

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: P332903-830

Luminaire Tested: **SA4XXRDIP-C575D590U830-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332903-830
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: SA4XXRDIP-C575D590U830-4F0-1E-UDD-A4
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 575 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 590 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

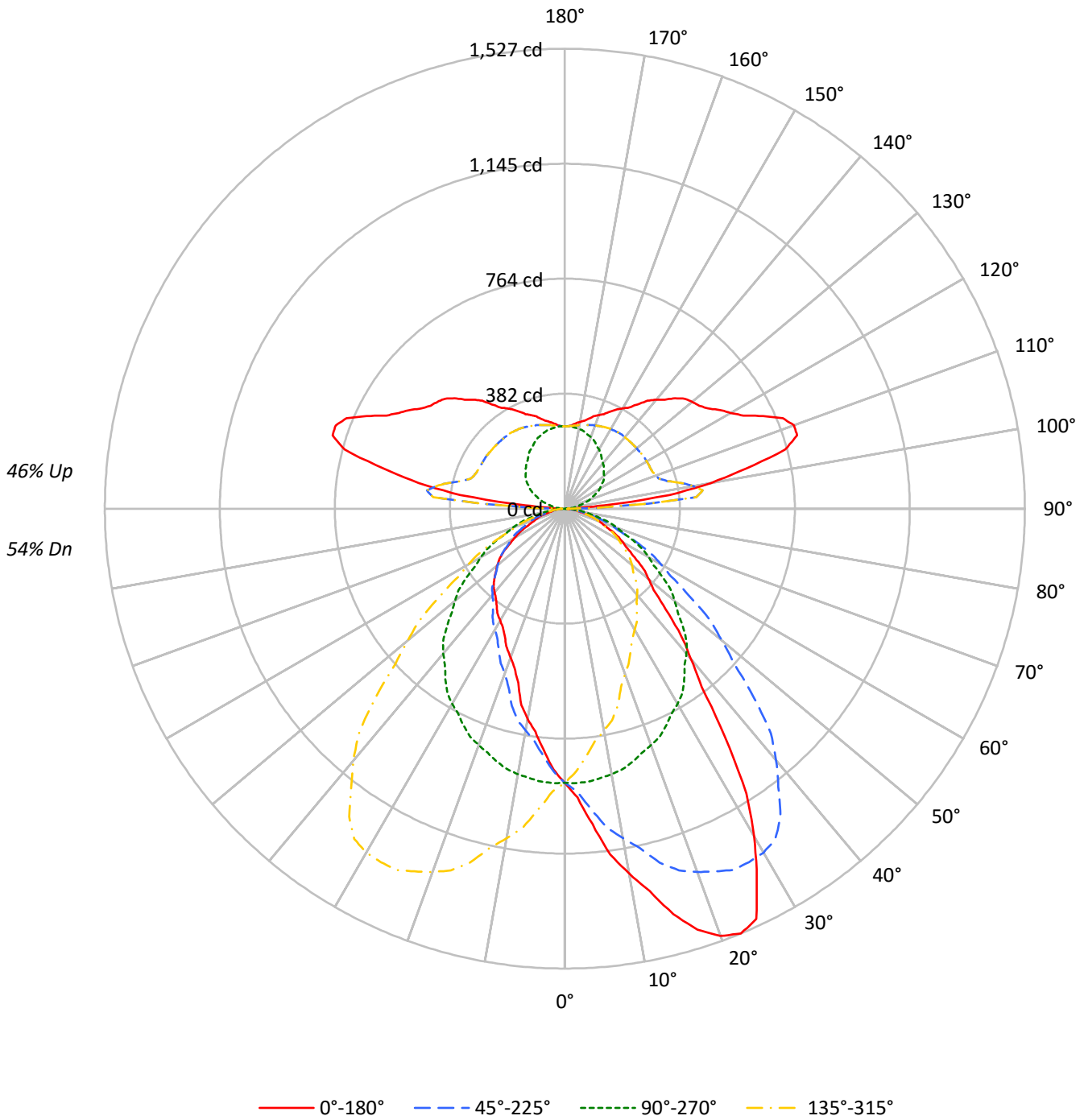
Lumens per Lamp: N/A
Luminaire Lumens: 4292.7 lumens
Efficiency: N/A
Efficacy: 130.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59	54
1	99	95	91	88	92	88	85	82	76	73	71	64	62	61	53	52	51	46
2	91	83	78	73	84	78	73	68	67	63	60	57	54	52	48	46	44	39
3	83	74	67	61	77	69	63	58	59	55	51	51	47	44	43	40	38	34
4	76	66	58	52	70	61	54	49	53	48	44	45	41	38	38	35	33	30
5	70	59	51	45	65	55	48	43	48	42	38	41	37	33	35	32	29	26
6	65	53	45	39	60	49	42	37	43	37	33	37	33	29	32	28	26	23
7	60	48	40	34	55	45	38	33	39	34	29	34	29	26	29	26	23	20
8	56	43	36	31	52	41	34	29	36	30	26	31	27	23	27	23	21	18
9	52	40	32	27	48	37	31	26	33	27	24	29	24	21	25	21	19	17
10	48	37	29	25	45	34	28	24	30	25	21	26	22	19	23	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7348	7348	7348	7348
5°	8524	7370	6515	7370
10°	10083	7338	5814	7338
15°	11646	7270	4996	7270
20°	12968	7177	4517	7177
25°	13387	7085	4195	7085
30°	11719	6974	3999	6974
35°	9122	6809	3882	6809
40°	6841	6620	3818	6620
45°	5401	6318	3785	6318
50°	4560	5968	3676	5968
55°	3975	5585	3478	5585
60°	3576	5186	3079	5186
65°	3152	4756	2648	4756
70°	2840	4312	2389	4312
75°	2380	3821	2037	3821
80°	2013	3254	1911	3254
85°	1704	2547	1704	2547



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.2	2.1
10°-20°	266.0	6.2
20°-30°	416.1	9.7
30°-40°	462.6	10.8
40°-50°	410.4	9.6
50°-60°	319.8	7.4
60°-70°	209.4	4.9
70°-80°	103.0	2.4
80°-90°	26.9	0.6
90°-100°	197.7	4.6
100°-110°	411.4	9.6
110°-120°	368.5	8.6
120°-130°	310.0	7.2
130°-140°	258.4	6.0
140°-150°	197.4	4.6
150°-160°	138.8	3.2
160°-170°	81.6	1.9
170°-180°	26.6	0.6
0°-30°	770.3	17.9
0°-40°	1232.9	28.7
0°-60°	1963.1	45.7
0°-90°	2302.3	53.6
90°-120°	977.6	22.8
90°-150°	1743.4	40.6
90°-180°	1990.0	46.4
0°-180°	4292.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	910	910	910	910	910	
5°	1052	910	804	910	1052	106
15°	1394	870	598	870	1394	396
25°	1503	795	471	795	1503	667
35°	926	691	394	691	926	580
45°	473	553	332	553	473	375
55°	282	397	247	397	282	257
65°	165	249	139	249	165	166
75°	76	122	65	122	76	84
85°	18	28	18	28	18	21
90°	11	1	11	1	11	10
95°	131	18	131	18	131	204
105°	756	63	756	63	756	748
115°	726	111	726	111	726	721
125°	580	154	580	154	580	527
135°	518	183	518	183	518	400
145°	423	211	423	211	423	268
155°	354	240	354	240	354	165
165°	309	262	309	262	309	89
175°	278	273	278	273	278	27
180°	274	274	274	274	274	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	910.2	910.2	910.2	910.2	910.2	910.2	910.2	910.2	910.2	910.2	910.2
2.5°	960.1	962.7	960.1	959.8	956.9	956.0	954.8	951.0	944.0	939.8	940.8
5°	1051.8	1060.9	1055.8	1055.1	1047.0	1039.0	1033.8	1022.1	1009.6	1001.2	994.2
7.5°	1157.8	1163.1	1159.9	1154.7	1141.7	1134.3	1122.4	1106.9	1084.6	1067.4	1051.9
10°	1230.0	1234.4	1232.9	1223.4	1213.9	1194.4	1183.5	1161.8	1133.5	1111.2	1090.2
12.5°	1301.0	1305.7	1292.8	1293.3	1275.2	1259.8	1242.4	1215.2	1182.5	1153.7	1127.6
15°	1393.5	1387.7	1387.7	1380.4	1360.2	1338.9	1321.0	1292.3	1251.2	1216.8	1180.5
17.5°	1466.0	1468.1	1465.1	1447.7	1431.9	1409.9	1377.0	1343.6	1305.4	1259.1	1222.1
20°	1509.5	1509.5	1506.2	1494.4	1473.9	1450.4	1414.9	1378.6	1330.1	1283.6	1241.7
22.5°	1527.0	1528.2	1524.4	1514.7	1496.2	1473.3	1443.0	1406.1	1356.2	1303.8	1252.0
25°	1502.9	1509.8	1510.5	1508.0	1502.5	1488.6	1462.5	1424.7	1380.0	1323.1	1267.4
27.5°	1379.8	1388.6	1396.3	1408.9	1425.8	1434.6	1435.8	1416.5	1377.5	1322.9	1266.8
30°	1257.2	1264.4	1288.3	1319.5	1343.7	1365.6	1384.8	1389.9	1367.9	1318.7	1259.7
32.5°	1121.0	1131.0	1154.8	1188.4	1228.7	1265.9	1308.8	1330.6	1330.0	1300.5	1245.9
35°	925.6	932.9	955.0	990.1	1038.6	1093.9	1161.8	1214.6	1250.6	1247.9	1214.6
37.5°	746.5	754.8	777.0	806.3	853.2	921.7	987.4	1060.2	1126.6	1163.9	1152.7
40°	649.1	649.5	671.1	701.2	745.2	804.9	876.5	957.2	1031.2	1091.7	1103.4
42.5°	572.2	572.3	586.6	619.1	650.7	707.0	775.2	855.4	942.1	1011.9	1043.0
45°	473.1	476.4	488.1	507.6	532.4	580.1	634.8	709.3	806.4	889.3	941.0
47.5°	400.6	405.5	412.9	428.8	448.7	480.4	525.6	592.5	671.6	762.7	836.3
50°	363.1	363.8	373.3	382.1	399.4	424.7	464.3	520.0	592.7	680.2	762.0
52.5°	330.8	330.6	336.4	347.5	361.6	381.3	413.2	464.0	528.4	606.9	691.4
55°	282.4	284.2	288.6	297.4	308.0	322.0	347.3	385.4	436.0	503.1	579.8
57.5°	245.5	246.5	250.0	253.7	263.4	273.6	292.6	319.1	361.7	416.7	488.1
60°	221.5	221.9	223.0	228.5	236.2	245.7	258.5	280.9	316.9	367.1	423.6
62.5°	198.0	198.7	200.4	204.4	210.4	217.0	230.4	248.4	278.1	321.0	371.9
65°	165.0	165.4	168.0	169.5	174.2	180.0	189.9	202.1	222.6	258.5	297.1
67.5°	137.9	137.9	138.0	140.1	143.4	147.2	153.2	162.9	178.3	200.4	234.3
70°	120.3	120.3	121.0	122.2	123.9	127.2	130.5	137.9	149.3	167.2	193.2
72.5°	103.9	104.2	104.9	105.1	106.0	108.8	111.2	115.8	124.3	137.9	158.9
75°	76.3	77.4	79.2	80.7	82.5	82.2	84.7	87.7	90.2	98.3	110.4
77.5°	56.7	56.2	56.4	57.7	57.9	58.2	60.0	62.3	64.3	68.1	72.4
80°	43.3	43.3	44.4	44.8	44.4	44.8	46.6	47.7	48.4	49.9	53.9
82.5°	32.7	33.3	32.9	33.3	33.6	33.9	35.4	35.6	36.4	36.9	38.6
85°	18.4	18.7	19.0	18.4	18.4	18.4	19.0	19.4	20.2	19.8	20.5
87.5°	8.7	8.4	8.9	8.7	8.9	8.6	8.8	9.2	8.6	9.0	8.8
90°	11.3	11.3	11.8	11.3	10.7	10.7	10.2	9.7	9.1	9.7	8.6
92.5°	41.4	41.4	43.3	46.1	52.5	63.2	79.5	105.6	142.0	170.5	149.3
95°	131.2	138.2	147.9	164.6	190.9	243.0	315.1	398.4	450.5	438.2	330.6
97.5°	350.6	361.8	378.0	410.4	448.9	505.1	557.7	588.6	566.1	461.6	309.5
100°	493.0	497.4	513.5	546.3	593.0	632.8	659.2	648.5	570.0	432.3	280.7
102.5°	616.9	620.4	637.3	661.1	689.8	706.4	698.8	645.5	537.6	395.8	261.3
105°	756.5	759.7	767.2	771.6	770.5	748.5	695.2	602.2	479.1	352.7	244.7
107.5°	808.3	806.9	801.5	789.3	762.7	714.8	639.8	540.8	431.8	328.7	241.7
110°	809.2	804.4	794.7	772.1	734.0	674.8	596.8	503.8	408.1	320.5	242.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	783.8	776.0	762.4	735.1	691.7	632.6	558.9	476.7	394.7	316.6	245.1
115°	726.4	722.1	704.9	672.6	630.2	578.5	515.7	449.5	382.3	314.5	250.1
117.5°	668.3	664.9	647.4	620.4	584.1	540.4	490.9	436.1	376.7	314.0	255.2
120°	635.6	629.6	615.7	592.0	561.3	523.1	480.1	430.2	373.7	314.0	259.2
122.5°	609.7	603.8	592.0	571.7	545.8	512.4	473.3	425.0	370.2	313.6	263.1
125°	579.6	576.4	566.2	550.5	529.0	499.5	462.4	416.1	364.6	312.9	268.8
127.5°	561.9	558.7	550.2	536.3	514.6	486.6	449.6	405.4	356.9	311.7	273.4
130°	551.7	548.5	539.8	526.4	504.4	475.8	439.3	396.8	352.1	311.3	276.9
132.5°	540.1	536.8	528.7	513.5	491.8	463.4	427.6	387.8	347.9	310.9	279.9
135°	518.3	515.1	506.5	491.4	470.0	443.0	410.3	375.3	341.4	310.2	284.5
137.5°	491.4	487.6	480.5	465.6	445.5	421.2	393.6	364.0	335.8	310.1	287.1
140°	472.1	467.8	460.2	448.5	429.6	407.0	382.9	357.5	332.8	309.7	289.3
142.5°	451.4	448.5	441.8	430.7	414.2	394.5	373.8	351.6	330.3	309.7	291.0
145°	423.1	420.5	415.1	406.0	392.5	377.5	361.3	343.0	325.8	308.6	292.0
147.5°	398.1	397.1	393.0	385.2	375.3	363.4	350.5	336.0	321.9	306.7	292.5
150°	383.9	383.3	380.1	373.2	364.6	354.9	344.1	331.8	318.9	305.4	292.5
152.5°	371.0	370.4	368.5	362.8	355.5	347.5	337.6	327.0	315.4	303.2	291.6
155°	354.3	354.3	352.7	348.5	343.0	336.6	328.5	319.9	310.2	300.0	290.3
157.5°	339.7	339.7	338.7	335.5	331.4	326.2	319.5	312.3	305.0	296.7	289.0
160°	330.6	330.6	330.2	326.9	323.7	319.3	313.5	307.6	301.1	294.1	287.7
162.5°	322.1	322.5	322.0	318.8	316.4	312.5	307.8	302.8	297.7	291.5	286.3
165°	309.2	309.7	310.2	308.1	305.9	303.2	299.4	296.2	292.0	287.7	283.9
167.5°	299.0	299.4	299.4	298.1	297.0	295.4	292.4	289.9	286.8	283.8	281.3
170°	292.5	292.5	293.0	292.5	291.4	289.8	287.7	286.1	283.3	281.2	279.6
172.5°	286.1	286.9	287.5	286.9	286.3	285.1	283.8	282.6	280.3	278.6	277.9
175°	278.5	279.6	280.7	279.6	279.6	279.6	278.5	278.0	276.9	275.8	275.8
177.5°	274.1	274.9	275.8	275.4	275.8	275.4	275.4	274.9	274.6	274.1	274.1
180°	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	910.2	910.2	910.2	910.2	910.2	910.2	910.2	910.2	910.2	910.2	910.2
2.5°	937.8	933.7	931.6	926.9	921.3	918.4	915.8	912.0	907.0	901.7	897.9
5°	985.4	976.6	965.5	952.3	940.7	929.3	919.4	909.5	898.1	886.4	874.7
7.5°	1034.3	1016.9	998.2	976.6	955.5	936.4	918.8	901.9	882.9	865.7	850.2
10°	1068.3	1044.8	1018.8	991.3	963.7	939.9	916.4	895.1	871.7	850.8	833.2
12.5°	1095.9	1068.3	1037.0	1002.7	969.6	940.8	913.8	886.1	859.4	836.7	813.2
15°	1141.6	1103.8	1061.7	1020.6	977.7	938.5	902.1	869.9	839.4	807.6	785.1
17.5°	1173.1	1128.2	1077.0	1027.7	976.9	930.7	888.8	850.4	815.2	782.7	756.0
20°	1191.8	1142.4	1085.5	1029.4	972.5	923.0	878.0	835.4	799.1	763.9	736.4
22.5°	1202.4	1147.6	1085.5	1026.7	967.9	914.3	864.8	820.5	780.9	745.7	715.3
25°	1205.8	1147.1	1083.6	1016.2	951.7	894.8	843.5	795.4	751.4	716.2	683.9
27.5°	1201.1	1132.0	1067.1	997.8	931.2	871.3	817.4	766.9	722.8	685.0	652.0
30°	1194.0	1120.0	1050.3	978.5	911.0	853.4	796.5	748.1	702.3	663.1	629.7
32.5°	1178.8	1105.3	1030.4	956.7	888.3	829.1	775.1	726.4	681.5	641.3	605.9
35°	1148.6	1074.1	992.7	917.2	850.1	788.4	737.8	690.9	648.0	605.1	567.7
37.5°	1108.7	1032.7	951.7	869.0	801.8	743.7	697.2	653.2	611.2	572.1	530.7
40°	1071.2	1001.9	918.3	836.1	767.2	711.1	668.2	628.2	586.1	547.1	505.7
42.5°	1025.8	966.7	882.2	799.7	731.7	677.6	637.6	598.6	560.2	522.5	479.3
45°	949.8	905.1	825.9	746.7	678.1	624.5	587.9	553.4	519.6	483.7	443.0
47.5°	862.8	832.5	764.2	683.1	619.6	571.5	536.0	507.8	479.3	443.4	407.6
50°	802.4	783.0	717.0	642.9	582.4	538.0	501.7	475.2	451.5	417.0	385.0
52.5°	737.8	727.5	671.8	600.9	542.4	499.0	468.0	444.2	420.1	391.4	361.6
55°	639.6	645.1	597.8	536.5	481.5	444.9	416.6	396.8	376.3	352.0	328.9
57.5°	539.0	559.2	527.4	473.6	422.1	388.2	366.9	350.2	333.1	312.9	293.2
60°	478.9	495.8	477.9	430.6	385.4	353.9	334.1	321.2	304.0	285.7	270.6
62.5°	420.3	438.3	427.6	389.5	347.6	320.5	303.0	291.1	278.2	262.2	246.6
65°	346.6	358.3	353.2	326.8	297.1	273.9	257.8	249.0	237.2	225.6	211.6
67.5°	265.4	288.1	285.1	271.1	245.4	227.3	216.8	209.1	198.3	189.6	180.1
70°	218.2	239.1	238.7	227.3	213.4	196.5	189.3	182.7	173.1	164.7	156.9
72.5°	178.6	197.7	200.6	191.9	182.4	169.6	162.5	158.0	148.7	143.0	136.7
75°	125.1	139.0	142.7	142.7	138.3	131.7	125.5	122.5	115.8	110.7	107.1
77.5°	82.0	90.8	96.5	97.8	98.5	96.3	91.1	89.1	84.1	82.2	78.7
80°	58.0	63.8	70.4	72.6	74.5	73.7	71.5	70.0	65.3	63.4	62.0
82.5°	40.1	43.3	48.7	53.5	53.1	55.0	53.1	51.8	48.3	47.6	46.1
85°	20.9	21.3	22.0	25.3	27.1	27.9	28.3	27.5	26.4	26.4	23.8
87.5°	8.6	8.3	8.2	8.2	8.4	9.4	10.0	10.1	9.4	8.9	8.1
90°	7.5	7.5	4.3	4.3	3.8	3.2	1.6	0.6	1.6	3.2	3.8
92.5°	108.6	66.9	39.6	28.4	20.5	13.9	9.0	6.1	9.0	13.9	20.5
95°	202.2	114.0	67.2	44.6	31.8	24.7	19.3	17.7	19.3	24.7	31.8
97.5°	181.7	109.0	73.0	54.0	42.9	36.5	31.9	31.9	31.9	36.5	42.9
100°	171.0	110.2	78.5	61.3	51.1	44.6	40.9	40.9	40.9	44.6	51.1
102.5°	168.0	114.5	85.8	69.5	59.7	53.6	50.3	49.5	50.3	53.6	59.7
105°	169.4	124.7	99.0	83.3	73.7	67.2	64.6	62.9	64.6	67.2	73.7
107.5°	177.3	136.7	113.0	97.6	88.4	81.5	78.8	77.8	78.8	81.5	88.4
110°	183.3	145.7	122.1	107.5	97.8	91.4	88.7	87.7	88.7	91.4	97.8



TEST NUMBER: P332903-830

CATALOG NUMBER: SA4XXRDIP-C575D590U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	189.8	154.3	131.5	117.0	107.4	101.3	98.2	97.1	98.2	101.3	107.4
115°	200.0	167.8	146.3	131.8	121.5	116.1	112.4	110.7	112.4	116.1	121.5
117.5°	210.5	180.8	160.3	145.2	135.7	129.8	126.5	125.0	126.5	129.8	135.7
120°	217.7	189.8	169.4	154.3	145.2	139.2	135.5	134.4	135.5	139.2	145.2
122.5°	224.6	198.4	178.0	163.3	153.4	147.9	144.1	143.0	144.1	147.9	153.4
125°	235.0	210.2	190.9	175.8	165.6	159.7	156.5	154.3	156.5	159.7	165.6
127.5°	243.9	221.2	202.5	187.3	176.6	169.9	166.1	164.3	166.1	169.9	176.6
130°	249.5	228.5	210.2	194.6	184.5	176.3	172.0	169.9	172.0	176.3	184.5
132.5°	255.1	234.5	216.2	201.5	190.5	182.9	177.2	175.5	177.2	182.9	190.5
135°	262.4	243.0	225.3	211.3	200.0	190.9	185.5	183.3	185.5	190.9	200.0
137.5°	267.6	249.5	232.9	219.6	207.8	199.2	193.2	191.2	193.2	199.2	207.8
140°	271.0	253.8	237.6	224.7	213.5	204.3	198.4	196.8	198.4	204.3	213.5
142.5°	273.5	257.7	242.0	229.5	218.6	209.9	204.4	202.8	204.4	209.9	218.6
145°	276.4	261.8	247.9	236.0	225.8	218.3	212.9	211.3	212.9	218.3	225.8
147.5°	278.8	266.2	253.1	242.4	233.8	226.1	221.4	220.8	221.4	226.1	233.8
150°	280.1	268.3	256.5	246.3	238.2	231.8	227.4	226.9	227.4	231.8	238.2
152.5°	281.0	270.0	259.5	250.2	242.9	236.9	232.6	232.5	232.6	236.9	242.9
155°	281.7	272.6	263.4	255.4	249.5	244.1	240.9	240.3	240.9	244.1	249.5
157.5°	281.7	274.5	266.6	260.3	255.1	251.0	248.0	248.0	248.0	251.0	255.1
160°	281.7	275.3	268.8	262.9	258.6	254.9	252.7	252.7	252.7	254.9	258.6
162.5°	281.7	276.2	270.1	265.5	261.6	258.3	256.6	257.0	256.6	258.3	261.6
165°	280.7	276.4	271.5	268.3	265.6	262.9	261.8	261.8	261.8	262.9	265.6
167.5°	279.4	276.3	272.7	270.2	268.7	266.6	266.2	266.6	266.2	266.6	268.7
170°	278.5	275.8	273.1	271.5	270.4	268.8	268.3	268.8	268.3	268.8	270.4
172.5°	277.7	275.4	273.5	272.4	271.7	270.5	270.4	271.0	270.4	270.5	271.7
175°	276.4	274.8	273.7	273.7	273.1	272.6	272.6	273.1	272.6	272.6	273.1
177.5°	274.9	274.1	273.7	273.7	273.7	273.2	273.7	274.1	273.7	273.2	273.7
180°	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7



TEST NUMBER: P332903-830

CATALOG NUMBER: SA4XXRDIP-C575D590U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	910.2	910.2	910.2	910.2	910.2	910.2	910.2	910.2	910.2	910.2	910.2
2.5°	893.8	890.9	887.0	882.6	877.3	872.7	870.6	872.3	873.3	870.9	870.6
5°	866.6	857.4	850.1	839.1	830.3	822.9	817.7	815.6	816.3	810.5	809.0
7.5°	835.9	825.1	813.1	800.0	787.9	777.1	771.5	768.4	762.1	759.5	755.0
10°	816.3	801.6	789.9	774.5	760.6	747.7	741.5	736.4	730.2	727.2	721.0
12.5°	796.1	779.1	766.2	750.2	735.9	720.5	714.5	705.0	695.2	689.1	681.1
15°	767.5	747.1	731.2	712.2	695.3	677.7	661.9	644.3	637.7	623.8	615.8
17.5°	734.1	713.3	693.8	668.3	642.2	620.4	603.5	586.7	576.6	567.7	563.5
20°	712.2	693.1	666.0	636.3	607.3	583.1	569.5	558.6	547.5	541.3	536.9
22.5°	691.4	667.0	635.5	603.4	574.5	555.5	544.0	532.7	523.8	517.8	512.0
25°	656.5	624.5	591.2	554.5	534.7	518.2	505.7	496.5	491.1	483.3	480.4
27.5°	620.6	581.9	545.1	520.5	499.8	484.7	473.9	467.0	460.1	455.1	451.3
30°	593.0	553.7	520.8	497.3	476.4	463.9	455.1	447.0	441.6	437.5	434.6
32.5°	565.7	526.5	498.7	473.5	457.0	444.9	435.5	429.4	425.1	419.9	418.1
35°	526.2	491.4	467.2	444.5	427.6	416.6	409.3	403.0	399.4	397.9	396.8
37.5°	488.3	459.8	433.8	415.1	400.1	391.4	382.8	379.8	377.2	374.6	375.8
40°	464.3	437.5	414.4	394.6	382.5	373.0	367.8	364.2	361.9	361.9	361.9
42.5°	443.5	417.3	394.7	377.0	364.9	356.8	351.1	348.0	347.3	346.9	348.7
45°	411.1	386.9	364.2	349.5	339.2	331.1	327.8	325.3	325.3	326.8	327.2
47.5°	379.1	356.4	338.1	321.7	312.3	307.3	304.3	303.0	303.2	304.6	306.3
50°	359.4	337.1	319.1	304.3	295.6	290.8	288.2	287.5	288.2	288.2	290.8
52.5°	338.0	317.9	300.3	287.9	278.0	273.5	272.1	271.1	271.5	272.7	273.8
55°	306.6	288.6	271.7	260.0	252.7	249.8	246.5	246.9	246.1	246.9	246.9
57.5°	275.1	259.0	243.3	233.9	227.5	223.3	219.7	220.6	219.6	219.4	218.9
60°	254.9	237.2	224.8	216.4	209.1	205.4	202.1	202.8	201.7	201.0	199.5
62.5°	232.9	218.2	206.3	198.2	192.3	188.0	184.7	184.0	181.4	179.0	175.7
65°	201.0	188.9	178.2	170.5	165.0	161.7	159.2	156.9	151.5	145.6	142.7
67.5°	169.9	161.2	151.3	144.8	140.3	136.0	131.1	127.3	122.2	118.9	117.2
70°	150.0	141.6	133.1	126.9	122.2	118.1	112.5	110.0	106.3	104.9	103.0
72.5°	130.9	123.1	115.2	109.6	104.5	101.3	97.1	94.4	92.8	92.3	90.4
75°	102.0	95.8	89.8	84.7	80.7	78.5	76.6	74.8	74.1	70.8	68.9
77.5°	74.4	70.2	66.6	63.0	60.0	58.6	55.0	53.0	51.7	50.1	49.8
80°	58.0	55.0	51.4	49.1	45.1	43.6	42.1	41.8	41.5	41.1	40.7
82.5°	43.5	40.6	36.9	35.6	34.6	33.6	32.8	32.4	32.0	32.2	32.2
85°	22.0	20.5	20.5	20.2	19.8	19.4	19.0	19.0	18.7	19.0	18.7
87.5°	8.2	7.9	8.6	7.9	8.5	8.7	8.3	8.4	8.8	8.3	8.3
90°	4.3	4.3	7.5	7.5	8.6	9.7	9.1	9.7	10.2	10.7	10.7
92.5°	28.4	39.6	66.9	108.6	149.3	170.5	142.0	105.6	79.5	63.2	52.5
95°	44.6	67.2	114.0	202.2	330.6	438.2	450.5	398.4	315.1	243.0	190.9
97.5°	54.0	73.0	109.0	181.7	309.5	461.6	566.1	588.6	557.7	505.1	448.9
100°	61.3	78.5	110.2	171.0	280.7	432.3	570.0	648.5	659.2	632.8	593.0
102.5°	69.5	85.8	114.5	168.0	261.3	395.8	537.6	645.5	698.8	706.4	689.8
105°	83.3	99.0	124.7	169.4	244.7	352.7	479.1	602.2	695.2	748.5	770.5
107.5°	97.6	113.0	136.7	177.3	241.7	328.7	431.8	540.8	639.8	714.8	762.7
110°	107.5	122.1	145.7	183.3	242.5	320.5	408.1	503.8	596.8	674.8	734.0



TEST NUMBER: P332903-830

CATALOG NUMBER: SA4XXRDIP-C575D590U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	117.0	131.5	154.3	189.8	245.1	316.6	394.7	476.7	558.9	632.6	691.7
115°	131.8	146.3	167.8	200.0	250.1	314.5	382.3	449.5	515.7	578.5	630.2
117.5°	145.2	160.3	180.8	210.5	255.2	314.0	376.7	436.1	490.9	540.4	584.1
120°	154.3	169.4	189.8	217.7	259.2	314.0	373.7	430.2	480.1	523.1	561.3
122.5°	163.3	178.0	198.4	224.6	263.1	313.6	370.2	425.0	473.3	512.4	545.8
125°	175.8	190.9	210.2	235.0	268.8	312.9	364.6	416.1	462.4	499.5	529.0
127.5°	187.3	202.5	221.2	243.9	273.4	311.7	356.9	405.4	449.6	486.6	514.6
130°	194.6	210.2	228.5	249.5	276.9	311.3	352.1	396.8	439.3	475.8	504.4
132.5°	201.5	216.2	234.5	255.1	279.9	310.9	347.9	387.8	427.6	463.4	491.8
135°	211.3	225.3	243.0	262.4	284.5	310.2	341.4	375.3	410.3	443.0	470.0
137.5°	219.6	232.9	249.5	267.6	287.1	310.1	335.8	364.0	393.6	421.2	445.5
140°	224.7	237.6	253.8	271.0	289.3	309.7	332.8	357.5	382.9	407.0	429.6
142.5°	229.5	242.0	257.7	273.5	291.0	309.7	330.3	351.6	373.8	394.5	414.2
145°	236.0	247.9	261.8	276.4	292.0	308.6	325.8	343.0	361.3	377.5	392.5
147.5°	242.4	253.1	266.2	278.8	292.5	306.7	321.9	336.0	350.5	363.4	375.3
150°	246.3	256.5	268.3	280.1	292.5	305.4	318.9	331.8	344.1	354.9	364.6
152.5°	250.2	259.5	270.0	281.0	291.6	303.2	315.4	327.0	337.6	347.5	355.5
155°	255.4	263.4	272.6	281.7	290.3	300.0	310.2	319.9	328.5	336.6	343.0
157.5°	260.3	266.6	274.5	281.7	289.0	296.7	305.0	312.3	319.5	326.2	331.4
160°	262.9	268.8	275.3	281.7	287.7	294.1	301.1	307.6	313.5	319.3	323.7
162.5°	265.5	270.1	276.2	281.7	286.3	291.5	297.7	302.8	307.8	312.5	316.4
165°	268.3	271.5	276.4	280.7	283.9	287.7	292.0	296.2	299.4	303.2	305.9
167.5°	270.2	272.7	276.3	279.4	281.3	283.8	286.8	289.9	292.4	295.4	297.0
170°	271.5	273.1	275.8	278.5	279.6	281.2	283.3	286.1	287.7	289.8	291.4
172.5°	272.4	273.5	275.4	277.7	277.9	278.6	280.3	282.6	283.8	285.1	286.3
175°	273.7	273.7	274.8	276.4	275.8	275.8	276.9	278.0	278.5	279.6	279.6
177.5°	273.7	273.7	274.1	274.9	274.1	274.1	274.6	274.9	275.4	275.4	275.8
180°	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7



TEST NUMBER: P332903-830
 CATALOG NUMBER: SA4XXRDIP-C575D590U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	910.2	910.2	910.2	910.2	910.2	910.2	910.2	910.2	910.2	910.2	910.2
2.5°	868.8	869.4	867.4	866.8	867.4	869.4	868.8	870.6	870.9	873.3	872.3
5°	806.1	805.3	803.5	803.9	803.5	805.3	806.1	809.0	810.5	816.3	815.6
7.5°	752.3	749.5	750.4	747.3	750.4	749.5	752.3	755.0	759.5	762.1	768.4
10°	719.5	715.5	712.2	709.3	712.2	715.5	719.5	721.0	727.2	730.2	736.4
12.5°	674.7	671.2	666.7	667.6	666.7	671.2	674.7	681.1	689.1	695.2	705.0
15°	611.0	605.5	596.6	597.8	596.6	605.5	611.0	615.8	623.8	637.7	644.3
17.5°	557.0	557.1	553.1	554.0	553.1	557.1	557.0	563.5	567.7	576.6	586.7
20°	529.1	526.6	527.0	525.8	527.0	526.6	529.1	536.9	541.3	547.5	558.6
22.5°	509.8	506.7	504.1	501.8	504.1	506.7	509.8	512.0	517.8	523.8	532.7
25°	477.1	474.9	471.6	470.9	471.6	474.9	477.1	480.4	483.3	491.1	496.5
27.5°	448.4	447.9	446.6	444.9	446.6	447.9	448.4	451.3	455.1	460.1	467.0
30°	431.6	430.9	430.2	429.0	430.2	430.9	431.6	434.6	437.5	441.6	447.0
32.5°	416.7	416.2	415.5	415.6	415.5	416.2	416.7	418.1	419.9	425.1	429.4
35°	395.3	394.9	394.3	393.9	394.3	394.9	395.3	396.8	397.9	399.4	403.0
37.5°	375.4	376.4	375.9	375.8	375.9	376.4	375.4	375.8	374.6	377.2	379.8
40°	361.6	361.9	362.7	362.3	362.7	361.9	361.6	361.9	361.9	361.9	364.2
42.5°	350.2	350.2	351.3	350.0	351.3	350.2	350.2	348.7	346.9	347.3	348.0
45°	329.7	331.9	331.5	331.5	331.5	331.9	329.7	327.2	326.8	325.3	325.3
47.5°	307.3	309.2	309.7	309.6	309.7	309.2	307.3	306.3	304.6	303.2	303.0
50°	292.7	291.9	293.0	292.7	293.0	291.9	292.7	290.8	288.2	288.2	287.5
52.5°	274.8	274.9	274.8	274.5	274.8	274.9	274.8	273.8	272.7	271.5	271.1
55°	247.1	247.5	246.9	247.1	246.9	247.5	247.1	246.9	246.9	246.1	246.9
57.5°	217.3	215.5	216.2	215.4	216.2	215.5	217.3	218.9	219.4	219.6	220.6
60°	195.9	192.9	192.2	190.7	192.2	192.9	195.9	199.5	201.0	201.7	202.8
62.5°	171.7	169.8	167.2	168.4	167.2	169.8	171.7	175.7	179.0	181.4	184.0
65°	139.7	138.3	137.1	138.6	137.1	138.3	139.7	142.7	145.6	151.5	156.9
67.5°	115.6	114.9	114.9	114.1	114.9	114.9	115.6	117.2	118.9	122.2	127.3
70°	103.0	102.0	102.0	101.2	102.0	102.0	103.0	103.0	104.9	106.3	110.0
72.5°	90.1	89.1	89.4	88.9	89.4	89.1	90.1	90.4	92.3	92.8	94.4
75°	66.7	64.9	64.9	65.3	64.9	64.9	66.7	68.9	70.8	74.1	74.8
77.5°	49.8	49.4	50.0	49.3	50.0	49.4	49.8	49.8	50.1	51.7	53.0
80°	40.7	40.3	40.0	41.1	40.0	40.3	40.7	40.7	41.1	41.5	41.8
82.5°	31.6	31.6	31.5	32.9	31.5	31.6	31.6	32.2	32.2	32.0	32.4
85°	19.0	18.4	19.0	18.4	19.0	18.4	19.0	18.7	19.0	18.7	19.0
87.5°	9.0	8.9	8.4	8.7	8.4	8.9	9.0	8.3	8.3	8.8	8.4
90°	11.3	11.8	11.3	11.3	11.3	11.8	11.3	10.7	10.7	10.2	9.7
92.5°	46.1	43.3	41.4	41.4	41.4	43.3	46.1	52.5	63.2	79.5	105.6
95°	164.6	147.9	138.2	131.2	138.2	147.9	164.6	190.9	243.0	315.1	398.4
97.5°	410.4	378.0	361.8	350.6	361.8	378.0	410.4	448.9	505.1	557.7	588.6
100°	546.3	513.5	497.4	493.0	497.4	513.5	546.3	593.0	632.8	659.2	648.5
102.5°	661.1	637.3	620.4	616.9	620.4	637.3	661.1	689.8	706.4	698.8	645.5
105°	771.6	767.2	759.7	756.5	759.7	767.2	771.6	770.5	748.5	695.2	602.2
107.5°	789.3	801.5	806.9	808.3	806.9	801.5	789.3	762.7	714.8	639.8	540.8
110°	772.1	794.7	804.4	809.2	804.4	794.7	772.1	734.0	674.8	596.8	503.8



TEST NUMBER: P332903-830

CATALOG NUMBER: SA4XXRDIP-C575D590U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	735.1	762.4	776.0	783.8	776.0	762.4	735.1	691.7	632.6	558.9	476.7
115°	672.6	704.9	722.1	726.4	722.1	704.9	672.6	630.2	578.5	515.7	449.5
117.5°	620.4	647.4	664.9	668.3	664.9	647.4	620.4	584.1	540.4	490.9	436.1
120°	592.0	615.7	629.6	635.6	629.6	615.7	592.0	561.3	523.1	480.1	430.2
122.5°	571.7	592.0	603.8	609.7	603.8	592.0	571.7	545.8	512.4	473.3	425.0
125°	550.5	566.2	576.4	579.6	576.4	566.2	550.5	529.0	499.5	462.4	416.1
127.5°	536.3	550.2	558.7	561.9	558.7	550.2	536.3	514.6	486.6	449.6	405.4
130°	526.4	539.8	548.5	551.7	548.5	539.8	526.4	504.4	475.8	439.3	396.8
132.5°	513.5	528.7	536.8	540.1	536.8	528.7	513.5	491.8	463.4	427.6	387.8
135°	491.4	506.5	515.1	518.3	515.1	506.5	491.4	470.0	443.0	410.3	375.3
137.5°	465.6	480.5	487.6	491.4	487.6	480.5	465.6	445.5	421.2	393.6	364.0
140°	448.5	460.2	467.8	472.1	467.8	460.2	448.5	429.6	407.0	382.9	357.5
142.5°	430.7	441.8	448.5	451.4	448.5	441.8	430.7	414.2	394.5	373.8	351.6
145°	406.0	415.1	420.5	423.1	420.5	415.1	406.0	392.5	377.5	361.3	343.0
147.5°	385.2	393.0	397.1	398.1	397.1	393.0	385.2	375.3	363.4	350.5	336.0
150°	373.2	380.1	383.3	383.9	383.3	380.1	373.2	364.6	354.9	344.1	331.8
152.5°	362.8	368.5	370.4	371.0	370.4	368.5	362.8	355.5	347.5	337.6	327.0
155°	348.5	352.7	354.3	354.3	354.3	352.7	348.5	343.0	336.6	328.5	319.9
157.5°	335.5	338.7	339.7	339.7	339.7	338.7	335.5	331.4	326.2	319.5	312.3
160°	326.9	330.2	330.6	330.6	330.6	330.2	326.9	323.7	319.3	313.5	307.6
162.5°	318.8	322.0	322.5	322.1	322.5	322.0	318.8	316.4	312.5	307.8	302.8
165°	308.1	310.2	309.7	309.2	309.7	310.2	308.1	305.9	303.2	299.4	296.2
167.5°	298.1	299.4	299.4	299.0	299.4	299.4	298.1	297.0	295.4	292.4	289.9
170°	292.5	293.0	292.5	292.5	292.5	293.0	292.5	291.4	289.8	287.7	286.1
172.5°	286.9	287.5	286.9	286.1	286.9	287.5	286.9	286.3	285.1	283.8	282.6
175°	279.6	280.7	279.6	278.5	279.6	280.7	279.6	279.6	279.6	278.5	278.0
177.5°	275.4	275.8	274.9	274.1	274.9	275.8	275.4	275.8	275.4	275.4	274.9
180°	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7



TEST NUMBER: P332903-830

CATALOG NUMBER: SA4XXRDIP-C575D590U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	910.2	910.2	910.2	910.2	910.2	910.2	910.2	910.2	910.2	910.2	910.2
2.5°	870.6	872.7	877.3	882.6	887.0	890.9	893.8	897.9	901.7	907.0	912.0
5°	817.7	822.9	830.3	839.1	850.1	857.4	866.6	874.7	886.4	898.1	909.5
7.5°	771.5	777.1	787.9	800.0	813.1	825.1	835.9	850.2	865.7	882.9	901.9
10°	741.5	747.7	760.6	774.5	789.9	801.6	816.3	833.2	850.8	871.7	895.1
12.5°	714.5	720.5	735.9	750.2	766.2	779.1	796.1	813.2	836.7	859.4	886.1
15°	661.9	677.7	695.3	712.2	731.2	747.1	767.5	785.1	807.6	839.4	869.9
17.5°	603.5	620.4	642.2	668.3	693.8	713.3	734.1	756.0	782.7	815.2	850.4
20°	569.5	583.1	607.3	636.3	666.0	693.1	712.2	736.4	763.9	799.1	835.4
22.5°	544.0	555.5	574.5	603.4	635.5	667.0	691.4	715.3	745.7	780.9	820.5
25°	505.7	518.2	534.7	554.5	591.2	624.5	656.5	683.9	716.2	751.4	795.4
27.5°	473.9	484.7	499.8	520.5	545.1	581.9	620.6	652.0	685.0	722.8	766.9
30°	455.1	463.9	476.4	497.3	520.8	553.7	593.0	629.7	663.1	702.3	748.1
32.5°	435.5	444.9	457.0	473.5	498.7	526.5	565.7	605.9	641.3	681.5	726.4
35°	409.3	416.6	427.6	444.5	467.2	491.4	526.2	567.7	605.1	648.0	690.9
37.5°	382.8	391.4	400.1	415.1	433.8	459.8	488.3	530.7	572.1	611.2	653.2
40°	367.8	373.0	382.5	394.6	414.4	437.5	464.3	505.7	547.1	586.1	628.2
42.5°	351.1	356.8	364.9	377.0	394.7	417.3	443.5	479.3	522.5	560.2	598.6
45°	327.8	331.1	339.2	349.5	364.2	386.9	411.1	443.0	483.7	519.6	553.4
47.5°	304.3	307.3	312.3	321.7	338.1	356.4	379.1	407.6	443.4	479.3	507.8
50°	288.2	290.8	295.6	304.3	319.1	337.1	359.4	385.0	417.0	451.5	475.2
52.5°	272.1	273.5	278.0	287.9	300.3	317.9	338.0	361.6	391.4	420.1	444.2
55°	246.5	249.8	252.7	260.0	271.7	288.6	306.6	328.9	352.0	376.3	396.8
57.5°	219.7	223.3	227.5	233.9	243.3	259.0	275.1	293.2	312.9	333.1	350.2
60°	202.1	205.4	209.1	216.4	224.8	237.2	254.9	270.6	285.7	304.0	321.2
62.5°	184.7	188.0	192.3	198.2	206.3	218.2	232.9	246.6	262.2	278.2	291.1
65°	159.2	161.7	165.0	170.5	178.2	188.9	201.0	211.6	225.6	237.2	249.0
67.5°	131.1	136.0	140.3	144.8	151.3	161.2	169.9	180.1	189.6	198.3	209.1
70°	112.5	118.1	122.2	126.9	133.1	141.6	150.0	156.9	164.7	173.1	182.7
72.5°	97.1	101.3	104.5	109.6	115.2	123.1	130.9	136.7	143.0	148.7	158.0
75°	76.6	78.5	80.7	84.7	89.8	95.8	102.0	107.1	110.7	115.8	122.5
77.5°	55.0	58.6	60.0	63.0	66.6	70.2	74.4	78.7	82.2	84.1	89.1
80°	42.1	43.6	45.1	49.1	51.4	55.0	58.0	62.0	63.4	65.3	70.0
82.5°	32.8	33.6	34.6	35.6	36.9	40.6	43.5	46.1	47.6	48.3	51.8
85°	19.0	19.4	19.8	20.2	20.5	20.5	22.0	23.8	26.4	26.4	27.5
87.5°	8.3	8.7	8.5	7.9	8.6	7.9	8.2	8.1	8.9	9.4	10.1
90°	9.1	9.7	8.6	7.5	7.5	4.3	4.3	3.8	3.2	1.6	0.6
92.5°	142.0	170.5	149.3	108.6	66.9	39.6	28.4	20.5	13.9	9.0	6.1
95°	450.5	438.2	330.6	202.2	114.0	67.2	44.6	31.8	24.7	19.3	17.7
97.5°	566.1	461.6	309.5	181.7	109.0	73.0	54.0	42.9	36.5	31.9	31.9
100°	570.0	432.3	280.7	171.0	110.2	78.5	61.3	51.1	44.6	40.9	40.9
102.5°	537.6	395.8	261.3	168.0	114.5	85.8	69.5	59.7	53.6	50.3	49.5
105°	479.1	352.7	244.7	169.4	124.7	99.0	83.3	73.7	67.2	64.6	62.9
107.5°	431.8	328.7	241.7	177.3	136.7	113.0	97.6	88.4	81.5	78.8	77.8
110°	408.1	320.5	242.5	183.3	145.7	122.1	107.5	97.8	91.4	88.7	87.7



TEST NUMBER: P332903-830

CATALOG NUMBER: SA4XXRDIP-C575D590U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	394.7	316.6	245.1	189.8	154.3	131.5	117.0	107.4	101.3	98.2	97.1
115°	382.3	314.5	250.1	200.0	167.8	146.3	131.8	121.5	116.1	112.4	110.7
117.5°	376.7	314.0	255.2	210.5	180.8	160.3	145.2	135.7	129.8	126.5	125.0
120°	373.7	314.0	259.2	217.7	189.8	169.4	154.3	145.2	139.2	135.5	134.4
122.5°	370.2	313.6	263.1	224.6	198.4	178.0	163.3	153.4	147.9	144.1	143.0
125°	364.6	312.9	268.8	235.0	210.2	190.9	175.8	165.6	159.7	156.5	154.3
127.5°	356.9	311.7	273.4	243.9	221.2	202.5	187.3	176.6	169.9	166.1	164.3
130°	352.1	311.3	276.9	249.5	228.5	210.2	194.6	184.5	176.3	172.0	169.9
132.5°	347.9	310.9	279.9	255.1	234.5	216.2	201.5	190.5	182.9	177.2	175.5
135°	341.4	310.2	284.5	262.4	243.0	225.3	211.3	200.0	190.9	185.5	183.3
137.5°	335.8	310.1	287.1	267.6	249.5	232.9	219.6	207.8	199.2	193.2	191.2
140°	332.8	309.7	289.3	271.0	253.8	237.6	224.7	213.5	204.3	198.4	196.8
142.5°	330.3	309.7	291.0	273.5	257.7	242.0	229.5	218.6	209.9	204.4	202.8
145°	325.8	308.6	292.0	276.4	261.8	247.9	236.0	225.8	218.3	212.9	211.3
147.5°	321.9	306.7	292.5	278.8	266.2	253.1	242.4	233.8	226.1	221.4	220.8
150°	318.9	305.4	292.5	280.1	268.3	256.5	246.3	238.2	231.8	227.4	226.9
152.5°	315.4	303.2	291.6	281.0	270.0	259.5	250.2	242.9	236.9	232.6	232.5
155°	310.2	300.0	290.3	281.7	272.6	263.4	255.4	249.5	244.1	240.9	240.3
157.5°	305.0	296.7	289.0	281.7	274.5	266.6	260.3	255.1	251.0	248.0	248.0
160°	301.1	294.1	287.7	281.7	275.3	268.8	262.9	258.6	254.9	252.7	252.7
162.5°	297.7	291.5	286.3	281.7	276.2	270.1	265.5	261.6	258.3	256.6	257.0
165°	292.0	287.7	283.9	280.7	276.4	271.5	268.3	265.6	262.9	261.8	261.8
167.5°	286.8	283.8	281.3	279.4	276.3	272.7	270.2	268.7	266.6	266.2	266.6
170°	283.3	281.2	279.6	278.5	275.8	273.1	271.5	270.4	268.8	268.3	268.8
172.5°	280.3	278.6	277.9	277.7	275.4	273.5	272.4	271.7	270.5	270.4	271.0
175°	276.9	275.8	275.8	276.4	274.8	273.7	273.7	273.1	272.6	272.6	273.1
177.5°	274.6	274.1	274.1	274.9	274.1	273.7	273.7	273.7	273.2	273.7	274.1
180°	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7



TEST NUMBER: P332903-830

CATALOG NUMBER: SA4XXRDIP-C575D590U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	910.2	910.2	910.2	910.2	910.2	910.2	910.2	910.2	910.2	910.2	910.2
2.5°	915.8	918.4	921.3	926.9	931.6	933.7	937.8	940.8	939.8	944.0	951.0
5°	919.4	929.3	940.7	952.3	965.5	976.6	985.4	994.2	1001.2	1009.6	1022.1
7.5°	918.8	936.4	955.5	976.6	998.2	1016.9	1034.3	1051.9	1067.4	1084.6	1106.9
10°	916.4	939.9	963.7	991.3	1018.8	1044.8	1068.3	1090.2	1111.2	1133.5	1161.8
12.5°	913.8	940.8	969.6	1002.7	1037.0	1068.3	1095.9	1127.6	1153.7	1182.5	1215.2
15°	902.1	938.5	977.7	1020.6	1061.7	1103.8	1141.6	1180.5	1216.8	1251.2	1292.3
17.5°	888.8	930.7	976.9	1027.7	1077.0	1128.2	1173.1	1222.1	1259.1	1305.4	1343.6
20°	878.0	923.0	972.5	1029.4	1085.5	1142.4	1191.8	1241.7	1283.6	1330.1	1378.6
22.5°	864.8	914.3	967.9	1026.7	1085.5	1147.6	1202.4	1252.0	1303.8	1356.2	1406.1
25°	843.5	894.8	951.7	1016.2	1083.6	1147.1	1205.8	1267.4	1323.1	1380.0	1424.7
27.5°	817.4	871.3	931.2	997.8	1067.1	1132.0	1201.1	1266.8	1322.9	1377.5	1416.5
30°	796.5	853.4	911.0	978.5	1050.3	1120.0	1194.0	1259.7	1318.7	1367.9	1389.9
32.5°	775.1	829.1	888.3	956.7	1030.4	1105.3	1178.8	1245.9	1300.5	1330.0	1330.6
35°	737.8	788.4	850.1	917.2	992.7	1074.1	1148.6	1214.6	1247.9	1250.6	1214.6
37.5°	697.2	743.7	801.8	869.0	951.7	1032.7	1108.7	1152.7	1163.9	1126.6	1060.2
40°	668.2	711.1	767.2	836.1	918.3	1001.9	1071.2	1103.4	1091.7	1031.2	957.2
42.5°	637.6	677.6	731.7	799.7	882.2	966.7	1025.8	1043.0	1011.9	942.1	855.4
45°	587.9	624.5	678.1	746.7	825.9	905.1	949.8	941.0	889.3	806.4	709.3
47.5°	536.0	571.5	619.6	683.1	764.2	832.5	862.8	836.3	762.7	671.6	592.5
50°	501.7	538.0	582.4	642.9	717.0	783.0	802.4	762.0	680.2	592.7	520.0
52.5°	468.0	499.0	542.4	600.9	671.8	727.5	737.8	691.4	606.9	528.4	464.0
55°	416.6	444.9	481.5	536.5	597.8	645.1	639.6	579.8	503.1	436.0	385.4
57.5°	366.9	388.2	422.1	473.6	527.4	559.2	539.0	488.1	416.7	361.7	319.1
60°	334.1	353.9	385.4	430.6	477.9	495.8	478.9	423.6	367.1	316.9	280.9
62.5°	303.0	320.5	347.6	389.5	427.6	438.3	420.3	371.9	321.0	278.1	248.4
65°	257.8	273.9	297.1	326.8	353.2	358.3	346.6	297.1	258.5	222.6	202.1
67.5°	216.8	227.3	245.4	271.1	285.1	288.1	265.4	234.3	200.4	178.3	162.9
70°	189.3	196.5	213.4	227.3	238.7	239.1	218.2	193.2	167.2	149.3	137.9
72.5°	162.5	169.6	182.4	191.9	200.6	197.7	178.6	158.9	137.9	124.3	115.8
75°	125.5	131.7	138.3	142.7	142.7	139.0	125.1	110.4	98.3	90.2	87.7
77.5°	91.1	96.3	98.5	97.8	96.5	90.8	82.0	72.4	68.1	64.3	62.3
80°	71.5	73.7	74.5	72.6	70.4	63.8	58.0	53.9	49.9	48.4	47.7
82.5°	53.1	55.0	53.1	53.5	48.7	43.3	40.1	38.6	36.9	36.4	35.6
85°	28.3	27.9	27.1	25.3	22.0	21.3	20.9	20.5	19.8	20.2	19.4
87.5°	10.0	9.4	8.4	8.2	8.2	8.3	8.6	8.8	9.0	8.6	9.2
90°	1.6	3.2	3.8	4.3	4.3	7.5	7.5	8.6	9.7	9.1	9.7
92.5°	9.0	13.9	20.5	28.4	39.6	66.9	108.6	149.3	170.5	142.0	105.6
95°	19.3	24.7	31.8	44.6	67.2	114.0	202.2	330.6	438.2	450.5	398.4
97.5°	31.9	36.5	42.9	54.0	73.0	109.0	181.7	309.5	461.6	566.1	588.6
100°	40.9	44.6	51.1	61.3	78.5	110.2	171.0	280.7	432.3	570.0	648.5
102.5°	50.3	53.6	59.7	69.5	85.8	114.5	168.0	261.3	395.8	537.6	645.5
105°	64.6	67.2	73.7	83.3	99.0	124.7	169.4	244.7	352.7	479.1	602.2
107.5°	78.8	81.5	88.4	97.6	113.0	136.7	177.3	241.7	328.7	431.8	540.8
110°	88.7	91.4	97.8	107.5	122.1	145.7	183.3	242.5	320.5	408.1	503.8



TEST NUMBER: P332903-830

CATALOG NUMBER: SA4XXRDIP-C575D590U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	98.2	101.3	107.4	117.0	131.5	154.3	189.8	245.1	316.6	394.7	476.7
115°	112.4	116.1	121.5	131.8	146.3	167.8	200.0	250.1	314.5	382.3	449.5
117.5°	126.5	129.8	135.7	145.2	160.3	180.8	210.5	255.2	314.0	376.7	436.1
120°	135.5	139.2	145.2	154.3	169.4	189.8	217.7	259.2	314.0	373.7	430.2
122.5°	144.1	147.9	153.4	163.3	178.0	198.4	224.6	263.1	313.6	370.2	425.0
125°	156.5	159.7	165.6	175.8	190.9	210.2	235.0	268.8	312.9	364.6	416.1
127.5°	166.1	169.9	176.6	187.3	202.5	221.2	243.9	273.4	311.7	356.9	405.4
130°	172.0	176.3	184.5	194.6	210.2	228.5	249.5	276.9	311.3	352.1	396.8
132.5°	177.2	182.9	190.5	201.5	216.2	234.5	255.1	279.9	310.9	347.9	387.8
135°	185.5	190.9	200.0	211.3	225.3	243.0	262.4	284.5	310.2	341.4	375.3
137.5°	193.2	199.2	207.8	219.6	232.9	249.5	267.6	287.1	310.1	335.8	364.0
140°	198.4	204.3	213.5	224.7	237.6	253.8	271.0	289.3	309.7	332.8	357.5
142.5°	204.4	209.9	218.6	229.5	242.0	257.7	273.5	291.0	309.7	330.3	351.6
145°	212.9	218.3	225.8	236.0	247.9	261.8	276.4	292.0	308.6	325.8	343.0
147.5°	221.4	226.1	233.8	242.4	253.1	266.2	278.8	292.5	306.7	321.9	336.0
150°	227.4	231.8	238.2	246.3	256.5	268.3	280.1	292.5	305.4	318.9	331.8
152.5°	232.6	236.9	242.9	250.2	259.5	270.0	281.0	291.6	303.2	315.4	327.0
155°	240.9	244.1	249.5	255.4	263.4	272.6	281.7	290.3	300.0	310.2	319.9
157.5°	248.0	251.0	255.1	260.3	266.6	274.5	281.7	289.0	296.7	305.0	312.3
160°	252.7	254.9	258.6	262.9	268.8	275.3	281.7	287.7	294.1	301.1	307.6
162.5°	256.6	258.3	261.6	265.5	270.1	276.2	281.7	286.3	291.5	297.7	302.8
165°	261.8	262.9	265.6	268.3	271.5	276.4	280.7	283.9	287.7	292.0	296.2
167.5°	266.2	266.6	268.7	270.2	272.7	276.3	279.4	281.3	283.8	286.8	289.9
170°	268.3	268.8	270.4	271.5	273.1	275.8	278.5	279.6	281.2	283.3	286.1
172.5°	270.4	270.5	271.7	272.4	273.5	275.4	277.7	277.9	278.6	280.3	282.6
175°	272.6	272.6	273.1	273.7	273.7	274.8	276.4	275.8	275.8	276.9	278.0
177.5°	273.7	273.2	273.7	273.7	273.7	274.1	274.9	274.1	274.1	274.6	274.9
180°	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7	273.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	910.2	910.2	910.2	910.2	910.2	910.2	910.2
2.5°	954.8	956.0	956.9	959.8	960.1	962.7	960.1
5°	1033.8	1039.0	1047.0	1055.1	1055.8	1060.9	1051.8
7.5°	1122.4	1134.3	1141.7	1154.7	1159.9	1163.1	1157.8
10°	1183.5	1194.4	1213.9	1223.4	1232.9	1234.4	1230.0
12.5°	1242.4	1259.8	1275.2	1293.3	1292.8	1305.7	1301.0
15°	1321.0	1338.9	1360.2	1380.4	1387.7	1387.7	1393.5
17.5°	1377.0	1409.9	1431.9	1447.7	1465.1	1468.1	1466.0
20°	1414.9	1450.4	1473.9	1494.4	1506.2	1509.5	1509.5
22.5°	1443.0	1473.3	1496.2	1514.7	1524.4	1528.2	1527.0
25°	1462.5	1488.6	1502.5	1508.0	1510.5	1509.8	1502.9
27.5°	1435.8	1434.6	1425.8	1408.9	1396.3	1388.6	1379.8
30°	1384.8	1365.6	1343.7	1319.5	1288.3	1264.4	1257.2
32.5°	1308.8	1265.9	1228.7	1188.4	1154.8	1131.0	1121.0
35°	1161.8	1093.9	1038.6	990.1	955.0	932.9	925.6
37.5°	987.4	921.7	853.2	806.3	777.0	754.8	746.5
40°	876.5	804.9	745.2	701.2	671.1	649.5	649.1
42.5°	775.2	707.0	650.7	619.1	586.6	572.3	572.2
45°	634.8	580.1	532.4	507.6	488.1	476.4	473.1
47.5°	525.6	480.4	448.7	428.8	412.9	405.5	400.6
50°	464.3	424.7	399.4	382.1	373.3	363.8	363.1
52.5°	413.2	381.3	361.6	347.5	336.4	330.6	330.8
55°	347.3	322.0	308.0	297.4	288.6	284.2	282.4
57.5°	292.6	273.6	263.4	253.7	250.0	246.5	245.5
60°	258.5	245.7	236.2	228.5	223.0	221.9	221.5
62.5°	230.4	217.0	210.4	204.4	200.4	198.7	198.0
65°	189.9	180.0	174.2	169.5	168.0	165.4	165.0
67.5°	153.2	147.2	143.4	140.1	138.0	137.9	137.9
70°	130.5	127.2	123.9	122.2	121.0	120.3	120.3
72.5°	111.2	108.8	106.0	105.1	104.9	104.2	103.9
75°	84.7	82.2	82.5	80.7	79.2	77.4	76.3
77.5°	60.0	58.2	57.9	57.7	56.4	56.2	56.7
80°	46.6	44.8	44.4	44.8	44.4	43.3	43.3
82.5°	35.4	33.9	33.6	33.3	32.9	33.3	32.7
85°	19.0	18.4	18.4	18.4	19.0	18.7	18.4
87.5°	8.8	8.6	8.9	8.7	8.9	8.4	8.7
90°	10.2	10.7	10.7	11.3	11.8	11.3	11.3
92.5°	79.5	63.2	52.5	46.1	43.3	41.4	41.4
95°	315.1	243.0	190.9	164.6	147.9	138.2	131.2
97.5°	557.7	505.1	448.9	410.4	378.0	361.8	350.6
100°	659.2	632.8	593.0	546.3	513.5	497.4	493.0
102.5°	698.8	706.4	689.8	661.1	637.3	620.4	616.9
105°	695.2	748.5	770.5	771.6	767.2	759.7	756.5
107.5°	639.8	714.8	762.7	789.3	801.5	806.9	808.3
110°	596.8	674.8	734.0	772.1	794.7	804.4	809.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	558.9	632.6	691.7	735.1	762.4	776.0	783.8
115°	515.7	578.5	630.2	672.6	704.9	722.1	726.4
117.5°	490.9	540.4	584.1	620.4	647.4	664.9	668.3
120°	480.1	523.1	561.3	592.0	615.7	629.6	635.6
122.5°	473.3	512.4	545.8	571.7	592.0	603.8	609.7
125°	462.4	499.5	529.0	550.5	566.2	576.4	579.6
127.5°	449.6	486.6	514.6	536.3	550.2	558.7	561.9
130°	439.3	475.8	504.4	526.4	539.8	548.5	551.7
132.5°	427.6	463.4	491.8	513.5	528.7	536.8	540.1
135°	410.3	443.0	470.0	491.4	506.5	515.1	518.3
137.5°	393.6	421.2	445.5	465.6	480.5	487.6	491.4
140°	382.9	407.0	429.6	448.5	460.2	467.8	472.1
142.5°	373.8	394.5	414.2	430.7	441.8	448.5	451.4
145°	361.3	377.5	392.5	406.0	415.1	420.5	423.1
147.5°	350.5	363.4	375.3	385.2	393.0	397.1	398.1
150°	344.1	354.9	364.6	373.2	380.1	383.3	383.9
152.5°	337.6	347.5	355.5	362.8	368.5	370.4	371.0
155°	328.5	336.6	343.0	348.5	352.7	354.3	354.3
157.5°	319.5	326.2	331.4	335.5	338.7	339.7	339.7
160°	313.5	319.3	323.7	326.9	330.2	330.6	330.6
162.5°	307.8	312.5	316.4	318.8	322.0	322.5	322.1
165°	299.4	303.2	305.9	308.1	310.2	309.7	309.2
167.5°	292.4	295.4	297.0	298.1	299.4	299.4	299.0
170°	287.7	289.8	291.4	292.5	293.0	292.5	292.5
172.5°	283.8	285.1	286.3	286.9	287.5	286.9	286.1
175°	278.5	279.6	279.6	279.6	280.7	279.6	278.5
177.5°	275.4	275.4	275.8	275.4	275.8	274.9	274.1
180°	273.7	273.7	273.7	273.7	273.7	273.7	273.7

(END OF REPORT)