

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: P332545-935

Luminaire Tested: **SA4XXDIP-C575D590U935-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P332545-935  
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: SA4XXDIP-C575D590U935-4F0-1E-UDD-A1  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 575 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 590 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

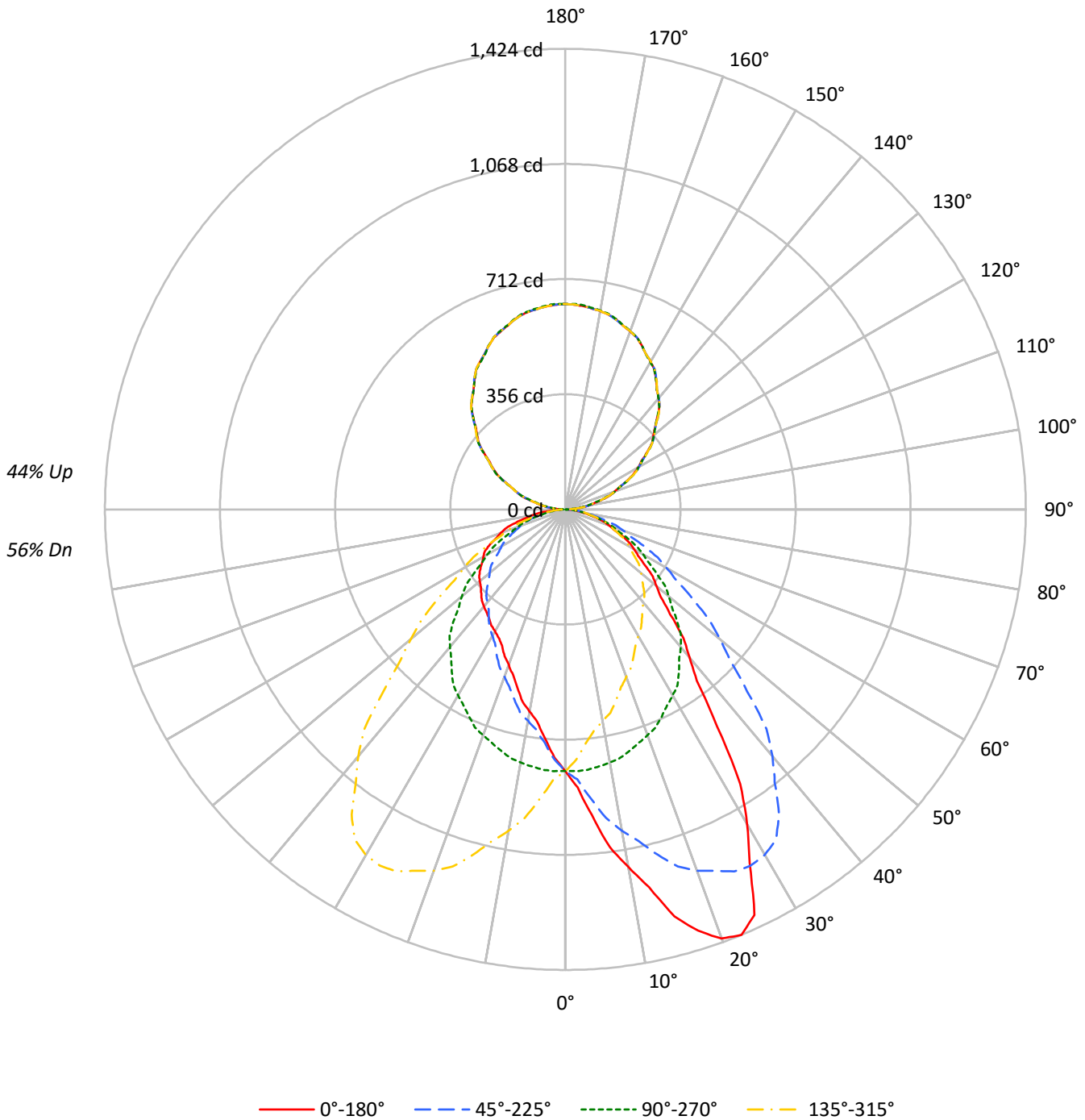
Lumens per Lamp: N/A  
Luminaire Lumens: 3994.7 lumens  
Efficiency: N/A  
Efficacy: 121.8 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41  
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')  
CIE Type: General Diffuse

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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56
1	99	95	91	88	92	89	85	82	76	74	72	65	63	62	55	54	52	48
2	91	83	77	72	84	78	72	68	67	63	60	57	55	52	49	46	45	40
3	83	73	66	60	77	69	62	57	59	55	51	51	47	44	43	41	38	34
4	76	65	57	51	70	61	54	49	53	48	43	46	42	38	39	36	33	30
5	70	58	50	44	65	55	47	42	48	42	38	41	37	33	35	32	29	26
6	64	52	44	38	60	49	42	37	43	37	33	37	33	29	32	28	26	23
7	60	47	39	34	55	45	37	32	39	33	29	34	29	26	29	26	23	20
8	55	43	35	30	51	41	34	29	36	30	26	31	27	23	27	23	21	18
9	52	39	32	27	48	37	30	26	33	27	23	29	24	21	25	21	19	17
10	48	36	29	24	45	34	28	23	30	25	21	27	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	2.0
10°-20°	242.8	6.1
20°-30°	385.1	9.6
30°-40°	428.5	10.7
40°-50°	390.1	9.8
50°-60°	318.8	8.0
60°-70°	227.6	5.7
70°-80°	125.3	3.1
80°-90°	36.1	0.9
90°-100°	41.9	1.0
100°-110°	124.1	3.1
110°-120°	210.6	5.3
120°-130°	277.7	7.0
130°-140°	311.8	7.8
140°-150°	306.4	7.7
150°-160°	257.7	6.5
160°-170°	171.5	4.3
170°-180°	60.0	1.5
0°-30°	706.7	17.7
0°-40°	1135.2	28.4
0°-60°	1844.1	46.2
0°-90°	2233.1	55.9
90°-120°	376.5	9.4
90°-150°	1272.4	31.9
90°-180°	1762.0	44.1
0°-180°	3994.7	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°	15	2	15	2	15	8
95°	39	29	39	29	39	40
105°	120	114	120	114	120	126
115°	212	214	212	214	212	210
125°	309	312	309	312	309	276
135°	403	402	403	402	403	311
145°	489	489	489	489	489	306
155°	559	560	559	560	559	257
165°	608	609	608	609	608	171
175°	631	634	631	634	631	60
180°	635	635	635	635	635	



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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°	8.9	9.6	9.6	9.8	10.2	10.4	10.6	10.2	11.1	11.3	12.1
90°	14.7	14.6	14.3	14.1	13.9	13.4	12.7	12.1	11.5	10.8	9.9
92.5°	21.8	21.7	21.5	21.4	21.3	21.0	20.7	20.2	19.8	19.5	18.9
95°	38.8	38.8	38.8	38.8	38.8	38.7	38.3	38.0	37.6	37.3	36.6
97.5°	60.8	60.8	60.8	60.8	60.8	60.6	60.2	59.8	59.4	59.1	58.1
100°	76.1	76.1	76.1	76.1	76.1	76.0	75.8	75.6	75.3	75.2	74.1
102.5°	93.4	93.3	93.2	93.2	93.1	92.8	92.6	92.2	92.0	91.6	90.7
105°	119.9	119.5	119.2	118.8	118.5	118.2	117.9	117.5	117.2	116.8	116.4
107.5°	145.6	145.6	145.6	145.6	145.7	145.5	145.2	144.9	144.6	144.3	144.2
110°	164.0	163.7	163.3	163.1	162.7	162.6	162.9	163.1	163.3	163.5	163.7



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	182.9	182.8	182.7	182.7	182.6	182.6	182.6	182.7	182.7	182.8	183.0
115°	212.2	212.2	212.3	212.5	212.6	212.7	212.8	212.9	213.0	213.1	213.4
117.5°	240.0	240.2	240.5	240.6	240.9	241.2	241.6	241.9	242.3	242.7	242.8
120°	261.2	261.1	260.8	260.6	260.4	260.5	261.1	261.7	262.2	262.7	263.0
122.5°	279.0	279.3	279.7	280.1	280.5	280.9	281.3	281.6	282.0	282.4	282.5
125°	309.4	309.6	309.8	310.0	310.2	310.5	310.6	310.9	311.1	311.3	311.4
127.5°	337.6	337.8	337.9	338.1	338.3	338.5	338.7	338.9	339.1	339.3	339.5
130°	356.0	356.5	356.9	357.3	357.7	358.1	358.3	358.5	358.8	359.0	359.0
132.5°	375.7	375.8	376.0	376.2	376.3	376.6	376.8	377.0	377.2	377.5	377.5
135°	402.7	403.0	403.3	403.6	404.0	404.2	404.5	404.7	404.9	405.1	405.1
137.5°	431.1	431.0	430.9	430.8	430.8	430.9	431.2	431.4	431.8	432.0	431.9
140°	448.3	448.5	448.6	448.7	448.8	448.9	449.0	449.1	449.2	449.4	449.4
142.5°	465.6	465.6	465.7	465.7	465.7	465.7	465.8	465.8	465.8	465.8	465.9
145°	489.1	489.4	489.7	490.1	490.4	490.6	490.8	490.9	490.9	491.0	490.9
147.5°	512.9	513.0	513.1	513.2	513.3	513.4	513.5	513.6	513.7	513.8	513.8
150°	527.4	527.5	527.6	527.7	527.9	527.9	527.9	527.9	527.9	527.9	527.9
152.5°	540.8	541.1	541.3	541.7	541.9	541.9	541.7	541.4	541.1	540.9	540.8
155°	559.3	559.7	560.2	560.6	561.1	561.1	560.6	560.2	559.7	559.3	559.5
157.5°	575.9	576.3	576.7	577.0	577.4	577.5	577.1	576.8	576.4	576.1	576.2
160°	585.4	585.9	586.4	587.0	587.5	587.6	587.3	587.0	586.7	586.3	586.4
162.5°	595.2	595.7	596.2	596.8	597.4	597.4	596.8	596.2	595.6	595.0	595.1
165°	608.0	608.4	608.8	609.2	609.7	609.6	608.9	608.3	607.6	607.0	607.2
167.5°	617.1	617.8	618.5	619.1	619.7	619.8	619.1	618.5	617.9	617.2	617.2
170°	622.2	622.9	623.7	624.5	625.3	625.3	624.7	624.0	623.4	622.7	622.6
172.5°	626.5	627.2	628.0	628.8	629.6	629.6	628.9	628.1	627.3	626.6	626.5
175°	631.0	631.8	632.6	633.4	634.0	634.0	633.4	632.6	631.8	631.0	631.1
177.5°	633.4	634.0	634.8	635.5	636.2	636.2	635.6	635.0	634.4	633.8	633.8
180°	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0



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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°	12.0	12.1	11.6	10.3	9.3	8.3	7.7	7.2	7.7	8.3	8.8
90°	9.0	8.2	7.3	6.3	5.1	3.9	2.7	1.5	2.7	3.9	5.1
92.5°	18.3	17.7	17.0	16.0	14.6	13.3	11.9	10.5	11.9	13.3	14.6
95°	35.8	35.0	34.3	33.4	32.4	31.4	30.5	29.4	30.5	31.4	32.4
97.5°	57.3	56.3	55.4	54.6	53.8	53.0	52.3	51.5	52.3	53.0	53.8
100°	73.2	72.2	71.2	70.5	70.1	69.7	69.2	68.7	69.2	69.7	70.1
102.5°	89.8	88.9	88.1	87.5	87.3	87.1	87.0	86.8	87.0	87.1	87.3
105°	116.0	115.5	115.1	114.9	114.8	114.6	114.5	114.4	114.5	114.6	114.8
107.5°	144.1	144.0	144.0	144.0	143.8	143.6	143.5	143.4	143.5	143.6	143.8
110°	163.8	163.8	163.9	163.9	163.7	163.5	163.2	163.1	163.2	163.5	163.7





TEST NUMBER: P332545-935

CATALOG NUMBER: SA4XXDIP-C575D590U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	183.1	183.4	183.6	183.7	183.6	183.6	183.5	183.5	183.5	183.6	183.6
115°	213.5	213.8	214.0	214.1	214.1	214.1	214.1	214.1	214.1	214.1	214.1
117.5°	243.0	243.1	243.3	243.3	243.2	243.1	243.1	243.0	243.1	243.1	243.2
120°	263.4	263.7	264.1	264.0	263.6	263.1	262.7	262.3	262.7	263.1	263.6
122.5°	282.7	282.8	283.0	282.9	282.8	282.6	282.4	282.2	282.4	282.6	282.8
125°	311.6	311.7	311.8	311.9	311.9	311.9	311.9	311.9	311.9	311.9	311.9
127.5°	339.7	339.8	340.0	339.9	339.7	339.3	339.0	338.6	339.0	339.3	339.7
130°	359.0	359.0	359.0	358.8	358.5	358.2	357.8	357.5	357.8	358.2	358.5
132.5°	377.6	377.7	377.8	377.7	377.5	377.2	377.0	376.8	377.0	377.2	377.5
135°	405.1	405.1	405.1	404.8	404.2	403.5	402.9	402.2	402.9	403.5	404.2
137.5°	431.7	431.5	431.4	431.1	430.8	430.5	430.2	429.9	430.2	430.5	430.8
140°	449.4	449.4	449.4	449.2	449.0	448.8	448.6	448.3	448.6	448.8	449.0
142.5°	466.0	466.1	466.1	466.1	465.9	465.7	465.5	465.2	465.5	465.7	465.9
145°	490.9	490.8	490.6	490.3	489.9	489.5	489.0	488.6	489.0	489.5	489.9
147.5°	513.9	514.0	514.1	513.9	513.3	512.8	512.3	511.8	512.3	512.8	513.3
150°	527.9	527.9	527.9	527.7	527.3	526.8	526.4	525.9	526.4	526.8	527.3
152.5°	540.7	540.6	540.5	540.4	540.1	539.8	539.6	539.3	539.6	539.8	540.1
155°	559.6	559.6	559.7	559.8	559.8	559.8	559.8	559.8	559.8	559.8	559.8
157.5°	576.2	576.2	576.2	576.4	576.5	576.7	576.9	577.1	576.9	576.7	576.5
160°	586.6	586.7	586.8	586.9	587.0	587.1	587.2	587.3	587.2	587.1	587.0
162.5°	595.2	595.3	595.4	595.6	595.9	596.2	596.5	596.8	596.5	596.2	595.9
165°	607.4	607.6	607.9	608.1	608.5	608.7	609.1	609.4	609.1	608.7	608.5
167.5°	617.2	617.1	617.1	617.3	617.8	618.2	618.7	619.1	618.7	618.2	617.8
170°	622.4	622.3	622.2	622.4	623.0	623.5	624.1	624.7	624.1	623.5	623.0
172.5°	626.5	626.5	626.5	626.7	627.2	627.7	628.1	628.5	628.1	627.7	627.2
175°	631.3	631.4	631.5	631.8	632.3	632.9	633.4	634.0	633.4	632.9	632.3
177.5°	633.8	633.8	633.8	634.0	634.5	634.9	635.3	635.8	635.3	634.9	634.5
180°	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0



TEST NUMBER: P332545-935

CATALOG NUMBER: SA4XXDIP-C575D590U935-4F0-1E-UDD-A1

**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°	9.8	10.1	11.3	12.0	13.0	14.5	15.2	18.3	19.5	20.9	23.4
90°	6.3	7.3	8.2	9.0	9.9	10.8	11.5	12.1	12.7	13.4	13.9
92.5°	16.0	17.0	17.7	18.3	18.9	19.5	19.8	20.2	20.7	21.0	21.3
95°	33.4	34.3	35.0	35.8	36.6	37.3	37.6	38.0	38.3	38.7	38.8
97.5°	54.6	55.4	56.3	57.3	58.1	59.1	59.4	59.8	60.2	60.6	60.8
100°	70.5	71.2	72.2	73.2	74.1	75.2	75.3	75.6	75.8	76.0	76.1
102.5°	87.5	88.1	88.9	89.8	90.7	91.6	92.0	92.2	92.6	92.8	93.1
105°	114.9	115.1	115.5	116.0	116.4	116.8	117.2	117.5	117.9	118.2	118.5
107.5°	144.0	144.0	144.0	144.1	144.2	144.3	144.6	144.9	145.2	145.5	145.7
110°	163.9	163.9	163.8	163.8	163.7	163.5	163.3	163.1	162.9	162.6	162.7



TEST NUMBER: P332545-935

CATALOG NUMBER: SA4XXDIP-C575D590U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	183.7	183.6	183.4	183.1	183.0	182.8	182.7	182.7	182.6	182.6	182.6
115°	214.1	214.0	213.8	213.5	213.4	213.1	213.0	212.9	212.8	212.7	212.6
117.5°	243.3	243.3	243.1	243.0	242.8	242.7	242.3	241.9	241.6	241.2	240.9
120°	264.0	264.1	263.7	263.4	263.0	262.7	262.2	261.7	261.1	260.5	260.4
122.5°	282.9	283.0	282.8	282.7	282.5	282.4	282.0	281.6	281.3	280.9	280.5
125°	311.9	311.8	311.7	311.6	311.4	311.3	311.1	310.9	310.6	310.5	310.2
127.5°	339.9	340.0	339.8	339.7	339.5	339.3	339.1	338.9	338.7	338.5	338.3
130°	358.8	359.0	359.0	359.0	359.0	359.0	358.8	358.5	358.3	358.1	357.7
132.5°	377.7	377.8	377.7	377.6	377.5	377.5	377.2	377.0	376.8	376.6	376.3
135°	404.8	405.1	405.1	405.1	405.1	405.1	404.9	404.7	404.5	404.2	404.0
137.5°	431.1	431.4	431.5	431.7	431.9	432.0	431.8	431.4	431.2	430.9	430.8
140°	449.2	449.4	449.4	449.4	449.4	449.4	449.2	449.1	449.0	448.9	448.8
142.5°	466.1	466.1	466.1	466.0	465.9	465.8	465.8	465.8	465.8	465.7	465.7
145°	490.3	490.6	490.8	490.9	490.9	491.0	490.9	490.9	490.8	490.6	490.4
147.5°	513.9	514.1	514.0	513.9	513.8	513.8	513.7	513.6	513.5	513.4	513.3
150°	527.7	527.9	527.9	527.9	527.9	527.9	527.9	527.9	527.9	527.9	527.9
152.5°	540.4	540.5	540.6	540.7	540.8	540.9	541.1	541.4	541.7	541.9	541.9
155°	559.8	559.7	559.6	559.6	559.5	559.3	559.7	560.2	560.6	561.1	561.1
157.5°	576.4	576.2	576.2	576.2	576.2	576.1	576.4	576.8	577.1	577.5	577.4
160°	586.9	586.8	586.7	586.6	586.4	586.3	586.7	587.0	587.3	587.6	587.5
162.5°	595.6	595.4	595.3	595.2	595.1	595.0	595.6	596.2	596.8	597.4	597.4
165°	608.1	607.9	607.6	607.4	607.2	607.0	607.6	608.3	608.9	609.6	609.7
167.5°	617.3	617.1	617.1	617.2	617.2	617.2	617.9	618.5	619.1	619.8	619.7
170°	622.4	622.2	622.3	622.4	622.6	622.7	623.4	624.0	624.7	625.3	625.3
172.5°	626.7	626.5	626.5	626.5	626.5	626.6	627.3	628.1	628.9	629.6	629.6
175°	631.8	631.5	631.4	631.3	631.1	631.0	631.8	632.6	633.4	634.0	634.0
177.5°	634.0	633.8	633.8	633.8	633.8	633.8	634.4	635.0	635.6	636.2	636.2
180°	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0



TEST NUMBER: P332545-935

CATALOG NUMBER: SA4XXDIP-C575D590U935-4F0-1E-UDD-A1

**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°	24.3	24.5	25.4	26.0	25.4	24.5	24.3	23.4	20.9	19.5	18.3
90°	14.1	14.3	14.6	14.7	14.6	14.3	14.1	13.9	13.4	12.7	12.1
92.5°	21.4	21.5	21.7	21.8	21.7	21.5	21.4	21.3	21.0	20.7	20.2
95°	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.7	38.3	38.0
97.5°	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.6	60.2	59.8
100°	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.0	75.8	75.6
102.5°	93.2	93.2	93.3	93.4	93.3	93.2	93.2	93.1	92.8	92.6	92.2
105°	118.8	119.2	119.5	119.9	119.5	119.2	118.8	118.5	118.2	117.9	117.5
107.5°	145.6	145.6	145.6	145.6	145.6	145.6	145.6	145.7	145.5	145.2	144.9
110°	163.1	163.3	163.7	164.0	163.7	163.3	163.1	162.7	162.6	162.9	163.1



TEST NUMBER: P332545-935

CATALOG NUMBER: SA4XXDIP-C575D590U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	182.7	182.7	182.8	182.9	182.8	182.7	182.7	182.6	182.6	182.6	182.7
115°	212.5	212.3	212.2	212.2	212.2	212.3	212.5	212.6	212.7	212.8	212.9
117.5°	240.6	240.5	240.2	240.0	240.2	240.5	240.6	240.9	241.2	241.6	241.9
120°	260.6	260.8	261.1	261.2	261.1	260.8	260.6	260.4	260.5	261.1	261.7
122.5°	280.1	279.7	279.3	279.0	279.3	279.7	280.1	280.5	280.9	281.3	281.6
125°	310.0	309.8	309.6	309.4	309.6	309.8	310.0	310.2	310.5	310.6	310.9
127.5°	338.1	337.9	337.8	337.6	337.8	337.9	338.1	338.3	338.5	338.7	338.9
130°	357.3	356.9	356.5	356.0	356.5	356.9	357.3	357.7	358.1	358.3	358.5
132.5°	376.2	376.0	375.8	375.7	375.8	376.0	376.2	376.3	376.6	376.8	377.0
135°	403.6	403.3	403.0	402.7	403.0	403.3	403.6	404.0	404.2	404.5	404.7
137.5°	430.8	430.9	431.0	431.1	431.0	430.9	430.8	430.8	430.9	431.2	431.4
140°	448.7	448.6	448.5	448.3	448.5	448.6	448.7	448.8	448.9	449.0	449.1
142.5°	465.7	465.7	465.6	465.6	465.6	465.7	465.7	465.7	465.7	465.8	465.8
145°	490.1	489.7	489.4	489.1	489.4	489.7	490.1	490.4	490.6	490.8	490.9
147.5°	513.2	513.1	513.0	512.9	513.0	513.1	513.2	513.3	513.4	513.5	513.6
150°	527.7	527.6	527.5	527.4	527.5	527.6	527.7	527.9	527.9	527.9	527.9
152.5°	541.7	541.3	541.1	540.8	541.1	541.3	541.7	541.9	541.9	541.7	541.4
155°	560.6	560.2	559.7	559.3	559.7	560.2	560.6	561.1	561.1	560.6	560.2
157.5°	577.0	576.7	576.3	575.9	576.3	576.7	577.0	577.4	577.5	577.1	576.8
160°	587.0	586.4	585.9	585.4	585.9	586.4	587.0	587.5	587.6	587.3	587.0
162.5°	596.8	596.2	595.7	595.2	595.7	596.2	596.8	597.4	597.4	596.8	596.2
165°	609.2	608.8	608.4	608.0	608.4	608.8	609.2	609.7	609.6	608.9	608.3
167.5°	619.1	618.5	617.8	617.1	617.8	618.5	619.1	619.7	619.8	619.1	618.5
170°	624.5	623.7	622.9	622.2	622.9	623.7	624.5	625.3	625.3	624.7	624.0
172.5°	628.8	628.0	627.2	626.5	627.2	628.0	628.8	629.6	629.6	628.9	628.1
175°	633.4	632.6	631.8	631.0	631.8	632.6	633.4	634.0	634.0	633.4	632.6
177.5°	635.5	634.8	634.0	633.4	634.0	634.8	635.5	636.2	636.2	635.6	635.0
180°	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0



TEST NUMBER: P332545-935

CATALOG NUMBER: SA4XXDIP-C575D590U935-4F0-1E-UDD-A1

**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°	15.2	14.5	13.0	12.0	11.3	10.1	9.8	8.8	8.3	7.7	7.2
90°	11.5	10.8	9.9	9.0	8.2	7.3	6.3	5.1	3.9	2.7	1.5
92.5°	19.8	19.5	18.9	18.3	17.7	17.0	16.0	14.6	13.3	11.9	10.5
95°	37.6	37.3	36.6	35.8	35.0	34.3	33.4	32.4	31.4	30.5	29.4
97.5°	59.4	59.1	58.1	57.3	56.3	55.4	54.6	53.8	53.0	52.3	51.5
100°	75.3	75.2	74.1	73.2	72.2	71.2	70.5	70.1	69.7	69.2	68.7
102.5°	92.0	91.6	90.7	89.8	88.9	88.1	87.5	87.3	87.1	87.0	86.8
105°	117.2	116.8	116.4	116.0	115.5	115.1	114.9	114.8	114.6	114.5	114.4
107.5°	144.6	144.3	144.2	144.1	144.0	144.0	144.0	143.8	143.6	143.5	143.4
110°	163.3	163.5	163.7	163.8	163.8	163.9	163.9	163.7	163.5	163.2	163.1



TEST NUMBER: P332545-935

CATALOG NUMBER: SA4XXDIP-C575D590U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	182.7	182.8	183.0	183.1	183.4	183.6	183.7	183.6	183.6	183.5	183.5
115°	213.0	213.1	213.4	213.5	213.8	214.0	214.1	214.1	214.1	214.1	214.1
117.5°	242.3	242.7	242.8	243.0	243.1	243.3	243.3	243.2	243.1	243.1	243.0
120°	262.2	262.7	263.0	263.4	263.7	264.1	264.0	263.6	263.1	262.7	262.3
122.5°	282.0	282.4	282.5	282.7	282.8	283.0	282.9	282.8	282.6	282.4	282.2
125°	311.1	311.3	311.4	311.6	311.7	311.8	311.9	311.9	311.9	311.9	311.9
127.5°	339.1	339.3	339.5	339.7	339.8	340.0	339.9	339.7	339.3	339.0	338.6
130°	358.8	359.0	359.0	359.0	359.0	359.0	358.8	358.5	358.2	357.8	357.5
132.5°	377.2	377.5	377.5	377.6	377.7	377.8	377.7	377.5	377.2	377.0	376.8
135°	404.9	405.1	405.1	405.1	405.1	405.1	404.8	404.2	403.5	402.9	402.2
137.5°	431.8	432.0	431.9	431.7	431.5	431.4	431.1	430.8	430.5	430.2	429.9
140°	449.2	449.4	449.4	449.4	449.4	449.4	449.2	449.0	448.8	448.6	448.3
142.5°	465.8	465.8	465.9	466.0	466.1	466.1	466.1	465.9	465.7	465.5	465.2
145°	490.9	491.0	490.9	490.9	490.8	490.6	490.3	489.9	489.5	489.0	488.6
147.5°	513.7	513.8	513.8	513.9	514.0	514.1	513.9	513.3	512.8	512.3	511.8
150°	527.9	527.9	527.9	527.9	527.9	527.9	527.7	527.3	526.8	526.4	525.9
152.5°	541.1	540.9	540.8	540.7	540.6	540.5	540.4	540.1	539.8	539.6	539.3
155°	559.7	559.3	559.5	559.6	559.6	559.7	559.8	559.8	559.8	559.8	559.8
157.5°	576.4	576.1	576.2	576.2	576.2	576.2	576.4	576.5	576.7	576.9	577.1
160°	586.7	586.3	586.4	586.6	586.7	586.8	586.9	587.0	587.1	587.2	587.3
162.5°	595.6	595.0	595.1	595.2	595.3	595.4	595.6	595.9	596.2	596.5	596.8
165°	607.6	607.0	607.2	607.4	607.6	607.9	608.1	608.5	608.7	609.1	609.4
167.5°	617.9	617.2	617.2	617.2	617.1	617.1	617.3	617.8	618.2	618.7	619.1
170°	623.4	622.7	622.6	622.4	622.3	622.2	622.4	623.0	623.5	624.1	624.7
172.5°	627.3	626.6	626.5	626.5	626.5	626.5	626.7	627.2	627.7	628.1	628.5
175°	631.8	631.0	631.1	631.3	631.4	631.5	631.8	632.3	632.9	633.4	634.0
177.5°	634.4	633.8	633.8	633.8	633.8	633.8	634.0	634.5	634.9	635.3	635.8
180°	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0



TEST NUMBER: P332545-935

CATALOG NUMBER: SA4XXDIP-C575D590U935-4F0-1E-UDD-A1

**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°	7.7	8.3	9.3	10.3	11.6	12.1	12.0	12.1	11.3	11.1	10.2
90°	2.7	3.9	5.1	6.3	7.3	8.2	9.0	9.9	10.8	11.5	12.1
92.5°	11.9	13.3	14.6	16.0	17.0	17.7	18.3	18.9	19.5	19.8	20.2
95°	30.5	31.4	32.4	33.4	34.3	35.0	35.8	36.6	37.3	37.6	38.0
97.5°	52.3	53.0	53.8	54.6	55.4	56.3	57.3	58.1	59.1	59.4	59.8
100°	69.2	69.7	70.1	70.5	71.2	72.2	73.2	74.1	75.2	75.3	75.6
102.5°	87.0	87.1	87.3	87.5	88.1	88.9	89.8	90.7	91.6	92.0	92.2
105°	114.5	114.6	114.8	114.9	115.1	115.5	116.0	116.4	116.8	117.2	117.5
107.5°	143.5	143.6	143.8	144.0	144.0	144.0	144.1	144.2	144.3	144.6	144.9
110°	163.2	163.5	163.7	163.9	163.9	163.8	163.8	163.7	163.5	163.3	163.1





TEST NUMBER: P332545-935

CATALOG NUMBER: SA4XXDIP-C575D590U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	183.5	183.6	183.6	183.7	183.6	183.4	183.1	183.0	182.8	182.7	182.7
115°	214.1	214.1	214.1	214.1	214.0	213.8	213.5	213.4	213.1	213.0	212.9
117.5°	243.1	243.1	243.2	243.3	243.3	243.1	243.0	242.8	242.7	242.3	241.9
120°	262.7	263.1	263.6	264.0	264.1	263.7	263.4	263.0	262.7	262.2	261.7
122.5°	282.4	282.6	282.8	282.9	283.0	282.8	282.7	282.5	282.4	282.0	281.6
125°	311.9	311.9	311.9	311.9	311.8	311.7	311.6	311.4	311.3	311.1	310.9
127.5°	339.0	339.3	339.7	339.9	340.0	339.8	339.7	339.5	339.3	339.1	338.9
130°	357.8	358.2	358.5	358.8	359.0	359.0	359.0	359.0	359.0	358.8	358.5
132.5°	377.0	377.2	377.5	377.7	377.8	377.7	377.6	377.5	377.5	377.2	377.0
135°	402.9	403.5	404.2	404.8	405.1	405.1	405.1	405.1	405.1	404.9	404.7
137.5°	430.2	430.5	430.8	431.1	431.4	431.5	431.7	431.9	432.0	431.8	431.4
140°	448.6	448.8	449.0	449.2	449.4	449.4	449.4	449.4	449.4	449.2	449.1
142.5°	465.5	465.7	465.9	466.1	466.1	466.1	466.0	465.9	465.8	465.8	465.8
145°	489.0	489.5	489.9	490.3	490.6	490.8	490.9	490.9	491.0	490.9	490.9
147.5°	512.3	512.8	513.3	513.9	514.1	514.0	513.9	513.8	513.8	513.7	513.6
150°	526.4	526.8	527.3	527.7	527.9	527.9	527.9	527.9	527.9	527.9	527.9
152.5°	539.6	539.8	540.1	540.4	540.5	540.6	540.7	540.8	540.9	541.1	541.4
155°	559.8	559.8	559.8	559.8	559.7	559.6	559.6	559.5	559.3	559.7	560.2
157.5°	576.9	576.7	576.5	576.4	576.2	576.2	576.2	576.2	576.1	576.4	576.8
160°	587.2	587.1	587.0	586.9	586.8	586.7	586.6	586.4	586.3	586.7	587.0
162.5°	596.5	596.2	595.9	595.6	595.4	595.3	595.2	595.1	595.0	595.6	596.2
165°	609.1	608.7	608.5	608.1	607.9	607.6	607.4	607.2	607.0	607.6	608.3
167.5°	618.7	618.2	617.8	617.3	617.1	617.1	617.2	617.2	617.2	617.9	618.5
170°	624.1	623.5	623.0	622.4	622.2	622.3	622.4	622.6	622.7	623.4	624.0
172.5°	628.1	627.7	627.2	626.7	626.5	626.5	626.5	626.5	626.6	627.3	628.1
175°	633.4	632.9	632.3	631.8	631.5	631.4	631.3	631.1	631.0	631.8	632.6
177.5°	635.3	634.9	634.5	634.0	633.8	633.8	633.8	633.8	633.8	634.4	635.0
180°	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0



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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°	10.6	10.4	10.2	9.8	9.6	9.6	8.9
90°	12.7	13.4	13.9	14.1	14.3	14.6	14.7
92.5°	20.7	21.0	21.3	21.4	21.5	21.7	21.8
95°	38.3	38.7	38.8	38.8	38.8	38.8	38.8
97.5°	60.2	60.6	60.8	60.8	60.8	60.8	60.8
100°	75.8	76.0	76.1	76.1	76.1	76.1	76.1
102.5°	92.6	92.8	93.1	93.2	93.2	93.3	93.4
105°	117.9	118.2	118.5	118.8	119.2	119.5	119.9
107.5°	145.2	145.5	145.7	145.6	145.6	145.6	145.6
110°	162.9	162.6	162.7	163.1	163.3	163.7	164.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	182.6	182.6	182.6	182.7	182.7	182.8	182.9
115°	212.8	212.7	212.6	212.5	212.3	212.2	212.2
117.5°	241.6	241.2	240.9	240.6	240.5	240.2	240.0
120°	261.1	260.5	260.4	260.6	260.8	261.1	261.2
122.5°	281.3	280.9	280.5	280.1	279.7	279.3	279.0
125°	310.6	310.5	310.2	310.0	309.8	309.6	309.4
127.5°	338.7	338.5	338.3	338.1	337.9	337.8	337.6
130°	358.3	358.1	357.7	357.3	356.9	356.5	356.0
132.5°	376.8	376.6	376.3	376.2	376.0	375.8	375.7
135°	404.5	404.2	404.0	403.6	403.3	403.0	402.7
137.5°	431.2	430.9	430.8	430.8	430.9	431.0	431.1
140°	449.0	448.9	448.8	448.7	448.6	448.5	448.3
142.5°	465.8	465.7	465.7	465.7	465.7	465.6	465.6
145°	490.8	490.6	490.4	490.1	489.7	489.4	489.1
147.5°	513.5	513.4	513.3	513.2	513.1	513.0	512.9
150°	527.9	527.9	527.9	527.7	527.6	527.5	527.4
152.5°	541.7	541.9	541.9	541.7	541.3	541.1	540.8
155°	560.6	561.1	561.1	560.6	560.2	559.7	559.3
157.5°	577.1	577.5	577.4	577.0	576.7	576.3	575.9
160°	587.3	587.6	587.5	587.0	586.4	585.9	585.4
162.5°	596.8	597.4	597.4	596.8	596.2	595.7	595.2
165°	608.9	609.6	609.7	609.2	608.8	608.4	608.0
167.5°	619.1	619.8	619.7	619.1	618.5	617.8	617.1
170°	624.7	625.3	625.3	624.5	623.7	622.9	622.2
172.5°	628.9	629.6	629.6	628.8	628.0	627.2	626.5
175°	633.4	634.0	634.0	633.4	632.6	631.8	631.0
177.5°	635.6	636.2	636.2	635.5	634.8	634.0	633.4
180°	635.0	635.0	635.0	635.0	635.0	635.0	635.0

(END OF REPORT)