

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

Luminaire Tested: **SA4XXDIP-C575D590U835-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332546
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-C575D590U835-4F0-1E-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

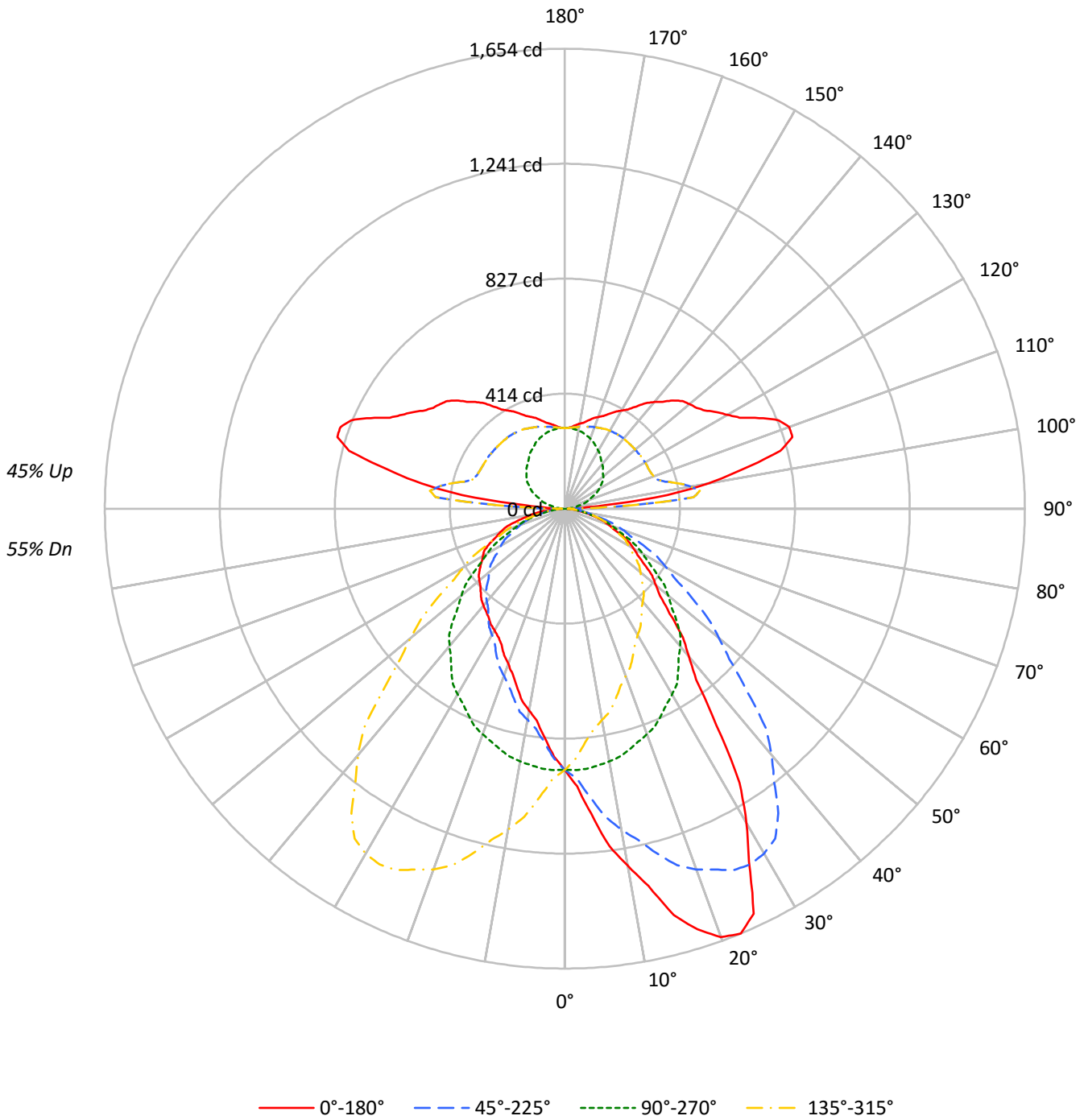
Lumens per Lamp: N/A
Luminaire Lumens: 4704.7 lumens
Efficiency: N/A
Efficacy: 143.4 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

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										
RC	80									70									50									30									10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	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°	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	1.9
10°-20°	282.0	6.0
20°-30°	447.2	9.5
30°-40°	497.7	10.6
40°-50°	453.1	9.6
50°-60°	370.2	7.9
60°-70°	264.3	5.6
70°-80°	145.5	3.1
80°-90°	41.3	0.9
90°-100°	209.7	4.5
100°-110°	436.5	9.3
110°-120°	391.0	8.3
120°-130°	328.9	7.0
130°-140°	274.2	5.8
140°-150°	209.5	4.5
150°-160°	147.2	3.1
160°-170°	86.6	1.8
170°-180°	28.2	0.6
0°-30°	820.8	17.4
0°-40°	1318.5	28.0
0°-60°	2141.8	45.5
0°-90°	2593.0	55.1
90°-120°	1037.2	22.0
90°-150°	1849.7	39.3
90°-180°	2112.0	44.9
0°-180°	4704.7	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°	12	1	12	1	12	11
95°	139	19	139	19	139	216
105°	803	67	803	67	803	794
115°	771	118	771	118	771	765
125°	615	164	615	164	615	559
135°	550	194	550	194	550	424
145°	449	224	449	224	449	285
155°	376	255	376	255	376	175
165°	328	278	328	278	328	94
175°	296	290	296	290	296	29
180°	290	290	290	290	290	



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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°	9.2	10.2	10.3	10.5	11.0	11.3	11.5	11.1	12.2	12.6	13.7
90°	12.0	12.0	12.5	12.0	11.4	11.4	10.8	10.3	9.7	10.3	9.1
92.5°	43.9	43.9	45.9	48.9	55.7	67.1	84.3	112.0	150.7	180.9	158.4
95°	139.2	146.6	156.9	174.6	202.5	257.8	334.3	422.7	478.0	464.9	350.8
97.5°	372.0	383.9	401.0	435.4	476.3	535.9	591.7	624.5	600.6	489.7	328.4
100°	523.1	527.7	544.8	579.6	629.2	671.4	699.4	688.0	604.7	458.6	297.8
102.5°	654.5	658.2	676.2	701.4	731.9	749.5	741.4	684.8	570.4	419.9	277.2
105°	802.6	806.0	814.0	818.6	817.5	794.1	737.6	638.9	508.3	374.2	259.6
107.5°	857.6	856.1	850.4	837.4	809.2	758.4	678.8	573.8	458.1	348.7	256.4
110°	858.5	853.4	843.1	819.2	778.7	715.9	633.2	534.5	433.0	340.0	257.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	831.6	823.3	808.9	779.9	733.9	671.2	593.0	505.8	418.8	335.9	260.0
115°	770.7	766.1	747.9	713.6	668.6	613.8	547.1	476.9	405.6	333.7	265.3
117.5°	709.0	705.4	686.9	658.2	619.7	573.3	520.8	462.7	399.7	333.1	270.8
120°	674.3	668.0	653.2	628.1	595.5	555.0	509.4	456.4	396.5	333.1	275.0
122.5°	646.9	640.6	628.1	606.6	579.1	543.6	502.1	450.9	392.8	332.7	279.1
125°	614.9	611.5	600.7	584.1	561.3	529.9	490.6	441.5	386.8	332.0	285.2
127.5°	596.2	592.8	583.7	569.0	546.0	516.3	477.0	430.1	378.7	330.7	290.1
130°	585.3	581.9	572.7	558.5	535.1	504.8	466.1	421.0	373.6	330.3	293.8
132.5°	573.0	569.5	560.9	544.8	521.8	491.6	453.7	411.4	369.1	329.8	297.0
135°	549.9	546.5	537.4	521.4	498.6	470.0	435.3	398.2	362.2	329.1	301.8
137.5°	521.4	517.3	509.8	494.0	472.7	446.9	417.6	386.2	356.3	329.0	304.6
140°	500.9	496.3	488.3	475.8	455.8	431.8	406.2	379.3	353.1	328.6	306.9
142.5°	478.9	475.8	468.7	457.0	439.4	418.6	396.6	373.0	350.4	328.6	308.7
145°	448.9	446.1	440.4	430.7	416.4	400.5	383.3	363.9	345.7	327.4	309.8
147.5°	422.4	421.3	417.0	408.7	398.2	385.6	371.9	356.5	341.5	325.4	310.3
150°	407.3	406.7	403.3	395.9	386.8	376.5	365.1	352.0	338.3	324.0	310.3
152.5°	393.6	393.0	391.0	384.9	377.2	368.7	358.2	346.9	334.6	321.7	309.4
155°	375.9	375.9	374.2	369.7	363.9	357.1	348.5	339.4	329.1	318.3	308.0
157.5°	360.4	360.4	359.4	356.0	351.6	346.1	339.0	331.3	323.6	314.8	306.6
160°	350.8	350.8	350.3	346.8	343.4	338.8	332.6	326.3	319.5	312.0	305.2
162.5°	341.7	342.2	341.6	338.2	335.7	331.5	326.6	321.3	315.8	309.3	303.8
165°	328.0	328.6	329.1	326.9	324.6	321.7	317.7	314.3	309.8	305.2	301.2
167.5°	317.2	317.6	317.7	316.3	315.1	313.4	310.2	307.6	304.3	301.1	298.5
170°	310.3	310.3	310.9	310.3	309.2	307.5	305.2	303.5	300.6	298.3	296.6
172.5°	303.5	304.4	305.0	304.4	303.7	302.5	301.1	299.8	297.4	295.6	294.8
175°	295.5	296.6	297.8	296.6	296.6	296.6	295.5	294.9	293.8	292.6	292.6
177.5°	290.8	291.7	292.6	292.2	292.6	292.2	292.2	291.7	291.3	290.8	290.8
180°	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4



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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°	13.4	13.7	12.7	11.5	10.4	9.4	8.7	8.2	8.7	9.4	9.8
90°	8.0	8.0	4.6	4.6	4.0	3.4	1.7	0.6	1.7	3.4	4.0
92.5°	115.2	71.0	42.0	30.1	21.8	14.8	9.5	6.5	9.5	14.8	21.8
95°	214.5	120.9	71.3	47.3	33.7	26.2	20.5	18.8	20.5	26.2	33.7
97.5°	192.8	115.6	77.4	57.3	45.5	38.7	33.8	33.8	33.8	38.7	45.5
100°	181.4	116.9	83.3	65.0	54.2	47.3	43.4	43.4	43.4	47.3	54.2
102.5°	178.2	121.5	91.0	73.7	63.3	56.9	53.4	52.5	53.4	56.9	63.3
105°	179.7	132.3	105.0	88.4	78.2	71.3	68.5	66.7	68.5	71.3	78.2
107.5°	188.1	145.0	119.9	103.6	93.8	86.5	83.6	82.5	83.6	86.5	93.8
110°	194.5	154.6	129.5	114.1	103.8	97.0	94.1	93.0	94.1	97.0	103.8



TEST NUMBER: P332546

CATALOG NUMBER: SA4XXDIP-C575D590U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	201.4	163.7	139.5	124.1	113.9	107.5	104.2	103.0	104.2	107.5	113.9
115°	212.2	178.0	155.2	139.8	128.9	123.2	119.2	117.5	119.2	123.2	128.9
117.5°	223.3	191.8	170.1	154.1	144.0	137.7	134.2	132.6	134.2	137.7	144.0
120°	231.0	201.4	179.7	163.7	154.0	147.7	143.8	142.6	143.8	147.7	154.0
122.5°	238.3	210.5	188.8	173.3	162.7	156.9	152.9	151.7	152.9	156.9	162.7
125°	249.3	223.0	202.5	186.5	175.7	169.4	166.0	163.7	166.0	169.4	175.7
127.5°	258.8	234.7	214.8	198.7	187.4	180.3	176.2	174.3	176.2	180.3	187.4
130°	264.7	242.4	223.0	206.5	195.7	187.1	182.5	180.3	182.5	187.1	195.7
132.5°	270.6	248.8	229.4	213.8	202.1	194.0	188.0	186.2	188.0	194.0	202.1
135°	278.4	257.8	239.0	224.2	212.2	202.5	196.8	194.5	196.8	202.5	212.2
137.5°	283.9	264.7	247.1	233.0	220.5	211.3	205.0	202.9	205.0	211.3	220.5
140°	287.5	269.3	252.1	238.4	226.5	216.8	210.5	208.8	210.5	216.8	226.5
142.5°	290.2	273.4	256.7	243.5	231.9	222.7	216.9	215.2	216.9	222.7	231.9
145°	293.2	277.8	263.0	250.4	239.6	231.6	225.9	224.2	225.9	231.6	239.6
147.5°	295.8	282.4	268.5	257.2	248.1	239.9	234.9	234.3	234.9	239.9	248.1
150°	297.2	284.7	272.1	261.3	252.7	245.9	241.3	240.7	241.3	245.9	252.7
152.5°	298.1	286.5	275.3	265.4	257.7	251.3	246.8	246.7	246.8	251.3	257.7
155°	298.9	289.2	279.5	271.0	264.7	259.0	255.6	255.0	255.6	259.0	264.7
157.5°	298.9	291.2	282.9	276.2	270.7	266.3	263.1	263.1	263.1	266.3	270.7
160°	298.9	292.1	285.2	278.9	274.4	270.4	268.1	268.1	268.1	270.4	274.4
162.5°	298.9	293.0	286.6	281.7	277.6	274.0	272.2	272.7	272.2	274.0	277.6
165°	297.8	293.2	288.1	284.7	281.8	278.9	277.8	277.8	277.8	278.9	281.8
167.5°	296.4	293.1	289.3	286.7	285.1	282.9	282.4	282.9	282.4	282.9	285.1
170°	295.5	292.6	289.8	288.1	286.9	285.2	284.7	285.2	284.7	285.2	286.9
172.5°	294.6	292.2	290.2	289.0	288.3	287.0	286.9	287.5	286.9	287.0	288.3
175°	293.2	291.5	290.4	290.4	289.8	289.2	289.2	289.8	289.2	289.2	289.8
177.5°	291.7	290.8	290.4	290.4	290.4	289.9	290.4	290.8	290.4	289.9	290.4
180°	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4



TEST NUMBER: P332546

CATALOG NUMBER: SA4XXDIP-C575D590U835-4F0-1E-UDD-A4

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°	10.9	10.9	12.8	13.4	14.6	16.4	16.9	20.4	21.8	23.4	26.2
90°	4.6	4.6	8.0	8.0	9.1	10.3	9.7	10.3	10.8	11.4	11.4
92.5°	30.1	42.0	71.0	115.2	158.4	180.9	150.7	112.0	84.3	67.1	55.7
95°	47.3	71.3	120.9	214.5	350.8	464.9	478.0	422.7	334.3	257.8	202.5
97.5°	57.3	77.4	115.6	192.8	328.4	489.7	600.6	624.5	591.7	535.9	476.3
100°	65.0	83.3	116.9	181.4	297.8	458.6	604.7	688.0	699.4	671.4	629.2
102.5°	73.7	91.0	121.5	178.2	277.2	419.9	570.4	684.8	741.4	749.5	731.9
105°	88.4	105.0	132.3	179.7	259.6	374.2	508.3	638.9	737.6	794.1	817.5
107.5°	103.6	119.9	145.0	188.1	256.4	348.7	458.1	573.8	678.8	758.4	809.2
110°	114.1	129.5	154.6	194.5	257.3	340.0	433.0	534.5	633.2	715.9	778.7



TEST NUMBER: P332546

CATALOG NUMBER: SA4XXDIP-C575D590U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	124.1	139.5	163.7	201.4	260.0	335.9	418.8	505.8	593.0	671.2	733.9
115°	139.8	155.2	178.0	212.2	265.3	333.7	405.6	476.9	547.1	613.8	668.6
117.5°	154.1	170.1	191.8	223.3	270.8	333.1	399.7	462.7	520.8	573.3	619.7
120°	163.7	179.7	201.4	231.0	275.0	333.1	396.5	456.4	509.4	555.0	595.5
122.5°	173.3	188.8	210.5	238.3	279.1	332.7	392.8	450.9	502.1	543.6	579.1
125°	186.5	202.5	223.0	249.3	285.2	332.0	386.8	441.5	490.6	529.9	561.3
127.5°	198.7	214.8	234.7	258.8	290.1	330.7	378.7	430.1	477.0	516.3	546.0
130°	206.5	223.0	242.4	264.7	293.8	330.3	373.6	421.0	466.1	504.8	535.1
132.5°	213.8	229.4	248.8	270.6	297.0	329.8	369.1	411.4	453.7	491.6	521.8
135°	224.2	239.0	257.8	278.4	301.8	329.1	362.2	398.2	435.3	470.0	498.6
137.5°	233.0	247.1	264.7	283.9	304.6	329.0	356.3	386.2	417.6	446.9	472.7
140°	238.4	252.1	269.3	287.5	306.9	328.6	353.1	379.3	406.2	431.8	455.8
142.5°	243.5	256.7	273.4	290.2	308.7	328.6	350.4	373.0	396.6	418.6	439.4
145°	250.4	263.0	277.8	293.2	309.8	327.4	345.7	363.9	383.3	400.5	416.4
147.5°	257.2	268.5	282.4	295.8	310.3	325.4	341.5	356.5	371.9	385.6	398.2
150°	261.3	272.1	284.7	297.2	310.3	324.0	338.3	352.0	365.1	376.5	386.8
152.5°	265.4	275.3	286.5	298.1	309.4	321.7	334.6	346.9	358.2	368.7	377.2
155°	271.0	279.5	289.2	298.9	308.0	318.3	329.1	339.4	348.5	357.1	363.9
157.5°	276.2	282.9	291.2	298.9	306.6	314.8	323.6	331.3	339.0	346.1	351.6
160°	278.9	285.2	292.1	298.9	305.2	312.0	319.5	326.3	332.6	338.8	343.4
162.5°	281.7	286.6	293.0	298.9	303.8	309.3	315.8	321.3	326.6	331.5	335.7
165°	284.7	288.1	293.2	297.8	301.2	305.2	309.8	314.3	317.7	321.7	324.6
167.5°	286.7	289.3	293.1	296.4	298.5	301.1	304.3	307.6	310.2	313.4	315.1
170°	288.1	289.8	292.6	295.5	296.6	298.3	300.6	303.5	305.2	307.5	309.2
172.5°	289.0	290.2	292.2	294.6	294.8	295.6	297.4	299.8	301.1	302.5	303.7
175°	290.4	290.4	291.5	293.2	292.6	292.6	293.8	294.9	295.5	296.6	296.6
177.5°	290.4	290.4	290.8	291.7	290.8	290.8	291.3	291.7	292.2	292.2	292.6
180°	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4



TEST NUMBER: P332546

CATALOG NUMBER: SA4XXDIP-C575D590U835-4F0-1E-UDD-A4

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°	27.3	27.7	28.5	29.2	28.5	27.7	27.3	26.2	23.4	21.8	20.4
90°	12.0	12.5	12.0	12.0	12.0	12.5	12.0	11.4	11.4	10.8	10.3
92.5°	48.9	45.9	43.9	43.9	43.9	45.9	48.9	55.7	67.1	84.3	112.0
95°	174.6	156.9	146.6	139.2	146.6	156.9	174.6	202.5	257.8	334.3	422.7
97.5°	435.4	401.0	383.9	372.0	383.9	401.0	435.4	476.3	535.9	591.7	624.5
100°	579.6	544.8	527.7	523.1	527.7	544.8	579.6	629.2	671.4	699.4	688.0
102.5°	701.4	676.2	658.2	654.5	658.2	676.2	701.4	731.9	749.5	741.4	684.8
105°	818.6	814.0	806.0	802.6	806.0	814.0	818.6	817.5	794.1	737.6	638.9
107.5°	837.4	850.4	856.1	857.6	856.1	850.4	837.4	809.2	758.4	678.8	573.8
110°	819.2	843.1	853.4	858.5	853.4	843.1	819.2	778.7	715.9	633.2	534.5



TEST NUMBER: P332546

CATALOG NUMBER: SA4XXDIP-C575D590U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	779.9	808.9	823.3	831.6	823.3	808.9	779.9	733.9	671.2	593.0	505.8
115°	713.6	747.9	766.1	770.7	766.1	747.9	713.6	668.6	613.8	547.1	476.9
117.5°	658.2	686.9	705.4	709.0	705.4	686.9	658.2	619.7	573.3	520.8	462.7
120°	628.1	653.2	668.0	674.3	668.0	653.2	628.1	595.5	555.0	509.4	456.4
122.5°	606.6	628.1	640.6	646.9	640.6	628.1	606.6	579.1	543.6	502.1	450.9
125°	584.1	600.7	611.5	614.9	611.5	600.7	584.1	561.3	529.9	490.6	441.5
127.5°	569.0	583.7	592.8	596.2	592.8	583.7	569.0	546.0	516.3	477.0	430.1
130°	558.5	572.7	581.9	585.3	581.9	572.7	558.5	535.1	504.8	466.1	421.0
132.5°	544.8	560.9	569.5	573.0	569.5	560.9	544.8	521.8	491.6	453.7	411.4
135°	521.4	537.4	546.5	549.9	546.5	537.4	521.4	498.6	470.0	435.3	398.2
137.5°	494.0	509.8	517.3	521.4	517.3	509.8	494.0	472.7	446.9	417.6	386.2
140°	475.8	488.3	496.3	500.9	496.3	488.3	475.8	455.8	431.8	406.2	379.3
142.5°	457.0	468.7	475.8	478.9	475.8	468.7	457.0	439.4	418.6	396.6	373.0
145°	430.7	440.4	446.1	448.9	446.1	440.4	430.7	416.4	400.5	383.3	363.9
147.5°	408.7	417.0	421.3	422.4	421.3	417.0	408.7	398.2	385.6	371.9	356.5
150°	395.9	403.3	406.7	407.3	406.7	403.3	395.9	386.8	376.5	365.1	352.0
152.5°	384.9	391.0	393.0	393.6	393.0	391.0	384.9	377.2	368.7	358.2	346.9
155°	369.7	374.2	375.9	375.9	375.9	374.2	369.7	363.9	357.1	348.5	339.4
157.5°	356.0	359.4	360.4	360.4	360.4	359.4	356.0	351.6	346.1	339.0	331.3
160°	346.8	350.3	350.8	350.8	350.8	350.3	346.8	343.4	338.8	332.6	326.3
162.5°	338.2	341.6	342.2	341.7	342.2	341.6	338.2	335.7	331.5	326.6	321.3
165°	326.9	329.1	328.6	328.0	328.6	329.1	326.9	324.6	321.7	317.7	314.3
167.5°	316.3	317.7	317.6	317.2	317.6	317.7	316.3	315.1	313.4	310.2	307.6
170°	310.3	310.9	310.3	310.3	310.3	310.9	310.3	309.2	307.5	305.2	303.5
172.5°	304.4	305.0	304.4	303.5	304.4	305.0	304.4	303.7	302.5	301.1	299.8
175°	296.6	297.8	296.6	295.5	296.6	297.8	296.6	296.6	296.6	295.5	294.9
177.5°	292.2	292.6	291.7	290.8	291.7	292.6	292.2	292.6	292.2	292.2	291.7
180°	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4



TEST NUMBER: P332546

CATALOG NUMBER: SA4XXDIP-C575D590U835-4F0-1E-UDD-A4

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°	16.9	16.4	14.6	13.4	12.8	10.9	10.9	9.8	9.4	8.7	8.2
90°	9.7	10.3	9.1	8.0	8.0	4.6	4.6	4.0	3.4	1.7	0.6
92.5°	150.7	180.9	158.4	115.2	71.0	42.0	30.1	21.8	14.8	9.5	6.5
95°	478.0	464.9	350.8	214.5	120.9	71.3	47.3	33.7	26.2	20.5	18.8
97.5°	600.6	489.7	328.4	192.8	115.6	77.4	57.3	45.5	38.7	33.8	33.8
100°	604.7	458.6	297.8	181.4	116.9	83.3	65.0	54.2	47.3	43.4	43.4
102.5°	570.4	419.9	277.2	178.2	121.5	91.0	73.7	63.3	56.9	53.4	52.5
105°	508.3	374.2	259.6	179.7	132.3	105.0	88.4	78.2	71.3	68.5	66.7
107.5°	458.1	348.7	256.4	188.1	145.0	119.9	103.6	93.8	86.5	83.6	82.5
110°	433.0	340.0	257.3	194.5	154.6	129.5	114.1	103.8	97.0	94.1	93.0



TEST NUMBER: P332546

CATALOG NUMBER: SA4XXDIP-C575D590U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	418.8	335.9	260.0	201.4	163.7	139.5	124.1	113.9	107.5	104.2	103.0
115°	405.6	333.7	265.3	212.2	178.0	155.2	139.8	128.9	123.2	119.2	117.5
117.5°	399.7	333.1	270.8	223.3	191.8	170.1	154.1	144.0	137.7	134.2	132.6
120°	396.5	333.1	275.0	231.0	201.4	179.7	163.7	154.0	147.7	143.8	142.6
122.5°	392.8	332.7	279.1	238.3	210.5	188.8	173.3	162.7	156.9	152.9	151.7
125°	386.8	332.0	285.2	249.3	223.0	202.5	186.5	175.7	169.4	166.0	163.7
127.5°	378.7	330.7	290.1	258.8	234.7	214.8	198.7	187.4	180.3	176.2	174.3
130°	373.6	330.3	293.8	264.7	242.4	223.0	206.5	195.7	187.1	182.5	180.3
132.5°	369.1	329.8	297.0	270.6	248.8	229.4	213.8	202.1	194.0	188.0	186.2
135°	362.2	329.1	301.8	278.4	257.8	239.0	224.2	212.2	202.5	196.8	194.5
137.5°	356.3	329.0	304.6	283.9	264.7	247.1	233.0	220.5	211.3	205.0	202.9
140°	353.1	328.6	306.9	287.5	269.3	252.1	238.4	226.5	216.8	210.5	208.8
142.5°	350.4	328.6	308.7	290.2	273.4	256.7	243.5	231.9	222.7	216.9	215.2
145°	345.7	327.4	309.8	293.2	277.8	263.0	250.4	239.6	231.6	225.9	224.2
147.5°	341.5	325.4	310.3	295.8	282.4	268.5	257.2	248.1	239.9	234.9	234.3
150°	338.3	324.0	310.3	297.2	284.7	272.1	261.3	252.7	245.9	241.3	240.7
152.5°	334.6	321.7	309.4	298.1	286.5	275.3	265.4	257.7	251.3	246.8	246.7
155°	329.1	318.3	308.0	298.9	289.2	279.5	271.0	264.7	259.0	255.6	255.0
157.5°	323.6	314.8	306.6	298.9	291.2	282.9	276.2	270.7	266.3	263.1	263.1
160°	319.5	312.0	305.2	298.9	292.1	285.2	278.9	274.4	270.4	268.1	268.1
162.5°	315.8	309.3	303.8	298.9	293.0	286.6	281.7	277.6	274.0	272.2	272.7
165°	309.8	305.2	301.2	297.8	293.2	288.1	284.7	281.8	278.9	277.8	277.8
167.5°	304.3	301.1	298.5	296.4	293.1	289.3	286.7	285.1	282.9	282.4	282.9
170°	300.6	298.3	296.6	295.5	292.6	289.8	288.1	286.9	285.2	284.7	285.2
172.5°	297.4	295.6	294.8	294.6	292.2	290.2	289.0	288.3	287.0	286.9	287.5
175°	293.8	292.6	292.6	293.2	291.5	290.4	290.4	289.8	289.2	289.2	289.8
177.5°	291.3	290.8	290.8	291.7	290.8	290.4	290.4	290.4	289.9	290.4	290.8
180°	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4



TEST NUMBER: P332546

CATALOG NUMBER: SA4XXDIP-C575D590U835-4F0-1E-UDD-A4

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°	8.7	9.4	10.4	11.5	12.7	13.7	13.4	13.7	12.6	12.2	11.1
90°	1.7	3.4	4.0	4.6	4.6	8.0	8.0	9.1	10.3	9.7	10.3
92.5°	9.5	14.8	21.8	30.1	42.0	71.0	115.2	158.4	180.9	150.7	112.0
95°	20.5	26.2	33.7	47.3	71.3	120.9	214.5	350.8	464.9	478.0	422.7
97.5°	33.8	38.7	45.5	57.3	77.4	115.6	192.8	328.4	489.7	600.6	624.5
100°	43.4	47.3	54.2	65.0	83.3	116.9	181.4	297.8	458.6	604.7	688.0
102.5°	53.4	56.9	63.3	73.7	91.0	121.5	178.2	277.2	419.9	570.4	684.8
105°	68.5	71.3	78.2	88.4	105.0	132.3	179.7	259.6	374.2	508.3	638.9
107.5°	83.6	86.5	93.8	103.6	119.9	145.0	188.1	256.4	348.7	458.1	573.8
110°	94.1	97.0	103.8	114.1	129.5	154.6	194.5	257.3	340.0	433.0	534.5



TEST NUMBER: P332546

CATALOG NUMBER: SA4XXDIP-C575D590U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	104.2	107.5	113.9	124.1	139.5	163.7	201.4	260.0	335.9	418.8	505.8
115°	119.2	123.2	128.9	139.8	155.2	178.0	212.2	265.3	333.7	405.6	476.9
117.5°	134.2	137.7	144.0	154.1	170.1	191.8	223.3	270.8	333.1	399.7	462.7
120°	143.8	147.7	154.0	163.7	179.7	201.4	231.0	275.0	333.1	396.5	456.4
122.5°	152.9	156.9	162.7	173.3	188.8	210.5	238.3	279.1	332.7	392.8	450.9
125°	166.0	169.4	175.7	186.5	202.5	223.0	249.3	285.2	332.0	386.8	441.5
127.5°	176.2	180.3	187.4	198.7	214.8	234.7	258.8	290.1	330.7	378.7	430.1
130°	182.5	187.1	195.7	206.5	223.0	242.4	264.7	293.8	330.3	373.6	421.0
132.5°	188.0	194.0	202.1	213.8	229.4	248.8	270.6	297.0	329.8	369.1	411.4
135°	196.8	202.5	212.2	224.2	239.0	257.8	278.4	301.8	329.1	362.2	398.2
137.5°	205.0	211.3	220.5	233.0	247.1	264.7	283.9	304.6	329.0	356.3	386.2
140°	210.5	216.8	226.5	238.4	252.1	269.3	287.5	306.9	328.6	353.1	379.3
142.5°	216.9	222.7	231.9	243.5	256.7	273.4	290.2	308.7	328.6	350.4	373.0
145°	225.9	231.6	239.6	250.4	263.0	277.8	293.2	309.8	327.4	345.7	363.9
147.5°	234.9	239.9	248.1	257.2	268.5	282.4	295.8	310.3	325.4	341.5	356.5
150°	241.3	245.9	252.7	261.3	272.1	284.7	297.2	310.3	324.0	338.3	352.0
152.5°	246.8	251.3	257.7	265.4	275.3	286.5	298.1	309.4	321.7	334.6	346.9
155°	255.6	259.0	264.7	271.0	279.5	289.2	298.9	308.0	318.3	329.1	339.4
157.5°	263.1	266.3	270.7	276.2	282.9	291.2	298.9	306.6	314.8	323.6	331.3
160°	268.1	270.4	274.4	278.9	285.2	292.1	298.9	305.2	312.0	319.5	326.3
162.5°	272.2	274.0	277.6	281.7	286.6	293.0	298.9	303.8	309.3	315.8	321.3
165°	277.8	278.9	281.8	284.7	288.1	293.2	297.8	301.2	305.2	309.8	314.3
167.5°	282.4	282.9	285.1	286.7	289.3	293.1	296.4	298.5	301.1	304.3	307.6
170°	284.7	285.2	286.9	288.1	289.8	292.6	295.5	296.6	298.3	300.6	303.5
172.5°	286.9	287.0	288.3	289.0	290.2	292.2	294.6	294.8	295.6	297.4	299.8
175°	289.2	289.2	289.8	290.4	290.4	291.5	293.2	292.6	292.6	293.8	294.9
177.5°	290.4	289.9	290.4	290.4	290.4	290.8	291.7	290.8	290.8	291.3	291.7
180°	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4



TEST NUMBER: P332546

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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°	11.5	11.3	11.0	10.5	10.3	10.2	9.2
90°	10.8	11.4	11.4	12.0	12.5	12.0	12.0
92.5°	84.3	67.1	55.7	48.9	45.9	43.9	43.9
95°	334.3	257.8	202.5	174.6	156.9	146.6	139.2
97.5°	591.7	535.9	476.3	435.4	401.0	383.9	372.0
100°	699.4	671.4	629.2	579.6	544.8	527.7	523.1
102.5°	741.4	749.5	731.9	701.4	676.2	658.2	654.5
105°	737.6	794.1	817.5	818.6	814.0	806.0	802.6
107.5°	678.8	758.4	809.2	837.4	850.4	856.1	857.6
110°	633.2	715.9	778.7	819.2	843.1	853.4	858.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	593.0	671.2	733.9	779.9	808.9	823.3	831.6
115°	547.1	613.8	668.6	713.6	747.9	766.1	770.7
117.5°	520.8	573.3	619.7	658.2	686.9	705.4	709.0
120°	509.4	555.0	595.5	628.1	653.2	668.0	674.3
122.5°	502.1	543.6	579.1	606.6	628.1	640.6	646.9
125°	490.6	529.9	561.3	584.1	600.7	611.5	614.9
127.5°	477.0	516.3	546.0	569.0	583.7	592.8	596.2
130°	466.1	504.8	535.1	558.5	572.7	581.9	585.3
132.5°	453.7	491.6	521.8	544.8	560.9	569.5	573.0
135°	435.3	470.0	498.6	521.4	537.4	546.5	549.9
137.5°	417.6	446.9	472.7	494.0	509.8	517.3	521.4
140°	406.2	431.8	455.8	475.8	488.3	496.3	500.9
142.5°	396.6	418.6	439.4	457.0	468.7	475.8	478.9
145°	383.3	400.5	416.4	430.7	440.4	446.1	448.9
147.5°	371.9	385.6	398.2	408.7	417.0	421.3	422.4
150°	365.1	376.5	386.8	395.9	403.3	406.7	407.3
152.5°	358.2	368.7	377.2	384.9	391.0	393.0	393.6
155°	348.5	357.1	363.9	369.7	374.2	375.9	375.9
157.5°	339.0	346.1	351.6	356.0	359.4	360.4	360.4
160°	332.6	338.8	343.4	346.8	350.3	350.8	350.8
162.5°	326.6	331.5	335.7	338.2	341.6	342.2	341.7
165°	317.7	321.7	324.6	326.9	329.1	328.6	328.0
167.5°	310.2	313.4	315.1	316.3	317.7	317.6	317.2
170°	305.2	307.5	309.2	310.3	310.9	310.3	310.3
172.5°	301.1	302.5	303.7	304.4	305.0	304.4	303.5
175°	295.5	296.6	296.6	296.6	297.8	296.6	295.5
177.5°	292.2	292.2	292.6	292.2	292.6	291.7	290.8
180°	290.4	290.4	290.4	290.4	290.4	290.4	290.4

(END OF REPORT)