

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: P332909-840

Luminaire Tested: **SA4XXRDIP-C575D810U840-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332909-840
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-C575D810U840-4F0-1E-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

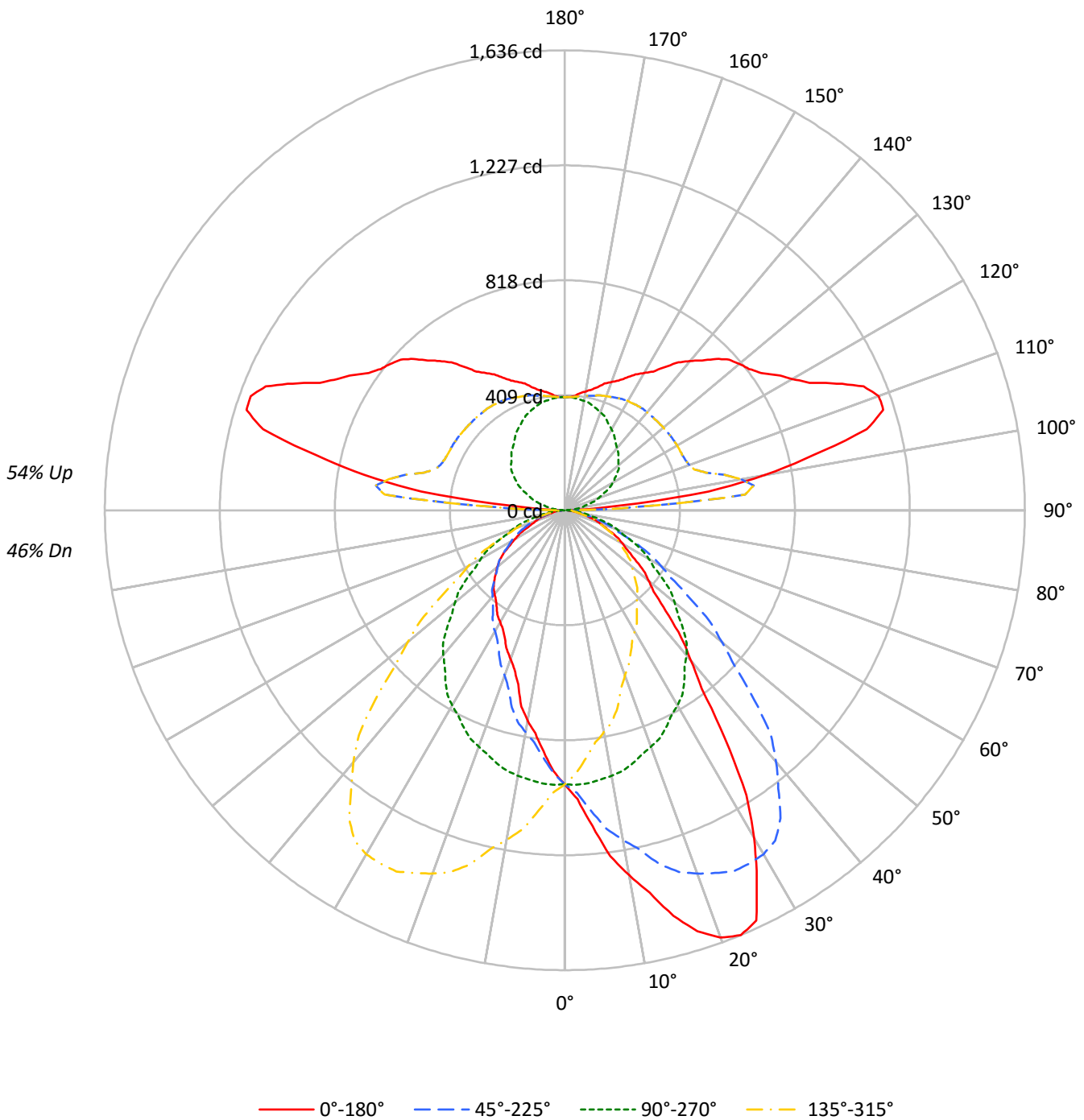
Lumens per Lamp: N/A
Luminaire Lumens: 5390.5 lumens
Efficiency: N/A
Efficacy: 140.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

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°	7873	7873	7873	7873
5°	9132	7896	6980	7896
10°	10803	7862	6229	7862
15°	12479	7789	5353	7789
20°	13894	7689	4840	7689
25°	14343	7591	4494	7591
30°	12557	7471	4285	7471
35°	9773	7295	4159	7295
40°	7330	7093	4091	7093
45°	5787	6769	4055	6769
50°	4886	6395	3939	6395
55°	4259	5985	3727	5985
60°	3831	5557	3299	5557
65°	3377	5096	2839	5096
70°	3043	4619	2561	4619
75°	2548	4095	2183	4095
80°	2157	3487	2046	3487
85°	1825	2732	1825	2732



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.5	1.8
10°-20°	285.0	5.3
20°-30°	445.8	8.3
30°-40°	495.6	9.2
40°-50°	439.7	8.2
50°-60°	342.6	6.4
60°-70°	224.3	4.2
70°-80°	110.3	2.0
80°-90°	29.4	0.5
90°-100°	290.3	5.4
100°-110°	604.2	11.2
110°-120°	541.2	10.0
120°-130°	455.2	8.4
130°-140°	379.6	7.0
140°-150°	290.0	5.4
150°-160°	203.8	3.8
160°-170°	119.9	2.2
170°-180°	39.0	0.7
0°-30°	825.3	15.3
0°-40°	1320.9	24.5
0°-60°	2103.3	39.0
0°-90°	2467.4	45.8
90°-120°	1435.7	26.6
90°-150°	2560.4	47.5
90°-180°	2923.0	54.2
0°-180°	5390.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	975	975	975	975	975	
5°	1127	974	861	974	1127	114
15°	1493	932	640	932	1493	425
25°	1610	852	504	852	1610	714
35°	992	740	422	740	992	622
45°	507	593	355	593	507	401
55°	303	425	265	425	303	275
65°	177	267	149	267	177	178
75°	82	131	70	131	82	90
85°	20	30	20	30	20	23
90°	17	1	17	1	17	14
95°	193	26	193	26	193	299
105°	1111	92	1111	92	1111	1098
115°	1067	163	1067	163	1067	1059
125°	851	227	851	227	851	774
135°	761	269	761	269	761	588
145°	622	310	622	310	622	394
155°	520	353	520	353	520	243
165°	454	385	454	385	454	130
175°	409	401	409	401	409	40
180°	402	402	402	402	402	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2
2.5°	1028.6	1031.5	1028.6	1028.3	1025.2	1024.3	1023.0	1019.0	1011.4	1006.9	1007.9
5°	1126.9	1136.7	1131.3	1130.4	1121.8	1113.2	1107.6	1095.1	1081.7	1072.7	1065.2
7.5°	1240.5	1246.2	1242.7	1237.2	1223.2	1215.3	1202.5	1186.0	1162.1	1143.7	1127.0
10°	1317.9	1322.5	1321.0	1310.8	1300.6	1279.7	1268.0	1244.8	1214.5	1190.5	1168.1
12.5°	1393.9	1399.0	1385.1	1385.6	1366.2	1349.8	1331.1	1302.0	1267.0	1236.1	1208.1
15°	1493.1	1486.8	1486.8	1478.9	1457.3	1434.5	1415.3	1384.6	1340.6	1303.7	1264.9
17.5°	1570.7	1573.0	1569.7	1551.2	1534.2	1510.7	1475.3	1439.6	1398.7	1349.1	1309.4
20°	1617.3	1617.3	1613.8	1601.1	1579.1	1554.0	1515.9	1477.0	1425.1	1375.2	1330.4
22.5°	1636.1	1637.4	1633.3	1622.9	1603.1	1578.5	1546.1	1506.5	1453.1	1396.9	1341.4
25°	1610.2	1617.6	1618.4	1615.7	1609.8	1594.9	1567.0	1526.5	1478.5	1417.6	1358.0
27.5°	1478.3	1487.7	1496.0	1509.5	1527.6	1537.1	1538.3	1517.7	1475.9	1417.3	1357.3
30°	1347.0	1354.7	1380.3	1413.7	1439.7	1463.2	1483.7	1489.1	1465.6	1412.9	1349.7
32.5°	1201.0	1211.7	1237.3	1273.2	1316.5	1356.3	1402.3	1425.6	1425.0	1393.4	1334.9
35°	991.7	999.6	1023.2	1060.9	1112.8	1172.0	1244.8	1301.3	1339.9	1337.1	1301.3
37.5°	799.8	808.7	832.5	863.8	914.1	987.5	1057.9	1135.9	1207.1	1247.1	1235.1
40°	695.5	695.9	719.0	751.2	798.4	862.4	939.1	1025.5	1104.9	1169.7	1182.2
42.5°	613.1	613.2	628.5	663.3	697.2	757.5	830.6	916.5	1009.4	1084.2	1117.5
45°	506.9	510.4	523.0	543.8	570.5	621.6	680.1	759.9	864.0	952.8	1008.2
47.5°	429.2	434.4	442.4	459.4	480.7	514.7	563.1	634.8	719.5	817.2	896.1
50°	389.0	389.8	400.0	409.4	427.9	455.0	497.5	557.1	635.0	728.8	816.5
52.5°	354.5	354.3	360.4	372.3	387.4	408.5	442.7	497.2	566.1	650.3	740.7
55°	302.6	304.5	309.2	318.6	330.0	345.0	372.1	412.9	467.2	539.1	621.2
57.5°	263.1	264.1	267.8	271.9	282.3	293.2	313.5	341.8	387.6	446.5	523.0
60°	237.3	237.7	238.9	244.8	253.1	263.3	277.0	300.9	339.5	393.3	453.8
62.5°	212.2	212.9	214.7	219.0	225.4	232.5	246.8	266.1	298.0	344.0	398.5
65°	176.8	177.2	180.0	181.6	186.6	192.9	203.5	216.5	238.5	277.0	318.3
67.5°	147.7	147.7	147.8	150.1	153.6	157.7	164.1	174.5	191.1	214.7	251.1
70°	128.9	128.9	129.7	130.9	132.8	136.3	139.9	147.7	160.0	179.2	207.0
72.5°	111.3	111.6	112.4	112.6	113.6	116.5	119.2	124.1	133.2	147.7	170.3
75°	81.7	82.9	84.8	86.4	88.4	88.1	90.8	93.9	96.6	105.3	118.3
77.5°	60.8	60.2	60.4	61.8	62.0	62.4	64.3	66.8	68.9	72.9	77.6
80°	46.4	46.4	47.6	48.0	47.6	48.0	49.9	51.1	51.9	53.4	57.8
82.5°	35.0	35.6	35.2	35.6	36.0	36.4	38.0	38.2	39.0	39.6	41.4
85°	19.7	20.0	20.4	19.7	19.7	19.7	20.4	20.8	21.6	21.2	22.0
87.5°	10.2	9.9	10.4	10.2	10.4	10.1	10.2	10.7	9.9	10.4	10.1
90°	16.6	16.6	17.4	16.6	15.8	15.8	15.0	14.2	13.4	14.2	12.6
92.5°	60.8	60.8	63.5	67.8	77.1	92.9	116.7	155.1	208.6	250.4	219.2
95°	192.7	203.0	217.1	241.7	280.3	356.9	462.7	585.1	661.8	643.6	485.6
97.5°	515.0	531.4	555.1	602.7	659.3	741.7	819.0	864.4	831.3	677.8	454.5
100°	724.1	730.4	754.1	802.2	871.0	929.4	968.1	952.3	837.0	634.9	412.2
102.5°	906.1	911.1	936.0	971.0	1013.1	1037.4	1026.2	947.9	789.6	581.2	383.7
105°	1111.1	1115.8	1126.8	1133.2	1131.6	1099.1	1021.0	884.4	703.6	518.0	359.3
107.5°	1187.1	1185.1	1177.2	1159.2	1120.1	1049.8	939.7	794.3	634.1	482.6	354.9
110°	1188.4	1181.3	1167.1	1133.9	1077.8	991.0	876.5	739.9	599.4	470.6	356.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1151.1	1139.6	1119.7	1079.5	1015.9	929.1	820.9	700.1	579.8	464.9	359.9
115°	1066.8	1060.5	1035.2	987.8	925.4	849.6	757.3	660.1	561.4	461.9	367.2
117.5°	981.4	976.4	950.9	911.1	857.9	793.6	720.9	640.6	553.2	461.1	375.0
120°	933.3	924.6	904.1	869.4	824.4	768.3	705.2	631.7	548.8	461.1	380.6
122.5°	895.4	886.8	869.4	839.7	801.6	752.6	695.0	624.1	543.7	460.5	386.3
125°	851.2	846.5	831.5	808.6	777.0	733.6	679.1	611.2	535.3	459.6	394.9
127.5°	825.4	820.6	808.0	787.6	755.9	714.6	660.2	595.4	524.1	457.9	401.6
130°	810.2	805.5	792.8	773.1	740.6	698.8	645.1	582.8	517.3	457.2	406.7
132.5°	793.1	788.4	776.4	754.1	722.4	680.5	628.0	569.5	510.9	456.6	411.1
135°	761.2	756.5	743.9	721.8	690.1	650.7	602.5	551.2	501.4	455.7	417.7
137.5°	721.8	716.0	705.6	683.8	654.3	618.6	578.0	534.6	493.2	455.4	421.6
140°	693.3	687.0	675.9	658.5	631.0	597.7	562.2	525.1	488.8	454.8	424.9
142.5°	663.0	658.5	648.7	632.7	608.1	579.5	549.0	516.2	485.0	454.8	427.4
145°	621.5	617.5	609.6	596.2	576.4	554.3	530.7	503.8	478.5	453.2	428.8
147.5°	584.6	583.2	577.2	565.7	551.2	533.8	514.8	493.5	472.7	450.4	429.6
150°	563.8	563.0	558.3	548.1	535.3	521.2	505.3	487.2	468.3	448.5	429.6
152.5°	544.8	544.0	541.2	532.8	522.1	510.4	495.8	480.3	463.2	445.4	428.3
155°	520.4	520.4	518.0	511.7	503.8	494.3	482.5	469.8	455.7	440.6	426.4
157.5°	498.9	498.9	497.5	492.7	486.8	479.2	469.2	458.6	447.9	435.8	424.3
160°	485.6	485.6	484.8	480.1	475.3	469.1	460.4	451.7	442.2	431.9	422.4
162.5°	473.0	473.6	472.8	468.1	464.6	459.0	452.1	444.7	437.2	428.2	420.6
165°	454.0	454.8	455.7	452.4	449.3	445.4	439.8	435.0	428.8	422.4	417.0
167.5°	439.0	439.7	439.8	437.8	436.2	433.8	429.4	425.8	421.2	416.8	413.1
170°	429.6	429.6	430.3	429.6	428.0	425.7	422.4	420.1	416.2	412.9	410.6
172.5°	420.1	421.3	422.1	421.3	420.4	418.7	416.8	415.1	411.7	409.2	408.1
175°	409.0	410.6	412.2	410.6	410.6	410.6	409.0	408.3	406.7	405.1	405.1
177.5°	402.5	403.8	405.1	404.5	405.1	404.5	404.5	403.8	403.1	402.5	402.5
180°	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2
2.5°	1004.8	1000.4	998.2	993.1	987.1	984.0	981.2	977.1	971.8	966.1	962.0
5°	1055.8	1046.3	1034.5	1020.4	1007.8	995.6	985.0	974.4	962.3	949.7	937.2
7.5°	1108.1	1089.5	1069.5	1046.3	1023.8	1003.3	984.4	966.3	945.9	927.6	910.9
10°	1144.6	1119.4	1091.6	1062.1	1032.6	1007.0	981.9	959.1	933.9	911.6	892.7
12.5°	1174.2	1144.6	1111.1	1074.3	1038.8	1007.9	979.1	949.4	920.8	896.5	871.3
15°	1223.1	1182.7	1137.5	1093.5	1047.5	1005.5	966.5	932.0	899.4	865.3	841.2
17.5°	1256.9	1208.8	1154.0	1101.1	1046.7	997.1	952.3	911.1	873.4	838.6	810.0
20°	1277.0	1224.0	1163.1	1102.9	1042.0	989.0	940.7	895.0	856.2	818.5	789.0
22.5°	1288.3	1229.6	1163.1	1100.0	1037.0	979.6	926.6	879.1	836.7	799.0	766.4
25°	1291.9	1229.0	1161.0	1088.7	1019.7	958.8	903.7	852.2	805.1	767.4	732.8
27.5°	1286.9	1212.8	1143.3	1069.0	997.7	933.5	875.8	821.6	774.5	734.0	698.5
30°	1279.3	1200.0	1125.3	1048.3	976.0	914.3	853.4	801.5	752.5	710.4	674.7
32.5°	1263.0	1184.3	1104.0	1025.0	951.8	888.3	830.5	778.3	730.1	687.1	649.1
35°	1230.6	1150.8	1063.6	982.7	910.8	844.8	790.5	740.2	694.3	648.3	608.2
37.5°	1187.9	1106.5	1019.7	931.1	859.1	796.8	747.0	699.8	654.9	613.0	568.6
40°	1147.7	1073.5	983.9	895.9	822.0	761.8	715.9	673.1	627.9	586.2	541.8
42.5°	1099.0	1035.7	945.2	856.9	784.0	726.0	683.2	641.4	600.3	559.9	513.5
45°	1017.6	969.8	884.8	800.0	726.5	669.1	629.9	592.9	556.7	518.3	474.6
47.5°	924.4	892.0	818.8	731.8	663.9	612.3	574.3	544.1	513.5	475.0	436.8
50°	859.7	838.9	768.2	688.8	624.0	576.4	537.6	509.2	483.7	446.8	412.5
52.5°	790.5	779.5	719.7	643.8	581.2	534.6	501.4	475.9	450.1	419.4	387.4
55°	685.3	691.2	640.5	574.8	515.9	476.7	446.4	425.2	403.1	377.2	352.4
57.5°	577.5	599.2	565.1	507.5	452.2	416.0	393.1	375.3	356.9	335.3	314.2
60°	513.1	531.2	512.0	461.3	412.9	379.2	358.0	344.2	325.7	306.1	289.9
62.5°	450.3	469.6	458.2	417.3	372.4	343.4	324.7	311.8	298.1	280.9	264.2
65°	371.3	383.8	378.4	350.1	318.3	293.5	276.2	266.8	254.2	241.7	226.7
67.5°	284.4	308.7	305.5	290.4	263.0	243.6	232.3	224.0	212.5	203.2	193.0
70°	233.8	256.2	255.8	243.6	228.6	210.6	202.8	195.7	185.4	176.4	168.1
72.5°	191.4	211.9	214.9	205.6	195.4	181.7	174.1	169.3	159.4	153.2	146.4
75°	134.0	149.0	152.9	152.9	148.1	141.1	134.4	131.3	124.1	118.7	114.7
77.5°	87.9	97.3	103.4	104.8	105.5	103.2	97.7	95.4	90.1	88.1	84.3
80°	62.1	68.4	75.4	77.8	79.8	79.0	76.6	75.0	70.0	68.0	66.4
82.5°	42.9	46.4	52.2	57.4	56.9	58.9	56.9	55.5	51.7	51.0	49.4
85°	22.4	22.8	23.5	27.1	29.1	29.9	30.3	29.5	28.3	28.3	25.5
87.5°	9.8	9.4	9.1	9.1	9.3	10.4	10.8	10.8	10.2	9.8	9.0
90°	11.0	11.0	6.4	6.4	5.6	4.7	2.3	0.8	2.3	4.7	5.6
92.5°	159.5	98.3	58.1	41.7	30.2	20.5	13.1	9.0	13.1	20.5	30.2
95°	296.9	167.4	98.7	65.5	46.6	36.4	28.4	26.1	28.4	36.4	46.6
97.5°	266.9	160.0	107.0	79.3	63.0	53.5	46.8	46.8	46.8	53.5	63.0
100°	251.2	161.9	115.3	90.0	75.0	65.5	60.0	60.0	60.0	65.5	75.0
102.5°	246.7	168.1	126.0	102.0	87.7	78.8	73.9	72.6	73.9	78.8	87.7
105°	248.7	183.2	145.3	122.4	108.2	98.7	94.7	92.4	94.7	98.7	108.2
107.5°	260.4	200.8	166.0	143.4	129.8	119.7	115.7	114.2	115.7	119.7	129.8
110°	269.2	214.0	179.3	157.9	143.7	134.2	130.3	128.8	130.3	134.2	143.7



TEST NUMBER: P332909-840

CATALOG NUMBER: SA4XXRDIP-C575D810U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	278.7	226.6	193.2	171.8	157.6	148.8	144.2	142.6	144.2	148.8	157.6
115°	293.8	246.4	214.8	193.5	178.4	170.6	165.0	162.7	165.0	170.6	178.4
117.5°	309.0	265.5	235.5	213.4	199.3	190.7	185.7	183.5	185.7	190.7	199.3
120°	319.8	278.7	248.7	226.6	213.2	204.5	198.9	197.4	198.9	204.5	213.2
122.5°	329.9	291.3	261.4	239.8	225.2	217.1	211.7	210.1	211.7	217.1	225.2
125°	345.1	308.7	280.3	258.2	243.2	234.5	229.7	226.6	229.7	234.5	243.2
127.5°	358.2	324.9	297.4	275.1	259.4	249.5	243.9	241.4	243.9	249.5	259.4
130°	366.4	335.6	308.7	285.9	270.8	259.0	252.7	249.5	252.7	259.0	270.8
132.5°	374.6	344.5	317.6	296.0	279.7	268.5	260.2	257.7	260.2	268.5	279.7
135°	385.4	356.9	330.8	310.3	293.8	280.3	272.5	269.2	272.5	280.3	293.8
137.5°	392.9	366.4	342.0	322.4	305.3	292.5	283.8	280.8	283.8	292.5	305.3
140°	398.0	372.7	349.0	330.0	313.5	300.0	291.3	289.0	291.3	300.0	313.5
142.5°	401.7	378.4	355.4	337.0	321.0	308.3	300.2	297.8	300.2	308.3	321.0
145°	405.9	384.6	364.1	346.7	331.6	320.6	312.7	310.3	312.7	320.6	331.6
147.5°	409.5	390.9	371.6	356.0	343.5	332.1	325.2	324.4	325.2	332.1	343.5
150°	411.4	394.0	376.7	361.6	349.8	340.3	334.1	333.3	334.1	340.3	349.8
152.5°	412.6	396.6	381.1	367.4	356.8	347.9	341.6	341.4	341.6	347.9	356.8
155°	413.7	400.3	386.9	375.1	366.4	358.5	353.8	352.9	353.8	358.5	366.4
157.5°	413.7	403.0	391.6	382.3	374.8	368.6	364.2	364.2	364.2	368.6	374.8
160°	413.7	404.2	394.9	386.2	379.8	374.3	371.1	371.1	371.1	374.3	379.8
162.5°	413.7	405.6	396.7	389.9	384.3	379.3	376.8	377.5	376.8	379.3	384.3
165°	412.2	405.9	398.8	394.0	390.1	386.2	384.6	384.6	384.6	386.2	390.1
167.5°	410.3	405.8	400.5	396.9	394.7	391.6	390.9	391.6	390.9	391.6	394.7
170°	409.0	405.1	401.1	398.8	397.2	394.9	394.0	394.9	394.0	394.9	397.2
172.5°	407.8	404.5	401.7	400.0	399.1	397.4	397.2	398.0	397.2	397.4	399.1
175°	405.9	403.5	401.9	401.9	401.1	400.3	400.3	401.1	400.3	400.3	401.1
177.5°	403.8	402.5	401.9	401.9	401.9	401.3	401.9	402.5	401.9	401.3	401.9
180°	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9



TEST NUMBER: P332909-840

CATALOG NUMBER: SA4XXRDIP-C575D810U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2
2.5°	957.7	954.5	950.4	945.6	940.0	935.0	932.8	934.6	935.6	933.1	932.8
5°	928.5	918.7	910.8	899.0	889.6	881.7	876.2	873.8	874.6	868.4	866.8
7.5°	895.6	884.0	871.2	857.2	844.1	832.6	826.6	823.2	816.6	813.7	808.9
10°	874.6	858.9	846.4	829.8	815.0	801.1	794.5	789.0	782.3	779.1	772.4
12.5°	852.9	834.8	820.9	803.8	788.5	771.9	765.6	755.4	744.9	738.3	729.7
15°	822.3	800.4	783.5	763.1	745.0	726.1	709.2	690.3	683.3	668.3	659.7
17.5°	786.6	764.3	743.4	716.0	688.1	664.7	646.6	628.6	617.7	608.2	603.8
20°	763.1	742.7	713.6	681.8	650.7	624.7	610.2	598.4	586.6	580.0	575.2
22.5°	740.7	714.7	680.9	646.5	615.5	595.2	582.9	570.8	561.2	554.8	548.6
25°	703.4	669.1	633.4	594.1	572.9	555.2	541.8	532.0	526.1	517.9	514.7
27.5°	664.9	623.5	584.0	557.6	535.5	519.4	507.8	500.4	492.9	487.6	483.5
30°	635.3	593.3	558.0	532.8	510.4	497.1	487.6	479.0	473.1	468.8	465.6
32.5°	606.1	564.1	534.3	507.4	489.7	476.7	466.6	460.1	455.4	449.9	448.0
35°	563.8	526.5	500.6	476.3	458.2	446.4	438.5	431.8	427.9	426.4	425.2
37.5°	523.2	492.6	464.7	444.7	428.7	419.4	410.1	406.9	404.1	401.3	402.6
40°	497.5	468.8	444.0	422.8	409.8	399.6	394.0	390.2	387.8	387.8	387.8
42.5°	475.1	447.1	422.9	403.9	390.9	382.3	376.2	372.8	372.1	371.7	373.7
45°	440.5	414.5	390.2	374.5	363.5	354.8	351.2	348.5	348.5	350.1	350.5
47.5°	406.2	381.8	362.2	344.7	334.6	329.2	326.1	324.7	324.9	326.4	328.2
50°	385.1	361.1	341.8	326.1	316.7	311.5	308.8	308.0	308.8	308.8	311.5
52.5°	362.1	340.6	321.7	308.5	297.8	293.1	291.5	290.4	290.9	292.2	293.4
55°	328.5	309.2	291.1	278.6	270.7	267.6	264.1	264.5	263.7	264.5	264.5
57.5°	294.8	277.5	260.6	250.6	243.8	239.2	235.4	236.4	235.3	235.1	234.5
60°	273.1	254.2	240.9	231.9	224.0	220.0	216.5	217.3	216.1	215.3	213.8
62.5°	249.5	233.8	221.1	212.4	206.0	201.5	197.9	197.1	194.4	191.8	188.2
65°	215.3	202.4	191.0	182.7	176.8	173.3	170.6	168.1	162.3	156.0	152.9
67.5°	182.1	172.7	162.1	155.1	150.4	145.7	140.5	136.4	130.9	127.4	125.5
70°	160.7	151.7	142.6	135.9	130.9	126.5	120.6	117.9	113.9	112.4	110.4
72.5°	140.3	131.9	123.4	117.4	112.0	108.6	104.0	101.2	99.5	98.9	96.8
75°	109.3	102.6	96.2	90.8	86.4	84.1	82.1	80.2	79.4	75.8	73.8
77.5°	79.7	75.2	71.4	67.5	64.3	62.8	59.0	56.8	55.4	53.7	53.3
80°	62.1	59.0	55.0	52.6	48.4	46.8	45.1	44.8	44.4	44.0	43.6
82.5°	46.7	43.5	39.6	38.2	37.1	36.1	35.1	34.7	34.3	34.5	34.5
85°	23.5	22.0	22.0	21.6	21.2	20.8	20.4	20.4	20.0	20.4	20.0
87.5°	9.1	8.8	9.8	9.1	9.8	10.1	9.6	9.8	10.2	9.8	9.8
90°	6.4	6.4	11.0	11.0	12.6	14.2	13.4	14.2	15.0	15.8	15.8
92.5°	41.7	58.1	98.3	159.5	219.2	250.4	208.6	155.1	116.7	92.9	77.1
95°	65.5	98.7	167.4	296.9	485.6	643.6	661.8	585.1	462.7	356.9	280.3
97.5°	79.3	107.0	160.0	266.9	454.5	677.8	831.3	864.4	819.0	741.7	659.3
100°	90.0	115.3	161.9	251.2	412.2	634.9	837.0	952.3	968.1	929.4	871.0
102.5°	102.0	126.0	168.1	246.7	383.7	581.2	789.6	947.9	1026.2	1037.4	1013.1
105°	122.4	145.3	183.2	248.7	359.3	518.0	703.6	884.4	1021.0	1099.1	1131.6
107.5°	143.4	166.0	200.8	260.4	354.9	482.6	634.1	794.3	939.7	1049.8	1120.1
110°	157.9	179.3	214.0	269.2	356.1	470.6	599.4	739.9	876.5	991.0	1077.8



TEST NUMBER: P332909-840

CATALOG NUMBER: SA4XXRDIP-C575D810U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	171.8	193.2	226.6	278.7	359.9	464.9	579.8	700.1	820.9	929.1	1015.9
115°	193.5	214.8	246.4	293.8	367.2	461.9	561.4	660.1	757.3	849.6	925.4
117.5°	213.4	235.5	265.5	309.0	375.0	461.1	553.2	640.6	720.9	793.6	857.9
120°	226.6	248.7	278.7	319.8	380.6	461.1	548.8	631.7	705.2	768.3	824.4
122.5°	239.8	261.4	291.3	329.9	386.3	460.5	543.7	624.1	695.0	752.6	801.6
125°	258.2	280.3	308.7	345.1	394.9	459.6	535.3	611.2	679.1	733.6	777.0
127.5°	275.1	297.4	324.9	358.2	401.6	457.9	524.1	595.4	660.2	714.6	755.9
130°	285.9	308.7	335.6	366.4	406.7	457.2	517.3	582.8	645.1	698.8	740.6
132.5°	296.0	317.6	344.5	374.6	411.1	456.6	510.9	569.5	628.0	680.5	722.4
135°	310.3	330.8	356.9	385.4	417.7	455.7	501.4	551.2	602.5	650.7	690.1
137.5°	322.4	342.0	366.4	392.9	421.6	455.4	493.2	534.6	578.0	618.6	654.3
140°	330.0	349.0	372.7	398.0	424.9	454.8	488.8	525.1	562.2	597.7	631.0
142.5°	337.0	355.4	378.4	401.7	427.4	454.8	485.0	516.2	549.0	579.5	608.1
145°	346.7	364.1	384.6	405.9	428.8	453.2	478.5	503.8	530.7	554.3	576.4
147.5°	356.0	371.6	390.9	409.5	429.6	450.4	472.7	493.5	514.8	533.8	551.2
150°	361.6	376.7	394.0	411.4	429.6	448.5	468.3	487.2	505.3	521.2	535.3
152.5°	367.4	381.1	396.6	412.6	428.3	445.4	463.2	480.3	495.8	510.4	522.1
155°	375.1	386.9	400.3	413.7	426.4	440.6	455.7	469.8	482.5	494.3	503.8
157.5°	382.3	391.6	403.0	413.7	424.3	435.8	447.9	458.6	469.2	479.2	486.8
160°	386.2	394.9	404.2	413.7	422.4	431.9	442.2	451.7	460.4	469.1	475.3
162.5°	389.9	396.7	405.6	413.7	420.6	428.2	437.2	444.7	452.1	459.0	464.6
165°	394.0	398.8	405.9	412.2	417.0	422.4	428.8	435.0	439.8	445.4	449.3
167.5°	396.9	400.5	405.8	410.3	413.1	416.8	421.2	425.8	429.4	433.8	436.2
170°	398.8	401.1	405.1	409.0	410.6	412.9	416.2	420.1	422.4	425.7	428.0
172.5°	400.0	401.7	404.5	407.8	408.1	409.2	411.7	415.1	416.8	418.7	420.4
175°	401.9	401.9	403.5	405.9	405.1	405.1	406.7	408.3	409.0	410.6	410.6
177.5°	401.9	401.9	402.5	403.8	402.5	402.5	403.1	403.8	404.5	404.5	405.1
180°	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9



TEST NUMBER: P332909-840

CATALOG NUMBER: SA4XXRDIP-C575D810U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2
2.5°	930.9	931.5	929.4	928.7	929.4	931.5	930.9	932.8	933.1	935.6	934.6
5°	863.6	862.8	860.9	861.3	860.9	862.8	863.6	866.8	868.4	874.6	873.8
7.5°	806.1	803.0	804.0	800.7	804.0	803.0	806.1	808.9	813.7	816.6	823.2
10°	770.9	766.6	763.1	759.9	763.1	766.6	770.9	772.4	779.1	782.3	789.0
12.5°	722.9	719.1	714.3	715.3	714.3	719.1	722.9	729.7	738.3	744.9	755.4
15°	654.6	648.7	639.2	640.5	639.2	648.7	654.6	659.7	668.3	683.3	690.3
17.5°	596.8	596.9	592.6	593.6	592.6	596.9	596.8	603.8	608.2	617.7	628.6
20°	566.9	564.2	564.6	563.4	564.6	564.2	566.9	575.2	580.0	586.6	598.4
22.5°	546.2	542.9	540.1	537.7	540.1	542.9	546.2	548.6	554.8	561.2	570.8
25°	511.2	508.9	505.3	504.5	505.3	508.9	511.2	514.7	517.9	526.1	532.0
27.5°	480.4	479.9	478.5	476.7	478.5	479.9	480.4	483.5	487.6	492.9	500.4
30°	462.4	461.7	460.9	459.7	460.9	461.7	462.4	465.6	468.8	473.1	479.0
32.5°	446.5	446.0	445.1	445.2	445.1	446.0	446.5	448.0	449.9	455.4	460.1
35°	423.5	423.1	422.4	422.0	422.4	423.1	423.5	425.2	426.4	427.9	431.8
37.5°	402.2	403.2	402.7	402.6	402.7	403.2	402.2	402.6	401.3	404.1	406.9
40°	387.4	387.8	388.6	388.2	388.6	387.8	387.4	387.8	387.8	387.8	390.2
42.5°	375.2	375.3	376.4	375.0	376.4	375.3	375.2	373.7	371.7	372.1	372.8
45°	353.3	355.6	355.2	355.2	355.2	355.6	353.3	350.5	350.1	348.5	348.5
47.5°	329.2	331.3	331.8	331.7	331.8	331.3	329.2	328.2	326.4	324.9	324.7
50°	313.6	312.8	314.0	313.6	314.0	312.8	313.6	311.5	308.8	308.8	308.0
52.5°	294.4	294.6	294.5	294.1	294.5	294.6	294.4	293.4	292.2	290.9	290.4
55°	264.8	265.2	264.5	264.8	264.5	265.2	264.8	264.5	264.5	263.7	264.5
57.5°	232.8	230.9	231.7	230.8	231.7	230.9	232.8	234.5	235.1	235.3	236.4
60°	209.8	206.7	205.9	204.3	205.9	206.7	209.8	213.8	215.3	216.1	217.3
62.5°	184.0	181.9	179.2	180.5	179.2	181.9	184.0	188.2	191.8	194.4	197.1
65°	149.7	148.1	146.9	148.6	146.9	148.1	149.7	152.9	156.0	162.3	168.1
67.5°	123.9	123.1	123.1	122.3	123.1	123.1	123.9	125.5	127.4	130.9	136.4
70°	110.4	109.3	109.3	108.5	109.3	109.3	110.4	110.4	112.4	113.9	117.9
72.5°	96.5	95.4	95.7	95.2	95.7	95.4	96.5	96.8	98.9	99.5	101.2
75°	71.5	69.6	69.6	70.0	69.6	69.6	71.5	73.8	75.8	79.4	80.2
77.5°	53.3	52.9	53.5	52.8	53.5	52.9	53.3	53.3	53.7	55.4	56.8
80°	43.6	43.2	42.8	44.0	42.8	43.2	43.6	43.6	44.0	44.4	44.8
82.5°	33.8	33.8	33.7	35.2	33.7	33.8	33.8	34.5	34.5	34.3	34.7
85°	20.4	19.7	20.4	19.7	20.4	19.7	20.4	20.0	20.4	20.0	20.4
87.5°	10.5	10.4	9.9	10.2	9.9	10.4	10.5	9.8	9.8	10.2	9.8
90°	16.6	17.4	16.6	16.6	16.6	17.4	16.6	15.8	15.8	15.0	14.2
92.5°	67.8	63.5	60.8	60.8	60.8	63.5	67.8	77.1	92.9	116.7	155.1
95°	241.7	217.1	203.0	192.7	203.0	217.1	241.7	280.3	356.9	462.7	585.1
97.5°	602.7	555.1	531.4	515.0	531.4	555.1	602.7	659.3	741.7	819.0	864.4
100°	802.2	754.1	730.4	724.1	730.4	754.1	802.2	871.0	929.4	968.1	952.3
102.5°	971.0	936.0	911.1	906.1	911.1	936.0	971.0	1013.1	1037.4	1026.2	947.9
105°	1133.2	1126.8	1115.8	1111.1	1115.8	1126.8	1133.2	1131.6	1099.1	1021.0	884.4
107.5°	1159.2	1177.2	1185.1	1187.1	1185.1	1177.2	1159.2	1120.1	1049.8	939.7	794.3
110°	1133.9	1167.1	1181.3	1188.4	1181.3	1167.1	1133.9	1077.8	991.0	876.5	739.9



TEST NUMBER: P332909-840

CATALOG NUMBER: SA4XXRDIP-C575D810U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1079.5	1119.7	1139.6	1151.1	1139.6	1119.7	1079.5	1015.9	929.1	820.9	700.1
115°	987.8	1035.2	1060.5	1066.8	1060.5	1035.2	987.8	925.4	849.6	757.3	660.1
117.5°	911.1	950.9	976.4	981.4	976.4	950.9	911.1	857.9	793.6	720.9	640.6
120°	869.4	904.1	924.6	933.3	924.6	904.1	869.4	824.4	768.3	705.2	631.7
122.5°	839.7	869.4	886.8	895.4	886.8	869.4	839.7	801.6	752.6	695.0	624.1
125°	808.6	831.5	846.5	851.2	846.5	831.5	808.6	777.0	733.6	679.1	611.2
127.5°	787.6	808.0	820.6	825.4	820.6	808.0	787.6	755.9	714.6	660.2	595.4
130°	773.1	792.8	805.5	810.2	805.5	792.8	773.1	740.6	698.8	645.1	582.8
132.5°	754.1	776.4	788.4	793.1	788.4	776.4	754.1	722.4	680.5	628.0	569.5
135°	721.8	743.9	756.5	761.2	756.5	743.9	721.8	690.1	650.7	602.5	551.2
137.5°	683.8	705.6	716.0	721.8	716.0	705.6	683.8	654.3	618.6	578.0	534.6
140°	658.5	675.9	687.0	693.3	687.0	675.9	658.5	631.0	597.7	562.2	525.1
142.5°	632.7	648.7	658.5	663.0	658.5	648.7	632.7	608.1	579.5	549.0	516.2
145°	596.2	609.6	617.5	621.5	617.5	609.6	596.2	576.4	554.3	530.7	503.8
147.5°	565.7	577.2	583.2	584.6	583.2	577.2	565.7	551.2	533.8	514.8	493.5
150°	548.1	558.3	563.0	563.8	563.0	558.3	548.1	535.3	521.2	505.3	487.2
152.5°	532.8	541.2	544.0	544.8	544.0	541.2	532.8	522.1	510.4	495.8	480.3
155°	511.7	518.0	520.4	520.4	520.4	518.0	511.7	503.8	494.3	482.5	469.8
157.5°	492.7	497.5	498.9	498.9	498.9	497.5	492.7	486.8	479.2	469.2	458.6
160°	480.1	484.8	485.6	485.6	485.6	484.8	480.1	475.3	469.1	460.4	451.7
162.5°	468.1	472.8	473.6	473.0	473.6	472.8	468.1	464.6	459.0	452.1	444.7
165°	452.4	455.7	454.8	454.0	454.8	455.7	452.4	449.3	445.4	439.8	435.0
167.5°	437.8	439.8	439.7	439.0	439.7	439.8	437.8	436.2	433.8	429.4	425.8
170°	429.6	430.3	429.6	429.6	429.6	430.3	429.6	428.0	425.7	422.4	420.1
172.5°	421.3	422.1	421.3	420.1	421.3	422.1	421.3	420.4	418.7	416.8	415.1
175°	410.6	412.2	410.6	409.0	410.6	412.2	410.6	410.6	410.6	409.0	408.3
177.5°	404.5	405.1	403.8	402.5	403.8	405.1	404.5	405.1	404.5	404.5	403.8
180°	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9



TEST NUMBER: P332909-840

CATALOG NUMBER: SA4XXRDIP-C575D810U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2
2.5°	932.8	935.0	940.0	945.6	950.4	954.5	957.7	962.0	966.1	971.8	977.1
5°	876.2	881.7	889.6	899.0	910.8	918.7	928.5	937.2	949.7	962.3	974.4
7.5°	826.6	832.6	844.1	857.2	871.2	884.0	895.6	910.9	927.6	945.9	966.3
10°	794.5	801.1	815.0	829.8	846.4	858.9	874.6	892.7	911.6	933.9	959.1
12.5°	765.6	771.9	788.5	803.8	820.9	834.8	852.9	871.3	896.5	920.8	949.4
15°	709.2	726.1	745.0	763.1	783.5	800.4	822.3	841.2	865.3	899.4	932.0
17.5°	646.6	664.7	688.1	716.0	743.4	764.3	786.6	810.0	838.6	873.4	911.1
20°	610.2	624.7	650.7	681.8	713.6	742.7	763.1	789.0	818.5	856.2	895.0
22.5°	582.9	595.2	615.5	646.5	680.9	714.7	740.7	766.4	799.0	836.7	879.1
25°	541.8	555.2	572.9	594.1	633.4	669.1	703.4	732.8	767.4	805.1	852.2
27.5°	507.8	519.4	535.5	557.6	584.0	623.5	664.9	698.5	734.0	774.5	821.6
30°	487.6	497.1	510.4	532.8	558.0	593.3	635.3	674.7	710.4	752.5	801.5
32.5°	466.6	476.7	489.7	507.4	534.3	564.1	606.1	649.1	687.1	730.1	778.3
35°	438.5	446.4	458.2	476.3	500.6	526.5	563.8	608.2	648.3	694.3	740.2
37.5°	410.1	419.4	428.7	444.7	464.7	492.6	523.2	568.6	613.0	654.9	699.8
40°	394.0	399.6	409.8	422.8	444.0	468.8	497.5	541.8	586.2	627.9	673.1
42.5°	376.2	382.3	390.9	403.9	422.9	447.1	475.1	513.5	559.9	600.3	641.4
45°	351.2	354.8	363.5	374.5	390.2	414.5	440.5	474.6	518.3	556.7	592.9
47.5°	326.1	329.2	334.6	344.7	362.2	381.8	406.2	436.8	475.0	513.5	544.1
50°	308.8	311.5	316.7	326.1	341.8	361.1	385.1	412.5	446.8	483.7	509.2
52.5°	291.5	293.1	297.8	308.5	321.7	340.6	362.1	387.4	419.4	450.1	475.9
55°	264.1	267.6	270.7	278.6	291.1	309.2	328.5	352.4	377.2	403.1	425.2
57.5°	235.4	239.2	243.8	250.6	260.6	277.5	294.8	314.2	335.3	356.9	375.3
60°	216.5	220.0	224.0	231.9	240.9	254.2	273.1	289.9	306.1	325.7	344.2
62.5°	197.9	201.5	206.0	212.4	221.1	233.8	249.5	264.2	280.9	298.1	311.8
65°	170.6	173.3	176.8	182.7	191.0	202.4	215.3	226.7	241.7	254.2	266.8
67.5°	140.5	145.7	150.4	155.1	162.1	172.7	182.1	193.0	203.2	212.5	224.0
70°	120.6	126.5	130.9	135.9	142.6	151.7	160.7	168.1	176.4	185.4	195.7
72.5°	104.0	108.6	112.0	117.4	123.4	131.9	140.3	146.4	153.2	159.4	169.3
75°	82.1	84.1	86.4	90.8	96.2	102.6	109.3	114.7	118.7	124.1	131.3
77.5°	59.0	62.8	64.3	67.5	71.4	75.2	79.7	84.3	88.1	90.1	95.4
80°	45.1	46.8	48.4	52.6	55.0	59.0	62.1	66.4	68.0	70.0	75.0
82.5°	35.1	36.1	37.1	38.2	39.6	43.5	46.7	49.4	51.0	51.7	55.5
85°	20.4	20.8	21.2	21.6	22.0	22.0	23.5	25.5	28.3	28.3	29.5
87.5°	9.6	10.1	9.8	9.1	9.8	8.8	9.1	9.0	9.8	10.2	10.8
90°	13.4	14.2	12.6	11.0	11.0	6.4	6.4	5.6	4.7	2.3	0.8
92.5°	208.6	250.4	219.2	159.5	98.3	58.1	41.7	30.2	20.5	13.1	9.0
95°	661.8	643.6	485.6	296.9	167.4	98.7	65.5	46.6	36.4	28.4	26.1
97.5°	831.3	677.8	454.5	266.9	160.0	107.0	79.3	63.0	53.5	46.8	46.8
100°	837.0	634.9	412.2	251.2	161.9	115.3	90.0	75.0	65.5	60.0	60.0
102.5°	789.6	581.2	383.7	246.7	168.1	126.0	102.0	87.7	78.8	73.9	72.6
105°	703.6	518.0	359.3	248.7	183.2	145.3	122.4	108.2	98.7	94.7	92.4
107.5°	634.1	482.6	354.9	260.4	200.8	166.0	143.4	129.8	119.7	115.7	114.2
110°	599.4	470.6	356.1	269.2	214.0	179.3	157.9	143.7	134.2	130.3	128.8



TEST NUMBER: P332909-840

CATALOG NUMBER: SA4XXRDIP-C575D810U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	579.8	464.9	359.9	278.7	226.6	193.2	171.8	157.6	148.8	144.2	142.6
115°	561.4	461.9	367.2	293.8	246.4	214.8	193.5	178.4	170.6	165.0	162.7
117.5°	553.2	461.1	375.0	309.0	265.5	235.5	213.4	199.3	190.7	185.7	183.5
120°	548.8	461.1	380.6	319.8	278.7	248.7	226.6	213.2	204.5	198.9	197.4
122.5°	543.7	460.5	386.3	329.9	291.3	261.4	239.8	225.2	217.1	211.7	210.1
125°	535.3	459.6	394.9	345.1	308.7	280.3	258.2	243.2	234.5	229.7	226.6
127.5°	524.1	457.9	401.6	358.2	324.9	297.4	275.1	259.4	249.5	243.9	241.4
130°	517.3	457.2	406.7	366.4	335.6	308.7	285.9	270.8	259.0	252.7	249.5
132.5°	510.9	456.6	411.1	374.6	344.5	317.6	296.0	279.7	268.5	260.2	257.7
135°	501.4	455.7	417.7	385.4	356.9	330.8	310.3	293.8	280.3	272.5	269.2
137.5°	493.2	455.4	421.6	392.9	366.4	342.0	322.4	305.3	292.5	283.8	280.8
140°	488.8	454.8	424.9	398.0	372.7	349.0	330.0	313.5	300.0	291.3	289.0
142.5°	485.0	454.8	427.4	401.7	378.4	355.4	337.0	321.0	308.3	300.2	297.8
145°	478.5	453.2	428.8	405.9	384.6	364.1	346.7	331.6	320.6	312.7	310.3
147.5°	472.7	450.4	429.6	409.5	390.9	371.6	356.0	343.5	332.1	325.2	324.4
150°	468.3	448.5	429.6	411.4	394.0	376.7	361.6	349.8	340.3	334.1	333.3
152.5°	463.2	445.4	428.3	412.6	396.6	381.1	367.4	356.8	347.9	341.6	341.4
155°	455.7	440.6	426.4	413.7	400.3	386.9	375.1	366.4	358.5	353.8	352.9
157.5°	447.9	435.8	424.3	413.7	403.0	391.6	382.3	374.8	368.6	364.2	364.2
160°	442.2	431.9	422.4	413.7	404.2	394.9	386.2	379.8	374.3	371.1	371.1
162.5°	437.2	428.2	420.6	413.7	405.6	396.7	389.9	384.3	379.3	376.8	377.5
165°	428.8	422.4	417.0	412.2	405.9	398.8	394.0	390.1	386.2	384.6	384.6
167.5°	421.2	416.8	413.1	410.3	405.8	400.5	396.9	394.7	391.6	390.9	391.6
170°	416.2	412.9	410.6	409.0	405.1	401.1	398.8	397.2	394.9	394.0	394.9
172.5°	411.7	409.2	408.1	407.8	404.5	401.7	400.0	399.1	397.4	397.2	398.0
175°	406.7	405.1	405.1	405.9	403.5	401.9	401.9	401.1	400.3	400.3	401.1
177.5°	403.1	402.5	402.5	403.8	402.5	401.9	401.9	401.9	401.3	401.9	402.5
180°	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9



TEST NUMBER: P332909-840
 CATALOG NUMBER: SA4XXRDIP-C575D810U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2	975.2
2.5°	981.2	984.0	987.1	993.1	998.2	1000.4	1004.8	1007.9	1006.9	1011.4	1019.0
5°	985.0	995.6	1007.8	1020.4	1034.5	1046.3	1055.8	1065.2	1072.7	1081.7	1095.1
7.5°	984.4	1003.3	1023.8	1046.3	1069.5	1089.5	1108.1	1127.0	1143.7	1162.1	1186.0
10°	981.9	1007.0	1032.6	1062.1	1091.6	1119.4	1144.6	1168.1	1190.5	1214.5	1244.8
12.5°	979.1	1007.9	1038.8	1074.3	1111.1	1144.6	1174.2	1208.1	1236.1	1267.0	1302.0
15°	966.5	1005.5	1047.5	1093.5	1137.5	1182.7	1223.1	1264.9	1303.7	1340.6	1384.6
17.5°	952.3	997.1	1046.7	1101.1	1154.0	1208.8	1256.9	1309.4	1349.1	1398.7	1439.6
20°	940.7	989.0	1042.0	1102.9	1163.1	1224.0	1277.0	1330.4	1375.2	1425.1	1477.0
22.5°	926.6	979.6	1037.0	1100.0	1163.1	1229.6	1288.3	1341.4	1396.9	1453.1	1506.5
25°	903.7	958.8	1019.7	1088.7	1161.0	1229.0	1291.9	1358.0	1417.6	1478.5	1526.5
27.5°	875.8	933.5	997.7	1069.0	1143.3	1212.8	1286.9	1357.3	1417.3	1475.9	1517.7
30°	853.4	914.3	976.0	1048.3	1125.3	1200.0	1279.3	1349.7	1412.9	1465.6	1489.1
32.5°	830.5	888.3	951.8	1025.0	1104.0	1184.3	1263.0	1334.9	1393.4	1425.0	1425.6
35°	790.5	844.8	910.8	982.7	1063.6	1150.8	1230.6	1301.3	1337.1	1339.9	1301.3
37.5°	747.0	796.8	859.1	931.1	1019.7	1106.5	1187.9	1235.1	1247.1	1207.1	1135.9
40°	715.9	761.8	822.0	895.9	983.9	1073.5	1147.7	1182.2	1169.7	1104.9	1025.5
42.5°	683.2	726.0	784.0	856.9	945.2	1035.7	1099.0	1117.5	1084.2	1009.4	916.5
45°	629.9	669.1	726.5	800.0	884.8	969.8	1017.6	1008.2	952.8	864.0	759.9
47.5°	574.3	612.3	663.9	731.8	818.8	892.0	924.4	896.1	817.2	719.5	634.8
50°	537.6	576.4	624.0	688.8	768.2	838.9	859.7	816.5	728.8	635.0	557.1
52.5°	501.4	534.6	581.2	643.8	719.7	779.5	790.5	740.7	650.3	566.1	497.2
55°	446.4	476.7	515.9	574.8	640.5	691.2	685.3	621.2	539.1	467.2	412.9
57.5°	393.1	416.0	452.2	507.5	565.1	599.2	577.5	523.0	446.5	387.6	341.8
60°	358.0	379.2	412.9	461.3	512.0	531.2	513.1	453.8	393.3	339.5	300.9
62.5°	324.7	343.4	372.4	417.3	458.2	469.6	450.3	398.5	344.0	298.0	266.1
65°	276.2	293.5	318.3	350.1	378.4	383.8	371.3	318.3	277.0	238.5	216.5
67.5°	232.3	243.6	263.0	290.4	305.5	308.7	284.4	251.1	214.7	191.1	174.5
70°	202.8	210.6	228.6	243.6	255.8	256.2	233.8	207.0	179.2	160.0	147.7
72.5°	174.1	181.7	195.4	205.6	214.9	211.9	191.4	170.3	147.7	133.2	124.1
75°	134.4	141.1	148.1	152.9	152.9	149.0	134.0	118.3	105.3	96.6	93.9
77.5°	97.7	103.2	105.5	104.8	103.4	97.3	87.9	77.6	72.9	68.9	66.8
80°	76.6	79.0	79.8	77.8	75.4	68.4	62.1	57.8	53.4	51.9	51.1
82.5°	56.9	58.9	56.9	57.4	52.2	46.4	42.9	41.4	39.6	39.0	38.2
85°	30.3	29.9	29.1	27.1	23.5	22.8	22.4	22.0	21.2	21.6	20.8
87.5°	10.8	10.4	9.3	9.1	9.1	9.4	9.8	10.1	10.4	9.9	10.7
90°	2.3	4.7	5.6	6.4	6.4	11.0	11.0	12.6	14.2	13.4	14.2
92.5°	13.1	20.5	30.2	41.7	58.1	98.3	159.5	219.2	250.4	208.6	155.1
95°	28.4	36.4	46.6	65.5	98.7	167.4	296.9	485.6	643.6	661.8	585.1
97.5°	46.8	53.5	63.0	79.3	107.0	160.0	266.9	454.5	677.8	831.3	864.4
100°	60.0	65.5	75.0	90.0	115.3	161.9	251.2	412.2	634.9	837.0	952.3
102.5°	73.9	78.8	87.7	102.0	126.0	168.1	246.7	383.7	581.2	789.6	947.9
105°	94.7	98.7	108.2	122.4	145.3	183.2	248.7	359.3	518.0	703.6	884.4
107.5°	115.7	119.7	129.8	143.4	166.0	200.8	260.4	354.9	482.6	634.1	794.3
110°	130.3	134.2	143.7	157.9	179.3	214.0	269.2	356.1	470.6	599.4	739.9



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	144.2	148.8	157.6	171.8	193.2	226.6	278.7	359.9	464.9	579.8	700.1
115°	165.0	170.6	178.4	193.5	214.8	246.4	293.8	367.2	461.9	561.4	660.1
117.5°	185.7	190.7	199.3	213.4	235.5	265.5	309.0	375.0	461.1	553.2	640.6
120°	198.9	204.5	213.2	226.6	248.7	278.7	319.8	380.6	461.1	548.8	631.7
122.5°	211.7	217.1	225.2	239.8	261.4	291.3	329.9	386.3	460.5	543.7	624.1
125°	229.7	234.5	243.2	258.2	280.3	308.7	345.1	394.9	459.6	535.3	611.2
127.5°	243.9	249.5	259.4	275.1	297.4	324.9	358.2	401.6	457.9	524.1	595.4
130°	252.7	259.0	270.8	285.9	308.7	335.6	366.4	406.7	457.2	517.3	582.8
132.5°	260.2	268.5	279.7	296.0	317.6	344.5	374.6	411.1	456.6	510.9	569.5
135°	272.5	280.3	293.8	310.3	330.8	356.9	385.4	417.7	455.7	501.4	551.2
137.5°	283.8	292.5	305.3	322.4	342.0	366.4	392.9	421.6	455.4	493.2	534.6
140°	291.3	300.0	313.5	330.0	349.0	372.7	398.0	424.9	454.8	488.8	525.1
142.5°	300.2	308.3	321.0	337.0	355.4	378.4	401.7	427.4	454.8	485.0	516.2
145°	312.7	320.6	331.6	346.7	364.1	384.6	405.9	428.8	453.2	478.5	503.8
147.5°	325.2	332.1	343.5	356.0	371.6	390.9	409.5	429.6	450.4	472.7	493.5
150°	334.1	340.3	349.8	361.6	376.7	394.0	411.4	429.6	448.5	468.3	487.2
152.5°	341.6	347.9	356.8	367.4	381.1	396.6	412.6	428.3	445.4	463.2	480.3
155°	353.8	358.5	366.4	375.1	386.9	400.3	413.7	426.4	440.6	455.7	469.8
157.5°	364.2	368.6	374.8	382.3	391.6	403.0	413.7	424.3	435.8	447.9	458.6
160°	371.1	374.3	379.8	386.2	394.9	404.2	413.7	422.4	431.9	442.2	451.7
162.5°	376.8	379.3	384.3	389.9	396.7	405.6	413.7	420.6	428.2	437.2	444.7
165°	384.6	386.2	390.1	394.0	398.8	405.9	412.2	417.0	422.4	428.8	435.0
167.5°	390.9	391.6	394.7	396.9	400.5	405.8	410.3	413.1	416.8	421.2	425.8
170°	394.0	394.9	397.2	398.8	401.1	405.1	409.0	410.6	412.9	416.2	420.1
172.5°	397.2	397.4	399.1	400.0	401.7	404.5	407.8	408.1	409.2	411.7	415.1
175°	400.3	400.3	401.1	401.9	401.9	403.5	405.9	405.1	405.1	406.7	408.3
177.5°	401.9	401.3	401.9	401.9	401.9	402.5	403.8	402.5	402.5	403.1	403.8
180°	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9	401.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	975.2	975.2	975.2	975.2	975.2	975.2	975.2
2.5°	1023.0	1024.3	1025.2	1028.3	1028.6	1031.5	1028.6
5°	1107.6	1113.2	1121.8	1130.4	1131.3	1136.7	1126.9
7.5°	1202.5	1215.3	1223.2	1237.2	1242.7	1246.2	1240.5
10°	1268.0	1279.7	1300.6	1310.8	1321.0	1322.5	1317.9
12.5°	1331.1	1349.8	1366.2	1385.6	1385.1	1399.0	1393.9
15°	1415.3	1434.5	1457.3	1478.9	1486.8	1486.8	1493.1
17.5°	1475.3	1510.7	1534.2	1551.2	1569.7	1573.0	1570.7
20°	1515.9	1554.0	1579.1	1601.1	1613.8	1617.3	1617.3
22.5°	1546.1	1578.5	1603.1	1622.9	1633.3	1637.4	1636.1
25°	1567.0	1594.9	1609.8	1615.7	1618.4	1617.6	1610.2
27.5°	1538.3	1537.1	1527.6	1509.5	1496.0	1487.7	1478.3
30°	1483.7	1463.2	1439.7	1413.7	1380.3	1354.7	1347.0
32.5°	1402.3	1356.3	1316.5	1273.2	1237.3	1211.7	1201.0
35°	1244.8	1172.0	1112.8	1060.9	1023.2	999.6	991.7
37.5°	1057.9	987.5	914.1	863.8	832.5	808.7	799.8
40°	939.1	862.4	798.4	751.2	719.0	695.9	695.5
42.5°	830.6	757.5	697.2	663.3	628.5	613.2	613.1
45°	680.1	621.6	570.5	543.8	523.0	510.4	506.9
47.5°	563.1	514.7	480.7	459.4	442.4	434.4	429.2
50°	497.5	455.0	427.9	409.4	400.0	389.8	389.0
52.5°	442.7	408.5	387.4	372.3	360.4	354.3	354.5
55°	372.1	345.0	330.0	318.6	309.2	304.5	302.6
57.5°	313.5	293.2	282.3	271.9	267.8	264.1	263.1
60°	277.0	263.3	253.1	244.8	238.9	237.7	237.3
62.5°	246.8	232.5	225.4	219.0	214.7	212.9	212.2
65°	203.5	192.9	186.6	181.6	180.0	177.2	176.8
67.5°	164.1	157.7	153.6	150.1	147.8	147.7	147.7
70°	139.9	136.3	132.8	130.9	129.7	128.9	128.9
72.5°	119.2	116.5	113.6	112.6	112.4	111.6	111.3
75°	90.8	88.1	88.4	86.4	84.8	82.9	81.7
77.5°	64.3	62.4	62.0	61.8	60.4	60.2	60.8
80°	49.9	48.0	47.6	48.0	47.6	46.4	46.4
82.5°	38.0	36.4	36.0	35.6	35.2	35.6	35.0
85°	20.4	19.7	19.7	19.7	20.4	20.0	19.7
87.5°	10.2	10.1	10.4	10.2	10.4	9.9	10.2
90°	15.0	15.8	15.8	16.6	17.4	16.6	16.6
92.5°	116.7	92.9	77.1	67.8	63.5	60.8	60.8
95°	462.7	356.9	280.3	241.7	217.1	203.0	192.7
97.5°	819.0	741.7	659.3	602.7	555.1	531.4	515.0
100°	968.1	929.4	871.0	802.2	754.1	730.4	724.1
102.5°	1026.2	1037.4	1013.1	971.0	936.0	911.1	906.1
105°	1021.0	1099.1	1131.6	1133.2	1126.8	1115.8	1111.1
107.5°	939.7	1049.8	1120.1	1159.2	1177.2	1185.1	1187.1
110°	876.5	991.0	1077.8	1133.9	1167.1	1181.3	1188.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	820.9	929.1	1015.9	1079.5	1119.7	1139.6	1151.1
115°	757.3	849.6	925.4	987.8	1035.2	1060.5	1066.8
117.5°	720.9	793.6	857.9	911.1	950.9	976.4	981.4
120°	705.2	768.3	824.4	869.4	904.1	924.6	933.3
122.5°	695.0	752.6	801.6	839.7	869.4	886.8	895.4
125°	679.1	733.6	777.0	808.6	831.5	846.5	851.2
127.5°	660.2	714.6	755.9	787.6	808.0	820.6	825.4
130°	645.1	698.8	740.6	773.1	792.8	805.5	810.2
132.5°	628.0	680.5	722.4	754.1	776.4	788.4	793.1
135°	602.5	650.7	690.1	721.8	743.9	756.5	761.2
137.5°	578.0	618.6	654.3	683.8	705.6	716.0	721.8
140°	562.2	597.7	631.0	658.5	675.9	687.0	693.3
142.5°	549.0	579.5	608.1	632.7	648.7	658.5	663.0
145°	530.7	554.3	576.4	596.2	609.6	617.5	621.5
147.5°	514.8	533.8	551.2	565.7	577.2	583.2	584.6
150°	505.3	521.2	535.3	548.1	558.3	563.0	563.8
152.5°	495.8	510.4	522.1	532.8	541.2	544.0	544.8
155°	482.5	494.3	503.8	511.7	518.0	520.4	520.4
157.5°	469.2	479.2	486.8	492.7	497.5	498.9	498.9
160°	460.4	469.1	475.3	480.1	484.8	485.6	485.6
162.5°	452.1	459.0	464.6	468.1	472.8	473.6	473.0
165°	439.8	445.4	449.3	452.4	455.7	454.8	454.0
167.5°	429.4	433.8	436.2	437.8	439.8	439.7	439.0
170°	422.4	425.7	428.0	429.6	430.3	429.6	429.6
172.5°	416.8	418.7	420.4	421.3	422.1	421.3	420.1
175°	409.0	410.6	410.6	410.6	412.2	410.6	409.0
177.5°	404.5	404.5	405.1	404.5	405.1	403.8	402.5
180°	401.9	401.9	401.9	401.9	401.9	401.9	401.9

(END OF REPORT)