

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: P332546-927

Luminaire Tested: **SA4XXDIP-C575D590U927-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332546-927
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: SA4XXDIP-C575D590U927-4F0-1E-UDD-A4
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 575 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 590 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3727.0 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

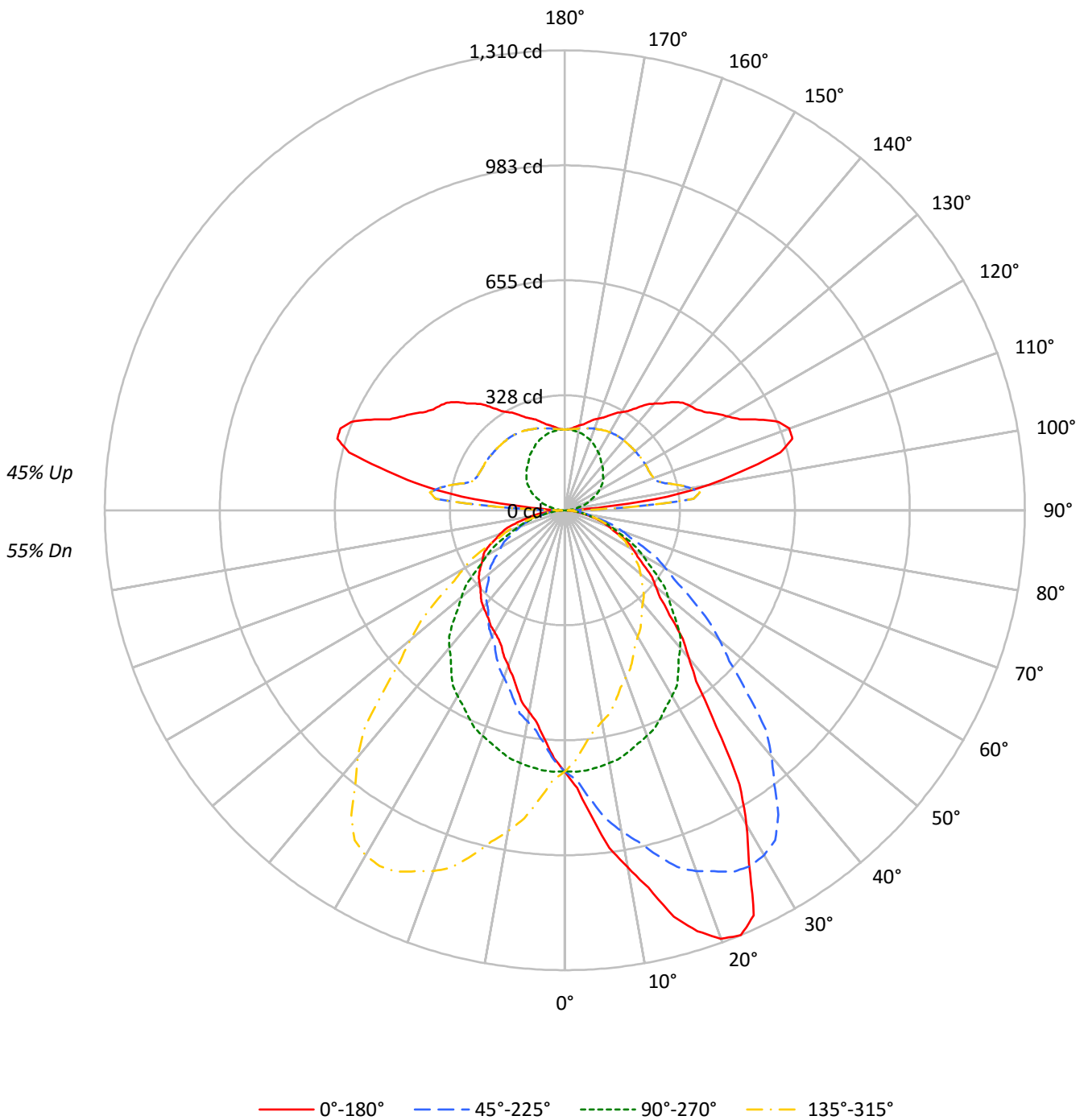
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55
1	99	95	91	88	92	88	85	82	76	74	71	65	63	61	54	53	52	47
2	91	83	77	72	84	77	72	68	67	63	59	57	54	52	48	46	44	40
3	83	73	66	60	77	68	62	57	59	54	50	51	47	44	43	40	38	34
4	76	65	57	51	70	61	54	48	53	47	43	45	41	38	38	35	33	29
5	70	58	50	44	65	54	47	42	47	42	37	41	36	33	35	31	29	26
6	64	52	44	38	60	49	42	36	43	37	33	37	32	29	32	28	25	23
7	60	47	39	34	55	44	37	32	39	33	29	34	29	26	29	25	23	20
8	55	43	35	30	51	40	33	29	35	30	26	31	26	23	27	23	20	18
9	52	39	32	27	48	37	30	26	33	27	23	28	24	21	24	21	18	16
10	48	36	29	24	45	34	27	23	30	25	21	26	22	19	23	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6006	6006	6006	6006
5°	7074	6022	5315	6022
10°	8470	5996	4786	5996
15°	10021	5935	4395	5935
20°	11159	5874	4046	5874
25°	11339	5782	3805	5782
30°	9648	5695	3730	5695
35°	7418	5552	3730	5552
40°	5782	5385	3800	5385
45°	4820	5134	3863	5134
50°	4243	4828	3995	4828
55°	3887	4460	4155	4460
60°	3643	4130	4350	4130
65°	3391	3761	4510	3761
70°	3099	3397	4612	3397
75°	2770	2991	4557	2991
80°	2320	2450	4412	2450
85°	1714	1769	4224	1769



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.5	1.9
10°-20°	223.4	6.0
20°-30°	354.3	9.5
30°-40°	394.3	10.6
40°-50°	358.9	9.6
50°-60°	293.3	7.9
60°-70°	209.4	5.6
70°-80°	115.3	3.1
80°-90°	32.7	0.9
90°-100°	166.1	4.5
100°-110°	345.8	9.3
110°-120°	309.7	8.3
120°-130°	260.5	7.0
130°-140°	217.2	5.8
140°-150°	166.0	4.5
150°-160°	116.6	3.1
160°-170°	68.6	1.8
170°-180°	22.3	0.6
0°-30°	650.2	17.4
0°-40°	1044.5	28.0
0°-60°	1696.7	45.5
0°-90°	2054.1	55.1
90°-120°	821.6	22.0
90°-150°	1465.3	39.3
90°-180°	1673.0	44.9
0°-180°	3727.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	744	744	744	744	744	
5°	873	743	656	743	873	89
15°	1199	710	526	710	1199	339
25°	1273	649	427	649	1273	561
35°	753	563	378	563	753	478
45°	422	450	338	450	422	333
55°	276	317	295	317	276	249
65°	178	197	236	197	178	176
75°	89	96	146	96	89	94
85°	18	19	46	19	18	23
90°	10	0	10	0	10	8
95°	110	15	110	15	110	171
105°	636	53	636	53	636	629
115°	610	93	610	93	610	606
125°	487	130	487	130	487	443
135°	436	154	436	154	436	336
145°	356	178	356	178	356	225
155°	298	202	298	202	298	139
165°	260	220	260	220	260	74
175°	234	230	234	230	234	23
180°	230	230	230	230	230	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0
2.5°	791.9	791.6	789.2	788.7	787.0	784.7	784.3	780.3	772.4	768.7	767.7
5°	872.9	879.1	871.0	869.5	868.5	858.4	853.2	847.0	832.8	824.5	818.0
7.5°	969.6	970.3	966.8	963.9	956.1	947.2	933.9	919.7	902.9	885.3	872.0
10°	1033.2	1035.6	1031.7	1031.0	1015.3	1005.4	985.7	969.1	949.9	928.7	909.3
12.5°	1100.3	1096.8	1094.7	1081.6	1078.6	1060.7	1037.8	1020.6	991.1	966.6	940.8
15°	1199.0	1192.2	1187.9	1169.7	1160.8	1135.8	1111.4	1092.7	1054.2	1017.5	989.7
17.5°	1257.0	1263.7	1253.7	1246.3	1223.1	1205.6	1180.7	1141.3	1111.1	1065.6	1030.5
20°	1298.9	1299.5	1294.0	1286.2	1268.0	1245.9	1218.7	1175.6	1139.5	1094.2	1046.1
22.5°	1310.2	1310.3	1308.0	1300.8	1287.0	1269.0	1241.7	1205.6	1162.0	1112.7	1064.6
25°	1273.0	1271.8	1274.5	1282.5	1277.3	1271.8	1256.0	1229.2	1188.5	1136.4	1084.7
27.5°	1134.6	1143.1	1158.8	1178.5	1197.5	1212.0	1216.1	1210.6	1185.3	1142.5	1088.3
30°	1035.0	1045.5	1057.2	1077.0	1115.2	1137.0	1161.1	1179.2	1169.1	1134.9	1084.3
32.5°	925.5	928.1	945.5	968.0	1003.0	1045.0	1083.2	1120.1	1132.3	1114.4	1072.2
35°	752.7	757.0	775.8	798.0	840.8	892.3	949.7	1000.8	1043.1	1060.0	1038.4
37.5°	614.3	626.6	639.8	663.7	701.5	747.8	807.4	873.5	936.5	978.7	985.8
40°	548.7	556.3	565.9	584.1	616.2	661.8	712.9	788.8	855.6	916.1	935.8
42.5°	496.9	501.4	507.2	523.6	548.1	593.4	640.2	706.9	774.0	846.3	879.3
45°	422.2	426.9	436.7	446.3	464.8	496.2	539.7	594.5	662.0	731.7	792.7
47.5°	368.4	371.4	377.2	387.5	403.1	423.9	459.2	505.0	567.6	635.3	700.3
50°	337.8	340.2	344.9	354.2	366.1	384.7	413.6	456.5	505.5	573.6	637.4
52.5°	313.6	314.7	318.1	324.3	333.9	349.4	373.2	408.6	454.2	514.9	578.5
55°	276.2	277.4	280.5	285.1	293.4	303.3	321.5	348.0	387.8	440.5	495.6
57.5°	245.3	246.2	248.8	250.6	257.5	265.5	279.4	298.3	328.5	373.2	422.5
60°	225.6	225.0	228.1	229.7	234.2	241.1	251.8	270.0	296.2	332.2	377.6
62.5°	206.4	205.5	208.1	210.2	212.8	218.6	227.4	241.6	262.9	295.6	334.7
65°	177.5	176.3	177.8	180.3	182.8	185.8	192.3	204.9	221.9	245.3	275.2
67.5°	148.5	149.9	150.1	151.3	152.7	156.9	161.4	170.3	182.3	201.1	226.3
70°	131.3	131.6	132.8	132.8	133.8	137.4	141.2	146.4	158.1	175.4	196.1
72.5°	114.1	115.3	114.9	115.8	116.5	119.0	121.7	126.7	136.7	149.5	166.9
75°	88.8	89.7	89.7	90.0	90.9	91.8	94.0	97.7	104.8	114.3	126.4
77.5°	64.7	64.9	65.3	66.4	66.4	67.9	69.5	72.4	76.0	82.5	89.8
80°	49.9	50.5	50.2	50.9	50.9	52.1	52.7	56.4	57.9	62.3	68.1
82.5°	36.6	37.2	37.2	38.0	38.5	38.7	39.6	41.1	42.6	46.5	48.9
85°	18.5	19.1	18.5	19.1	20.0	20.4	21.2	21.5	22.8	23.8	25.9
87.5°	7.3	8.1	8.2	8.3	8.7	9.0	9.1	8.8	9.7	10.0	10.9
90°	9.5	9.5	9.9	9.5	9.0	9.0	8.6	8.2	7.7	8.2	7.2
92.5°	34.8	34.8	36.4	38.7	44.1	53.2	66.8	88.7	119.4	143.3	125.5
95°	110.3	116.1	124.3	138.3	160.4	204.2	264.8	334.9	378.7	368.3	277.9
97.5°	294.7	304.1	317.7	344.9	377.3	424.5	468.7	494.7	475.8	387.9	260.2
100°	414.4	418.0	431.6	459.1	498.4	531.9	554.1	545.0	479.0	363.3	235.9
102.5°	518.5	521.4	535.7	555.6	579.8	593.7	587.3	542.5	451.9	332.6	219.6
105°	635.8	638.5	644.8	648.5	647.6	629.1	584.3	506.1	402.7	296.4	205.7
107.5°	679.4	678.2	673.7	663.4	641.0	600.8	537.7	454.6	362.9	276.2	203.1
110°	680.1	676.0	667.9	649.0	616.9	567.1	501.6	423.4	343.0	269.3	203.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	658.8	652.2	640.8	617.8	581.4	531.7	469.8	400.7	331.8	266.1	206.0
115°	610.5	606.9	592.5	565.3	529.7	486.2	433.4	377.8	321.3	264.4	210.2
117.5°	561.7	558.8	544.2	521.4	490.9	454.2	412.6	366.5	316.6	263.9	214.5
120°	534.2	529.2	517.5	497.6	471.7	439.7	403.5	361.6	314.1	263.9	217.9
122.5°	512.5	507.5	497.6	480.5	458.8	430.6	397.8	357.2	311.2	263.6	221.1
125°	487.1	484.4	475.9	462.7	444.7	419.8	388.6	349.7	306.4	263.0	225.9
127.5°	472.3	469.6	462.4	450.8	432.5	409.0	377.9	340.7	300.0	262.0	229.8
130°	463.7	461.0	453.7	442.4	423.9	399.9	369.2	333.5	296.0	261.7	232.7
132.5°	453.9	451.1	444.3	431.6	413.4	389.4	359.4	325.9	292.4	261.3	235.3
135°	435.6	432.9	425.7	413.0	395.0	372.3	344.8	315.4	286.9	260.7	239.1
137.5°	413.0	409.8	403.9	391.3	374.5	354.0	330.8	305.9	282.3	260.6	241.3
140°	396.8	393.2	386.8	376.9	361.1	342.1	321.8	300.5	279.7	260.3	243.1
142.5°	379.4	376.9	371.3	362.0	348.1	331.6	314.2	295.5	277.6	260.3	244.5
145°	355.6	353.4	348.9	341.2	329.9	317.3	303.6	288.3	273.9	259.4	245.4
147.5°	334.6	333.7	330.3	323.8	315.4	305.5	294.6	282.4	270.5	257.8	245.8
150°	322.7	322.2	319.5	313.6	306.4	298.3	289.2	278.8	268.0	256.7	245.8
152.5°	311.8	311.3	309.7	304.9	298.8	292.1	283.8	274.8	265.1	254.8	245.1
155°	297.8	297.8	296.4	292.9	288.3	282.9	276.1	268.9	260.7	252.2	244.0
157.5°	285.5	285.5	284.7	282.0	278.5	274.2	268.5	262.4	256.4	249.4	242.9
160°	277.9	277.9	277.5	274.7	272.0	268.4	263.5	258.5	253.1	247.2	241.8
162.5°	270.7	271.1	270.6	267.9	265.9	262.6	258.7	254.5	250.2	245.0	240.7
165°	259.8	260.3	260.7	259.0	257.1	254.8	251.7	249.0	245.4	241.8	238.6
167.5°	251.3	251.6	251.7	250.6	249.6	248.3	245.7	243.7	241.1	238.5	236.5
170°	245.8	245.8	246.3	245.8	244.9	243.6	241.8	240.4	238.1	236.3	235.0
172.5°	240.4	241.1	241.6	241.1	240.6	239.6	238.5	237.5	235.6	234.2	233.5
175°	234.1	235.0	235.9	235.0	235.0	235.0	234.1	233.6	232.7	231.8	231.8
177.5°	230.4	231.1	231.8	231.5	231.8	231.5	231.5	231.1	230.8	230.4	230.4
180°	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0
2.5°	767.9	764.5	762.1	760.1	754.6	751.5	749.0	745.5	741.6	737.4	732.2
5°	811.6	801.1	793.4	781.6	770.6	761.3	751.8	743.1	732.6	721.3	712.9
7.5°	857.4	841.8	821.8	804.5	785.0	768.0	752.9	737.4	721.2	705.5	691.2
10°	886.5	866.4	844.2	818.0	793.4	771.5	751.1	731.4	712.3	693.2	676.8
12.5°	917.7	892.8	860.0	829.3	801.8	772.5	747.9	723.7	700.7	680.6	661.6
15°	959.8	923.8	885.8	844.9	808.5	774.3	740.7	710.1	684.3	657.7	639.3
17.5°	985.6	941.0	897.7	854.8	810.8	767.6	731.4	696.2	663.8	637.5	614.2
20°	1002.7	958.3	904.4	861.5	809.1	764.7	722.8	683.7	649.7	621.7	597.6
22.5°	1017.5	966.1	912.2	855.8	803.7	756.5	710.7	671.3	636.7	607.1	584.1
25°	1025.5	966.6	908.0	851.9	792.7	737.0	695.4	649.1	612.1	581.0	556.3
27.5°	1026.4	963.4	897.1	834.8	773.7	721.8	669.2	627.9	589.5	556.6	532.9
30°	1023.6	958.0	886.8	819.3	758.0	701.5	655.9	610.9	571.7	539.1	514.4
32.5°	1014.9	946.6	873.5	802.0	738.5	683.3	636.2	593.4	555.2	523.1	497.2
35°	990.0	922.5	844.5	770.2	705.2	649.4	606.9	563.4	525.2	494.7	469.8
37.5°	951.0	889.9	810.7	733.8	669.9	613.9	571.7	532.5	498.0	467.0	441.4
40°	917.0	863.3	783.8	708.9	639.8	586.5	547.1	511.0	476.8	447.5	423.2
42.5°	877.7	831.0	757.6	678.3	611.7	558.2	519.8	487.4	455.1	428.1	403.7
45°	807.9	777.1	708.0	634.6	565.3	514.8	478.1	449.7	422.6	396.1	375.7
47.5°	727.5	712.2	654.0	584.4	518.6	468.7	437.0	410.7	387.0	364.5	346.6
50°	673.4	666.1	615.8	548.7	485.8	438.9	406.9	384.4	364.0	344.3	327.3
52.5°	620.2	620.0	574.6	513.1	455.0	409.8	378.0	357.0	339.4	323.3	308.1
55°	538.8	547.4	512.0	457.1	405.0	364.3	335.6	316.9	304.5	291.3	279.9
57.5°	464.0	478.3	449.1	400.8	357.3	319.8	294.9	280.7	267.6	259.6	251.3
60°	415.2	428.7	405.9	365.3	324.2	292.2	268.5	255.8	244.4	238.8	233.0
62.5°	371.8	383.9	366.9	329.2	293.7	262.8	242.8	230.7	223.0	216.9	213.0
65°	309.7	320.0	305.5	278.1	247.5	222.8	206.5	196.9	189.6	187.1	182.8
67.5°	250.4	259.7	251.8	228.5	204.1	185.4	172.6	163.4	159.1	156.9	153.8
70°	215.2	224.4	216.0	195.7	176.9	161.2	149.2	143.9	139.3	138.4	134.1
72.5°	185.3	191.6	183.2	167.4	151.3	138.0	128.7	123.3	120.8	119.1	116.8
75°	139.0	144.6	139.0	126.7	115.3	106.0	98.0	95.9	93.1	92.1	90.6
77.5°	98.4	103.2	98.9	91.3	82.7	75.6	71.3	68.5	67.9	66.3	67.0
80°	75.2	78.3	74.3	69.1	62.3	57.4	54.3	52.7	50.9	50.2	51.5
82.5°	54.0	55.4	53.3	49.8	44.8	41.5	39.5	37.6	37.3	37.4	37.4
85°	28.0	27.7	27.4	24.3	22.8	20.7	19.4	19.1	18.8	19.4	20.0
87.5°	10.6	10.9	10.1	9.1	8.2	7.4	6.9	6.5	6.9	7.4	7.8
90°	6.3	6.3	3.6	3.6	3.2	2.7	1.3	0.5	1.3	2.7	3.2
92.5°	91.3	56.2	33.3	23.8	17.3	11.7	7.5	5.1	7.5	11.7	17.3
95°	169.9	95.8	56.5	37.5	26.7	20.8	16.2	14.9	16.2	20.8	26.7
97.5°	152.7	91.6	61.3	45.4	36.0	30.7	26.8	26.8	26.8	30.7	36.0
100°	143.7	92.6	66.0	51.5	42.9	37.5	34.4	34.4	34.4	37.5	42.9
102.5°	141.2	96.3	72.1	58.4	50.1	45.1	42.3	41.6	42.3	45.1	50.1
105°	142.4	104.8	83.2	70.0	61.9	56.5	54.3	52.8	54.3	56.5	61.9
107.5°	149.0	114.9	95.0	82.1	74.3	68.5	66.2	65.4	66.2	68.5	74.3
110°	154.1	122.5	102.6	90.4	82.2	76.8	74.5	73.7	74.5	76.8	82.2



TEST NUMBER: P332546-927

CATALOG NUMBER: SA4XXDIP-C575D590U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	159.5	129.7	110.5	98.3	90.2	85.2	82.5	81.6	82.5	85.2	90.2
115°	168.1	141.0	122.9	110.7	102.1	97.6	94.4	93.1	94.4	97.6	102.1
117.5°	176.9	151.9	134.8	122.1	114.1	109.1	106.3	105.0	106.3	109.1	114.1
120°	183.0	159.5	142.4	129.7	122.0	117.0	113.9	113.0	113.9	117.0	122.0
122.5°	188.8	166.8	149.6	137.3	128.9	124.3	121.1	120.2	121.1	124.3	128.9
125°	197.5	176.7	160.4	147.7	139.2	134.2	131.5	129.7	131.5	134.2	139.2
127.5°	205.0	185.9	170.2	157.4	148.5	142.8	139.6	138.1	139.6	142.8	148.5
130°	209.7	192.0	176.7	163.6	155.0	148.2	144.6	142.8	144.6	148.2	155.0
132.5°	214.4	197.1	181.7	169.4	160.1	153.7	148.9	147.5	148.9	153.7	160.1
135°	220.5	204.2	189.3	177.6	168.1	160.4	155.9	154.1	155.9	160.4	168.1
137.5°	224.9	209.7	195.7	184.6	174.7	167.4	162.4	160.7	162.4	167.4	174.7
140°	227.8	213.3	199.7	188.9	179.4	171.7	166.8	165.4	166.8	171.7	179.4
142.5°	229.9	216.6	203.4	192.9	183.7	176.4	171.8	170.5	171.8	176.4	183.7
145°	232.3	220.1	208.3	198.4	189.8	183.5	179.0	177.6	179.0	183.5	189.8
147.5°	234.3	223.7	212.7	203.7	196.5	190.0	186.1	185.6	186.1	190.0	196.5
150°	235.4	225.5	215.6	207.0	200.2	194.8	191.2	190.7	191.2	194.8	200.2
152.5°	236.1	227.0	218.1	210.2	204.1	199.1	195.5	195.4	195.5	199.1	204.1
155°	236.8	229.1	221.4	214.7	209.7	205.2	202.5	202.0	202.5	205.2	209.7
157.5°	236.8	230.7	224.1	218.8	214.4	211.0	208.4	208.4	208.4	211.0	214.4
160°	236.8	231.4	225.9	220.9	217.4	214.2	212.4	212.4	212.4	214.2	217.4
162.5°	236.8	232.1	227.0	223.2	219.9	217.1	215.6	216.0	215.6	217.1	219.9
165°	235.9	232.3	228.2	225.5	223.2	220.9	220.1	220.1	220.1	220.9	223.2
167.5°	234.8	232.2	229.2	227.1	225.9	224.1	223.7	224.1	223.7	224.1	225.9
170°	234.1	231.8	229.6	228.2	227.3	225.9	225.5	225.9	225.5	225.9	227.3
172.5°	233.4	231.5	229.9	228.9	228.4	227.4	227.3	227.8	227.3	227.4	228.4
175°	232.3	230.9	230.0	230.0	229.6	229.1	229.1	229.6	229.1	229.1	229.6
177.5°	231.1	230.4	230.0	230.0	230.0	229.7	230.0	230.4	230.0	229.7	230.0
180°	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0



TEST NUMBER: P332546-927

CATALOG NUMBER: SA4XXDIP-C575D590U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0
2.5°	729.8	727.5	724.3	719.9	716.2	712.3	711.2	709.8	712.7	710.3	709.6
5°	705.8	699.3	691.0	681.5	676.0	667.9	666.4	663.3	660.2	659.9	656.8
7.5°	680.5	671.0	660.1	650.4	641.4	632.6	626.9	625.7	621.1	618.5	615.4
10°	664.2	652.5	639.8	630.7	620.1	610.9	604.4	600.7	597.6	594.2	591.2
12.5°	645.0	632.6	622.1	612.1	599.7	592.6	582.0	575.6	575.0	575.0	567.0
15°	622.6	610.3	594.2	580.1	573.3	559.8	553.9	546.4	541.9	537.3	533.5
17.5°	597.1	581.7	569.2	552.9	540.0	529.2	521.4	517.0	510.1	503.5	498.8
20°	581.0	564.7	551.4	534.2	520.0	506.8	500.3	494.1	488.9	483.3	478.1
22.5°	564.7	547.6	531.5	514.7	501.5	487.5	481.3	472.9	467.9	464.8	459.5
25°	539.1	520.6	502.1	486.1	472.5	460.2	451.9	445.4	439.8	437.4	434.0
27.5°	511.2	492.8	475.0	456.8	441.4	432.5	425.8	420.9	417.7	414.5	412.9
30°	493.5	474.4	455.3	438.3	424.1	415.2	409.0	405.6	403.1	401.6	400.1
32.5°	475.5	456.6	436.5	421.0	408.4	400.4	395.7	392.3	391.1	390.5	390.0
35°	446.6	427.5	409.0	395.1	383.1	380.0	376.0	374.1	373.6	375.7	376.7
37.5°	418.7	400.9	383.9	370.5	362.6	358.1	356.7	356.8	359.0	360.9	363.1
40°	400.7	383.4	367.4	355.7	348.3	345.5	344.9	346.4	348.9	351.1	353.6
42.5°	383.2	366.1	351.6	340.6	335.5	333.0	333.4	334.9	338.3	341.0	344.7
45°	356.0	341.8	327.6	318.7	314.4	315.0	315.0	317.7	321.2	325.2	329.2
47.5°	330.4	316.1	304.4	296.9	294.7	294.1	295.9	299.5	304.4	309.3	315.0
50°	313.1	299.6	289.4	282.7	280.2	281.1	283.6	286.9	292.8	299.0	304.8
52.5°	295.6	283.3	273.9	267.6	265.9	267.5	270.0	275.4	280.5	287.2	294.2
55°	268.5	258.0	250.6	246.0	245.3	246.3	249.1	254.9	262.3	270.6	277.4
57.5°	241.4	232.7	225.9	222.7	223.0	223.9	228.4	235.4	243.3	252.2	260.9
60°	223.2	215.2	209.6	207.2	207.5	209.3	214.8	221.3	231.2	239.8	249.1
62.5°	205.9	198.8	193.5	191.3	190.9	195.0	200.3	207.0	216.9	226.5	236.5
65°	178.2	172.6	168.3	167.1	167.9	171.0	177.8	186.8	195.1	205.3	215.8
67.5°	151.0	146.5	143.5	144.1	145.2	149.7	155.4	163.1	172.5	183.1	193.5
70°	133.8	129.4	127.0	127.3	129.1	134.7	139.7	147.3	157.5	168.3	176.9
72.5°	116.1	113.2	111.0	112.3	114.1	118.0	124.1	131.8	140.8	150.8	159.9
75°	89.0	89.0	87.9	88.8	91.6	95.2	99.9	107.9	116.8	124.8	132.2
77.5°	66.1	65.4	66.2	67.3	68.9	73.3	78.6	84.4	91.0	99.1	105.2
80°	50.5	50.9	52.4	54.3	54.9	58.2	63.8	69.1	74.3	81.0	86.9
82.5°	37.9	38.3	39.1	41.4	42.1	45.7	49.3	54.5	59.3	63.8	68.7
85°	20.7	20.7	22.2	23.1	24.6	27.1	29.3	32.4	36.7	39.8	44.4
87.5°	8.6	8.6	10.1	10.6	11.6	13.0	13.4	16.2	17.3	18.5	20.8
90°	3.6	3.6	6.3	6.3	7.2	8.2	7.7	8.2	8.6	9.0	9.0
92.5°	23.8	33.3	56.2	91.3	125.5	143.3	119.4	88.7	66.8	53.2	44.1
95°	37.5	56.5	95.8	169.9	277.9	368.3	378.7	334.9	264.8	204.2	160.4
97.5°	45.4	61.3	91.6	152.7	260.2	387.9	475.8	494.7	468.7	424.5	377.3
100°	51.5	66.0	92.6	143.7	235.9	363.3	479.0	545.0	554.1	531.9	498.4
102.5°	58.4	72.1	96.3	141.2	219.6	332.6	451.9	542.5	587.3	593.7	579.8
105°	70.0	83.2	104.8	142.4	205.7	296.4	402.7	506.1	584.3	629.1	647.6
107.5°	82.1	95.0	114.9	149.0	203.1	276.2	362.9	454.6	537.7	600.8	641.0
110°	90.4	102.6	122.5	154.1	203.8	269.3	343.0	423.4	501.6	567.1	616.9



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	98.3	110.5	129.7	159.5	206.0	266.1	331.8	400.7	469.8	531.7	581.4
115°	110.7	122.9	141.0	168.1	210.2	264.4	321.3	377.8	433.4	486.2	529.7
117.5°	122.1	134.8	151.9	176.9	214.5	263.9	316.6	366.5	412.6	454.2	490.9
120°	129.7	142.4	159.5	183.0	217.9	263.9	314.1	361.6	403.5	439.7	471.7
122.5°	137.3	149.6	166.8	188.8	221.1	263.6	311.2	357.2	397.8	430.6	458.8
125°	147.7	160.4	176.7	197.5	225.9	263.0	306.4	349.7	388.6	419.8	444.7
127.5°	157.4	170.2	185.9	205.0	229.8	262.0	300.0	340.7	377.9	409.0	432.5
130°	163.6	176.7	192.0	209.7	232.7	261.7	296.0	333.5	369.2	399.9	423.9
132.5°	169.4	181.7	197.1	214.4	235.3	261.3	292.4	325.9	359.4	389.4	413.4
135°	177.6	189.3	204.2	220.5	239.1	260.7	286.9	315.4	344.8	372.3	395.0
137.5°	184.6	195.7	209.7	224.9	241.3	260.6	282.3	305.9	330.8	354.0	374.5
140°	188.9	199.7	213.3	227.8	243.1	260.3	279.7	300.5	321.8	342.1	361.1
142.5°	192.9	203.4	216.6	229.9	244.5	260.3	277.6	295.5	314.2	331.6	348.1
145°	198.4	208.3	220.1	232.3	245.4	259.4	273.9	288.3	303.6	317.3	329.9
147.5°	203.7	212.7	223.7	234.3	245.8	257.8	270.5	282.4	294.6	305.5	315.4
150°	207.0	215.6	225.5	235.4	245.8	256.7	268.0	278.8	289.2	298.3	306.4
152.5°	210.2	218.1	227.0	236.1	245.1	254.8	265.1	274.8	283.8	292.1	298.8
155°	214.7	221.4	229.1	236.8	244.0	252.2	260.7	268.9	276.1	282.9	288.3
157.5°	218.8	224.1	230.7	236.8	242.9	249.4	256.4	262.4	268.5	274.2	278.5
160°	220.9	225.9	231.4	236.8	241.8	247.2	253.1	258.5	263.5	268.4	272.0
162.5°	223.2	227.0	232.1	236.8	240.7	245.0	250.2	254.5	258.7	262.6	265.9
165°	225.5	228.2	232.3	235.9	238.6	241.8	245.4	249.0	251.7	254.8	257.1
167.5°	227.1	229.2	232.2	234.8	236.5	238.5	241.1	243.7	245.7	248.3	249.6
170°	228.2	229.6	231.8	234.1	235.0	236.3	238.1	240.4	241.8	243.6	244.9
172.5°	228.9	229.9	231.5	233.4	233.5	234.2	235.6	237.5	238.5	239.6	240.6
175°	230.0	230.0	230.9	232.3	231.8	231.8	232.7	233.6	234.1	235.0	235.0
177.5°	230.0	230.0	230.4	231.1	230.4	230.4	230.8	231.1	231.5	231.5	231.8
180°	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0



TEST NUMBER: P332546-927

CATALOG NUMBER: SA4XXDIP-C575D590U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0
2.5°	709.0	708.5	706.8	706.5	706.8	708.5	709.0	709.6	710.3	712.7	709.8
5°	655.0	653.5	652.5	655.9	652.5	653.5	655.0	656.8	659.9	660.2	663.3
7.5°	614.3	613.0	610.3	609.4	610.3	613.0	614.3	615.4	618.5	621.1	625.7
10°	588.1	586.8	584.4	583.8	584.4	586.8	588.1	591.2	594.2	597.6	600.7
12.5°	562.9	560.5	560.0	560.6	560.0	560.5	562.9	567.0	575.0	575.0	575.6
15°	529.5	528.3	524.9	525.9	524.9	528.3	529.5	533.5	537.3	541.9	546.4
17.5°	496.6	495.1	491.0	494.6	491.0	495.1	496.6	498.8	503.5	510.1	517.0
20°	475.9	473.4	471.3	471.0	471.3	473.4	475.9	478.1	483.3	488.9	494.1
22.5°	456.1	453.9	453.8	451.7	453.8	453.9	456.1	459.5	464.8	467.9	472.9
25°	431.5	429.4	428.7	427.2	428.7	429.4	431.5	434.0	437.4	439.8	445.4
27.5°	412.6	411.5	410.4	410.9	410.4	411.5	412.6	412.9	414.5	417.7	420.9
30°	401.0	400.7	400.1	400.1	400.1	400.7	401.0	400.1	401.6	403.1	405.6
32.5°	391.4	391.3	391.7	391.7	391.7	391.3	391.4	390.0	390.5	391.1	392.3
35°	377.9	378.8	379.5	378.5	379.5	378.8	377.9	376.7	375.7	373.6	374.1
37.5°	365.7	366.6	367.5	368.5	367.5	366.6	365.7	363.1	360.9	359.0	356.8
40°	356.3	358.5	359.1	360.6	359.1	358.5	356.3	353.6	351.1	348.9	346.4
42.5°	347.5	349.8	351.4	351.7	351.4	349.8	347.5	344.7	341.0	338.3	334.9
45°	333.8	336.3	338.4	338.4	338.4	336.3	333.8	329.2	325.2	321.2	317.7
47.5°	319.7	323.3	325.4	326.0	325.4	323.3	319.7	315.0	309.3	304.4	299.5
50°	310.1	314.4	316.6	318.1	316.6	314.4	310.1	304.8	299.0	292.8	286.9
52.5°	300.7	305.0	307.9	308.7	307.9	305.0	300.7	294.2	287.2	280.5	275.4
55°	284.5	290.7	294.1	295.2	294.1	290.7	284.5	277.4	270.6	262.3	254.9
57.5°	269.2	274.9	278.8	279.7	278.8	274.9	269.2	260.9	252.2	243.3	235.4
60°	257.4	263.6	268.5	269.4	268.5	263.6	257.4	249.1	239.8	231.2	221.3
62.5°	245.3	251.7	256.1	258.6	256.1	251.7	245.3	236.5	226.5	216.9	207.0
65°	224.4	230.8	235.2	236.1	235.2	230.8	224.4	215.8	205.3	195.1	186.8
67.5°	201.6	208.0	210.9	212.7	210.9	208.0	201.6	193.5	183.1	172.5	163.1
70°	185.5	190.8	193.8	195.4	193.8	190.8	185.5	176.9	168.3	157.5	147.3
72.5°	167.3	172.8	176.3	176.7	176.3	172.8	167.3	159.9	150.8	140.8	131.8
75°	139.3	144.3	146.1	146.1	146.1	144.3	139.3	132.2	124.8	116.8	107.9
77.5°	110.3	112.8	115.2	115.7	115.2	112.8	110.3	105.2	99.1	91.0	84.4
80°	91.6	93.1	94.9	94.9	94.9	93.1	91.6	86.9	81.0	74.3	69.1
82.5°	72.3	73.6	75.4	75.2	75.4	73.6	72.3	68.7	63.8	59.3	54.5
85°	43.7	46.6	46.3	45.6	46.3	46.6	43.7	44.4	39.8	36.7	32.4
87.5°	21.6	21.9	22.6	23.1	22.6	21.9	21.6	20.8	18.5	17.3	16.2
90°	9.5	9.9	9.5	9.5	9.5	9.9	9.5	9.0	9.0	8.6	8.2
92.5°	38.7	36.4	34.8	34.8	34.8	36.4	38.7	44.1	53.2	66.8	88.7
95°	138.3	124.3	116.1	110.3	116.1	124.3	138.3	160.4	204.2	264.8	334.9
97.5°	344.9	317.7	304.1	294.7	304.1	317.7	344.9	377.3	424.5	468.7	494.7
100°	459.1	431.6	418.0	414.4	418.0	431.6	459.1	498.4	531.9	554.1	545.0
102.5°	555.6	535.7	521.4	518.5	521.4	535.7	555.6	579.8	593.7	587.3	542.5
105°	648.5	644.8	638.5	635.8	638.5	644.8	648.5	647.6	629.1	584.3	506.1
107.5°	663.4	673.7	678.2	679.4	678.2	673.7	663.4	641.0	600.8	537.7	454.6
110°	649.0	667.9	676.0	680.1	676.0	667.9	649.0	616.9	567.1	501.6	423.4



TEST NUMBER: P332546-927

CATALOG NUMBER: SA4XXDIP-C575D590U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	617.8	640.8	652.2	658.8	652.2	640.8	617.8	581.4	531.7	469.8	400.7
115°	565.3	592.5	606.9	610.5	606.9	592.5	565.3	529.7	486.2	433.4	377.8
117.5°	521.4	544.2	558.8	561.7	558.8	544.2	521.4	490.9	454.2	412.6	366.5
120°	497.6	517.5	529.2	534.2	529.2	517.5	497.6	471.7	439.7	403.5	361.6
122.5°	480.5	497.6	507.5	512.5	507.5	497.6	480.5	458.8	430.6	397.8	357.2
125°	462.7	475.9	484.4	487.1	484.4	475.9	462.7	444.7	419.8	388.6	349.7
127.5°	450.8	462.4	469.6	472.3	469.6	462.4	450.8	432.5	409.0	377.9	340.7
130°	442.4	453.7	461.0	463.7	461.0	453.7	442.4	423.9	399.9	369.2	333.5
132.5°	431.6	444.3	451.1	453.9	451.1	444.3	431.6	413.4	389.4	359.4	325.9
135°	413.0	425.7	432.9	435.6	432.9	425.7	413.0	395.0	372.3	344.8	315.4
137.5°	391.3	403.9	409.8	413.0	409.8	403.9	391.3	374.5	354.0	330.8	305.9
140°	376.9	386.8	393.2	396.8	393.2	386.8	376.9	361.1	342.1	321.8	300.5
142.5°	362.0	371.3	376.9	379.4	376.9	371.3	362.0	348.1	331.6	314.2	295.5
145°	341.2	348.9	353.4	355.6	353.4	348.9	341.2	329.9	317.3	303.6	288.3
147.5°	323.8	330.3	333.7	334.6	333.7	330.3	323.8	315.4	305.5	294.6	282.4
150°	313.6	319.5	322.2	322.7	322.2	319.5	313.6	306.4	298.3	289.2	278.8
152.5°	304.9	309.7	311.3	311.8	311.3	309.7	304.9	298.8	292.1	283.8	274.8
155°	292.9	296.4	297.8	297.8	297.8	296.4	292.9	288.3	282.9	276.1	268.9
157.5°	282.0	284.7	285.5	285.5	285.5	284.7	282.0	278.5	274.2	268.5	262.4
160°	274.7	277.5	277.9	277.9	277.9	277.5	274.7	272.0	268.4	263.5	258.5
162.5°	267.9	270.6	271.1	270.7	271.1	270.6	267.9	265.9	262.6	258.7	254.5
165°	259.0	260.7	260.3	259.8	260.3	260.7	259.0	257.1	254.8	251.7	249.0
167.5°	250.6	251.7	251.6	251.3	251.6	251.7	250.6	249.6	248.3	245.7	243.7
170°	245.8	246.3	245.8	245.8	245.8	246.3	245.8	244.9	243.6	241.8	240.4
172.5°	241.1	241.6	241.1	240.4	241.1	241.6	241.1	240.6	239.6	238.5	237.5
175°	235.0	235.9	235.0	234.1	235.0	235.9	235.0	235.0	235.0	234.1	233.6
177.5°	231.5	231.8	231.1	230.4	231.1	231.8	231.5	231.8	231.5	231.5	231.1
180°	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0



TEST NUMBER: P332546-927
 CATALOG NUMBER: SA4XXDIP-C575D590U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0
2.5°	711.2	712.3	716.2	719.9	724.3	727.5	729.8	732.2	737.4	741.6	745.5
5°	666.4	667.9	676.0	681.5	691.0	699.3	705.8	712.9	721.3	732.6	743.1
7.5°	626.9	632.6	641.4	650.4	660.1	671.0	680.5	691.2	705.5	721.2	737.4
10°	604.4	610.9	620.1	630.7	639.8	652.5	664.2	676.8	693.2	712.3	731.4
12.5°	582.0	592.6	599.7	612.1	622.1	632.6	645.0	661.6	680.6	700.7	723.7
15°	553.9	559.8	573.3	580.1	594.2	610.3	622.6	639.3	657.7	684.3	710.1
17.5°	521.4	529.2	540.0	552.9	569.2	581.7	597.1	614.2	637.5	663.8	696.2
20°	500.3	506.8	520.0	534.2	551.4	564.7	581.0	597.6	621.7	649.7	683.7
22.5°	481.3	487.5	501.5	514.7	531.5	547.6	564.7	584.1	607.1	636.7	671.3
25°	451.9	460.2	472.5	486.1	502.1	520.6	539.1	556.3	581.0	612.1	649.1
27.5°	425.8	432.5	441.4	456.8	475.0	492.8	511.2	532.9	556.6	589.5	627.9
30°	409.0	415.2	424.1	438.3	455.3	474.4	493.5	514.4	539.1	571.7	610.9
32.5°	395.7	400.4	408.4	421.0	436.5	456.6	475.5	497.2	523.1	555.2	593.4
35°	376.0	380.0	383.1	395.1	409.0	427.5	446.6	469.8	494.7	525.2	563.4
37.5°	356.7	358.1	362.6	370.5	383.9	400.9	418.7	441.4	467.0	498.0	532.5
40°	344.9	345.5	348.3	355.7	367.4	383.4	400.7	423.2	447.5	476.8	511.0
42.5°	333.4	333.0	335.5	340.6	351.6	366.1	383.2	403.7	428.1	455.1	487.4
45°	315.0	315.0	314.4	318.7	327.6	341.8	356.0	375.7	396.1	422.6	449.7
47.5°	295.9	294.1	294.7	296.9	304.4	316.1	330.4	346.6	364.5	387.0	410.7
50°	283.6	281.1	280.2	282.7	289.4	299.6	313.1	327.3	344.3	364.0	384.4
52.5°	270.0	267.5	265.9	267.6	273.9	283.3	295.6	308.1	323.3	339.4	357.0
55°	249.1	246.3	245.3	246.0	250.6	258.0	268.5	279.9	291.3	304.5	316.9
57.5°	228.4	223.9	223.0	222.7	225.9	232.7	241.4	251.3	259.6	267.6	280.7
60°	214.8	209.3	207.5	207.2	209.6	215.2	223.2	233.0	238.8	244.4	255.8
62.5°	200.3	195.0	190.9	191.3	193.5	198.8	205.9	213.0	216.9	223.0	230.7
65°	177.8	171.0	167.9	167.1	168.3	172.6	178.2	182.8	187.1	189.6	196.9
67.5°	155.4	149.7	145.2	144.1	143.5	146.5	151.0	153.8	156.9	159.1	163.4
70°	139.7	134.7	129.1	127.3	127.0	129.4	133.8	134.1	138.4	139.3	143.9
72.5°	124.1	118.0	114.1	112.3	111.0	113.2	116.1	116.8	119.1	120.8	123.3
75°	99.9	95.2	91.6	88.8	87.9	89.0	89.0	90.6	92.1	93.1	95.9
77.5°	78.6	73.3	68.9	67.3	66.2	65.4	66.1	67.0	66.3	67.9	68.5
80°	63.8	58.2	54.9	54.3	52.4	50.9	50.5	51.5	50.2	50.9	52.7
82.5°	49.3	45.7	42.1	41.4	39.1	38.3	37.9	37.4	37.4	37.3	37.6
85°	29.3	27.1	24.6	23.1	22.2	20.7	20.7	20.0	19.4	18.8	19.1
87.5°	13.4	13.0	11.6	10.6	10.1	8.6	8.6	7.8	7.4	6.9	6.5
90°	7.7	8.2	7.2	6.3	6.3	3.6	3.6	3.2	2.7	1.3	0.5
92.5°	119.4	143.3	125.5	91.3	56.2	33.3	23.8	17.3	11.7	7.5	5.1
95°	378.7	368.3	277.9	169.9	95.8	56.5	37.5	26.7	20.8	16.2	14.9
97.5°	475.8	387.9	260.2	152.7	91.6	61.3	45.4	36.0	30.7	26.8	26.8
100°	479.0	363.3	235.9	143.7	92.6	66.0	51.5	42.9	37.5	34.4	34.4
102.5°	451.9	332.6	219.6	141.2	96.3	72.1	58.4	50.1	45.1	42.3	41.6
105°	402.7	296.4	205.7	142.4	104.8	83.2	70.0	61.9	56.5	54.3	52.8
107.5°	362.9	276.2	203.1	149.0	114.9	95.0	82.1	74.3	68.5	66.2	65.4
110°	343.0	269.3	203.8	154.1	122.5	102.6	90.4	82.2	76.8	74.5	73.7



TEST NUMBER: P332546-927

CATALOG NUMBER: SA4XXDIP-C575D590U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	331.8	266.1	206.0	159.5	129.7	110.5	98.3	90.2	85.2	82.5	81.6
115°	321.3	264.4	210.2	168.1	141.0	122.9	110.7	102.1	97.6	94.4	93.1
117.5°	316.6	263.9	214.5	176.9	151.9	134.8	122.1	114.1	109.1	106.3	105.0
120°	314.1	263.9	217.9	183.0	159.5	142.4	129.7	122.0	117.0	113.9	113.0
122.5°	311.2	263.6	221.1	188.8	166.8	149.6	137.3	128.9	124.3	121.1	120.2
125°	306.4	263.0	225.9	197.5	176.7	160.4	147.7	139.2	134.2	131.5	129.7
127.5°	300.0	262.0	229.8	205.0	185.9	170.2	157.4	148.5	142.8	139.6	138.1
130°	296.0	261.7	232.7	209.7	192.0	176.7	163.6	155.0	148.2	144.6	142.8
132.5°	292.4	261.3	235.3	214.4	197.1	181.7	169.4	160.1	153.7	148.9	147.5
135°	286.9	260.7	239.1	220.5	204.2	189.3	177.6	168.1	160.4	155.9	154.1
137.5°	282.3	260.6	241.3	224.9	209.7	195.7	184.6	174.7	167.4	162.4	160.7
140°	279.7	260.3	243.1	227.8	213.3	199.7	188.9	179.4	171.7	166.8	165.4
142.5°	277.6	260.3	244.5	229.9	216.6	203.4	192.9	183.7	176.4	171.8	170.5
145°	273.9	259.4	245.4	232.3	220.1	208.3	198.4	189.8	183.5	179.0	177.6
147.5°	270.5	257.8	245.8	234.3	223.7	212.7	203.7	196.5	190.0	186.1	185.6
150°	268.0	256.7	245.8	235.4	225.5	215.6	207.0	200.2	194.8	191.2	190.7
152.5°	265.1	254.8	245.1	236.1	227.0	218.1	210.2	204.1	199.1	195.5	195.4
155°	260.7	252.2	244.0	236.8	229.1	221.4	214.7	209.7	205.2	202.5	202.0
157.5°	256.4	249.4	242.9	236.8	230.7	224.1	218.8	214.4	211.0	208.4	208.4
160°	253.1	247.2	241.8	236.8	231.4	225.9	220.9	217.4	214.2	212.4	212.4
162.5°	250.2	245.0	240.7	236.8	232.1	227.0	223.2	219.9	217.1	215.6	216.0
165°	245.4	241.8	238.6	235.9	232.3	228.2	225.5	223.2	220.9	220.1	220.1
167.5°	241.1	238.5	236.5	234.8	232.2	229.2	227.1	225.9	224.1	223.7	224.1
170°	238.1	236.3	235.0	234.1	231.8	229.6	228.2	227.3	225.9	225.5	225.9
172.5°	235.6	234.2	233.5	233.4	231.5	229.9	228.9	228.4	227.4	227.3	227.8
175°	232.7	231.8	231.8	232.3	230.9	230.0	230.0	229.6	229.1	229.1	229.6
177.5°	230.8	230.4	230.4	231.1	230.4	230.0	230.0	230.0	229.7	230.0	230.4
180°	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0



TEST NUMBER: P332546-927

CATALOG NUMBER: SA4XXDIP-C575D590U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0	744.0
2.5°	749.0	751.5	754.6	760.1	762.1	764.5	767.9	767.7	768.7	772.4	780.3
5°	751.8	761.3	770.6	781.6	793.4	801.1	811.6	818.0	824.5	832.8	847.0
7.5°	752.9	768.0	785.0	804.5	821.8	841.8	857.4	872.0	885.3	902.9	919.7
10°	751.1	771.5	793.4	818.0	844.2	866.4	886.5	909.3	928.7	949.9	969.1
12.5°	747.9	772.5	801.8	829.3	860.0	892.8	917.7	940.8	966.6	991.1	1020.6
15°	740.7	774.3	808.5	844.9	885.8	923.8	959.8	989.7	1017.5	1054.2	1092.7
17.5°	731.4	767.6	810.8	854.8	897.7	941.0	985.6	1030.5	1065.6	1111.1	1141.3
20°	722.8	764.7	809.1	861.5	904.4	958.3	1002.7	1046.1	1094.2	1139.5	1175.6
22.5°	710.7	756.5	803.7	855.8	912.2	966.1	1017.5	1064.6	1112.7	1162.0	1205.6
25°	695.4	737.0	792.7	851.9	908.0	966.6	1025.5	1084.7	1136.4	1188.5	1229.2
27.5°	669.2	721.8	773.7	834.8	897.1	963.4	1026.4	1088.3	1142.5	1185.3	1210.6
30°	655.9	701.5	758.0	819.3	886.8	958.0	1023.6	1084.3	1134.9	1169.1	1179.2
32.5°	636.2	683.3	738.5	802.0	873.5	946.6	1014.9	1072.2	1114.4	1132.3	1120.1
35°	606.9	649.4	705.2	770.2	844.5	922.5	990.0	1038.4	1060.0	1043.1	1000.8
37.5°	571.7	613.9	669.9	733.8	810.7	889.9	951.0	985.8	978.7	936.5	873.5
40°	547.1	586.5	639.8	708.9	783.8	863.3	917.0	935.8	916.1	855.6	788.8
42.5°	519.8	558.2	611.7	678.3	757.6	831.0	877.7	879.3	846.3	774.0	706.9
45°	478.1	514.8	565.3	634.6	708.0	777.1	807.9	792.7	731.7	662.0	594.5
47.5°	437.0	468.7	518.6	584.4	654.0	712.2	727.5	700.3	635.3	567.6	505.0
50°	406.9	438.9	485.8	548.7	615.8	666.1	673.4	637.4	573.6	505.5	456.5
52.5°	378.0	409.8	455.0	513.1	574.6	620.0	620.2	578.5	514.9	454.2	408.6
55°	335.6	364.3	405.0	457.1	512.0	547.4	538.8	495.6	440.5	387.8	348.0
57.5°	294.9	319.8	357.3	400.8	449.1	478.3	464.0	422.5	373.2	328.5	298.3
60°	268.5	292.2	324.2	365.3	405.9	428.7	415.2	377.6	332.2	296.2	270.0
62.5°	242.8	262.8	293.7	329.2	366.9	383.9	371.8	334.7	295.6	262.9	241.6
65°	206.5	222.8	247.5	278.1	305.5	320.0	309.7	275.2	245.3	221.9	204.9
67.5°	172.6	185.4	204.1	228.5	251.8	259.7	250.4	226.3	201.1	182.3	170.3
70°	149.2	161.2	176.9	195.7	216.0	224.4	215.2	196.1	175.4	158.1	146.4
72.5°	128.7	138.0	151.3	167.4	183.2	191.6	185.3	166.9	149.5	136.7	126.7
75°	98.0	106.0	115.3	126.7	139.0	144.6	139.0	126.4	114.3	104.8	97.7
77.5°	71.3	75.6	82.7	91.3	98.9	103.2	98.4	89.8	82.5	76.0	72.4
80°	54.3	57.4	62.3	69.1	74.3	78.3	75.2	68.1	62.3	57.9	56.4
82.5°	39.5	41.5	44.8	49.8	53.3	55.4	54.0	48.9	46.5	42.6	41.1
85°	19.4	20.7	22.8	24.3	27.4	27.7	28.0	25.9	23.8	22.8	21.5
87.5°	6.9	7.4	8.2	9.1	10.1	10.9	10.6	10.9	10.0	9.7	8.8
90°	1.3	2.7	3.2	3.6	3.6	6.3	6.3	7.2	8.2	7.7	8.2
92.5°	7.5	11.7	17.3	23.8	33.3	56.2	91.3	125.5	143.3	119.4	88.7
95°	16.2	20.8	26.7	37.5	56.5	95.8	169.9	277.9	368.3	378.7	334.9
97.5°	26.8	30.7	36.0	45.4	61.3	91.6	152.7	260.2	387.9	475.8	494.7
100°	34.4	37.5	42.9	51.5	66.0	92.6	143.7	235.9	363.3	479.0	545.0
102.5°	42.3	45.1	50.1	58.4	72.1	96.3	141.2	219.6	332.6	451.9	542.5
105°	54.3	56.5	61.9	70.0	83.2	104.8	142.4	205.7	296.4	402.7	506.1
107.5°	66.2	68.5	74.3	82.1	95.0	114.9	149.0	203.1	276.2	362.9	454.6
110°	74.5	76.8	82.2	90.4	102.6	122.5	154.1	203.8	269.3	343.0	423.4



TEST NUMBER: P332546-927

CATALOG NUMBER: SA4XXDIP-C575D590U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	82.5	85.2	90.2	98.3	110.5	129.7	159.5	206.0	266.1	331.8	400.7
115°	94.4	97.6	102.1	110.7	122.9	141.0	168.1	210.2	264.4	321.3	377.8
117.5°	106.3	109.1	114.1	122.1	134.8	151.9	176.9	214.5	263.9	316.6	366.5
120°	113.9	117.0	122.0	129.7	142.4	159.5	183.0	217.9	263.9	314.1	361.6
122.5°	121.1	124.3	128.9	137.3	149.6	166.8	188.8	221.1	263.6	311.2	357.2
125°	131.5	134.2	139.2	147.7	160.4	176.7	197.5	225.9	263.0	306.4	349.7
127.5°	139.6	142.8	148.5	157.4	170.2	185.9	205.0	229.8	262.0	300.0	340.7
130°	144.6	148.2	155.0	163.6	176.7	192.0	209.7	232.7	261.7	296.0	333.5
132.5°	148.9	153.7	160.1	169.4	181.7	197.1	214.4	235.3	261.3	292.4	325.9
135°	155.9	160.4	168.1	177.6	189.3	204.2	220.5	239.1	260.7	286.9	315.4
137.5°	162.4	167.4	174.7	184.6	195.7	209.7	224.9	241.3	260.6	282.3	305.9
140°	166.8	171.7	179.4	188.9	199.7	213.3	227.8	243.1	260.3	279.7	300.5
142.5°	171.8	176.4	183.7	192.9	203.4	216.6	229.9	244.5	260.3	277.6	295.5
145°	179.0	183.5	189.8	198.4	208.3	220.1	232.3	245.4	259.4	273.9	288.3
147.5°	186.1	190.0	196.5	203.7	212.7	223.7	234.3	245.8	257.8	270.5	282.4
150°	191.2	194.8	200.2	207.0	215.6	225.5	235.4	245.8	256.7	268.0	278.8
152.5°	195.5	199.1	204.1	210.2	218.1	227.0	236.1	245.1	254.8	265.1	274.8
155°	202.5	205.2	209.7	214.7	221.4	229.1	236.8	244.0	252.2	260.7	268.9
157.5°	208.4	211.0	214.4	218.8	224.1	230.7	236.8	242.9	249.4	256.4	262.4
160°	212.4	214.2	217.4	220.9	225.9	231.4	236.8	241.8	247.2	253.1	258.5
162.5°	215.6	217.1	219.9	223.2	227.0	232.1	236.8	240.7	245.0	250.2	254.5
165°	220.1	220.9	223.2	225.5	228.2	232.3	235.9	238.6	241.8	245.4	249.0
167.5°	223.7	224.1	225.9	227.1	229.2	232.2	234.8	236.5	238.5	241.1	243.7
170°	225.5	225.9	227.3	228.2	229.6	231.8	234.1	235.0	236.3	238.1	240.4
172.5°	227.3	227.4	228.4	228.9	229.9	231.5	233.4	233.5	234.2	235.6	237.5
175°	229.1	229.1	229.6	230.0	230.0	230.9	232.3	231.8	231.8	232.7	233.6
177.5°	230.0	229.7	230.0	230.0	230.0	230.4	231.1	230.4	230.4	230.8	231.1
180°	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0	230.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	744.0	744.0	744.0	744.0	744.0	744.0	744.0
2.5°	784.3	784.7	787.0	788.7	789.2	791.6	791.9
5°	853.2	858.4	868.5	869.5	871.0	879.1	872.9
7.5°	933.9	947.2	956.1	963.9	966.8	970.3	969.6
10°	985.7	1005.4	1015.3	1031.0	1031.7	1035.6	1033.2
12.5°	1037.8	1060.7	1078.6	1081.6	1094.7	1096.8	1100.3
15°	1111.4	1135.8	1160.8	1169.7	1187.9	1192.2	1199.0
17.5°	1180.7	1205.6	1223.1	1246.3	1253.7	1263.7	1257.0
20°	1218.7	1245.9	1268.0	1286.2	1294.0	1299.5	1298.9
22.5°	1241.7	1269.0	1287.0	1300.8	1308.0	1310.3	1310.2
25°	1256.0	1271.8	1277.3	1282.5	1274.5	1271.8	1273.0
27.5°	1216.1	1212.0	1197.5	1178.5	1158.8	1143.1	1134.6
30°	1161.1	1137.0	1115.2	1077.0	1057.2	1045.5	1035.0
32.5°	1083.2	1045.0	1003.0	968.0	945.5	928.1	925.5
35°	949.7	892.3	840.8	798.0	775.8	757.0	752.7
37.5°	807.4	747.8	701.5	663.7	639.8	626.6	614.3
40°	712.9	661.8	616.2	584.1	565.9	556.3	548.7
42.5°	640.2	593.4	548.1	523.6	507.2	501.4	496.9
45°	539.7	496.2	464.8	446.3	436.7	426.9	422.2
47.5°	459.2	423.9	403.1	387.5	377.2	371.4	368.4
50°	413.6	384.7	366.1	354.2	344.9	340.2	337.8
52.5°	373.2	349.4	333.9	324.3	318.1	314.7	313.6
55°	321.5	303.3	293.4	285.1	280.5	277.4	276.2
57.5°	279.4	265.5	257.5	250.6	248.8	246.2	245.3
60°	251.8	241.1	234.2	229.7	228.1	225.0	225.6
62.5°	227.4	218.6	212.8	210.2	208.1	205.5	206.4
65°	192.3	185.8	182.8	180.3	177.8	176.3	177.5
67.5°	161.4	156.9	152.7	151.3	150.1	149.9	148.5
70°	141.2	137.4	133.8	132.8	132.8	131.6	131.3
72.5°	121.7	119.0	116.5	115.8	114.9	115.3	114.1
75°	94.0	91.8	90.9	90.0	89.7	89.7	88.8
77.5°	69.5	67.9	66.4	66.4	65.3	64.9	64.7
80°	52.7	52.1	50.9	50.9	50.2	50.5	49.9
82.5°	39.6	38.7	38.5	38.0	37.2	37.2	36.6
85°	21.2	20.4	20.0	19.1	18.5	19.1	18.5
87.5°	9.1	9.0	8.7	8.3	8.2	8.1	7.3
90°	8.6	9.0	9.0	9.5	9.9	9.5	9.5
92.5°	66.8	53.2	44.1	38.7	36.4	34.8	34.8
95°	264.8	204.2	160.4	138.3	124.3	116.1	110.3
97.5°	468.7	424.5	377.3	344.9	317.7	304.1	294.7
100°	554.1	531.9	498.4	459.1	431.6	418.0	414.4
102.5°	587.3	593.7	579.8	555.6	535.7	521.4	518.5
105°	584.3	629.1	647.6	648.5	644.8	638.5	635.8
107.5°	537.7	600.8	641.0	663.4	673.7	678.2	679.4
110°	501.6	567.1	616.9	649.0	667.9	676.0	680.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	469.8	531.7	581.4	617.8	640.8	652.2	658.8
115°	433.4	486.2	529.7	565.3	592.5	606.9	610.5
117.5°	412.6	454.2	490.9	521.4	544.2	558.8	561.7
120°	403.5	439.7	471.7	497.6	517.5	529.2	534.2
122.5°	397.8	430.6	458.8	480.5	497.6	507.5	512.5
125°	388.6	419.8	444.7	462.7	475.9	484.4	487.1
127.5°	377.9	409.0	432.5	450.8	462.4	469.6	472.3
130°	369.2	399.9	423.9	442.4	453.7	461.0	463.7
132.5°	359.4	389.4	413.4	431.6	444.3	451.1	453.9
135°	344.8	372.3	395.0	413.0	425.7	432.9	435.6
137.5°	330.8	354.0	374.5	391.3	403.9	409.8	413.0
140°	321.8	342.1	361.1	376.9	386.8	393.2	396.8
142.5°	314.2	331.6	348.1	362.0	371.3	376.9	379.4
145°	303.6	317.3	329.9	341.2	348.9	353.4	355.6
147.5°	294.6	305.5	315.4	323.8	330.3	333.7	334.6
150°	289.2	298.3	306.4	313.6	319.5	322.2	322.7
152.5°	283.8	292.1	298.8	304.9	309.7	311.3	311.8
155°	276.1	282.9	288.3	292.9	296.4	297.8	297.8
157.5°	268.5	274.2	278.5	282.0	284.7	285.5	285.5
160°	263.5	268.4	272.0	274.7	277.5	277.9	277.9
162.5°	258.7	262.6	265.9	267.9	270.6	271.1	270.7
165°	251.7	254.8	257.1	259.0	260.7	260.3	259.8
167.5°	245.7	248.3	249.6	250.6	251.7	251.6	251.3
170°	241.8	243.6	244.9	245.8	246.3	245.8	245.8
172.5°	238.5	239.6	240.6	241.1	241.6	241.1	240.4
175°	234.1	235.0	235.0	235.0	235.9	235.0	234.1
177.5°	231.5	231.5	231.8	231.5	231.8	231.1	230.4
180°	230.0	230.0	230.0	230.0	230.0	230.0	230.0

(END OF REPORT)