

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: P332902-940

Luminaire Tested: **SA4XXRDIP-C575D590U940-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332902-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA4XXRDIP-C575D590U940-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 575 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 590 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

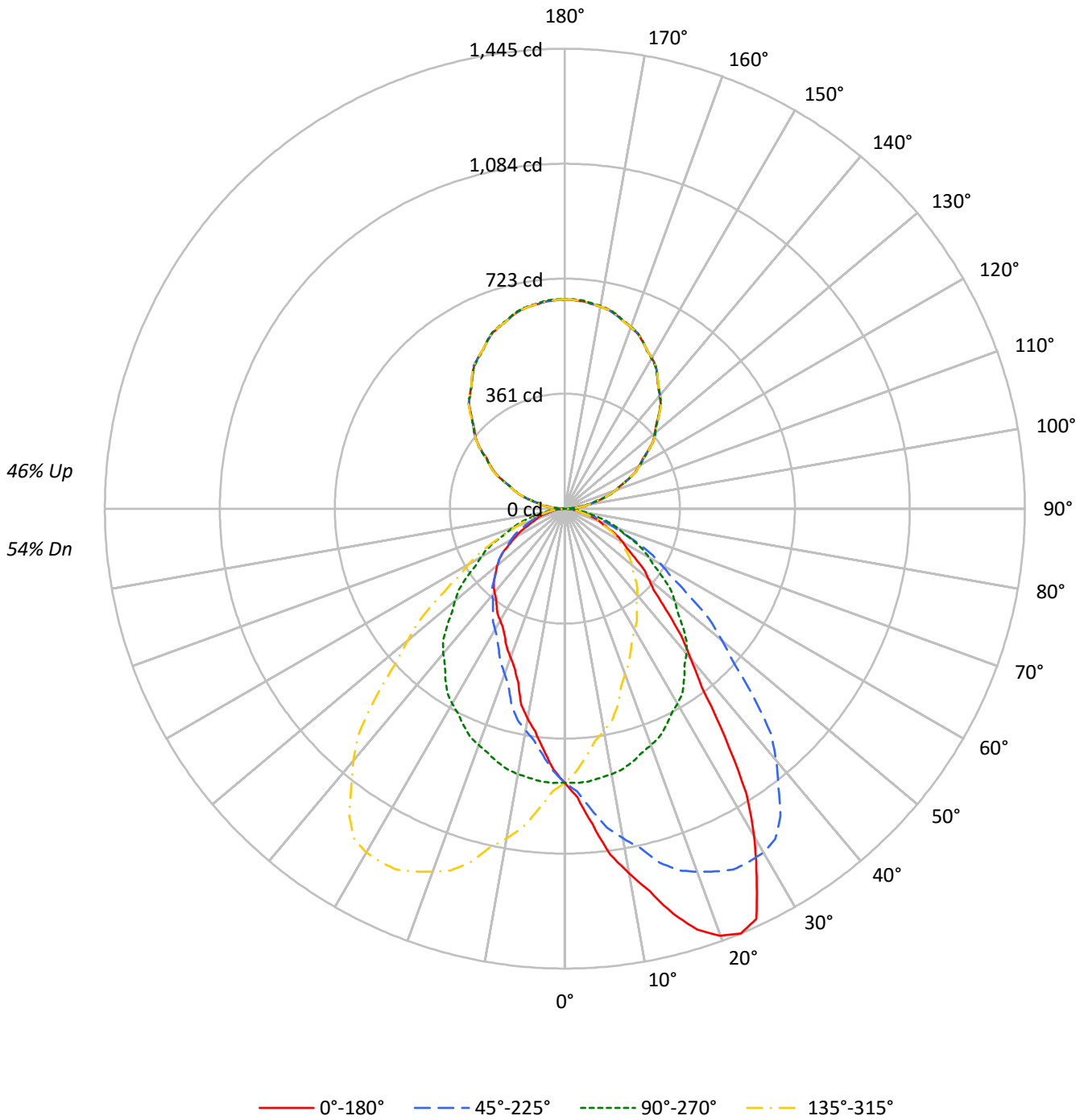
Lumens per Lamp: N/A
Luminaire Lumens: 4003.2 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

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



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	108	108	108	108	100	100	100	100	86	86	86	72	72	72	60	60	60	54	54	54	54	
1	99	95	91	88	92	88	85	82	76	74	72	65	63	61	54	53	52	47	47	47	47	
2	91	84	78	73	84	78	73	68	67	63	60	57	54	52	48	46	44	40	40	40	40	
3	83	74	67	61	77	69	63	58	60	55	51	51	48	45	43	40	38	34	34	34	34	
4	76	66	58	52	71	61	55	49	53	48	44	46	42	39	39	36	33	30	30	30	30	
5	70	59	51	45	65	55	48	43	48	42	38	41	37	34	35	32	29	26	26	26	26	
6	65	53	45	39	60	50	42	37	43	38	33	37	33	30	32	29	26	23	23	23	23	
7	60	48	40	35	56	45	38	33	39	34	30	34	30	26	29	26	23	21	21	21	21	
8	56	44	36	31	52	41	34	29	36	30	26	31	27	24	27	24	21	19	19	19	19	
9	52	40	32	27	48	38	31	26	33	28	24	29	25	21	25	22	19	17	17	17	17	
10	49	37	29	25	45	35	28	24	31	25	22	27	22	19	23	20	17	15	15	15	15	

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6952	6952	6952	6952
5°	8064	6972	6163	6972
10°	9539	6942	5501	6942
15°	11019	6878	4726	6878
20°	12269	6790	4274	6790
25°	12665	6703	3968	6703
30°	11087	6598	3784	6598
35°	8630	6441	3672	6441
40°	6472	6263	3613	6263
45°	5109	5977	3580	5977
50°	4314	5647	3478	5647
55°	3761	5284	3291	5284
60°	3384	4907	2913	4907
65°	2982	4500	2506	4500
70°	2686	4079	2261	4079
75°	2249	3615	1928	3615
80°	1901	3082	1808	3082
85°	1612	2408	1612	2408



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.4	2.1
10°-20°	251.7	6.3
20°-30°	393.7	9.8
30°-40°	437.6	10.9
40°-50°	388.3	9.7
50°-60°	302.5	7.6
60°-70°	198.1	4.9
70°-80°	97.4	2.4
80°-90°	26.0	0.6
90°-100°	43.4	1.1
100°-110°	128.5	3.2
110°-120°	218.1	5.4
120°-130°	287.6	7.2
130°-140°	322.9	8.1
140°-150°	317.3	7.9
150°-160°	266.9	6.7
160°-170°	177.6	4.4
170°-180°	62.2	1.6
0°-30°	728.8	18.2
0°-40°	1166.4	29.1
0°-60°	1857.2	46.4
0°-90°	2178.7	54.4
90°-120°	389.9	9.7
90°-150°	1317.8	32.9
90°-180°	1824.0	45.6
0°-180°	4003.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	861	861	861	861	861	
5°	995	860	760	860	995	101
15°	1318	823	566	823	1318	375
25°	1422	752	446	752	1422	631
35°	876	654	373	654	876	549
45°	448	524	314	524	448	354
55°	267	375	234	375	267	243
65°	156	236	131	236	156	157
75°	72	116	62	116	72	79
85°	17	26	17	26	17	20
90°	15	2	15	2	15	9
95°	40	30	40	30	40	42
105°	124	118	124	118	124	131
115°	220	222	220	222	220	217
125°	320	323	320	323	320	286
135°	417	416	417	416	417	322
145°	507	506	507	506	507	317
155°	579	580	579	580	579	267
165°	630	631	630	631	630	177
175°	654	657	654	657	654	62
180°	658	658	658	658	658	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1
2.5°	908.3	910.8	908.3	908.0	905.3	904.5	903.3	899.7	893.0	889.1	890.0
5°	995.1	1003.7	998.9	998.2	990.5	982.9	978.0	967.0	955.1	947.2	940.6
7.5°	1095.4	1100.4	1097.3	1092.4	1080.1	1073.1	1061.8	1047.2	1026.1	1009.9	995.1
10°	1163.7	1167.8	1166.4	1157.4	1148.4	1130.0	1119.6	1099.1	1072.4	1051.2	1031.4
12.5°	1230.8	1235.3	1223.1	1223.5	1206.4	1191.9	1175.4	1149.7	1118.7	1091.5	1066.8
15°	1318.4	1312.9	1312.9	1305.9	1286.8	1266.7	1249.7	1222.6	1183.7	1151.2	1116.9
17.5°	1387.0	1388.9	1386.1	1369.7	1354.7	1333.9	1302.7	1271.1	1235.0	1191.2	1156.2
20°	1428.1	1428.1	1425.0	1413.8	1394.4	1372.2	1338.5	1304.2	1258.4	1214.3	1174.7
22.5°	1444.7	1445.8	1442.2	1433.0	1415.5	1393.8	1365.2	1330.3	1283.1	1233.5	1184.5
25°	1421.8	1428.3	1429.1	1426.6	1421.5	1408.3	1383.7	1347.9	1305.6	1251.8	1199.1
27.5°	1305.4	1313.7	1321.0	1332.9	1348.9	1357.3	1358.3	1340.2	1303.2	1251.5	1198.5
30°	1189.4	1196.2	1218.8	1248.3	1271.2	1292.0	1310.1	1314.9	1294.1	1247.6	1191.8
32.5°	1060.5	1070.0	1092.5	1124.3	1162.4	1197.7	1238.2	1258.8	1258.3	1230.4	1178.8
35°	875.7	882.6	903.5	936.7	982.6	1034.9	1099.1	1149.1	1183.1	1180.6	1149.1
37.5°	706.2	714.1	735.1	762.8	807.2	872.0	934.2	1003.0	1065.9	1101.2	1090.6
40°	614.1	614.5	634.9	663.3	705.0	761.5	829.2	905.5	975.6	1032.9	1043.9
42.5°	541.4	541.4	555.0	585.7	615.6	668.9	733.4	809.2	891.3	957.3	986.8
45°	447.5	450.7	461.8	480.2	503.7	548.8	600.6	671.0	762.9	841.3	890.3
47.5°	379.0	383.6	390.7	405.6	424.5	454.5	497.2	560.5	635.3	721.6	791.2
50°	343.5	344.2	353.2	361.5	377.8	401.8	439.3	492.0	560.7	643.5	720.9
52.5°	313.0	312.8	318.3	328.8	342.1	360.7	390.9	439.0	499.9	574.2	654.1
55°	267.2	268.9	273.0	281.3	291.4	304.6	328.6	364.6	412.5	476.0	548.5
57.5°	232.3	233.2	236.5	240.0	249.2	258.9	276.8	301.8	342.2	394.2	461.8
60°	209.6	209.9	211.0	216.2	223.5	232.5	244.6	265.7	299.8	347.3	400.7
62.5°	187.3	188.0	189.6	193.4	199.0	205.3	217.9	235.0	263.1	303.7	351.9
65°	156.1	156.5	158.9	160.3	164.8	170.3	179.7	191.2	210.6	244.6	281.1
67.5°	130.5	130.5	130.5	132.5	135.6	139.3	144.9	154.1	168.7	189.6	221.7
70°	113.8	113.8	114.5	115.6	117.3	120.4	123.5	130.5	141.2	158.2	182.8
72.5°	98.3	98.5	99.2	99.4	100.3	102.9	105.2	109.6	117.6	130.5	150.3
75°	72.1	73.2	74.9	76.3	78.0	77.8	80.2	82.9	85.3	93.0	104.4
77.5°	53.7	53.1	53.3	54.6	54.8	55.1	56.8	58.9	60.8	64.4	68.5
80°	40.9	40.9	42.0	42.4	42.0	42.4	44.1	45.1	45.8	47.2	51.0
82.5°	30.9	31.5	31.1	31.5	31.7	32.1	33.5	33.7	34.4	35.0	36.6
85°	17.4	17.7	18.0	17.4	17.4	17.4	18.0	18.4	19.1	18.7	19.4
87.5°	9.2	8.8	9.1	9.0	9.3	8.9	9.0	9.5	8.7	8.9	8.7
90°	15.2	15.1	14.8	14.6	14.4	13.9	13.2	12.6	11.9	11.1	10.3
92.5°	22.6	22.5	22.3	22.2	22.0	21.8	21.4	21.0	20.5	20.2	19.5
95°	40.2	40.2	40.2	40.2	40.2	40.0	39.7	39.3	39.0	38.6	37.9
97.5°	63.0	63.0	63.0	63.0	63.0	62.8	62.3	62.0	61.5	61.2	60.2
100°	78.8	78.8	78.8	78.8	78.8	78.7	78.5	78.3	78.0	77.8	76.8
102.5°	96.8	96.7	96.6	96.5	96.4	96.1	95.9	95.5	95.2	94.9	94.0
105°	124.1	123.8	123.4	123.1	122.7	122.4	122.1	121.7	121.4	121.0	120.6
107.5°	150.8	150.8	150.8	150.8	150.9	150.7	150.3	150.1	149.7	149.5	149.4
110°	169.9	169.5	169.2	168.9	168.5	168.4	168.7	168.9	169.2	169.3	169.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	189.4	189.3	189.2	189.2	189.1	189.1	189.1	189.2	189.2	189.3	189.5
115°	219.7	219.8	219.9	220.1	220.2	220.3	220.4	220.5	220.6	220.7	221.0
117.5°	248.6	248.8	249.1	249.2	249.5	249.8	250.2	250.6	250.9	251.4	251.5
120°	270.5	270.4	270.1	269.9	269.7	269.8	270.4	271.0	271.5	272.1	272.4
122.5°	288.9	289.3	289.7	290.1	290.5	290.9	291.3	291.7	292.0	292.5	292.6
125°	320.4	320.7	320.8	321.1	321.3	321.6	321.7	322.0	322.2	322.4	322.5
127.5°	349.6	349.8	350.0	350.2	350.4	350.5	350.8	351.0	351.2	351.4	351.6
130°	368.7	369.2	369.6	370.1	370.5	370.9	371.1	371.3	371.6	371.8	371.8
132.5°	389.1	389.2	389.4	389.6	389.8	390.0	390.2	390.5	390.7	390.9	391.0
135°	417.1	417.4	417.7	418.0	418.4	418.7	418.9	419.1	419.4	419.5	419.5
137.5°	446.5	446.4	446.3	446.2	446.1	446.3	446.6	446.8	447.2	447.5	447.3
140°	464.3	464.5	464.6	464.7	464.8	464.9	465.0	465.1	465.2	465.4	465.4
142.5°	482.2	482.2	482.3	482.3	482.3	482.3	482.4	482.4	482.4	482.4	482.5
145°	506.6	506.8	507.2	507.6	507.9	508.1	508.3	508.4	508.5	508.5	508.5
147.5°	531.2	531.3	531.4	531.5	531.6	531.7	531.8	531.9	532.0	532.1	532.2
150°	546.3	546.4	546.4	546.5	546.7	546.7	546.7	546.7	546.7	546.7	546.7
152.5°	560.1	560.4	560.6	561.0	561.2	561.2	561.0	560.7	560.4	560.2	560.1
155°	579.3	579.7	580.1	580.6	581.1	581.1	580.6	580.1	579.7	579.3	579.4
157.5°	596.5	596.8	597.3	597.6	598.0	598.1	597.7	597.4	597.0	596.6	596.7
160°	606.3	606.8	607.3	608.0	608.5	608.6	608.2	608.0	607.6	607.3	607.3
162.5°	616.4	617.0	617.5	618.1	618.7	618.7	618.0	617.4	616.8	616.2	616.4
165°	629.6	630.1	630.5	631.0	631.4	631.3	630.6	630.0	629.3	628.7	628.8
167.5°	639.1	639.8	640.5	641.2	641.9	641.9	641.2	640.5	639.9	639.2	639.2
170°	644.4	645.2	646.0	646.8	647.6	647.6	646.9	646.2	645.6	644.9	644.8
172.5°	648.9	649.6	650.4	651.2	652.0	652.0	651.3	650.5	649.7	649.0	648.9
175°	653.5	654.3	655.1	655.9	656.7	656.7	655.9	655.1	654.3	653.5	653.6
177.5°	655.9	656.7	657.5	658.2	658.9	658.9	658.3	657.6	657.0	656.4	656.4
180°	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1
2.5°	887.3	883.3	881.4	876.9	871.6	868.9	866.4	862.8	858.1	853.1	849.4
5°	932.3	923.9	913.5	901.0	889.9	879.1	869.8	860.4	849.7	838.6	827.5
7.5°	978.5	962.1	944.4	923.9	904.0	885.9	869.2	853.3	835.3	819.0	804.3
10°	1010.7	988.5	963.9	937.8	911.8	889.2	867.0	846.9	824.7	804.9	788.3
12.5°	1036.8	1010.7	981.1	948.6	917.3	890.0	864.5	838.3	813.1	791.6	769.4
15°	1080.0	1044.3	1004.4	965.5	925.0	887.9	853.5	823.0	794.2	764.0	742.8
17.5°	1109.8	1067.4	1019.0	972.2	924.3	880.5	840.9	804.5	771.2	740.5	715.2
20°	1127.6	1080.8	1027.0	973.8	920.1	873.3	830.6	790.3	756.0	722.7	696.7
22.5°	1137.6	1085.7	1027.0	971.3	915.7	865.0	818.1	776.2	738.8	705.5	676.7
25°	1140.8	1085.2	1025.2	961.4	900.4	846.6	798.0	752.5	710.9	677.6	647.0
27.5°	1136.3	1070.9	1009.5	944.0	881.0	824.3	773.3	725.5	683.9	648.1	616.8
30°	1129.6	1059.6	993.6	925.7	861.8	807.4	753.6	707.8	664.4	627.3	595.8
32.5°	1115.3	1045.7	974.8	905.1	840.4	784.3	733.3	687.2	644.7	606.7	573.2
35°	1086.6	1016.2	939.1	867.7	804.2	745.9	698.0	653.6	613.1	572.5	537.1
37.5°	1048.9	977.0	900.4	822.2	758.6	703.6	659.6	618.0	578.3	541.3	502.0
40°	1013.4	947.9	868.8	791.0	725.9	672.7	632.1	594.3	554.5	517.6	478.4
42.5°	970.4	914.5	834.6	756.6	692.2	641.1	603.2	566.3	530.0	494.4	453.4
45°	898.6	856.3	781.3	706.4	641.5	590.8	556.2	523.5	491.6	457.6	419.1
47.5°	816.3	787.6	723.0	646.2	586.2	540.6	507.1	480.5	453.4	419.5	385.7
50°	759.1	740.7	678.3	608.2	551.0	509.0	474.7	449.6	427.1	394.5	364.3
52.5°	698.0	688.3	635.5	568.5	513.2	472.1	442.7	420.3	397.4	370.3	342.1
55°	605.1	610.3	565.5	507.6	455.6	420.9	394.1	375.4	356.0	333.1	311.2
57.5°	510.0	529.1	499.0	448.1	399.3	367.3	347.1	331.4	315.1	296.0	277.4
60°	453.1	469.0	452.1	407.3	364.6	334.8	316.1	303.9	287.6	270.3	256.0
62.5°	397.6	414.6	404.6	368.5	328.9	303.2	286.7	275.4	263.2	248.1	233.3
65°	327.9	338.9	334.1	309.2	281.1	259.1	243.9	235.6	224.4	213.4	200.2
67.5°	251.1	272.6	269.7	256.5	232.2	215.1	205.1	197.8	187.6	179.4	170.4
70°	206.4	226.2	225.9	215.1	201.9	185.9	179.1	172.8	163.7	155.8	148.5
72.5°	169.0	187.1	189.8	181.6	172.5	160.4	153.7	149.5	140.7	135.3	129.3
75°	118.3	131.5	135.0	135.0	130.8	124.6	118.7	115.9	109.6	104.8	101.3
77.5°	77.6	85.9	91.3	92.6	93.2	91.1	86.2	84.3	79.5	77.8	74.5
80°	54.8	60.4	66.6	68.7	70.4	69.7	67.7	66.3	61.8	60.0	58.7
82.5°	37.9	40.9	46.1	50.6	50.2	52.0	50.2	49.0	45.7	45.0	43.6
85°	19.8	20.2	20.8	23.9	25.7	26.4	26.8	26.0	25.0	25.0	22.6
87.5°	8.6	8.1	8.5	8.2	8.3	9.1	9.7	9.7	9.2	8.6	8.0
90°	9.4	8.5	7.6	6.5	5.3	4.0	2.8	1.5	2.8	4.0	5.3
92.5°	18.9	18.3	17.6	16.6	15.2	13.7	12.3	10.9	12.3	13.7	15.2
95°	37.1	36.3	35.5	34.6	33.5	32.5	31.6	30.5	31.6	32.5	33.5
97.5°	59.3	58.3	57.4	56.5	55.7	54.9	54.1	53.3	54.1	54.9	55.7
100°	75.8	74.7	73.7	73.0	72.6	72.1	71.7	71.2	71.7	72.1	72.6
102.5°	93.0	92.1	91.2	90.6	90.4	90.2	90.1	89.9	90.1	90.2	90.4
105°	120.1	119.7	119.2	119.0	118.9	118.7	118.6	118.5	118.6	118.7	118.9
107.5°	149.3	149.2	149.2	149.1	148.9	148.7	148.6	148.5	148.6	148.7	148.9
110°	169.6	169.7	169.8	169.8	169.5	169.3	169.1	168.9	169.1	169.3	169.5



TEST NUMBER: P332902-940

CATALOG NUMBER: SA4XXRDIP-C575D590U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	189.7	189.9	190.1	190.2	190.1	190.1	190.0	190.0	190.0	190.1	190.1
115°	221.1	221.4	221.6	221.8	221.8	221.8	221.8	221.8	221.8	221.8	221.8
117.5°	251.6	251.8	252.0	252.0	251.9	251.8	251.7	251.6	251.7	251.8	251.9
120°	272.8	273.1	273.5	273.4	273.0	272.5	272.1	271.6	272.1	272.5	273.0
122.5°	292.7	292.9	293.1	293.0	292.8	292.7	292.5	292.3	292.5	292.7	292.8
125°	322.7	322.8	322.9	323.0	323.0	323.0	323.0	323.0	323.0	323.0	323.0
127.5°	351.8	352.0	352.1	352.0	351.8	351.4	351.1	350.7	351.1	351.4	351.8
130°	371.8	371.8	371.8	371.6	371.3	371.0	370.6	370.2	370.6	371.0	371.3
132.5°	391.1	391.2	391.3	391.2	390.9	390.7	390.5	390.2	390.5	390.7	390.9
135°	419.5	419.5	419.5	419.3	418.6	417.9	417.2	416.5	417.2	417.9	418.6
137.5°	447.1	446.9	446.7	446.5	446.1	445.9	445.5	445.2	445.5	445.9	446.1
140°	465.4	465.4	465.4	465.2	465.0	464.8	464.6	464.3	464.6	464.8	465.0
142.5°	482.6	482.7	482.8	482.8	482.5	482.3	482.1	481.8	482.1	482.3	482.5
145°	508.4	508.3	508.1	507.8	507.4	506.9	506.5	506.0	506.5	506.9	507.4
147.5°	532.3	532.4	532.4	532.3	531.6	531.1	530.6	530.0	530.6	531.1	531.6
150°	546.7	546.7	546.7	546.5	546.1	545.6	545.2	544.7	545.2	545.6	546.1
152.5°	560.0	559.9	559.8	559.6	559.4	559.1	558.8	558.6	558.8	559.1	559.4
155°	579.5	579.6	579.7	579.8	579.8	579.8	579.8	579.8	579.8	579.8	579.8
157.5°	596.7	596.7	596.7	596.9	597.1	597.3	597.4	597.7	597.4	597.3	597.1
160°	607.5	607.6	607.7	607.8	608.0	608.1	608.1	608.2	608.1	608.1	608.0
162.5°	616.4	616.5	616.6	616.9	617.2	617.4	617.8	618.0	617.8	617.4	617.2
165°	629.1	629.3	629.5	629.8	630.2	630.4	630.8	631.2	630.8	630.4	630.2
167.5°	639.2	639.1	639.1	639.4	639.8	640.2	640.8	641.2	640.8	640.2	639.8
170°	644.6	644.5	644.4	644.6	645.2	645.8	646.4	646.9	646.4	645.8	645.2
172.5°	648.9	648.9	648.9	649.1	649.6	650.1	650.5	650.9	650.5	650.1	649.6
175°	653.8	653.9	654.0	654.3	654.9	655.5	656.0	656.6	656.0	655.5	654.9
177.5°	656.4	656.4	656.4	656.6	657.1	657.5	658.0	658.4	658.0	657.5	657.1
180°	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6



TEST NUMBER: P332902-940

CATALOG NUMBER: SA4XXRDIP-C575D590U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1
2.5°	845.6	842.8	839.2	835.0	830.0	825.6	823.7	825.3	826.2	823.9	823.7
5°	819.8	811.2	804.2	793.8	785.5	778.6	773.6	771.6	772.3	766.8	765.4
7.5°	790.9	780.6	769.3	756.9	745.4	735.2	729.9	726.9	721.0	718.5	714.3
10°	772.3	758.4	747.3	732.7	719.6	707.4	701.5	696.7	690.8	688.0	682.1
12.5°	753.1	737.1	724.9	709.7	696.2	681.6	676.0	667.0	657.7	651.9	644.4
15°	726.1	706.8	691.8	673.8	657.8	641.1	626.2	609.6	603.3	590.1	582.6
17.5°	694.6	674.8	656.4	632.2	607.6	586.9	571.0	555.1	545.5	537.1	533.2
20°	673.8	655.8	630.1	602.0	574.5	551.6	538.8	528.4	518.0	512.1	507.9
22.5°	654.1	631.1	601.2	570.9	543.5	525.6	514.7	504.0	495.5	489.9	484.4
25°	621.1	590.8	559.3	524.6	505.9	490.3	478.4	469.8	464.6	457.3	454.5
27.5°	587.1	550.5	515.7	492.4	472.9	458.6	448.4	441.8	435.2	430.5	427.0
30°	561.0	523.9	492.7	470.5	450.7	438.9	430.5	422.9	417.8	413.9	411.2
32.5°	535.2	498.1	471.8	448.0	432.4	420.9	412.0	406.3	402.2	397.3	395.6
35°	497.8	464.9	442.0	420.5	404.6	394.1	387.2	381.3	377.8	376.5	375.4
37.5°	462.0	435.0	410.4	392.7	378.5	370.3	362.1	359.3	356.9	354.4	355.5
40°	439.3	413.9	392.1	373.4	361.9	352.8	347.9	344.6	342.4	342.4	342.4
42.5°	419.5	394.8	373.4	356.7	345.2	337.6	332.2	329.2	328.6	328.2	329.9
45°	389.0	366.0	344.6	330.6	320.9	313.3	310.1	307.7	307.7	309.2	309.5
47.5°	358.6	337.2	319.9	304.3	295.4	290.7	287.9	286.7	286.9	288.2	289.8
50°	340.0	318.9	301.8	287.9	279.6	275.1	272.7	272.0	272.7	272.7	275.1
52.5°	319.8	300.8	284.1	272.4	263.0	258.8	257.4	256.5	256.9	258.0	259.0
55°	290.1	273.0	257.1	246.0	239.1	236.3	233.2	233.5	232.8	233.5	233.5
57.5°	260.3	245.0	230.2	221.3	215.3	211.2	207.9	208.7	207.8	207.6	207.1
60°	241.1	224.4	212.7	204.7	197.8	194.3	191.2	191.9	190.8	190.1	188.8
62.5°	220.3	206.4	195.2	187.5	181.9	177.9	174.8	174.1	171.7	169.3	166.2
65°	190.1	178.7	168.6	161.3	156.1	153.0	150.6	148.5	143.3	137.8	135.0
67.5°	160.8	152.5	143.1	137.0	132.8	128.7	124.0	120.5	115.6	112.5	110.8
70°	141.9	133.9	125.9	120.0	115.6	111.7	106.5	104.1	100.6	99.2	97.5
72.5°	123.9	116.5	109.0	103.7	98.9	95.9	91.8	89.3	87.8	87.3	85.5
75°	96.5	90.6	85.0	80.2	76.3	74.3	72.5	70.8	70.1	67.0	65.2
77.5°	70.4	66.4	63.0	59.6	56.8	55.5	52.1	50.1	49.0	47.4	47.1
80°	54.8	52.1	48.6	46.5	42.7	41.3	39.9	39.6	39.2	38.9	38.5
82.5°	41.2	38.4	35.0	33.7	32.7	31.8	31.0	30.7	30.3	30.5	30.5
85°	20.8	19.4	19.4	19.1	18.7	18.4	18.0	18.0	17.7	18.0	17.7
87.5°	8.2	8.2	8.4	8.0	8.5	8.6	8.5	8.6	9.0	8.6	8.7
90°	6.5	7.6	8.5	9.4	10.3	11.1	11.9	12.6	13.2	13.9	14.4
92.5°	16.6	17.6	18.3	18.9	19.5	20.2	20.5	21.0	21.4	21.8	22.0
95°	34.6	35.5	36.3	37.1	37.9	38.6	39.0	39.3	39.7	40.0	40.2
97.5°	56.5	57.4	58.3	59.3	60.2	61.2	61.5	62.0	62.3	62.8	63.0
100°	73.0	73.7	74.7	75.8	76.8	77.8	78.0	78.3	78.5	78.7	78.8
102.5°	90.6	91.2	92.1	93.0	94.0	94.9	95.2	95.5	95.9	96.1	96.4
105°	119.0	119.2	119.7	120.1	120.6	121.0	121.4	121.7	122.1	122.4	122.7
107.5°	149.1	149.2	149.2	149.3	149.4	149.5	149.7	150.1	150.3	150.7	150.9
110°	169.8	169.8	169.7	169.6	169.5	169.3	169.2	168.9	168.7	168.4	168.5



TEST NUMBER: P332902-940

CATALOG NUMBER: SA4XXRDIP-C575D590U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	190.2	190.1	189.9	189.7	189.5	189.3	189.2	189.2	189.1	189.1	189.1
115°	221.8	221.6	221.4	221.1	221.0	220.7	220.6	220.5	220.4	220.3	220.2
117.5°	252.0	252.0	251.8	251.6	251.5	251.4	250.9	250.6	250.2	249.8	249.5
120°	273.4	273.5	273.1	272.8	272.4	272.1	271.5	271.0	270.4	269.8	269.7
122.5°	293.0	293.1	292.9	292.7	292.6	292.5	292.0	291.7	291.3	290.9	290.5
125°	323.0	322.9	322.8	322.7	322.5	322.4	322.2	322.0	321.7	321.6	321.3
127.5°	352.0	352.1	352.0	351.8	351.6	351.4	351.2	351.0	350.8	350.5	350.4
130°	371.6	371.8	371.8	371.8	371.8	371.8	371.6	371.3	371.1	370.9	370.5
132.5°	391.2	391.3	391.2	391.1	391.0	390.9	390.7	390.5	390.2	390.0	389.8
135°	419.3	419.5	419.5	419.5	419.5	419.5	419.4	419.1	418.9	418.7	418.4
137.5°	446.5	446.7	446.9	447.1	447.3	447.5	447.2	446.8	446.6	446.3	446.1
140°	465.2	465.4	465.4	465.4	465.4	465.4	465.2	465.1	465.0	464.9	464.8
142.5°	482.8	482.8	482.7	482.6	482.5	482.4	482.4	482.4	482.4	482.3	482.3
145°	507.8	508.1	508.3	508.4	508.5	508.5	508.5	508.4	508.3	508.1	507.9
147.5°	532.3	532.4	532.4	532.3	532.2	532.1	532.0	531.9	531.8	531.7	531.6
150°	546.5	546.7	546.7	546.7	546.7	546.7	546.7	546.7	546.7	546.7	546.7
152.5°	559.6	559.8	559.9	560.0	560.1	560.2	560.4	560.7	561.0	561.2	561.2
155°	579.8	579.7	579.6	579.5	579.4	579.3	579.7	580.1	580.6	581.1	581.1
157.5°	596.9	596.7	596.7	596.7	596.7	596.6	597.0	597.4	597.7	598.1	598.0
160°	607.8	607.7	607.6	607.5	607.3	607.3	607.6	608.0	608.2	608.6	608.5
162.5°	616.9	616.6	616.5	616.4	616.4	616.2	616.8	617.4	618.0	618.7	618.7
165°	629.8	629.5	629.3	629.1	628.8	628.7	629.3	630.0	630.6	631.3	631.4
167.5°	639.4	639.1	639.1	639.2	639.2	639.2	639.9	640.5	641.2	641.9	641.9
170°	644.6	644.4	644.5	644.6	644.8	644.9	645.6	646.2	646.9	647.6	647.6
172.5°	649.1	648.9	648.9	648.9	648.9	649.0	649.7	650.5	651.3	652.0	652.0
175°	654.3	654.0	653.9	653.8	653.6	653.5	654.3	655.1	655.9	656.7	656.7
177.5°	656.6	656.4	656.4	656.4	656.4	656.4	657.0	657.6	658.3	658.9	658.9
180°	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6



TEST NUMBER: P332902-940

CATALOG NUMBER: SA4XXRDIP-C575D590U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1
2.5°	822.0	822.5	820.6	820.0	820.6	822.5	822.0	823.7	823.9	826.2	825.3
5°	762.6	761.9	760.2	760.5	760.2	761.9	762.6	765.4	766.8	772.3	771.6
7.5°	711.8	709.1	709.9	707.0	709.9	709.1	711.8	714.3	718.5	721.0	726.9
10°	680.7	676.9	673.8	671.0	673.8	676.9	680.7	682.1	688.0	690.8	696.7
12.5°	638.3	635.0	630.7	631.6	630.7	635.0	638.3	644.4	651.9	657.7	667.0
15°	578.0	572.8	564.5	565.5	564.5	572.8	578.0	582.6	590.1	603.3	609.6
17.5°	527.0	527.1	523.3	524.1	523.3	527.1	527.0	533.2	537.1	545.5	555.1
20°	500.6	498.2	498.6	497.5	498.6	498.2	500.6	507.9	512.1	518.0	528.4
22.5°	482.3	479.4	476.9	474.7	476.9	479.4	482.3	484.4	489.9	495.5	504.0
25°	451.4	449.3	446.2	445.5	446.2	449.3	451.4	454.5	457.3	464.6	469.8
27.5°	424.2	423.7	422.5	420.9	422.5	423.7	424.2	427.0	430.5	435.2	441.8
30°	408.3	407.7	407.0	405.9	407.0	407.7	408.3	411.2	413.9	417.8	422.9
32.5°	394.2	393.8	393.1	393.2	393.1	393.8	394.2	395.6	397.3	402.2	406.3
35°	374.0	373.6	373.0	372.6	373.0	373.6	374.0	375.4	376.5	377.8	381.3
37.5°	355.2	356.1	355.6	355.5	355.6	356.1	355.2	355.5	354.4	356.9	359.3
40°	342.1	342.4	343.1	342.8	343.1	342.4	342.1	342.4	342.4	342.4	344.6
42.5°	331.3	331.4	332.3	331.1	332.3	331.4	331.3	329.9	328.2	328.6	329.2
45°	311.9	314.0	313.6	313.6	313.6	314.0	311.9	309.5	309.2	307.7	307.7
47.5°	290.7	292.6	293.0	292.9	293.0	292.6	290.7	289.8	288.2	286.9	286.7
50°	276.9	276.2	277.2	276.9	277.2	276.2	276.9	275.1	272.7	272.7	272.0
52.5°	259.9	260.1	260.0	259.7	260.0	260.1	259.9	259.0	258.0	256.9	256.5
55°	233.8	234.2	233.5	233.8	233.5	234.2	233.8	233.5	233.5	232.8	233.5
57.5°	205.5	203.8	204.6	203.8	204.6	203.8	205.5	207.1	207.6	207.8	208.7
60°	185.3	182.5	181.8	180.4	181.8	182.5	185.3	188.8	190.1	190.8	191.9
62.5°	162.5	160.6	158.2	159.3	158.2	160.6	162.5	166.2	169.3	171.7	174.1
65°	132.2	130.8	129.7	131.2	129.7	130.8	132.2	135.0	137.8	143.3	148.5
67.5°	109.4	108.7	108.7	108.0	108.7	108.7	109.4	110.8	112.5	115.6	120.5
70°	97.5	96.5	96.5	95.8	96.5	96.5	97.5	97.5	99.2	100.6	104.1
72.5°	85.2	84.3	84.5	84.1	84.5	84.3	85.2	85.5	87.3	87.8	89.3
75°	63.1	61.4	61.4	61.8	61.4	61.4	63.1	65.2	67.0	70.1	70.8
77.5°	47.1	46.7	47.3	46.6	47.3	46.7	47.1	47.1	47.4	49.0	50.1
80°	38.5	38.2	37.8	38.9	37.8	38.2	38.5	38.5	38.9	39.2	39.6
82.5°	29.9	29.9	29.8	31.1	29.8	29.9	29.9	30.5	30.5	30.3	30.7
85°	18.0	17.4	18.0	17.4	18.0	17.4	18.0	17.7	18.0	17.7	18.0
87.5°	9.3	9.1	8.8	9.2	8.8	9.1	9.3	8.7	8.6	9.0	8.6
90°	14.6	14.8	15.1	15.2	15.1	14.8	14.6	14.4	13.9	13.2	12.6
92.5°	22.2	22.3	22.5	22.6	22.5	22.3	22.2	22.0	21.8	21.4	21.0
95°	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.0	39.7	39.3
97.5°	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	62.8	62.3	62.0
100°	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.7	78.5	78.3
102.5°	96.5	96.6	96.7	96.8	96.7	96.6	96.5	96.4	96.1	95.9	95.5
105°	123.1	123.4	123.8	124.1	123.8	123.4	123.1	122.7	122.4	122.1	121.7
107.5°	150.8	150.8	150.8	150.8	150.8	150.8	150.8	150.9	150.7	150.3	150.1
110°	168.9	169.2	169.5	169.9	169.5	169.2	168.9	168.5	168.4	168.7	168.9



TEST NUMBER: P332902-940

CATALOG NUMBER: SA4XXRDIP-C575D590U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	189.2	189.2	189.3	189.4	189.3	189.2	189.2	189.1	189.1	189.1	189.2
115°	220.1	219.9	219.8	219.7	219.8	219.9	220.1	220.2	220.3	220.4	220.5
117.5°	249.2	249.1	248.8	248.6	248.8	249.1	249.2	249.5	249.8	250.2	250.6
120°	269.9	270.1	270.4	270.5	270.4	270.1	269.9	269.7	269.8	270.4	271.0
122.5°	290.1	289.7	289.3	288.9	289.3	289.7	290.1	290.5	290.9	291.3	291.7
125°	321.1	320.8	320.7	320.4	320.7	320.8	321.1	321.3	321.6	321.7	322.0
127.5°	350.2	350.0	349.8	349.6	349.8	350.0	350.2	350.4	350.5	350.8	351.0
130°	370.1	369.6	369.2	368.7	369.2	369.6	370.1	370.5	370.9	371.1	371.3
132.5°	389.6	389.4	389.2	389.1	389.2	389.4	389.6	389.8	390.0	390.2	390.5
135°	418.0	417.7	417.4	417.1	417.4	417.7	418.0	418.4	418.7	418.9	419.1
137.5°	446.2	446.3	446.4	446.5	446.4	446.3	446.2	446.1	446.3	446.6	446.8
140°	464.7	464.6	464.5	464.3	464.5	464.6	464.7	464.8	464.9	465.0	465.1
142.5°	482.3	482.3	482.2	482.2	482.2	482.3	482.3	482.3	482.3	482.4	482.4
145°	507.6	507.2	506.8	506.6	506.8	507.2	507.6	507.9	508.1	508.3	508.4
147.5°	531.5	531.4	531.3	531.2	531.3	531.4	531.5	531.6	531.7	531.8	531.9
150°	546.5	546.4	546.4	546.3	546.4	546.4	546.5	546.7	546.7	546.7	546.7
152.5°	561.0	560.6	560.4	560.1	560.4	560.6	561.0	561.2	561.2	561.0	560.7
155°	580.6	580.1	579.7	579.3	579.7	580.1	580.6	581.1	581.1	580.6	580.1
157.5°	597.6	597.3	596.8	596.5	596.8	597.3	597.6	598.0	598.1	597.7	597.4
160°	608.0	607.3	606.8	606.3	606.8	607.3	608.0	608.5	608.6	608.2	608.0
162.5°	618.1	617.5	617.0	616.4	617.0	617.5	618.1	618.7	618.7	618.0	617.4
165°	631.0	630.5	630.1	629.6	630.1	630.5	631.0	631.4	631.3	630.6	630.0
167.5°	641.2	640.5	639.8	639.1	639.8	640.5	641.2	641.9	641.9	641.2	640.5
170°	646.8	646.0	645.2	644.4	645.2	646.0	646.8	647.6	647.6	646.9	646.2
172.5°	651.2	650.4	649.6	648.9	649.6	650.4	651.2	652.0	652.0	651.3	650.5
175°	655.9	655.1	654.3	653.5	654.3	655.1	655.9	656.7	656.7	655.9	655.1
177.5°	658.2	657.5	656.7	655.9	656.7	657.5	658.2	658.9	658.9	658.3	657.6
180°	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6



TEST NUMBER: P332902-940

CATALOG NUMBER: SA4XXRDIP-C575D590U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1
2.5°	823.7	825.6	830.0	835.0	839.2	842.8	845.6	849.4	853.1	858.1	862.8
5°	773.6	778.6	785.5	793.8	804.2	811.2	819.8	827.5	838.6	849.7	860.4
7.5°	729.9	735.2	745.4	756.9	769.3	780.6	790.9	804.3	819.0	835.3	853.3
10°	701.5	707.4	719.6	732.7	747.3	758.4	772.3	788.3	804.9	824.7	846.9
12.5°	676.0	681.6	696.2	709.7	724.9	737.1	753.1	769.4	791.6	813.1	838.3
15°	626.2	641.1	657.8	673.8	691.8	706.8	726.1	742.8	764.0	794.2	823.0
17.5°	571.0	586.9	607.6	632.2	656.4	674.8	694.6	715.2	740.5	771.2	804.5
20°	538.8	551.6	574.5	602.0	630.1	655.8	673.8	696.7	722.7	756.0	790.3
22.5°	514.7	525.6	543.5	570.9	601.2	631.1	654.1	676.7	705.5	738.8	776.2
25°	478.4	490.3	505.9	524.6	559.3	590.8	621.1	647.0	677.6	710.9	752.5
27.5°	448.4	458.6	472.9	492.4	515.7	550.5	587.1	616.8	648.1	683.9	725.5
30°	430.5	438.9	450.7	470.5	492.7	523.9	561.0	595.8	627.3	664.4	707.8
32.5°	412.0	420.9	432.4	448.0	471.8	498.1	535.2	573.2	606.7	644.7	687.2
35°	387.2	394.1	404.6	420.5	442.0	464.9	497.8	537.1	572.5	613.1	653.6
37.5°	362.1	370.3	378.5	392.7	410.4	435.0	462.0	502.0	541.3	578.3	618.0
40°	347.9	352.8	361.9	373.4	392.1	413.9	439.3	478.4	517.6	554.5	594.3
42.5°	332.2	337.6	345.2	356.7	373.4	394.8	419.5	453.4	494.4	530.0	566.3
45°	310.1	313.3	320.9	330.6	344.6	366.0	389.0	419.1	457.6	491.6	523.5
47.5°	287.9	290.7	295.4	304.3	319.9	337.2	358.6	385.7	419.5	453.4	480.5
50°	272.7	275.1	279.6	287.9	301.8	318.9	340.0	364.3	394.5	427.1	449.6
52.5°	257.4	258.8	263.0	272.4	284.1	300.8	319.8	342.1	370.3	397.4	420.3
55°	233.2	236.3	239.1	246.0	257.1	273.0	290.1	311.2	333.1	356.0	375.4
57.5°	207.9	211.2	215.3	221.3	230.2	245.0	260.3	277.4	296.0	315.1	331.4
60°	191.2	194.3	197.8	204.7	212.7	224.4	241.1	256.0	270.3	287.6	303.9
62.5°	174.8	177.9	181.9	187.5	195.2	206.4	220.3	233.3	248.1	263.2	275.4
65°	150.6	153.0	156.1	161.3	168.6	178.7	190.1	200.2	213.4	224.4	235.6
67.5°	124.0	128.7	132.8	137.0	143.1	152.5	160.8	170.4	179.4	187.6	197.8
70°	106.5	111.7	115.6	120.0	125.9	133.9	141.9	148.5	155.8	163.7	172.8
72.5°	91.8	95.9	98.9	103.7	109.0	116.5	123.9	129.3	135.3	140.7	149.5
75°	72.5	74.3	76.3	80.2	85.0	90.6	96.5	101.3	104.8	109.6	115.9
77.5°	52.1	55.5	56.8	59.6	63.0	66.4	70.4	74.5	77.8	79.5	84.3
80°	39.9	41.3	42.7	46.5	48.6	52.1	54.8	58.7	60.0	61.8	66.3
82.5°	31.0	31.8	32.7	33.7	35.0	38.4	41.2	43.6	45.0	45.7	49.0
85°	18.0	18.4	18.7	19.1	19.4	19.4	20.8	22.6	25.0	25.0	26.0
87.5°	8.5	8.6	8.5	8.0	8.4	8.2	8.2	8.0	8.6	9.2	9.7
90°	11.9	11.1	10.3	9.4	8.5	7.6	6.5	5.3	4.0	2.8	1.5
92.5°	20.5	20.2	19.5	18.9	18.3	17.6	16.6	15.2	13.7	12.3	10.9
95°	39.0	38.6	37.9	37.1	36.3	35.5	34.6	33.5	32.5	31.6	30.5
97.5°	61.5	61.2	60.2	59.3	58.3	57.4	56.5	55.7	54.9	54.1	53.3
100°	78.0	77.8	76.8	75.8	74.7	73.7	73.0	72.6	72.1	71.7	71.2
102.5°	95.2	94.9	94.0	93.0	92.1	91.2	90.6	90.4	90.2	90.1	89.9
105°	121.4	121.0	120.6	120.1	119.7	119.2	119.0	118.9	118.7	118.6	118.5
107.5°	149.7	149.5	149.4	149.3	149.2	149.2	149.1	148.9	148.7	148.6	148.5
110°	169.2	169.3	169.5	169.6	169.7	169.8	169.8	169.5	169.3	169.1	168.9



TEST NUMBER: P332902-940

CATALOG NUMBER: SA4XXRDIP-C575D590U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	189.2	189.3	189.5	189.7	189.9	190.1	190.2	190.1	190.1	190.0	190.0
115°	220.6	220.7	221.0	221.1	221.4	221.6	221.8	221.8	221.8	221.8	221.8
117.5°	250.9	251.4	251.5	251.6	251.8	252.0	252.0	251.9	251.8	251.7	251.6
120°	271.5	272.1	272.4	272.8	273.1	273.5	273.4	273.0	272.5	272.1	271.6
122.5°	292.0	292.5	292.6	292.7	292.9	293.1	293.0	292.8	292.7	292.5	292.3
125°	322.2	322.4	322.5	322.7	322.8	322.9	323.0	323.0	323.0	323.0	323.0
127.5°	351.2	351.4	351.6	351.8	352.0	352.1	352.0	351.8	351.4	351.1	350.7
130°	371.6	371.8	371.8	371.8	371.8	371.8	371.6	371.3	371.0	370.6	370.2
132.5°	390.7	390.9	391.0	391.1	391.2	391.3	391.2	390.9	390.7	390.5	390.2
135°	419.4	419.5	419.5	419.5	419.5	419.5	419.3	418.6	417.9	417.2	416.5
137.5°	447.2	447.5	447.3	447.1	446.9	446.7	446.5	446.1	445.9	445.5	445.2
140°	465.2	465.4	465.4	465.4	465.4	465.4	465.2	465.0	464.8	464.6	464.3
142.5°	482.4	482.4	482.5	482.6	482.7	482.8	482.8	482.5	482.3	482.1	481.8
145°	508.5	508.5	508.5	508.4	508.3	508.1	507.8	507.4	506.9	506.5	506.0
147.5°	532.0	532.1	532.2	532.3	532.4	532.4	532.3	531.6	531.1	530.6	530.0
150°	546.7	546.7	546.7	546.7	546.7	546.7	546.5	546.1	545.6	545.2	544.7
152.5°	560.4	560.2	560.1	560.0	559.9	559.8	559.6	559.4	559.1	558.8	558.6
155°	579.7	579.3	579.4	579.5	579.6	579.7	579.8	579.8	579.8	579.8	579.8
157.5°	597.0	596.6	596.7	596.7	596.7	596.7	596.9	597.1	597.3	597.4	597.7
160°	607.6	607.3	607.3	607.5	607.6	607.7	607.8	608.0	608.1	608.1	608.2
162.5°	616.8	616.2	616.4	616.4	616.5	616.6	616.9	617.2	617.4	617.8	618.0
165°	629.3	628.7	628.8	629.1	629.3	629.5	629.8	630.2	630.4	630.8	631.2
167.5°	639.9	639.2	639.2	639.2	639.1	639.1	639.4	639.8	640.2	640.8	641.2
170°	645.6	644.9	644.8	644.6	644.5	644.4	644.6	645.2	645.8	646.4	646.9
172.5°	649.7	649.0	648.9	648.9	648.9	648.9	649.1	649.6	650.1	650.5	650.9
175°	654.3	653.5	653.6	653.8	653.9	654.0	654.3	654.9	655.5	656.0	656.6
177.5°	657.0	656.4	656.4	656.4	656.4	656.4	656.6	657.1	657.5	658.0	658.4
180°	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6



TEST NUMBER: P332902-940
 CATALOG NUMBER: SA4XXRDIP-C575D590U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1
2.5°	866.4	868.9	871.6	876.9	881.4	883.3	887.3	890.0	889.1	893.0	899.7
5°	869.8	879.1	889.9	901.0	913.5	923.9	932.3	940.6	947.2	955.1	967.0
7.5°	869.2	885.9	904.0	923.9	944.4	962.1	978.5	995.1	1009.9	1026.1	1047.2
10°	867.0	889.2	911.8	937.8	963.9	988.5	1010.7	1031.4	1051.2	1072.4	1099.1
12.5°	864.5	890.0	917.3	948.6	981.1	1010.7	1036.8	1066.8	1091.5	1118.7	1149.7
15°	853.5	887.9	925.0	965.5	1004.4	1044.3	1080.0	1116.9	1151.2	1183.7	1222.6
17.5°	840.9	880.5	924.3	972.2	1019.0	1067.4	1109.8	1156.2	1191.2	1235.0	1271.1
20°	830.6	873.3	920.1	973.8	1027.0	1080.8	1127.6	1174.7	1214.3	1258.4	1304.2
22.5°	818.1	865.0	915.7	971.3	1027.0	1085.7	1137.6	1184.5	1233.5	1283.1	1330.3
25°	798.0	846.6	900.4	961.4	1025.2	1085.2	1140.8	1199.1	1251.8	1305.6	1347.9
27.5°	773.3	824.3	881.0	944.0	1009.5	1070.9	1136.3	1198.5	1251.5	1303.2	1340.2
30°	753.6	807.4	861.8	925.7	993.6	1059.6	1129.6	1191.8	1247.6	1294.1	1314.9
32.5°	733.3	784.3	840.4	905.1	974.8	1045.7	1115.3	1178.8	1230.4	1258.3	1258.8
35°	698.0	745.9	804.2	867.7	939.1	1016.2	1086.6	1149.1	1180.6	1183.1	1149.1
37.5°	659.6	703.6	758.6	822.2	900.4	977.0	1048.9	1090.6	1101.2	1065.9	1003.0
40°	632.1	672.7	725.9	791.0	868.8	947.9	1013.4	1043.9	1032.9	975.6	905.5
42.5°	603.2	641.1	692.2	756.6	834.6	914.5	970.4	986.8	957.3	891.3	809.2
45°	556.2	590.8	641.5	706.4	781.3	856.3	898.6	890.3	841.3	762.9	671.0
47.5°	507.1	540.6	586.2	646.2	723.0	787.6	816.3	791.2	721.6	635.3	560.5
50°	474.7	509.0	551.0	608.2	678.3	740.7	759.1	720.9	643.5	560.7	492.0
52.5°	442.7	472.1	513.2	568.5	635.5	688.3	698.0	654.1	574.2	499.9	439.0
55°	394.1	420.9	455.6	507.6	565.5	610.3	605.1	548.5	476.0	412.5	364.6
57.5°	347.1	367.3	399.3	448.1	499.0	529.1	510.0	461.8	394.2	342.2	301.8
60°	316.1	334.8	364.6	407.3	452.1	469.0	453.1	400.7	347.3	299.8	265.7
62.5°	286.7	303.2	328.9	368.5	404.6	414.6	397.6	351.9	303.7	263.1	235.0
65°	243.9	259.1	281.1	309.2	334.1	338.9	327.9	281.1	244.6	210.6	191.2
67.5°	205.1	215.1	232.2	256.5	269.7	272.6	251.1	221.7	189.6	168.7	154.1
70°	179.1	185.9	201.9	215.1	225.9	226.2	206.4	182.8	158.2	141.2	130.5
72.5°	153.7	160.4	172.5	181.6	189.8	187.1	169.0	150.3	130.5	117.6	109.6
75°	118.7	124.6	130.8	135.0	135.0	131.5	118.3	104.4	93.0	85.3	82.9
77.5°	86.2	91.1	93.2	92.6	91.3	85.9	77.6	68.5	64.4	60.8	58.9
80°	67.7	69.7	70.4	68.7	66.6	60.4	54.8	51.0	47.2	45.8	45.1
82.5°	50.2	52.0	50.2	50.6	46.1	40.9	37.9	36.6	35.0	34.4	33.7
85°	26.8	26.4	25.7	23.9	20.8	20.2	19.8	19.4	18.7	19.1	18.4
87.5°	9.7	9.1	8.3	8.2	8.5	8.1	8.6	8.7	8.9	8.7	9.5
90°	2.8	4.0	5.3	6.5	7.6	8.5	9.4	10.3	11.1	11.9	12.6
92.5°	12.3	13.7	15.2	16.6	17.6	18.3	18.9	19.5	20.2	20.5	21.0
95°	31.6	32.5	33.5	34.6	35.5	36.3	37.1	37.9	38.6	39.0	39.3
97.5°	54.1	54.9	55.7	56.5	57.4	58.3	59.3	60.2	61.2	61.5	62.0
100°	71.7	72.1	72.6	73.0	73.7	74.7	75.8	76.8	77.8	78.0	78.3
102.5°	90.1	90.2	90.4	90.6	91.2	92.1	93.0	94.0	94.9	95.2	95.5
105°	118.6	118.7	118.9	119.0	119.2	119.7	120.1	120.6	121.0	121.4	121.7
107.5°	148.6	148.7	148.9	149.1	149.2	149.2	149.3	149.4	149.5	149.7	150.1
110°	169.1	169.3	169.5	169.8	169.8	169.7	169.6	169.5	169.3	169.2	168.9



TEST NUMBER: P332902-940

CATALOG NUMBER: SA4XXRDIP-C575D590U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	190.0	190.1	190.1	190.2	190.1	189.9	189.7	189.5	189.3	189.2	189.2
115°	221.8	221.8	221.8	221.8	221.6	221.4	221.1	221.0	220.7	220.6	220.5
117.5°	251.7	251.8	251.9	252.0	252.0	251.8	251.6	251.5	251.4	250.9	250.6
120°	272.1	272.5	273.0	273.4	273.5	273.1	272.8	272.4	272.1	271.5	271.0
122.5°	292.5	292.7	292.8	293.0	293.1	292.9	292.7	292.6	292.5	292.0	291.7
125°	323.0	323.0	323.0	323.0	322.9	322.8	322.7	322.5	322.4	322.2	322.0
127.5°	351.1	351.4	351.8	352.0	352.1	352.0	351.8	351.6	351.4	351.2	351.0
130°	370.6	371.0	371.3	371.6	371.8	371.8	371.8	371.8	371.8	371.6	371.3
132.5°	390.5	390.7	390.9	391.2	391.3	391.2	391.1	391.0	390.9	390.7	390.5
135°	417.2	417.9	418.6	419.3	419.5	419.5	419.5	419.5	419.5	419.4	419.1
137.5°	445.5	445.9	446.1	446.5	446.7	446.9	447.1	447.3	447.5	447.2	446.8
140°	464.6	464.8	465.0	465.2	465.4	465.4	465.4	465.4	465.4	465.2	465.1
142.5°	482.1	482.3	482.5	482.8	482.8	482.7	482.6	482.5	482.4	482.4	482.4
145°	506.5	506.9	507.4	507.8	508.1	508.3	508.4	508.5	508.5	508.5	508.4
147.5°	530.6	531.1	531.6	532.3	532.4	532.4	532.3	532.2	532.1	532.0	531.9
150°	545.2	545.6	546.1	546.5	546.7	546.7	546.7	546.7	546.7	546.7	546.7
152.5°	558.8	559.1	559.4	559.6	559.8	559.9	560.0	560.1	560.2	560.4	560.7
155°	579.8	579.8	579.8	579.8	579.7	579.6	579.5	579.4	579.3	579.7	580.1
157.5°	597.4	597.3	597.1	596.9	596.7	596.7	596.7	596.7	596.6	597.0	597.4
160°	608.1	608.1	608.0	607.8	607.7	607.6	607.5	607.3	607.3	607.6	608.0
162.5°	617.8	617.4	617.2	616.9	616.6	616.5	616.4	616.4	616.2	616.8	617.4
165°	630.8	630.4	630.2	629.8	629.5	629.3	629.1	628.8	628.7	629.3	630.0
167.5°	640.8	640.2	639.8	639.4	639.1	639.1	639.2	639.2	639.2	639.9	640.5
170°	646.4	645.8	645.2	644.6	644.4	644.5	644.6	644.8	644.9	645.6	646.2
172.5°	650.5	650.1	649.6	649.1	648.9	648.9	648.9	648.9	649.0	649.7	650.5
175°	656.0	655.5	654.9	654.3	654.0	653.9	653.8	653.6	653.5	654.3	655.1
177.5°	658.0	657.5	657.1	656.6	656.4	656.4	656.4	656.4	656.4	657.0	657.6
180°	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	861.1	861.1	861.1	861.1	861.1	861.1	861.1
2.5°	903.3	904.5	905.3	908.0	908.3	910.8	908.3
5°	978.0	982.9	990.5	998.2	998.9	1003.7	995.1
7.5°	1061.8	1073.1	1080.1	1092.4	1097.3	1100.4	1095.4
10°	1119.6	1130.0	1148.4	1157.4	1166.4	1167.8	1163.7
12.5°	1175.4	1191.9	1206.4	1223.5	1223.1	1235.3	1230.8
15°	1249.7	1266.7	1286.8	1305.9	1312.9	1312.9	1318.4
17.5°	1302.7	1333.9	1354.7	1369.7	1386.1	1388.9	1387.0
20°	1338.5	1372.2	1394.4	1413.8	1425.0	1428.1	1428.1
22.5°	1365.2	1393.8	1415.5	1433.0	1442.2	1445.8	1444.7
25°	1383.7	1408.3	1421.5	1426.6	1429.1	1428.3	1421.8
27.5°	1358.3	1357.3	1348.9	1332.9	1321.0	1313.7	1305.4
30°	1310.1	1292.0	1271.2	1248.3	1218.8	1196.2	1189.4
32.5°	1238.2	1197.7	1162.4	1124.3	1092.5	1070.0	1060.5
35°	1099.1	1034.9	982.6	936.7	903.5	882.6	875.7
37.5°	934.2	872.0	807.2	762.8	735.1	714.1	706.2
40°	829.2	761.5	705.0	663.3	634.9	614.5	614.1
42.5°	733.4	668.9	615.6	585.7	555.0	541.4	541.4
45°	600.6	548.8	503.7	480.2	461.8	450.7	447.5
47.5°	497.2	454.5	424.5	405.6	390.7	383.6	379.0
50°	439.3	401.8	377.8	361.5	353.2	344.2	343.5
52.5°	390.9	360.7	342.1	328.8	318.3	312.8	313.0
55°	328.6	304.6	291.4	281.3	273.0	268.9	267.2
57.5°	276.8	258.9	249.2	240.0	236.5	233.2	232.3
60°	244.6	232.5	223.5	216.2	211.0	209.9	209.6
62.5°	217.9	205.3	199.0	193.4	189.6	188.0	187.3
65°	179.7	170.3	164.8	160.3	158.9	156.5	156.1
67.5°	144.9	139.3	135.6	132.5	130.5	130.5	130.5
70°	123.5	120.4	117.3	115.6	114.5	113.8	113.8
72.5°	105.2	102.9	100.3	99.4	99.2	98.5	98.3
75°	80.2	77.8	78.0	76.3	74.9	73.2	72.1
77.5°	56.8	55.1	54.8	54.6	53.3	53.1	53.7
80°	44.1	42.4	42.0	42.4	42.0	40.9	40.9
82.5°	33.5	32.1	31.7	31.5	31.1	31.5	30.9
85°	18.0	17.4	17.4	17.4	18.0	17.7	17.4
87.5°	9.0	8.9	9.3	9.0	9.1	8.8	9.2
90°	13.2	13.9	14.4	14.6	14.8	15.1	15.2
92.5°	21.4	21.8	22.0	22.2	22.3	22.5	22.6
95°	39.7	40.0	40.2	40.2	40.2	40.2	40.2
97.5°	62.3	62.8	63.0	63.0	63.0	63.0	63.0
100°	78.5	78.7	78.8	78.8	78.8	78.8	78.8
102.5°	95.9	96.1	96.4	96.5	96.6	96.7	96.8
105°	122.1	122.4	122.7	123.1	123.4	123.8	124.1
107.5°	150.3	150.7	150.9	150.8	150.8	150.8	150.8
110°	168.7	168.4	168.5	168.9	169.2	169.5	169.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	189.1	189.1	189.1	189.2	189.2	189.3	189.4
115°	220.4	220.3	220.2	220.1	219.9	219.8	219.7
117.5°	250.2	249.8	249.5	249.2	249.1	248.8	248.6
120°	270.4	269.8	269.7	269.9	270.1	270.4	270.5
122.5°	291.3	290.9	290.5	290.1	289.7	289.3	288.9
125°	321.7	321.6	321.3	321.1	320.8	320.7	320.4
127.5°	350.8	350.5	350.4	350.2	350.0	349.8	349.6
130°	371.1	370.9	370.5	370.1	369.6	369.2	368.7
132.5°	390.2	390.0	389.8	389.6	389.4	389.2	389.1
135°	418.9	418.7	418.4	418.0	417.7	417.4	417.1
137.5°	446.6	446.3	446.1	446.2	446.3	446.4	446.5
140°	465.0	464.9	464.8	464.7	464.6	464.5	464.3
142.5°	482.4	482.3	482.3	482.3	482.3	482.2	482.2
145°	508.3	508.1	507.9	507.6	507.2	506.8	506.6
147.5°	531.8	531.7	531.6	531.5	531.4	531.3	531.2
150°	546.7	546.7	546.7	546.5	546.4	546.4	546.3
152.5°	561.0	561.2	561.2	561.0	560.6	560.4	560.1
155°	580.6	581.1	581.1	580.6	580.1	579.7	579.3
157.5°	597.7	598.1	598.0	597.6	597.3	596.8	596.5
160°	608.2	608.6	608.5	608.0	607.3	606.8	606.3
162.5°	618.0	618.7	618.7	618.1	617.5	617.0	616.4
165°	630.6	631.3	631.4	631.0	630.5	630.1	629.6
167.5°	641.2	641.9	641.9	641.2	640.5	639.8	639.1
170°	646.9	647.6	647.6	646.8	646.0	645.2	644.4
172.5°	651.3	652.0	652.0	651.2	650.4	649.6	648.9
175°	655.9	656.7	656.7	655.9	655.1	654.3	653.5
177.5°	658.3	658.9	658.9	658.2	657.5	656.7	655.9
180°	657.6	657.6	657.6	657.6	657.6	657.6	657.6

(END OF REPORT)