3	559.6	502.5	447.8	411.9	389.3	371.6	353.4	332.0	311.1
60°	508.1	526.0	507.0	456.8	408.9	375.5	354.5	340.8	322.5	303.1	287.1
62.5°	445.9	465.0	453.7	413.2	368.8	340.0	321.5	308.8	295.2	278.2	261.6
65°	367.7	380.1	374.7	346.7	315.2	290.6	273.5	264.2	251.7	239.3	224.5
67.5°	281.6	305.7	302.5	287.6	260.4	241.2	230.0	221.8	210.4	201.2	191.1
70°	231.5	253.7	253.3	241.2	226.4	208.5	200.8	193.8	183.6	174.7	166.5
72.5°	189.5	209.8	212.8	203.6	193.5	179.9	172.4	167.6	157.8	151.7	145.0
75°	132.7	147.5	151.4	151.4	146.7	139.7	133.1	130.0	122.9	117.5	113.6
77.5°	87.0	96.3	102.4	103.8	104.5	102.2	96.7	94.5	89.2	87.2	83.5
80°	61.5	67.7	74.7	77.0	79.0	78.2	75.9	74.3	69.3	67.3	65.8
82.5°	42.5	45.9	51.7	56.8	56.3	58.3	56.3	55.0	51.2	50.5	48.9
85°	22.2	22.6	23.3	26.8	28.8	29.6	30.0	29.2	28.0	28.0	25.3
87.5°	9.7	9.3	9.0	9.0	9.2	10.3	10.7	10.7	10.1	9.7	8.9
90°	10.9	10.9	6.3	6.3	5.5	4.7	2.3	0.8	2.3	4.7	5.5
92.5°	157.9	97.3	57.5	41.3	29.9	20.3	13.0	8.9	13.0	20.3	29.9
95°	294.0	165.8	97.7	64.9	46.1	36.0	28.1	25.8	28.1	36.0	46.1
97.5°	264.3	158.4	106.0	78.5	62.4	53.0	46.3	46.3	46.3	53.0	62.4
100°	248.7	160.3	114.2	89.1	74.3	64.9	59.4	59.4	59.4	64.9	74.3
102.5°	244.3	166.5	124.8	101.0	86.8	78.0	73.2	71.9	73.2	78.0	86.8
105°	246.3	181.4	143.9	121.2	107.1	97.7	93.8	91.5	93.8	97.7	107.1
107.5°	257.9	198.8	164.4	142.0	128.5	118.5	114.6	113.1	114.6	118.5	128.5
110°	266.6	211.9	177.5	156.4	142.3	132.9	129.0	127.5	129.0	132.9	142.3



TEST NUMBER: P332909

CATALOG NUMBER: SA4XXRDIP-C575D810U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	276.0	224.4	191.3	170.1	156.1	147.3	142.8	141.2	142.8	147.3	156.1
115°	290.9	244.0	212.7	191.6	176.7	168.9	163.4	161.1	163.4	168.9	176.7
117.5°	306.0	262.9	233.2	211.3	197.4	188.8	183.9	181.7	183.9	188.8	197.4
120°	316.7	276.0	246.3	224.4	211.1	202.5	197.0	195.5	197.0	202.5	211.1
122.5°	326.7	288.5	258.8	237.5	223.0	215.0	209.6	208.0	209.6	215.0	223.0
125°	341.7	305.7	277.6	255.7	240.8	232.2	227.5	224.4	227.5	232.2	240.8
127.5°	354.7	321.7	294.5	272.4	256.9	247.1	241.5	239.0	241.5	247.1	256.9
130°	362.8	332.3	305.7	283.1	268.2	256.5	250.2	247.1	250.2	256.5	268.2
132.5°	370.9	341.1	314.5	293.1	277.0	265.9	257.7	255.2	257.7	265.9	277.0
135°	381.6	353.4	327.6	307.3	290.9	277.6	269.8	266.6	269.8	277.6	290.9
137.5°	389.1	362.8	338.7	319.3	302.3	289.6	281.0	278.1	281.0	289.6	302.3
140°	394.1	369.1	345.6	326.8	310.4	297.1	288.5	286.2	288.5	297.1	310.4
142.5°	397.8	374.7	351.9	333.7	317.9	305.3	297.3	294.9	297.3	305.3	317.9
145°	401.9	380.8	360.5	343.3	328.4	317.5	309.6	307.3	309.6	317.5	328.4
147.5°	405.5	387.1	368.0	352.5	340.1	328.9	322.0	321.2	322.0	328.9	340.1
150°	407.4	390.2	373.0	358.1	346.4	337.0	330.8	330.0	330.8	337.0	346.4
152.5°	408.6	392.7	377.4	363.8	353.3	344.5	338.3	338.1	338.3	344.5	353.3
155°	409.7	396.4	383.1	371.4	362.8	355.0	350.3	349.5	350.3	355.0	362.8
157.5°	409.7	399.1	387.8	378.6	371.1	365.0	360.6	360.6	360.6	365.0	371.1
160°	409.7	400.3	391.0	382.4	376.1	370.6	367.5	367.5	367.5	370.6	376.1
162.5°	409.7	401.6	392.8	386.1	380.5	375.6	373.1	373.8	373.1	375.6	380.5
165°	408.2	401.9	394.9	390.2	386.3	382.4	380.8	380.8	380.8	382.4	386.3
167.5°	406.3	401.8	396.6	393.0	390.8	387.8	387.1	387.8	387.1	387.8	390.8
170°	405.0	401.1	397.2	394.9	393.3	391.0	390.2	391.0	390.2	391.0	393.3
172.5°	403.8	400.5	397.8	396.1	395.2	393.5	393.3	394.1	393.3	393.5	395.2
175°	401.9	399.6	398.0	398.0	397.2	396.4	396.4	397.2	396.4	396.4	397.2
177.5°	399.9	398.6	398.0	398.0	398.0	397.4	398.0	398.6	398.0	397.4	398.0
180°	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0



TEST NUMBER: P332909

CATALOG NUMBER: SA4XXRDIP-C575D810U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7
2.5°	948.3	945.2	941.1	936.4	930.8	925.9	923.7	925.5	926.5	924.0	923.7
5°	919.4	909.7	901.9	890.2	880.9	873.1	867.6	865.3	866.1	859.9	858.3
7.5°	886.9	875.4	862.7	848.8	835.9	824.5	818.5	815.2	808.6	805.8	801.0
10°	866.1	850.5	838.1	821.7	807.0	793.3	786.7	781.3	774.7	771.5	764.9
12.5°	844.6	826.6	812.9	795.9	780.8	764.4	758.1	748.0	737.6	731.1	722.6
15°	814.3	792.6	775.8	755.6	737.7	719.0	702.3	683.6	676.6	661.8	653.3
17.5°	778.9	756.8	736.1	709.0	681.4	658.2	640.3	622.5	611.7	602.3	597.9
20°	755.6	735.4	706.6	675.1	644.3	618.6	604.2	592.6	580.9	574.3	569.6
22.5°	733.5	707.7	674.2	640.2	609.5	589.4	577.2	565.2	555.7	549.4	543.2
25°	696.5	662.6	627.2	588.3	567.3	549.8	536.5	526.8	521.0	512.8	509.7
27.5°	658.4	617.4	578.3	552.2	530.3	514.3	502.8	495.5	488.1	482.8	478.8
30°	629.1	587.5	552.5	527.6	505.4	492.2	482.8	474.3	468.5	464.2	461.1
32.5°	600.2	558.6	529.1	502.4	484.9	472.0	462.0	455.6	451.0	445.5	443.6
35°	558.3	521.4	495.7	471.6	453.7	442.0	434.2	427.6	423.7	422.2	421.0
37.5°	518.1	487.8	460.2	440.4	424.5	415.3	406.1	402.9	400.2	397.4	398.7
40°	492.6	464.2	439.7	418.7	405.8	395.7	390.2	386.4	384.0	384.0	384.0
42.5°	470.5	442.7	418.8	400.0	387.1	378.6	372.5	369.2	368.5	368.1	370.0
45°	436.2	410.5	386.4	370.8	359.9	351.3	347.8	345.1	345.1	346.7	347.1
47.5°	402.2	378.1	358.7	341.3	331.3	326.0	322.9	321.5	321.7	323.2	325.0
50°	381.3	357.6	338.5	322.9	313.6	308.5	305.8	305.0	305.8	305.8	308.5
52.5°	358.6	337.3	318.6	305.5	294.9	290.2	288.7	287.6	288.1	289.3	290.5
55°	325.3	306.2	288.3	275.9	268.1	265.0	261.5	261.9	261.1	261.9	261.9
57.5°	291.9	274.8	258.1	248.2	241.4	236.9	233.1	234.1	233.0	232.8	232.2
60°	270.4	251.7	238.5	229.6	221.8	217.9	214.4	215.2	214.0	213.2	211.7
62.5°	247.1	231.5	218.9	210.3	204.0	199.5	196.0	195.2	192.5	189.9	186.4
65°	213.2	200.4	189.1	180.9	175.1	171.6	168.9	166.5	160.7	154.5	151.4
67.5°	180.3	171.0	160.5	153.6	148.9	144.3	139.1	135.1	129.6	126.2	124.3
70°	159.1	150.2	141.2	134.6	129.6	125.3	119.4	116.7	112.8	111.3	109.3
72.5°	138.9	130.6	122.2	116.3	110.9	107.5	103.0	100.2	98.5	97.9	95.9
75°	108.2	101.6	95.3	89.9	85.6	83.3	81.3	79.4	78.6	75.1	73.1
77.5°	78.9	74.5	70.7	66.8	63.7	62.2	58.4	56.2	54.9	53.2	52.8
80°	61.5	58.4	54.5	52.1	47.9	46.3	44.7	44.4	44.0	43.6	43.2
82.5°	46.2	43.1	39.2	37.8	36.7	35.7	34.8	34.4	34.0	34.2	34.2
85°	23.3	21.8	21.8	21.4	21.0	20.6	20.2	20.2	19.8	20.2	19.8
87.5°	9.0	8.7	9.7	9.0	9.7	10.0	9.5	9.7	10.1	9.7	9.7
90°	6.3	6.3	10.9	10.9	12.5	14.1	13.3	14.1	14.9	15.6	15.6
92.5°	41.3	57.5	97.3	157.9	217.1	248.0	206.6	153.6	115.6	92.0	76.3
95°	64.9	97.7	165.8	294.0	480.9	637.3	655.3	579.4	458.2	353.4	277.6
97.5°	78.5	106.0	158.4	264.3	450.1	671.2	823.2	856.0	811.0	734.5	652.9
100°	89.1	114.2	160.3	248.7	408.2	628.7	828.8	943.0	958.6	920.3	862.5
102.5°	101.0	124.8	166.5	244.3	380.0	575.5	781.9	938.6	1016.2	1027.3	1003.2
105°	121.2	143.9	181.4	246.3	355.8	512.9	696.7	875.8	1011.0	1088.4	1120.5
107.5°	142.0	164.4	198.8	257.9	351.4	477.9	627.9	786.5	930.5	1039.5	1109.2
110°	156.4	177.5	211.9	266.6	352.6	466.0	593.5	732.7	867.9	981.3	1067.3



TEST NUMBER: P332909

CATALOG NUMBER: SA4XXRDIP-C575D810U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	170.1	191.3	224.4	276.0	356.4	460.4	574.1	693.3	812.9	920.0	1006.0
115°	191.6	212.7	244.0	290.9	363.6	457.4	555.9	653.7	749.9	841.3	916.4
117.5°	211.3	233.2	262.9	306.0	371.3	456.6	547.8	634.3	713.9	785.8	849.5
120°	224.4	246.3	276.0	316.7	376.9	456.6	543.4	625.5	698.3	760.8	816.3
122.5°	237.5	258.8	288.5	326.7	382.5	456.0	538.4	618.0	688.2	745.2	793.8
125°	255.7	277.6	305.7	341.7	391.0	455.1	530.1	605.2	672.5	726.4	769.4
127.5°	272.4	294.5	321.7	354.7	397.7	453.4	519.0	589.6	653.8	707.6	748.5
130°	283.1	305.7	332.3	362.8	402.7	452.7	512.2	577.1	638.8	692.0	733.4
132.5°	293.1	314.5	341.1	370.9	407.1	452.1	505.9	563.9	621.9	673.9	715.3
135°	307.3	327.6	353.4	381.6	413.6	451.2	496.5	545.8	596.6	644.3	683.4
137.5°	319.3	338.7	362.8	389.1	417.5	451.0	488.4	529.4	572.4	612.6	647.9
140°	326.8	345.6	369.1	394.1	420.7	450.4	484.0	520.0	556.7	591.9	624.8
142.5°	333.7	351.9	374.7	397.8	423.2	450.4	480.3	511.2	543.6	573.8	602.2
145°	343.3	360.5	380.8	401.9	424.6	448.8	473.8	498.9	525.5	548.9	570.8
147.5°	352.5	368.0	387.1	405.5	425.4	446.0	468.1	488.7	509.8	528.6	545.8
150°	358.1	373.0	390.2	407.4	425.4	444.1	463.7	482.4	500.4	516.1	530.1
152.5°	363.8	377.4	392.7	408.6	424.1	441.0	458.7	475.6	491.0	505.4	517.0
155°	371.4	383.1	396.4	409.7	422.2	436.3	451.2	465.2	477.8	489.5	498.9
157.5°	378.6	387.8	399.1	409.7	420.2	431.5	443.5	454.1	464.6	474.5	482.0
160°	382.4	391.0	400.3	409.7	418.3	427.7	437.9	447.3	455.9	464.5	470.7
162.5°	386.1	392.8	401.6	409.7	416.5	424.0	432.9	440.4	447.7	454.5	460.1
165°	390.2	394.9	401.9	408.2	412.9	418.3	424.6	430.8	435.5	441.0	444.9
167.5°	393.0	396.6	401.8	406.3	409.1	412.7	417.1	421.6	425.2	429.6	431.9
170°	394.9	397.2	401.1	405.0	406.6	408.9	412.1	416.0	418.3	421.5	423.8
172.5°	396.1	397.8	400.5	403.8	404.1	405.2	407.7	411.0	412.7	414.6	416.3
175°	398.0	398.0	399.6	401.9	401.1	401.1	402.7	404.3	405.0	406.6	406.6
177.5°	398.0	398.0	398.6	399.9	398.6	398.6	399.2	399.9	400.5	400.5	401.1
180°	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0



TEST NUMBER: P332909

CATALOG NUMBER: SA4XXRDIP-C575D810U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7
2.5°	921.8	922.4	920.3	919.6	920.3	922.4	921.8	923.7	924.0	926.5	925.5
5°	855.2	854.4	852.5	852.9	852.5	854.4	855.2	858.3	859.9	866.1	865.3
7.5°	798.2	795.2	796.1	792.9	796.1	795.2	798.2	801.0	805.8	808.6	815.2
10°	763.4	759.1	755.6	752.5	755.6	759.1	763.4	764.9	771.5	774.7	781.3
12.5°	715.8	712.1	707.3	708.3	707.3	712.1	715.8	722.6	731.1	737.6	748.0
15°	648.2	642.4	633.0	634.2	633.0	642.4	648.2	653.3	661.8	676.6	683.6
17.5°	591.0	591.1	586.8	587.8	586.8	591.1	591.0	597.9	602.3	611.7	622.5
20°	561.4	558.7	559.1	557.9	559.1	558.7	561.4	569.6	574.3	580.9	592.6
22.5°	540.9	537.6	534.8	532.4	534.8	537.6	540.9	543.2	549.4	555.7	565.2
25°	506.2	503.9	500.4	499.6	500.4	503.9	506.2	509.7	512.8	521.0	526.8
27.5°	475.7	475.2	473.8	472.0	473.8	475.2	475.7	478.8	482.8	488.1	495.5
30°	457.9	457.2	456.4	455.2	456.4	457.2	457.9	461.1	464.2	468.5	474.3
32.5°	442.1	441.6	440.8	440.9	440.8	441.6	442.1	443.6	445.5	451.0	455.6
35°	419.4	419.0	418.3	417.9	418.3	419.0	419.4	421.0	422.2	423.7	427.6
37.5°	398.3	399.3	398.8	398.7	398.8	399.3	398.3	398.7	397.4	400.2	402.9
40°	383.6	384.0	384.8	384.4	384.8	384.0	383.6	384.0	384.0	384.0	386.4
42.5°	371.5	371.6	372.7	371.3	372.7	371.6	371.5	370.0	368.1	368.5	369.2
45°	349.8	352.1	351.7	351.7	351.7	352.1	349.8	347.1	346.7	345.1	345.1
47.5°	326.0	328.1	328.6	328.5	328.6	328.1	326.0	325.0	323.2	321.7	321.5
50°	310.5	309.7	310.9	310.5	310.9	309.7	310.5	308.5	305.8	305.8	305.0
52.5°	291.5	291.7	291.6	291.2	291.6	291.7	291.5	290.5	289.3	288.1	287.6
55°	262.2	262.6	261.9	262.2	261.9	262.6	262.2	261.9	261.9	261.1	261.9
57.5°	230.5	228.6	229.4	228.5	229.4	228.6	230.5	232.2	232.8	233.0	234.1
60°	207.8	204.7	203.9	202.3	203.9	204.7	207.8	211.7	213.2	214.0	215.2
62.5°	182.2	180.1	177.4	178.7	177.4	180.1	182.2	186.4	189.9	192.5	195.2
65°	148.2	146.7	145.5	147.1	145.5	146.7	148.2	151.4	154.5	160.7	166.5
67.5°	122.7	121.9	121.9	121.1	121.9	121.9	122.7	124.3	126.2	129.6	135.1
70°	109.3	108.2	108.2	107.4	108.2	108.2	109.3	109.3	111.3	112.8	116.7
72.5°	95.6	94.5	94.8	94.3	94.8	94.5	95.6	95.9	97.9	98.5	100.2
75°	70.8	68.9	68.9	69.3	68.9	68.9	70.8	73.1	75.1	78.6	79.4
77.5°	52.8	52.4	53.0	52.3	53.0	52.4	52.8	52.8	53.2	54.9	56.2
80°	43.2	42.8	42.4	43.6	42.4	42.8	43.2	43.2	43.6	44.0	44.4
82.5°	33.5	33.5	33.4	34.9	33.4	33.5	33.5	34.2	34.2	34.0	34.4
85°	20.2	19.5	20.2	19.5	20.2	19.5	20.2	19.8	20.2	19.8	20.2
87.5°	10.4	10.3	9.8	10.1	9.8	10.3	10.4	9.7	9.7	10.1	9.7
90°	16.4	17.2	16.4	16.4	16.4	17.2	16.4	15.6	15.6	14.9	14.1
92.5°	67.1	62.9	60.2	60.2	60.2	62.9	67.1	76.3	92.0	115.6	153.6
95°	239.3	215.0	201.0	190.8	201.0	215.0	239.3	277.6	353.4	458.2	579.4
97.5°	596.8	549.7	526.2	510.0	526.2	549.7	596.8	652.9	734.5	811.0	856.0
100°	794.4	746.7	723.3	717.0	723.3	746.7	794.4	862.5	920.3	958.6	943.0
102.5°	961.5	926.9	902.2	897.2	902.2	926.9	961.5	1003.2	1027.3	1016.2	938.6
105°	1122.1	1115.8	1104.9	1100.2	1104.9	1115.8	1122.1	1120.5	1088.4	1011.0	875.8
107.5°	1147.9	1165.7	1173.5	1175.5	1173.5	1165.7	1147.9	1109.2	1039.5	930.5	786.5
110°	1122.8	1155.7	1169.8	1176.8	1169.8	1155.7	1122.8	1067.3	981.3	867.9	732.7



TEST NUMBER: P332909

CATALOG NUMBER: SA4XXRDIP-C575D810U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1069.0	1108.8	1128.5	1139.9	1128.5	1108.8	1069.0	1006.0	920.0	812.9	693.3
115°	978.2	1025.1	1050.1	1056.4	1050.1	1025.1	978.2	916.4	841.3	749.9	653.7
117.5°	902.2	941.6	966.9	971.8	966.9	941.6	902.2	849.5	785.8	713.9	634.3
120°	860.9	895.3	915.6	924.2	915.6	895.3	860.9	816.3	760.8	698.3	625.5
122.5°	831.5	860.9	878.1	886.7	878.1	860.9	831.5	793.8	745.2	688.2	618.0
125°	800.7	823.4	838.2	842.9	838.2	823.4	800.7	769.4	726.4	672.5	605.2
127.5°	779.9	800.1	812.6	817.3	812.6	800.1	779.9	748.5	707.6	653.8	589.6
130°	765.5	785.1	797.6	802.3	797.6	785.1	765.5	733.4	692.0	638.8	577.1
132.5°	746.7	768.8	780.7	785.4	780.7	768.8	746.7	715.3	673.9	621.9	563.9
135°	714.7	736.6	749.1	753.8	749.1	736.6	714.7	683.4	644.3	596.6	545.8
137.5°	677.1	698.7	709.0	714.7	709.0	698.7	677.1	647.9	612.6	572.4	529.4
140°	652.1	669.3	680.3	686.5	680.3	669.3	652.1	624.8	591.9	556.7	520.0
142.5°	626.5	642.4	652.1	656.5	652.1	642.4	626.5	602.2	573.8	543.6	511.2
145°	590.4	603.6	611.5	615.4	611.5	603.6	590.4	570.8	548.9	525.5	498.9
147.5°	560.2	571.6	577.5	578.9	577.5	571.6	560.2	545.8	528.6	509.8	488.7
150°	542.7	552.8	557.5	558.3	557.5	552.8	542.7	530.1	516.1	500.4	482.4
152.5°	527.6	535.9	538.7	539.5	538.7	535.9	527.6	517.0	505.4	491.0	475.6
155°	506.7	512.9	515.3	515.3	515.3	512.9	506.7	498.9	489.5	477.8	465.2
157.5°	487.9	492.6	494.0	494.0	494.0	492.6	487.9	482.0	474.5	464.6	454.1
160°	475.4	480.1	480.9	480.9	480.9	480.1	475.4	470.7	464.5	455.9	447.3
162.5°	463.5	468.2	469.0	468.4	469.0	468.2	463.5	460.1	454.5	447.7	440.4
165°	448.0	451.2	450.4	449.6	450.4	451.2	448.0	444.9	441.0	435.5	430.8
167.5°	433.5	435.5	435.4	434.7	435.4	435.5	433.5	431.9	429.6	425.2	421.6
170°	425.4	426.1	425.4	425.4	425.4	426.1	425.4	423.8	421.5	418.3	416.0
172.5°	417.2	418.0	417.2	416.0	417.2	418.0	417.2	416.3	414.6	412.7	411.0
175°	406.6	408.2	406.6	405.0	406.6	408.2	406.6	406.6	406.6	405.0	404.3
177.5°	400.5	401.1	399.9	398.6	399.9	401.1	400.5	401.1	400.5	400.5	399.9
180°	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0



TEST NUMBER: P332909

CATALOG NUMBER: SA4XXRDIP-C575D810U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7
2.5°	923.7	925.9	930.8	936.4	941.1	945.2	948.3	952.6	956.7	962.3	967.6
5°	867.6	873.1	880.9	890.2	901.9	909.7	919.4	928.0	940.4	952.9	964.9
7.5°	818.5	824.5	835.9	848.8	862.7	875.4	886.9	902.0	918.5	936.7	956.9
10°	786.7	793.3	807.0	821.7	838.1	850.5	866.1	884.0	902.7	924.8	949.7
12.5°	758.1	764.4	780.8	795.9	812.9	826.6	844.6	862.8	887.7	911.8	940.1
15°	702.3	719.0	737.7	755.6	775.8	792.6	814.3	833.0	856.8	890.6	922.9
17.5°	640.3	658.2	681.4	709.0	736.1	756.8	778.9	802.1	830.4	864.9	902.2
20°	604.2	618.6	644.3	675.1	706.6	735.4	755.6	781.3	810.5	847.8	886.3
22.5°	577.2	589.4	609.5	640.2	674.2	707.7	733.5	758.9	791.2	828.5	870.5
25°	536.5	549.8	567.3	588.3	627.2	662.6	696.5	725.6	759.9	797.2	843.9
27.5°	502.8	514.3	530.3	552.2	578.3	617.4	658.4	691.7	726.8	766.9	813.6
30°	482.8	492.2	505.4	527.6	552.5	587.5	629.1	668.1	703.5	745.1	793.7
32.5°	462.0	472.0	484.9	502.4	529.1	558.6	600.2	642.8	680.4	723.0	770.7
35°	434.2	442.0	453.7	471.6	495.7	521.4	558.3	602.3	642.0	687.5	733.0
37.5°	406.1	415.3	424.5	440.4	460.2	487.8	518.1	563.0	607.0	648.5	693.0
40°	390.2	395.7	405.8	418.7	439.7	464.2	492.6	536.5	580.5	621.8	666.5
42.5°	372.5	378.6	387.1	400.0	418.8	442.7	470.5	508.5	554.4	594.4	635.1
45°	347.8	351.3	359.9	370.8	386.4	410.5	436.2	470.0	513.2	551.3	587.1
47.5°	322.9	326.0	331.3	341.3	358.7	378.1	402.2	432.5	470.4	508.5	538.8
50°	305.8	308.5	313.6	322.9	338.5	357.6	381.3	408.5	442.4	479.0	504.2
52.5°	288.7	290.2	294.9	305.5	318.6	337.3	358.6	383.6	415.3	445.7	471.3
55°	261.5	265.0	268.1	275.9	288.3	306.2	325.3	349.0	373.5	399.2	421.0
57.5°	233.1	236.9	241.4	248.2	258.1	274.8	291.9	311.1	332.0	353.4	371.6
60°	214.4	217.9	221.8	229.6	238.5	251.7	270.4	287.1	303.1	322.5	340.8
62.5°	196.0	199.5	204.0	210.3	218.9	231.5	247.1	261.6	278.2	295.2	308.8
65°	168.9	171.6	175.1	180.9	189.1	200.4	213.2	224.5	239.3	251.7	264.2
67.5°	139.1	144.3	148.9	153.6	160.5	171.0	180.3	191.1	201.2	210.4	221.8
70°	119.4	125.3	129.6	134.6	141.2	150.2	159.1	166.5	174.7	183.6	193.8
72.5°	103.0	107.5	110.9	116.3	122.2	130.6	138.9	145.0	151.7	157.8	167.6
75°	81.3	83.3	85.6	89.9	95.3	101.6	108.2	113.6	117.5	122.9	130.0
77.5°	58.4	62.2	63.7	66.8	70.7	74.5	78.9	83.5	87.2	89.2	94.5
80°	44.7	46.3	47.9	52.1	54.5	58.4	61.5	65.8	67.3	69.3	74.3
82.5°	34.8	35.7	36.7	37.8	39.2	43.1	46.2	48.9	50.5	51.2	55.0
85°	20.2	20.6	21.0	21.4	21.8	21.8	23.3	25.3	28.0	28.0	29.2
87.5°	9.5	10.0	9.7	9.0	9.7	8.7	9.0	8.9	9.7	10.1	10.7
90°	13.3	14.1	12.5	10.9	10.9	6.3	6.3	5.5	4.7	2.3	0.8
92.5°	206.6	248.0	217.1	157.9	97.3	57.5	41.3	29.9	20.3	13.0	8.9
95°	655.3	637.3	480.9	294.0	165.8	97.7	64.9	46.1	36.0	28.1	25.8
97.5°	823.2	671.2	450.1	264.3	158.4	106.0	78.5	62.4	53.0	46.3	46.3
100°	828.8	628.7	408.2	248.7	160.3	114.2	89.1	74.3	64.9	59.4	59.4
102.5°	781.9	575.5	380.0	244.3	166.5	124.8	101.0	86.8	78.0	73.2	71.9
105°	696.7	512.9	355.8	246.3	181.4	143.9	121.2	107.1	97.7	93.8	91.5
107.5°	627.9	477.9	351.4	257.9	198.8	164.4	142.0	128.5	118.5	114.6	113.1
110°	593.5	466.0	352.6	266.6	211.9	177.5	156.4	142.3	132.9	129.0	127.5



TEST NUMBER: P332909

CATALOG NUMBER: SA4XXRDIP-C575D810U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	574.1	460.4	356.4	276.0	224.4	191.3	170.1	156.1	147.3	142.8	141.2
115°	555.9	457.4	363.6	290.9	244.0	212.7	191.6	176.7	168.9	163.4	161.1
117.5°	547.8	456.6	371.3	306.0	262.9	233.2	211.3	197.4	188.8	183.9	181.7
120°	543.4	456.6	376.9	316.7	276.0	246.3	224.4	211.1	202.5	197.0	195.5
122.5°	538.4	456.0	382.5	326.7	288.5	258.8	237.5	223.0	215.0	209.6	208.0
125°	530.1	455.1	391.0	341.7	305.7	277.6	255.7	240.8	232.2	227.5	224.4
127.5°	519.0	453.4	397.7	354.7	321.7	294.5	272.4	256.9	247.1	241.5	239.0
130°	512.2	452.7	402.7	362.8	332.3	305.7	283.1	268.2	256.5	250.2	247.1
132.5°	505.9	452.1	407.1	370.9	341.1	314.5	293.1	277.0	265.9	257.7	255.2
135°	496.5	451.2	413.6	381.6	353.4	327.6	307.3	290.9	277.6	269.8	266.6
137.5°	488.4	451.0	417.5	389.1	362.8	338.7	319.3	302.3	289.6	281.0	278.1
140°	484.0	450.4	420.7	394.1	369.1	345.6	326.8	310.4	297.1	288.5	286.2
142.5°	480.3	450.4	423.2	397.8	374.7	351.9	333.7	317.9	305.3	297.3	294.9
145°	473.8	448.8	424.6	401.9	380.8	360.5	343.3	328.4	317.5	309.6	307.3
147.5°	468.1	446.0	425.4	405.5	387.1	368.0	352.5	340.1	328.9	322.0	321.2
150°	463.7	444.1	425.4	407.4	390.2	373.0	358.1	346.4	337.0	330.8	330.0
152.5°	458.7	441.0	424.1	408.6	392.7	377.4	363.8	353.3	344.5	338.3	338.1
155°	451.2	436.3	422.2	409.7	396.4	383.1	371.4	362.8	355.0	350.3	349.5
157.5°	443.5	431.5	420.2	409.7	399.1	387.8	378.6	371.1	365.0	360.6	360.6
160°	437.9	427.7	418.3	409.7	400.3	391.0	382.4	376.1	370.6	367.5	367.5
162.5°	432.9	424.0	416.5	409.7	401.6	392.8	386.1	380.5	375.6	373.1	373.8
165°	424.6	418.3	412.9	408.2	401.9	394.9	390.2	386.3	382.4	380.8	380.8
167.5°	417.1	412.7	409.1	406.3	401.8	396.6	393.0	390.8	387.8	387.1	387.8
170°	412.1	408.9	406.6	405.0	401.1	397.2	394.9	393.3	391.0	390.2	391.0
172.5°	407.7	405.2	404.1	403.8	400.5	397.8	396.1	395.2	393.5	393.3	394.1
175°	402.7	401.1	401.1	401.9	399.6	398.0	398.0	397.2	396.4	396.4	397.2
177.5°	399.2	398.6	398.6	399.9	398.6	398.0	398.0	398.0	397.4	398.0	398.6
180°	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0



TEST NUMBER: P332909

CATALOG NUMBER: SA4XXRDIP-C575D810U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7	965.7
2.5°	971.6	974.4	977.5	983.4	988.4	990.6	995.0	998.1	997.1	1001.5	1009.0
5°	975.4	985.9	998.0	1010.4	1024.4	1036.1	1045.5	1054.8	1062.2	1071.1	1084.4
7.5°	974.8	993.5	1013.8	1036.1	1059.1	1078.9	1097.3	1116.0	1132.5	1150.7	1174.4
10°	972.3	997.2	1022.5	1051.7	1080.9	1108.5	1133.4	1156.7	1178.9	1202.6	1232.6
12.5°	969.5	998.1	1028.7	1063.8	1100.2	1133.4	1162.7	1196.3	1224.0	1254.6	1289.3
15°	957.1	995.7	1037.3	1082.8	1126.4	1171.1	1211.2	1252.5	1291.0	1327.5	1371.1
17.5°	943.0	987.4	1036.5	1090.3	1142.7	1197.0	1244.6	1296.6	1335.9	1385.0	1425.5
20°	931.5	979.3	1031.8	1092.1	1151.7	1212.0	1264.5	1317.4	1361.8	1411.2	1462.6
22.5°	917.5	970.0	1026.9	1089.3	1151.7	1217.6	1275.7	1328.3	1383.3	1438.9	1491.8
25°	894.9	949.4	1009.7	1078.1	1149.7	1217.0	1279.3	1344.7	1403.8	1464.1	1511.6
27.5°	867.2	924.4	988.0	1058.6	1132.1	1201.0	1274.3	1344.0	1403.5	1461.5	1502.9
30°	845.1	905.4	966.5	1038.1	1114.3	1188.3	1266.8	1336.5	1399.1	1451.3	1474.6
32.5°	822.4	879.6	942.5	1015.0	1093.2	1172.7	1250.7	1321.9	1379.8	1411.1	1411.7
35°	782.8	836.5	901.9	973.1	1053.2	1139.6	1218.6	1288.6	1324.0	1326.8	1288.6
37.5°	739.7	789.0	850.7	922.0	1009.7	1095.7	1176.3	1223.0	1234.9	1195.3	1124.8
40°	708.9	754.4	814.0	887.1	974.3	1063.0	1136.5	1170.7	1158.3	1094.1	1015.5
42.5°	676.5	718.9	776.3	848.5	936.0	1025.6	1088.3	1106.6	1073.6	999.5	907.5
45°	623.7	662.6	719.4	792.2	876.2	960.3	1007.7	998.4	943.5	855.6	752.5
47.5°	568.7	606.3	657.4	724.7	810.8	883.3	915.4	887.3	809.2	712.5	628.6
50°	532.3	570.8	617.9	682.1	760.7	830.7	851.3	808.5	721.7	628.8	551.7
52.5°	496.5	529.4	575.5	637.5	712.7	771.9	782.8	733.5	643.9	560.6	492.3
55°	442.0	472.0	510.9	569.2	634.2	684.4	678.6	615.1	533.8	462.6	408.9
57.5°	389.3	411.9	447.8	502.5	559.6	593.3	571.9	517.9	442.1	383.8	338.5
60°	354.5	375.5	408.9	456.8	507.0	526.0	508.1	449.4	389.5	336.2	298.0
62.5°	321.5	340.0	368.8	413.2	453.7	465.0	445.9	394.6	340.6	295.1	263.5
65°	273.5	290.6	315.2	346.7	374.7	380.1	367.7	315.2	274.3	236.2	214.4
67.5°	230.0	241.2	260.4	287.6	302.5	305.7	281.6	248.6	212.6	189.2	172.8
70°	200.8	208.5	226.4	241.2	253.3	253.7	231.5	205.0	177.4	158.4	146.3
72.5°	172.4	179.9	193.5	203.6	212.8	209.8	189.5	168.6	146.3	131.9	122.9
75°	133.1	139.7	146.7	151.4	151.4	147.5	132.7	117.1	104.3	95.7	93.0
77.5°	96.7	102.2	104.5	103.8	102.4	96.3	87.0	76.8	72.2	68.2	66.1
80°	75.9	78.2	79.0	77.0	74.7	67.7	61.5	57.2	52.9	51.4	50.6
82.5°	56.3	58.3	56.3	56.8	51.7	45.9	42.5	41.0	39.2	38.6	37.8
85°	30.0	29.6	28.8	26.8	23.3	22.6	22.2	21.8	21.0	21.4	20.6
87.5°	10.7	10.3	9.2	9.0	9.0	9.3	9.7	10.0	10.3	9.8	10.6
90°	2.3	4.7	5.5	6.3	6.3	10.9	10.9	12.5	14.1	13.3	14.1
92.5°	13.0	20.3	29.9	41.3	57.5	97.3	157.9	217.1	248.0	206.6	153.6
95°	28.1	36.0	46.1	64.9	97.7	165.8	294.0	480.9	637.3	655.3	579.4
97.5°	46.3	53.0	62.4	78.5	106.0	158.4	264.3	450.1	671.2	823.2	856.0
100°	59.4	64.9	74.3	89.1	114.2	160.3	248.7	408.2	628.7	828.8	943.0
102.5°	73.2	78.0	86.8	101.0	124.8	166.5	244.3	380.0	575.5	781.9	938.6
105°	93.8	97.7	107.1	121.2	143.9	181.4	246.3	355.8	512.9	696.7	875.8
107.5°	114.6	118.5	128.5	142.0	164.4	198.8	257.9	351.4	477.9	627.9	786.5
110°	129.0	132.9	142.3	156.4	177.5	211.9	266.6	352.6	466.0	593.5	732.7



TEST NUMBER: P332909

CATALOG NUMBER: SA4XXRDIP-C575D810U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	142.8	147.3	156.1	170.1	191.3	224.4	276.0	356.4	460.4	574.1	693.3
115°	163.4	168.9	176.7	191.6	212.7	244.0	290.9	363.6	457.4	555.9	653.7
117.5°	183.9	188.8	197.4	211.3	233.2	262.9	306.0	371.3	456.6	547.8	634.3
120°	197.0	202.5	211.1	224.4	246.3	276.0	316.7	376.9	456.6	543.4	625.5
122.5°	209.6	215.0	223.0	237.5	258.8	288.5	326.7	382.5	456.0	538.4	618.0
125°	227.5	232.2	240.8	255.7	277.6	305.7	341.7	391.0	455.1	530.1	605.2
127.5°	241.5	247.1	256.9	272.4	294.5	321.7	354.7	397.7	453.4	519.0	589.6
130°	250.2	256.5	268.2	283.1	305.7	332.3	362.8	402.7	452.7	512.2	577.1
132.5°	257.7	265.9	277.0	293.1	314.5	341.1	370.9	407.1	452.1	505.9	563.9
135°	269.8	277.6	290.9	307.3	327.6	353.4	381.6	413.6	451.2	496.5	545.8
137.5°	281.0	289.6	302.3	319.3	338.7	362.8	389.1	417.5	451.0	488.4	529.4
140°	288.5	297.1	310.4	326.8	345.6	369.1	394.1	420.7	450.4	484.0	520.0
142.5°	297.3	305.3	317.9	333.7	351.9	374.7	397.8	423.2	450.4	480.3	511.2
145°	309.6	317.5	328.4	343.3	360.5	380.8	401.9	424.6	448.8	473.8	498.9
147.5°	322.0	328.9	340.1	352.5	368.0	387.1	405.5	425.4	446.0	468.1	488.7
150°	330.8	337.0	346.4	358.1	373.0	390.2	407.4	425.4	444.1	463.7	482.4
152.5°	338.3	344.5	353.3	363.8	377.4	392.7	408.6	424.1	441.0	458.7	475.6
155°	350.3	355.0	362.8	371.4	383.1	396.4	409.7	422.2	436.3	451.2	465.2
157.5°	360.6	365.0	371.1	378.6	387.8	399.1	409.7	420.2	431.5	443.5	454.1
160°	367.5	370.6	376.1	382.4	391.0	400.3	409.7	418.3	427.7	437.9	447.3
162.5°	373.1	375.6	380.5	386.1	392.8	401.6	409.7	416.5	424.0	432.9	440.4
165°	380.8	382.4	386.3	390.2	394.9	401.9	408.2	412.9	418.3	424.6	430.8
167.5°	387.1	387.8	390.8	393.0	396.6	401.8	406.3	409.1	412.7	417.1	421.6
170°	390.2	391.0	393.3	394.9	397.2	401.1	405.0	406.6	408.9	412.1	416.0
172.5°	393.3	393.5	395.2	396.1	397.8	400.5	403.8	404.1	405.2	407.7	411.0
175°	396.4	396.4	397.2	398.0	398.0	399.6	401.9	401.1	401.1	402.7	404.3
177.5°	398.0	397.4	398.0	398.0	398.0	398.6	399.9	398.6	398.6	399.2	399.9
180°	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0	398.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	965.7	965.7	965.7	965.7	965.7	965.7	965.7
2.5°	1013.0	1014.3	1015.2	1018.3	1018.6	1021.4	1018.6
5°	1096.8	1102.3	1110.8	1119.4	1120.2	1125.6	1115.9
7.5°	1190.8	1203.4	1211.3	1225.1	1230.6	1234.0	1228.4
10°	1255.6	1267.2	1287.9	1298.0	1308.1	1309.6	1305.0
12.5°	1318.1	1336.6	1352.9	1372.1	1371.6	1385.3	1380.3
15°	1401.5	1420.5	1443.1	1464.5	1472.3	1472.3	1478.5
17.5°	1460.9	1495.9	1519.2	1536.0	1554.4	1557.6	1555.4
20°	1501.1	1538.8	1563.7	1585.5	1598.0	1601.5	1601.5
22.5°	1531.0	1563.1	1587.4	1607.0	1617.3	1621.4	1620.1
25°	1551.7	1579.3	1594.1	1599.9	1602.6	1601.8	1594.5
27.5°	1523.3	1522.1	1512.7	1494.8	1481.4	1473.2	1463.9
30°	1469.2	1448.9	1425.6	1399.9	1366.8	1341.5	1333.8
32.5°	1388.6	1343.1	1303.6	1260.8	1225.2	1199.9	1189.3
35°	1232.6	1160.6	1101.9	1050.5	1013.2	989.8	982.0
37.5°	1047.6	977.9	905.2	855.4	824.4	800.8	792.0
40°	929.9	854.0	790.6	743.9	712.0	689.1	688.7
42.5°	822.5	750.1	690.4	656.8	622.4	607.2	607.1
45°	673.5	615.5	564.9	538.5	517.9	505.4	501.9
47.5°	557.6	509.7	476.0	454.9	438.1	430.2	425.0
50°	492.6	450.6	423.7	405.4	396.1	386.0	385.2
52.5°	438.4	404.5	383.6	368.7	356.9	350.8	351.0
55°	368.5	341.6	326.8	315.5	306.2	301.5	299.6
57.5°	310.4	290.3	279.5	269.2	265.2	261.5	260.5
60°	274.3	260.7	250.6	242.4	236.6	235.4	235.0
62.5°	244.4	230.2	223.2	216.9	212.6	210.8	210.1
65°	201.5	191.0	184.8	179.8	178.2	175.5	175.1
67.5°	162.5	156.2	152.1	148.6	146.4	146.3	146.3
70°	138.5	135.0	131.5	129.6	128.4	127.6	127.6
72.5°	118.0	115.4	112.5	111.5	111.3	110.5	110.2
75°	89.9	87.2	87.5	85.6	84.0	82.1	80.9
77.5°	63.7	61.8	61.4	61.2	59.8	59.6	60.2
80°	49.4	47.5	47.1	47.5	47.1	45.9	45.9
82.5°	37.6	36.0	35.6	35.3	34.9	35.3	34.7
85°	20.2	19.5	19.5	19.5	20.2	19.8	19.5
87.5°	10.1	10.0	10.3	10.1	10.3	9.8	10.1
90°	14.9	15.6	15.6	16.4	17.2	16.4	16.4
92.5°	115.6	92.0	76.3	67.1	62.9	60.2	60.2
95°	458.2	353.4	277.6	239.3	215.0	201.0	190.8
97.5°	811.0	734.5	652.9	596.8	549.7	526.2	510.0
100°	958.6	920.3	862.5	794.4	746.7	723.3	717.0
102.5°	1016.2	1027.3	1003.2	961.5	926.9	902.2	897.2
105°	1011.0	1088.4	1120.5	1122.1	1115.8	1104.9	1100.2
107.5°	930.5	1039.5	1109.2	1147.9	1165.7	1173.5	1175.5
110°	867.9	981.3	1067.3	1122.8	1155.7	1169.8	1176.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	812.9	920.0	1006.0	1069.0	1108.8	1128.5	1139.9
115°	749.9	841.3	916.4	978.2	1025.1	1050.1	1056.4
117.5°	713.9	785.8	849.5	902.2	941.6	966.9	971.8
120°	698.3	760.8	816.3	860.9	895.3	915.6	924.2
122.5°	688.2	745.2	793.8	831.5	860.9	878.1	886.7
125°	672.5	726.4	769.4	800.7	823.4	838.2	842.9
127.5°	653.8	707.6	748.5	779.9	800.1	812.6	817.3
130°	638.8	692.0	733.4	765.5	785.1	797.6	802.3
132.5°	621.9	673.9	715.3	746.7	768.8	780.7	785.4
135°	596.6	644.3	683.4	714.7	736.6	749.1	753.8
137.5°	572.4	612.6	647.9	677.1	698.7	709.0	714.7
140°	556.7	591.9	624.8	652.1	669.3	680.3	686.5
142.5°	543.6	573.8	602.2	626.5	642.4	652.1	656.5
145°	525.5	548.9	570.8	590.4	603.6	611.5	615.4
147.5°	509.8	528.6	545.8	560.2	571.6	577.5	578.9
150°	500.4	516.1	530.1	542.7	552.8	557.5	558.3
152.5°	491.0	505.4	517.0	527.6	535.9	538.7	539.5
155°	477.8	489.5	498.9	506.7	512.9	515.3	515.3
157.5°	464.6	474.5	482.0	487.9	492.6	494.0	494.0
160°	455.9	464.5	470.7	475.4	480.1	480.9	480.9
162.5°	447.7	454.5	460.1	463.5	468.2	469.0	468.4
165°	435.5	441.0	444.9	448.0	451.2	450.4	449.6
167.5°	425.2	429.6	431.9	433.5	435.5	435.4	434.7
170°	418.3	421.5	423.8	425.4	426.1	425.4	425.4
172.5°	412.7	414.6	416.3	417.2	418.0	417.2	416.0
175°	405.0	406.6	406.6	406.6	408.2	406.6	405.0
177.5°	400.5	400.5	401.1	400.5	401.1	399.9	398.6
180°	398.0	398.0	398.0	398.0	398.0	398.0	398.0

(END OF REPORT)