

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: P332553-830

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

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332553-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,
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-A
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 575 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 810 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

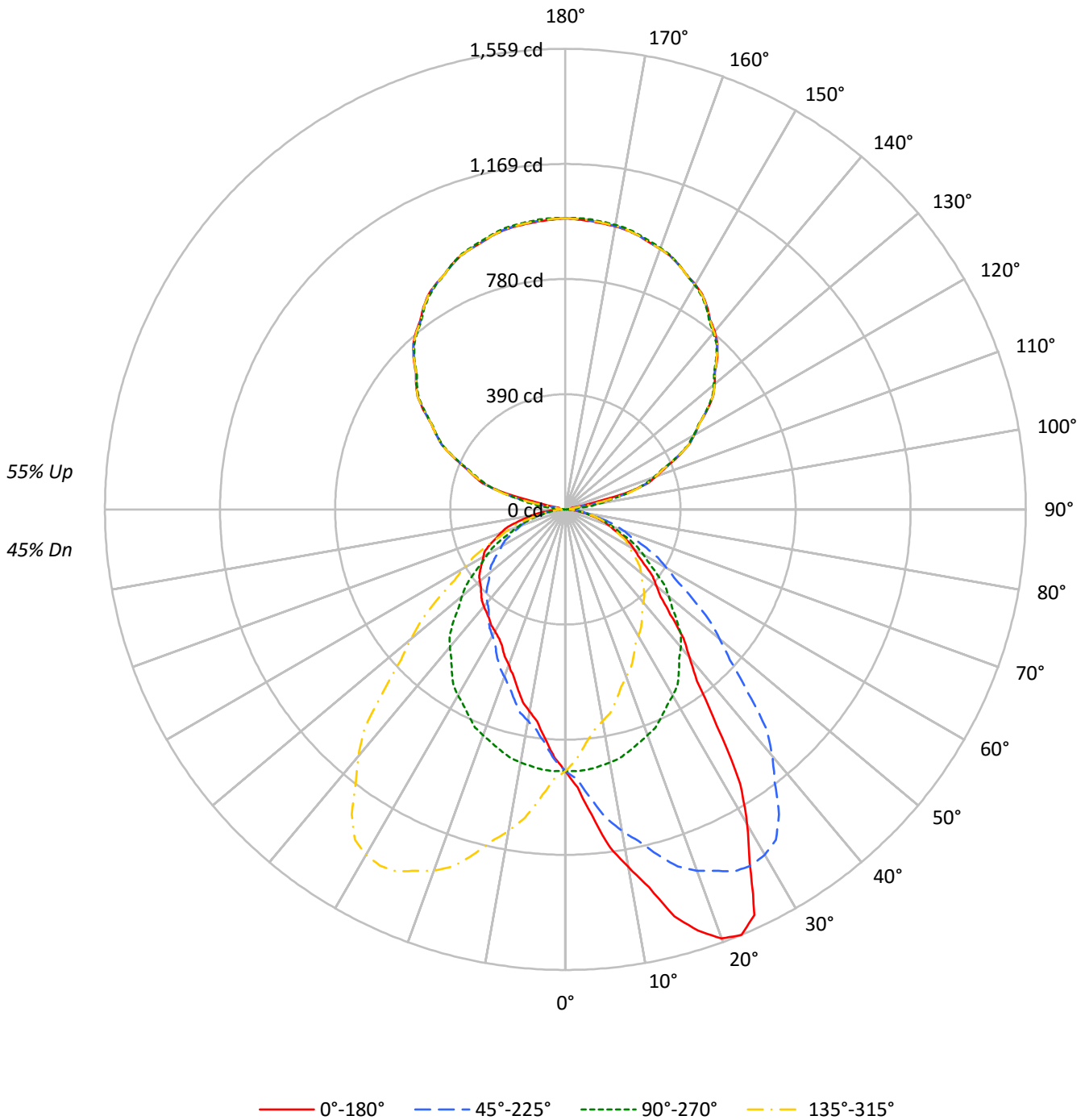
Lumens per Lamp: N/A
Luminaire Lumens: 5493.2 lumens
Efficiency: N/A
Efficacy: 143.1 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

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	0
RCR																		
0	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	45
1	97	93	89	85	88	85	82	79	71	68	66	58	56	55	45	44	43	38
2	88	81	75	70	81	74	69	65	62	58	55	51	48	46	40	38	37	32
3	81	71	64	59	74	66	59	54	55	50	47	45	42	39	36	34	32	27
4	74	63	56	50	67	58	52	46	49	44	40	40	37	34	32	30	27	24
5	68	56	48	43	62	52	45	40	44	39	34	36	32	29	29	26	24	21
6	62	51	43	37	57	47	40	35	40	34	30	33	29	26	26	23	21	18
7	58	46	38	32	53	42	35	30	36	30	27	30	26	23	24	21	19	16
8	54	41	34	29	49	38	32	27	33	27	24	27	23	20	22	19	17	15
9	50	38	30	26	46	35	29	24	30	25	21	25	21	18	20	17	15	13
10	47	35	28	23	43	32	26	22	28	23	19	23	19	16	19	16	14	12

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	1.6
10°-20°	265.8	4.8
20°-30°	421.5	7.7
30°-40°	469.1	8.5
40°-50°	427.0	7.8
50°-60°	349.0	6.4
60°-70°	249.1	4.5
70°-80°	137.2	2.5
80°-90°	40.3	0.7
90°-100°	33.7	0.6
100°-110°	214.9	3.9
110°-120°	411.0	7.5
120°-130°	521.8	9.5
130°-140°	558.3	10.2
140°-150°	522.1	9.5
150°-160°	421.0	7.7
160°-170°	271.5	4.9
170°-180°	93.6	1.7
0°-30°	773.6	14.1
0°-40°	1242.8	22.6
0°-60°	2018.8	36.7
0°-90°	2445.3	44.5
90°-120°	659.6	12.0
90°-150°	2261.8	41.2
90°-180°	3048.0	55.5
0°-180°	5493.2	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	10
95°	21	40	21	40	21	17
105°	210	222	210	222	210	183
115°	417	414	417	414	417	413
125°	587	582	587	582	587	522
135°	727	722	727	722	727	560
145°	837	833	837	833	837	523
155°	912	913	912	913	912	421
165°	959	963	959	963	959	271
175°	979	985	979	985	979	93
180°	985	985	985	985	985	



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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°	20.4	20.3	20.2	20.2	20.1	19.5	18.6	17.6	16.6	15.6	14.3
95°	21.4	21.2	21.0	20.9	20.7	20.2	19.1	18.2	17.2	16.2	16.0
97.5°	20.6	20.5	20.3	20.2	20.0	19.9	19.8	19.7	19.5	19.4	37.7
100°	20.6	20.5	20.3	20.2	20.0	21.3	24.0	26.9	29.6	32.4	55.0
102.5°	21.2	21.2	21.1	21.1	21.1	36.1	66.2	96.1	126.2	156.3	159.2
105°	210.0	215.9	221.8	227.7	233.7	235.8	234.3	232.9	231.4	229.9	229.1
107.5°	292.8	292.1	291.4	290.9	290.2	289.5	288.8	288.1	287.4	286.7	285.6
110°	328.7	328.2	327.7	327.3	326.7	326.3	326.0	325.6	325.4	325.0	324.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	364.7	364.0	363.4	362.8	362.1	361.8	361.9	362.0	362.1	362.1	361.7
115°	417.2	417.2	417.2	417.2	417.2	417.0	416.6	416.3	415.9	415.7	415.8
117.5°	470.5	470.5	470.6	470.7	470.7	470.8	470.9	470.9	471.0	471.1	470.7
120°	504.1	504.4	504.7	505.1	505.4	505.4	505.1	504.7	504.4	504.1	504.3
122.5°	537.1	537.4	537.7	538.1	538.4	538.5	538.3	538.1	537.9	537.7	537.4
125°	586.6	586.4	586.3	586.2	586.0	585.6	585.1	584.7	584.2	583.7	584.0
127.5°	630.1	630.3	630.4	630.5	630.7	630.7	630.8	630.9	631.0	631.1	630.4
130°	659.6	659.6	659.6	659.6	659.6	659.5	659.3	659.2	659.0	658.8	658.4
132.5°	686.7	686.8	686.9	687.1	687.2	687.2	687.0	686.9	686.7	686.5	685.9
135°	727.4	727.1	726.7	726.4	726.0	725.8	725.4	725.1	724.7	724.4	723.8
137.5°	762.1	762.2	762.3	762.4	762.5	762.4	762.0	761.7	761.4	761.0	760.3
140°	786.4	786.2	786.0	785.9	785.7	785.3	784.9	784.4	783.9	783.3	783.1
142.5°	806.3	806.3	806.3	806.3	806.3	806.1	805.7	805.3	805.0	804.6	804.5
145°	837.2	836.9	836.5	836.2	835.8	835.7	835.5	835.3	835.2	835.0	835.0
147.5°	862.7	862.5	862.3	862.2	862.0	861.9	861.8	861.7	861.5	861.4	861.5
150°	879.2	879.0	878.8	878.7	878.5	878.4	878.4	878.4	878.4	878.4	878.6
152.5°	893.3	893.4	893.5	893.6	893.7	893.6	893.4	893.2	892.9	892.6	892.9
155°	912.4	912.9	913.3	913.8	914.4	914.3	913.6	912.9	912.3	911.6	912.1
157.5°	928.3	929.2	930.0	930.9	931.7	931.7	930.9	930.0	929.2	928.3	928.9
160°	938.9	939.9	940.8	941.9	942.8	942.8	941.9	940.8	939.9	938.9	939.1
162.5°	947.2	948.3	949.3	950.5	951.6	951.7	950.6	949.7	948.8	947.7	947.9
165°	958.8	960.3	961.8	963.2	964.7	964.8	963.5	962.1	960.8	959.5	959.5
167.5°	967.5	969.1	970.7	972.4	974.0	974.1	972.7	971.3	969.8	968.4	968.5
170°	972.8	974.4	976.1	977.7	979.3	979.5	978.2	976.9	975.5	974.3	974.1
172.5°	975.7	977.5	979.3	981.1	982.8	983.1	981.8	980.4	979.1	977.8	977.6
175°	979.4	981.4	983.4	985.3	987.3	987.5	986.1	984.6	983.1	981.7	981.5
177.5°	981.8	983.4	985.0	986.5	988.1	988.4	987.3	986.3	985.1	984.1	983.9
180°	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3



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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°	13.0	11.7	10.4	9.7	9.6	9.5	9.4	9.3	9.4	9.5	9.6
95°	15.9	15.7	15.6	18.3	23.8	29.4	35.0	40.5	35.0	29.4	23.8
97.5°	56.0	74.3	92.6	100.0	96.5	93.0	89.5	86.1	89.5	93.0	96.5
100°	77.7	100.2	122.8	132.6	129.7	126.8	123.9	120.8	123.9	126.8	129.7
102.5°	162.1	165.0	168.1	168.4	166.3	164.1	161.9	159.8	161.9	164.1	166.3
105°	228.3	227.4	226.7	225.7	224.8	223.8	222.8	221.8	222.8	223.8	224.8
107.5°	284.5	283.3	282.2	281.4	281.0	280.4	279.9	279.5	279.9	280.4	281.0
110°	323.0	322.1	321.0	320.4	319.8	319.3	318.9	318.4	318.9	319.3	319.8



TEST NUMBER: P332553-830

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

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	361.2	360.8	360.3	359.7	358.7	357.9	356.9	356.1	356.9	357.9	358.7
115°	415.9	416.1	416.3	416.1	415.7	415.2	414.6	414.2	414.6	415.2	415.7
117.5°	470.3	470.0	469.7	469.1	468.4	467.8	467.1	466.5	467.1	467.8	468.4
120°	504.4	504.5	504.7	504.4	503.9	503.2	502.6	501.9	502.6	503.2	503.9
122.5°	537.2	537.0	536.8	536.5	536.0	535.6	535.3	534.9	535.3	535.6	536.0
125°	584.4	584.7	584.9	584.8	584.2	583.5	582.9	582.2	582.9	583.5	584.2
127.5°	629.6	628.9	628.1	627.6	627.5	627.4	627.2	627.0	627.2	627.4	627.5
130°	657.9	657.3	656.9	656.6	656.4	656.2	656.1	655.9	656.1	656.2	656.4
132.5°	685.3	684.7	684.1	683.6	683.3	683.1	682.7	682.4	682.7	683.1	683.3
135°	723.1	722.5	721.8	721.6	721.7	721.9	722.1	722.3	722.1	721.9	721.7
137.5°	759.6	758.8	758.1	757.7	757.6	757.6	757.5	757.4	757.5	757.6	757.6
140°	782.8	782.4	782.1	781.7	781.5	781.1	780.8	780.4	780.8	781.1	781.5
142.5°	804.3	804.0	803.8	803.4	802.9	802.3	801.6	801.1	801.6	802.3	802.9
145°	835.0	835.0	835.0	834.7	834.2	833.8	833.3	832.7	833.3	833.8	834.2
147.5°	861.7	861.9	862.0	861.7	860.7	859.8	858.9	858.0	858.9	859.8	860.7
150°	878.8	878.9	879.1	878.8	878.3	877.6	876.9	876.3	876.9	877.6	878.3
152.5°	893.2	893.5	893.8	893.7	893.2	892.6	892.1	891.6	892.1	892.6	893.2
155°	912.6	913.1	913.6	913.8	913.6	913.4	913.2	913.1	913.2	913.4	913.6
157.5°	929.4	929.9	930.5	930.9	930.9	931.0	931.1	931.2	931.1	931.0	930.9
160°	939.2	939.4	939.5	939.9	940.4	940.8	941.3	941.9	941.3	940.8	940.4
162.5°	948.1	948.2	948.4	948.8	949.4	950.0	950.6	951.3	950.6	950.0	949.4
165°	959.5	959.5	959.5	960.0	960.7	961.6	962.4	963.2	962.4	961.6	960.7
167.5°	968.6	968.7	968.7	969.2	970.1	970.9	971.8	972.6	971.8	970.9	970.1
170°	973.9	973.7	973.6	974.0	975.0	976.0	976.9	978.0	976.9	976.0	975.0
172.5°	977.5	977.3	977.1	977.6	978.5	979.5	980.5	981.5	980.5	979.5	978.5
175°	981.3	981.2	981.0	981.4	982.4	983.4	984.3	985.3	984.3	983.4	982.4
177.5°	983.6	983.4	983.1	983.4	984.3	985.2	986.2	987.1	986.2	985.2	984.3
180°	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3



TEST NUMBER: P332553-830

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

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°	9.7	10.4	11.7	13.0	14.3	15.6	16.6	17.6	18.6	19.5	20.1
95°	18.3	15.6	15.7	15.9	16.0	16.2	17.2	18.2	19.1	20.2	20.7
97.5°	100.0	92.6	74.3	56.0	37.7	19.4	19.5	19.7	19.8	19.9	20.0
100°	132.6	122.8	100.2	77.7	55.0	32.4	29.6	26.9	24.0	21.3	20.0
102.5°	168.4	168.1	165.0	162.1	159.2	156.3	126.2	96.1	66.2	36.1	21.1
105°	225.7	226.7	227.4	228.3	229.1	229.9	231.4	232.9	234.3	235.8	233.7
107.5°	281.4	282.2	283.3	284.5	285.6	286.7	287.4	288.1	288.8	289.5	290.2
110°	320.4	321.0	322.1	323.0	324.0	325.0	325.4	325.6	326.0	326.3	326.7



TEST NUMBER: P332553-830

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

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	359.7	360.3	360.8	361.2	361.7	362.1	362.1	362.0	361.9	361.8	362.1
115°	416.1	416.3	416.1	415.9	415.8	415.7	415.9	416.3	416.6	417.0	417.2
117.5°	469.1	469.7	470.0	470.3	470.7	471.1	471.0	470.9	470.9	470.8	470.7
120°	504.4	504.7	504.5	504.4	504.3	504.1	504.4	504.7	505.1	505.4	505.4
122.5°	536.5	536.8	537.0	537.2	537.4	537.7	537.9	538.1	538.3	538.5	538.4
125°	584.8	584.9	584.7	584.4	584.0	583.7	584.2	584.7	585.1	585.6	586.0
127.5°	627.6	628.1	628.9	629.6	630.4	631.1	631.0	630.9	630.8	630.7	630.7
130°	656.6	656.9	657.3	657.9	658.4	658.8	659.0	659.2	659.3	659.5	659.6
132.5°	683.6	684.1	684.7	685.3	685.9	686.5	686.7	686.9	687.0	687.2	687.2
135°	721.6	721.8	722.5	723.1	723.8	724.4	724.7	725.1	725.4	725.8	726.0
137.5°	757.7	758.1	758.8	759.6	760.3	761.0	761.4	761.7	762.0	762.4	762.5
140°	781.7	782.1	782.4	782.8	783.1	783.3	783.9	784.4	784.9	785.3	785.7
142.5°	803.4	803.8	804.0	804.3	804.5	804.6	805.0	805.3	805.7	806.1	806.3
145°	834.7	835.0	835.0	835.0	835.0	835.0	835.2	835.3	835.5	835.7	835.8
147.5°	861.7	862.0	861.9	861.7	861.5	861.4	861.5	861.7	861.8	861.9	862.0
150°	878.8	879.1	878.9	878.8	878.6	878.4	878.4	878.4	878.4	878.4	878.5
152.5°	893.7	893.8	893.5	893.2	892.9	892.6	892.9	893.2	893.4	893.6	893.7
155°	913.8	913.6	913.1	912.6	912.1	911.6	912.3	912.9	913.6	914.3	914.4
157.5°	930.9	930.5	929.9	929.4	928.9	928.3	929.2	930.0	930.9	931.7	931.7
160°	939.9	939.5	939.4	939.2	939.1	938.9	939.9	940.8	941.9	942.8	942.8
162.5°	948.8	948.4	948.2	948.1	947.9	947.7	948.8	949.7	950.6	951.7	951.6
165°	960.0	959.5	959.5	959.5	959.5	959.5	960.8	962.1	963.5	964.8	964.7
167.5°	969.2	968.7	968.7	968.6	968.5	968.4	969.8	971.3	972.7	974.1	974.0
170°	974.0	973.6	973.7	973.9	974.1	974.3	975.5	976.9	978.2	979.5	979.3
172.5°	977.6	977.1	977.3	977.5	977.6	977.8	979.1	980.4	981.8	983.1	982.8
175°	981.4	981.0	981.2	981.3	981.5	981.7	983.1	984.6	986.1	987.5	987.3
177.5°	983.4	983.1	983.4	983.6	983.9	984.1	985.1	986.3	987.3	988.4	988.1
180°	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3



TEST NUMBER: P332553-830

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

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°	20.2	20.2	20.3	20.4	20.3	20.2	20.2	20.1	19.5	18.6	17.6
95°	20.9	21.0	21.2	21.4	21.2	21.0	20.9	20.7	20.2	19.1	18.2
97.5°	20.2	20.3	20.5	20.6	20.5	20.3	20.2	20.0	19.9	19.8	19.7
100°	20.2	20.3	20.5	20.6	20.5	20.3	20.2	20.0	21.3	24.0	26.9
102.5°	21.1	21.1	21.2	21.2	21.2	21.1	21.1	21.1	36.1	66.2	96.1
105°	227.7	221.8	215.9	210.0	215.9	221.8	227.7	233.7	235.8	234.3	232.9
107.5°	290.9	291.4	292.1	292.8	292.1	291.4	290.9	290.2	289.5	288.8	288.1
110°	327.3	327.7	328.2	328.7	328.2	327.7	327.3	326.7	326.3	326.0	325.6



TEST NUMBER: P332553-830

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

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	362.8	363.4	364.0	364.7	364.0	363.4	362.8	362.1	361.8	361.9	362.0
115°	417.2	417.2	417.2	417.2	417.2	417.2	417.2	417.2	417.0	416.6	416.3
117.5°	470.7	470.6	470.5	470.5	470.5	470.6	470.7	470.7	470.8	470.9	470.9
120°	505.1	504.7	504.4	504.1	504.4	504.7	505.1	505.4	505.4	505.1	504.7
122.5°	538.1	537.7	537.4	537.1	537.4	537.7	538.1	538.4	538.5	538.3	538.1
125°	586.2	586.3	586.4	586.6	586.4	586.3	586.2	586.0	585.6	585.1	584.7
127.5°	630.5	630.4	630.3	630.1	630.3	630.4	630.5	630.7	630.7	630.8	630.9
130°	659.6	659.6	659.6	659.6	659.6	659.6	659.6	659.6	659.5	659.3	659.2
132.5°	687.1	686.9	686.8	686.7	686.8	686.9	687.1	687.2	687.2	687.0	686.9
135°	726.4	726.7	727.1	727.4	727.1	726.7	726.4	726.0	725.8	725.4	725.1
137.5°	762.4	762.3	762.2	762.1	762.2	762.3	762.4	762.5	762.4	762.0	761.7
140°	785.9	786.0	786.2	786.4	786.2	786.0	785.9	785.7	785.3	784.9	784.4
142.5°	806.3	806.3	806.3	806.3	806.3	806.3	806.3	806.3	806.1	805.7	805.3
145°	836.2	836.5	836.9	837.2	836.9	836.5	836.2	835.8	835.7	835.5	835.3
147.5°	862.2	862.3	862.5	862.7	862.5	862.3	862.2	862.0	861.9	861.8	861.7
150°	878.7	878.8	879.0	879.2	879.0	878.8	878.7	878.5	878.4	878.4	878.4
152.5°	893.6	893.5	893.4	893.3	893.4	893.5	893.6	893.7	893.6	893.4	893.2
155°	913.8	913.3	912.9	912.4	912.9	913.3	913.8	914.4	914.3	913.6	912.9
157.5°	930.9	930.0	929.2	928.3	929.2	930.0	930.9	931.7	931.7	930.9	930.0
160°	941.9	940.8	939.9	938.9	939.9	940.8	941.9	942.8	942.8	941.9	940.8
162.5°	950.5	949.3	948.3	947.2	948.3	949.3	950.5	951.6	951.7	950.6	949.7
165°	963.2	961.8	960.3	958.8	960.3	961.8	963.2	964.7	964.8	963.5	962.1
167.5°	972.4	970.7	969.1	967.5	969.1	970.7	972.4	974.0	974.1	972.7	971.3
170°	977.7	976.1	974.4	972.8	974.4	976.1	977.7	979.3	979.5	978.2	976.9
172.5°	981.1	979.3	977.5	975.7	977.5	979.3	981.1	982.8	983.1	981.8	980.4
175°	985.3	983.4	981.4	979.4	981.4	983.4	985.3	987.3	987.5	986.1	984.6
177.5°	986.5	985.0	983.4	981.8	983.4	985.0	986.5	988.1	988.4	987.3	986.3
180°	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3



TEST NUMBER: P332553-830

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

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°	16.6	15.6	14.3	13.0	11.7	10.4	9.7	9.6	9.5	9.4	9.3
95°	17.2	16.2	16.0	15.9	15.7	15.6	18.3	23.8	29.4	35.0	40.5
97.5°	19.5	19.4	37.7	56.0	74.3	92.6	100.0	96.5	93.0	89.5	86.1
100°	29.6	32.4	55.0	77.7	100.2	122.8	132.6	129.7	126.8	123.9	120.8
102.5°	126.2	156.3	159.2	162.1	165.0	168.1	168.4	166.3	164.1	161.9	159.8
105°	231.4	229.9	229.1	228.3	227.4	226.7	225.7	224.8	223.8	222.8	221.8
107.5°	287.4	286.7	285.6	284.5	283.3	282.2	281.4	281.0	280.4	279.9	279.5
110°	325.4	325.0	324.0	323.0	322.1	321.0	320.4	319.8	319.3	318.9	318.4



TEST NUMBER: P332553-830

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

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	362.1	362.1	361.7	361.2	360.8	360.3	359.7	358.7	357.9	356.9	356.1
115°	415.9	415.7	415.8	415.9	416.1	416.3	416.1	415.7	415.2	414.6	414.2
117.5°	471.0	471.1	470.7	470.3	470.0	469.7	469.1	468.4	467.8	467.1	466.5
120°	504.4	504.1	504.3	504.4	504.5	504.7	504.4	503.9	503.2	502.6	501.9
122.5°	537.9	537.7	537.4	537.2	537.0	536.8	536.5	536.0	535.6	535.3	534.9
125°	584.2	583.7	584.0	584.4	584.7	584.9	584.8	584.2	583.5	582.9	582.2
127.5°	631.0	631.1	630.4	629.6	628.9	628.1	627.6	627.5	627.4	627.2	627.0
130°	659.0	658.8	658.4	657.9	657.3	656.9	656.6	656.4	656.2	656.1	655.9
132.5°	686.7	686.5	685.9	685.3	684.7	684.1	683.6	683.3	683.1	682.7	682.4
135°	724.7	724.4	723.8	723.1	722.5	721.8	721.6	721.7	721.9	722.1	722.3
137.5°	761.4	761.0	760.3	759.6	758.8	758.1	757.7	757.6	757.6	757.5	757.4
140°	783.9	783.3	783.1	782.8	782.4	782.1	781.7	781.5	781.1	780.8	780.4
142.5°	805.0	804.6	804.5	804.3	804.0	803.8	803.4	802.9	802.3	801.6	801.1
145°	835.2	835.0	835.0	835.0	835.0	835.0	834.7	834.2	833.8	833.3	832.7
147.5°	861.5	861.4	861.5	861.7	861.9	862.0	861.7	860.7	859.8	858.9	858.0
150°	878.4	878.4	878.6	878.8	878.9	879.1	878.8	878.3	877.6	876.9	876.3
152.5°	892.9	892.6	892.9	893.2	893.5	893.8	893.7	893.2	892.6	892.1	891.6
155°	912.3	911.6	912.1	912.6	913.1	913.6	913.8	913.6	913.4	913.2	913.1
157.5°	929.2	928.3	928.9	929.4	929.9	930.5	930.9	930.9	931.0	931.1	931.2
160°	939.9	938.9	939.1	939.2	939.4	939.5	939.9	940.4	940.8	941.3	941.9
162.5°	948.8	947.7	947.9	948.1	948.2	948.4	948.8	949.4	950.0	950.6	951.3
165°	960.8	959.5	959.5	959.5	959.5	959.5	960.0	960.7	961.6	962.4	963.2
167.5°	969.8	968.4	968.5	968.6	968.7	968.7	969.2	970.1	970.9	971.8	972.6
170°	975.5	974.3	974.1	973.9	973.7	973.6	974.0	975.0	976.0	976.9	978.0
172.5°	979.1	977.8	977.6	977.5	977.3	977.1	977.6	978.5	979.5	980.5	981.5
175°	983.1	981.7	981.5	981.3	981.2	981.0	981.4	982.4	983.4	984.3	985.3
177.5°	985.1	984.1	983.9	983.6	983.4	983.1	983.4	984.3	985.2	986.2	987.1
180°	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3



TEST NUMBER: P332553-830

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

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°	9.4	9.5	9.6	9.7	10.4	11.7	13.0	14.3	15.6	16.6	17.6
95°	35.0	29.4	23.8	18.3	15.6	15.7	15.9	16.0	16.2	17.2	18.2
97.5°	89.5	93.0	96.5	100.0	92.6	74.3	56.0	37.7	19.4	19.5	19.7
100°	123.9	126.8	129.7	132.6	122.8	100.2	77.7	55.0	32.4	29.6	26.9
102.5°	161.9	164.1	166.3	168.4	168.1	165.0	162.1	159.2	156.3	126.2	96.1
105°	222.8	223.8	224.8	225.7	226.7	227.4	228.3	229.1	229.9	231.4	232.9
107.5°	279.9	280.4	281.0	281.4	282.2	283.3	284.5	285.6	286.7	287.4	288.1
110°	318.9	319.3	319.8	320.4	321.0	322.1	323.0	324.0	325.0	325.4	325.6



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	356.9	357.9	358.7	359.7	360.3	360.8	361.2	361.7	362.1	362.1	362.0
115°	414.6	415.2	415.7	416.1	416.3	416.1	415.9	415.8	415.7	415.9	416.3
117.5°	467.1	467.8	468.4	469.1	469.7	470.0	470.3	470.7	471.1	471.0	470.9
120°	502.6	503.2	503.9	504.4	504.7	504.5	504.4	504.3	504.1	504.4	504.7
122.5°	535.3	535.6	536.0	536.5	536.8	537.0	537.2	537.4	537.7	537.9	538.1
125°	582.9	583.5	584.2	584.8	584.9	584.7	584.4	584.0	583.7	584.2	584.7
127.5°	627.2	627.4	627.5	627.6	628.1	628.9	629.6	630.4	631.1	631.0	630.9
130°	656.1	656.2	656.4	656.6	656.9	657.3	657.9	658.4	658.8	659.0	659.2
132.5°	682.7	683.1	683.3	683.6	684.1	684.7	685.3	685.9	686.5	686.7	686.9
135°	722.1	721.9	721.7	721.6	721.8	722.5	723.1	723.8	724.4	724.7	725.1
137.5°	757.5	757.6	757.6	757.7	758.1	758.8	759.6	760.3	761.0	761.4	761.7
140°	780.8	781.1	781.5	781.7	782.1	782.4	782.8	783.1	783.3	783.9	784.4
142.5°	801.6	802.3	802.9	803.4	803.8	804.0	804.3	804.5	804.6	805.0	805.3
145°	833.3	833.8	834.2	834.7	835.0	835.0	835.0	835.0	835.0	835.2	835.3
147.5°	858.9	859.8	860.7	861.7	862.0	861.9	861.7	861.5	861.4	861.5	861.7
150°	876.9	877.6	878.3	878.8	879.1	878.9	878.8	878.6	878.4	878.4	878.4
152.5°	892.1	892.6	893.2	893.7	893.8	893.5	893.2	892.9	892.6	892.9	893.2
155°	913.2	913.4	913.6	913.8	913.6	913.1	912.6	912.1	911.6	912.3	912.9
157.5°	931.1	931.0	930.9	930.9	930.5	929.9	929.4	928.9	928.3	929.2	930.0
160°	941.3	940.8	940.4	939.9	939.5	939.4	939.2	939.1	938.9	939.9	940.8
162.5°	950.6	950.0	949.4	948.8	948.4	948.2	948.1	947.9	947.7	948.8	949.7
165°	962.4	961.6	960.7	960.0	959.5	959.5	959.5	959.5	959.5	960.8	962.1
167.5°	971.8	970.9	970.1	969.2	968.7	968.7	968.6	968.5	968.4	969.8	971.3
170°	976.9	976.0	975.0	974.0	973.6	973.7	973.9	974.1	974.3	975.5	976.9
172.5°	980.5	979.5	978.5	977.6	977.1	977.3	977.5	977.6	977.8	979.1	980.4
175°	984.3	983.4	982.4	981.4	981.0	981.2	981.3	981.5	981.7	983.1	984.6
177.5°	986.2	985.2	984.3	983.4	983.1	983.4	983.6	983.9	984.1	985.1	986.3
180°	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3



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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°	18.6	19.5	20.1	20.2	20.2	20.3	20.4
95°	19.1	20.2	20.7	20.9	21.0	21.2	21.4
97.5°	19.8	19.9	20.0	20.2	20.3	20.5	20.6
100°	24.0	21.3	20.0	20.2	20.3	20.5	20.6
102.5°	66.2	36.1	21.1	21.1	21.1	21.2	21.2
105°	234.3	235.8	233.7	227.7	221.8	215.9	210.0
107.5°	288.8	289.5	290.2	290.9	291.4	292.1	292.8
110°	326.0	326.3	326.7	327.3	327.7	328.2	328.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	361.9	361.8	362.1	362.8	363.4	364.0	364.7
115°	416.6	417.0	417.2	417.2	417.2	417.2	417.2
117.5°	470.9	470.8	470.7	470.7	470.6	470.5	470.5
120°	505.1	505.4	505.4	505.1	504.7	504.4	504.1
122.5°	538.3	538.5	538.4	538.1	537.7	537.4	537.1
125°	585.1	585.6	586.0	586.2	586.3	586.4	586.6
127.5°	630.8	630.7	630.7	630.5	630.4	630.3	630.1
130°	659.3	659.5	659.6	659.6	659.6	659.6	659.6
132.5°	687.0	687.2	687.2	687.1	686.9	686.8	686.7
135°	725.4	725.8	726.0	726.4	726.7	727.1	727.4
137.5°	762.0	762.4	762.5	762.4	762.3	762.2	762.1
140°	784.9	785.3	785.7	785.9	786.0	786.2	786.4
142.5°	805.7	806.1	806.3	806.3	806.3	806.3	806.3
145°	835.5	835.7	835.8	836.2	836.5	836.9	837.2
147.5°	861.8	861.9	862.0	862.2	862.3	862.5	862.7
150°	878.4	878.4	878.5	878.7	878.8	879.0	879.2
152.5°	893.4	893.6	893.7	893.6	893.5	893.4	893.3
155°	913.6	914.3	914.4	913.8	913.3	912.9	912.4
157.5°	930.9	931.7	931.7	930.9	930.0	929.2	928.3
160°	941.9	942.8	942.8	941.9	940.8	939.9	938.9
162.5°	950.6	951.7	951.6	950.5	949.3	948.3	947.2
165°	963.5	964.8	964.7	963.2	961.8	960.3	958.8
167.5°	972.7	974.1	974.0	972.4	970.7	969.1	967.5
170°	978.2	979.5	979.3	977.7	976.1	974.4	972.8
172.5°	981.8	983.1	982.8	981.1	979.3	977.5	975.7
175°	986.1	987.5	987.3	985.3	983.4	981.4	979.4
177.5°	987.3	988.4	988.1	986.5	985.0	983.4	981.8
180°	985.3	985.3	985.3	985.3	985.3	985.3	985.3

(END OF REPORT)