

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: P332903-935

Luminaire Tested: **SA4XXRDIP-C575D590U935-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332903-935
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-C575D590U935-4F0-1E-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

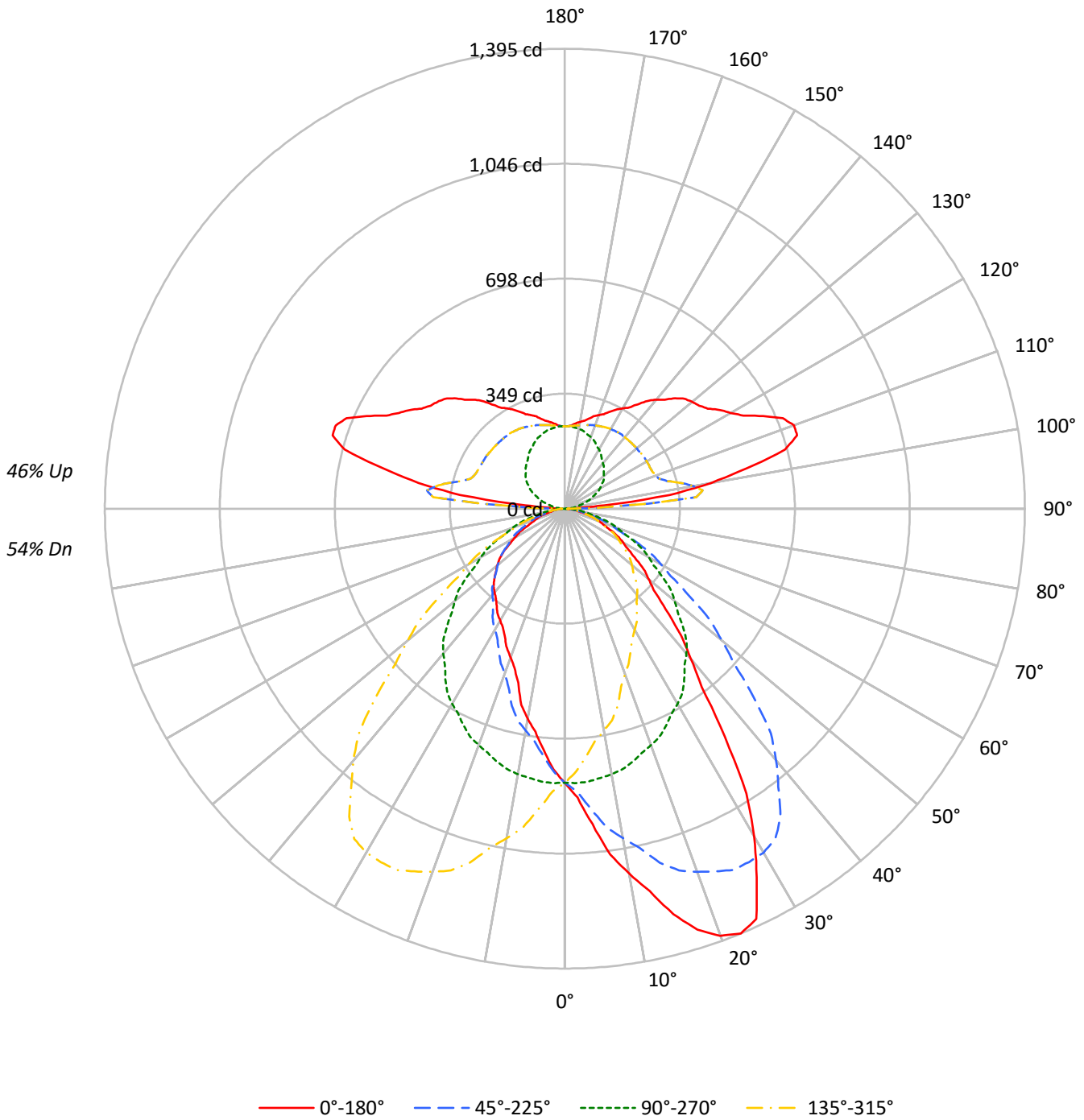
Lumens per Lamp: N/A
Luminaire Lumens: 3921.4 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6713	6713	6713	6713
5°	7786	6733	5951	6733
10°	9211	6703	5311	6703
15°	10639	6641	4563	6641
20°	11846	6556	4127	6556
25°	12229	6472	3832	6472
30°	10705	6371	3653	6371
35°	8333	6220	3546	6220
40°	6249	6048	3488	6048
45°	4933	5771	3457	5771
50°	4166	5452	3357	5452
55°	3631	5102	3178	5102
60°	3266	4737	2813	4737
65°	2881	4346	2420	4346
70°	2594	3939	2183	3939
75°	2174	3490	1862	3490
80°	1836	2975	1743	2975
85°	1556	2325	1556	2325



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CATALOG NUMBER: SA4XXRDIP-C575D590U935-4F0-1E-UDD-A4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.6	2.1
10°-20°	243.0	6.2
20°-30°	380.1	9.7
30°-40°	422.5	10.8
40°-50°	374.9	9.6
50°-60°	292.1	7.4
60°-70°	191.3	4.9
70°-80°	94.1	2.4
80°-90°	24.6	0.6
90°-100°	180.6	4.6
100°-110°	375.8	9.6
110°-120°	336.6	8.6
120°-130°	283.1	7.2
130°-140°	236.1	6.0
140°-150°	180.4	4.6
150°-160°	126.8	3.2
160°-170°	74.6	1.9
170°-180°	24.3	0.6
0°-30°	703.7	17.9
0°-40°	1126.2	28.7
0°-60°	1793.2	45.7
0°-90°	2103.2	53.6
90°-120°	893.0	22.8
90°-150°	1592.6	40.6
90°-180°	1818.0	46.4
0°-180°	3921.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	832	832	832	832	832	
5°	961	831	734	831	961	97
15°	1273	795	546	795	1273	362
25°	1373	727	430	727	1373	609
35°	846	631	360	631	846	530
45°	432	506	303	506	432	342
55°	258	362	226	362	258	235
65°	151	228	127	228	151	152
75°	70	112	60	112	70	77
85°	17	25	17	25	17	19
90°	10	0	10	0	10	9
95°	120	16	120	16	120	186
105°	691	57	691	57	691	683
115°	664	101	664	101	664	659
125°	529	141	529	141	529	481
135°	474	168	474	168	474	365
145°	386	193	386	193	386	245
155°	324	220	324	220	324	151
165°	282	239	282	239	282	81
175°	254	250	254	250	254	25
180°	250	250	250	250	250	



TEST NUMBER: P332903-935

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5
2.5°	877.0	879.4	877.0	876.8	874.1	873.3	872.2	868.7	862.3	858.5	859.4
5°	960.8	969.1	964.5	963.8	956.4	949.1	944.3	933.7	922.2	914.6	908.2
7.5°	1057.7	1062.5	1059.5	1054.8	1042.9	1036.1	1025.3	1011.2	990.8	975.1	960.9
10°	1123.6	1127.6	1126.3	1117.6	1108.9	1091.1	1081.1	1061.3	1035.4	1015.0	995.9
12.5°	1188.4	1192.7	1180.9	1181.4	1164.8	1150.8	1134.9	1110.1	1080.2	1053.9	1030.0
15°	1273.0	1267.7	1267.7	1260.9	1242.5	1223.1	1206.7	1180.5	1143.0	1111.6	1078.4
17.5°	1339.2	1341.1	1338.3	1322.5	1308.0	1288.0	1257.8	1227.4	1192.5	1150.2	1116.4
20°	1378.9	1378.9	1375.9	1365.1	1346.3	1324.9	1292.4	1259.3	1215.0	1172.5	1134.3
22.5°	1394.9	1396.0	1392.5	1383.6	1366.8	1345.8	1318.2	1284.4	1238.9	1191.0	1143.7
25°	1372.9	1379.1	1379.8	1377.5	1372.5	1359.8	1336.0	1301.5	1260.6	1208.7	1157.8
27.5°	1260.4	1268.4	1275.5	1287.0	1302.4	1310.5	1311.6	1294.0	1258.4	1208.4	1157.2
30°	1148.4	1155.0	1176.8	1205.3	1227.4	1247.5	1265.0	1269.6	1249.6	1204.6	1150.7
32.5°	1024.0	1033.1	1054.9	1085.5	1122.4	1156.4	1195.6	1215.5	1215.0	1188.0	1138.2
35°	845.5	852.2	872.4	904.5	948.7	999.3	1061.3	1109.5	1142.4	1140.0	1109.5
37.5°	681.9	689.5	709.8	736.5	779.4	842.0	902.0	968.5	1029.2	1063.2	1053.0
40°	593.0	593.3	613.0	640.5	680.7	735.3	800.6	874.3	942.0	997.3	1008.0
42.5°	522.7	522.8	535.9	565.5	594.4	645.8	708.2	781.4	860.6	924.4	952.8
45°	432.1	435.1	445.9	463.6	486.4	529.9	579.9	647.9	736.7	812.4	859.6
47.5°	365.9	370.4	377.2	391.7	409.8	438.9	480.1	541.2	613.5	696.7	764.0
50°	331.7	332.3	341.0	349.0	364.8	388.0	424.1	475.0	541.4	621.4	696.1
52.5°	302.2	302.0	307.3	317.5	330.3	348.3	377.5	423.9	482.7	554.4	631.5
55°	258.0	259.6	263.6	271.6	281.4	294.1	317.3	352.1	398.3	459.6	529.6
57.5°	224.3	225.2	228.3	231.8	240.6	249.9	267.3	291.4	330.5	380.6	445.9
60°	202.3	202.7	203.7	208.7	215.8	224.5	236.2	256.6	289.5	335.4	386.9
62.5°	180.9	181.5	183.0	186.8	192.2	198.2	210.4	226.9	254.1	293.3	339.8
65°	150.8	151.1	153.4	154.8	159.1	164.5	173.5	184.6	203.4	236.2	271.4
67.5°	126.0	126.0	126.1	127.9	131.0	134.5	139.9	148.8	162.9	183.0	214.0
70°	109.9	109.9	110.6	111.6	113.2	116.2	119.2	126.0	136.4	152.7	176.5
72.5°	94.9	95.1	95.8	96.0	96.9	99.4	101.6	105.8	113.6	126.0	145.2
75°	69.7	70.7	72.3	73.7	75.3	75.1	77.4	80.1	82.4	89.8	100.8
77.5°	51.8	51.3	51.5	52.7	52.9	53.2	54.8	56.9	58.7	62.2	66.1
80°	39.5	39.5	40.6	40.9	40.6	40.9	42.5	43.6	44.3	45.5	49.2
82.5°	29.9	30.4	30.0	30.4	30.7	31.0	32.4	32.5	33.2	33.8	35.3
85°	16.8	17.0	17.4	16.8	16.8	16.8	17.4	17.7	18.4	18.1	18.8
87.5°	7.9	7.7	8.1	7.9	8.1	7.8	8.0	8.4	7.8	8.2	8.0
90°	10.3	10.3	10.8	10.3	9.8	9.8	9.3	8.9	8.4	8.9	7.8
92.5°	37.8	37.8	39.5	42.1	48.0	57.8	72.6	96.4	129.8	155.8	136.4
95°	119.9	126.2	135.1	150.3	174.4	222.0	287.8	363.9	411.6	400.3	302.0
97.5°	320.3	330.5	345.3	374.9	410.1	461.4	509.5	537.7	517.1	421.6	282.8
100°	450.4	454.3	469.1	499.0	541.7	578.1	602.2	592.4	520.6	394.9	256.4
102.5°	563.5	566.7	582.2	603.9	630.2	645.3	638.3	589.6	491.1	361.5	238.7
105°	691.0	694.0	700.9	704.8	703.9	683.7	635.1	550.1	437.6	322.2	223.5
107.5°	738.4	737.1	732.2	721.0	696.7	653.0	584.4	494.0	394.4	300.2	220.8
110°	739.2	734.8	725.9	705.3	670.5	616.4	545.2	460.2	372.8	292.7	221.5



TEST NUMBER: P332903-935

CATALOG NUMBER: SA4XXRDIP-C575D590U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	716.0	708.9	696.5	671.5	631.9	577.9	510.6	435.5	360.6	289.2	223.9
115°	663.6	659.6	643.9	614.4	575.7	528.5	471.1	410.6	349.2	287.3	228.4
117.5°	610.4	607.3	591.4	566.7	533.6	493.6	448.4	398.4	344.1	286.8	233.2
120°	580.6	575.1	562.4	540.8	512.7	477.9	438.6	393.0	341.4	286.8	236.8
122.5°	557.0	551.6	540.8	522.3	498.6	468.0	432.3	388.2	338.2	286.5	240.3
125°	529.4	526.5	517.2	502.9	483.3	456.2	422.4	380.1	333.0	285.9	245.6
127.5°	513.3	510.4	502.6	489.9	470.1	444.5	410.7	370.3	326.1	284.7	249.8
130°	503.9	501.0	493.1	480.9	460.7	434.6	401.3	362.5	321.7	284.4	253.0
132.5°	493.4	490.3	482.9	469.1	449.3	423.3	390.6	354.2	317.8	284.0	255.7
135°	473.5	470.5	462.7	448.9	429.3	404.7	374.8	342.9	311.9	283.4	259.8
137.5°	448.9	445.4	438.9	425.3	407.0	384.8	359.6	332.5	306.8	283.3	262.3
140°	431.3	427.3	420.4	409.7	392.4	371.8	349.7	326.6	304.0	282.9	264.2
142.5°	412.3	409.7	403.6	393.5	378.3	360.4	341.5	321.2	301.7	282.9	265.8
145°	386.5	384.1	379.2	370.8	358.5	344.8	330.0	313.3	297.6	281.9	266.7
147.5°	363.7	362.7	359.0	351.9	342.9	332.0	320.2	306.9	294.0	280.2	267.2
150°	350.7	350.2	347.2	340.9	333.0	324.2	314.4	303.1	291.3	279.0	267.2
152.5°	338.9	338.4	336.7	331.4	324.8	317.5	308.4	298.7	288.1	277.0	266.4
155°	323.6	323.6	322.2	318.3	313.3	307.5	300.1	292.2	283.4	274.1	265.2
157.5°	310.3	310.3	309.4	306.5	302.7	298.0	291.9	285.2	278.6	271.0	264.0
160°	302.0	302.0	301.6	298.6	295.7	291.7	286.4	280.9	275.1	268.6	262.8
162.5°	294.2	294.6	294.1	291.2	289.0	285.4	281.2	276.6	271.9	266.3	261.6
165°	282.4	282.9	283.4	281.5	279.5	277.0	273.5	270.6	266.7	262.8	259.3
167.5°	273.1	273.5	273.5	272.3	271.3	269.8	267.1	264.8	262.0	259.2	257.0
170°	267.2	267.2	267.7	267.2	266.2	264.8	262.8	261.3	258.8	256.8	255.4
172.5°	261.3	262.1	262.6	262.1	261.5	260.5	259.2	258.1	256.1	254.5	253.8
175°	254.4	255.4	256.4	255.4	255.4	255.4	254.4	253.9	253.0	251.9	251.9
177.5°	250.4	251.2	251.9	251.6	251.9	251.6	251.6	251.2	250.8	250.4	250.4
180°	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0



TEST NUMBER: P332903-935
 CATALOG NUMBER: SA4XXRDIP-C575D590U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5
2.5°	856.7	852.9	851.0	846.7	841.6	839.0	836.5	833.1	828.5	823.7	820.2
5°	900.2	892.1	882.0	870.0	859.3	848.9	839.8	830.8	820.4	809.7	799.0
7.5°	944.8	928.9	911.9	892.1	872.9	855.4	839.3	823.9	806.5	790.8	776.6
10°	975.9	954.4	930.7	905.5	880.4	858.6	837.2	817.7	796.3	777.2	761.1
12.5°	1001.1	975.9	947.3	915.9	885.7	859.4	834.7	809.4	785.1	764.3	742.9
15°	1042.8	1008.3	969.8	932.3	893.1	857.3	824.1	794.6	766.8	737.7	717.2
17.5°	1071.6	1030.6	983.9	938.7	892.4	850.2	811.9	776.8	744.7	715.0	690.6
20°	1088.7	1043.5	991.6	940.3	888.4	843.2	802.0	763.1	730.0	697.8	672.7
22.5°	1098.4	1048.4	991.6	937.9	884.2	835.2	790.0	749.5	713.3	681.2	653.4
25°	1101.5	1047.8	989.9	928.2	869.4	817.4	770.5	726.6	686.4	654.3	624.7
27.5°	1097.2	1034.1	974.7	911.5	850.7	795.9	746.7	700.5	660.3	625.8	595.6
30°	1090.7	1023.1	959.4	893.8	832.2	779.5	727.6	683.4	641.5	605.7	575.2
32.5°	1076.9	1009.7	941.2	873.9	811.5	757.3	708.1	663.6	622.5	585.8	553.5
35°	1049.2	981.2	906.8	837.8	776.5	720.2	674.0	631.1	591.9	552.8	518.6
37.5°	1012.8	943.4	869.4	793.8	732.5	679.3	636.9	596.7	558.4	522.6	484.7
40°	978.5	915.2	838.9	763.8	700.9	649.5	610.4	573.9	535.4	499.8	461.9
42.5°	937.0	883.0	805.9	730.6	668.4	619.0	582.5	546.8	511.8	477.3	437.8
45°	867.6	826.8	754.4	682.1	619.4	570.5	537.0	505.5	474.7	441.9	404.7
47.5°	788.2	760.5	698.1	624.0	566.0	522.0	489.7	463.9	437.8	405.0	372.4
50°	733.0	715.2	655.0	587.3	532.0	491.5	458.3	434.1	412.4	380.9	351.7
52.5°	674.0	664.6	613.6	548.9	495.5	455.8	427.5	405.8	383.7	357.6	330.3
55°	584.3	589.3	546.0	490.1	439.9	406.4	380.6	362.5	343.7	321.6	300.5
57.5°	492.4	510.8	481.8	432.7	385.6	354.6	335.2	319.9	304.3	285.9	267.9
60°	437.5	452.9	436.5	393.3	352.1	323.3	305.2	293.4	277.7	261.0	247.2
62.5°	383.9	400.4	390.6	355.8	317.5	292.7	276.8	265.9	254.2	239.5	225.2
65°	316.6	327.3	322.6	298.5	271.4	250.2	235.5	227.5	216.7	206.0	193.3
67.5°	242.5	263.2	260.5	247.6	224.2	207.7	198.0	191.0	181.2	173.2	164.5
70°	199.3	218.4	218.1	207.7	194.9	179.5	172.9	166.9	158.1	150.4	143.4
72.5°	163.2	180.6	183.2	175.3	166.6	154.9	148.4	144.3	135.9	130.6	124.8
75°	114.3	127.0	130.4	130.4	126.3	120.3	114.6	111.9	105.8	101.2	97.8
77.5°	74.9	82.9	88.2	89.4	90.0	88.0	83.3	81.4	76.8	75.1	71.9
80°	53.0	58.3	64.3	66.3	68.0	67.3	65.3	64.0	59.7	57.9	56.7
82.5°	36.6	39.5	44.5	48.9	48.5	50.2	48.5	47.4	44.1	43.5	42.1
85°	19.1	19.5	20.1	23.1	24.8	25.5	25.8	25.1	24.1	24.1	21.8
87.5°	7.8	7.6	7.5	7.5	7.7	8.6	9.1	9.2	8.6	8.1	7.4
90°	6.9	6.9	4.0	4.0	3.4	2.9	1.5	0.5	1.5	2.9	3.4
92.5°	99.2	61.1	36.2	25.9	18.8	12.7	8.2	5.6	8.2	12.7	18.8
95°	184.7	104.1	61.4	40.7	29.0	22.6	17.7	16.2	17.7	22.6	29.0
97.5°	166.0	99.5	66.6	49.3	39.2	33.3	29.1	29.1	29.1	33.3	39.2
100°	156.2	100.7	71.7	56.0	46.7	40.7	37.4	37.4	37.4	40.7	46.7
102.5°	153.4	104.6	78.4	63.5	54.5	49.0	46.0	45.2	46.0	49.0	54.5
105°	154.7	113.9	90.4	76.1	67.3	61.4	59.0	57.4	59.0	61.4	67.3
107.5°	162.0	124.8	103.2	89.2	80.8	74.5	72.0	71.0	72.0	74.5	80.8
110°	167.5	133.1	111.5	98.2	89.4	83.5	81.0	80.1	81.0	83.5	89.4



TEST NUMBER: P332903-935

CATALOG NUMBER: SA4XXRDIP-C575D590U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	173.4	140.9	120.1	106.9	98.1	92.6	89.7	88.7	89.7	92.6	98.1
115°	182.7	153.3	133.6	120.4	111.0	106.1	102.6	101.2	102.6	106.1	111.0
117.5°	192.3	165.1	146.5	132.7	124.0	118.6	115.5	114.2	115.5	118.6	124.0
120°	198.9	173.4	154.7	140.9	132.6	127.2	123.8	122.8	123.8	127.2	132.6
122.5°	205.2	181.2	162.6	149.2	140.1	135.1	131.6	130.6	131.6	135.1	140.1
125°	214.6	192.0	174.4	160.6	151.3	145.9	142.9	140.9	142.9	145.9	151.3
127.5°	222.8	202.1	184.9	171.1	161.4	155.2	151.7	150.1	151.7	155.2	161.4
130°	227.9	208.7	192.0	177.8	168.5	161.1	157.1	155.2	157.1	161.1	168.5
132.5°	233.0	214.2	197.5	184.1	174.0	167.0	161.9	160.3	161.9	167.0	174.0
135°	239.7	222.0	205.8	193.0	182.7	174.4	169.4	167.5	169.4	174.4	182.7
137.5°	244.4	227.9	212.8	200.6	189.9	181.9	176.5	174.7	176.5	181.9	189.9
140°	247.5	231.9	217.1	205.3	195.0	186.7	181.2	179.8	181.2	186.7	195.0
142.5°	249.9	235.4	221.0	209.7	199.7	191.7	186.8	185.3	186.8	191.7	199.7
145°	252.4	239.2	226.4	215.6	206.3	199.4	194.5	193.0	194.5	199.4	206.3
147.5°	254.7	243.1	231.2	221.4	213.6	206.6	202.2	201.7	202.2	206.6	213.6
150°	255.9	245.1	234.3	225.0	217.6	211.7	207.8	207.2	207.8	211.7	217.6
152.5°	256.7	246.7	237.0	228.5	221.9	216.4	212.5	212.4	212.5	216.4	221.9
155°	257.4	249.0	240.6	233.3	227.9	223.0	220.1	219.6	220.1	223.0	227.9
157.5°	257.4	250.7	243.6	237.8	233.1	229.3	226.5	226.5	226.5	229.3	233.1
160°	257.4	251.5	245.6	240.1	236.3	232.8	230.8	230.8	230.8	232.8	236.3
162.5°	257.4	252.3	246.8	242.5	239.0	235.9	234.4	234.8	234.4	235.9	239.0
165°	256.4	252.4	248.1	245.1	242.6	240.1	239.2	239.2	239.2	240.1	242.6
167.5°	255.2	252.4	249.1	246.8	245.5	243.6	243.1	243.6	243.1	243.6	245.5
170°	254.4	251.9	249.5	248.1	247.0	245.6	245.1	245.6	245.1	245.6	247.0
172.5°	253.7	251.6	249.9	248.8	248.2	247.1	247.0	247.5	247.0	247.1	248.2
175°	252.4	251.0	250.0	250.0	249.5	249.0	249.0	249.5	249.0	249.0	249.5
177.5°	251.2	250.4	250.0	250.0	250.0	249.6	250.0	250.4	250.0	249.6	250.0
180°	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0



TEST NUMBER: P332903-935

CATALOG NUMBER: SA4XXRDIP-C575D590U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5
2.5°	816.5	813.8	810.3	806.2	801.4	797.2	795.3	796.9	797.7	795.6	795.3
5°	791.6	783.3	776.5	766.5	758.5	751.7	747.0	745.0	745.7	740.4	739.0
7.5°	763.6	753.7	742.8	730.8	719.7	709.9	704.7	701.9	696.2	693.8	689.7
10°	745.7	732.3	721.6	707.5	694.8	683.0	677.3	672.7	667.0	664.3	658.6
12.5°	727.2	711.7	699.9	685.3	672.3	658.1	652.7	644.0	635.1	629.5	622.2
15°	701.1	682.4	668.0	650.6	635.2	619.1	604.7	588.6	582.6	569.8	562.5
17.5°	670.6	651.6	633.8	610.4	586.7	566.7	551.3	536.0	526.7	518.6	514.8
20°	650.6	633.2	608.4	581.3	554.7	532.6	520.2	510.2	500.2	494.5	490.4
22.5°	631.5	609.3	580.5	551.2	524.8	507.5	497.0	486.6	478.5	473.0	467.7
25°	599.7	570.5	540.0	506.5	488.4	473.4	461.9	453.6	448.6	441.5	438.9
27.5°	566.9	531.6	497.9	475.4	456.6	442.8	432.9	426.6	420.3	415.7	412.2
30°	541.7	505.8	475.7	454.3	435.1	423.8	415.7	408.4	403.4	399.7	397.0
32.5°	516.8	481.0	455.6	432.6	417.5	406.4	397.8	392.3	388.3	383.6	381.9
35°	480.7	448.9	426.8	406.0	390.6	380.6	373.8	368.2	364.8	363.5	362.5
37.5°	446.1	420.0	396.2	379.2	365.5	357.6	349.7	346.9	344.6	342.2	343.3
40°	424.1	399.7	378.6	360.5	349.4	340.7	336.0	332.7	330.6	330.6	330.6
42.5°	405.1	381.2	360.6	344.4	333.3	326.0	320.7	317.9	317.3	316.9	318.6
45°	375.6	353.4	332.7	319.3	309.9	302.5	299.5	297.1	297.1	298.5	298.9
47.5°	346.3	325.5	308.8	293.9	285.2	280.7	278.0	276.8	277.0	278.3	279.8
50°	328.3	307.9	291.4	278.0	270.0	265.6	263.3	262.6	263.3	263.3	265.6
52.5°	308.8	290.4	274.3	263.0	253.9	249.9	248.6	247.6	248.1	249.1	250.1
55°	280.1	263.6	248.2	237.5	230.8	228.2	225.2	225.5	224.8	225.5	225.5
57.5°	251.3	236.6	222.2	213.7	207.8	204.0	200.7	201.6	200.6	200.4	199.9
60°	232.8	216.7	205.3	197.7	191.0	187.6	184.6	185.3	184.3	183.6	182.3
62.5°	212.8	199.3	188.5	181.1	175.6	171.8	168.8	168.1	165.7	163.5	160.5
65°	183.6	172.5	162.8	155.8	150.8	147.7	145.4	143.4	138.4	133.0	130.4
67.5°	155.2	147.2	138.2	132.2	128.2	124.2	119.8	116.3	111.6	108.7	107.0
70°	137.0	129.3	121.6	115.9	111.6	107.9	102.8	100.5	97.1	95.8	94.1
72.5°	119.6	112.4	105.2	100.1	95.5	92.6	88.7	86.3	84.8	84.3	82.6
75°	93.2	87.5	82.1	77.4	73.7	71.7	70.0	68.4	67.7	64.7	62.9
77.5°	67.9	64.1	60.9	57.5	54.8	53.6	50.3	48.4	47.3	45.8	45.5
80°	53.0	50.3	46.9	44.9	41.2	39.9	38.5	38.2	37.9	37.5	37.2
82.5°	39.8	37.1	33.8	32.5	31.6	30.7	30.0	29.6	29.3	29.4	29.4
85°	20.1	18.8	18.8	18.4	18.1	17.7	17.4	17.4	17.0	17.4	17.0
87.5°	7.5	7.2	7.8	7.2	7.7	7.9	7.6	7.7	8.0	7.6	7.6
90°	4.0	4.0	6.9	6.9	7.8	8.9	8.4	8.9	9.3	9.8	9.8
92.5°	25.9	36.2	61.1	99.2	136.4	155.8	129.8	96.4	72.6	57.8	48.0
95°	40.7	61.4	104.1	184.7	302.0	400.3	411.6	363.9	287.8	222.0	174.4
97.5°	49.3	66.6	99.5	166.0	282.8	421.6	517.1	537.7	509.5	461.4	410.1
100°	56.0	71.7	100.7	156.2	256.4	394.9	520.6	592.4	602.2	578.1	541.7
102.5°	63.5	78.4	104.6	153.4	238.7	361.5	491.1	589.6	638.3	645.3	630.2
105°	76.1	90.4	113.9	154.7	223.5	322.2	437.6	550.1	635.1	683.7	703.9
107.5°	89.2	103.2	124.8	162.0	220.8	300.2	394.4	494.0	584.4	653.0	696.7
110°	98.2	111.5	133.1	167.5	221.5	292.7	372.8	460.2	545.2	616.4	670.5



TEST NUMBER: P332903-935

CATALOG NUMBER: SA4XXRDIP-C575D590U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	106.9	120.1	140.9	173.4	223.9	289.2	360.6	435.5	510.6	577.9	631.9
115°	120.4	133.6	153.3	182.7	228.4	287.3	349.2	410.6	471.1	528.5	575.7
117.5°	132.7	146.5	165.1	192.3	233.2	286.8	344.1	398.4	448.4	493.6	533.6
120°	140.9	154.7	173.4	198.9	236.8	286.8	341.4	393.0	438.6	477.9	512.7
122.5°	149.2	162.6	181.2	205.2	240.3	286.5	338.2	388.2	432.3	468.0	498.6
125°	160.6	174.4	192.0	214.6	245.6	285.9	333.0	380.1	422.4	456.2	483.3
127.5°	171.1	184.9	202.1	222.8	249.8	284.7	326.1	370.3	410.7	444.5	470.1
130°	177.8	192.0	208.7	227.9	253.0	284.4	321.7	362.5	401.3	434.6	460.7
132.5°	184.1	197.5	214.2	233.0	255.7	284.0	317.8	354.2	390.6	423.3	449.3
135°	193.0	205.8	222.0	239.7	259.8	283.4	311.9	342.9	374.8	404.7	429.3
137.5°	200.6	212.8	227.9	244.4	262.3	283.3	306.8	332.5	359.6	384.8	407.0
140°	205.3	217.1	231.9	247.5	264.2	282.9	304.0	326.6	349.7	371.8	392.4
142.5°	209.7	221.0	235.4	249.9	265.8	282.9	301.7	321.2	341.5	360.4	378.3
145°	215.6	226.4	239.2	252.4	266.7	281.9	297.6	313.3	330.0	344.8	358.5
147.5°	221.4	231.2	243.1	254.7	267.2	280.2	294.0	306.9	320.2	332.0	342.9
150°	225.0	234.3	245.1	255.9	267.2	279.0	291.3	303.1	314.4	324.2	333.0
152.5°	228.5	237.0	246.7	256.7	266.4	277.0	288.1	298.7	308.4	317.5	324.8
155°	233.3	240.6	249.0	257.4	265.2	274.1	283.4	292.2	300.1	307.5	313.3
157.5°	237.8	243.6	250.7	257.4	264.0	271.0	278.6	285.2	291.9	298.0	302.7
160°	240.1	245.6	251.5	257.4	262.8	268.6	275.1	280.9	286.4	291.7	295.7
162.5°	242.5	246.8	252.3	257.4	261.6	266.3	271.9	276.6	281.2	285.4	289.0
165°	245.1	248.1	252.4	256.4	259.3	262.8	266.7	270.6	273.5	277.0	279.5
167.5°	246.8	249.1	252.4	255.2	257.0	259.2	262.0	264.8	267.1	269.8	271.3
170°	248.1	249.5	251.9	254.4	255.4	256.8	258.8	261.3	262.8	264.8	266.2
172.5°	248.8	249.9	251.6	253.7	253.8	254.5	256.1	258.1	259.2	260.5	261.5
175°	250.0	250.0	251.0	252.4	251.9	251.9	253.0	253.9	254.4	255.4	255.4
177.5°	250.0	250.0	250.4	251.2	250.4	250.4	250.8	251.2	251.6	251.6	251.9
180°	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0



TEST NUMBER: P332903-935

CATALOG NUMBER: SA4XXRDIP-C575D590U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5
2.5°	793.7	794.2	792.4	791.8	792.4	794.2	793.7	795.3	795.6	797.7	796.9
5°	736.3	735.6	734.0	734.3	734.0	735.6	736.3	739.0	740.4	745.7	745.0
7.5°	687.3	684.7	685.4	682.7	685.4	684.7	687.3	689.7	693.8	696.2	701.9
10°	657.3	653.6	650.6	647.9	650.6	653.6	657.3	658.6	664.3	667.0	672.7
12.5°	616.3	613.1	609.0	609.8	609.0	613.1	616.3	622.2	629.5	635.1	644.0
15°	558.1	553.1	545.0	546.0	545.0	553.1	558.1	562.5	569.8	582.6	588.6
17.5°	508.9	508.9	505.2	506.1	505.2	508.9	508.9	514.8	518.6	526.7	536.0
20°	483.4	481.0	481.4	480.4	481.4	481.0	483.4	490.4	494.5	500.2	510.2
22.5°	465.7	462.9	460.5	458.4	460.5	462.9	465.7	467.7	473.0	478.5	486.6
25°	435.8	433.9	430.8	430.2	430.8	433.9	435.8	438.9	441.5	448.6	453.6
27.5°	409.6	409.1	407.9	406.4	407.9	409.1	409.6	412.2	415.7	420.3	426.6
30°	394.3	393.6	393.0	391.9	393.0	393.6	394.3	397.0	399.7	403.4	408.4
32.5°	380.6	380.2	379.5	379.6	379.5	380.2	380.6	381.9	383.6	388.3	392.3
35°	361.1	360.8	360.2	359.8	360.2	360.8	361.1	362.5	363.5	364.8	368.2
37.5°	342.9	343.8	343.4	343.3	343.4	343.8	342.9	343.3	342.2	344.6	346.9
40°	330.3	330.6	331.3	331.0	331.3	330.6	330.3	330.6	330.6	330.6	332.7
42.5°	319.9	319.9	320.9	319.7	320.9	319.9	319.9	318.6	316.9	317.3	317.9
45°	301.2	303.2	302.8	302.8	302.8	303.2	301.2	298.9	298.5	297.1	297.1
47.5°	280.7	282.5	282.9	282.8	282.9	282.5	280.7	279.8	278.3	277.0	276.8
50°	267.3	266.7	267.7	267.3	267.7	266.7	267.3	265.6	263.3	263.3	262.6
52.5°	251.0	251.2	251.1	250.7	251.1	251.2	251.0	250.1	249.1	248.1	247.6
55°	225.8	226.1	225.5	225.8	225.5	226.1	225.8	225.5	225.5	224.8	225.5
57.5°	198.5	196.8	197.5	196.7	197.5	196.8	198.5	199.9	200.4	200.6	201.6
60°	178.9	176.2	175.6	174.2	175.6	176.2	178.9	182.3	183.6	184.3	185.3
62.5°	156.9	155.1	152.7	153.9	152.7	155.1	156.9	160.5	163.5	165.7	168.1
65°	127.6	126.3	125.3	126.7	125.3	126.3	127.6	130.4	133.0	138.4	143.4
67.5°	105.6	105.0	105.0	104.3	105.0	105.0	105.6	107.0	108.7	111.6	116.3
70°	94.1	93.2	93.2	92.5	93.2	93.2	94.1	94.1	95.8	97.1	100.5
72.5°	82.3	81.4	81.6	81.2	81.6	81.4	82.3	82.6	84.3	84.8	86.3
75°	61.0	59.3	59.3	59.7	59.3	59.3	61.0	62.9	64.7	67.7	68.4
77.5°	45.5	45.1	45.6	45.0	45.6	45.1	45.5	45.5	45.8	47.3	48.4
80°	37.2	36.9	36.5	37.5	36.5	36.9	37.2	37.2	37.5	37.9	38.2
82.5°	28.8	28.8	28.8	30.0	28.8	28.8	28.8	29.4	29.4	29.3	29.6
85°	17.4	16.8	17.4	16.8	17.4	16.8	17.4	17.0	17.4	17.0	17.4
87.5°	8.3	8.1	7.7	7.9	7.7	8.1	8.3	7.6	7.6	8.0	7.7
90°	10.3	10.8	10.3	10.3	10.3	10.8	10.3	9.8	9.8	9.3	8.9
92.5°	42.1	39.5	37.8	37.8	37.8	39.5	42.1	48.0	57.8	72.6	96.4
95°	150.3	135.1	126.2	119.9	126.2	135.1	150.3	174.4	222.0	287.8	363.9
97.5°	374.9	345.3	330.5	320.3	330.5	345.3	374.9	410.1	461.4	509.5	537.7
100°	499.0	469.1	454.3	450.4	454.3	469.1	499.0	541.7	578.1	602.2	592.4
102.5°	603.9	582.2	566.7	563.5	566.7	582.2	603.9	630.2	645.3	638.3	589.6
105°	704.8	700.9	694.0	691.0	694.0	700.9	704.8	703.9	683.7	635.1	550.1
107.5°	721.0	732.2	737.1	738.4	737.1	732.2	721.0	696.7	653.0	584.4	494.0
110°	705.3	725.9	734.8	739.2	734.8	725.9	705.3	670.5	616.4	545.2	460.2



TEST NUMBER: P332903-935

CATALOG NUMBER: SA4XXRDIP-C575D590U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	671.5	696.5	708.9	716.0	708.9	696.5	671.5	631.9	577.9	510.6	435.5
115°	614.4	643.9	659.6	663.6	659.6	643.9	614.4	575.7	528.5	471.1	410.6
117.5°	566.7	591.4	607.3	610.4	607.3	591.4	566.7	533.6	493.6	448.4	398.4
120°	540.8	562.4	575.1	580.6	575.1	562.4	540.8	512.7	477.9	438.6	393.0
122.5°	522.3	540.8	551.6	557.0	551.6	540.8	522.3	498.6	468.0	432.3	388.2
125°	502.9	517.2	526.5	529.4	526.5	517.2	502.9	483.3	456.2	422.4	380.1
127.5°	489.9	502.6	510.4	513.3	510.4	502.6	489.9	470.1	444.5	410.7	370.3
130°	480.9	493.1	501.0	503.9	501.0	493.1	480.9	460.7	434.6	401.3	362.5
132.5°	469.1	482.9	490.3	493.4	490.3	482.9	469.1	449.3	423.3	390.6	354.2
135°	448.9	462.7	470.5	473.5	470.5	462.7	448.9	429.3	404.7	374.8	342.9
137.5°	425.3	438.9	445.4	448.9	445.4	438.9	425.3	407.0	384.8	359.6	332.5
140°	409.7	420.4	427.3	431.3	427.3	420.4	409.7	392.4	371.8	349.7	326.6
142.5°	393.5	403.6	409.7	412.3	409.7	403.6	393.5	378.3	360.4	341.5	321.2
145°	370.8	379.2	384.1	386.5	384.1	379.2	370.8	358.5	344.8	330.0	313.3
147.5°	351.9	359.0	362.7	363.7	362.7	359.0	351.9	342.9	332.0	320.2	306.9
150°	340.9	347.2	350.2	350.7	350.2	347.2	340.9	333.0	324.2	314.4	303.1
152.5°	331.4	336.7	338.4	338.9	338.4	336.7	331.4	324.8	317.5	308.4	298.7
155°	318.3	322.2	323.6	323.6	323.6	322.2	318.3	313.3	307.5	300.1	292.2
157.5°	306.5	309.4	310.3	310.3	310.3	309.4	306.5	302.7	298.0	291.9	285.2
160°	298.6	301.6	302.0	302.0	302.0	301.6	298.6	295.7	291.7	286.4	280.9
162.5°	291.2	294.1	294.6	294.2	294.6	294.1	291.2	289.0	285.4	281.2	276.6
165°	281.5	283.4	282.9	282.4	282.9	283.4	281.5	279.5	277.0	273.5	270.6
167.5°	272.3	273.5	273.5	273.1	273.5	273.5	272.3	271.3	269.8	267.1	264.8
170°	267.2	267.7	267.2	267.2	267.2	267.7	267.2	266.2	264.8	262.8	261.3
172.5°	262.1	262.6	262.1	261.3	262.1	262.6	262.1	261.5	260.5	259.2	258.1
175°	255.4	256.4	255.4	254.4	255.4	256.4	255.4	255.4	255.4	254.4	253.9
177.5°	251.6	251.9	251.2	250.4	251.2	251.9	251.6	251.9	251.6	251.6	251.2
180°	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0



TEST NUMBER: P332903-935

CATALOG NUMBER: SA4XXRDIP-C575D590U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5
2.5°	795.3	797.2	801.4	806.2	810.3	813.8	816.5	820.2	823.7	828.5	833.1
5°	747.0	751.7	758.5	766.5	776.5	783.3	791.6	799.0	809.7	820.4	830.8
7.5°	704.7	709.9	719.7	730.8	742.8	753.7	763.6	776.6	790.8	806.5	823.9
10°	677.3	683.0	694.8	707.5	721.6	732.3	745.7	761.1	777.2	796.3	817.7
12.5°	652.7	658.1	672.3	685.3	699.9	711.7	727.2	742.9	764.3	785.1	809.4
15°	604.7	619.1	635.2	650.6	668.0	682.4	701.1	717.2	737.7	766.8	794.6
17.5°	551.3	566.7	586.7	610.4	633.8	651.6	670.6	690.6	715.0	744.7	776.8
20°	520.2	532.6	554.7	581.3	608.4	633.2	650.6	672.7	697.8	730.0	763.1
22.5°	497.0	507.5	524.8	551.2	580.5	609.3	631.5	653.4	681.2	713.3	749.5
25°	461.9	473.4	488.4	506.5	540.0	570.5	599.7	624.7	654.3	686.4	726.6
27.5°	432.9	442.8	456.6	475.4	497.9	531.6	566.9	595.6	625.8	660.3	700.5
30°	415.7	423.8	435.1	454.3	475.7	505.8	541.7	575.2	605.7	641.5	683.4
32.5°	397.8	406.4	417.5	432.6	455.6	481.0	516.8	553.5	585.8	622.5	663.6
35°	373.8	380.6	390.6	406.0	426.8	448.9	480.7	518.6	552.8	591.9	631.1
37.5°	349.7	357.6	365.5	379.2	396.2	420.0	446.1	484.7	522.6	558.4	596.7
40°	336.0	340.7	349.4	360.5	378.6	399.7	424.1	461.9	499.8	535.4	573.9
42.5°	320.7	326.0	333.3	344.4	360.6	381.2	405.1	437.8	477.3	511.8	546.8
45°	299.5	302.5	309.9	319.3	332.7	353.4	375.6	404.7	441.9	474.7	505.5
47.5°	278.0	280.7	285.2	293.9	308.8	325.5	346.3	372.4	405.0	437.8	463.9
50°	263.3	265.6	270.0	278.0	291.4	307.9	328.3	351.7	380.9	412.4	434.1
52.5°	248.6	249.9	253.9	263.0	274.3	290.4	308.8	330.3	357.6	383.7	405.8
55°	225.2	228.2	230.8	237.5	248.2	263.6	280.1	300.5	321.6	343.7	362.5
57.5°	200.7	204.0	207.8	213.7	222.2	236.6	251.3	267.9	285.9	304.3	319.9
60°	184.6	187.6	191.0	197.7	205.3	216.7	232.8	247.2	261.0	277.7	293.4
62.5°	168.8	171.8	175.6	181.1	188.5	199.3	212.8	225.2	239.5	254.2	265.9
65°	145.4	147.7	150.8	155.8	162.8	172.5	183.6	193.3	206.0	216.7	227.5
67.5°	119.8	124.2	128.2	132.2	138.2	147.2	155.2	164.5	173.2	181.2	191.0
70°	102.8	107.9	111.6	115.9	121.6	129.3	137.0	143.4	150.4	158.1	166.9
72.5°	88.7	92.6	95.5	100.1	105.2	112.4	119.6	124.8	130.6	135.9	144.3
75°	70.0	71.7	73.7	77.4	82.1	87.5	93.2	97.8	101.2	105.8	111.9
77.5°	50.3	53.6	54.8	57.5	60.9	64.1	67.9	71.9	75.1	76.8	81.4
80°	38.5	39.9	41.2	44.9	46.9	50.3	53.0	56.7	57.9	59.7	64.0
82.5°	30.0	30.7	31.6	32.5	33.8	37.1	39.8	42.1	43.5	44.1	47.4
85°	17.4	17.7	18.1	18.4	18.8	18.8	20.1	21.8	24.1	24.1	25.1
87.5°	7.6	7.9	7.7	7.2	7.8	7.2	7.5	7.4	8.1	8.6	9.2
90°	8.4	8.9	7.8	6.9	6.9	4.0	4.0	3.4	2.9	1.5	0.5
92.5°	129.8	155.8	136.4	99.2	61.1	36.2	25.9	18.8	12.7	8.2	5.6
95°	411.6	400.3	302.0	184.7	104.1	61.4	40.7	29.0	22.6	17.7	16.2
97.5°	517.1	421.6	282.8	166.0	99.5	66.6	49.3	39.2	33.3	29.1	29.1
100°	520.6	394.9	256.4	156.2	100.7	71.7	56.0	46.7	40.7	37.4	37.4
102.5°	491.1	361.5	238.7	153.4	104.6	78.4	63.5	54.5	49.0	46.0	45.2
105°	437.6	322.2	223.5	154.7	113.9	90.4	76.1	67.3	61.4	59.0	57.4
107.5°	394.4	300.2	220.8	162.0	124.8	103.2	89.2	80.8	74.5	72.0	71.0
110°	372.8	292.7	221.5	167.5	133.1	111.5	98.2	89.4	83.5	81.0	80.1



TEST NUMBER: P332903-935

CATALOG NUMBER: SA4XXRDIP-C575D590U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	360.6	289.2	223.9	173.4	140.9	120.1	106.9	98.1	92.6	89.7	88.7
115°	349.2	287.3	228.4	182.7	153.3	133.6	120.4	111.0	106.1	102.6	101.2
117.5°	344.1	286.8	233.2	192.3	165.1	146.5	132.7	124.0	118.6	115.5	114.2
120°	341.4	286.8	236.8	198.9	173.4	154.7	140.9	132.6	127.2	123.8	122.8
122.5°	338.2	286.5	240.3	205.2	181.2	162.6	149.2	140.1	135.1	131.6	130.6
125°	333.0	285.9	245.6	214.6	192.0	174.4	160.6	151.3	145.9	142.9	140.9
127.5°	326.1	284.7	249.8	222.8	202.1	184.9	171.1	161.4	155.2	151.7	150.1
130°	321.7	284.4	253.0	227.9	208.7	192.0	177.8	168.5	161.1	157.1	155.2
132.5°	317.8	284.0	255.7	233.0	214.2	197.5	184.1	174.0	167.0	161.9	160.3
135°	311.9	283.4	259.8	239.7	222.0	205.8	193.0	182.7	174.4	169.4	167.5
137.5°	306.8	283.3	262.3	244.4	227.9	212.8	200.6	189.9	181.9	176.5	174.7
140°	304.0	282.9	264.2	247.5	231.9	217.1	205.3	195.0	186.7	181.2	179.8
142.5°	301.7	282.9	265.8	249.9	235.4	221.0	209.7	199.7	191.7	186.8	185.3
145°	297.6	281.9	266.7	252.4	239.2	226.4	215.6	206.3	199.4	194.5	193.0
147.5°	294.0	280.2	267.2	254.7	243.1	231.2	221.4	213.6	206.6	202.2	201.7
150°	291.3	279.0	267.2	255.9	245.1	234.3	225.0	217.6	211.7	207.8	207.2
152.5°	288.1	277.0	266.4	256.7	246.7	237.0	228.5	221.9	216.4	212.5	212.4
155°	283.4	274.1	265.2	257.4	249.0	240.6	233.3	227.9	223.0	220.1	219.6
157.5°	278.6	271.0	264.0	257.4	250.7	243.6	237.8	233.1	229.3	226.5	226.5
160°	275.1	268.6	262.8	257.4	251.5	245.6	240.1	236.3	232.8	230.8	230.8
162.5°	271.9	266.3	261.6	257.4	252.3	246.8	242.5	239.0	235.9	234.4	234.8
165°	266.7	262.8	259.3	256.4	252.4	248.1	245.1	242.6	240.1	239.2	239.2
167.5°	262.0	259.2	257.0	255.2	252.4	249.1	246.8	245.5	243.6	243.1	243.6
170°	258.8	256.8	255.4	254.4	251.9	249.5	248.1	247.0	245.6	245.1	245.6
172.5°	256.1	254.5	253.8	253.7	251.6	249.9	248.8	248.2	247.1	247.0	247.5
175°	253.0	251.9	251.9	252.4	251.0	250.0	250.0	249.5	249.0	249.0	249.5
177.5°	250.8	250.4	250.4	251.2	250.4	250.0	250.0	250.0	249.6	250.0	250.4
180°	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0



TEST NUMBER: P332903-935

CATALOG NUMBER: SA4XXRDIP-C575D590U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5	831.5
2.5°	836.5	839.0	841.6	846.7	851.0	852.9	856.7	859.4	858.5	862.3	868.7
5°	839.8	848.9	859.3	870.0	882.0	892.1	900.2	908.2	914.6	922.2	933.7
7.5°	839.3	855.4	872.9	892.1	911.9	928.9	944.8	960.9	975.1	990.8	1011.2
10°	837.2	858.6	880.4	905.5	930.7	954.4	975.9	995.9	1015.0	1035.4	1061.3
12.5°	834.7	859.4	885.7	915.9	947.3	975.9	1001.1	1030.0	1053.9	1080.2	1110.1
15°	824.1	857.3	893.1	932.3	969.8	1008.3	1042.8	1078.4	1111.6	1143.0	1180.5
17.5°	811.9	850.2	892.4	938.7	983.9	1030.6	1071.6	1116.4	1150.2	1192.5	1227.4
20°	802.0	843.2	888.4	940.3	991.6	1043.5	1088.7	1134.3	1172.5	1215.0	1259.3
22.5°	790.0	835.2	884.2	937.9	991.6	1048.4	1098.4	1143.7	1191.0	1238.9	1284.4
25°	770.5	817.4	869.4	928.2	989.9	1047.8	1101.5	1157.8	1208.7	1260.6	1301.5
27.5°	746.7	795.9	850.7	911.5	974.7	1034.1	1097.2	1157.2	1208.4	1258.4	1294.0
30°	727.6	779.5	832.2	893.8	959.4	1023.1	1090.7	1150.7	1204.6	1249.6	1269.6
32.5°	708.1	757.3	811.5	873.9	941.2	1009.7	1076.9	1138.2	1188.0	1215.0	1215.5
35°	674.0	720.2	776.5	837.8	906.8	981.2	1049.2	1109.5	1140.0	1142.4	1109.5
37.5°	636.9	679.3	732.5	793.8	869.4	943.4	1012.8	1053.0	1063.2	1029.2	968.5
40°	610.4	649.5	700.9	763.8	838.9	915.2	978.5	1008.0	997.3	942.0	874.3
42.5°	582.5	619.0	668.4	730.6	805.9	883.0	937.0	952.8	924.4	860.6	781.4
45°	537.0	570.5	619.4	682.1	754.4	826.8	867.6	859.6	812.4	736.7	647.9
47.5°	489.7	522.0	566.0	624.0	698.1	760.5	788.2	764.0	696.7	613.5	541.2
50°	458.3	491.5	532.0	587.3	655.0	715.2	733.0	696.1	621.4	541.4	475.0
52.5°	427.5	455.8	495.5	548.9	613.6	664.6	674.0	631.5	554.4	482.7	423.9
55°	380.6	406.4	439.9	490.1	546.0	589.3	584.3	529.6	459.6	398.3	352.1
57.5°	335.2	354.6	385.6	432.7	481.8	510.8	492.4	445.9	380.6	330.5	291.4
60°	305.2	323.3	352.1	393.3	436.5	452.9	437.5	386.9	335.4	289.5	256.6
62.5°	276.8	292.7	317.5	355.8	390.6	400.4	383.9	339.8	293.3	254.1	226.9
65°	235.5	250.2	271.4	298.5	322.6	327.3	316.6	271.4	236.2	203.4	184.6
67.5°	198.0	207.7	224.2	247.6	260.5	263.2	242.5	214.0	183.0	162.9	148.8
70°	172.9	179.5	194.9	207.7	218.1	218.4	199.3	176.5	152.7	136.4	126.0
72.5°	148.4	154.9	166.6	175.3	183.2	180.6	163.2	145.2	126.0	113.6	105.8
75°	114.6	120.3	126.3	130.4	130.4	127.0	114.3	100.8	89.8	82.4	80.1
77.5°	83.3	88.0	90.0	89.4	88.2	82.9	74.9	66.1	62.2	58.7	56.9
80°	65.3	67.3	68.0	66.3	64.3	58.3	53.0	49.2	45.5	44.3	43.6
82.5°	48.5	50.2	48.5	48.9	44.5	39.5	36.6	35.3	33.8	33.2	32.5
85°	25.8	25.5	24.8	23.1	20.1	19.5	19.1	18.8	18.1	18.4	17.7
87.5°	9.1	8.6	7.7	7.5	7.5	7.6	7.8	8.0	8.2	7.8	8.4
90°	1.5	2.9	3.4	4.0	4.0	6.9	6.9	7.8	8.9	8.4	8.9
92.5°	8.2	12.7	18.8	25.9	36.2	61.1	99.2	136.4	155.8	129.8	96.4
95°	17.7	22.6	29.0	40.7	61.4	104.1	184.7	302.0	400.3	411.6	363.9
97.5°	29.1	33.3	39.2	49.3	66.6	99.5	166.0	282.8	421.6	517.1	537.7
100°	37.4	40.7	46.7	56.0	71.7	100.7	156.2	256.4	394.9	520.6	592.4
102.5°	46.0	49.0	54.5	63.5	78.4	104.6	153.4	238.7	361.5	491.1	589.6
105°	59.0	61.4	67.3	76.1	90.4	113.9	154.7	223.5	322.2	437.6	550.1
107.5°	72.0	74.5	80.8	89.2	103.2	124.8	162.0	220.8	300.2	394.4	494.0
110°	81.0	83.5	89.4	98.2	111.5	133.1	167.5	221.5	292.7	372.8	460.2



TEST NUMBER: P332903-935

CATALOG NUMBER: SA4XXRDIP-C575D590U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	89.7	92.6	98.1	106.9	120.1	140.9	173.4	223.9	289.2	360.6	435.5
115°	102.6	106.1	111.0	120.4	133.6	153.3	182.7	228.4	287.3	349.2	410.6
117.5°	115.5	118.6	124.0	132.7	146.5	165.1	192.3	233.2	286.8	344.1	398.4
120°	123.8	127.2	132.6	140.9	154.7	173.4	198.9	236.8	286.8	341.4	393.0
122.5°	131.6	135.1	140.1	149.2	162.6	181.2	205.2	240.3	286.5	338.2	388.2
125°	142.9	145.9	151.3	160.6	174.4	192.0	214.6	245.6	285.9	333.0	380.1
127.5°	151.7	155.2	161.4	171.1	184.9	202.1	222.8	249.8	284.7	326.1	370.3
130°	157.1	161.1	168.5	177.8	192.0	208.7	227.9	253.0	284.4	321.7	362.5
132.5°	161.9	167.0	174.0	184.1	197.5	214.2	233.0	255.7	284.0	317.8	354.2
135°	169.4	174.4	182.7	193.0	205.8	222.0	239.7	259.8	283.4	311.9	342.9
137.5°	176.5	181.9	189.9	200.6	212.8	227.9	244.4	262.3	283.3	306.8	332.5
140°	181.2	186.7	195.0	205.3	217.1	231.9	247.5	264.2	282.9	304.0	326.6
142.5°	186.8	191.7	199.7	209.7	221.0	235.4	249.9	265.8	282.9	301.7	321.2
145°	194.5	199.4	206.3	215.6	226.4	239.2	252.4	266.7	281.9	297.6	313.3
147.5°	202.2	206.6	213.6	221.4	231.2	243.1	254.7	267.2	280.2	294.0	306.9
150°	207.8	211.7	217.6	225.0	234.3	245.1	255.9	267.2	279.0	291.3	303.1
152.5°	212.5	216.4	221.9	228.5	237.0	246.7	256.7	266.4	277.0	288.1	298.7
155°	220.1	223.0	227.9	233.3	240.6	249.0	257.4	265.2	274.1	283.4	292.2
157.5°	226.5	229.3	233.1	237.8	243.6	250.7	257.4	264.0	271.0	278.6	285.2
160°	230.8	232.8	236.3	240.1	245.6	251.5	257.4	262.8	268.6	275.1	280.9
162.5°	234.4	235.9	239.0	242.5	246.8	252.3	257.4	261.6	266.3	271.9	276.6
165°	239.2	240.1	242.6	245.1	248.1	252.4	256.4	259.3	262.8	266.7	270.6
167.5°	243.1	243.6	245.5	246.8	249.1	252.4	255.2	257.0	259.2	262.0	264.8
170°	245.1	245.6	247.0	248.1	249.5	251.9	254.4	255.4	256.8	258.8	261.3
172.5°	247.0	247.1	248.2	248.8	249.9	251.6	253.7	253.8	254.5	256.1	258.1
175°	249.0	249.0	249.5	250.0	250.0	251.0	252.4	251.9	251.9	253.0	253.9
177.5°	250.0	249.6	250.0	250.0	250.0	250.4	251.2	250.4	250.4	250.8	251.2
180°	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0



TEST NUMBER: P332903-935

CATALOG NUMBER: SA4XXRDIP-C575D590U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	831.5	831.5	831.5	831.5	831.5	831.5	831.5
2.5°	872.2	873.3	874.1	876.8	877.0	879.4	877.0
5°	944.3	949.1	956.4	963.8	964.5	969.1	960.8
7.5°	1025.3	1036.1	1042.9	1054.8	1059.5	1062.5	1057.7
10°	1081.1	1091.1	1108.9	1117.6	1126.3	1127.6	1123.6
12.5°	1134.9	1150.8	1164.8	1181.4	1180.9	1192.7	1188.4
15°	1206.7	1223.1	1242.5	1260.9	1267.7	1267.7	1273.0
17.5°	1257.8	1288.0	1308.0	1322.5	1338.3	1341.1	1339.2
20°	1292.4	1324.9	1346.3	1365.1	1375.9	1378.9	1378.9
22.5°	1318.2	1345.8	1366.8	1383.6	1392.5	1396.0	1394.9
25°	1336.0	1359.8	1372.5	1377.5	1379.8	1379.1	1372.9
27.5°	1311.6	1310.5	1302.4	1287.0	1275.5	1268.4	1260.4
30°	1265.0	1247.5	1227.4	1205.3	1176.8	1155.0	1148.4
32.5°	1195.6	1156.4	1122.4	1085.5	1054.9	1033.1	1024.0
35°	1061.3	999.3	948.7	904.5	872.4	852.2	845.5
37.5°	902.0	842.0	779.4	736.5	709.8	689.5	681.9
40°	800.6	735.3	680.7	640.5	613.0	593.3	593.0
42.5°	708.2	645.8	594.4	565.5	535.9	522.8	522.7
45°	579.9	529.9	486.4	463.6	445.9	435.1	432.1
47.5°	480.1	438.9	409.8	391.7	377.2	370.4	365.9
50°	424.1	388.0	364.8	349.0	341.0	332.3	331.7
52.5°	377.5	348.3	330.3	317.5	307.3	302.0	302.2
55°	317.3	294.1	281.4	271.6	263.6	259.6	258.0
57.5°	267.3	249.9	240.6	231.8	228.3	225.2	224.3
60°	236.2	224.5	215.8	208.7	203.7	202.7	202.3
62.5°	210.4	198.2	192.2	186.8	183.0	181.5	180.9
65°	173.5	164.5	159.1	154.8	153.4	151.1	150.8
67.5°	139.9	134.5	131.0	127.9	126.1	126.0	126.0
70°	119.2	116.2	113.2	111.6	110.6	109.9	109.9
72.5°	101.6	99.4	96.9	96.0	95.8	95.1	94.9
75°	77.4	75.1	75.3	73.7	72.3	70.7	69.7
77.5°	54.8	53.2	52.9	52.7	51.5	51.3	51.8
80°	42.5	40.9	40.6	40.9	40.6	39.5	39.5
82.5°	32.4	31.0	30.7	30.4	30.0	30.4	29.9
85°	17.4	16.8	16.8	16.8	17.4	17.0	16.8
87.5°	8.0	7.8	8.1	7.9	8.1	7.7	7.9
90°	9.3	9.8	9.8	10.3	10.8	10.3	10.3
92.5°	72.6	57.8	48.0	42.1	39.5	37.8	37.8
95°	287.8	222.0	174.4	150.3	135.1	126.2	119.9
97.5°	509.5	461.4	410.1	374.9	345.3	330.5	320.3
100°	602.2	578.1	541.7	499.0	469.1	454.3	450.4
102.5°	638.3	645.3	630.2	603.9	582.2	566.7	563.5
105°	635.1	683.7	703.9	704.8	700.9	694.0	691.0
107.5°	584.4	653.0	696.7	721.0	732.2	737.1	738.4
110°	545.2	616.4	670.5	705.3	725.9	734.8	739.2



TEST NUMBER: P332903-935
 CATALOG NUMBER: SA4XXRDIP-C575D590U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	510.6	577.9	631.9	671.5	696.5	708.9	716.0
115°	471.1	528.5	575.7	614.4	643.9	659.6	663.6
117.5°	448.4	493.6	533.6	566.7	591.4	607.3	610.4
120°	438.6	477.9	512.7	540.8	562.4	575.1	580.6
122.5°	432.3	468.0	498.6	522.3	540.8	551.6	557.0
125°	422.4	456.2	483.3	502.9	517.2	526.5	529.4
127.5°	410.7	444.5	470.1	489.9	502.6	510.4	513.3
130°	401.3	434.6	460.7	480.9	493.1	501.0	503.9
132.5°	390.6	423.3	449.3	469.1	482.9	490.3	493.4
135°	374.8	404.7	429.3	448.9	462.7	470.5	473.5
137.5°	359.6	384.8	407.0	425.3	438.9	445.4	448.9
140°	349.7	371.8	392.4	409.7	420.4	427.3	431.3
142.5°	341.5	360.4	378.3	393.5	403.6	409.7	412.3
145°	330.0	344.8	358.5	370.8	379.2	384.1	386.5
147.5°	320.2	332.0	342.9	351.9	359.0	362.7	363.7
150°	314.4	324.2	333.0	340.9	347.2	350.2	350.7
152.5°	308.4	317.5	324.8	331.4	336.7	338.4	338.9
155°	300.1	307.5	313.3	318.3	322.2	323.6	323.6
157.5°	291.9	298.0	302.7	306.5	309.4	310.3	310.3
160°	286.4	291.7	295.7	298.6	301.6	302.0	302.0
162.5°	281.2	285.4	289.0	291.2	294.1	294.6	294.2
165°	273.5	277.0	279.5	281.5	283.4	282.9	282.4
167.5°	267.1	269.8	271.3	272.3	273.5	273.5	273.1
170°	262.8	264.8	266.2	267.2	267.7	267.2	267.2
172.5°	259.2	260.5	261.5	262.1	262.6	262.1	261.3
175°	254.4	255.4	255.4	255.4	256.4	255.4	254.4
177.5°	251.6	251.6	251.9	251.6	251.9	251.2	250.4
180°	250.0	250.0	250.0	250.0	250.0	250.0	250.0

(END OF REPORT)