

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

Luminaire Tested: **SA4XXDIP-C575D590U835-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P332545  
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-C575D590U835-4F0-1E-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**

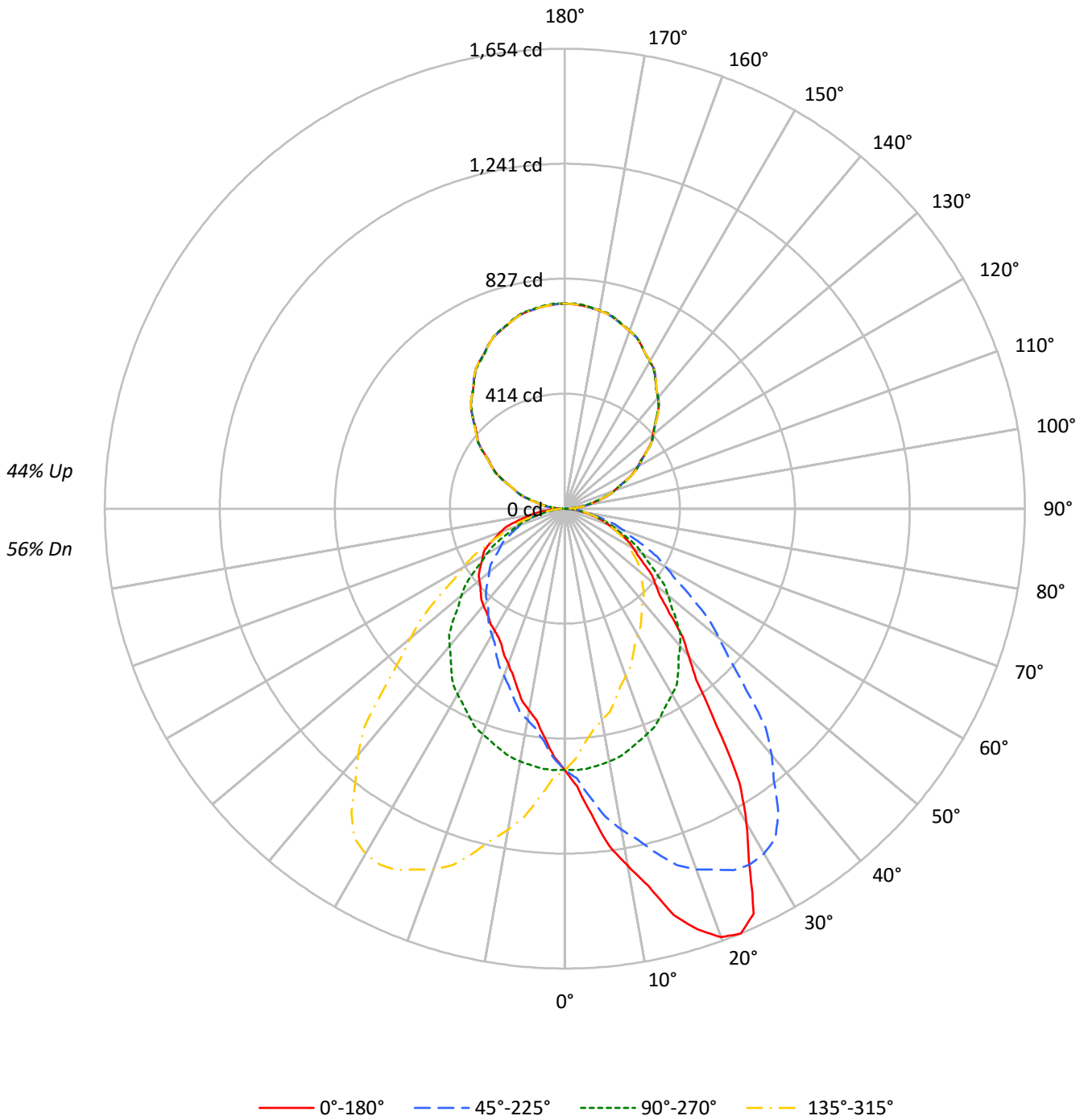
Lumens per Lamp: N/A  
Luminaire Lumens: 4639.6 lumens  
Efficiency: N/A  
Efficacy: 141.5 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41  
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')  
CIE Type: General Diffuse

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	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°	7582	7582	7582	7582
5°	8930	7602	6710	7602
10°	10691	7569	6041	7569
15°	12649	7492	5548	7492
20°	14086	7414	5107	7414
25°	14313	7299	4804	7299
30°	12179	7189	4708	7189
35°	9363	7009	4709	7009
40°	7299	6798	4797	6798
45°	6085	6481	4877	6481
50°	5355	6094	5043	6094
55°	4906	5630	5246	5630
60°	4598	5214	5491	5214
65°	4281	4749	5692	4749
70°	3911	4289	5823	4289
75°	3497	3774	5752	3774
80°	2929	3092	5570	3092
85°	2158	2232	5335	2232



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.5	2.0
10°-20°	282.0	6.1
20°-30°	447.2	9.6
30°-40°	497.7	10.7
40°-50°	453.1	9.8
50°-60°	370.2	8.0
60°-70°	264.3	5.7
70°-80°	145.5	3.1
80°-90°	41.9	0.9
90°-100°	48.6	1.0
100°-110°	144.1	3.1
110°-120°	244.6	5.3
120°-130°	322.5	7.0
130°-140°	362.2	7.8
140°-150°	355.9	7.7
150°-160°	299.3	6.5
160°-170°	199.1	4.3
170°-180°	69.7	1.5
0°-30°	820.8	17.7
0°-40°	1318.5	28.4
0°-60°	2141.8	46.2
0°-90°	2593.6	55.9
90°-120°	437.3	9.4
90°-150°	1477.8	31.9
90°-180°	2046.0	44.1
0°-180°	4639.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	939	939	939	939	939	
5°	1102	938	828	938	1102	112
15°	1514	896	664	896	1514	428
25°	1607	819	539	819	1607	708
35°	950	711	478	711	950	603
45°	533	568	427	568	533	420
55°	349	400	373	400	349	315
65°	224	249	298	249	224	222
75°	112	121	184	121	112	119
85°	23	24	58	24	23	29
90°	17	2	17	2	17	10
95°	45	34	45	34	45	47
105°	139	133	139	133	139	147
115°	246	249	246	249	246	244
125°	359	362	359	362	359	321
135°	468	467	468	467	468	361
145°	568	568	568	568	568	355
155°	650	650	650	650	650	299
165°	706	708	706	708	706	199
175°	733	736	733	736	733	70
180°	738	738	738	738	738	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	939.2	939.2	939.2	939.2	939.2	939.2	939.2	939.2	939.2	939.2	939.2
2.5°	999.6	999.3	996.2	995.6	993.4	990.6	990.0	985.0	975.0	970.4	969.1
5°	1101.9	1109.7	1099.5	1097.6	1096.4	1083.6	1077.0	1069.2	1051.3	1040.8	1032.6
7.5°	1223.9	1224.8	1220.4	1216.8	1206.9	1195.7	1178.9	1161.0	1139.7	1117.5	1100.8
10°	1304.2	1307.3	1302.3	1301.5	1281.6	1269.2	1244.3	1223.3	1199.1	1172.3	1147.8
12.5°	1388.9	1384.5	1381.9	1365.3	1361.6	1338.9	1310.0	1288.3	1251.1	1220.2	1187.6
15°	1513.5	1505.0	1499.5	1476.6	1465.3	1433.8	1403.0	1379.3	1330.7	1284.4	1249.3
17.5°	1586.7	1595.2	1582.6	1573.2	1544.0	1521.9	1490.5	1440.7	1402.6	1345.1	1300.9
20°	1639.6	1640.4	1633.4	1623.6	1600.7	1572.7	1538.4	1484.0	1438.4	1381.2	1320.5
22.5°	1653.9	1654.1	1651.1	1642.0	1624.6	1601.9	1567.4	1521.9	1466.8	1404.6	1343.9
25°	1606.9	1605.4	1608.9	1619.0	1612.4	1605.4	1585.5	1551.7	1500.3	1434.5	1369.2
27.5°	1432.3	1443.0	1462.8	1487.7	1511.7	1529.9	1535.1	1528.2	1496.3	1442.2	1373.8
30°	1306.5	1319.8	1334.5	1359.5	1407.7	1435.3	1465.7	1488.6	1475.8	1432.6	1368.8
32.5°	1168.3	1171.6	1193.5	1221.9	1266.1	1319.2	1367.3	1413.9	1429.4	1406.8	1353.5
35°	950.1	955.6	979.3	1007.3	1061.4	1126.4	1198.8	1263.3	1316.7	1338.1	1310.8
37.5°	775.4	791.0	807.7	837.8	885.5	944.0	1019.2	1102.7	1182.2	1235.4	1244.4
40°	692.6	702.3	714.4	737.3	777.8	835.4	899.9	995.7	1080.1	1156.4	1181.3
42.5°	627.2	632.9	640.3	661.0	691.9	749.1	808.1	892.3	977.1	1068.3	1110.0
45°	533.0	538.9	551.3	563.4	586.7	626.4	681.3	750.5	835.7	923.7	1000.7
47.5°	465.0	468.8	476.2	489.1	508.9	535.1	579.7	637.5	716.5	801.9	884.0
50°	426.4	429.5	435.4	447.1	462.2	485.6	522.1	576.2	638.1	724.1	804.6
52.5°	395.9	397.2	401.5	409.4	421.5	441.1	471.1	515.8	573.4	650.0	730.2
55°	348.6	350.2	354.1	359.9	370.4	382.9	405.8	439.3	489.5	556.0	625.6
57.5°	309.7	310.8	314.1	316.3	325.0	335.1	352.7	376.6	414.7	471.1	533.3
60°	284.8	284.0	287.9	289.9	295.7	304.3	317.9	340.8	373.9	419.4	476.6
62.5°	260.5	259.4	262.7	265.3	268.6	275.9	287.1	305.0	331.9	373.1	422.5
65°	224.1	222.6	224.5	227.6	230.7	234.6	242.8	258.7	280.1	309.7	347.4
67.5°	187.5	189.2	189.5	191.0	192.8	198.1	203.7	215.0	230.1	253.8	285.7
70°	165.7	166.1	167.7	167.7	168.9	173.5	178.2	184.8	199.6	221.4	247.5
72.5°	144.0	145.6	145.0	146.2	147.1	150.2	153.6	159.9	172.5	188.7	210.7
75°	112.1	113.2	113.2	113.6	114.8	115.9	118.7	123.3	132.3	144.3	159.5
77.5°	81.7	81.9	82.4	83.8	83.8	85.7	87.7	91.4	95.9	104.1	113.4
80°	63.0	63.8	63.4	64.2	64.2	65.8	66.5	71.2	73.1	78.6	86.0
82.5°	46.2	47.0	46.9	48.0	48.6	48.9	50.0	51.9	53.8	58.7	61.7
85°	23.3	24.1	23.3	24.1	25.3	25.7	26.8	27.2	28.8	30.0	32.7
87.5°	10.3	11.2	11.1	11.4	11.9	12.1	12.3	11.8	12.9	13.1	14.1
90°	17.1	16.9	16.6	16.4	16.1	15.6	14.8	14.1	13.3	12.5	11.5
92.5°	25.3	25.2	25.0	24.9	24.7	24.4	24.0	23.5	23.0	22.6	21.9
95°	45.1	45.1	45.1	45.1	45.1	44.9	44.5	44.1	43.7	43.3	42.5
97.5°	70.6	70.6	70.6	70.6	70.6	70.4	69.9	69.5	69.0	68.6	67.5
100°	88.4	88.4	88.4	88.4	88.4	88.3	88.0	87.8	87.5	87.3	86.1
102.5°	108.5	108.4	108.3	108.2	108.1	107.8	107.5	107.1	106.8	106.4	105.4
105°	139.2	138.8	138.4	138.0	137.6	137.3	136.9	136.5	136.1	135.7	135.2
107.5°	169.1	169.1	169.1	169.1	169.2	169.0	168.6	168.3	167.9	167.6	167.5
110°	190.5	190.1	189.7	189.4	189.0	188.9	189.2	189.4	189.7	189.9	190.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	212.4	212.3	212.2	212.2	212.1	212.1	212.1	212.2	212.2	212.3	212.5
115°	246.4	246.5	246.6	246.8	246.9	247.0	247.2	247.3	247.4	247.5	247.8
117.5°	278.8	279.0	279.3	279.5	279.8	280.1	280.6	281.0	281.4	281.9	282.0
120°	303.4	303.2	302.9	302.7	302.4	302.6	303.2	303.9	304.5	305.1	305.5
122.5°	324.0	324.4	324.9	325.3	325.8	326.2	326.7	327.1	327.5	328.0	328.1
125°	359.3	359.6	359.8	360.1	360.3	360.6	360.8	361.1	361.3	361.6	361.7
127.5°	392.1	392.3	392.5	392.7	392.9	393.1	393.4	393.6	393.9	394.1	394.3
130°	413.5	414.0	414.5	415.0	415.5	415.9	416.2	416.4	416.7	416.9	416.9
132.5°	436.3	436.5	436.7	436.9	437.1	437.4	437.6	437.9	438.1	438.4	438.5
135°	467.7	468.1	468.4	468.8	469.2	469.5	469.8	470.0	470.3	470.5	470.5
137.5°	500.7	500.6	500.5	500.4	500.3	500.5	500.8	501.1	501.5	501.8	501.6
140°	520.7	520.9	521.0	521.1	521.2	521.4	521.5	521.6	521.7	521.9	521.9
142.5°	540.8	540.8	540.9	540.9	540.9	540.9	541.0	541.0	541.0	541.0	541.1
145°	568.1	568.4	568.8	569.2	569.6	569.8	570.0	570.1	570.2	570.3	570.2
147.5°	595.7	595.8	595.9	596.1	596.2	596.3	596.4	596.5	596.6	596.7	596.8
150°	612.6	612.7	612.8	612.9	613.1	613.1	613.1	613.1	613.1	613.1	613.1
152.5°	628.1	628.4	628.7	629.1	629.4	629.4	629.1	628.8	628.5	628.2	628.1
155°	649.6	650.1	650.6	651.1	651.7	651.7	651.1	650.6	650.1	649.6	649.8
157.5°	668.9	669.3	669.8	670.2	670.6	670.7	670.3	669.9	669.5	669.1	669.2
160°	679.9	680.5	681.1	681.8	682.4	682.5	682.1	681.8	681.4	681.0	681.1
162.5°	691.3	691.9	692.5	693.2	693.8	693.8	693.1	692.4	691.7	691.0	691.2
165°	706.1	706.6	707.1	707.6	708.1	708.0	707.2	706.5	705.7	705.0	705.2
167.5°	716.7	717.5	718.3	719.1	719.8	719.9	719.1	718.3	717.6	716.8	716.8
170°	722.6	723.5	724.4	725.3	726.2	726.2	725.5	724.7	724.0	723.2	723.1
172.5°	727.7	728.5	729.4	730.3	731.2	731.2	730.4	729.5	728.6	727.8	727.7
175°	732.9	733.8	734.7	735.6	736.4	736.4	735.6	734.7	733.8	732.9	733.0
177.5°	735.6	736.4	737.3	738.1	738.9	738.9	738.2	737.5	736.8	736.1	736.1
180°	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	939.2	939.2	939.2	939.2	939.2	939.2	939.2	939.2	939.2	939.2	939.2
2.5°	969.4	965.1	962.0	959.5	952.6	948.6	945.5	941.1	936.1	930.8	924.3
5°	1024.5	1011.2	1001.5	986.7	972.7	961.0	949.0	938.1	924.8	910.5	899.9
7.5°	1082.3	1062.6	1037.4	1015.5	990.9	969.5	950.4	930.8	910.4	890.6	872.5
10°	1119.0	1093.7	1065.7	1032.6	1001.5	973.9	948.2	923.3	899.2	875.0	854.4
12.5°	1158.5	1127.0	1085.6	1046.9	1012.1	975.1	944.1	913.6	884.5	859.2	835.1
15°	1211.6	1166.1	1118.2	1066.5	1020.6	977.4	935.0	896.4	863.8	830.3	807.0
17.5°	1244.2	1187.9	1133.2	1079.1	1023.5	969.0	923.3	878.9	837.9	804.7	775.3
20°	1265.7	1209.7	1141.6	1087.5	1021.3	965.3	912.4	863.0	820.2	784.8	754.4
22.5°	1284.4	1219.6	1151.5	1080.3	1014.5	955.0	897.1	847.4	803.7	766.4	737.3
25°	1294.5	1220.2	1146.2	1075.4	1000.7	930.3	877.8	819.4	772.7	733.4	702.3
27.5°	1295.6	1216.1	1132.5	1053.8	976.7	911.1	844.8	792.6	744.2	702.6	672.7
30°	1292.1	1209.3	1119.4	1034.2	956.8	885.5	828.0	771.2	721.7	680.5	649.4
32.5°	1281.2	1194.9	1102.6	1012.4	932.2	862.5	803.1	749.1	700.9	660.3	627.6
35°	1249.7	1164.5	1066.1	972.3	890.2	819.8	766.1	711.2	663.0	624.5	593.0
37.5°	1200.5	1123.4	1023.4	926.3	845.7	775.0	721.7	672.2	628.7	589.5	557.2
40°	1157.5	1089.8	989.4	894.9	807.7	740.4	690.6	645.1	601.9	564.9	534.2
42.5°	1108.0	1049.0	956.4	856.3	772.2	704.6	656.1	615.2	574.5	540.4	509.6
45°	1019.8	980.9	893.7	801.1	713.6	649.8	603.5	567.7	533.4	500.0	474.3
47.5°	918.3	899.0	825.6	737.7	654.6	591.7	551.6	518.5	488.5	460.1	437.5
50°	850.1	840.8	777.4	692.6	613.2	554.1	513.6	485.2	459.5	434.6	413.2
52.5°	782.9	782.6	725.4	647.7	574.3	517.3	477.2	450.6	428.4	408.1	388.9
55°	680.1	691.0	646.3	577.0	511.3	459.9	423.7	400.0	384.4	367.7	353.3
57.5°	585.7	603.8	566.9	505.9	451.0	403.7	372.2	354.4	337.8	327.7	317.2
60°	524.1	541.2	512.4	461.1	409.3	368.8	338.9	322.9	308.5	301.5	294.1
62.5°	469.3	484.6	463.2	415.6	370.7	331.8	306.5	291.2	281.5	273.8	268.9
65°	391.0	403.9	385.6	351.0	312.4	281.3	260.7	248.6	239.3	236.2	230.7
67.5°	316.1	327.8	317.9	288.5	257.6	234.0	217.9	206.3	200.8	198.0	194.2
70°	271.6	283.3	272.7	247.1	223.3	203.5	188.3	181.7	175.9	174.7	169.3
72.5°	233.9	241.9	231.3	211.3	191.0	174.2	162.5	155.6	152.5	150.4	147.5
75°	175.5	182.5	175.5	159.9	145.5	133.8	123.7	121.0	117.5	116.3	114.4
77.5°	124.2	130.3	124.9	115.2	104.4	95.4	90.0	86.5	85.7	83.7	84.6
80°	94.9	98.8	93.8	87.2	78.6	72.4	68.5	66.5	64.2	63.4	65.0
82.5°	68.2	69.9	67.3	62.9	56.5	52.4	49.8	47.5	47.1	47.2	47.2
85°	35.4	35.0	34.6	30.7	28.8	26.1	24.5	24.1	23.7	24.5	25.3
87.5°	13.9	14.0	13.5	12.0	10.8	9.6	9.0	8.4	9.0	9.6	10.2
90°	10.5	9.5	8.5	7.3	5.9	4.5	3.1	1.7	3.1	4.5	5.9
92.5°	21.2	20.5	19.7	18.6	17.0	15.4	13.8	12.2	13.8	15.4	17.0
95°	41.6	40.7	39.8	38.8	37.6	36.5	35.4	34.2	35.4	36.5	37.6
97.5°	66.5	65.4	64.4	63.4	62.5	61.6	60.7	59.8	60.7	61.6	62.5
100°	85.0	83.8	82.7	81.9	81.4	80.9	80.4	79.8	80.4	80.9	81.4
102.5°	104.3	103.3	102.3	101.6	101.4	101.2	101.0	100.8	101.0	101.2	101.4
105°	134.7	134.2	133.7	133.4	133.3	133.1	133.0	132.9	133.0	133.1	133.3
107.5°	167.4	167.3	167.3	167.2	167.0	166.8	166.7	166.5	166.7	166.8	167.0
110°	190.2	190.3	190.4	190.4	190.1	189.9	189.6	189.4	189.6	189.9	190.1





TEST NUMBER: P332545

CATALOG NUMBER: SA4XXDIP-C575D590U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	212.7	213.0	213.2	213.3	213.2	213.2	213.1	213.1	213.1	213.2	213.2
115°	248.0	248.3	248.5	248.7	248.7	248.7	248.7	248.7	248.7	248.7	248.7
117.5°	282.2	282.4	282.6	282.6	282.5	282.4	282.3	282.2	282.3	282.4	282.5
120°	305.9	306.3	306.7	306.6	306.1	305.6	305.1	304.6	305.1	305.6	306.1
122.5°	328.3	328.5	328.7	328.6	328.4	328.2	328.0	327.8	328.0	328.2	328.4
125°	361.9	362.0	362.1	362.2	362.2	362.2	362.2	362.2	362.2	362.2	362.2
127.5°	394.5	394.7	394.9	394.8	394.5	394.1	393.7	393.3	393.7	394.1	394.5
130°	416.9	416.9	416.9	416.7	416.4	416.0	415.6	415.2	415.6	416.0	416.4
132.5°	438.6	438.7	438.8	438.7	438.4	438.1	437.9	437.6	437.9	438.1	438.4
135°	470.5	470.5	470.5	470.2	469.4	468.6	467.9	467.1	467.9	468.6	469.4
137.5°	501.4	501.2	501.0	500.7	500.3	500.0	499.6	499.3	499.6	500.0	500.3
140°	521.9	521.9	521.9	521.7	521.5	521.2	521.0	520.7	521.0	521.2	521.5
142.5°	541.2	541.3	541.4	541.4	541.1	540.9	540.6	540.3	540.6	540.9	541.1
145°	570.1	570.0	569.8	569.5	569.0	568.5	568.0	567.5	568.0	568.5	569.0
147.5°	596.9	597.0	597.1	596.9	596.2	595.6	595.0	594.4	595.0	595.6	596.2
150°	613.1	613.1	613.1	612.9	612.4	611.9	611.4	610.8	611.4	611.9	612.4
152.5°	628.0	627.9	627.8	627.6	627.3	627.0	626.7	626.4	626.7	627.0	627.3
155°	649.9	650.0	650.1	650.2	650.2	650.2	650.2	650.2	650.2	650.2	650.2
157.5°	669.2	669.2	669.2	669.4	669.6	669.8	670.0	670.3	670.0	669.8	669.6
160°	681.3	681.4	681.5	681.6	681.8	681.9	682.0	682.1	682.0	681.9	681.8
162.5°	691.3	691.4	691.5	691.8	692.1	692.4	692.8	693.1	692.8	692.4	692.1
165°	705.5	705.7	706.0	706.3	706.7	707.0	707.4	707.8	707.4	707.0	706.7
167.5°	716.8	716.7	716.7	717.0	717.5	718.0	718.6	719.1	718.6	718.0	717.5
170°	722.9	722.8	722.7	722.9	723.6	724.2	724.9	725.5	724.9	724.2	723.6
172.5°	727.7	727.7	727.7	727.9	728.5	729.0	729.5	730.0	729.5	729.0	728.5
175°	733.2	733.3	733.4	733.8	734.4	735.1	735.7	736.3	735.7	735.1	734.4
177.5°	736.1	736.1	736.1	736.3	736.9	737.4	737.9	738.4	737.9	737.4	736.9
180°	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5



TEST NUMBER: P332545

CATALOG NUMBER: SA4XXDIP-C575D590U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	939.2	939.2	939.2	939.2	939.2	939.2	939.2	939.2	939.2	939.2	939.2
2.5°	921.2	918.4	914.3	908.7	904.1	899.1	897.8	896.0	899.7	896.6	895.7
5°	891.0	882.8	872.3	860.3	853.3	843.1	841.2	837.3	833.4	833.0	829.1
7.5°	859.0	847.0	833.3	821.0	809.6	798.6	791.3	789.8	784.0	780.7	776.8
10°	838.5	823.7	807.7	796.1	782.8	771.2	763.0	758.3	754.4	750.1	746.3
12.5°	814.2	798.5	785.3	772.7	757.0	748.1	734.7	726.6	725.8	725.9	715.8
15°	785.9	770.4	750.1	732.3	723.7	706.6	699.2	689.8	684.0	678.2	673.5
17.5°	753.7	734.3	718.5	697.9	681.6	668.0	658.2	652.6	643.9	635.6	629.6
20°	733.4	712.8	696.1	674.3	656.4	639.7	631.5	623.7	617.1	610.1	603.5
22.5°	712.9	691.3	670.9	649.7	633.0	615.4	607.5	596.9	590.6	586.7	580.1
25°	680.5	657.2	633.8	613.6	596.5	580.9	570.4	562.2	555.2	552.1	547.8
27.5°	645.3	622.1	599.6	576.6	557.2	545.9	537.5	531.3	527.3	523.2	521.2
30°	622.9	598.8	574.7	553.3	535.4	524.1	516.3	512.0	508.9	507.0	505.0
32.5°	600.2	576.4	551.0	531.5	515.5	505.4	499.5	495.2	493.7	493.0	492.3
35°	563.8	539.7	516.3	498.8	483.6	479.7	474.7	472.3	471.6	474.3	475.5
37.5°	528.5	506.1	484.6	467.7	457.7	452.0	450.3	450.4	453.2	455.6	458.4
40°	505.8	484.0	463.8	449.0	439.7	436.2	435.4	437.3	440.4	443.2	446.3
42.5°	483.7	462.2	443.9	430.0	423.5	420.3	420.8	422.7	427.1	430.4	435.1
45°	449.4	431.5	413.6	402.3	396.9	397.6	397.6	401.1	405.4	410.5	415.5
47.5°	417.1	399.0	384.3	374.8	372.0	371.3	373.5	378.1	384.3	390.5	397.6
50°	395.3	378.2	365.3	356.8	353.7	354.8	358.0	362.2	369.6	377.4	384.8
52.5°	373.2	357.6	345.7	337.8	335.6	337.7	340.8	347.6	354.1	362.5	371.4
55°	338.9	325.7	316.3	310.5	309.7	310.9	314.4	321.8	331.1	341.6	350.2
57.5°	304.7	293.7	285.1	281.1	281.5	282.6	288.3	297.1	307.1	318.3	329.3
60°	281.7	271.6	264.6	261.5	261.9	264.2	271.2	279.4	291.8	302.7	314.4
62.5°	259.9	251.0	244.3	241.5	241.0	246.1	252.8	261.3	273.8	285.9	298.5
65°	224.9	217.9	212.4	210.9	212.0	215.9	224.5	235.8	246.3	259.1	272.4
67.5°	190.6	184.9	181.2	181.9	183.3	189.0	196.2	205.9	217.8	231.1	244.2
70°	168.9	163.4	160.3	160.7	163.0	170.0	176.3	186.0	198.8	212.4	223.3
72.5°	146.5	142.9	140.1	141.7	144.0	148.9	156.6	166.4	177.7	190.3	201.9
75°	112.4	112.4	110.9	112.1	115.6	120.2	126.1	136.2	147.5	157.6	166.9
77.5°	83.4	82.6	83.6	85.0	87.0	92.5	99.2	106.5	114.9	125.1	132.8
80°	63.8	64.2	66.1	68.5	69.3	73.5	80.5	87.2	93.8	102.3	109.7
82.5°	47.9	48.3	49.3	52.3	53.1	57.7	62.2	68.8	74.8	80.5	86.7
85°	26.1	26.1	28.0	29.2	31.1	34.2	37.0	40.9	46.3	50.2	56.0
87.5°	11.4	11.7	13.1	13.9	15.1	16.8	17.6	21.2	22.6	24.3	27.2
90°	7.3	8.5	9.5	10.5	11.5	12.5	13.3	14.1	14.8	15.6	16.1
92.5°	18.6	19.7	20.5	21.2	21.9	22.6	23.0	23.5	24.0	24.4	24.7
95°	38.8	39.8	40.7	41.6	42.5	43.3	43.7	44.1	44.5	44.9	45.1
97.5°	63.4	64.4	65.4	66.5	67.5	68.6	69.0	69.5	69.9	70.4	70.6
100°	81.9	82.7	83.8	85.0	86.1	87.3	87.5	87.8	88.0	88.3	88.4
102.5°	101.6	102.3	103.3	104.3	105.4	106.4	106.8	107.1	107.5	107.8	108.1
105°	133.4	133.7	134.2	134.7	135.2	135.7	136.1	136.5	136.9	137.3	137.6
107.5°	167.2	167.3	167.3	167.4	167.5	167.6	167.9	168.3	168.6	169.0	169.2
110°	190.4	190.4	190.3	190.2	190.1	189.9	189.7	189.4	189.2	188.9	189.0



TEST NUMBER: P332545

CATALOG NUMBER: SA4XXDIP-C575D590U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	213.3	213.2	213.0	212.7	212.5	212.3	212.2	212.2	212.1	212.1	212.1
115°	248.7	248.5	248.3	248.0	247.8	247.5	247.4	247.3	247.2	247.0	246.9
117.5°	282.6	282.6	282.4	282.2	282.0	281.9	281.4	281.0	280.6	280.1	279.8
120°	306.6	306.7	306.3	305.9	305.5	305.1	304.5	303.9	303.2	302.6	302.4
122.5°	328.6	328.7	328.5	328.3	328.1	328.0	327.5	327.1	326.7	326.2	325.8
125°	362.2	362.1	362.0	361.9	361.7	361.6	361.3	361.1	360.8	360.6	360.3
127.5°	394.8	394.9	394.7	394.5	394.3	394.1	393.9	393.6	393.4	393.1	392.9
130°	416.7	416.9	416.9	416.9	416.9	416.9	416.7	416.4	416.2	415.9	415.5
132.5°	438.7	438.8	438.7	438.6	438.5	438.4	438.1	437.9	437.6	437.4	437.1
135°	470.2	470.5	470.5	470.5	470.5	470.5	470.3	470.0	469.8	469.5	469.2
137.5°	500.7	501.0	501.2	501.4	501.6	501.8	501.5	501.1	500.8	500.5	500.3
140°	521.7	521.9	521.9	521.9	521.9	521.9	521.7	521.6	521.5	521.4	521.2
142.5°	541.4	541.4	541.3	541.2	541.1	541.0	541.0	541.0	541.0	540.9	540.9
145°	569.5	569.8	570.0	570.1	570.2	570.3	570.2	570.1	570.0	569.8	569.6
147.5°	596.9	597.1	597.0	596.9	596.8	596.7	596.6	596.5	596.4	596.3	596.2
150°	612.9	613.1	613.1	613.1	613.1	613.1	613.1	613.1	613.1	613.1	613.1
152.5°	627.6	627.8	627.9	628.0	628.1	628.2	628.5	628.8	629.1	629.4	629.4
155°	650.2	650.1	650.0	649.9	649.8	649.6	650.1	650.6	651.1	651.7	651.7
157.5°	669.4	669.2	669.2	669.2	669.2	669.1	669.5	669.9	670.3	670.7	670.6
160°	681.6	681.5	681.4	681.3	681.1	681.0	681.4	681.8	682.1	682.5	682.4
162.5°	691.8	691.5	691.4	691.3	691.2	691.0	691.7	692.4	693.1	693.8	693.8
165°	706.3	706.0	705.7	705.5	705.2	705.0	705.7	706.5	707.2	708.0	708.1
167.5°	717.0	716.7	716.7	716.8	716.8	716.8	717.6	718.3	719.1	719.9	719.8
170°	722.9	722.7	722.8	722.9	723.1	723.2	724.0	724.7	725.5	726.2	726.2
172.5°	727.9	727.7	727.7	727.7	727.7	727.8	728.6	729.5	730.4	731.2	731.2
175°	733.8	733.4	733.3	733.2	733.0	732.9	733.8	734.7	735.6	736.4	736.4
177.5°	736.3	736.1	736.1	736.1	736.1	736.1	736.8	737.5	738.2	738.9	738.9
180°	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5



TEST NUMBER: P332545

CATALOG NUMBER: SA4XXDIP-C575D590U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	939.2	939.2	939.2	939.2	939.2	939.2	939.2	939.2	939.2	939.2	939.2
2.5°	895.0	894.4	892.2	891.9	892.2	894.4	895.0	895.7	896.6	899.7	896.0
5°	826.8	824.9	823.7	828.0	823.7	824.9	826.8	829.1	833.0	833.4	837.3
7.5°	775.4	773.8	770.4	769.3	770.4	773.8	775.4	776.8	780.7	784.0	789.8
10°	742.4	740.8	737.7	736.9	737.7	740.8	742.4	746.3	750.1	754.4	758.3
12.5°	710.6	707.5	706.9	707.7	706.9	707.5	710.6	715.8	725.9	725.8	726.6
15°	668.4	666.9	662.6	663.8	662.6	666.9	668.4	673.5	678.2	684.0	689.8
17.5°	626.9	625.0	619.8	624.4	619.8	625.0	626.9	629.6	635.6	643.9	652.6
20°	600.7	597.6	594.9	594.5	594.9	597.6	600.7	603.5	610.1	617.1	623.7
22.5°	575.8	573.0	572.8	570.2	572.8	573.0	575.8	580.1	586.7	590.6	596.9
25°	544.7	542.0	541.2	539.3	541.2	542.0	544.7	547.8	552.1	555.2	562.2
27.5°	520.8	519.5	518.1	518.7	518.1	519.5	520.8	521.2	523.2	527.3	531.3
30°	506.2	505.8	505.0	505.0	505.0	505.8	506.2	505.0	507.0	508.9	512.0
32.5°	494.1	494.0	494.4	494.4	494.4	494.0	494.1	492.3	493.0	493.7	495.2
35°	477.0	478.2	479.0	477.8	479.0	478.2	477.0	475.5	474.3	471.6	472.3
37.5°	461.6	462.8	463.9	465.2	463.9	462.8	461.6	458.4	455.6	453.2	450.4
40°	449.8	452.5	453.3	455.2	453.3	452.5	449.8	446.3	443.2	440.4	437.3
42.5°	438.6	441.6	443.6	444.0	443.6	441.6	438.6	435.1	430.4	427.1	422.7
45°	421.4	424.5	427.2	427.2	427.2	424.5	421.4	415.5	410.5	405.4	401.1
47.5°	403.6	408.1	410.8	411.5	410.8	408.1	403.6	397.6	390.5	384.3	378.1
50°	391.4	396.9	399.6	401.5	399.6	396.9	391.4	384.8	377.4	369.6	362.2
52.5°	379.6	385.0	388.7	389.7	388.7	385.0	379.6	371.4	362.5	354.1	347.6
55°	359.1	366.9	371.2	372.7	371.2	366.9	359.1	350.2	341.6	331.1	321.8
57.5°	339.8	347.0	352.0	353.1	352.0	347.0	339.8	329.3	318.3	307.1	297.1
60°	324.9	332.7	338.9	340.1	338.9	332.7	324.9	314.4	302.7	291.8	279.4
62.5°	309.6	317.7	323.3	326.4	323.3	317.7	309.6	298.5	285.9	273.8	261.3
65°	283.3	291.4	296.9	298.0	296.9	291.4	283.3	272.4	259.1	246.3	235.8
67.5°	254.5	262.6	266.2	268.5	266.2	262.6	254.5	244.2	231.1	217.8	205.9
70°	234.2	240.8	244.7	246.7	244.7	240.8	234.2	223.3	212.4	198.8	186.0
72.5°	211.2	218.1	222.6	223.0	222.6	218.1	211.2	201.9	190.3	177.7	166.4
75°	175.9	182.1	184.4	184.4	184.4	182.1	175.9	166.9	157.6	147.5	136.2
77.5°	139.2	142.4	145.4	146.0	145.4	142.4	139.2	132.8	125.1	114.9	106.5
80°	115.6	117.5	119.8	119.8	119.8	117.5	115.6	109.7	102.3	93.8	87.2
82.5°	91.3	92.9	95.2	94.9	95.2	92.9	91.3	86.7	80.5	74.8	68.8
85°	55.2	58.8	58.4	57.6	58.4	58.8	55.2	56.0	50.2	46.3	40.9
87.5°	28.2	28.5	29.5	30.2	29.5	28.5	28.2	27.2	24.3	22.6	21.2
90°	16.4	16.6	16.9	17.1	16.9	16.6	16.4	16.1	15.6	14.8	14.1
92.5°	24.9	25.0	25.2	25.3	25.2	25.0	24.9	24.7	24.4	24.0	23.5
95°	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1	44.9	44.5	44.1
97.5°	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.4	69.9	69.5
100°	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.3	88.0	87.8
102.5°	108.2	108.3	108.4	108.5	108.4	108.3	108.2	108.1	107.8	107.5	107.1
105°	138.0	138.4	138.8	139.2	138.8	138.4	138.0	137.6	137.3	136.9	136.5
107.5°	169.1	169.1	169.1	169.1	169.1	169.1	169.1	169.2	169.0	168.6	168.3
110°	189.4	189.7	190.1	190.5	190.1	189.7	189.4	189.0	188.9	189.2	189.4



TEST NUMBER: P332545

CATALOG NUMBER: SA4XXDIP-C575D590U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	212.2	212.2	212.3	212.4	212.3	212.2	212.2	212.1	212.1	212.1	212.2
115°	246.8	246.6	246.5	246.4	246.5	246.6	246.8	246.9	247.0	247.2	247.3
117.5°	279.5	279.3	279.0	278.8	279.0	279.3	279.5	279.8	280.1	280.6	281.0
120°	302.7	302.9	303.2	303.4	303.2	302.9	302.7	302.4	302.6	303.2	303.9
122.5°	325.3	324.9	324.4	324.0	324.4	324.9	325.3	325.8	326.2	326.7	327.1
125°	360.1	359.8	359.6	359.3	359.6	359.8	360.1	360.3	360.6	360.8	361.1
127.5°	392.7	392.5	392.3	392.1	392.3	392.5	392.7	392.9	393.1	393.4	393.6
130°	415.0	414.5	414.0	413.5	414.0	414.5	415.0	415.5	415.9	416.2	416.4
132.5°	436.9	436.7	436.5	436.3	436.5	436.7	436.9	437.1	437.4	437.6	437.9
135°	468.8	468.4	468.1	467.7	468.1	468.4	468.8	469.2	469.5	469.8	470.0
137.5°	500.4	500.5	500.6	500.7	500.6	500.5	500.4	500.3	500.5	500.8	501.1
140°	521.1	521.0	520.9	520.7	520.9	521.0	521.1	521.2	521.4	521.5	521.6
142.5°	540.9	540.9	540.8	540.8	540.8	540.9	540.9	540.9	540.9	541.0	541.0
145°	569.2	568.8	568.4	568.1	568.4	568.8	569.2	569.6	569.8	570.0	570.1
147.5°	596.1	595.9	595.8	595.7	595.8	595.9	596.1	596.2	596.3	596.4	596.5
150°	612.9	612.8	612.7	612.6	612.7	612.8	612.9	613.1	613.1	613.1	613.1
152.5°	629.1	628.7	628.4	628.1	628.4	628.7	629.1	629.4	629.4	629.1	628.8
155°	651.1	650.6	650.1	649.6	650.1	650.6	651.1	651.7	651.7	651.1	650.6
157.5°	670.2	669.8	669.3	668.9	669.3	669.8	670.2	670.6	670.7	670.3	669.9
160°	681.8	681.1	680.5	679.9	680.5	681.1	681.8	682.4	682.5	682.1	681.8
162.5°	693.2	692.5	691.9	691.3	691.9	692.5	693.2	693.8	693.8	693.1	692.4
165°	707.6	707.1	706.6	706.1	706.6	707.1	707.6	708.1	708.0	707.2	706.5
167.5°	719.1	718.3	717.5	716.7	717.5	718.3	719.1	719.8	719.9	719.1	718.3
170°	725.3	724.4	723.5	722.6	723.5	724.4	725.3	726.2	726.2	725.5	724.7
172.5°	730.3	729.4	728.5	727.7	728.5	729.4	730.3	731.2	731.2	730.4	729.5
175°	735.6	734.7	733.8	732.9	733.8	734.7	735.6	736.4	736.4	735.6	734.7
177.5°	738.1	737.3	736.4	735.6	736.4	737.3	738.1	738.9	738.9	738.2	737.5
180°	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5



TEST NUMBER: P332545

CATALOG NUMBER: SA4XXDIP-C575D590U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	939.2	939.2	939.2	939.2	939.2	939.2	939.2	939.2	939.2	939.2	939.2
2.5°	897.8	899.1	904.1	908.7	914.3	918.4	921.2	924.3	930.8	936.1	941.1
5°	841.2	843.1	853.3	860.3	872.3	882.8	891.0	899.9	910.5	924.8	938.1
7.5°	791.3	798.6	809.6	821.0	833.3	847.0	859.0	872.5	890.6	910.4	930.8
10°	763.0	771.2	782.8	796.1	807.7	823.7	838.5	854.4	875.0	899.2	923.3
12.5°	734.7	748.1	757.0	772.7	785.3	798.5	814.2	835.1	859.2	884.5	913.6
15°	699.2	706.6	723.7	732.3	750.1	770.4	785.9	807.0	830.3	863.8	896.4
17.5°	658.2	668.0	681.6	697.9	718.5	734.3	753.7	775.3	804.7	837.9	878.9
20°	631.5	639.7	656.4	674.3	696.1	712.8	733.4	754.4	784.8	820.2	863.0
22.5°	607.5	615.4	633.0	649.7	670.9	691.3	712.9	737.3	766.4	803.7	847.4
25°	570.4	580.9	596.5	613.6	633.8	657.2	680.5	702.3	733.4	772.7	819.4
27.5°	537.5	545.9	557.2	576.6	599.6	622.1	645.3	672.7	702.6	744.2	792.6
30°	516.3	524.1	535.4	553.3	574.7	598.8	622.9	649.4	680.5	721.7	771.2
32.5°	499.5	505.4	515.5	531.5	551.0	576.4	600.2	627.6	660.3	700.9	749.1
35°	474.7	479.7	483.6	498.8	516.3	539.7	563.8	593.0	624.5	663.0	711.2
37.5°	450.3	452.0	457.7	467.7	484.6	506.1	528.5	557.2	589.5	628.7	672.2
40°	435.4	436.2	439.7	449.0	463.8	484.0	505.8	534.2	564.9	601.9	645.1
42.5°	420.8	420.3	423.5	430.0	443.9	462.2	483.7	509.6	540.4	574.5	615.2
45°	397.6	397.6	396.9	402.3	413.6	431.5	449.4	474.3	500.0	533.4	567.7
47.5°	373.5	371.3	372.0	374.8	384.3	399.0	417.1	437.5	460.1	488.5	518.5
50°	358.0	354.8	353.7	356.8	365.3	378.2	395.3	413.2	434.6	459.5	485.2
52.5°	340.8	337.7	335.6	337.8	345.7	357.6	373.2	388.9	408.1	428.4	450.6
55°	314.4	310.9	309.7	310.5	316.3	325.7	338.9	353.3	367.7	384.4	400.0
57.5°	288.3	282.6	281.5	281.1	285.1	293.7	304.7	317.2	327.7	337.8	354.4
60°	271.2	264.2	261.9	261.5	264.6	271.6	281.7	294.1	301.5	308.5	322.9
62.5°	252.8	246.1	241.0	241.5	244.3	251.0	259.9	268.9	273.8	281.5	291.2
65°	224.5	215.9	212.0	210.9	212.4	217.9	224.9	230.7	236.2	239.3	248.6
67.5°	196.2	189.0	183.3	181.9	181.2	184.9	190.6	194.2	198.0	200.8	206.3
70°	176.3	170.0	163.0	160.7	160.3	163.4	168.9	169.3	174.7	175.9	181.7
72.5°	156.6	148.9	144.0	141.7	140.1	142.9	146.5	147.5	150.4	152.5	155.6
75°	126.1	120.2	115.6	112.1	110.9	112.4	112.4	114.4	116.3	117.5	121.0
77.5°	99.2	92.5	87.0	85.0	83.6	82.6	83.4	84.6	83.7	85.7	86.5
80°	80.5	73.5	69.3	68.5	66.1	64.2	63.8	65.0	63.4	64.2	66.5
82.5°	62.2	57.7	53.1	52.3	49.3	48.3	47.9	47.2	47.2	47.1	47.5
85°	37.0	34.2	31.1	29.2	28.0	26.1	26.1	25.3	24.5	23.7	24.1
87.5°	17.6	16.8	15.1	13.9	13.1	11.7	11.4	10.2	9.6	9.0	8.4
90°	13.3	12.5	11.5	10.5	9.5	8.5	7.3	5.9	4.5	3.1	1.7
92.5°	23.0	22.6	21.9	21.2	20.5	19.7	18.6	17.0	15.4	13.8	12.2
95°	43.7	43.3	42.5	41.6	40.7	39.8	38.8	37.6	36.5	35.4	34.2
97.5°	69.0	68.6	67.5	66.5	65.4	64.4	63.4	62.5	61.6	60.7	59.8
100°	87.5	87.3	86.1	85.0	83.8	82.7	81.9	81.4	80.9	80.4	79.8
102.5°	106.8	106.4	105.4	104.3	103.3	102.3	101.6	101.4	101.2	101.0	100.8
105°	136.1	135.7	135.2	134.7	134.2	133.7	133.4	133.3	133.1	133.0	132.9
107.5°	167.9	167.6	167.5	167.4	167.3	167.3	167.2	167.0	166.8	166.7	166.5
110°	189.7	189.9	190.1	190.2	190.3	190.4	190.4	190.1	189.9	189.6	189.4



TEST NUMBER: P332545

CATALOG NUMBER: SA4XXDIP-C575D590U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	212.2	212.3	212.5	212.7	213.0	213.2	213.3	213.2	213.2	213.1	213.1
115°	247.4	247.5	247.8	248.0	248.3	248.5	248.7	248.7	248.7	248.7	248.7
117.5°	281.4	281.9	282.0	282.2	282.4	282.6	282.6	282.5	282.4	282.3	282.2
120°	304.5	305.1	305.5	305.9	306.3	306.7	306.6	306.1	305.6	305.1	304.6
122.5°	327.5	328.0	328.1	328.3	328.5	328.7	328.6	328.4	328.2	328.0	327.8
125°	361.3	361.6	361.7	361.9	362.0	362.1	362.2	362.2	362.2	362.2	362.2
127.5°	393.9	394.1	394.3	394.5	394.7	394.9	394.8	394.5	394.1	393.7	393.3
130°	416.7	416.9	416.9	416.9	416.9	416.9	416.7	416.4	416.0	415.6	415.2
132.5°	438.1	438.4	438.5	438.6	438.7	438.8	438.7	438.4	438.1	437.9	437.6
135°	470.3	470.5	470.5	470.5	470.5	470.5	470.2	469.4	468.6	467.9	467.1
137.5°	501.5	501.8	501.6	501.4	501.2	501.0	500.7	500.3	500.0	499.6	499.3
140°	521.7	521.9	521.9	521.9	521.9	521.9	521.7	521.5	521.2	521.0	520.7
142.5°	541.0	541.0	541.1	541.2	541.3	541.4	541.4	541.1	540.9	540.6	540.3
145°	570.2	570.3	570.2	570.1	570.0	569.8	569.5	569.0	568.5	568.0	567.5
147.5°	596.6	596.7	596.8	596.9	597.0	597.1	596.9	596.2	595.6	595.0	594.4
150°	613.1	613.1	613.1	613.1	613.1	613.1	612.9	612.4	611.9	611.4	610.8
152.5°	628.5	628.2	628.1	628.0	627.9	627.8	627.6	627.3	627.0	626.7	626.4
155°	650.1	649.6	649.8	649.9	650.0	650.1	650.2	650.2	650.2	650.2	650.2
157.5°	669.5	669.1	669.2	669.2	669.2	669.2	669.4	669.6	669.8	670.0	670.3
160°	681.4	681.0	681.1	681.3	681.4	681.5	681.6	681.8	681.9	682.0	682.1
162.5°	691.7	691.0	691.2	691.3	691.4	691.5	691.8	692.1	692.4	692.8	693.1
165°	705.7	705.0	705.2	705.5	705.7	706.0	706.3	706.7	707.0	707.4	707.8
167.5°	717.6	716.8	716.8	716.8	716.7	716.7	717.0	717.5	718.0	718.6	719.1
170°	724.0	723.2	723.1	722.9	722.8	722.7	722.9	723.6	724.2	724.9	725.5
172.5°	728.6	727.8	727.7	727.7	727.7	727.7	727.9	728.5	729.0	729.5	730.0
175°	733.8	732.9	733.0	733.2	733.3	733.4	733.8	734.4	735.1	735.7	736.3
177.5°	736.8	736.1	736.1	736.1	736.1	736.1	736.3	736.9	737.4	737.9	738.4
180°	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5



TEST NUMBER: P332545

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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	939.2	939.2	939.2	939.2	939.2	939.2	939.2	939.2	939.2	939.2	939.2
2.5°	945.5	948.6	952.6	959.5	962.0	965.1	969.4	969.1	970.4	975.0	985.0
5°	949.0	961.0	972.7	986.7	1001.5	1011.2	1024.5	1032.6	1040.8	1051.3	1069.2
7.5°	950.4	969.5	990.9	1015.5	1037.4	1062.6	1082.3	1100.8	1117.5	1139.7	1161.0
10°	948.2	973.9	1001.5	1032.6	1065.7	1093.7	1119.0	1147.8	1172.3	1199.1	1223.3
12.5°	944.1	975.1	1012.1	1046.9	1085.6	1127.0	1158.5	1187.6	1220.2	1251.1	1288.3
15°	935.0	977.4	1020.6	1066.5	1118.2	1166.1	1211.6	1249.3	1284.4	1330.7	1379.3
17.5°	923.3	969.0	1023.5	1079.1	1133.2	1187.9	1244.2	1300.9	1345.1	1402.6	1440.7
20°	912.4	965.3	1021.3	1087.5	1141.6	1209.7	1265.7	1320.5	1381.2	1438.4	1484.0
22.5°	897.1	955.0	1014.5	1080.3	1151.5	1219.6	1284.4	1343.9	1404.6	1466.8	1521.9
25°	877.8	930.3	1000.7	1075.4	1146.2	1220.2	1294.5	1369.2	1434.5	1500.3	1551.7
27.5°	844.8	911.1	976.7	1053.8	1132.5	1216.1	1295.6	1373.8	1442.2	1496.3	1528.2
30°	828.0	885.5	956.8	1034.2	1119.4	1209.3	1292.1	1368.8	1432.6	1475.8	1488.6
32.5°	803.1	862.5	932.2	1012.4	1102.6	1194.9	1281.2	1353.5	1406.8	1429.4	1413.9
35°	766.1	819.8	890.2	972.3	1066.1	1164.5	1249.7	1310.8	1338.1	1316.7	1263.3
37.5°	721.7	775.0	845.7	926.3	1023.4	1123.4	1200.5	1244.4	1235.4	1182.2	1102.7
40°	690.6	740.4	807.7	894.9	989.4	1089.8	1157.5	1181.3	1156.4	1080.1	995.7
42.5°	656.1	704.6	772.2	856.3	956.4	1049.0	1108.0	1110.0	1068.3	977.1	892.3
45°	603.5	649.8	713.6	801.1	893.7	980.9	1019.8	1000.7	923.7	835.7	750.5
47.5°	551.6	591.7	654.6	737.7	825.6	899.0	918.3	884.0	801.9	716.5	637.5
50°	513.6	554.1	613.2	692.6	777.4	840.8	850.1	804.6	724.1	638.1	576.2
52.5°	477.2	517.3	574.3	647.7	725.4	782.6	782.9	730.2	650.0	573.4	515.8
55°	423.7	459.9	511.3	577.0	646.3	691.0	680.1	625.6	556.0	489.5	439.3
57.5°	372.2	403.7	451.0	505.9	566.9	603.8	585.7	533.3	471.1	414.7	376.6
60°	338.9	368.8	409.3	461.1	512.4	541.2	524.1	476.6	419.4	373.9	340.8
62.5°	306.5	331.8	370.7	415.6	463.2	484.6	469.3	422.5	373.1	331.9	305.0
65°	260.7	281.3	312.4	351.0	385.6	403.9	391.0	347.4	309.7	280.1	258.7
67.5°	217.9	234.0	257.6	288.5	317.9	327.8	316.1	285.7	253.8	230.1	215.0
70°	188.3	203.5	223.3	247.1	272.7	283.3	271.6	247.5	221.4	199.6	184.8
72.5°	162.5	174.2	191.0	211.3	231.3	241.9	233.9	210.7	188.7	172.5	159.9
75°	123.7	133.8	145.5	159.9	175.5	182.5	175.5	159.5	144.3	132.3	123.3
77.5°	90.0	95.4	104.4	115.2	124.9	130.3	124.2	113.4	104.1	95.9	91.4
80°	68.5	72.4	78.6	87.2	93.8	98.8	94.9	86.0	78.6	73.1	71.2
82.5°	49.8	52.4	56.5	62.9	67.3	69.9	68.2	61.7	58.7	53.8	51.9
85°	24.5	26.1	28.8	30.7	34.6	35.0	35.4	32.7	30.0	28.8	27.2
87.5°	9.0	9.6	10.8	12.0	13.5	14.0	13.9	14.1	13.1	12.9	11.8
90°	3.1	4.5	5.9	7.3	8.5	9.5	10.5	11.5	12.5	13.3	14.1
92.5°	13.8	15.4	17.0	18.6	19.7	20.5	21.2	21.9	22.6	23.0	23.5
95°	35.4	36.5	37.6	38.8	39.8	40.7	41.6	42.5	43.3	43.7	44.1
97.5°	60.7	61.6	62.5	63.4	64.4	65.4	66.5	67.5	68.6	69.0	69.5
100°	80.4	80.9	81.4	81.9	82.7	83.8	85.0	86.1	87.3	87.5	87.8
102.5°	101.0	101.2	101.4	101.6	102.3	103.3	104.3	105.4	106.4	106.8	107.1
105°	133.0	133.1	133.3	133.4	133.7	134.2	134.7	135.2	135.7	136.1	136.5
107.5°	166.7	166.8	167.0	167.2	167.3	167.3	167.4	167.5	167.6	167.9	168.3
110°	189.6	189.9	190.1	190.4	190.4	190.3	190.2	190.1	189.9	189.7	189.4





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	213.1	213.2	213.2	213.3	213.2	213.0	212.7	212.5	212.3	212.2	212.2
115°	248.7	248.7	248.7	248.7	248.5	248.3	248.0	247.8	247.5	247.4	247.3
117.5°	282.3	282.4	282.5	282.6	282.6	282.4	282.2	282.0	281.9	281.4	281.0
120°	305.1	305.6	306.1	306.6	306.7	306.3	305.9	305.5	305.1	304.5	303.9
122.5°	328.0	328.2	328.4	328.6	328.7	328.5	328.3	328.1	328.0	327.5	327.1
125°	362.2	362.2	362.2	362.2	362.1	362.0	361.9	361.7	361.6	361.3	361.1
127.5°	393.7	394.1	394.5	394.8	394.9	394.7	394.5	394.3	394.1	393.9	393.6
130°	415.6	416.0	416.4	416.7	416.9	416.9	416.9	416.9	416.9	416.7	416.4
132.5°	437.9	438.1	438.4	438.7	438.8	438.7	438.6	438.5	438.4	438.1	437.9
135°	467.9	468.6	469.4	470.2	470.5	470.5	470.5	470.5	470.5	470.3	470.0
137.5°	499.6	500.0	500.3	500.7	501.0	501.2	501.4	501.6	501.8	501.5	501.1
140°	521.0	521.2	521.5	521.7	521.9	521.9	521.9	521.9	521.9	521.7	521.6
142.5°	540.6	540.9	541.1	541.4	541.4	541.3	541.2	541.1	541.0	541.0	541.0
145°	568.0	568.5	569.0	569.5	569.8	570.0	570.1	570.2	570.3	570.2	570.1
147.5°	595.0	595.6	596.2	596.9	597.1	597.0	596.9	596.8	596.7	596.6	596.5
150°	611.4	611.9	612.4	612.9	613.1	613.1	613.1	613.1	613.1	613.1	613.1
152.5°	626.7	627.0	627.3	627.6	627.8	627.9	628.0	628.1	628.2	628.5	628.8
155°	650.2	650.2	650.2	650.2	650.1	650.0	649.9	649.8	649.6	650.1	650.6
157.5°	670.0	669.8	669.6	669.4	669.2	669.2	669.2	669.2	669.1	669.5	669.9
160°	682.0	681.9	681.8	681.6	681.5	681.4	681.3	681.1	681.0	681.4	681.8
162.5°	692.8	692.4	692.1	691.8	691.5	691.4	691.3	691.2	691.0	691.7	692.4
165°	707.4	707.0	706.7	706.3	706.0	705.7	705.5	705.2	705.0	705.7	706.5
167.5°	718.6	718.0	717.5	717.0	716.7	716.7	716.8	716.8	716.8	717.6	718.3
170°	724.9	724.2	723.6	722.9	722.7	722.8	722.9	723.1	723.2	724.0	724.7
172.5°	729.5	729.0	728.5	727.9	727.7	727.7	727.7	727.7	727.8	728.6	729.5
175°	735.7	735.1	734.4	733.8	733.4	733.3	733.2	733.0	732.9	733.8	734.7
177.5°	737.9	737.4	736.9	736.3	736.1	736.1	736.1	736.1	736.1	736.8	737.5
180°	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	939.2	939.2	939.2	939.2	939.2	939.2	939.2
2.5°	990.0	990.6	993.4	995.6	996.2	999.3	999.6
5°	1077.0	1083.6	1096.4	1097.6	1099.5	1109.7	1101.9
7.5°	1178.9	1195.7	1206.9	1216.8	1220.4	1224.8	1223.9
10°	1244.3	1269.2	1281.6	1301.5	1302.3	1307.3	1304.2
12.5°	1310.0	1338.9	1361.6	1365.3	1381.9	1384.5	1388.9
15°	1403.0	1433.8	1465.3	1476.6	1499.5	1505.0	1513.5
17.5°	1490.5	1521.9	1544.0	1573.2	1582.6	1595.2	1586.7
20°	1538.4	1572.7	1600.7	1623.6	1633.4	1640.4	1639.6
22.5°	1567.4	1601.9	1624.6	1642.0	1651.1	1654.1	1653.9
25°	1585.5	1605.4	1612.4	1619.0	1608.9	1605.4	1606.9
27.5°	1535.1	1529.9	1511.7	1487.7	1462.8	1443.0	1432.3
30°	1465.7	1435.3	1407.7	1359.5	1334.5	1319.8	1306.5
32.5°	1367.3	1319.2	1266.1	1221.9	1193.5	1171.6	1168.3
35°	1198.8	1126.4	1061.4	1007.3	979.3	955.6	950.1
37.5°	1019.2	944.0	885.5	837.8	807.7	791.0	775.4
40°	899.9	835.4	777.8	737.3	714.4	702.3	692.6
42.5°	808.1	749.1	691.9	661.0	640.3	632.9	627.2
45°	681.3	626.4	586.7	563.4	551.3	538.9	533.0
47.5°	579.7	535.1	508.9	489.1	476.2	468.8	465.0
50°	522.1	485.6	462.2	447.1	435.4	429.5	426.4
52.5°	471.1	441.1	421.5	409.4	401.5	397.2	395.9
55°	405.8	382.9	370.4	359.9	354.1	350.2	348.6
57.5°	352.7	335.1	325.0	316.3	314.1	310.8	309.7
60°	317.9	304.3	295.7	289.9	287.9	284.0	284.8
62.5°	287.1	275.9	268.6	265.3	262.7	259.4	260.5
65°	242.8	234.6	230.7	227.6	224.5	222.6	224.1
67.5°	203.7	198.1	192.8	191.0	189.5	189.2	187.5
70°	178.2	173.5	168.9	167.7	167.7	166.1	165.7
72.5°	153.6	150.2	147.1	146.2	145.0	145.6	144.0
75°	118.7	115.9	114.8	113.6	113.2	113.2	112.1
77.5°	87.7	85.7	83.8	83.8	82.4	81.9	81.7
80°	66.5	65.8	64.2	64.2	63.4	63.8	63.0
82.5°	50.0	48.9	48.6	48.0	46.9	47.0	46.2
85°	26.8	25.7	25.3	24.1	23.3	24.1	23.3
87.5°	12.3	12.1	11.9	11.4	11.1	11.2	10.3
90°	14.8	15.6	16.1	16.4	16.6	16.9	17.1
92.5°	24.0	24.4	24.7	24.9	25.0	25.2	25.3
95°	44.5	44.9	45.1	45.1	45.1	45.1	45.1
97.5°	69.9	70.4	70.6	70.6	70.6	70.6	70.6
100°	88.0	88.3	88.4	88.4	88.4	88.4	88.4
102.5°	107.5	107.8	108.1	108.2	108.3	108.4	108.5
105°	136.9	137.3	137.6	138.0	138.4	138.8	139.2
107.5°	168.6	169.0	169.2	169.1	169.1	169.1	169.1
110°	189.2	188.9	189.0	189.4	189.7	190.1	190.5



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	212.1	212.1	212.1	212.2	212.2	212.3	212.4
115°	247.2	247.0	246.9	246.8	246.6	246.5	246.4
117.5°	280.6	280.1	279.8	279.5	279.3	279.0	278.8
120°	303.2	302.6	302.4	302.7	302.9	303.2	303.4
122.5°	326.7	326.2	325.8	325.3	324.9	324.4	324.0
125°	360.8	360.6	360.3	360.1	359.8	359.6	359.3
127.5°	393.4	393.1	392.9	392.7	392.5	392.3	392.1
130°	416.2	415.9	415.5	415.0	414.5	414.0	413.5
132.5°	437.6	437.4	437.1	436.9	436.7	436.5	436.3
135°	469.8	469.5	469.2	468.8	468.4	468.1	467.7
137.5°	500.8	500.5	500.3	500.4	500.5	500.6	500.7
140°	521.5	521.4	521.2	521.1	521.0	520.9	520.7
142.5°	541.0	540.9	540.9	540.9	540.9	540.8	540.8
145°	570.0	569.8	569.6	569.2	568.8	568.4	568.1
147.5°	596.4	596.3	596.2	596.1	595.9	595.8	595.7
150°	613.1	613.1	613.1	612.9	612.8	612.7	612.6
152.5°	629.1	629.4	629.4	629.1	628.7	628.4	628.1
155°	651.1	651.7	651.7	651.1	650.6	650.1	649.6
157.5°	670.3	670.7	670.6	670.2	669.8	669.3	668.9
160°	682.1	682.5	682.4	681.8	681.1	680.5	679.9
162.5°	693.1	693.8	693.8	693.2	692.5	691.9	691.3
165°	707.2	708.0	708.1	707.6	707.1	706.6	706.1
167.5°	719.1	719.9	719.8	719.1	718.3	717.5	716.7
170°	725.5	726.2	726.2	725.3	724.4	723.5	722.6
172.5°	730.4	731.2	731.2	730.3	729.4	728.5	727.7
175°	735.6	736.4	736.4	735.6	734.7	733.8	732.9
177.5°	738.2	738.9	738.9	738.1	737.3	736.4	735.6
180°	737.5	737.5	737.5	737.5	737.5	737.5	737.5

(END OF REPORT)