

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: P331893-830

Luminaire Tested: **S123DIP-S340D1025U830-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331893-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIP-S340D1025U830-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1025 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4689.9 lumens
Efficiency: N/A
Efficacy: 125.7 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Indirect

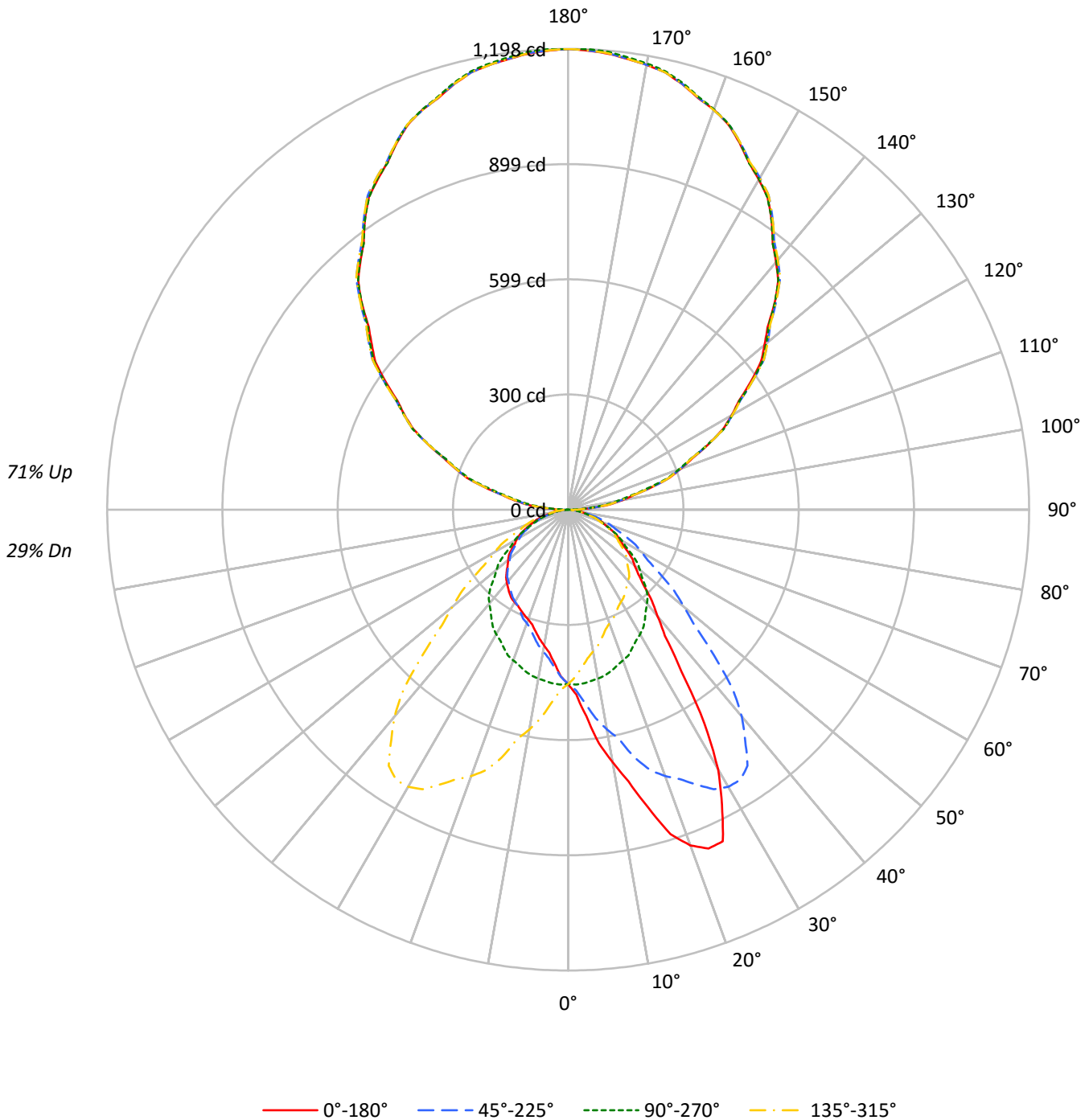
Input Watts (W): 37.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331893-830

CATALOG NUMBER: S123DIP-S340D1025U830-4F0-1E-UDD-A1

Luminous Intensity Polar Plot





TEST NUMBER: P331893-830

CATALOG NUMBER: S123DIP-S340D1025U830-4F0-1E-UDD-A1

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	102	102	102	102	92	92	92	92	72	72	72	54	54	54	37	37	37	29
1	93	89	85	82	83	80	77	74	63	61	59	47	46	45	33	32	32	25
2	85	78	72	67	76	70	65	61	55	52	49	42	40	38	29	28	27	21
3	78	69	62	56	69	62	56	51	49	45	41	37	34	32	26	24	23	18
4	71	61	53	47	63	55	48	43	43	39	35	33	30	27	23	21	20	16
5	65	54	46	40	58	49	42	37	39	34	30	30	26	24	21	19	17	14
6	60	48	41	35	53	44	37	32	35	30	26	27	23	21	19	17	15	12
7	55	43	36	30	49	39	33	28	32	27	23	24	21	18	17	15	14	11
8	51	39	32	27	46	36	29	25	29	24	20	22	19	16	16	14	12	10
9	48	36	29	24	43	32	26	22	26	21	18	20	17	14	15	12	11	9
10	44	33	26	21	40	30	24	19	24	19	16	19	15	13	14	11	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4878	4878	4878	4878
5°	5817	4900	4341	4900
10°	7282	4875	3922	4875
15°	8931	4835	3651	4835
20°	10639	4774	3477	4774
25°	11297	4700	3437	4700
30°	9684	4645	3455	4645
35°	6734	4568	3491	4568
40°	5073	4477	3481	4477
45°	4211	4341	3436	4341
50°	3773	4068	3404	4068
55°	3526	3772	3363	3772
60°	3309	3460	3328	3460
65°	3110	3156	3222	3156
70°	2917	2807	3068	2807
75°	2612	2458	2816	2458
80°	2287	2015	2424	2015
85°	1791	1470	1630	1470



TEST NUMBER: P331893-830

CATALOG NUMBER: S123DIP-S340D1025U830-4F0-1E-UDD-A1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.6	1.0
10°-20°	143.2	3.1
20°-30°	240.3	5.1
30°-40°	272.0	5.8
40°-50°	244.0	5.2
50°-60°	196.9	4.2
60°-70°	137.2	2.9
70°-80°	72.1	1.5
80°-90°	21.2	0.5
90°-100°	78.0	1.7
100°-110°	233.5	5.0
110°-120°	397.2	8.5
120°-130°	522.5	11.1
130°-140°	587.2	12.5
140°-150°	577.2	12.3
150°-160°	486.0	10.4
160°-170°	323.5	6.9
170°-180°	113.3	2.4
0°-30°	428.1	9.1
0°-40°	700.1	14.9
0°-60°	1140.9	24.3
0°-90°	1371.4	29.2
90°-120°	708.8	15.1
90°-150°	2395.7	51.1
90°-180°	3318.0	70.7
0°-180°	4689.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	453	453	453	453	453	
5°	538	454	402	454	538	56
15°	801	434	328	434	801	231
25°	951	396	289	396	951	417
35°	512	348	266	348	512	333
45°	277	285	226	285	277	219
55°	188	201	179	201	188	169
65°	122	124	126	124	122	122
75°	63	59	68	59	63	67
85°	14	12	13	12	14	18
90°	28	1	28	1	28	14
95°	73	56	73	56	73	75
105°	224	212	224	212	224	238
115°	401	400	401	400	401	397
125°	579	585	579	585	579	517
135°	758	759	758	759	758	583
145°	921	921	921	921	921	575
155°	1053	1055	1053	1055	1053	485
165°	1145	1149	1145	1149	1145	323
175°	1190	1195	1190	1195	1190	113
180°	1198	1198	1198	1198	1198	



TEST NUMBER: P331893-830

CATALOG NUMBER: S123DIP-S340D1025U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2
2.5°	481.0	480.6	479.8	480.4	479.0	477.1	476.9	475.1	470.0	469.8	468.3
5°	538.4	536.7	536.4	536.2	533.1	529.0	521.0	520.4	509.8	504.6	498.2
7.5°	612.8	613.7	610.5	607.8	598.3	592.1	583.6	572.8	559.9	546.7	538.0
10°	666.2	673.4	664.5	658.3	652.6	641.9	629.3	613.7	598.1	579.9	566.1
12.5°	723.5	727.0	725.2	719.4	710.6	694.2	672.0	654.8	640.5	610.1	597.9
15°	801.4	814.8	806.3	786.6	786.9	771.4	742.4	710.6	693.6	667.0	630.8
17.5°	884.6	886.2	882.6	866.1	855.2	833.7	806.9	776.5	742.2	710.0	671.6
20°	928.8	927.5	919.8	911.3	892.4	875.7	846.5	812.5	768.5	736.9	694.9
22.5°	953.4	951.2	947.5	940.4	924.7	906.8	880.5	843.4	801.5	758.0	709.5
25°	951.2	954.0	954.5	952.5	947.1	936.3	915.7	886.0	844.3	788.2	737.8
27.5°	865.2	869.2	880.9	891.4	903.0	914.8	913.2	898.5	867.6	819.3	757.5
30°	779.1	770.2	792.0	819.4	838.1	871.1	889.5	890.6	873.3	831.8	771.6
32.5°	659.6	669.3	678.9	712.7	753.5	790.4	827.2	856.7	860.1	832.5	779.9
35°	512.5	524.6	542.2	559.7	603.6	641.4	706.0	762.1	806.9	812.8	780.6
37.5°	413.0	419.0	430.1	447.7	476.4	521.2	571.1	642.2	707.1	755.4	757.4
40°	361.0	362.8	375.2	388.6	411.9	448.8	493.8	556.7	634.3	701.8	729.9
42.5°	322.0	325.8	331.2	344.0	362.6	390.3	432.2	484.1	555.3	632.9	687.9
45°	276.6	281.1	284.4	292.9	306.1	324.8	353.9	401.4	455.6	535.7	609.7
47.5°	246.8	247.0	249.5	256.0	264.9	279.0	299.6	330.1	379.8	444.9	520.8
50°	225.3	228.8	229.7	234.7	241.8	252.0	269.2	295.1	335.9	393.0	462.9
52.5°	210.2	211.2	213.7	217.4	223.5	231.5	246.4	266.6	298.7	347.4	411.6
55°	187.9	187.9	190.4	193.2	196.7	204.0	213.9	228.8	253.2	291.0	344.1
57.5°	167.4	168.5	170.2	171.1	174.1	178.9	187.1	198.5	216.6	245.7	287.9
60°	153.7	155.7	155.4	157.2	159.9	163.6	170.6	179.8	196.0	219.3	255.0
62.5°	141.8	141.7	141.6	143.7	146.3	149.9	154.5	162.4	176.3	196.9	227.2
65°	122.1	121.7	123.2	124.5	125.4	128.0	131.5	138.6	147.8	163.2	186.6
67.5°	104.6	103.3	104.2	104.6	106.1	108.2	111.5	115.8	123.1	135.4	153.2
70°	92.7	91.5	91.3	91.8	93.1	94.6	97.1	101.2	108.0	117.9	130.8
72.5°	80.4	79.6	79.6	80.6	81.2	82.2	83.9	87.7	93.1	100.6	112.6
75°	62.8	62.8	62.8	63.1	63.7	64.6	65.9	67.9	72.0	77.3	85.4
77.5°	47.0	47.0	46.8	46.8	47.7	48.1	48.4	50.2	52.6	56.1	62.0
80°	36.9	35.8	36.2	36.9	37.3	37.5	38.2	38.6	40.6	42.6	46.8
82.5°	27.4	26.5	26.6	27.6	27.7	27.9	28.6	29.1	29.9	31.7	33.9
85°	14.5	14.5	14.7	14.7	14.9	14.7	15.4	15.6	15.6	16.7	18.0
87.5°	10.9	10.5	10.6	10.7	10.4	10.5	10.5	10.5	10.5	10.5	10.1
90°	28.2	27.8	27.4	27.0	26.6	25.9	25.1	24.2	23.4	22.6	19.9
92.5°	38.0	38.3	38.5	38.7	39.0	38.8	38.2	37.5	36.8	36.1	34.6
95°	73.4	73.4	73.4	73.4	73.4	73.0	72.1	71.3	70.5	69.7	68.0
97.5°	112.9	113.0	113.1	113.2	113.2	112.8	111.9	110.8	109.9	109.0	107.7
100°	143.0	142.6	142.1	141.8	141.4	140.8	140.2	139.6	138.9	138.3	137.2
102.5°	173.9	174.0	174.0	174.1	174.2	173.9	173.3	172.7	172.0	171.4	170.0
105°	223.9	223.5	223.1	222.6	222.3	222.1	222.1	222.1	222.1	222.1	220.2
107.5°	276.1	276.3	276.5	276.8	277.0	276.8	276.2	275.5	274.8	274.2	273.4
110°	311.4	311.9	312.3	312.6	313.1	312.9	312.1	311.2	310.4	309.5	309.2



TEST NUMBER: P331893-830

CATALOG NUMBER: S123DIP-S340D1025U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	349.0	349.1	349.2	349.3	349.4	348.9	347.9	346.9	345.9	344.9	344.9
115°	400.8	401.1	401.2	401.4	401.6	401.6	401.4	401.2	401.1	400.8	401.2
117.5°	453.3	453.9	454.5	455.1	455.6	456.0	456.0	456.0	456.1	456.1	456.7
120°	490.2	490.6	491.1	491.4	491.8	492.2	492.4	492.6	492.8	493.0	494.1
122.5°	525.6	526.1	526.7	527.4	527.9	528.5	529.0	529.5	530.1	530.7	531.2
125°	578.6	579.5	580.3	581.2	581.9	582.8	583.6	584.5	585.3	586.2	586.5
127.5°	631.5	632.4	633.4	634.4	635.4	636.4	637.6	638.8	639.9	641.1	641.6
130°	666.1	667.6	669.0	670.5	671.9	673.2	673.9	674.8	675.6	676.5	677.1
132.5°	702.3	703.4	704.6	705.7	706.8	707.8	708.9	709.8	710.9	711.8	712.3
135°	758.4	758.7	759.1	759.6	760.0	760.6	761.5	762.3	763.2	763.9	764.2
137.5°	807.9	808.6	809.4	810.2	811.0	811.8	812.8	813.6	814.5	815.3	814.8
140°	840.2	841.7	843.1	844.6	846.0	846.9	847.1	847.3	847.5	847.7	847.5
142.5°	873.3	874.4	875.5	876.7	877.8	878.4	878.7	878.9	879.1	879.3	878.9
145°	921.1	921.9	922.7	923.6	924.4	924.9	925.2	925.4	925.6	925.8	925.2
147.5°	963.7	964.9	966.1	967.4	968.7	969.3	969.3	969.3	969.3	969.3	968.7
150°	990.7	991.9	993.3	994.5	995.7	996.4	996.4	996.4	996.4	996.4	996.0
152.5°	1017.1	1018.1	1019.3	1020.3	1021.4	1021.8	1021.4	1021.2	1020.8	1020.5	1020.2
155°	1052.8	1054.2	1055.7	1057.2	1058.7	1058.9	1058.2	1057.3	1056.5	1055.6	1055.5
157.5°	1085.3	1086.6	1087.7	1088.9	1090.1	1090.2	1089.3	1088.4	1087.6	1086.7	1086.6
160°	1106.5	1107.3	1108.1	1109.0	1109.7	1109.7	1108.6	1107.6	1106.5	1105.5	1105.5
162.5°	1122.3	1123.6	1124.9	1126.2	1127.6	1127.8	1126.7	1125.7	1124.6	1123.6	1123.4
165°	1145.0	1146.5	1147.9	1149.4	1150.8	1150.9	1149.7	1148.5	1147.2	1145.9	1145.9
167.5°	1164.4	1165.7	1167.0	1168.3	1169.6	1169.6	1168.3	1167.0	1165.7	1164.4	1164.2
170°	1174.2	1175.6	1177.1	1178.6	1180.1	1180.1	1178.6	1177.1	1175.6	1174.2	1174.2
172.5°	1181.7	1183.2	1184.7	1186.1	1187.6	1187.6	1186.4	1185.1	1183.7	1182.4	1182.4
175°	1190.1	1191.7	1193.1	1194.6	1196.0	1196.2	1194.9	1193.6	1192.4	1191.1	1191.1
177.5°	1194.7	1195.9	1197.0	1198.3	1199.4	1199.5	1198.4	1197.5	1196.5	1195.4	1195.4
180°	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7



TEST NUMBER: P331893-830

CATALOG NUMBER: S123DIP-S340D1025U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2
2.5°	467.2	465.9	464.5	462.0	459.9	456.9	456.0	455.0	451.8	449.0	446.9
5°	495.8	490.5	482.9	475.8	470.1	462.4	458.1	453.5	446.9	440.9	436.1
7.5°	525.7	515.3	503.3	490.5	478.4	466.8	457.5	449.1	439.9	431.2	424.3
10°	549.4	534.4	517.7	499.7	484.4	469.5	456.9	446.0	434.1	423.8	415.2
12.5°	576.5	554.3	531.3	509.4	491.3	470.5	455.3	441.4	427.9	415.6	406.0
15°	608.4	580.3	553.1	523.0	495.4	469.5	451.5	433.9	418.3	405.6	393.2
17.5°	637.6	605.8	569.9	533.3	499.9	469.2	444.0	424.1	404.6	389.1	376.8
20°	654.1	617.9	577.3	539.3	502.4	468.2	440.5	416.8	395.7	379.2	365.4
22.5°	668.4	625.9	583.9	543.3	502.2	465.3	433.9	409.5	386.7	370.6	355.9
25°	683.2	632.4	590.2	542.6	496.7	458.5	423.4	395.7	372.9	353.9	338.8
27.5°	695.8	632.0	581.9	530.7	488.0	449.7	412.2	382.5	358.3	337.7	322.3
30°	704.2	632.8	573.3	522.6	479.6	440.1	403.6	373.7	348.3	327.4	312.9
32.5°	709.5	632.3	565.4	511.3	466.2	431.2	394.3	363.4	337.1	316.7	302.7
35°	712.6	628.4	551.8	488.1	444.7	410.6	379.7	347.6	320.2	301.0	285.2
37.5°	706.3	620.3	536.0	465.7	418.1	384.7	358.5	331.3	305.0	284.0	270.3
40°	696.7	615.0	523.7	449.9	399.8	367.6	345.4	318.6	292.7	272.7	260.0
42.5°	678.3	604.4	510.2	432.3	380.9	348.6	328.2	305.8	281.3	262.5	249.8
45°	633.3	581.0	489.8	406.0	352.9	319.5	301.5	285.2	263.1	244.9	233.8
47.5°	570.8	545.9	460.5	378.2	323.6	291.5	272.8	259.8	243.6	228.8	218.3
50°	527.4	517.1	440.7	359.2	304.2	272.7	254.7	242.9	231.2	216.5	206.9
52.5°	477.4	483.7	417.5	339.6	284.3	253.4	236.5	227.1	216.5	204.3	196.0
55°	406.9	429.9	377.5	306.5	254.7	225.3	209.2	201.0	194.7	185.8	178.5
57.5°	340.9	370.2	334.1	272.5	225.6	200.3	184.9	175.9	171.9	167.2	161.5
60°	301.7	330.6	303.2	249.7	206.2	182.0	168.4	160.7	156.7	153.4	148.6
62.5°	266.7	296.1	273.1	226.5	187.0	164.7	152.8	145.2	142.2	140.5	136.4
65°	218.7	243.9	228.6	190.4	159.7	139.9	129.1	123.9	121.0	120.4	117.7
67.5°	178.0	197.2	186.1	157.9	133.7	116.7	107.5	103.0	100.9	100.6	98.6
70°	151.3	169.3	160.7	135.3	114.4	101.0	93.1	89.2	87.8	87.7	86.5
72.5°	130.5	143.1	136.3	115.1	99.0	86.8	81.0	76.8	75.4	75.7	74.9
75°	96.6	106.0	102.1	87.4	74.5	66.5	61.7	59.1	57.8	58.4	57.5
77.5°	69.6	75.5	71.9	61.7	53.7	48.1	44.5	42.9	41.7	41.7	41.3
80°	52.5	56.0	54.0	47.9	41.3	36.5	33.6	32.5	31.9	31.6	31.4
82.5°	37.4	40.3	38.0	33.8	29.3	26.4	24.8	23.4	22.9	23.0	22.8
85°	18.9	20.0	19.1	16.5	14.7	13.4	12.5	11.9	11.4	11.6	11.2
87.5°	9.9	9.5	8.5	7.4	6.5	5.6	5.2	4.4	4.4	4.9	5.1
90°	17.2	14.4	11.7	9.3	7.3	5.1	3.0	0.9	3.0	5.1	7.3
92.5°	33.0	31.5	30.0	28.5	27.1	25.6	24.2	22.8	24.2	25.6	27.1
95°	66.3	64.6	63.0	61.4	59.9	58.4	56.9	55.5	56.9	58.4	59.9
97.5°	106.5	105.3	104.1	102.9	101.9	100.8	99.7	98.6	99.7	100.8	101.9
100°	136.2	135.2	134.1	133.0	131.7	130.4	129.2	128.0	129.2	130.4	131.7
102.5°	168.6	167.3	165.9	164.9	164.1	163.3	162.6	161.8	162.6	163.3	164.1
105°	218.3	216.4	214.5	213.4	212.9	212.5	212.1	211.7	212.1	212.5	212.9
107.5°	272.7	271.9	271.2	270.7	270.4	270.1	269.9	269.7	269.9	270.1	270.4
110°	308.7	308.3	307.8	307.5	307.0	306.6	306.2	305.8	306.2	306.6	307.0



TEST NUMBER: P331893-830

CATALOG NUMBER: S123DIP-S340D1025U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	344.8	344.7	344.6	344.4	344.1	343.9	343.7	343.4	343.7	343.9	344.1
115°	401.6	402.1	402.5	402.4	401.7	401.1	400.5	399.8	400.5	401.1	401.7
117.5°	457.2	457.8	458.3	458.4	458.0	457.5	457.1	456.7	457.1	457.5	458.0
120°	495.1	496.2	497.2	497.1	495.9	494.6	493.3	492.1	493.3	494.6	495.9
122.5°	531.7	532.3	532.8	532.6	531.7	530.7	529.9	529.0	529.9	530.7	531.7
125°	587.0	587.4	587.9	587.7	587.1	586.4	585.9	585.2	585.9	586.4	587.1
127.5°	642.1	642.4	642.9	642.5	641.1	639.8	638.5	637.2	638.5	639.8	641.1
130°	677.7	678.3	679.0	678.4	676.7	675.1	673.4	671.8	673.4	675.1	676.7
132.5°	712.8	713.2	713.7	713.1	711.4	709.7	708.0	706.4	708.0	709.7	711.4
135°	764.4	764.6	764.8	764.3	763.0	761.8	760.5	759.3	760.5	761.8	763.0
137.5°	814.3	813.7	813.1	812.4	811.3	810.3	809.3	808.2	809.3	810.3	811.3
140°	847.3	847.1	846.9	846.2	845.2	844.1	843.1	842.1	843.1	844.1	845.2
142.5°	878.5	878.2	877.8	877.1	876.1	875.1	873.9	872.9	873.9	875.1	876.1
145°	924.5	923.9	923.3	922.7	922.4	921.9	921.5	921.1	921.5	921.9	922.4
147.5°	968.1	967.5	967.0	966.3	965.5	964.8	964.0	963.3	964.0	964.8	965.5
150°	995.5	995.1	994.7	994.3	993.8	993.4	993.1	992.6	993.1	993.4	993.8
152.5°	1019.9	1019.7	1019.5	1019.0	1018.4	1017.9	1017.3	1016.7	1017.3	1017.9	1018.4
155°	1055.2	1055.0	1054.8	1054.7	1054.7	1054.7	1054.7	1054.7	1054.7	1054.7	1054.7
157.5°	1086.4	1086.2	1086.0	1086.1	1086.3	1086.6	1086.8	1087.0	1086.8	1086.6	1086.3
160°	1105.5	1105.5	1105.5	1105.7	1106.2	1106.5	1106.9	1107.4	1106.9	1106.5	1106.2
162.5°	1123.2	1123.0	1122.9	1123.1	1123.7	1124.3	1124.8	1125.5	1124.8	1124.3	1123.7
165°	1145.9	1145.9	1145.9	1146.3	1146.9	1147.5	1148.1	1148.8	1148.1	1147.5	1146.9
167.5°	1164.0	1163.9	1163.8	1164.0	1164.9	1165.7	1166.6	1167.4	1166.6	1165.7	1164.9
170°	1174.2	1174.2	1174.2	1174.6	1175.4	1176.3	1177.1	1178.0	1177.1	1176.3	1175.4
172.5°	1182.4	1182.4	1182.4	1182.9	1183.7	1184.6	1185.4	1186.2	1185.4	1184.6	1183.7
175°	1191.1	1191.1	1191.1	1191.6	1192.4	1193.2	1194.0	1194.9	1194.0	1193.2	1192.4
177.5°	1195.4	1195.4	1195.4	1195.8	1196.5	1197.1	1197.8	1198.4	1197.8	1197.1	1196.5
180°	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7



TEST NUMBER: P331893-830

CATALOG NUMBER: S123DIP-S340D1025U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2
2.5°	445.6	444.4	442.7	440.1	437.9	434.6	434.6	435.1	435.1	435.0	434.6
5°	432.2	428.9	424.9	420.3	415.5	410.6	409.7	407.9	406.7	405.8	404.7
7.5°	417.8	412.0	406.2	399.8	393.9	389.1	385.7	382.9	381.1	379.1	377.7
10°	408.2	401.0	394.2	387.4	379.8	373.9	370.2	367.6	365.6	363.8	363.0
12.5°	396.8	388.5	381.0	374.5	366.4	360.2	356.7	355.4	353.2	349.4	347.5
15°	380.1	372.4	363.4	353.5	349.6	342.1	337.9	335.9	334.6	331.8	330.9
17.5°	365.8	355.8	345.6	338.3	330.9	324.9	322.5	320.1	318.4	316.0	315.3
20°	354.4	345.4	336.2	328.3	320.6	314.0	312.0	310.3	308.5	307.5	306.5
22.5°	342.8	333.8	326.1	318.8	310.6	306.2	304.2	302.2	301.0	300.2	299.4
25°	326.5	318.6	310.0	303.5	296.9	294.0	292.7	291.6	290.7	289.6	289.4
27.5°	312.0	303.3	296.4	290.2	285.5	283.1	281.8	281.3	281.5	281.9	282.2
30°	301.0	293.1	287.5	282.2	277.8	275.6	275.3	275.3	276.3	276.4	276.9
32.5°	291.1	284.6	278.8	273.7	270.4	268.9	269.8	269.8	270.4	271.0	271.8
35°	276.4	270.7	266.4	261.9	259.1	259.8	260.2	260.6	261.7	263.1	263.9
37.5°	262.5	257.6	253.0	249.6	248.3	249.4	250.5	251.4	252.7	253.7	254.6
40°	252.5	248.7	244.4	241.3	241.8	242.4	243.3	244.4	245.5	246.2	247.0
42.5°	243.2	239.3	235.9	233.4	234.0	234.9	235.4	235.9	237.2	238.5	238.9
45°	229.0	225.9	222.9	221.3	221.8	222.3	222.6	223.3	224.4	225.3	225.6
47.5°	213.1	210.9	208.9	207.4	208.1	207.9	208.5	209.9	210.2	210.8	212.0
50°	202.9	201.0	198.5	198.0	198.0	198.0	198.3	200.0	200.0	201.0	201.8
52.5°	191.6	190.4	188.9	188.0	187.7	187.7	188.6	189.5	189.8	191.1	192.0
55°	175.0	173.7	172.4	171.7	171.3	171.7	173.4	173.9	175.0	175.7	176.3
57.5°	157.7	156.7	155.6	155.2	155.1	155.7	156.7	158.0	158.3	160.3	161.3
60°	146.3	144.7	143.8	143.8	143.4	145.3	145.0	147.1	147.6	148.9	150.4
62.5°	134.5	132.4	132.1	132.1	132.7	133.3	133.8	134.8	136.0	137.6	138.8
65°	115.5	114.4	115.9	115.7	115.3	116.6	116.6	117.7	119.0	120.6	123.0
67.5°	97.6	97.0	97.1	97.1	97.7	98.5	99.2	100.1	101.7	103.3	104.9
70°	85.4	86.1	85.0	85.9	86.5	86.7	87.2	88.5	90.2	91.3	93.1
72.5°	73.6	73.6	73.7	74.1	74.7	75.1	75.6	77.1	79.0	79.9	81.3
75°	56.6	56.5	57.1	57.1	58.2	58.6	59.1	59.8	61.5	62.8	63.9
77.5°	41.4	41.7	41.5	42.2	41.9	42.0	43.4	44.0	44.2	46.8	47.4
80°	31.2	31.6	31.9	32.0	32.2	31.9	33.4	34.0	34.0	35.5	36.7
82.5°	22.4	22.6	23.2	23.5	23.5	23.9	24.0	24.5	25.1	25.7	27.1
85°	11.2	11.9	12.1	11.9	12.1	11.6	12.3	12.5	12.7	12.7	12.7
87.5°	5.4	6.0	6.4	7.2	7.4	8.2	8.4	8.2	8.4	9.0	8.5
90°	9.3	11.7	14.4	17.2	19.9	22.6	23.4	24.2	25.1	25.9	26.6
92.5°	28.5	30.0	31.5	33.0	34.6	36.1	36.8	37.5	38.2	38.8	39.0
95°	61.4	63.0	64.6	66.3	68.0	69.7	70.5	71.3	72.1	73.0	73.4
97.5°	102.9	104.1	105.3	106.5	107.7	109.0	109.9	110.8	111.9	112.8	113.2
100°	133.0	134.1	135.2	136.2	137.2	138.3	138.9	139.6	140.2	140.8	141.4
102.5°	164.9	165.9	167.3	168.6	170.0	171.4	172.0	172.7	173.3	173.9	174.2
105°	213.4	214.5	216.4	218.3	220.2	222.1	222.1	222.1	222.1	222.1	222.3
107.5°	270.7	271.2	271.9	272.7	273.4	274.2	274.8	275.5	276.2	276.8	277.0
110°	307.5	307.8	308.3	308.7	309.2	309.5	310.4	311.2	312.1	312.9	313.1



TEST NUMBER: P331893-830

CATALOG NUMBER: S123DIP-S340D1025U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	344.4	344.6	344.7	344.8	344.9	344.9	345.9	346.9	347.9	348.9	349.4
115°	402.4	402.5	402.1	401.6	401.2	400.8	401.1	401.2	401.4	401.6	401.6
117.5°	458.4	458.3	457.8	457.2	456.7	456.1	456.1	456.0	456.0	456.0	455.6
120°	497.1	497.2	496.2	495.1	494.1	493.0	492.8	492.6	492.4	492.2	491.8
122.5°	532.6	532.8	532.3	531.7	531.2	530.7	530.1	529.5	529.0	528.5	527.9
125°	587.7	587.9	587.4	587.0	586.5	586.2	585.3	584.5	583.6	582.8	581.9
127.5°	642.5	642.9	642.4	642.1	641.6	641.1	639.9	638.8	637.6	636.4	635.4
130°	678.4	679.0	678.3	677.7	677.1	676.5	675.6	674.8	673.9	673.2	671.9
132.5°	713.1	713.7	713.2	712.8	712.3	711.8	710.9	709.8	708.9	707.8	706.8
135°	764.3	764.8	764.6	764.4	764.2	763.9	763.2	762.3	761.5	760.6	760.0
137.5°	812.4	813.1	813.7	814.3	814.8	815.3	814.5	813.6	812.8	811.8	811.0
140°	846.2	846.9	847.1	847.3	847.5	847.7	847.5	847.3	847.1	846.9	846.0
142.5°	877.1	877.8	878.2	878.5	878.9	879.3	879.1	878.9	878.7	878.4	877.8
145°	922.7	923.3	923.9	924.5	925.2	925.8	925.6	925.4	925.2	924.9	924.4
147.5°	966.3	967.0	967.5	968.1	968.7	969.3	969.3	969.3	969.3	969.3	968.7
150°	994.3	994.7	995.1	995.5	996.0	996.4	996.4	996.4	996.4	996.4	995.7
152.5°	1019.0	1019.5	1019.7	1019.9	1020.2	1020.5	1020.8	1021.2	1021.4	1021.8	1021.4
155°	1054.7	1054.8	1055.0	1055.2	1055.5	1055.6	1056.5	1057.3	1058.2	1058.9	1058.7
157.5°	1086.1	1086.0	1086.2	1086.4	1086.6	1086.7	1087.6	1088.4	1089.3	1090.2	1090.1
160°	1105.7	1105.5	1105.5	1105.5	1105.5	1105.5	1106.5	1107.6	1108.6	1109.7	1109.7
162.5°	1123.1	1122.9	1123.0	1123.2	1123.4	1123.6	1124.6	1125.7	1126.7	1127.8	1127.6
165°	1146.3	1145.9	1145.9	1145.9	1145.9	1145.9	1147.2	1148.5	1149.7	1150.9	1150.8
167.5°	1164.0	1163.8	1163.9	1164.0	1164.2	1164.4	1165.7	1167.0	1168.3	1169.6	1169.6
170°	1174.6	1174.2	1174.2	1174.2	1174.2	1174.2	1175.6	1177.1	1178.6	1180.1	1180.1
172.5°	1182.9	1182.4	1182.4	1182.4	1182.4	1182.4	1183.7	1185.1	1186.4	1187.6	1187.6
175°	1191.6	1191.1	1191.1	1191.1	1191.1	1191.1	1192.4	1193.6	1194.9	1196.2	1196.0
177.5°	1195.8	1195.4	1195.4	1195.4	1195.4	1195.4	1196.5	1197.5	1198.4	1199.5	1199.4
180°	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7



TEST NUMBER: P331893-830

CATALOG NUMBER: S123DIP-S340D1025U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2
2.5°	433.4	433.2	434.4	433.6	434.4	433.2	433.4	434.6	435.0	435.1	435.1
5°	403.4	404.1	401.8	401.8	401.8	404.1	403.4	404.7	405.8	406.7	407.9
7.5°	376.6	375.7	375.8	374.6	375.8	375.7	376.6	377.7	379.1	381.1	382.9
10°	360.3	359.0	358.5	358.8	358.5	359.0	360.3	363.0	363.8	365.6	367.6
12.5°	346.8	346.6	343.7	343.7	343.7	346.6	346.8	347.5	349.4	353.2	355.4
15°	330.9	326.8	326.3	327.6	326.3	326.8	330.9	330.9	331.8	334.6	335.9
17.5°	315.0	312.7	312.9	312.3	312.9	312.7	315.0	315.3	316.0	318.4	320.1
20°	306.5	305.2	305.0	303.5	305.0	305.2	306.5	306.5	307.5	308.5	310.3
22.5°	298.8	298.4	298.5	296.8	298.5	298.4	298.8	299.4	300.2	301.0	302.2
25°	289.2	290.3	289.4	289.4	289.4	290.3	289.2	289.4	289.6	290.7	291.6
27.5°	282.7	282.7	282.2	282.2	282.2	282.7	282.7	282.2	281.9	281.5	281.3
30°	277.8	277.6	278.0	278.0	278.0	277.6	277.8	276.9	276.4	276.3	275.3
32.5°	272.9	273.1	273.2	273.4	273.2	273.1	272.9	271.8	271.0	270.4	269.8
35°	265.2	265.5	266.2	265.7	266.2	265.5	265.2	263.9	263.1	261.7	260.6
37.5°	255.0	256.0	255.8	256.1	255.8	256.0	255.0	254.6	253.7	252.7	251.4
40°	247.2	247.9	247.7	247.7	247.7	247.9	247.2	247.0	246.2	245.5	244.4
42.5°	239.3	239.8	239.2	238.9	239.2	239.8	239.3	238.9	238.5	237.2	235.9
45°	226.4	225.9	226.6	225.7	226.6	225.9	226.4	225.6	225.3	224.4	223.3
47.5°	211.9	212.4	212.5	213.2	212.5	212.4	211.9	212.0	210.8	210.2	209.9
50°	202.3	203.6	203.6	203.3	203.6	203.6	202.3	201.8	201.0	200.0	200.0
52.5°	192.7	193.3	194.3	194.2	194.3	193.3	192.7	192.0	191.1	189.8	189.5
55°	178.0	178.5	179.0	179.2	179.0	178.5	178.0	176.3	175.7	175.0	173.9
57.5°	162.9	162.7	163.7	164.1	163.7	162.7	162.9	161.3	160.3	158.3	158.0
60°	152.1	152.1	153.9	154.6	153.9	152.1	152.1	150.4	148.9	147.6	147.1
62.5°	140.7	141.5	143.2	142.3	143.2	141.5	140.7	138.8	137.6	136.0	134.8
65°	124.0	125.8	125.6	126.5	125.6	125.8	124.0	123.0	120.6	119.0	117.7
67.5°	106.6	107.7	109.3	109.4	109.3	107.7	106.6	104.9	103.3	101.7	100.1
70°	94.8	96.0	96.8	97.5	96.8	96.0	94.8	93.1	91.3	90.2	88.5
72.5°	83.4	84.0	86.1	85.2	86.1	84.0	83.4	81.3	79.9	79.0	77.1
75°	65.4	67.0	68.3	67.7	68.3	67.0	65.4	63.9	62.8	61.5	59.8
77.5°	48.4	50.0	50.5	50.0	50.5	50.0	48.4	47.4	46.8	44.2	44.0
80°	38.2	38.0	39.3	39.1	39.3	38.0	38.2	36.7	35.5	34.0	34.0
82.5°	28.0	27.8	28.4	28.6	28.4	27.8	28.0	27.1	25.7	25.1	24.5
85°	13.6	14.2	13.4	13.2	13.4	14.2	13.6	12.7	12.7	12.7	12.5
87.5°	8.6	8.7	8.6	8.5	8.6	8.7	8.6	8.5	9.0	8.4	8.2
90°	27.0	27.4	27.8	28.2	27.8	27.4	27.0	26.6	25.9	25.1	24.2
92.5°	38.7	38.5	38.3	38.0	38.3	38.5	38.7	39.0	38.8	38.2	37.5
95°	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.0	72.1	71.3
97.5°	113.2	113.1	113.0	112.9	113.0	113.1	113.2	113.2	112.8	111.9	110.8
100°	141.8	142.1	142.6	143.0	142.6	142.1	141.8	141.4	140.8	140.2	139.6
102.5°	174.1	174.0	174.0	173.9	174.0	174.0	174.1	174.2	173.9	173.3	172.7
105°	222.6	223.1	223.5	223.9	223.5	223.1	222.6	222.3	222.1	222.1	222.1
107.5°	276.8	276.5	276.3	276.1	276.3	276.5	276.8	277.0	276.8	276.2	275.5
110°	312.6	312.3	311.9	311.4	311.9	312.3	312.6	313.1	312.9	312.1	311.2



TEST NUMBER: P331893-830

CATALOG NUMBER: S123DIP-S340D1025U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	349.3	349.2	349.1	349.0	349.1	349.2	349.3	349.4	348.9	347.9	346.9
115°	401.4	401.2	401.1	400.8	401.1	401.2	401.4	401.6	401.6	401.4	401.2
117.5°	455.1	454.5	453.9	453.3	453.9	454.5	455.1	455.6	456.0	456.0	456.0
120°	491.4	491.1	490.6	490.2	490.6	491.1	491.4	491.8	492.2	492.4	492.6
122.5°	527.4	526.7	526.1	525.6	526.1	526.7	527.4	527.9	528.5	529.0	529.5
125°	581.2	580.3	579.5	578.6	579.5	580.3	581.2	581.9	582.8	583.6	584.5
127.5°	634.4	633.4	632.4	631.5	632.4	633.4	634.4	635.4	636.4	637.6	638.8
130°	670.5	669.0	667.6	666.1	667.6	669.0	670.5	671.9	673.2	673.9	674.8
132.5°	705.7	704.6	703.4	702.3	703.4	704.6	705.7	706.8	707.8	708.9	709.8
135°	759.6	759.1	758.7	758.4	758.7	759.1	759.6	760.0	760.6	761.5	762.3
137.5°	810.2	809.4	808.6	807.9	808.6	809.4	810.2	811.0	811.8	812.8	813.6
140°	844.6	843.1	841.7	840.2	841.7	843.1	844.6	846.0	846.9	847.1	847.3
142.5°	876.7	875.5	874.4	873.3	874.4	875.5	876.7	877.8	878.4	878.7	878.9
145°	923.6	922.7	921.9	921.1	921.9	922.7	923.6	924.4	924.9	925.2	925.4
147.5°	967.4	966.1	964.9	963.7	964.9	966.1	967.4	968.7	969.3	969.3	969.3
150°	994.5	993.3	991.9	990.7	991.9	993.3	994.5	995.7	996.4	996.4	996.4
152.5°	1020.3	1019.3	1018.1	1017.1	1018.1	1019.3	1020.3	1021.4	1021.8	1021.4	1021.2
155°	1057.2	1055.7	1054.2	1052.8	1054.2	1055.7	1057.2	1058.7	1058.9	1058.2	1057.3
157.5°	1088.9	1087.7	1086.6	1085.3	1086.6	1087.7	1088.9	1090.1	1090.2	1089.3	1088.4
160°	1109.0	1108.1	1107.3	1106.5	1107.3	1108.1	1109.0	1109.7	1109.7	1108.6	1107.6
162.5°	1126.2	1124.9	1123.6	1122.3	1123.6	1124.9	1126.2	1127.6	1127.8	1126.7	1125.7
165°	1149.4	1147.9	1146.5	1145.0	1146.5	1147.9	1149.4	1150.8	1150.9	1149.7	1148.5
167.5°	1168.3	1167.0	1165.7	1164.4	1165.7	1167.0	1168.3	1169.6	1169.6	1168.3	1167.0
170°	1178.6	1177.1	1175.6	1174.2	1175.6	1177.1	1178.6	1180.1	1180.1	1178.6	1177.1
172.5°	1186.1	1184.7	1183.2	1181.7	1183.2	1184.7	1186.1	1187.6	1187.6	1186.4	1185.1
175°	1194.6	1193.1	1191.7	1190.1	1191.7	1193.1	1194.6	1196.0	1196.2	1194.9	1193.6
177.5°	1198.3	1197.0	1195.9	1194.7	1195.9	1197.0	1198.3	1199.4	1199.5	1198.4	1197.5
180°	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7



TEST NUMBER: P331893-830

CATALOG NUMBER: S123DIP-S340D1025U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2
2.5°	434.6	434.6	437.9	440.1	442.7	444.4	445.6	446.9	449.0	451.8	455.0
5°	409.7	410.6	415.5	420.3	424.9	428.9	432.2	436.1	440.9	446.9	453.5
7.5°	385.7	389.1	393.9	399.8	406.2	412.0	417.8	424.3	431.2	439.9	449.1
10°	370.2	373.9	379.8	387.4	394.2	401.0	408.2	415.2	423.8	434.1	446.0
12.5°	356.7	360.2	366.4	374.5	381.0	388.5	396.8	406.0	415.6	427.9	441.4
15°	337.9	342.1	349.6	353.5	363.4	372.4	380.1	393.2	405.6	418.3	433.9
17.5°	322.5	324.9	330.9	338.3	345.6	355.8	365.8	376.8	389.1	404.6	424.1
20°	312.0	314.0	320.6	328.3	336.2	345.4	354.4	365.4	379.2	395.7	416.8
22.5°	304.2	306.2	310.6	318.8	326.1	333.8	342.8	355.9	370.6	386.7	409.5
25°	292.7	294.0	296.9	303.5	310.0	318.6	326.5	338.8	353.9	372.9	395.7
27.5°	281.8	283.1	285.5	290.2	296.4	303.3	312.0	322.3	337.7	358.3	382.5
30°	275.3	275.6	277.8	282.2	287.5	293.1	301.0	312.9	327.4	348.3	373.7
32.5°	269.8	268.9	270.4	273.7	278.8	284.6	291.1	302.7	316.7	337.1	363.4
35°	260.2	259.8	259.1	261.9	266.4	270.7	276.4	285.2	301.0	320.2	347.6
37.5°	250.5	249.4	248.3	249.6	253.0	257.6	262.5	270.3	284.0	305.0	331.3
40°	243.3	242.4	241.8	241.3	244.4	248.7	252.5	260.0	272.7	292.7	318.6
42.5°	235.4	234.9	234.0	233.4	235.9	239.3	243.2	249.8	262.5	281.3	305.8
45°	222.6	222.3	221.8	221.3	222.9	225.9	229.0	233.8	244.9	263.1	285.2
47.5°	208.5	207.9	208.1	207.4	208.9	210.9	213.1	218.3	228.8	243.6	259.8
50°	198.3	198.0	198.0	198.0	198.5	201.0	202.9	206.9	216.5	231.2	242.9
52.5°	188.6	187.7	187.7	188.0	188.9	190.4	191.6	196.0	204.3	216.5	227.1
55°	173.4	171.7	171.3	171.7	172.4	173.7	175.0	178.5	185.8	194.7	201.0
57.5°	156.7	155.7	155.1	155.2	155.6	156.7	157.7	161.5	167.2	171.9	175.9
60°	145.0	145.3	143.4	143.8	143.8	144.7	146.3	148.6	153.4	156.7	160.7
62.5°	133.8	133.3	132.7	132.1	132.1	132.4	134.5	136.4	140.5	142.2	145.2
65°	116.6	116.6	115.3	115.7	115.9	114.4	115.5	117.7	120.4	121.0	123.9
67.5°	99.2	98.5	97.7	97.1	97.1	97.0	97.6	98.6	100.6	100.9	103.0
70°	87.2	86.7	86.5	85.9	85.0	86.1	85.4	86.5	87.7	87.8	89.2
72.5°	75.6	75.1	74.7	74.1	73.7	73.6	73.6	74.9	75.7	75.4	76.8
75°	59.1	58.6	58.2	57.1	57.1	56.5	56.6	57.5	58.4	57.8	59.1
77.5°	43.4	42.0	41.9	42.2	41.5	41.7	41.4	41.3	41.7	41.7	42.9
80°	33.4	31.9	32.2	32.0	31.9	31.6	31.2	31.4	31.6	31.9	32.5
82.5°	24.0	23.9	23.5	23.5	23.2	22.6	22.4	22.8	23.0	22.9	23.4
85°	12.3	11.6	12.1	11.9	12.1	11.9	11.2	11.2	11.6	11.4	11.9
87.5°	8.4	8.2	7.4	7.2	6.4	6.0	5.4	5.1	4.9	4.4	4.4
90°	23.4	22.6	19.9	17.2	14.4	11.7	9.3	7.3	5.1	3.0	0.9
92.5°	36.8	36.1	34.6	33.0	31.5	30.0	28.5	27.1	25.6	24.2	22.8
95°	70.5	69.7	68.0	66.3	64.6	63.0	61.4	59.9	58.4	56.9	55.5
97.5°	109.9	109.0	107.7	106.5	105.3	104.1	102.9	101.9	100.8	99.7	98.6
100°	138.9	138.3	137.2	136.2	135.2	134.1	133.0	131.7	130.4	129.2	128.0
102.5°	172.0	171.4	170.0	168.6	167.3	165.9	164.9	164.1	163.3	162.6	161.8
105°	222.1	222.1	220.2	218.3	216.4	214.5	213.4	212.9	212.5	212.1	211.7
107.5°	274.8	274.2	273.4	272.7	271.9	271.2	270.7	270.4	270.1	269.9	269.7
110°	310.4	309.5	309.2	308.7	308.3	307.8	307.5	307.0	306.6	306.2	305.8



TEST NUMBER: P331893-830

CATALOG NUMBER: S123DIP-S340D1025U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	345.9	344.9	344.9	344.8	344.7	344.6	344.4	344.1	343.9	343.7	343.4
115°	401.1	400.8	401.2	401.6	402.1	402.5	402.4	401.7	401.1	400.5	399.8
117.5°	456.1	456.1	456.7	457.2	457.8	458.3	458.4	458.0	457.5	457.1	456.7
120°	492.8	493.0	494.1	495.1	496.2	497.2	497.1	495.9	494.6	493.3	492.1
122.5°	530.1	530.7	531.2	531.7	532.3	532.8	532.6	531.7	530.7	529.9	529.0
125°	585.3	586.2	586.5	587.0	587.4	587.9	587.7	587.1	586.4	585.9	585.2
127.5°	639.9	641.1	641.6	642.1	642.4	642.9	642.5	641.1	639.8	638.5	637.2
130°	675.6	676.5	677.1	677.7	678.3	679.0	678.4	676.7	675.1	673.4	671.8
132.5°	710.9	711.8	712.3	712.8	713.2	713.7	713.1	711.4	709.7	708.0	706.4
135°	763.2	763.9	764.2	764.4	764.6	764.8	764.3	763.0	761.8	760.5	759.3
137.5°	814.5	815.3	814.8	814.3	813.7	813.1	812.4	811.3	810.3	809.3	808.2
140°	847.5	847.7	847.5	847.3	847.1	846.9	846.2	845.2	844.1	843.1	842.1
142.5°	879.1	879.3	878.9	878.5	878.2	877.8	877.1	876.1	875.1	873.9	872.9
145°	925.6	925.8	925.2	924.5	923.9	923.3	922.7	922.4	921.9	921.5	921.1
147.5°	969.3	969.3	968.7	968.1	967.5	967.0	966.3	965.5	964.8	964.0	963.3
150°	996.4	996.4	996.0	995.5	995.1	994.7	994.3	993.8	993.4	993.1	992.6
152.5°	1020.8	1020.5	1020.2	1019.9	1019.7	1019.5	1019.0	1018.4	1017.9	1017.3	1016.7
155°	1056.5	1055.6	1055.5	1055.2	1055.0	1054.8	1054.7	1054.7	1054.7	1054.7	1054.7
157.5°	1087.6	1086.7	1086.6	1086.4	1086.2	1086.0	1086.1	1086.3	1086.6	1086.8	1087.0
160°	1106.5	1105.5	1105.5	1105.5	1105.5	1105.5	1105.7	1106.2	1106.5	1106.9	1107.4
162.5°	1124.6	1123.6	1123.4	1123.2	1123.0	1122.9	1123.1	1123.7	1124.3	1124.8	1125.5
165°	1147.2	1145.9	1145.9	1145.9	1145.9	1145.9	1146.3	1146.9	1147.5	1148.1	1148.8
167.5°	1165.7	1164.4	1164.2	1164.0	1163.9	1163.8	1164.0	1164.9	1165.7	1166.6	1167.4
170°	1175.6	1174.2	1174.2	1174.2	1174.2	1174.2	1174.6	1175.4	1176.3	1177.1	1178.0
172.5°	1183.7	1182.4	1182.4	1182.4	1182.4	1182.4	1182.9	1183.7	1184.6	1185.4	1186.2
175°	1192.4	1191.1	1191.1	1191.1	1191.1	1191.1	1191.6	1192.4	1193.2	1194.0	1194.9
177.5°	1196.5	1195.4	1195.4	1195.4	1195.4	1195.4	1195.8	1196.5	1197.1	1197.8	1198.4
180°	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7



TEST NUMBER: P331893-830

CATALOG NUMBER: S123DIP-S340D1025U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2
2.5°	456.0	456.9	459.9	462.0	464.5	465.9	467.2	468.3	469.8	470.0	475.1
5°	458.1	462.4	470.1	475.8	482.9	490.5	495.8	498.2	504.6	509.8	520.4
7.5°	457.5	466.8	478.4	490.5	503.3	515.3	525.7	538.0	546.7	559.9	572.8
10°	456.9	469.5	484.4	499.7	517.7	534.4	549.4	566.1	579.9	598.1	613.7
12.5°	455.3	470.5	491.3	509.4	531.3	554.3	576.5	597.9	610.1	640.5	654.8
15°	451.5	469.5	495.4	523.0	553.1	580.3	608.4	630.8	667.0	693.6	710.6
17.5°	444.0	469.2	499.9	533.3	569.9	605.8	637.6	671.6	710.0	742.2	776.5
20°	440.5	468.2	502.4	539.3	577.3	617.9	654.1	694.9	736.9	768.5	812.5
22.5°	433.9	465.3	502.2	543.3	583.9	625.9	668.4	709.5	758.0	801.5	843.4
25°	423.4	458.5	496.7	542.6	590.2	632.4	683.2	737.8	788.2	844.3	886.0
27.5°	412.2	449.7	488.0	530.7	581.9	632.0	695.8	757.5	819.3	867.6	898.5
30°	403.6	440.1	479.6	522.6	573.3	632.8	704.2	771.6	831.8	873.3	890.6
32.5°	394.3	431.2	466.2	511.3	565.4	632.3	709.5	779.9	832.5	860.1	856.7
35°	379.7	410.6	444.7	488.1	551.8	628.4	712.6	780.6	812.8	806.9	762.1
37.5°	358.5	384.7	418.1	465.7	536.0	620.3	706.3	757.4	755.4	707.1	642.2
40°	345.4	367.6	399.8	449.9	523.7	615.0	696.7	729.9	701.8	634.3	556.7
42.5°	328.2	348.6	380.9	432.3	510.2	604.4	678.3	687.9	632.9	555.3	484.1
45°	301.5	319.5	352.9	406.0	489.8	581.0	633.3	609.7	535.7	455.6	401.4
47.5°	272.8	291.5	323.6	378.2	460.5	545.9	570.8	520.8	444.9	379.8	330.1
50°	254.7	272.7	304.2	359.2	440.7	517.1	527.4	462.9	393.0	335.9	295.1
52.5°	236.5	253.4	284.3	339.6	417.5	483.7	477.4	411.6	347.4	298.7	266.6
55°	209.2	225.3	254.7	306.5	377.5	429.9	406.9	344.1	291.0	253.2	228.8
57.5°	184.9	200.3	225.6	272.5	334.1	370.2	340.9	287.9	245.7	216.6	198.5
60°	168.4	182.0	206.2	249.7	303.2	330.6	301.7	255.0	219.3	196.0	179.8
62.5°	152.8	164.7	187.0	226.5	273.1	296.1	266.7	227.2	196.9	176.3	162.4
65°	129.1	139.9	159.7	190.4	228.6	243.9	218.7	186.6	163.2	147.8	138.6
67.5°	107.5	116.7	133.7	157.9	186.1	197.2	178.0	153.2	135.4	123.1	115.8
70°	93.1	101.0	114.4	135.3	160.7	169.3	151.3	130.8	117.9	108.0	101.2
72.5°	81.0	86.8	99.0	115.1	136.3	143.1	130.5	112.6	100.6	93.1	87.7
75°	61.7	66.5	74.5	87.4	102.1	106.0	96.6	85.4	77.3	72.0	67.9
77.5°	44.5	48.1	53.7	61.7	71.9	75.5	69.6	62.0	56.1	52.6	50.2
80°	33.6	36.5	41.3	47.9	54.0	56.0	52.5	46.8	42.6	40.6	38.6
82.5°	24.8	26.4	29.3	33.8	38.0	40.3	37.4	33.9	31.7	29.9	29.1
85°	12.5	13.4	14.7	16.5	19.1	20.0	18.9	18.0	16.7	15.6	15.6
87.5°	5.2	5.6	6.5	7.4	8.5	9.5	9.9	10.1	10.5	10.5	10.5
90°	3.0	5.1	7.3	9.3	11.7	14.4	17.2	19.9	22.6	23.4	24.2
92.5°	24.2	25.6	27.1	28.5	30.0	31.5	33.0	34.6	36.1	36.8	37.5
95°	56.9	58.4	59.9	61.4	63.0	64.6	66.3	68.0	69.7	70.5	71.3
97.5°	99.7	100.8	101.9	102.9	104.1	105.3	106.5	107.7	109.0	109.9	110.8
100°	129.2	130.4	131.7	133.0	134.1	135.2	136.2	137.2	138.3	138.9	139.6
102.5°	162.6	163.3	164.1	164.9	165.9	167.3	168.6	170.0	171.4	172.0	172.7
105°	212.1	212.5	212.9	213.4	214.5	216.4	218.3	220.2	222.1	222.1	222.1
107.5°	269.9	270.1	270.4	270.7	271.2	271.9	272.7	273.4	274.2	274.8	275.5
110°	306.2	306.6	307.0	307.5	307.8	308.3	308.7	309.2	309.5	310.4	311.2



TEST NUMBER: P331893-830

CATALOG NUMBER: S123DIP-S340D1025U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	343.7	343.9	344.1	344.4	344.6	344.7	344.8	344.9	344.9	345.9	346.9
115°	400.5	401.1	401.7	402.4	402.5	402.1	401.6	401.2	400.8	401.1	401.2
117.5°	457.1	457.5	458.0	458.4	458.3	457.8	457.2	456.7	456.1	456.1	456.0
120°	493.3	494.6	495.9	497.1	497.2	496.2	495.1	494.1	493.0	492.8	492.6
122.5°	529.9	530.7	531.7	532.6	532.8	532.3	531.7	531.2	530.7	530.1	529.5
125°	585.9	586.4	587.1	587.7	587.9	587.4	587.0	586.5	586.2	585.3	584.5
127.5°	638.5	639.8	641.1	642.5	642.9	642.4	642.1	641.6	641.1	639.9	638.8
130°	673.4	675.1	676.7	678.4	679.0	678.3	677.7	677.1	676.5	675.6	674.8
132.5°	708.0	709.7	711.4	713.1	713.7	713.2	712.8	712.3	711.8	710.9	709.8
135°	760.5	761.8	763.0	764.3	764.8	764.6	764.4	764.2	763.9	763.2	762.3
137.5°	809.3	810.3	811.3	812.4	813.1	813.7	814.3	814.8	815.3	814.5	813.6
140°	843.1	844.1	845.2	846.2	846.9	847.1	847.3	847.5	847.7	847.5	847.3
142.5°	873.9	875.1	876.1	877.1	877.8	878.2	878.5	878.9	879.3	879.1	878.9
145°	921.5	921.9	922.4	922.7	923.3	923.9	924.5	925.2	925.8	925.6	925.4
147.5°	964.0	964.8	965.5	966.3	967.0	967.5	968.1	968.7	969.3	969.3	969.3
150°	993.1	993.4	993.8	994.3	994.7	995.1	995.5	996.0	996.4	996.4	996.4
152.5°	1017.3	1017.9	1018.4	1019.0	1019.5	1019.7	1019.9	1020.2	1020.5	1020.8	1021.2
155°	1054.7	1054.7	1054.7	1054.7	1054.8	1055.0	1055.2	1055.5	1055.6	1056.5	1057.3
157.5°	1086.8	1086.6	1086.3	1086.1	1086.0	1086.2	1086.4	1086.6	1086.7	1087.6	1088.4
160°	1106.9	1106.5	1106.2	1105.7	1105.5	1105.5	1105.5	1105.5	1105.5	1106.5	1107.6
162.5°	1124.8	1124.3	1123.7	1123.1	1122.9	1123.0	1123.2	1123.4	1123.6	1124.6	1125.7
165°	1148.1	1147.5	1146.9	1146.3	1145.9	1145.9	1145.9	1145.9	1145.9	1147.2	1148.5
167.5°	1166.6	1165.7	1164.9	1164.0	1163.8	1163.9	1164.0	1164.2	1164.4	1165.7	1167.0
170°	1177.1	1176.3	1175.4	1174.6	1174.2	1174.2	1174.2	1174.2	1174.2	1175.6	1177.1
172.5°	1185.4	1184.6	1183.7	1182.9	1182.4	1182.4	1182.4	1182.4	1182.4	1183.7	1185.1
175°	1194.0	1193.2	1192.4	1191.6	1191.1	1191.1	1191.1	1191.1	1191.1	1192.4	1193.6
177.5°	1197.8	1197.1	1196.5	1195.8	1195.4	1195.4	1195.4	1195.4	1195.4	1196.5	1197.5
180°	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7



TEST NUMBER: P331893-830

CATALOG NUMBER: S123DIP-S340D1025U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	453.2	453.2	453.2	453.2	453.2	453.2	453.2
2.5°	476.9	477.1	479.0	480.4	479.8	480.6	481.0
5°	521.0	529.0	533.1	536.2	536.4	536.7	538.4
7.5°	583.6	592.1	598.3	607.8	610.5	613.7	612.8
10°	629.3	641.9	652.6	658.3	664.5	673.4	666.2
12.5°	672.0	694.2	710.6	719.4	725.2	727.0	723.5
15°	742.4	771.4	786.9	786.6	806.3	814.8	801.4
17.5°	806.9	833.7	855.2	866.1	882.6	886.2	884.6
20°	846.5	875.7	892.4	911.3	919.8	927.5	928.8
22.5°	880.5	906.8	924.7	940.4	947.5	951.2	953.4
25°	915.7	936.3	947.1	952.5	954.5	954.0	951.2
27.5°	913.2	914.8	903.0	891.4	880.9	869.2	865.2
30°	889.5	871.1	838.1	819.4	792.0	770.2	779.1
32.5°	827.2	790.4	753.5	712.7	678.9	669.3	659.6
35°	706.0	641.4	603.6	559.7	542.2	524.6	512.5
37.5°	571.1	521.2	476.4	447.7	430.1	419.0	413.0
40°	493.8	448.8	411.9	388.6	375.2	362.8	361.0
42.5°	432.2	390.3	362.6	344.0	331.2	325.8	322.0
45°	353.9	324.8	306.1	292.9	284.4	281.1	276.6
47.5°	299.6	279.0	264.9	256.0	249.5	247.0	246.8
50°	269.2	252.0	241.8	234.7	229.7	228.8	225.3
52.5°	246.4	231.5	223.5	217.4	213.7	211.2	210.2
55°	213.9	204.0	196.7	193.2	190.4	187.9	187.9
57.5°	187.1	178.9	174.1	171.1	170.2	168.5	167.4
60°	170.6	163.6	159.9	157.2	155.4	155.7	153.7
62.5°	154.5	149.9	146.3	143.7	141.6	141.7	141.8
65°	131.5	128.0	125.4	124.5	123.2	121.7	122.1
67.5°	111.5	108.2	106.1	104.6	104.2	103.3	104.6
70°	97.1	94.6	93.1	91.8	91.3	91.5	92.7
72.5°	83.9	82.2	81.2	80.6	79.6	79.6	80.4
75°	65.9	64.6	63.7	63.1	62.8	62.8	62.8
77.5°	48.4	48.1	47.7	46.8	46.8	47.0	47.0
80°	38.2	37.5	37.3	36.9	36.2	35.8	36.9
82.5°	28.6	27.9	27.7	27.6	26.6	26.5	27.4
85°	15.4	14.7	14.9	14.7	14.7	14.5	14.5
87.5°	10.5	10.5	10.4	10.7	10.6	10.5	10.9
90°	25.1	25.9	26.6	27.0	27.4	27.8	28.2
92.5°	38.2	38.8	39.0	38.7	38.5	38.3	38.0
95°	72.1	73.0	73.4	73.4	73.4	73.4	73.4
97.5°	111.9	112.8	113.2	113.2	113.1	113.0	112.9
100°	140.2	140.8	141.4	141.8	142.1	142.6	143.0
102.5°	173.3	173.9	174.2	174.1	174.0	174.0	173.9
105°	222.1	222.1	222.3	222.6	223.1	223.5	223.9
107.5°	276.2	276.8	277.0	276.8	276.5	276.3	276.1
110°	312.1	312.9	313.1	312.6	312.3	311.9	311.4



TEST NUMBER: P331893-830

CATALOG NUMBER: S123DIP-S340D1025U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	347.9	348.9	349.4	349.3	349.2	349.1	349.0
115°	401.4	401.6	401.6	401.4	401.2	401.1	400.8
117.5°	456.0	456.0	455.6	455.1	454.5	453.9	453.3
120°	492.4	492.2	491.8	491.4	491.1	490.6	490.2
122.5°	529.0	528.5	527.9	527.4	526.7	526.1	525.6
125°	583.6	582.8	581.9	581.2	580.3	579.5	578.6
127.5°	637.6	636.4	635.4	634.4	633.4	632.4	631.5
130°	673.9	673.2	671.9	670.5	669.0	667.6	666.1
132.5°	708.9	707.8	706.8	705.7	704.6	703.4	702.3
135°	761.5	760.6	760.0	759.6	759.1	758.7	758.4
137.5°	812.8	811.8	811.0	810.2	809.4	808.6	807.9
140°	847.1	846.9	846.0	844.6	843.1	841.7	840.2
142.5°	878.7	878.4	877.8	876.7	875.5	874.4	873.3
145°	925.2	924.9	924.4	923.6	922.7	921.9	921.1
147.5°	969.3	969.3	968.7	967.4	966.1	964.9	963.7
150°	996.4	996.4	995.7	994.5	993.3	991.9	990.7
152.5°	1021.4	1021.8	1021.4	1020.3	1019.3	1018.1	1017.1
155°	1058.2	1058.9	1058.7	1057.2	1055.7	1054.2	1052.8
157.5°	1089.3	1090.2	1090.1	1088.9	1087.7	1086.6	1085.3
160°	1108.6	1109.7	1109.7	1109.0	1108.1	1107.3	1106.5
162.5°	1126.7	1127.8	1127.6	1126.2	1124.9	1123.6	1122.3
165°	1149.7	1150.9	1150.8	1149.4	1147.9	1146.5	1145.0
167.5°	1168.3	1169.6	1169.6	1168.3	1167.0	1165.7	1164.4
170°	1178.6	1180.1	1180.1	1178.6	1177.1	1175.6	1174.2
172.5°	1186.4	1187.6	1187.6	1186.1	1184.7	1183.2	1181.7
175°	1194.9	1196.2	1196.0	1194.6	1193.1	1191.7	1190.1
177.5°	1198.4	1199.5	1199.4	1198.3	1197.0	1195.9	1194.7
180°	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7

(END OF REPORT)