

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: P332546-935

Luminaire Tested: **SA4XXDIP-C575D590U935-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332546-935
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-C575D590U935-4F0-1E-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

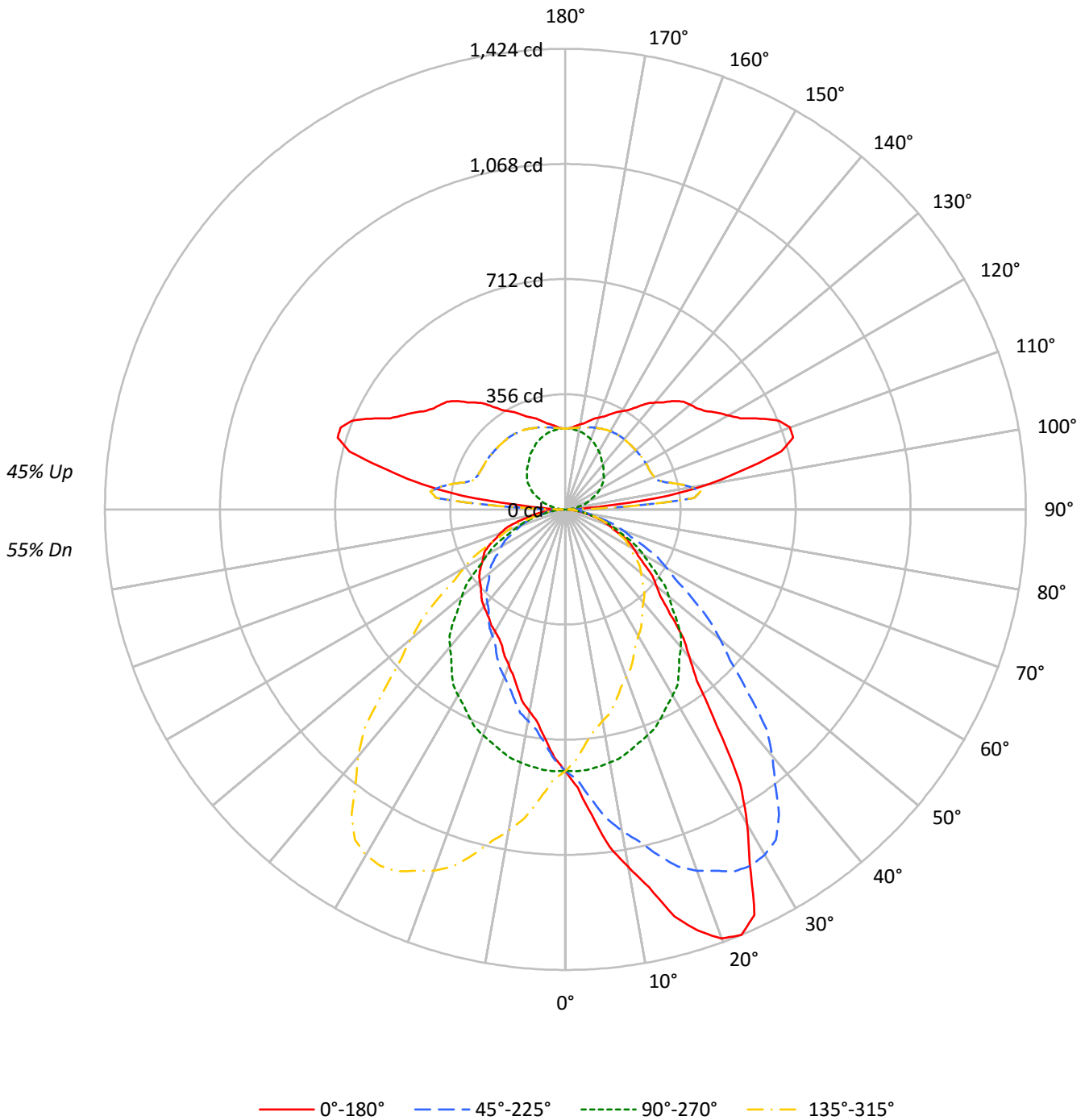
Lumens per Lamp: N/A
Luminaire Lumens: 4050.8 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

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°	6529	6529	6529	6529
5°	7688	6545	5777	6545
10°	9205	6517	5201	6517
15°	10891	6450	4776	6450
20°	12128	6383	4398	6383
25°	12324	6284	4136	6284
30°	10486	6190	4053	6190
35°	8062	6034	4054	6034
40°	6284	5853	4130	5853
45°	5239	5581	4199	5581
50°	4611	5247	4342	5247
55°	4224	4847	4517	4847
60°	3959	4489	4728	4489
65°	3687	4088	4902	4088
70°	3368	3692	5013	3692
75°	3010	3250	4953	3250
80°	2520	2664	4793	2664
85°	1862	1927	4594	1927



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.8	1.9
10°-20°	242.8	6.0
20°-30°	385.1	9.5
30°-40°	428.5	10.6
40°-50°	390.1	9.6
50°-60°	318.8	7.9
60°-70°	227.6	5.6
70°-80°	125.3	3.1
80°-90°	35.6	0.9
90°-100°	180.6	4.5
100°-110°	375.8	9.3
110°-120°	336.6	8.3
120°-130°	283.1	7.0
130°-140°	236.1	5.8
140°-150°	180.4	4.5
150°-160°	126.8	3.1
160°-170°	74.6	1.8
170°-180°	24.3	0.6
0°-30°	706.7	17.4
0°-40°	1135.2	28.0
0°-60°	1844.1	45.5
0°-90°	2232.6	55.1
90°-120°	893.0	22.0
90°-150°	1592.6	39.3
90°-180°	1818.0	44.9
0°-180°	4050.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	809	809	809	809	809	
5°	949	808	713	808	949	96
15°	1303	772	572	772	1303	368
25°	1384	706	464	706	1384	610
35°	818	612	411	612	818	519
45°	459	489	368	489	459	362
55°	300	344	321	344	300	271
65°	193	214	257	214	193	191
75°	96	104	159	104	96	103
85°	20	21	50	21	20	25
90°	10	0	10	0	10	9
95°	120	16	120	16	120	186
105°	691	57	691	57	691	683
115°	664	101	664	101	664	659
125°	529	141	529	141	529	481
135°	474	168	474	168	474	365
145°	386	193	386	193	386	245
155°	324	220	324	220	324	151
165°	282	239	282	239	282	81
175°	254	250	254	250	254	25
180°	250	250	250	250	250	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	808.7	808.7	808.7	808.7	808.7	808.7	808.7	808.7	808.7	808.7	808.7
2.5°	860.7	860.4	857.7	857.2	855.3	852.9	852.4	848.1	839.5	835.5	834.4
5°	948.7	955.5	946.7	945.0	944.0	933.0	927.3	920.6	905.2	896.1	889.1
7.5°	1053.8	1054.6	1050.8	1047.7	1039.1	1029.5	1015.0	999.6	981.3	962.2	947.8
10°	1122.9	1125.6	1121.3	1120.6	1103.5	1092.8	1071.3	1053.3	1032.4	1009.4	988.3
12.5°	1195.8	1192.1	1189.8	1175.5	1172.3	1152.8	1127.9	1109.2	1077.2	1050.6	1022.5
15°	1303.1	1295.8	1291.1	1271.4	1261.6	1234.5	1208.0	1187.6	1145.7	1105.9	1075.6
17.5°	1366.1	1373.5	1362.6	1354.5	1329.4	1310.4	1283.3	1240.4	1207.6	1158.1	1120.1
20°	1411.7	1412.4	1406.4	1397.9	1378.2	1354.1	1324.6	1277.7	1238.5	1189.2	1137.0
22.5°	1424.0	1424.2	1421.6	1413.8	1398.8	1379.2	1349.5	1310.4	1262.9	1209.4	1157.1
25°	1383.5	1382.2	1385.3	1394.0	1388.3	1382.2	1365.1	1336.0	1291.8	1235.1	1178.9
27.5°	1233.2	1242.4	1259.5	1280.9	1301.6	1317.2	1321.7	1315.8	1288.3	1241.7	1182.8
30°	1124.9	1136.3	1149.0	1170.5	1212.0	1235.8	1262.0	1281.7	1270.7	1233.5	1178.5
32.5°	1005.9	1008.7	1027.6	1052.1	1090.1	1135.8	1177.2	1217.4	1230.7	1211.3	1165.4
35°	818.0	822.8	843.2	867.3	913.9	969.8	1032.2	1087.7	1133.7	1152.1	1128.6
37.5°	667.6	681.1	695.4	721.3	762.4	812.8	877.5	949.4	1017.9	1063.7	1071.4
40°	596.3	604.7	615.1	634.8	669.7	719.3	774.8	857.3	930.0	995.7	1017.1
42.5°	540.0	544.9	551.3	569.1	595.7	645.0	695.8	768.3	841.3	919.8	955.7
45°	458.9	464.0	474.7	485.1	505.1	539.3	586.6	646.2	719.5	795.3	861.6
47.5°	400.4	403.6	410.0	421.1	438.2	460.7	499.1	548.9	616.9	690.4	761.1
50°	367.1	369.8	374.9	385.0	398.0	418.1	449.5	496.1	549.4	623.5	692.8
52.5°	340.9	342.0	345.7	352.5	362.9	379.8	405.6	444.1	493.7	559.6	628.7
55°	300.1	301.5	304.9	309.9	318.9	329.7	349.4	378.2	421.5	478.7	538.6
57.5°	266.7	267.6	270.4	272.3	279.8	288.5	303.7	324.3	357.1	405.6	459.2
60°	245.2	244.5	247.9	249.6	254.6	262.0	273.7	293.4	321.9	361.1	410.4
62.5°	224.3	223.3	226.2	228.4	231.3	237.5	247.2	262.6	285.8	321.2	363.8
65°	193.0	191.7	193.3	196.0	198.6	202.0	209.1	222.7	241.2	266.7	299.1
67.5°	161.4	162.9	163.2	164.5	166.0	170.6	175.4	185.1	198.1	218.5	246.0
70°	142.7	143.0	144.4	144.4	145.4	149.4	153.4	159.1	171.9	190.6	213.1
72.5°	124.0	125.4	124.8	125.9	126.7	129.3	132.2	137.7	148.5	162.5	181.4
75°	96.5	97.5	97.5	97.8	98.8	99.8	102.2	106.2	113.9	124.2	137.3
77.5°	70.3	70.5	70.9	72.2	72.2	73.8	75.5	78.7	82.6	89.6	97.6
80°	54.2	54.9	54.6	55.3	55.3	56.7	57.3	61.3	62.9	67.7	74.0
82.5°	39.8	40.5	40.4	41.3	41.8	42.1	43.0	44.7	46.3	50.5	53.1
85°	20.1	20.8	20.1	20.8	21.8	22.1	23.1	23.4	24.8	25.8	28.2
87.5°	7.9	8.8	8.9	9.0	9.5	9.7	9.9	9.6	10.5	10.8	11.8
90°	10.3	10.3	10.8	10.3	9.8	9.8	9.3	8.9	8.4	8.9	7.8
92.5°	37.8	37.8	39.5	42.1	48.0	57.8	72.6	96.4	129.8	155.8	136.4
95°	119.9	126.2	135.1	150.3	174.4	222.0	287.8	363.9	411.6	400.3	302.0
97.5°	320.3	330.5	345.3	374.9	410.1	461.4	509.5	537.7	517.1	421.6	282.8
100°	450.4	454.3	469.1	499.0	541.7	578.1	602.2	592.4	520.6	394.9	256.4
102.5°	563.5	566.7	582.2	603.9	630.2	645.3	638.3	589.6	491.1	361.5	238.7
105°	691.0	694.0	700.9	704.8	703.9	683.7	635.1	550.1	437.6	322.2	223.5
107.5°	738.4	737.1	732.2	721.0	696.7	653.0	584.4	494.0	394.4	300.2	220.8
110°	739.2	734.8	725.9	705.3	670.5	616.4	545.2	460.2	372.8	292.7	221.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	716.0	708.9	696.5	671.5	631.9	577.9	510.6	435.5	360.6	289.2	223.9
115°	663.6	659.6	643.9	614.4	575.7	528.5	471.1	410.6	349.2	287.3	228.4
117.5°	610.4	607.3	591.4	566.7	533.6	493.6	448.4	398.4	344.1	286.8	233.2
120°	580.6	575.1	562.4	540.8	512.7	477.9	438.6	393.0	341.4	286.8	236.8
122.5°	557.0	551.6	540.8	522.3	498.6	468.0	432.3	388.2	338.2	286.5	240.3
125°	529.4	526.5	517.2	502.9	483.3	456.2	422.4	380.1	333.0	285.9	245.6
127.5°	513.3	510.4	502.6	489.9	470.1	444.5	410.7	370.3	326.1	284.7	249.8
130°	503.9	501.0	493.1	480.9	460.7	434.6	401.3	362.5	321.7	284.4	253.0
132.5°	493.4	490.3	482.9	469.1	449.3	423.3	390.6	354.2	317.8	284.0	255.7
135°	473.5	470.5	462.7	448.9	429.3	404.7	374.8	342.9	311.9	283.4	259.8
137.5°	448.9	445.4	438.9	425.3	407.0	384.8	359.6	332.5	306.8	283.3	262.3
140°	431.3	427.3	420.4	409.7	392.4	371.8	349.7	326.6	304.0	282.9	264.2
142.5°	412.3	409.7	403.6	393.5	378.3	360.4	341.5	321.2	301.7	282.9	265.8
145°	386.5	384.1	379.2	370.8	358.5	344.8	330.0	313.3	297.6	281.9	266.7
147.5°	363.7	362.7	359.0	351.9	342.9	332.0	320.2	306.9	294.0	280.2	267.2
150°	350.7	350.2	347.2	340.9	333.0	324.2	314.4	303.1	291.3	279.0	267.2
152.5°	338.9	338.4	336.7	331.4	324.8	317.5	308.4	298.7	288.1	277.0	266.4
155°	323.6	323.6	322.2	318.3	313.3	307.5	300.1	292.2	283.4	274.1	265.2
157.5°	310.3	310.3	309.4	306.5	302.7	298.0	291.9	285.2	278.6	271.0	264.0
160°	302.0	302.0	301.6	298.6	295.7	291.7	286.4	280.9	275.1	268.6	262.8
162.5°	294.2	294.6	294.1	291.2	289.0	285.4	281.2	276.6	271.9	266.3	261.6
165°	282.4	282.9	283.4	281.5	279.5	277.0	273.5	270.6	266.7	262.8	259.3
167.5°	273.1	273.5	273.5	272.3	271.3	269.8	267.1	264.8	262.0	259.2	257.0
170°	267.2	267.2	267.7	267.2	266.2	264.8	262.8	261.3	258.8	256.8	255.4
172.5°	261.3	262.1	262.6	262.1	261.5	260.5	259.2	258.1	256.1	254.5	253.8
175°	254.4	255.4	256.4	255.4	255.4	255.4	254.4	253.9	253.0	251.9	251.9
177.5°	250.4	251.2	251.9	251.6	251.9	251.6	251.6	251.2	250.8	250.4	250.4
180°	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	808.7	808.7	808.7	808.7	808.7	808.7	808.7	808.7	808.7	808.7	808.7
2.5°	834.7	831.0	828.3	826.1	820.2	816.7	814.1	810.3	806.0	801.4	795.8
5°	882.1	870.6	862.3	849.5	837.5	827.4	817.1	807.7	796.3	783.9	774.8
7.5°	931.9	914.9	893.2	874.3	853.2	834.7	818.3	801.4	783.9	766.8	751.2
10°	963.5	941.7	917.6	889.1	862.3	838.5	816.4	795.0	774.2	753.4	735.6
12.5°	997.5	970.3	934.7	901.4	871.4	839.6	812.9	786.6	761.6	739.8	719.0
15°	1043.2	1004.0	962.8	918.3	878.7	841.5	805.0	771.8	743.7	714.9	694.8
17.5°	1071.3	1022.8	975.7	929.1	881.2	834.3	795.0	756.7	721.4	692.8	667.5
20°	1089.8	1041.6	982.9	936.3	879.3	831.1	785.6	743.0	706.2	675.7	649.5
22.5°	1105.9	1050.1	991.4	930.1	873.5	822.3	772.4	729.6	692.0	659.9	634.8
25°	1114.6	1050.6	986.9	925.9	861.6	801.0	755.8	705.5	665.3	631.5	604.7
27.5°	1115.5	1047.1	975.1	907.3	840.9	784.5	727.4	682.4	640.8	604.9	579.2
30°	1112.5	1041.2	963.8	890.4	823.8	762.4	712.9	664.0	621.4	585.9	559.1
32.5°	1103.1	1028.8	949.3	871.7	802.6	742.6	691.5	645.0	603.5	568.5	540.4
35°	1076.0	1002.6	917.9	837.2	766.5	705.8	659.6	612.3	570.8	537.7	510.6
37.5°	1033.6	967.2	881.1	797.5	728.1	667.3	621.4	578.8	541.3	507.6	479.7
40°	996.6	938.3	851.9	770.5	695.4	637.5	594.6	555.4	518.2	486.4	459.9
42.5°	954.0	903.2	823.5	737.3	664.9	606.7	564.9	529.7	494.6	465.3	438.8
45°	878.0	844.6	769.5	689.7	614.4	559.5	519.6	488.8	459.3	430.5	408.4
47.5°	790.7	774.0	710.8	635.2	563.6	509.5	474.9	446.4	420.6	396.1	376.7
50°	731.9	723.9	669.3	596.3	528.0	477.1	442.2	417.8	395.6	374.2	355.8
52.5°	674.1	673.8	624.6	557.7	494.5	445.4	410.9	388.0	368.9	351.4	334.8
55°	585.6	595.0	556.5	496.8	440.2	396.0	364.8	344.4	331.0	316.6	304.2
57.5°	504.3	519.9	488.1	435.6	388.3	347.6	320.5	305.1	290.8	282.1	273.1
60°	451.3	466.0	441.2	397.0	352.4	317.5	291.8	278.0	265.6	259.6	253.2
62.5°	404.1	417.2	398.8	357.8	319.2	285.7	263.9	250.7	242.4	235.7	231.5
65°	336.7	347.8	332.0	302.2	269.0	242.2	224.5	214.0	206.0	203.4	198.6
67.5°	272.2	282.2	273.7	248.4	221.8	201.5	187.6	177.6	172.9	170.5	167.2
70°	233.8	243.9	234.8	212.8	192.3	175.2	162.1	156.4	151.4	150.4	145.8
72.5°	201.4	208.3	199.1	181.9	164.5	150.0	139.9	134.0	131.3	129.5	127.0
75°	151.1	157.1	151.1	137.7	125.3	115.2	106.5	104.2	101.2	100.1	98.5
77.5°	106.9	112.2	107.5	99.2	89.9	82.1	77.5	74.5	73.8	72.1	72.8
80°	81.7	85.1	80.8	75.1	67.7	62.3	59.0	57.3	55.3	54.6	56.0
82.5°	58.7	60.2	57.9	54.2	48.6	45.1	42.9	40.9	40.6	40.6	40.6
85°	30.5	30.1	29.8	26.4	24.8	22.5	21.1	20.8	20.4	21.1	21.8
87.5°	11.5	11.8	10.9	9.9	9.0	8.1	7.5	7.1	7.5	8.1	8.4
90°	6.9	6.9	4.0	4.0	3.4	2.9	1.5	0.5	1.5	2.9	3.4
92.5°	99.2	61.1	36.2	25.9	18.8	12.7	8.2	5.6	8.2	12.7	18.8
95°	184.7	104.1	61.4	40.7	29.0	22.6	17.7	16.2	17.7	22.6	29.0
97.5°	166.0	99.5	66.6	49.3	39.2	33.3	29.1	29.1	29.1	33.3	39.2
100°	156.2	100.7	71.7	56.0	46.7	40.7	37.4	37.4	37.4	40.7	46.7
102.5°	153.4	104.6	78.4	63.5	54.5	49.0	46.0	45.2	46.0	49.0	54.5
105°	154.7	113.9	90.4	76.1	67.3	61.4	59.0	57.4	59.0	61.4	67.3
107.5°	162.0	124.8	103.2	89.2	80.8	74.5	72.0	71.0	72.0	74.5	80.8
110°	167.5	133.1	111.5	98.2	89.4	83.5	81.0	80.1	81.0	83.5	89.4



TEST NUMBER: P332546-935

CATALOG NUMBER: SA4XXDIP-C575D590U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	173.4	140.9	120.1	106.9	98.1	92.6	89.7	88.7	89.7	92.6	98.1
115°	182.7	153.3	133.6	120.4	111.0	106.1	102.6	101.2	102.6	106.1	111.0
117.5°	192.3	165.1	146.5	132.7	124.0	118.6	115.5	114.2	115.5	118.6	124.0
120°	198.9	173.4	154.7	140.9	132.6	127.2	123.8	122.8	123.8	127.2	132.6
122.5°	205.2	181.2	162.6	149.2	140.1	135.1	131.6	130.6	131.6	135.1	140.1
125°	214.6	192.0	174.4	160.6	151.3	145.9	142.9	140.9	142.9	145.9	151.3
127.5°	222.8	202.1	184.9	171.1	161.4	155.2	151.7	150.1	151.7	155.2	161.4
130°	227.9	208.7	192.0	177.8	168.5	161.1	157.1	155.2	157.1	161.1	168.5
132.5°	233.0	214.2	197.5	184.1	174.0	167.0	161.9	160.3	161.9	167.0	174.0
135°	239.7	222.0	205.8	193.0	182.7	174.4	169.4	167.5	169.4	174.4	182.7
137.5°	244.4	227.9	212.8	200.6	189.9	181.9	176.5	174.7	176.5	181.9	189.9
140°	247.5	231.9	217.1	205.3	195.0	186.7	181.2	179.8	181.2	186.7	195.0
142.5°	249.9	235.4	221.0	209.7	199.7	191.7	186.8	185.3	186.8	191.7	199.7
145°	252.4	239.2	226.4	215.6	206.3	199.4	194.5	193.0	194.5	199.4	206.3
147.5°	254.7	243.1	231.2	221.4	213.6	206.6	202.2	201.7	202.2	206.6	213.6
150°	255.9	245.1	234.3	225.0	217.6	211.7	207.8	207.2	207.8	211.7	217.6
152.5°	256.7	246.7	237.0	228.5	221.9	216.4	212.5	212.4	212.5	216.4	221.9
155°	257.4	249.0	240.6	233.3	227.9	223.0	220.1	219.6	220.1	223.0	227.9
157.5°	257.4	250.7	243.6	237.8	233.1	229.3	226.5	226.5	226.5	229.3	233.1
160°	257.4	251.5	245.6	240.1	236.3	232.8	230.8	230.8	230.8	232.8	236.3
162.5°	257.4	252.3	246.8	242.5	239.0	235.9	234.4	234.8	234.4	235.9	239.0
165°	256.4	252.4	248.1	245.1	242.6	240.1	239.2	239.2	239.2	240.1	242.6
167.5°	255.2	252.4	249.1	246.8	245.5	243.6	243.1	243.6	243.1	243.6	245.5
170°	254.4	251.9	249.5	248.1	247.0	245.6	245.1	245.6	245.1	245.6	247.0
172.5°	253.7	251.6	249.9	248.8	248.2	247.1	247.0	247.5	247.0	247.1	248.2
175°	252.4	251.0	250.0	250.0	249.5	249.0	249.0	249.5	249.0	249.0	249.5
177.5°	251.2	250.4	250.0	250.0	250.0	249.6	250.0	250.4	250.0	249.6	250.0
180°	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0



TEST NUMBER: P332546-935

CATALOG NUMBER: SA4XXDIP-C575D590U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	808.7	808.7	808.7	808.7	808.7	808.7	808.7	808.7	808.7	808.7	808.7
2.5°	793.2	790.7	787.2	782.4	778.4	774.1	773.0	771.5	774.6	772.0	771.2
5°	767.2	760.1	751.1	740.7	734.7	725.9	724.3	720.9	717.6	717.2	713.9
7.5°	739.6	729.3	717.5	706.9	697.1	687.6	681.3	680.0	675.0	672.2	668.8
10°	721.9	709.2	695.4	685.4	674.0	664.0	656.9	652.9	649.5	645.8	642.6
12.5°	701.0	687.5	676.1	665.3	651.8	644.1	632.6	625.6	624.9	625.0	616.3
15°	676.7	663.3	645.8	630.5	623.1	608.4	602.0	593.9	588.9	583.9	579.9
17.5°	648.9	632.2	618.6	600.9	586.9	575.1	566.7	561.9	554.4	547.3	542.1
20°	631.5	613.7	599.3	580.6	565.2	550.8	543.7	537.0	531.3	525.3	519.6
22.5°	613.8	595.2	577.6	559.4	545.0	529.9	523.1	513.9	508.5	505.1	499.5
25°	585.9	565.8	545.7	528.3	513.6	500.2	491.1	484.1	478.0	475.4	471.7
27.5°	555.6	535.6	516.3	496.5	479.7	470.0	462.8	457.4	454.0	450.5	448.8
30°	536.3	515.6	494.8	476.4	461.0	451.3	444.5	440.8	438.2	436.5	434.8
32.5°	516.8	496.3	474.4	457.6	443.8	435.1	430.1	426.4	425.1	424.5	423.9
35°	485.4	464.7	444.5	429.5	416.4	413.0	408.7	406.7	406.0	408.4	409.4
37.5°	455.0	435.8	417.2	402.7	394.1	389.2	387.7	387.8	390.2	392.3	394.7
40°	435.5	416.7	399.3	386.6	378.6	375.6	374.9	376.5	379.2	381.6	384.3
42.5°	416.5	398.0	382.2	370.2	364.6	361.9	362.3	363.9	367.7	370.6	374.6
45°	386.9	371.5	356.1	346.4	341.7	342.3	342.3	345.3	349.0	353.4	357.7
47.5°	359.1	343.5	330.9	322.7	320.3	319.7	321.6	325.5	330.9	336.2	342.3
50°	340.4	325.6	314.5	307.2	304.5	305.5	308.2	311.9	318.2	324.9	331.3
52.5°	321.3	307.9	297.6	290.8	289.0	290.8	293.4	299.3	304.9	312.1	319.8
55°	291.8	280.4	272.3	267.3	266.7	267.7	270.7	277.1	285.1	294.1	301.5
57.5°	262.3	252.9	245.5	242.0	242.4	243.3	248.2	255.8	264.4	274.1	283.5
60°	242.5	233.8	227.8	225.2	225.5	227.5	233.5	240.6	251.2	260.6	270.7
62.5°	223.8	216.1	210.3	207.9	207.5	211.9	217.7	225.0	235.7	246.2	257.0
65°	193.6	187.6	182.9	181.6	182.5	185.9	193.3	203.0	212.1	223.1	234.5
67.5°	164.1	159.2	156.0	156.6	157.8	162.7	168.9	177.3	187.5	199.0	210.3
70°	145.4	140.7	138.0	138.4	140.3	146.4	151.8	160.1	171.2	182.9	192.3
72.5°	126.1	123.0	120.6	122.0	124.0	128.2	134.8	143.3	153.0	163.8	173.8
75°	96.8	96.8	95.5	96.5	99.5	103.5	108.6	117.3	127.0	135.7	143.7
77.5°	71.8	71.1	72.0	73.2	74.9	79.6	85.4	91.7	98.9	107.7	114.3
80°	54.9	55.3	56.9	59.0	59.7	63.3	69.3	75.1	80.8	88.1	94.5
82.5°	41.2	41.6	42.4	45.0	45.7	49.7	53.6	59.2	64.4	69.3	74.6
85°	22.5	22.5	24.1	25.1	26.8	29.4	31.9	35.2	39.9	43.2	48.2
87.5°	9.4	9.4	11.0	11.5	12.6	14.1	14.6	17.6	18.8	20.1	22.6
90°	4.0	4.0	6.9	6.9	7.8	8.9	8.4	8.9	9.3	9.8	9.8
92.5°	25.9	36.2	61.1	99.2	136.4	155.8	129.8	96.4	72.6	57.8	48.0
95°	40.7	61.4	104.1	184.7	302.0	400.3	411.6	363.9	287.8	222.0	174.4
97.5°	49.3	66.6	99.5	166.0	282.8	421.6	517.1	537.7	509.5	461.4	410.1
100°	56.0	71.7	100.7	156.2	256.4	394.9	520.6	592.4	602.2	578.1	541.7
102.5°	63.5	78.4	104.6	153.4	238.7	361.5	491.1	589.6	638.3	645.3	630.2
105°	76.1	90.4	113.9	154.7	223.5	322.2	437.6	550.1	635.1	683.7	703.9
107.5°	89.2	103.2	124.8	162.0	220.8	300.2	394.4	494.0	584.4	653.0	696.7
110°	98.2	111.5	133.1	167.5	221.5	292.7	372.8	460.2	545.2	616.4	670.5



TEST NUMBER: P332546-935

CATALOG NUMBER: SA4XXDIP-C575D590U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	106.9	120.1	140.9	173.4	223.9	289.2	360.6	435.5	510.6	577.9	631.9
115°	120.4	133.6	153.3	182.7	228.4	287.3	349.2	410.6	471.1	528.5	575.7
117.5°	132.7	146.5	165.1	192.3	233.2	286.8	344.1	398.4	448.4	493.6	533.6
120°	140.9	154.7	173.4	198.9	236.8	286.8	341.4	393.0	438.6	477.9	512.7
122.5°	149.2	162.6	181.2	205.2	240.3	286.5	338.2	388.2	432.3	468.0	498.6
125°	160.6	174.4	192.0	214.6	245.6	285.9	333.0	380.1	422.4	456.2	483.3
127.5°	171.1	184.9	202.1	222.8	249.8	284.7	326.1	370.3	410.7	444.5	470.1
130°	177.8	192.0	208.7	227.9	253.0	284.4	321.7	362.5	401.3	434.6	460.7
132.5°	184.1	197.5	214.2	233.0	255.7	284.0	317.8	354.2	390.6	423.3	449.3
135°	193.0	205.8	222.0	239.7	259.8	283.4	311.9	342.9	374.8	404.7	429.3
137.5°	200.6	212.8	227.9	244.4	262.3	283.3	306.8	332.5	359.6	384.8	407.0
140°	205.3	217.1	231.9	247.5	264.2	282.9	304.0	326.6	349.7	371.8	392.4
142.5°	209.7	221.0	235.4	249.9	265.8	282.9	301.7	321.2	341.5	360.4	378.3
145°	215.6	226.4	239.2	252.4	266.7	281.9	297.6	313.3	330.0	344.8	358.5
147.5°	221.4	231.2	243.1	254.7	267.2	280.2	294.0	306.9	320.2	332.0	342.9
150°	225.0	234.3	245.1	255.9	267.2	279.0	291.3	303.1	314.4	324.2	333.0
152.5°	228.5	237.0	246.7	256.7	266.4	277.0	288.1	298.7	308.4	317.5	324.8
155°	233.3	240.6	249.0	257.4	265.2	274.1	283.4	292.2	300.1	307.5	313.3
157.5°	237.8	243.6	250.7	257.4	264.0	271.0	278.6	285.2	291.9	298.0	302.7
160°	240.1	245.6	251.5	257.4	262.8	268.6	275.1	280.9	286.4	291.7	295.7
162.5°	242.5	246.8	252.3	257.4	261.6	266.3	271.9	276.6	281.2	285.4	289.0
165°	245.1	248.1	252.4	256.4	259.3	262.8	266.7	270.6	273.5	277.0	279.5
167.5°	246.8	249.1	252.4	255.2	257.0	259.2	262.0	264.8	267.1	269.8	271.3
170°	248.1	249.5	251.9	254.4	255.4	256.8	258.8	261.3	262.8	264.8	266.2
172.5°	248.8	249.9	251.6	253.7	253.8	254.5	256.1	258.1	259.2	260.5	261.5
175°	250.0	250.0	251.0	252.4	251.9	251.9	253.0	253.9	254.4	255.4	255.4
177.5°	250.0	250.0	250.4	251.2	250.4	250.4	250.8	251.2	251.6	251.6	251.9
180°	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0



TEST NUMBER: P332546-935

CATALOG NUMBER: SA4XXDIP-C575D590U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	808.7	808.7	808.7	808.7	808.7	808.7	808.7	808.7	808.7	808.7	808.7
2.5°	770.6	770.1	768.2	767.9	768.2	770.1	770.6	771.2	772.0	774.6	771.5
5°	711.9	710.2	709.2	712.9	709.2	710.2	711.9	713.9	717.2	717.6	720.9
7.5°	667.6	666.2	663.3	662.4	663.3	666.2	667.6	668.8	672.2	675.0	680.0
10°	639.2	637.8	635.2	634.5	635.2	637.8	639.2	642.6	645.8	649.5	652.9
12.5°	611.8	609.2	608.6	609.3	608.6	609.2	611.8	616.3	625.0	624.9	625.6
15°	575.5	574.2	570.5	571.5	570.5	574.2	575.5	579.9	583.9	588.9	593.9
17.5°	539.8	538.1	533.6	537.6	533.6	538.1	539.8	542.1	547.3	554.4	561.9
20°	517.2	514.5	512.2	511.9	512.2	514.5	517.2	519.6	525.3	531.3	537.0
22.5°	495.8	493.4	493.2	490.9	493.2	493.4	495.8	499.5	505.1	508.5	513.9
25°	469.0	466.7	466.0	464.3	466.0	466.7	469.0	471.7	475.4	478.0	484.1
27.5°	448.4	447.3	446.1	446.6	446.1	447.3	448.4	448.8	450.5	454.0	457.4
30°	435.8	435.5	434.8	434.8	434.8	435.5	435.8	434.8	436.5	438.2	440.8
32.5°	425.4	425.3	425.7	425.7	425.7	425.3	425.4	423.9	424.5	425.1	426.4
35°	410.7	411.7	412.4	411.4	412.4	411.7	410.7	409.4	408.4	406.0	406.7
37.5°	397.4	398.5	399.4	400.5	399.4	398.5	397.4	394.7	392.3	390.2	387.8
40°	387.3	389.6	390.3	391.9	390.3	389.6	387.3	384.3	381.6	379.2	376.5
42.5°	377.6	380.2	381.9	382.3	381.9	380.2	377.6	374.6	370.6	367.7	363.9
45°	362.8	365.5	367.8	367.8	367.8	365.5	362.8	357.7	353.4	349.0	345.3
47.5°	347.5	351.4	353.7	354.3	353.7	351.4	347.5	342.3	336.2	330.9	325.5
50°	337.0	341.7	344.1	345.7	344.1	341.7	337.0	331.3	324.9	318.2	311.9
52.5°	326.8	331.5	334.7	335.5	334.7	331.5	326.8	319.8	312.1	304.9	299.3
55°	309.2	315.9	319.6	320.9	319.6	315.9	309.2	301.5	294.1	285.1	277.1
57.5°	292.6	298.8	303.1	304.0	303.1	298.8	292.6	283.5	274.1	264.4	255.8
60°	279.7	286.5	291.8	292.8	291.8	286.5	279.7	270.7	260.6	251.2	240.6
62.5°	266.6	273.5	278.4	281.0	278.4	273.5	266.6	257.0	246.2	235.7	225.0
65°	243.9	250.9	255.6	256.6	255.6	250.9	243.9	234.5	223.1	212.1	203.0
67.5°	219.1	226.1	229.2	231.2	229.2	226.1	219.1	210.3	199.0	187.5	177.3
70°	201.6	207.3	210.7	212.4	210.7	207.3	201.6	192.3	182.9	171.2	160.1
72.5°	181.8	187.8	191.7	192.0	191.7	187.8	181.8	173.8	163.8	153.0	143.3
75°	151.4	156.8	158.8	158.8	158.8	156.8	151.4	143.7	135.7	127.0	117.3
77.5°	119.9	122.6	125.2	125.7	125.2	122.6	119.9	114.3	107.7	98.9	91.7
80°	99.5	101.2	103.1	103.1	103.1	101.2	99.5	94.5	88.1	80.8	75.1
82.5°	78.6	80.0	82.0	81.7	82.0	80.0	78.6	74.6	69.3	64.4	59.2
85°	47.5	50.6	50.3	49.6	50.3	50.6	47.5	48.2	43.2	39.9	35.2
87.5°	23.5	23.8	24.5	25.1	24.5	23.8	23.5	22.6	20.1	18.8	17.6
90°	10.3	10.8	10.3	10.3	10.3	10.8	10.3	9.8	9.8	9.3	8.9
92.5°	42.1	39.5	37.8	37.8	37.8	39.5	42.1	48.0	57.8	72.6	96.4
95°	150.3	135.1	126.2	119.9	126.2	135.1	150.3	174.4	222.0	287.8	363.9
97.5°	374.9	345.3	330.5	320.3	330.5	345.3	374.9	410.1	461.4	509.5	537.7
100°	499.0	469.1	454.3	450.4	454.3	469.1	499.0	541.7	578.1	602.2	592.4
102.5°	603.9	582.2	566.7	563.5	566.7	582.2	603.9	630.2	645.3	638.3	589.6
105°	704.8	700.9	694.0	691.0	694.0	700.9	704.8	703.9	683.7	635.1	550.1
107.5°	721.0	732.2	737.1	738.4	737.1	732.2	721.0	696.7	653.0	584.4	494.0
110°	705.3	725.9	734.8	739.2	734.8	725.9	705.3	670.5	616.4	545.2	460.2



TEST NUMBER: P332546-935

CATALOG NUMBER: SA4XXDIP-C575D590U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	671.5	696.5	708.9	716.0	708.9	696.5	671.5	631.9	577.9	510.6	435.5
115°	614.4	643.9	659.6	663.6	659.6	643.9	614.4	575.7	528.5	471.1	410.6
117.5°	566.7	591.4	607.3	610.4	607.3	591.4	566.7	533.6	493.6	448.4	398.4
120°	540.8	562.4	575.1	580.6	575.1	562.4	540.8	512.7	477.9	438.6	393.0
122.5°	522.3	540.8	551.6	557.0	551.6	540.8	522.3	498.6	468.0	432.3	388.2
125°	502.9	517.2	526.5	529.4	526.5	517.2	502.9	483.3	456.2	422.4	380.1
127.5°	489.9	502.6	510.4	513.3	510.4	502.6	489.9	470.1	444.5	410.7	370.3
130°	480.9	493.1	501.0	503.9	501.0	493.1	480.9	460.7	434.6	401.3	362.5
132.5°	469.1	482.9	490.3	493.4	490.3	482.9	469.1	449.3	423.3	390.6	354.2
135°	448.9	462.7	470.5	473.5	470.5	462.7	448.9	429.3	404.7	374.8	342.9
137.5°	425.3	438.9	445.4	448.9	445.4	438.9	425.3	407.0	384.8	359.6	332.5
140°	409.7	420.4	427.3	431.3	427.3	420.4	409.7	392.4	371.8	349.7	326.6
142.5°	393.5	403.6	409.7	412.3	409.7	403.6	393.5	378.3	360.4	341.5	321.2
145°	370.8	379.2	384.1	386.5	384.1	379.2	370.8	358.5	344.8	330.0	313.3
147.5°	351.9	359.0	362.7	363.7	362.7	359.0	351.9	342.9	332.0	320.2	306.9
150°	340.9	347.2	350.2	350.7	350.2	347.2	340.9	333.0	324.2	314.4	303.1
152.5°	331.4	336.7	338.4	338.9	338.4	336.7	331.4	324.8	317.5	308.4	298.7
155°	318.3	322.2	323.6	323.6	323.6	322.2	318.3	313.3	307.5	300.1	292.2
157.5°	306.5	309.4	310.3	310.3	310.3	309.4	306.5	302.7	298.0	291.9	285.2
160°	298.6	301.6	302.0	302.0	302.0	301.6	298.6	295.7	291.7	286.4	280.9
162.5°	291.2	294.1	294.6	294.2	294.6	294.1	291.2	289.0	285.4	281.2	276.6
165°	281.5	283.4	282.9	282.4	282.9	283.4	281.5	279.5	277.0	273.5	270.6
167.5°	272.3	273.5	273.5	273.1	273.5	273.5	272.3	271.3	269.8	267.1	264.8
170°	267.2	267.7	267.2	267.2	267.2	267.7	267.2	266.2	264.8	262.8	261.3
172.5°	262.1	262.6	262.1	261.3	262.1	262.6	262.1	261.5	260.5	259.2	258.1
175°	255.4	256.4	255.4	254.4	255.4	256.4	255.4	255.4	255.4	254.4	253.9
177.5°	251.6	251.9	251.2	250.4	251.2	251.9	251.6	251.9	251.6	251.6	251.2
180°	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0



TEST NUMBER: P332546-935
 CATALOG NUMBER: SA4XXDIP-C575D590U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	808.7	808.7	808.7	808.7	808.7	808.7	808.7	808.7	808.7	808.7	808.7
2.5°	773.0	774.1	778.4	782.4	787.2	790.7	793.2	795.8	801.4	806.0	810.3
5°	724.3	725.9	734.7	740.7	751.1	760.1	767.2	774.8	783.9	796.3	807.7
7.5°	681.3	687.6	697.1	706.9	717.5	729.3	739.6	751.2	766.8	783.9	801.4
10°	656.9	664.0	674.0	685.4	695.4	709.2	721.9	735.6	753.4	774.2	795.0
12.5°	632.6	644.1	651.8	665.3	676.1	687.5	701.0	719.0	739.8	761.6	786.6
15°	602.0	608.4	623.1	630.5	645.8	663.3	676.7	694.8	714.9	743.7	771.8
17.5°	566.7	575.1	586.9	600.9	618.6	632.2	648.9	667.5	692.8	721.4	756.7
20°	543.7	550.8	565.2	580.6	599.3	613.7	631.5	649.5	675.7	706.2	743.0
22.5°	523.1	529.9	545.0	559.4	577.6	595.2	613.8	634.8	659.9	692.0	729.6
25°	491.1	500.2	513.6	528.3	545.7	565.8	585.9	604.7	631.5	665.3	705.5
27.5°	462.8	470.0	479.7	496.5	516.3	535.6	555.6	579.2	604.9	640.8	682.4
30°	444.5	451.3	461.0	476.4	494.8	515.6	536.3	559.1	585.9	621.4	664.0
32.5°	430.1	435.1	443.8	457.6	474.4	496.3	516.8	540.4	568.5	603.5	645.0
35°	408.7	413.0	416.4	429.5	444.5	464.7	485.4	510.6	537.7	570.8	612.3
37.5°	387.7	389.2	394.1	402.7	417.2	435.8	455.0	479.7	507.6	541.3	578.8
40°	374.9	375.6	378.6	386.6	399.3	416.7	435.5	459.9	486.4	518.2	555.4
42.5°	362.3	361.9	364.6	370.2	382.2	398.0	416.5	438.8	465.3	494.6	529.7
45°	342.3	342.3	341.7	346.4	356.1	371.5	386.9	408.4	430.5	459.3	488.8
47.5°	321.6	319.7	320.3	322.7	330.9	343.5	359.1	376.7	396.1	420.6	446.4
50°	308.2	305.5	304.5	307.2	314.5	325.6	340.4	355.8	374.2	395.6	417.8
52.5°	293.4	290.8	289.0	290.8	297.6	307.9	321.3	334.8	351.4	368.9	388.0
55°	270.7	267.7	266.7	267.3	272.3	280.4	291.8	304.2	316.6	331.0	344.4
57.5°	248.2	243.3	242.4	242.0	245.5	252.9	262.3	273.1	282.1	290.8	305.1
60°	233.5	227.5	225.5	225.2	227.8	233.8	242.5	253.2	259.6	265.6	278.0
62.5°	217.7	211.9	207.5	207.9	210.3	216.1	223.8	231.5	235.7	242.4	250.7
65°	193.3	185.9	182.5	181.6	182.9	187.6	193.6	198.6	203.4	206.0	214.0
67.5°	168.9	162.7	157.8	156.6	156.0	159.2	164.1	167.2	170.5	172.9	177.6
70°	151.8	146.4	140.3	138.4	138.0	140.7	145.4	145.8	150.4	151.4	156.4
72.5°	134.8	128.2	124.0	122.0	120.6	123.0	126.1	127.0	129.5	131.3	134.0
75°	108.6	103.5	99.5	96.5	95.5	96.8	96.8	98.5	100.1	101.2	104.2
77.5°	85.4	79.6	74.9	73.2	72.0	71.1	71.8	72.8	72.1	73.8	74.5
80°	69.3	63.3	59.7	59.0	56.9	55.3	54.9	56.0	54.6	55.3	57.3
82.5°	53.6	49.7	45.7	45.0	42.4	41.6	41.2	40.6	40.6	40.6	40.9
85°	31.9	29.4	26.8	25.1	24.1	22.5	22.5	21.8	21.1	20.4	20.8
87.5°	14.6	14.1	12.6	11.5	11.0	9.4	9.4	8.4	8.1	7.5	7.1
90°	8.4	8.9	7.8	6.9	6.9	4.0	4.0	3.4	2.9	1.5	0.5
92.5°	129.8	155.8	136.4	99.2	61.1	36.2	25.9	18.8	12.7	8.2	5.6
95°	411.6	400.3	302.0	184.7	104.1	61.4	40.7	29.0	22.6	17.7	16.2
97.5°	517.1	421.6	282.8	166.0	99.5	66.6	49.3	39.2	33.3	29.1	29.1
100°	520.6	394.9	256.4	156.2	100.7	71.7	56.0	46.7	40.7	37.4	37.4
102.5°	491.1	361.5	238.7	153.4	104.6	78.4	63.5	54.5	49.0	46.0	45.2
105°	437.6	322.2	223.5	154.7	113.9	90.4	76.1	67.3	61.4	59.0	57.4
107.5°	394.4	300.2	220.8	162.0	124.8	103.2	89.2	80.8	74.5	72.0	71.0
110°	372.8	292.7	221.5	167.5	133.1	111.5	98.2	89.4	83.5	81.0	80.1



TEST NUMBER: P332546-935

CATALOG NUMBER: SA4XXDIP-C575D590U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	360.6	289.2	223.9	173.4	140.9	120.1	106.9	98.1	92.6	89.7	88.7
115°	349.2	287.3	228.4	182.7	153.3	133.6	120.4	111.0	106.1	102.6	101.2
117.5°	344.1	286.8	233.2	192.3	165.1	146.5	132.7	124.0	118.6	115.5	114.2
120°	341.4	286.8	236.8	198.9	173.4	154.7	140.9	132.6	127.2	123.8	122.8
122.5°	338.2	286.5	240.3	205.2	181.2	162.6	149.2	140.1	135.1	131.6	130.6
125°	333.0	285.9	245.6	214.6	192.0	174.4	160.6	151.3	145.9	142.9	140.9
127.5°	326.1	284.7	249.8	222.8	202.1	184.9	171.1	161.4	155.2	151.7	150.1
130°	321.7	284.4	253.0	227.9	208.7	192.0	177.8	168.5	161.1	157.1	155.2
132.5°	317.8	284.0	255.7	233.0	214.2	197.5	184.1	174.0	167.0	161.9	160.3
135°	311.9	283.4	259.8	239.7	222.0	205.8	193.0	182.7	174.4	169.4	167.5
137.5°	306.8	283.3	262.3	244.4	227.9	212.8	200.6	189.9	181.9	176.5	174.7
140°	304.0	282.9	264.2	247.5	231.9	217.1	205.3	195.0	186.7	181.2	179.8
142.5°	301.7	282.9	265.8	249.9	235.4	221.0	209.7	199.7	191.7	186.8	185.3
145°	297.6	281.9	266.7	252.4	239.2	226.4	215.6	206.3	199.4	194.5	193.0
147.5°	294.0	280.2	267.2	254.7	243.1	231.2	221.4	213.6	206.6	202.2	201.7
150°	291.3	279.0	267.2	255.9	245.1	234.3	225.0	217.6	211.7	207.8	207.2
152.5°	288.1	277.0	266.4	256.7	246.7	237.0	228.5	221.9	216.4	212.5	212.4
155°	283.4	274.1	265.2	257.4	249.0	240.6	233.3	227.9	223.0	220.1	219.6
157.5°	278.6	271.0	264.0	257.4	250.7	243.6	237.8	233.1	229.3	226.5	226.5
160°	275.1	268.6	262.8	257.4	251.5	245.6	240.1	236.3	232.8	230.8	230.8
162.5°	271.9	266.3	261.6	257.4	252.3	246.8	242.5	239.0	235.9	234.4	234.8
165°	266.7	262.8	259.3	256.4	252.4	248.1	245.1	242.6	240.1	239.2	239.2
167.5°	262.0	259.2	257.0	255.2	252.4	249.1	246.8	245.5	243.6	243.1	243.6
170°	258.8	256.8	255.4	254.4	251.9	249.5	248.1	247.0	245.6	245.1	245.6
172.5°	256.1	254.5	253.8	253.7	251.6	249.9	248.8	248.2	247.1	247.0	247.5
175°	253.0	251.9	251.9	252.4	251.0	250.0	250.0	249.5	249.0	249.0	249.5
177.5°	250.8	250.4	250.4	251.2	250.4	250.0	250.0	250.0	249.6	250.0	250.4
180°	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0



TEST NUMBER: P332546-935

CATALOG NUMBER: SA4XXDIP-C575D590U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	808.7	808.7	808.7	808.7	808.7	808.7	808.7	808.7	808.7	808.7	808.7
2.5°	814.1	816.7	820.2	826.1	828.3	831.0	834.7	834.4	835.5	839.5	848.1
5°	817.1	827.4	837.5	849.5	862.3	870.6	882.1	889.1	896.1	905.2	920.6
7.5°	818.3	834.7	853.2	874.3	893.2	914.9	931.9	947.8	962.2	981.3	999.6
10°	816.4	838.5	862.3	889.1	917.6	941.7	963.5	988.3	1009.4	1032.4	1053.3
12.5°	812.9	839.6	871.4	901.4	934.7	970.3	997.5	1022.5	1050.6	1077.2	1109.2
15°	805.0	841.5	878.7	918.3	962.8	1004.0	1043.2	1075.6	1105.9	1145.7	1187.6
17.5°	795.0	834.3	881.2	929.1	975.7	1022.8	1071.3	1120.1	1158.1	1207.6	1240.4
20°	785.6	831.1	879.3	936.3	982.9	1041.6	1089.8	1137.0	1189.2	1238.5	1277.7
22.5°	772.4	822.3	873.5	930.1	991.4	1050.1	1105.9	1157.1	1209.4	1262.9	1310.4
25°	755.8	801.0	861.6	925.9	986.9	1050.6	1114.6	1178.9	1235.1	1291.8	1336.0
27.5°	727.4	784.5	840.9	907.3	975.1	1047.1	1115.5	1182.8	1241.7	1288.3	1315.8
30°	712.9	762.4	823.8	890.4	963.8	1041.2	1112.5	1178.5	1233.5	1270.7	1281.7
32.5°	691.5	742.6	802.6	871.7	949.3	1028.8	1103.1	1165.4	1211.3	1230.7	1217.4
35°	659.6	705.8	766.5	837.2	917.9	1002.6	1076.0	1128.6	1152.1	1133.7	1087.7
37.5°	621.4	667.3	728.1	797.5	881.1	967.2	1033.6	1071.4	1063.7	1017.9	949.4
40°	594.6	637.5	695.4	770.5	851.9	938.3	996.6	1017.1	995.7	930.0	857.3
42.5°	564.9	606.7	664.9	737.3	823.5	903.2	954.0	955.7	919.8	841.3	768.3
45°	519.6	559.5	614.4	689.7	769.5	844.6	878.0	861.6	795.3	719.5	646.2
47.5°	474.9	509.5	563.6	635.2	710.8	774.0	790.7	761.1	690.4	616.9	548.9
50°	442.2	477.1	528.0	596.3	669.3	723.9	731.9	692.8	623.5	549.4	496.1
52.5°	410.9	445.4	494.5	557.7	624.6	673.8	674.1	628.7	559.6	493.7	444.1
55°	364.8	396.0	440.2	496.8	556.5	595.0	585.6	538.6	478.7	421.5	378.2
57.5°	320.5	347.6	388.3	435.6	488.1	519.9	504.3	459.2	405.6	357.1	324.3
60°	291.8	317.5	352.4	397.0	441.2	466.0	451.3	410.4	361.1	321.9	293.4
62.5°	263.9	285.7	319.2	357.8	398.8	417.2	404.1	363.8	321.2	285.8	262.6
65°	224.5	242.2	269.0	302.2	332.0	347.8	336.7	299.1	266.7	241.2	222.7
67.5°	187.6	201.5	221.8	248.4	273.7	282.2	272.2	246.0	218.5	198.1	185.1
70°	162.1	175.2	192.3	212.8	234.8	243.9	233.8	213.1	190.6	171.9	159.1
72.5°	139.9	150.0	164.5	181.9	199.1	208.3	201.4	181.4	162.5	148.5	137.7
75°	106.5	115.2	125.3	137.7	151.1	157.1	151.1	137.3	124.2	113.9	106.2
77.5°	77.5	82.1	89.9	99.2	107.5	112.2	106.9	97.6	89.6	82.6	78.7
80°	59.0	62.3	67.7	75.1	80.8	85.1	81.7	74.0	67.7	62.9	61.3
82.5°	42.9	45.1	48.6	54.2	57.9	60.2	58.7	53.1	50.5	46.3	44.7
85°	21.1	22.5	24.8	26.4	29.8	30.1	30.5	28.2	25.8	24.8	23.4
87.5°	7.5	8.1	9.0	9.9	10.9	11.8	11.5	11.8	10.8	10.5	9.6
90°	1.5	2.9	3.4	4.0	4.0	6.9	6.9	7.8	8.9	8.4	8.9
92.5°	8.2	12.7	18.8	25.9	36.2	61.1	99.2	136.4	155.8	129.8	96.4
95°	17.7	22.6	29.0	40.7	61.4	104.1	184.7	302.0	400.3	411.6	363.9
97.5°	29.1	33.3	39.2	49.3	66.6	99.5	166.0	282.8	421.6	517.1	537.7
100°	37.4	40.7	46.7	56.0	71.7	100.7	156.2	256.4	394.9	520.6	592.4
102.5°	46.0	49.0	54.5	63.5	78.4	104.6	153.4	238.7	361.5	491.1	589.6
105°	59.0	61.4	67.3	76.1	90.4	113.9	154.7	223.5	322.2	437.6	550.1
107.5°	72.0	74.5	80.8	89.2	103.2	124.8	162.0	220.8	300.2	394.4	494.0
110°	81.0	83.5	89.4	98.2	111.5	133.1	167.5	221.5	292.7	372.8	460.2



TEST NUMBER: P332546-935

CATALOG NUMBER: SA4XXDIP-C575D590U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	89.7	92.6	98.1	106.9	120.1	140.9	173.4	223.9	289.2	360.6	435.5
115°	102.6	106.1	111.0	120.4	133.6	153.3	182.7	228.4	287.3	349.2	410.6
117.5°	115.5	118.6	124.0	132.7	146.5	165.1	192.3	233.2	286.8	344.1	398.4
120°	123.8	127.2	132.6	140.9	154.7	173.4	198.9	236.8	286.8	341.4	393.0
122.5°	131.6	135.1	140.1	149.2	162.6	181.2	205.2	240.3	286.5	338.2	388.2
125°	142.9	145.9	151.3	160.6	174.4	192.0	214.6	245.6	285.9	333.0	380.1
127.5°	151.7	155.2	161.4	171.1	184.9	202.1	222.8	249.8	284.7	326.1	370.3
130°	157.1	161.1	168.5	177.8	192.0	208.7	227.9	253.0	284.4	321.7	362.5
132.5°	161.9	167.0	174.0	184.1	197.5	214.2	233.0	255.7	284.0	317.8	354.2
135°	169.4	174.4	182.7	193.0	205.8	222.0	239.7	259.8	283.4	311.9	342.9
137.5°	176.5	181.9	189.9	200.6	212.8	227.9	244.4	262.3	283.3	306.8	332.5
140°	181.2	186.7	195.0	205.3	217.1	231.9	247.5	264.2	282.9	304.0	326.6
142.5°	186.8	191.7	199.7	209.7	221.0	235.4	249.9	265.8	282.9	301.7	321.2
145°	194.5	199.4	206.3	215.6	226.4	239.2	252.4	266.7	281.9	297.6	313.3
147.5°	202.2	206.6	213.6	221.4	231.2	243.1	254.7	267.2	280.2	294.0	306.9
150°	207.8	211.7	217.6	225.0	234.3	245.1	255.9	267.2	279.0	291.3	303.1
152.5°	212.5	216.4	221.9	228.5	237.0	246.7	256.7	266.4	277.0	288.1	298.7
155°	220.1	223.0	227.9	233.3	240.6	249.0	257.4	265.2	274.1	283.4	292.2
157.5°	226.5	229.3	233.1	237.8	243.6	250.7	257.4	264.0	271.0	278.6	285.2
160°	230.8	232.8	236.3	240.1	245.6	251.5	257.4	262.8	268.6	275.1	280.9
162.5°	234.4	235.9	239.0	242.5	246.8	252.3	257.4	261.6	266.3	271.9	276.6
165°	239.2	240.1	242.6	245.1	248.1	252.4	256.4	259.3	262.8	266.7	270.6
167.5°	243.1	243.6	245.5	246.8	249.1	252.4	255.2	257.0	259.2	262.0	264.8
170°	245.1	245.6	247.0	248.1	249.5	251.9	254.4	255.4	256.8	258.8	261.3
172.5°	247.0	247.1	248.2	248.8	249.9	251.6	253.7	253.8	254.5	256.1	258.1
175°	249.0	249.0	249.5	250.0	250.0	251.0	252.4	251.9	251.9	253.0	253.9
177.5°	250.0	249.6	250.0	250.0	250.0	250.4	251.2	250.4	250.4	250.8	251.2
180°	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	808.7	808.7	808.7	808.7	808.7	808.7	808.7
2.5°	852.4	852.9	855.3	857.2	857.7	860.4	860.7
5°	927.3	933.0	944.0	945.0	946.7	955.5	948.7
7.5°	1015.0	1029.5	1039.1	1047.7	1050.8	1054.6	1053.8
10°	1071.3	1092.8	1103.5	1120.6	1121.3	1125.6	1122.9
12.5°	1127.9	1152.8	1172.3	1175.5	1189.8	1192.1	1195.8
15°	1208.0	1234.5	1261.6	1271.4	1291.1	1295.8	1303.1
17.5°	1283.3	1310.4	1329.4	1354.5	1362.6	1373.5	1366.1
20°	1324.6	1354.1	1378.2	1397.9	1406.4	1412.4	1411.7
22.5°	1349.5	1379.2	1398.8	1413.8	1421.6	1424.2	1424.0
25°	1365.1	1382.2	1388.3	1394.0	1385.3	1382.2	1383.5
27.5°	1321.7	1317.2	1301.6	1280.9	1259.5	1242.4	1233.2
30°	1262.0	1235.8	1212.0	1170.5	1149.0	1136.3	1124.9
32.5°	1177.2	1135.8	1090.1	1052.1	1027.6	1008.7	1005.9
35°	1032.2	969.8	913.9	867.3	843.2	822.8	818.0
37.5°	877.5	812.8	762.4	721.3	695.4	681.1	667.6
40°	774.8	719.3	669.7	634.8	615.1	604.7	596.3
42.5°	695.8	645.0	595.7	569.1	551.3	544.9	540.0
45°	586.6	539.3	505.1	485.1	474.7	464.0	458.9
47.5°	499.1	460.7	438.2	421.1	410.0	403.6	400.4
50°	449.5	418.1	398.0	385.0	374.9	369.8	367.1
52.5°	405.6	379.8	362.9	352.5	345.7	342.0	340.9
55°	349.4	329.7	318.9	309.9	304.9	301.5	300.1
57.5°	303.7	288.5	279.8	272.3	270.4	267.6	266.7
60°	273.7	262.0	254.6	249.6	247.9	244.5	245.2
62.5°	247.2	237.5	231.3	228.4	226.2	223.3	224.3
65°	209.1	202.0	198.6	196.0	193.3	191.7	193.0
67.5°	175.4	170.6	166.0	164.5	163.2	162.9	161.4
70°	153.4	149.4	145.4	144.4	144.4	143.0	142.7
72.5°	132.2	129.3	126.7	125.9	124.8	125.4	124.0
75°	102.2	99.8	98.8	97.8	97.5	97.5	96.5
77.5°	75.5	73.8	72.2	72.2	70.9	70.5	70.3
80°	57.3	56.7	55.3	55.3	54.6	54.9	54.2
82.5°	43.0	42.1	41.8	41.3	40.4	40.5	39.8
85°	23.1	22.1	21.8	20.8	20.1	20.8	20.1
87.5°	9.9	9.7	9.5	9.0	8.9	8.8	7.9
90°	9.3	9.8	9.8	10.3	10.8	10.3	10.3
92.5°	72.6	57.8	48.0	42.1	39.5	37.8	37.8
95°	287.8	222.0	174.4	150.3	135.1	126.2	119.9
97.5°	509.5	461.4	410.1	374.9	345.3	330.5	320.3
100°	602.2	578.1	541.7	499.0	469.1	454.3	450.4
102.5°	638.3	645.3	630.2	603.9	582.2	566.7	563.5
105°	635.1	683.7	703.9	704.8	700.9	694.0	691.0
107.5°	584.4	653.0	696.7	721.0	732.2	737.1	738.4
110°	545.2	616.4	670.5	705.3	725.9	734.8	739.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	510.6	577.9	631.9	671.5	696.5	708.9	716.0
115°	471.1	528.5	575.7	614.4	643.9	659.6	663.6
117.5°	448.4	493.6	533.6	566.7	591.4	607.3	610.4
120°	438.6	477.9	512.7	540.8	562.4	575.1	580.6
122.5°	432.3	468.0	498.6	522.3	540.8	551.6	557.0
125°	422.4	456.2	483.3	502.9	517.2	526.5	529.4
127.5°	410.7	444.5	470.1	489.9	502.6	510.4	513.3
130°	401.3	434.6	460.7	480.9	493.1	501.0	503.9
132.5°	390.6	423.3	449.3	469.1	482.9	490.3	493.4
135°	374.8	404.7	429.3	448.9	462.7	470.5	473.5
137.5°	359.6	384.8	407.0	425.3	438.9	445.4	448.9
140°	349.7	371.8	392.4	409.7	420.4	427.3	431.3
142.5°	341.5	360.4	378.3	393.5	403.6	409.7	412.3
145°	330.0	344.8	358.5	370.8	379.2	384.1	386.5
147.5°	320.2	332.0	342.9	351.9	359.0	362.7	363.7
150°	314.4	324.2	333.0	340.9	347.2	350.2	350.7
152.5°	308.4	317.5	324.8	331.4	336.7	338.4	338.9
155°	300.1	307.5	313.3	318.3	322.2	323.6	323.6
157.5°	291.9	298.0	302.7	306.5	309.4	310.3	310.3
160°	286.4	291.7	295.7	298.6	301.6	302.0	302.0
162.5°	281.2	285.4	289.0	291.2	294.1	294.6	294.2
165°	273.5	277.0	279.5	281.5	283.4	282.9	282.4
167.5°	267.1	269.8	271.3	272.3	273.5	273.5	273.1
170°	262.8	264.8	266.2	267.2	267.7	267.2	267.2
172.5°	259.2	260.5	261.5	262.1	262.6	262.1	261.3
175°	254.4	255.4	255.4	255.4	256.4	255.4	254.4
177.5°	251.6	251.6	251.9	251.6	251.9	251.2	250.4
180°	250.0	250.0	250.0	250.0	250.0	250.0	250.0

(END OF REPORT)