

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: P332554-830

Luminaire Tested: **SA4XXDIP-C575D810U830-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332554-830
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-C575D810U830-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 575 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 810 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

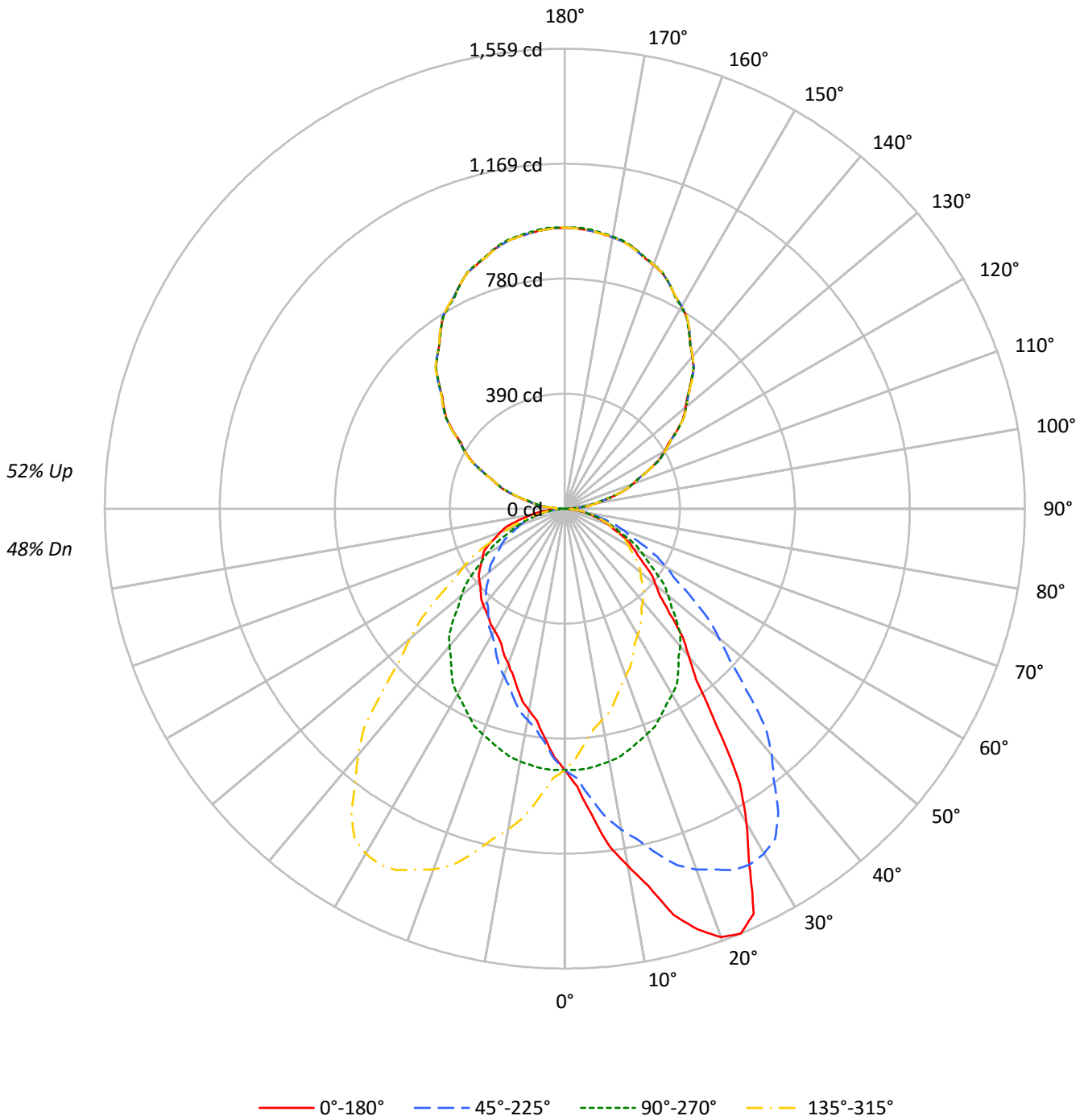
Lumens per Lamp: N/A
Luminaire Lumens: 5088.7 lumens
Efficiency: N/A
Efficacy: 132.5 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 38.4
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	50	30	10	0	
RCR																						
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48	48	48	48	
1	98	93	89	86	90	86	83	80	72	70	68	60	58	57	48	47	46	41	41	41	41	
2	89	82	76	71	82	75	70	66	64	60	57	53	50	48	43	41	39	35	35	35	35	
3	81	72	65	59	75	67	60	55	56	52	48	47	43	41	38	36	34	30	30	30	30	
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	31	29	26	26	26	26	
5	68	57	49	43	63	53	46	40	45	40	35	38	34	30	31	28	26	22	22	22	22	
6	63	51	43	37	58	48	40	35	41	35	31	34	30	27	28	25	23	20	20	20	20	
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	23	20	18	18	18	18	
8	54	42	34	29	50	39	32	27	34	28	24	28	24	21	24	20	18	16	16	16	16	
9	50	38	31	26	46	36	29	25	31	26	22	26	22	19	22	19	16	14	14	14	14	
10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	20	17	15	13	13	13	13	

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7146	7146	7146	7146
5°	8417	7165	6324	7165
10°	10077	7133	5694	7133
15°	11922	7061	5229	7061
20°	13277	6988	4814	6988
25°	13491	6879	4528	6879
30°	11479	6776	4437	6776
35°	8825	6606	4438	6606
40°	6880	6407	4521	6407
45°	5736	6109	4598	6109
50°	5048	5743	4752	5743
55°	4625	5306	4944	5306
60°	4334	4913	5176	4913
65°	4034	4476	5366	4476
70°	3687	4043	5488	4043
75°	3297	3556	5421	3556
80°	2762	2915	5249	2915
85°	2038	2103	5030	2103



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.2	1.7
10°-20°	265.8	5.2
20°-30°	421.5	8.3
30°-40°	469.1	9.2
40°-50°	427.0	8.4
50°-60°	349.0	6.9
60°-70°	249.1	4.9
70°-80°	137.2	2.7
80°-90°	40.3	0.8
90°-100°	62.8	1.2
100°-110°	186.2	3.7
110°-120°	316.0	6.2
120°-130°	416.6	8.2
130°-140°	467.9	9.2
140°-150°	459.8	9.0
150°-160°	386.7	7.6
160°-170°	257.3	5.1
170°-180°	90.1	1.8
0°-30°	773.6	15.2
0°-40°	1242.8	24.4
0°-60°	2018.8	39.7
0°-90°	2445.3	48.1
90°-120°	565.0	11.1
90°-150°	1909.3	37.5
90°-180°	2643.0	51.9
0°-180°	5088.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	885	885	885	885	885	
5°	1039	884	780	884	1039	106
15°	1426	845	626	845	1426	403
25°	1515	772	508	772	1515	668
35°	896	670	450	670	896	568
45°	502	535	403	535	502	396
55°	329	377	351	377	329	297
65°	211	234	281	234	211	209
75°	106	114	174	114	106	112
85°	22	23	54	23	22	27
90°	22	2	22	2	22	12
95°	58	44	58	44	58	61
105°	180	172	180	172	180	189
115°	318	321	318	321	318	315
125°	464	468	464	468	464	414
135°	604	604	604	604	604	467
145°	734	733	734	733	734	459
155°	839	840	839	840	839	386
165°	912	914	912	914	912	257
175°	947	951	947	951	947	90
180°	953	953	953	953	953	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2
2.5°	942.2	941.9	939.0	938.4	936.3	933.7	933.1	928.4	919.0	914.6	913.4
5°	1038.6	1045.9	1036.3	1034.5	1033.4	1021.3	1015.1	1007.8	990.9	981.0	973.3
7.5°	1153.6	1154.4	1150.3	1146.9	1137.6	1127.0	1111.2	1094.3	1074.2	1053.3	1037.6
10°	1229.3	1232.2	1227.5	1226.7	1208.0	1196.3	1172.8	1153.0	1130.2	1104.9	1081.9
12.5°	1309.1	1305.0	1302.5	1286.9	1283.4	1262.0	1234.7	1214.3	1179.2	1150.1	1119.4
15°	1426.5	1418.5	1413.3	1391.8	1381.1	1351.4	1322.4	1300.0	1254.2	1210.6	1177.5
17.5°	1495.5	1503.5	1491.7	1482.8	1455.3	1434.5	1404.9	1357.9	1322.0	1267.8	1226.2
20°	1545.4	1546.1	1539.5	1530.3	1508.7	1482.3	1450.0	1398.7	1355.8	1301.8	1244.6
22.5°	1558.9	1559.1	1556.2	1547.7	1531.3	1509.9	1477.3	1434.5	1382.5	1323.9	1266.7
25°	1514.6	1513.2	1516.5	1526.0	1519.8	1513.2	1494.4	1462.5	1414.1	1352.1	1290.5
27.5°	1350.0	1360.1	1378.8	1402.2	1424.8	1442.0	1446.9	1440.4	1410.3	1359.3	1294.9
30°	1231.4	1244.0	1257.8	1281.4	1326.8	1352.8	1381.5	1403.1	1391.0	1350.3	1290.2
32.5°	1101.2	1104.3	1124.9	1151.7	1193.4	1243.4	1288.7	1332.7	1347.3	1326.0	1275.7
35°	895.5	900.7	923.0	949.4	1000.4	1061.7	1129.9	1190.7	1241.0	1261.2	1235.5
37.5°	730.8	745.6	761.3	789.7	834.6	889.8	960.6	1039.3	1114.3	1164.4	1172.9
40°	652.8	661.9	673.4	694.9	733.1	787.4	848.2	938.5	1018.0	1090.0	1113.4
42.5°	591.2	596.5	603.5	623.0	652.1	706.1	761.7	841.0	921.0	1006.9	1046.2
45°	502.4	507.9	519.6	531.0	553.0	590.4	642.2	707.4	787.7	870.6	943.2
47.5°	438.3	441.9	448.8	461.0	479.7	504.4	546.4	600.9	675.3	755.8	833.2
50°	401.9	404.8	410.4	421.4	435.6	457.7	492.1	543.1	601.4	682.5	758.4
52.5°	373.2	374.4	378.4	385.9	397.3	415.8	444.0	486.2	540.5	612.7	688.2
55°	328.6	330.1	333.8	339.2	349.1	360.9	382.5	414.1	461.4	524.1	589.7
57.5°	291.9	292.9	296.1	298.1	306.3	315.8	332.4	355.0	390.9	444.0	502.7
60°	268.4	267.7	271.4	273.2	278.7	286.8	299.6	321.2	352.4	395.3	449.2
62.5°	245.5	244.5	247.6	250.1	253.2	260.0	270.6	287.5	312.8	351.7	398.2
65°	211.2	209.8	211.6	214.5	217.4	221.1	228.8	243.8	264.0	291.9	327.4
67.5°	176.7	178.3	178.6	180.0	181.7	186.7	192.0	202.6	216.9	239.2	269.3
70°	156.2	156.6	158.1	158.1	159.2	163.5	168.0	174.2	188.1	208.7	233.3
72.5°	135.7	137.2	136.7	137.8	138.6	141.6	144.8	150.7	162.6	177.9	198.6
75°	105.7	106.7	106.7	107.1	108.2	109.2	111.9	116.2	124.7	136.0	150.3
77.5°	77.0	77.2	77.7	79.0	79.0	80.8	82.7	86.1	90.4	98.1	106.9
80°	59.4	60.1	59.8	60.5	60.5	62.0	62.7	67.1	68.9	74.1	81.1
82.5°	43.5	44.3	44.2	45.2	45.8	46.1	47.1	48.9	50.7	55.3	58.2
85°	22.0	22.7	22.0	22.7	23.8	24.2	25.3	25.6	27.1	28.3	30.8
87.5°	10.8	11.7	11.6	11.9	12.3	12.5	12.6	12.2	13.1	13.2	14.1
90°	22.1	21.8	21.5	21.1	20.8	20.2	19.1	18.2	17.2	16.2	14.9
92.5°	32.7	32.5	32.3	32.1	32.0	31.6	30.9	30.3	29.8	29.2	28.3
95°	58.2	58.2	58.2	58.2	58.2	58.0	57.5	57.0	56.5	56.0	54.9
97.5°	91.2	91.2	91.2	91.2	91.2	91.0	90.3	89.7	89.2	88.6	87.2
100°	114.2	114.2	114.2	114.2	114.2	114.0	113.8	113.4	113.1	112.7	111.2
102.5°	140.2	140.1	139.9	139.8	139.6	139.3	138.8	138.5	138.0	137.5	136.2
105°	179.8	179.3	178.8	178.3	177.9	177.3	176.8	176.3	175.9	175.4	174.7
107.5°	218.4	218.5	218.5	218.5	218.6	218.3	217.8	217.4	217.0	216.5	216.4
110°	246.1	245.6	245.2	244.7	244.1	244.0	244.4	244.7	245.1	245.3	245.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	274.4	274.3	274.2	274.1	274.0	274.0	274.1	274.1	274.2	274.3	274.6
115°	318.3	318.5	318.7	318.9	319.0	319.1	319.3	319.4	319.6	319.8	320.1
117.5°	360.1	360.5	360.8	361.2	361.5	361.9	362.5	363.1	363.6	364.2	364.4
120°	392.0	391.7	391.3	391.1	390.7	391.0	391.7	392.6	393.4	394.3	394.7
122.5°	418.6	419.1	419.7	420.3	420.9	421.5	422.1	422.5	423.1	423.7	424.0
125°	464.2	464.6	464.9	465.2	465.5	465.9	466.2	466.6	466.8	467.2	467.3
127.5°	506.5	506.8	507.1	507.3	507.6	507.8	508.2	508.5	508.9	509.2	509.4
130°	534.2	534.9	535.6	536.2	536.9	537.3	537.6	538.0	538.3	538.7	538.7
132.5°	563.7	563.9	564.2	564.5	564.8	565.1	565.3	565.7	566.0	566.4	566.5
135°	604.3	604.7	605.2	605.7	606.1	606.6	606.9	607.3	607.6	607.9	607.9
137.5°	646.9	646.7	646.6	646.5	646.4	646.6	647.1	647.4	647.9	648.3	648.0
140°	672.8	672.9	673.1	673.3	673.4	673.5	673.7	673.9	674.1	674.2	674.2
142.5°	698.7	698.7	698.8	698.8	698.8	698.9	698.9	698.9	699.0	699.0	699.1
145°	734.0	734.4	734.9	735.4	735.8	736.2	736.4	736.5	736.7	736.9	736.7
147.5°	769.6	769.8	769.9	770.1	770.2	770.3	770.5	770.6	770.8	770.9	771.0
150°	791.4	791.5	791.7	791.9	792.0	792.1	792.1	792.1	792.1	792.1	792.1
152.5°	811.4	811.9	812.3	812.8	813.1	813.1	812.8	812.4	812.0	811.6	811.4
155°	839.3	839.9	840.6	841.2	841.9	841.9	841.2	840.6	839.9	839.3	839.4
157.5°	864.2	864.8	865.3	865.9	866.4	866.5	866.0	865.4	865.0	864.5	864.5
160°	878.4	879.2	880.0	880.8	881.7	881.7	881.3	880.8	880.3	879.9	880.0
162.5°	893.1	893.9	894.8	895.5	896.4	896.4	895.4	894.6	893.7	892.8	893.0
165°	912.3	912.9	913.5	914.2	914.8	914.7	913.7	912.8	911.7	910.8	911.1
167.5°	926.0	927.0	927.9	929.0	930.0	930.0	929.1	928.0	927.1	926.0	926.0
170°	933.6	934.7	935.9	937.1	938.2	938.3	937.3	936.3	935.3	934.3	934.2
172.5°	940.1	941.2	942.4	943.6	944.7	944.7	943.6	942.4	941.3	940.3	940.2
175°	946.9	948.0	949.1	950.3	951.5	951.5	950.3	949.1	948.0	946.9	947.1
177.5°	950.4	951.5	952.5	953.6	954.6	954.7	953.8	952.8	951.9	951.0	951.0
180°	952.7	952.7	952.7	952.7	952.7	952.7	952.7	952.7	952.7	952.7	952.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2
2.5°	913.7	909.6	906.7	904.4	897.9	894.1	891.2	887.0	882.3	877.3	871.2
5°	965.6	953.1	944.0	930.0	916.8	905.8	894.5	884.2	871.7	858.2	848.2
7.5°	1020.1	1001.5	977.8	957.2	934.0	913.8	895.8	877.3	858.1	839.4	822.4
10°	1054.7	1030.9	1004.5	973.3	944.0	917.9	893.7	870.2	847.5	824.7	805.3
12.5°	1091.9	1062.2	1023.2	986.7	953.9	919.1	889.9	861.1	833.7	809.8	787.1
15°	1142.0	1099.1	1054.0	1005.2	962.0	921.2	881.3	844.9	814.2	782.6	760.6
17.5°	1172.7	1119.6	1068.1	1017.1	964.7	913.3	870.2	828.4	789.8	758.5	730.8
20°	1193.0	1140.2	1076.0	1025.0	962.6	909.8	860.0	813.4	773.1	739.7	711.1
22.5°	1210.6	1149.5	1085.3	1018.2	956.2	900.1	845.6	798.7	757.5	722.4	694.9
25°	1220.1	1150.1	1080.3	1013.6	943.2	876.8	827.4	772.3	728.3	691.3	661.9
27.5°	1221.2	1146.2	1067.4	993.3	920.6	858.8	796.3	747.1	701.4	662.2	634.0
30°	1217.9	1139.8	1055.1	974.8	901.8	834.6	780.4	726.9	680.2	641.4	612.1
32.5°	1207.6	1126.2	1039.2	954.2	878.6	812.9	757.0	706.1	660.6	622.4	591.5
35°	1177.9	1097.6	1004.8	916.4	839.1	772.7	722.1	670.3	624.9	588.6	558.9
37.5°	1131.5	1058.9	964.6	873.1	797.1	730.5	680.2	633.6	592.6	555.6	525.2
40°	1091.0	1027.2	932.6	843.5	761.3	697.9	650.9	608.0	567.3	532.4	503.5
42.5°	1044.3	988.7	901.4	807.1	727.8	664.1	618.4	579.9	541.5	509.3	480.3
45°	961.2	924.5	842.4	755.1	672.6	612.5	568.8	535.1	502.8	471.3	447.0
47.5°	865.5	847.3	778.2	695.3	617.0	557.7	519.9	488.7	460.4	433.7	412.4
50°	801.3	792.5	732.7	652.8	578.0	522.3	484.1	457.3	433.1	409.6	389.5
52.5°	737.9	737.6	683.7	610.5	541.3	487.6	449.8	424.7	403.8	384.7	366.6
55°	641.0	651.3	609.2	543.8	481.9	433.5	399.4	377.0	362.3	346.6	333.0
57.5°	552.0	569.1	534.3	476.8	425.1	380.5	350.8	334.0	318.4	308.9	299.0
60°	494.0	510.1	483.0	434.6	385.8	347.6	319.4	304.3	290.8	284.2	277.2
62.5°	442.3	456.8	436.6	391.7	349.4	312.7	288.9	274.5	265.3	258.1	253.4
65°	368.5	380.7	363.4	330.8	294.5	265.1	245.7	234.3	225.6	222.6	217.4
67.5°	297.9	309.0	299.6	271.9	242.8	220.6	205.4	194.4	189.3	186.6	183.0
70°	256.0	267.0	257.0	232.9	210.5	191.8	177.5	171.3	165.8	164.7	159.6
72.5°	220.5	228.0	218.0	199.2	180.0	164.2	153.2	146.7	143.7	141.8	139.0
75°	165.4	172.0	165.4	150.7	137.1	126.1	116.6	114.0	110.7	109.6	107.8
77.5°	117.1	122.8	117.7	108.6	98.4	89.9	84.8	81.5	80.8	78.9	79.7
80°	89.4	93.1	88.4	82.2	74.1	68.2	64.6	62.7	60.5	59.8	61.3
82.5°	64.3	65.9	63.4	59.3	53.3	49.4	46.9	44.8	44.4	44.5	44.5
85°	33.4	33.0	32.6	28.9	27.1	24.6	23.1	22.7	22.3	23.1	23.8
87.5°	13.9	13.9	13.4	11.9	10.7	9.3	8.8	8.1	8.8	9.3	10.0
90°	13.6	12.3	10.9	9.4	7.6	5.8	4.1	2.2	4.1	5.8	7.6
92.5°	27.3	26.4	25.5	24.0	22.0	19.9	17.8	15.7	17.8	19.9	22.0
95°	53.7	52.6	51.5	50.1	48.6	47.1	45.7	44.2	45.7	47.1	48.6
97.5°	85.9	84.5	83.2	81.9	80.8	79.6	78.4	77.2	78.4	79.6	80.8
100°	109.8	108.3	106.9	105.8	105.1	104.4	103.8	103.2	103.8	104.4	105.1
102.5°	134.8	133.5	132.1	131.3	131.1	130.8	130.5	130.3	130.5	130.8	131.1
105°	174.1	173.4	172.8	172.4	172.2	172.0	171.8	171.7	171.8	172.0	172.2
107.5°	216.3	216.2	216.1	215.9	215.7	215.6	215.4	215.2	215.4	215.6	215.7
110°	245.7	245.9	246.0	245.9	245.6	245.2	245.0	244.7	245.0	245.2	245.6



TEST NUMBER: P332554-830

CATALOG NUMBER: SA4XXDIP-C575D810U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	274.8	275.1	275.4	275.6	275.5	275.4	275.3	275.3	275.3	275.4	275.5
115°	320.5	320.7	321.1	321.3	321.3	321.3	321.3	321.3	321.3	321.3	321.3
117.5°	364.6	364.9	365.0	365.1	365.0	364.9	364.8	364.6	364.8	364.9	365.0
120°	395.2	395.7	396.2	396.2	395.5	394.8	394.2	393.5	394.2	394.8	395.5
122.5°	424.1	424.4	424.6	424.6	424.3	424.0	423.8	423.6	423.8	424.0	424.3
125°	467.5	467.7	467.8	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9
127.5°	509.7	509.9	510.2	510.1	509.6	509.2	508.6	508.1	508.6	509.2	509.6
130°	538.7	538.7	538.7	538.4	537.9	537.4	537.0	536.4	537.0	537.4	537.9
132.5°	566.7	566.8	566.8	566.8	566.4	566.1	565.7	565.3	565.7	566.1	566.4
135°	607.9	607.9	607.9	607.5	606.4	605.5	604.5	603.5	604.5	605.5	606.4
137.5°	647.8	647.5	647.2	646.9	646.4	645.9	645.5	645.1	645.5	645.9	646.4
140°	674.2	674.2	674.2	674.1	673.7	673.4	673.1	672.8	673.1	673.4	673.7
142.5°	699.3	699.4	699.6	699.5	699.1	698.8	698.4	698.1	698.4	698.8	699.1
145°	736.5	736.4	736.2	735.8	735.2	734.5	733.9	733.2	733.9	734.5	735.2
147.5°	771.2	771.3	771.5	771.1	770.3	769.5	768.7	768.0	768.7	769.5	770.3
150°	792.1	792.1	792.1	791.8	791.2	790.5	789.9	789.2	789.9	790.5	791.2
152.5°	811.3	811.2	811.1	810.8	810.4	810.0	809.6	809.3	809.6	810.0	810.4
155°	839.6	839.8	839.9	840.0	840.0	840.0	840.0	840.0	840.0	840.0	840.0
157.5°	864.6	864.6	864.6	864.8	865.1	865.3	865.6	866.0	865.6	865.3	865.1
160°	880.1	880.3	880.4	880.6	880.8	881.0	881.1	881.3	881.1	881.0	880.8
162.5°	893.2	893.2	893.4	893.7	894.2	894.6	895.0	895.4	895.0	894.6	894.2
165°	911.4	911.7	912.1	912.5	912.9	913.5	914.0	914.5	914.0	913.5	912.9
167.5°	926.0	926.0	926.0	926.3	927.0	927.7	928.3	929.1	928.3	927.7	927.0
170°	934.1	933.9	933.7	934.1	934.8	935.7	936.5	937.3	936.5	935.7	934.8
172.5°	940.2	940.2	940.1	940.5	941.1	941.8	942.5	943.2	942.5	941.8	941.1
175°	947.2	947.3	947.5	948.0	948.9	949.6	950.5	951.3	950.5	949.6	948.9
177.5°	951.0	951.0	951.0	951.3	952.0	952.6	953.3	953.9	953.3	952.6	952.0
180°	952.7	952.7	952.7	952.7	952.7	952.7	952.7	952.7	952.7	952.7	952.7



TEST NUMBER: P332554-830

CATALOG NUMBER: SA4XXDIP-C575D810U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2
2.5°	868.3	865.6	861.8	856.5	852.2	847.4	846.2	844.5	848.0	845.1	844.2
5°	839.8	832.1	822.2	810.9	804.3	794.7	792.9	789.2	785.5	785.1	781.5
7.5°	809.6	798.3	785.4	773.8	763.1	752.7	745.8	744.4	739.0	735.8	732.2
10°	790.3	776.4	761.3	750.4	737.8	726.9	719.2	714.7	711.1	707.0	703.4
12.5°	767.4	752.6	740.2	728.3	713.5	705.1	692.5	684.9	684.1	684.2	674.7
15°	740.7	726.1	707.0	690.2	682.1	666.0	659.0	650.2	644.7	639.2	634.8
17.5°	710.4	692.1	677.2	657.8	642.4	629.6	620.4	615.1	606.9	599.1	593.4
20°	691.3	671.8	656.1	635.6	618.7	602.9	595.2	587.9	581.6	575.0	568.8
22.5°	671.9	651.6	632.4	612.4	596.6	580.0	572.6	562.6	556.7	553.0	546.8
25°	641.4	619.4	597.4	578.3	562.2	547.5	537.6	529.9	523.3	520.4	516.3
27.5°	608.2	586.4	565.1	543.5	525.2	514.5	506.6	500.8	497.0	493.1	491.3
30°	587.1	564.4	541.7	521.5	504.6	494.0	486.6	482.6	479.7	477.9	476.0
32.5°	565.7	543.3	519.3	501.0	485.9	476.4	470.8	466.7	465.3	464.7	464.0
35°	531.4	508.7	486.6	470.1	455.8	452.1	447.4	445.2	444.5	447.0	448.2
37.5°	498.1	477.0	456.8	440.8	431.4	426.0	424.4	424.5	427.2	429.4	432.1
40°	476.7	456.2	437.2	423.2	414.4	411.1	410.4	412.2	415.1	417.7	420.7
42.5°	455.9	435.6	418.4	405.3	399.2	396.2	396.6	398.4	402.6	405.7	410.1
45°	423.6	406.7	389.8	379.2	374.1	374.8	374.8	378.1	382.1	386.9	391.6
47.5°	393.1	376.1	362.2	353.3	350.6	350.0	352.0	356.4	362.2	368.1	374.8
50°	372.6	356.5	344.3	336.3	333.4	334.4	337.4	341.4	348.4	355.7	362.7
52.5°	351.8	337.1	325.8	318.4	316.3	318.3	321.2	327.6	333.8	341.7	350.1
55°	319.4	307.0	298.1	292.7	291.9	293.0	296.3	303.3	312.1	322.0	330.1
57.5°	287.2	276.8	268.7	264.9	265.3	266.4	271.7	280.0	289.5	300.0	310.4
60°	265.5	256.0	249.4	246.5	246.9	249.0	255.6	263.3	275.0	285.3	296.3
62.5°	245.0	236.6	230.3	227.6	227.2	232.0	238.3	246.3	258.1	269.5	281.3
65°	212.0	205.4	200.2	198.8	199.8	203.5	211.6	222.3	232.1	244.2	256.7
67.5°	179.6	174.3	170.8	171.4	172.8	178.1	184.9	194.1	205.3	217.8	230.2
70°	159.2	154.0	151.1	151.5	153.6	160.2	166.2	175.3	187.4	200.2	210.5
72.5°	138.1	134.7	132.1	133.6	135.7	140.3	147.6	156.8	167.5	179.4	190.3
75°	105.9	105.9	104.5	105.7	109.0	113.3	118.9	128.4	139.0	148.5	157.3
77.5°	78.6	77.9	78.8	80.1	82.0	87.2	93.5	100.4	108.3	117.9	125.2
80°	60.1	60.5	62.3	64.6	65.3	69.3	75.9	82.2	88.4	96.4	103.4
82.5°	45.1	45.5	46.5	49.3	50.0	54.4	58.6	64.8	70.5	75.9	81.7
85°	24.6	24.6	26.4	27.5	29.3	32.2	34.9	38.5	43.6	47.3	52.8
87.5°	11.3	11.6	13.0	13.9	15.0	16.8	17.5	20.9	22.3	23.9	26.8
90°	9.4	10.9	12.3	13.6	14.9	16.2	17.2	18.2	19.1	20.2	20.8
92.5°	24.0	25.5	26.4	27.3	28.3	29.2	29.8	30.3	30.9	31.6	32.0
95°	50.1	51.5	52.6	53.7	54.9	56.0	56.5	57.0	57.5	58.0	58.2
97.5°	81.9	83.2	84.5	85.9	87.2	88.6	89.2	89.7	90.3	91.0	91.2
100°	105.8	106.9	108.3	109.8	111.2	112.7	113.1	113.4	113.8	114.0	114.2
102.5°	131.3	132.1	133.5	134.8	136.2	137.5	138.0	138.5	138.8	139.3	139.6
105°	172.4	172.8	173.4	174.1	174.7	175.4	175.9	176.3	176.8	177.3	177.9
107.5°	215.9	216.1	216.2	216.3	216.4	216.5	217.0	217.4	217.8	218.3	218.6
110°	245.9	246.0	245.9	245.7	245.5	245.3	245.1	244.7	244.4	244.0	244.1



TEST NUMBER: P332554-830

CATALOG NUMBER: SA4XXDIP-C575D810U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	275.6	275.4	275.1	274.8	274.6	274.3	274.2	274.1	274.1	274.0	274.0
115°	321.3	321.1	320.7	320.5	320.1	319.8	319.6	319.4	319.3	319.1	319.0
117.5°	365.1	365.0	364.9	364.6	364.4	364.2	363.6	363.1	362.5	361.9	361.5
120°	396.2	396.2	395.7	395.2	394.7	394.3	393.4	392.6	391.7	391.0	390.7
122.5°	424.6	424.6	424.4	424.1	424.0	423.7	423.1	422.5	422.1	421.5	420.9
125°	467.9	467.8	467.7	467.5	467.3	467.2	466.8	466.6	466.2	465.9	465.5
127.5°	510.1	510.2	509.9	509.7	509.4	509.2	508.9	508.5	508.2	507.8	507.6
130°	538.4	538.7	538.7	538.7	538.7	538.7	538.3	538.0	537.6	537.3	536.9
132.5°	566.8	566.8	566.8	566.7	566.5	566.4	566.0	565.7	565.3	565.1	564.8
135°	607.5	607.9	607.9	607.9	607.9	607.9	607.6	607.3	606.9	606.6	606.1
137.5°	646.9	647.2	647.5	647.8	648.0	648.3	647.9	647.4	647.1	646.6	646.4
140°	674.1	674.2	674.2	674.2	674.2	674.2	674.1	673.9	673.7	673.5	673.4
142.5°	699.5	699.6	699.4	699.3	699.1	699.0	699.0	698.9	698.9	698.9	698.8
145°	735.8	736.2	736.4	736.5	736.7	736.9	736.7	736.5	736.4	736.2	735.8
147.5°	771.1	771.5	771.3	771.2	771.0	770.9	770.8	770.6	770.5	770.3	770.2
150°	791.8	792.1	792.1	792.1	792.1	792.1	792.1	792.1	792.1	792.1	792.0
152.5°	810.8	811.1	811.2	811.3	811.4	811.6	812.0	812.4	812.8	813.1	813.1
155°	840.0	839.9	839.8	839.6	839.4	839.3	839.9	840.6	841.2	841.9	841.9
157.5°	864.8	864.6	864.6	864.6	864.5	864.5	865.0	865.4	866.0	866.5	866.4
160°	880.6	880.4	880.3	880.1	880.0	879.9	880.3	880.8	881.3	881.7	881.7
162.5°	893.7	893.4	893.2	893.2	893.0	892.8	893.7	894.6	895.4	896.4	896.4
165°	912.5	912.1	911.7	911.4	911.1	910.8	911.7	912.8	913.7	914.7	914.8
167.5°	926.3	926.0	926.0	926.0	926.0	926.0	927.1	928.0	929.1	930.0	930.0
170°	934.1	933.7	933.9	934.1	934.2	934.3	935.3	936.3	937.3	938.3	938.2
172.5°	940.5	940.1	940.2	940.2	940.2	940.3	941.3	942.4	943.6	944.7	944.7
175°	948.0	947.5	947.3	947.2	947.1	946.9	948.0	949.1	950.3	951.5	951.5
177.5°	951.3	951.0	951.0	951.0	951.0	951.0	951.9	952.8	953.8	954.7	954.6
180°	952.7	952.7	952.7	952.7	952.7	952.7	952.7	952.7	952.7	952.7	952.7



TEST NUMBER: P332554-830

CATALOG NUMBER: SA4XXDIP-C575D810U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2
2.5°	843.6	843.0	840.9	840.7	840.9	843.0	843.6	844.2	845.1	848.0	844.5
5°	779.3	777.5	776.4	780.4	776.4	777.5	779.3	781.5	785.1	785.5	789.2
7.5°	730.8	729.3	726.1	725.1	726.1	729.3	730.8	732.2	735.8	739.0	744.4
10°	699.7	698.2	695.3	694.6	695.3	698.2	699.7	703.4	707.0	711.1	714.7
12.5°	669.8	666.8	666.3	667.0	666.3	666.8	669.8	674.7	684.2	684.1	684.9
15°	630.0	628.6	624.5	625.7	624.5	628.6	630.0	634.8	639.2	644.7	650.2
17.5°	590.9	589.1	584.2	588.5	584.2	589.1	590.9	593.4	599.1	606.9	615.1
20°	566.2	563.3	560.7	560.3	560.7	563.3	566.2	568.8	575.0	581.6	587.9
22.5°	542.7	540.1	539.9	537.4	539.9	540.1	542.7	546.8	553.0	556.7	562.6
25°	513.4	510.9	510.1	508.3	510.1	510.9	513.4	516.3	520.4	523.3	529.9
27.5°	490.9	489.7	488.3	488.9	488.3	489.7	490.9	491.3	493.1	497.0	500.8
30°	477.1	476.7	476.0	476.0	476.0	476.7	477.1	476.0	477.9	479.7	482.6
32.5°	465.7	465.6	466.0	466.0	466.0	465.6	465.7	464.0	464.7	465.3	466.7
35°	449.6	450.7	451.5	450.3	451.5	450.7	449.6	448.2	447.0	444.5	445.2
37.5°	435.1	436.2	437.2	438.5	437.2	436.2	435.1	432.1	429.4	427.2	424.5
40°	424.0	426.5	427.3	429.0	427.3	426.5	424.0	420.7	417.7	415.1	412.2
42.5°	413.4	416.2	418.1	418.5	418.1	416.2	413.4	410.1	405.7	402.6	398.4
45°	397.2	400.1	402.7	402.7	402.7	400.1	397.2	391.6	386.9	382.1	378.1
47.5°	380.4	384.7	387.2	387.9	387.2	384.7	380.4	374.8	368.1	362.2	356.4
50°	368.9	374.1	376.6	378.4	376.6	374.1	368.9	362.7	355.7	348.4	341.4
52.5°	357.8	362.9	366.4	367.3	366.4	362.9	357.8	350.1	341.7	333.8	327.6
55°	338.5	345.8	349.9	351.3	349.9	345.8	338.5	330.1	322.0	312.1	303.3
57.5°	320.3	327.1	331.8	332.8	331.8	327.1	320.3	310.4	300.0	289.5	280.0
60°	306.2	313.6	319.4	320.6	319.4	313.6	306.2	296.3	285.3	275.0	263.3
62.5°	291.8	299.4	304.7	307.6	304.7	299.4	291.8	281.3	269.5	258.1	246.3
65°	267.0	274.7	279.8	280.9	279.8	274.7	267.0	256.7	244.2	232.1	222.3
67.5°	239.9	247.5	250.9	253.1	250.9	247.5	239.9	230.2	217.8	205.3	194.1
70°	220.7	227.0	230.6	232.5	230.6	227.0	220.7	210.5	200.2	187.4	175.3
72.5°	199.1	205.6	209.8	210.2	209.8	205.6	199.1	190.3	179.4	167.5	156.8
75°	165.8	171.6	173.8	173.8	173.8	171.6	165.8	157.3	148.5	139.0	128.4
77.5°	131.2	134.2	137.0	137.6	137.0	134.2	131.2	125.2	117.9	108.3	100.4
80°	109.0	110.7	112.9	112.9	112.9	110.7	109.0	103.4	96.4	88.4	82.2
82.5°	86.1	87.6	89.7	89.4	89.7	87.6	86.1	81.7	75.9	70.5	64.8
85°	52.0	55.4	55.0	54.3	55.0	55.4	52.0	52.8	47.3	43.6	38.5
87.5°	27.7	28.1	29.0	29.7	29.0	28.1	27.7	26.8	23.9	22.3	20.9
90°	21.1	21.5	21.8	22.1	21.8	21.5	21.1	20.8	20.2	19.1	18.2
92.5°	32.1	32.3	32.5	32.7	32.5	32.3	32.1	32.0	31.6	30.9	30.3
95°	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.0	57.5	57.0
97.5°	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.0	90.3	89.7
100°	114.2	114.2	114.2	114.2	114.2	114.2	114.2	114.2	114.0	113.8	113.4
102.5°	139.8	139.9	140.1	140.2	140.1	139.9	139.8	139.6	139.3	138.8	138.5
105°	178.3	178.8	179.3	179.8	179.3	178.8	178.3	177.9	177.3	176.8	176.3
107.5°	218.5	218.5	218.5	218.4	218.5	218.5	218.5	218.6	218.3	217.8	217.4
110°	244.7	245.2	245.6	246.1	245.6	245.2	244.7	244.1	244.0	244.4	244.7



TEST NUMBER: P332554-830

CATALOG NUMBER: SA4XXDIP-C575D810U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	274.1	274.2	274.3	274.4	274.3	274.2	274.1	274.0	274.0	274.1	274.1
115°	318.9	318.7	318.5	318.3	318.5	318.7	318.9	319.0	319.1	319.3	319.4
117.5°	361.2	360.8	360.5	360.1	360.5	360.8	361.2	361.5	361.9	362.5	363.1
120°	391.1	391.3	391.7	392.0	391.7	391.3	391.1	390.7	391.0	391.7	392.6
122.5°	420.3	419.7	419.1	418.6	419.1	419.7	420.3	420.9	421.5	422.1	422.5
125°	465.2	464.9	464.6	464.2	464.6	464.9	465.2	465.5	465.9	466.2	466.6
127.5°	507.3	507.1	506.8	506.5	506.8	507.1	507.3	507.6	507.8	508.2	508.5
130°	536.2	535.6	534.9	534.2	534.9	535.6	536.2	536.9	537.3	537.6	538.0
132.5°	564.5	564.2	563.9	563.7	563.9	564.2	564.5	564.8	565.1	565.3	565.7
135°	605.7	605.2	604.7	604.3	604.7	605.2	605.7	606.1	606.6	606.9	607.3
137.5°	646.5	646.6	646.7	646.9	646.7	646.6	646.5	646.4	646.6	647.1	647.4
140°	673.3	673.1	672.9	672.8	672.9	673.1	673.3	673.4	673.5	673.7	673.9
142.5°	698.8	698.8	698.7	698.7	698.7	698.8	698.8	698.8	698.9	698.9	698.9
145°	735.4	734.9	734.4	734.0	734.4	734.9	735.4	735.8	736.2	736.4	736.5
147.5°	770.1	769.9	769.8	769.6	769.8	769.9	770.1	770.2	770.3	770.5	770.6
150°	791.9	791.7	791.5	791.4	791.5	791.7	791.9	792.0	792.1	792.1	792.1
152.5°	812.8	812.3	811.9	811.4	811.9	812.3	812.8	813.1	813.1	812.8	812.4
155°	841.2	840.6	839.9	839.3	839.9	840.6	841.2	841.9	841.9	841.2	840.6
157.5°	865.9	865.3	864.8	864.2	864.8	865.3	865.9	866.4	866.5	866.0	865.4
160°	880.8	880.0	879.2	878.4	879.2	880.0	880.8	881.7	881.7	881.3	880.8
162.5°	895.5	894.8	893.9	893.1	893.9	894.8	895.5	896.4	896.4	895.4	894.6
165°	914.2	913.5	912.9	912.3	912.9	913.5	914.2	914.8	914.7	913.7	912.8
167.5°	929.0	927.9	927.0	926.0	927.0	927.9	929.0	930.0	930.0	929.1	928.0
170°	937.1	935.9	934.7	933.6	934.7	935.9	937.1	938.2	938.3	937.3	936.3
172.5°	943.6	942.4	941.2	940.1	941.2	942.4	943.6	944.7	944.7	943.6	942.4
175°	950.3	949.1	948.0	946.9	948.0	949.1	950.3	951.5	951.5	950.3	949.1
177.5°	953.6	952.5	951.5	950.4	951.5	952.5	953.6	954.6	954.7	953.8	952.8
180°	952.7	952.7	952.7	952.7	952.7	952.7	952.7	952.7	952.7	952.7	952.7



TEST NUMBER: P332554-830

CATALOG NUMBER: SA4XXDIP-C575D810U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2
2.5°	846.2	847.4	852.2	856.5	861.8	865.6	868.3	871.2	877.3	882.3	887.0
5°	792.9	794.7	804.3	810.9	822.2	832.1	839.8	848.2	858.2	871.7	884.2
7.5°	745.8	752.7	763.1	773.8	785.4	798.3	809.6	822.4	839.4	858.1	877.3
10°	719.2	726.9	737.8	750.4	761.3	776.4	790.3	805.3	824.7	847.5	870.2
12.5°	692.5	705.1	713.5	728.3	740.2	752.6	767.4	787.1	809.8	833.7	861.1
15°	659.0	666.0	682.1	690.2	707.0	726.1	740.7	760.6	782.6	814.2	844.9
17.5°	620.4	629.6	642.4	657.8	677.2	692.1	710.4	730.8	758.5	789.8	828.4
20°	595.2	602.9	618.7	635.6	656.1	671.8	691.3	711.1	739.7	773.1	813.4
22.5°	572.6	580.0	596.6	612.4	632.4	651.6	671.9	694.9	722.4	757.5	798.7
25°	537.6	547.5	562.2	578.3	597.4	619.4	641.4	661.9	691.3	728.3	772.3
27.5°	506.6	514.5	525.2	543.5	565.1	586.4	608.2	634.0	662.2	701.4	747.1
30°	486.6	494.0	504.6	521.5	541.7	564.4	587.1	612.1	641.4	680.2	726.9
32.5°	470.8	476.4	485.9	501.0	519.3	543.3	565.7	591.5	622.4	660.6	706.1
35°	447.4	452.1	455.8	470.1	486.6	508.7	531.4	558.9	588.6	624.9	670.3
37.5°	424.4	426.0	431.4	440.8	456.8	477.0	498.1	525.2	555.6	592.6	633.6
40°	410.4	411.1	414.4	423.2	437.2	456.2	476.7	503.5	532.4	567.3	608.0
42.5°	396.6	396.2	399.2	405.3	418.4	435.6	455.9	480.3	509.3	541.5	579.9
45°	374.8	374.8	374.1	379.2	389.8	406.7	423.6	447.0	471.3	502.8	535.1
47.5°	352.0	350.0	350.6	353.3	362.2	376.1	393.1	412.4	433.7	460.4	488.7
50°	337.4	334.4	333.4	336.3	344.3	356.5	372.6	389.5	409.6	433.1	457.3
52.5°	321.2	318.3	316.3	318.4	325.8	337.1	351.8	366.6	384.7	403.8	424.7
55°	296.3	293.0	291.9	292.7	298.1	307.0	319.4	333.0	346.6	362.3	377.0
57.5°	271.7	266.4	265.3	264.9	268.7	276.8	287.2	299.0	308.9	318.4	334.0
60°	255.6	249.0	246.9	246.5	249.4	256.0	265.5	277.2	284.2	290.8	304.3
62.5°	238.3	232.0	227.2	227.6	230.3	236.6	245.0	253.4	258.1	265.3	274.5
65°	211.6	203.5	199.8	198.8	200.2	205.4	212.0	217.4	222.6	225.6	234.3
67.5°	184.9	178.1	172.8	171.4	170.8	174.3	179.6	183.0	186.6	189.3	194.4
70°	166.2	160.2	153.6	151.5	151.1	154.0	159.2	159.6	164.7	165.8	171.3
72.5°	147.6	140.3	135.7	133.6	132.1	134.7	138.1	139.0	141.8	143.7	146.7
75°	118.9	113.3	109.0	105.7	104.5	105.9	105.9	107.8	109.6	110.7	114.0
77.5°	93.5	87.2	82.0	80.1	78.8	77.9	78.6	79.7	78.9	80.8	81.5
80°	75.9	69.3	65.3	64.6	62.3	60.5	60.1	61.3	59.8	60.5	62.7
82.5°	58.6	54.4	50.0	49.3	46.5	45.5	45.1	44.5	44.5	44.4	44.8
85°	34.9	32.2	29.3	27.5	26.4	24.6	24.6	23.8	23.1	22.3	22.7
87.5°	17.5	16.8	15.0	13.9	13.0	11.6	11.3	10.0	9.3	8.8	8.1
90°	17.2	16.2	14.9	13.6	12.3	10.9	9.4	7.6	5.8	4.1	2.2
92.5°	29.8	29.2	28.3	27.3	26.4	25.5	24.0	22.0	19.9	17.8	15.7
95°	56.5	56.0	54.9	53.7	52.6	51.5	50.1	48.6	47.1	45.7	44.2
97.5°	89.2	88.6	87.2	85.9	84.5	83.2	81.9	80.8	79.6	78.4	77.2
100°	113.1	112.7	111.2	109.8	108.3	106.9	105.8	105.1	104.4	103.8	103.2
102.5°	138.0	137.5	136.2	134.8	133.5	132.1	131.3	131.1	130.8	130.5	130.3
105°	175.9	175.4	174.7	174.1	173.4	172.8	172.4	172.2	172.0	171.8	171.7
107.5°	217.0	216.5	216.4	216.3	216.2	216.1	215.9	215.7	215.6	215.4	215.2
110°	245.1	245.3	245.5	245.7	245.9	246.0	245.9	245.6	245.2	245.0	244.7



TEST NUMBER: P332554-830

CATALOG NUMBER: SA4XXDIP-C575D810U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	274.2	274.3	274.6	274.8	275.1	275.4	275.6	275.5	275.4	275.3	275.3
115°	319.6	319.8	320.1	320.5	320.7	321.1	321.3	321.3	321.3	321.3	321.3
117.5°	363.6	364.2	364.4	364.6	364.9	365.0	365.1	365.0	364.9	364.8	364.6
120°	393.4	394.3	394.7	395.2	395.7	396.2	396.2	395.5	394.8	394.2	393.5
122.5°	423.1	423.7	424.0	424.1	424.4	424.6	424.6	424.3	424.0	423.8	423.6
125°	466.8	467.2	467.3	467.5	467.7	467.8	467.9	467.9	467.9	467.9	467.9
127.5°	508.9	509.2	509.4	509.7	509.9	510.2	510.1	509.6	509.2	508.6	508.1
130°	538.3	538.7	538.7	538.7	538.7	538.7	538.4	537.9	537.4	537.0	536.4
132.5°	566.0	566.4	566.5	566.7	566.8	566.8	566.8	566.4	566.1	565.7	565.3
135°	607.6	607.9	607.9	607.9	607.9	607.9	607.5	606.4	605.5	604.5	603.5
137.5°	647.9	648.3	648.0	647.8	647.5	647.2	646.9	646.4	645.9	645.5	645.1
140°	674.1	674.2	674.2	674.2	674.2	674.2	674.1	673.7	673.4	673.1	672.8
142.5°	699.0	699.0	699.1	699.3	699.4	699.6	699.5	699.1	698.8	698.4	698.1
145°	736.7	736.9	736.7	736.5	736.4	736.2	735.8	735.2	734.5	733.9	733.2
147.5°	770.8	770.9	771.0	771.2	771.3	771.5	771.1	770.3	769.5	768.7	768.0
150°	792.1	792.1	792.1	792.1	792.1	792.1	791.8	791.2	790.5	789.9	789.2
152.5°	812.0	811.6	811.4	811.3	811.2	811.1	810.8	810.4	810.0	809.6	809.3
155°	839.9	839.3	839.4	839.6	839.8	839.9	840.0	840.0	840.0	840.0	840.0
157.5°	865.0	864.5	864.5	864.6	864.6	864.6	864.8	865.1	865.3	865.6	866.0
160°	880.3	879.9	880.0	880.1	880.3	880.4	880.6	880.8	881.0	881.1	881.3
162.5°	893.7	892.8	893.0	893.2	893.2	893.4	893.7	894.2	894.6	895.0	895.4
165°	911.7	910.8	911.1	911.4	911.7	912.1	912.5	912.9	913.5	914.0	914.5
167.5°	927.1	926.0	926.0	926.0	926.0	926.0	926.3	927.0	927.7	928.3	929.1
170°	935.3	934.3	934.2	934.1	933.9	933.7	934.1	934.8	935.7	936.5	937.3
172.5°	941.3	940.3	940.2	940.2	940.2	940.1	940.5	941.1	941.8	942.5	943.2
175°	948.0	946.9	947.1	947.2	947.3	947.5	948.0	948.9	949.6	950.5	951.3
177.5°	951.9	951.0	951.0	951.0	951.0	951.0	951.3	952.0	952.6	953.3	953.9
180°	952.7	952.7	952.7	952.7	952.7	952.7	952.7	952.7	952.7	952.7	952.7



TEST NUMBER: P332554-830

CATALOG NUMBER: SA4XXDIP-C575D810U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2	885.2
2.5°	891.2	894.1	897.9	904.4	906.7	909.6	913.7	913.4	914.6	919.0	928.4
5°	894.5	905.8	916.8	930.0	944.0	953.1	965.6	973.3	981.0	990.9	1007.8
7.5°	895.8	913.8	934.0	957.2	977.8	1001.5	1020.1	1037.6	1053.3	1074.2	1094.3
10°	893.7	917.9	944.0	973.3	1004.5	1030.9	1054.7	1081.9	1104.9	1130.2	1153.0
12.5°	889.9	919.1	953.9	986.7	1023.2	1062.2	1091.9	1119.4	1150.1	1179.2	1214.3
15°	881.3	921.2	962.0	1005.2	1054.0	1099.1	1142.0	1177.5	1210.6	1254.2	1300.0
17.5°	870.2	913.3	964.7	1017.1	1068.1	1119.6	1172.7	1226.2	1267.8	1322.0	1357.9
20°	860.0	909.8	962.6	1025.0	1076.0	1140.2	1193.0	1244.6	1301.8	1355.8	1398.7
22.5°	845.6	900.1	956.2	1018.2	1085.3	1149.5	1210.6	1266.7	1323.9	1382.5	1434.5
25°	827.4	876.8	943.2	1013.6	1080.3	1150.1	1220.1	1290.5	1352.1	1414.1	1462.5
27.5°	796.3	858.8	920.6	993.3	1067.4	1146.2	1221.2	1294.9	1359.3	1410.3	1440.4
30°	780.4	834.6	901.8	974.8	1055.1	1139.8	1217.9	1290.2	1350.3	1391.0	1403.1
32.5°	757.0	812.9	878.6	954.2	1039.2	1126.2	1207.6	1275.7	1326.0	1347.3	1332.7
35°	722.1	772.7	839.1	916.4	1004.8	1097.6	1177.9	1235.5	1261.2	1241.0	1190.7
37.5°	680.2	730.5	797.1	873.1	964.6	1058.9	1131.5	1172.9	1164.4	1114.3	1039.3
40°	650.9	697.9	761.3	843.5	932.6	1027.2	1091.0	1113.4	1090.0	1018.0	938.5
42.5°	618.4	664.1	727.8	807.1	901.4	988.7	1044.3	1046.2	1006.9	921.0	841.0
45°	568.8	612.5	672.6	755.1	842.4	924.5	961.2	943.2	870.6	787.7	707.4
47.5°	519.9	557.7	617.0	695.3	778.2	847.3	865.5	833.2	755.8	675.3	600.9
50°	484.1	522.3	578.0	652.8	732.7	792.5	801.3	758.4	682.5	601.4	543.1
52.5°	449.8	487.6	541.3	610.5	683.7	737.6	737.9	688.2	612.7	540.5	486.2
55°	399.4	433.5	481.9	543.8	609.2	651.3	641.0	589.7	524.1	461.4	414.1
57.5°	350.8	380.5	425.1	476.8	534.3	569.1	552.0	502.7	444.0	390.9	355.0
60°	319.4	347.6	385.8	434.6	483.0	510.1	494.0	449.2	395.3	352.4	321.2
62.5°	288.9	312.7	349.4	391.7	436.6	456.8	442.3	398.2	351.7	312.8	287.5
65°	245.7	265.1	294.5	330.8	363.4	380.7	368.5	327.4	291.9	264.0	243.8
67.5°	205.4	220.6	242.8	271.9	299.6	309.0	297.9	269.3	239.2	216.9	202.6
70°	177.5	191.8	210.5	232.9	257.0	267.0	256.0	233.3	208.7	188.1	174.2
72.5°	153.2	164.2	180.0	199.2	218.0	228.0	220.5	198.6	177.9	162.6	150.7
75°	116.6	126.1	137.1	150.7	165.4	172.0	165.4	150.3	136.0	124.7	116.2
77.5°	84.8	89.9	98.4	108.6	117.7	122.8	117.1	106.9	98.1	90.4	86.1
80°	64.6	68.2	74.1	82.2	88.4	93.1	89.4	81.1	74.1	68.9	67.1
82.5°	46.9	49.4	53.3	59.3	63.4	65.9	64.3	58.2	55.3	50.7	48.9
85°	23.1	24.6	27.1	28.9	32.6	33.0	33.4	30.8	28.3	27.1	25.6
87.5°	8.8	9.3	10.7	11.9	13.4	13.9	13.9	14.1	13.2	13.1	12.2
90°	4.1	5.8	7.6	9.4	10.9	12.3	13.6	14.9	16.2	17.2	18.2
92.5°	17.8	19.9	22.0	24.0	25.5	26.4	27.3	28.3	29.2	29.8	30.3
95°	45.7	47.1	48.6	50.1	51.5	52.6	53.7	54.9	56.0	56.5	57.0
97.5°	78.4	79.6	80.8	81.9	83.2	84.5	85.9	87.2	88.6	89.2	89.7
100°	103.8	104.4	105.1	105.8	106.9	108.3	109.8	111.2	112.7	113.1	113.4
102.5°	130.5	130.8	131.1	131.3	132.1	133.5	134.8	136.2	137.5	138.0	138.5
105°	171.8	172.0	172.2	172.4	172.8	173.4	174.1	174.7	175.4	175.9	176.3
107.5°	215.4	215.6	215.7	215.9	216.1	216.2	216.3	216.4	216.5	217.0	217.4
110°	245.0	245.2	245.6	245.9	246.0	245.9	245.7	245.5	245.3	245.1	244.7



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	275.3	275.4	275.5	275.6	275.4	275.1	274.8	274.6	274.3	274.2	274.1
115°	321.3	321.3	321.3	321.3	321.1	320.7	320.5	320.1	319.8	319.6	319.4
117.5°	364.8	364.9	365.0	365.1	365.0	364.9	364.6	364.4	364.2	363.6	363.1
120°	394.2	394.8	395.5	396.2	396.2	395.7	395.2	394.7	394.3	393.4	392.6
122.5°	423.8	424.0	424.3	424.6	424.6	424.4	424.1	424.0	423.7	423.1	422.5
125°	467.9	467.9	467.9	467.9	467.8	467.7	467.5	467.3	467.2	466.8	466.6
127.5°	508.6	509.2	509.6	510.1	510.2	509.9	509.7	509.4	509.2	508.9	508.5
130°	537.0	537.4	537.9	538.4	538.7	538.7	538.7	538.7	538.7	538.3	538.0
132.5°	565.7	566.1	566.4	566.8	566.8	566.8	566.7	566.5	566.4	566.0	565.7
135°	604.5	605.5	606.4	607.5	607.9	607.9	607.9	607.9	607.9	607.6	607.3
137.5°	645.5	645.9	646.4	646.9	647.2	647.5	647.8	648.0	648.3	647.9	647.4
140°	673.1	673.4	673.7	674.1	674.2	674.2	674.2	674.2	674.2	674.1	673.9
142.5°	698.4	698.8	699.1	699.5	699.6	699.4	699.3	699.1	699.0	699.0	698.9
145°	733.9	734.5	735.2	735.8	736.2	736.4	736.5	736.7	736.9	736.7	736.5
147.5°	768.7	769.5	770.3	771.1	771.5	771.3	771.2	771.0	770.9	770.8	770.6
150°	789.9	790.5	791.2	791.8	792.1	792.1	792.1	792.1	792.1	792.1	792.1
152.5°	809.6	810.0	810.4	810.8	811.1	811.2	811.3	811.4	811.6	812.0	812.4
155°	840.0	840.0	840.0	840.0	839.9	839.8	839.6	839.4	839.3	839.9	840.6
157.5°	865.6	865.3	865.1	864.8	864.6	864.6	864.6	864.5	864.5	865.0	865.4
160°	881.1	881.0	880.8	880.6	880.4	880.3	880.1	880.0	879.9	880.3	880.8
162.5°	895.0	894.6	894.2	893.7	893.4	893.2	893.2	893.0	892.8	893.7	894.6
165°	914.0	913.5	912.9	912.5	912.1	911.7	911.4	911.1	910.8	911.7	912.8
167.5°	928.3	927.7	927.0	926.3	926.0	926.0	926.0	926.0	926.0	927.1	928.0
170°	936.5	935.7	934.8	934.1	933.7	933.9	934.1	934.2	934.3	935.3	936.3
172.5°	942.5	941.8	941.1	940.5	940.1	940.2	940.2	940.2	940.3	941.3	942.4
175°	950.5	949.6	948.9	948.0	947.5	947.3	947.2	947.1	946.9	948.0	949.1
177.5°	953.3	952.6	952.0	951.3	951.0	951.0	951.0	951.0	951.0	951.9	952.8
180°	952.7	952.7	952.7	952.7	952.7	952.7	952.7	952.7	952.7	952.7	952.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	885.2	885.2	885.2	885.2	885.2	885.2	885.2
2.5°	933.1	933.7	936.3	938.4	939.0	941.9	942.2
5°	1015.1	1021.3	1033.4	1034.5	1036.3	1045.9	1038.6
7.5°	1111.2	1127.0	1137.6	1146.9	1150.3	1154.4	1153.6
10°	1172.8	1196.3	1208.0	1226.7	1227.5	1232.2	1229.3
12.5°	1234.7	1262.0	1283.4	1286.9	1302.5	1305.0	1309.1
15°	1322.4	1351.4	1381.1	1391.8	1413.3	1418.5	1426.5
17.5°	1404.9	1434.5	1455.3	1482.8	1491.7	1503.5	1495.5
20°	1450.0	1482.3	1508.7	1530.3	1539.5	1546.1	1545.4
22.5°	1477.3	1509.9	1531.3	1547.7	1556.2	1559.1	1558.9
25°	1494.4	1513.2	1519.8	1526.0	1516.5	1513.2	1514.6
27.5°	1446.9	1442.0	1424.8	1402.2	1378.8	1360.1	1350.0
30°	1381.5	1352.8	1326.8	1281.4	1257.8	1244.0	1231.4
32.5°	1288.7	1243.4	1193.4	1151.7	1124.9	1104.3	1101.2
35°	1129.9	1061.7	1000.4	949.4	923.0	900.7	895.5
37.5°	960.6	889.8	834.6	789.7	761.3	745.6	730.8
40°	848.2	787.4	733.1	694.9	673.4	661.9	652.8
42.5°	761.7	706.1	652.1	623.0	603.5	596.5	591.2
45°	642.2	590.4	553.0	531.0	519.6	507.9	502.4
47.5°	546.4	504.4	479.7	461.0	448.8	441.9	438.3
50°	492.1	457.7	435.6	421.4	410.4	404.8	401.9
52.5°	444.0	415.8	397.3	385.9	378.4	374.4	373.2
55°	382.5	360.9	349.1	339.2	333.8	330.1	328.6
57.5°	332.4	315.8	306.3	298.1	296.1	292.9	291.9
60°	299.6	286.8	278.7	273.2	271.4	267.7	268.4
62.5°	270.6	260.0	253.2	250.1	247.6	244.5	245.5
65°	228.8	221.1	217.4	214.5	211.6	209.8	211.2
67.5°	192.0	186.7	181.7	180.0	178.6	178.3	176.7
70°	168.0	163.5	159.2	158.1	158.1	156.6	156.2
72.5°	144.8	141.6	138.6	137.8	136.7	137.2	135.7
75°	111.9	109.2	108.2	107.1	106.7	106.7	105.7
77.5°	82.7	80.8	79.0	79.0	77.7	77.2	77.0
80°	62.7	62.0	60.5	60.5	59.8	60.1	59.4
82.5°	47.1	46.1	45.8	45.2	44.2	44.3	43.5
85°	25.3	24.2	23.8	22.7	22.0	22.7	22.0
87.5°	12.6	12.5	12.3	11.9	11.6	11.7	10.8
90°	19.1	20.2	20.8	21.1	21.5	21.8	22.1
92.5°	30.9	31.6	32.0	32.1	32.3	32.5	32.7
95°	57.5	58.0	58.2	58.2	58.2	58.2	58.2
97.5°	90.3	91.0	91.2	91.2	91.2	91.2	91.2
100°	113.8	114.0	114.2	114.2	114.2	114.2	114.2
102.5°	138.8	139.3	139.6	139.8	139.9	140.1	140.2
105°	176.8	177.3	177.9	178.3	178.8	179.3	179.8
107.5°	217.8	218.3	218.6	218.5	218.5	218.5	218.4
110°	244.4	244.0	244.1	244.7	245.2	245.6	246.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	274.1	274.0	274.0	274.1	274.2	274.3	274.4
115°	319.3	319.1	319.0	318.9	318.7	318.5	318.3
117.5°	362.5	361.9	361.5	361.2	360.8	360.5	360.1
120°	391.7	391.0	390.7	391.1	391.3	391.7	392.0
122.5°	422.1	421.5	420.9	420.3	419.7	419.1	418.6
125°	466.2	465.9	465.5	465.2	464.9	464.6	464.2
127.5°	508.2	507.8	507.6	507.3	507.1	506.8	506.5
130°	537.6	537.3	536.9	536.2	535.6	534.9	534.2
132.5°	565.3	565.1	564.8	564.5	564.2	563.9	563.7
135°	606.9	606.6	606.1	605.7	605.2	604.7	604.3
137.5°	647.1	646.6	646.4	646.5	646.6	646.7	646.9
140°	673.7	673.5	673.4	673.3	673.1	672.9	672.8
142.5°	698.9	698.9	698.8	698.8	698.8	698.7	698.7
145°	736.4	736.2	735.8	735.4	734.9	734.4	734.0
147.5°	770.5	770.3	770.2	770.1	769.9	769.8	769.6
150°	792.1	792.1	792.0	791.9	791.7	791.5	791.4
152.5°	812.8	813.1	813.1	812.8	812.3	811.9	811.4
155°	841.2	841.9	841.9	841.2	840.6	839.9	839.3
157.5°	866.0	866.5	866.4	865.9	865.3	864.8	864.2
160°	881.3	881.7	881.7	880.8	880.0	879.2	878.4
162.5°	895.4	896.4	896.4	895.5	894.8	893.9	893.1
165°	913.7	914.7	914.8	914.2	913.5	912.9	912.3
167.5°	929.1	930.0	930.0	929.0	927.9	927.0	926.0
170°	937.3	938.3	938.2	937.1	935.9	934.7	933.6
172.5°	943.6	944.7	944.7	943.6	942.4	941.2	940.1
175°	950.3	951.5	951.5	950.3	949.1	948.0	946.9
177.5°	953.8	954.7	954.6	953.6	952.5	951.5	950.4
180°	952.7	952.7	952.7	952.7	952.7	952.7	952.7

(END OF REPORT)