

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: P331902-830

Luminaire Tested: **S123DIP-S340D1195U830-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331902-830
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-S340D1195U830-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1195 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5234.5 lumens
Efficiency: N/A
Efficacy: 124.0 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

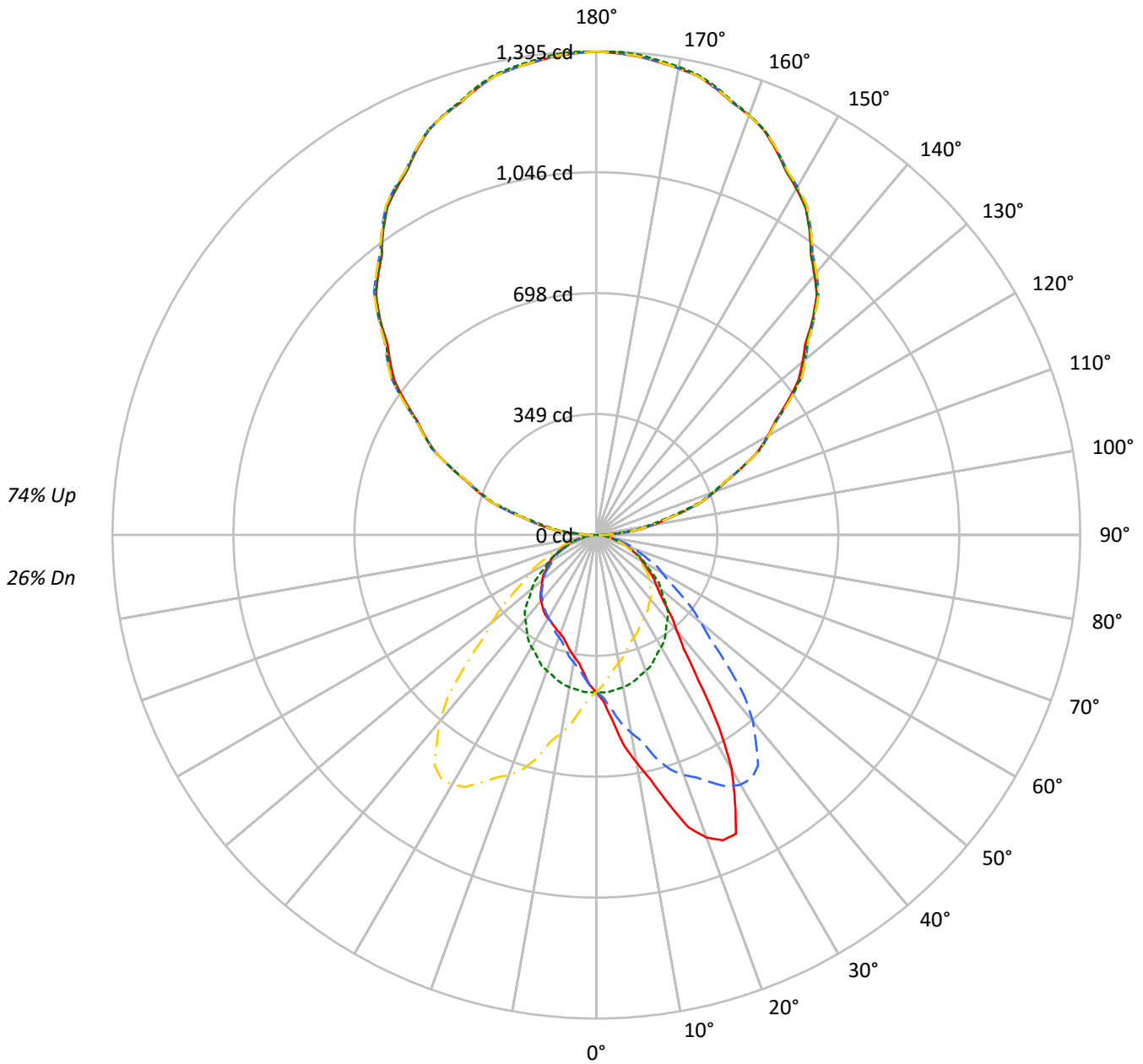
Input Watts (W): 42.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - - - 135°-315°



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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	101	101	101	101	91	91	91	91	70	70	70	51	51	51	34	34	34	26				
1	93	88	85	81	82	79	76	73	61	59	58	45	44	43	30	30	29	22				
2	84	77	72	67	75	69	64	60	54	51	48	40	38	36	27	26	25	19				
3	77	68	61	56	68	61	55	50	48	44	40	35	33	31	24	22	21	16				
4	70	60	53	47	63	54	48	43	42	38	34	32	29	26	21	20	18	14				
5	65	53	46	40	57	48	41	36	38	33	29	28	25	23	19	17	16	12				
6	59	48	40	35	53	43	36	32	34	29	26	25	22	20	18	16	14	11				
7	55	43	35	30	49	39	32	28	31	26	22	23	20	17	16	14	12	10				
8	51	39	32	26	45	35	29	24	28	23	20	21	18	15	15	13	11	9				
9	47	35	28	23	42	32	26	21	25	21	18	19	16	14	13	11	10	8				
10	44	32	25	21	39	29	23	19	23	19	16	18	15	12	12	10	9	7				

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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.6	0.9
10°-20°	143.2	2.7
20°-30°	240.3	4.6
30°-40°	272.0	5.2
40°-50°	244.0	4.7
50°-60°	196.9	3.8
60°-70°	137.2	2.6
70°-80°	72.1	1.4
80°-90°	21.8	0.4
90°-100°	90.8	1.7
100°-110°	271.8	5.2
110°-120°	462.3	8.8
120°-130°	608.1	11.6
130°-140°	683.5	13.1
140°-150°	671.9	12.8
150°-160°	565.6	10.8
160°-170°	376.5	7.2
170°-180°	131.8	2.5
0°-30°	428.1	8.2
0°-40°	700.1	13.4
0°-60°	1140.9	21.8
0°-90°	1372.0	26.2
90°-120°	825.0	15.8
90°-150°	2788.5	53.3
90°-180°	3863.0	73.8
0°-180°	5234.5	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°	33	1	33	1	33	17
95°	85	65	85	65	85	88
105°	261	246	261	246	261	277
115°	467	465	467	465	467	462
125°	674	681	674	681	674	602
135°	883	884	883	884	883	679
145°	1072	1072	1072	1072	1072	669
155°	1225	1228	1225	1228	1225	564
165°	1333	1337	1333	1337	1333	376
175°	1385	1391	1385	1391	1385	132
180°	1394	1394	1394	1394	1394	



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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°	11.9	11.4	11.5	11.6	11.3	11.3	11.3	11.3	11.2	11.2	10.7
90°	32.9	32.3	31.9	31.4	30.9	30.2	29.2	28.3	27.2	26.3	23.1
92.5°	44.2	44.5	44.9	45.1	45.4	45.1	44.4	43.6	42.8	42.0	40.2
95°	85.4	85.4	85.4	85.4	85.4	84.9	84.0	82.9	82.0	81.1	79.1
97.5°	131.4	131.5	131.6	131.7	131.8	131.3	130.2	129.0	127.9	126.8	125.4
100°	166.5	166.0	165.5	165.0	164.5	163.9	163.2	162.4	161.7	161.0	159.8
102.5°	202.4	202.5	202.6	202.6	202.7	202.5	201.7	201.0	200.3	199.5	197.9
105°	260.6	260.1	259.7	259.2	258.7	258.4	258.4	258.4	258.4	258.4	256.3
107.5°	321.3	321.6	321.9	322.2	322.4	322.3	321.5	320.7	319.9	319.1	318.2
110°	362.5	363.0	363.4	363.9	364.4	364.2	363.3	362.2	361.3	360.3	359.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	406.3	406.4	406.5	406.6	406.7	406.1	405.0	403.8	402.7	401.4	401.3
115°	466.6	466.7	467.0	467.2	467.5	467.5	467.2	467.0	466.7	466.6	467.0
117.5°	527.6	528.3	529.0	529.7	530.4	530.7	530.7	530.8	530.8	530.9	531.6
120°	570.5	571.1	571.6	572.0	572.5	572.9	573.2	573.3	573.6	573.8	575.0
122.5°	611.7	612.4	613.1	613.8	614.4	615.1	615.8	616.4	617.0	617.6	618.3
125°	673.5	674.5	675.4	676.5	677.4	678.3	679.4	680.3	681.3	682.3	682.8
127.5°	735.1	736.1	737.3	738.4	739.5	740.7	742.2	743.5	744.9	746.2	746.8
130°	775.3	777.0	778.7	780.4	782.1	783.5	784.5	785.4	786.5	787.4	788.2
132.5°	817.4	818.7	820.0	821.3	822.7	823.9	825.1	826.2	827.4	828.6	829.1
135°	882.7	883.2	883.6	884.1	884.6	885.3	886.3	887.3	888.3	889.2	889.5
137.5°	940.3	941.2	942.2	943.0	944.0	944.9	945.9	947.0	948.0	949.0	948.4
140°	978.0	979.7	981.4	983.1	984.8	985.7	986.0	986.2	986.5	986.7	986.5
142.5°	1016.5	1017.9	1019.1	1020.4	1021.7	1022.6	1022.8	1023.0	1023.2	1023.5	1023.0
145°	1072.1	1073.1	1074.0	1075.1	1076.0	1076.7	1076.9	1077.1	1077.3	1077.6	1076.9
147.5°	1121.6	1123.0	1124.5	1126.0	1127.5	1128.2	1128.2	1128.2	1128.2	1128.2	1127.5
150°	1153.2	1154.6	1156.1	1157.5	1159.0	1159.7	1159.7	1159.7	1159.7	1159.7	1159.2
152.5°	1183.8	1185.1	1186.4	1187.6	1188.9	1189.3	1188.9	1188.5	1188.2	1187.8	1187.5
155°	1225.4	1227.2	1228.9	1230.6	1232.3	1232.7	1231.6	1230.7	1229.7	1228.7	1228.5
157.5°	1263.3	1264.7	1266.0	1267.4	1268.8	1268.9	1267.9	1266.9	1265.9	1264.9	1264.7
160°	1287.9	1288.8	1289.8	1290.8	1291.8	1291.7	1290.4	1289.2	1288.0	1286.8	1286.8
162.5°	1306.3	1307.8	1309.4	1310.9	1312.5	1312.7	1311.5	1310.2	1309.0	1307.8	1307.6
165°	1332.8	1334.5	1336.1	1337.8	1339.5	1339.7	1338.2	1336.8	1335.3	1333.9	1333.9
167.5°	1355.3	1356.8	1358.3	1359.8	1361.3	1361.3	1359.8	1358.3	1356.8	1355.3	1355.1
170°	1366.7	1368.4	1370.1	1371.9	1373.6	1373.6	1371.9	1370.1	1368.4	1366.7	1366.7
172.5°	1375.5	1377.1	1378.8	1380.5	1382.3	1382.4	1380.9	1379.4	1377.9	1376.4	1376.4
175°	1385.3	1387.0	1388.7	1390.4	1392.1	1392.2	1390.8	1389.3	1387.9	1386.4	1386.4
177.5°	1390.6	1391.9	1393.3	1394.7	1396.0	1396.1	1395.0	1393.8	1392.6	1391.5	1391.5
180°	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1



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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°	10.5	10.0	8.9	7.6	6.8	5.7	5.3	4.4	4.5	5.1	5.4
90°	20.0	16.8	13.7	10.8	8.4	5.9	3.5	1.1	3.5	5.9	8.4
92.5°	38.5	36.7	34.9	33.1	31.5	29.8	28.2	26.5	28.2	29.8	31.5
95°	77.1	75.2	73.2	71.4	69.7	68.1	66.4	64.7	66.4	68.1	69.7
97.5°	124.0	122.6	121.2	119.8	118.6	117.3	116.0	114.8	116.0	117.3	118.6
100°	158.5	157.3	156.1	154.8	153.4	151.8	150.4	148.9	150.4	151.8	153.4
102.5°	196.3	194.7	193.1	191.9	191.0	190.1	189.3	188.3	189.3	190.1	191.0
105°	254.1	251.8	249.7	248.4	247.9	247.4	246.9	246.4	246.9	247.4	247.9
107.5°	317.4	316.5	315.7	315.0	314.7	314.4	314.1	313.9	314.1	314.4	314.7
110°	359.3	358.8	358.4	357.9	357.4	356.8	356.4	355.9	356.4	356.8	357.4



TEST NUMBER: P331902-830

CATALOG NUMBER: S123DIP-S340D1195U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	401.2	401.1	401.1	400.9	400.6	400.3	400.0	399.7	400.0	400.3	400.6
115°	467.5	468.0	468.4	468.3	467.6	466.8	466.2	465.4	466.2	466.8	467.6
117.5°	532.2	532.8	533.5	533.5	533.0	532.5	532.1	531.6	532.1	532.5	533.0
120°	576.3	577.5	578.7	578.6	577.1	575.7	574.2	572.8	574.2	575.7	577.1
122.5°	618.9	619.5	620.2	620.0	618.9	617.8	616.7	615.7	616.7	617.8	618.9
125°	683.2	683.7	684.2	684.1	683.3	682.6	681.9	681.2	681.9	682.6	683.3
127.5°	747.2	747.8	748.4	747.8	746.3	744.7	743.2	741.6	743.2	744.7	746.3
130°	788.8	789.6	790.3	789.7	787.8	785.8	783.8	781.9	783.8	785.8	787.8
132.5°	829.6	830.2	830.8	830.0	828.0	826.1	824.2	822.2	824.2	826.1	828.0
135°	889.8	889.9	890.2	889.6	888.2	886.6	885.2	883.7	885.2	886.6	888.2
137.5°	947.7	947.2	946.5	945.6	944.3	943.1	941.9	940.8	941.9	943.1	944.3
140°	986.2	986.0	985.7	985.0	983.8	982.6	981.4	980.1	981.4	982.6	983.8
142.5°	1022.7	1022.2	1021.7	1021.0	1019.7	1018.5	1017.3	1016.1	1017.3	1018.5	1019.7
145°	1076.1	1075.4	1074.7	1074.0	1073.6	1073.1	1072.6	1072.1	1072.6	1073.1	1073.6
147.5°	1126.8	1126.1	1125.5	1124.7	1123.8	1122.9	1122.1	1121.2	1122.1	1122.9	1123.8
150°	1158.8	1158.3	1157.8	1157.3	1156.8	1156.3	1155.8	1155.4	1155.8	1156.3	1156.8
152.5°	1187.2	1186.8	1186.6	1186.1	1185.4	1184.8	1184.1	1183.4	1184.1	1184.8	1185.4
155°	1228.2	1228.0	1227.8	1227.7	1227.7	1227.7	1227.7	1227.7	1227.7	1227.7	1227.7
157.5°	1264.5	1264.3	1264.0	1264.1	1264.4	1264.7	1265.0	1265.3	1265.0	1264.7	1264.4
160°	1286.8	1286.8	1286.8	1287.0	1287.5	1288.0	1288.5	1288.9	1288.5	1288.0	1287.5
162.5°	1307.4	1307.2	1307.0	1307.3	1308.0	1308.6	1309.3	1309.9	1309.3	1308.6	1308.0
165°	1333.9	1333.9	1333.9	1334.3	1334.9	1335.7	1336.4	1337.2	1336.4	1335.7	1334.9
167.5°	1354.9	1354.7	1354.5	1354.9	1355.9	1356.9	1357.8	1358.9	1357.8	1356.9	1355.9
170°	1366.7	1366.7	1366.7	1367.2	1368.2	1369.1	1370.1	1371.1	1370.1	1369.1	1368.2
172.5°	1376.4	1376.4	1376.4	1376.9	1377.8	1378.8	1379.8	1380.7	1379.8	1378.8	1377.8
175°	1386.4	1386.4	1386.4	1387.0	1387.9	1388.8	1389.9	1390.8	1389.9	1388.8	1387.9
177.5°	1391.5	1391.5	1391.5	1391.9	1392.6	1393.5	1394.2	1395.0	1394.2	1393.5	1392.6
180°	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1



TEST NUMBER: P331902-830

CATALOG NUMBER: S123DIP-S340D1195U830-4F0-1E-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°	5.7	6.4	6.9	7.6	8.1	9.0	9.1	9.0	9.1	9.9	9.3
90°	10.8	13.7	16.8	20.0	23.1	26.3	27.2	28.3	29.2	30.2	30.9
92.5°	33.1	34.9	36.7	38.5	40.2	42.0	42.8	43.6	44.4	45.1	45.4
95°	71.4	73.2	75.2	77.1	79.1	81.1	82.0	82.9	84.0	84.9	85.4
97.5°	119.8	121.2	122.6	124.0	125.4	126.8	127.9	129.0	130.2	131.3	131.8
100°	154.8	156.1	157.3	158.5	159.8	161.0	161.7	162.4	163.2	163.9	164.5
102.5°	191.9	193.1	194.7	196.3	197.9	199.5	200.3	201.0	201.7	202.5	202.7
105°	248.4	249.7	251.8	254.1	256.3	258.4	258.4	258.4	258.4	258.4	258.7
107.5°	315.0	315.7	316.5	317.4	318.2	319.1	319.9	320.7	321.5	322.3	322.4
110°	357.9	358.4	358.8	359.3	359.8	360.3	361.3	362.2	363.3	364.2	364.4



TEST NUMBER: P331902-830

CATALOG NUMBER: S123DIP-S340D1195U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	400.9	401.1	401.1	401.2	401.3	401.4	402.7	403.8	405.0	406.1	406.7
115°	468.3	468.4	468.0	467.5	467.0	466.6	466.7	467.0	467.2	467.5	467.5
117.5°	533.5	533.5	532.8	532.2	531.6	530.9	530.8	530.8	530.7	530.7	530.4
120°	578.6	578.7	577.5	576.3	575.0	573.8	573.6	573.3	573.2	572.9	572.5
122.5°	620.0	620.2	619.5	618.9	618.3	617.6	617.0	616.4	615.8	615.1	614.4
125°	684.1	684.2	683.7	683.2	682.8	682.3	681.3	680.3	679.4	678.3	677.4
127.5°	747.8	748.4	747.8	747.2	746.8	746.2	744.9	743.5	742.2	740.7	739.5
130°	789.7	790.3	789.6	788.8	788.2	787.4	786.5	785.4	784.5	783.5	782.1
132.5°	830.0	830.8	830.2	829.6	829.1	828.6	827.4	826.2	825.1	823.9	822.7
135°	889.6	890.2	889.9	889.8	889.5	889.2	888.3	887.3	886.3	885.3	884.6
137.5°	945.6	946.5	947.2	947.7	948.4	949.0	948.0	947.0	945.9	944.9	944.0
140°	985.0	985.7	986.0	986.2	986.5	986.7	986.5	986.2	986.0	985.7	984.8
142.5°	1021.0	1021.7	1022.2	1022.7	1023.0	1023.5	1023.2	1023.0	1022.8	1022.6	1021.7
145°	1074.0	1074.7	1075.4	1076.1	1076.9	1077.6	1077.3	1077.1	1076.9	1076.7	1076.0
147.5°	1124.7	1125.5	1126.1	1126.8	1127.5	1128.2	1128.2	1128.2	1128.2	1128.2	1127.5
150°	1157.3	1157.8	1158.3	1158.8	1159.2	1159.7	1159.7	1159.7	1159.7	1159.7	1159.0
152.5°	1186.1	1186.6	1186.8	1187.2	1187.5	1187.8	1188.2	1188.5	1188.9	1189.3	1188.9
155°	1227.7	1227.8	1228.0	1228.2	1228.5	1228.7	1229.7	1230.7	1231.6	1232.7	1232.3
157.5°	1264.1	1264.0	1264.3	1264.5	1264.7	1264.9	1265.9	1266.9	1267.9	1268.9	1268.8
160°	1287.0	1286.8	1286.8	1286.8	1286.8	1286.8	1288.0	1289.2	1290.4	1291.7	1291.8
162.5°	1307.3	1307.0	1307.2	1307.4	1307.6	1307.8	1309.0	1310.2	1311.5	1312.7	1312.5
165°	1334.3	1333.9	1333.9	1333.9	1333.9	1333.9	1335.3	1336.8	1338.2	1339.7	1339.5
167.5°	1354.9	1354.5	1354.7	1354.9	1355.1	1355.3	1356.8	1358.3	1359.8	1361.3	1361.3
170°	1367.2	1366.7	1366.7	1366.7	1366.7	1366.7	1368.4	1370.1	1371.9	1373.6	1373.6
172.5°	1376.9	1376.4	1376.4	1376.4	1376.4	1376.4	1377.9	1379.4	1380.9	1382.4	1382.3
175°	1387.0	1386.4	1386.4	1386.4	1386.4	1386.4	1387.9	1389.3	1390.8	1392.2	1392.1
177.5°	1391.9	1391.5	1391.5	1391.5	1391.5	1391.5	1392.6	1393.8	1395.0	1396.1	1396.0
180°	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1



TEST NUMBER: P331902-830

CATALOG NUMBER: S123DIP-S340D1195U830-4F0-1E-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°	9.4	9.5	9.4	9.4	9.4	9.5	9.4	9.3	9.9	9.1	9.0
90°	31.4	31.9	32.3	32.9	32.3	31.9	31.4	30.9	30.2	29.2	28.3
92.5°	45.1	44.9	44.5	44.2	44.5	44.9	45.1	45.4	45.1	44.4	43.6
95°	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	84.9	84.0	82.9
97.5°	131.7	131.6	131.5	131.4	131.5	131.6	131.7	131.8	131.3	130.2	129.0
100°	165.0	165.5	166.0	166.5	166.0	165.5	165.0	164.5	163.9	163.2	162.4
102.5°	202.6	202.6	202.5	202.4	202.5	202.6	202.6	202.7	202.5	201.7	201.0
105°	259.2	259.7	260.1	260.6	260.1	259.7	259.2	258.7	258.4	258.4	258.4
107.5°	322.2	321.9	321.6	321.3	321.6	321.9	322.2	322.4	322.3	321.5	320.7
110°	363.9	363.4	363.0	362.5	363.0	363.4	363.9	364.4	364.2	363.3	362.2



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	406.6	406.5	406.4	406.3	406.4	406.5	406.6	406.7	406.1	405.0	403.8
115°	467.2	467.0	466.7	466.6	466.7	467.0	467.2	467.5	467.5	467.2	467.0
117.5°	529.7	529.0	528.3	527.6	528.3	529.0	529.7	530.4	530.7	530.7	530.8
120°	572.0	571.6	571.1	570.5	571.1	571.6	572.0	572.5	572.9	573.2	573.3
122.5°	613.8	613.1	612.4	611.7	612.4	613.1	613.8	614.4	615.1	615.8	616.4
125°	676.5	675.4	674.5	673.5	674.5	675.4	676.5	677.4	678.3	679.4	680.3
127.5°	738.4	737.3	736.1	735.1	736.1	737.3	738.4	739.5	740.7	742.2	743.5
130°	780.4	778.7	777.0	775.3	777.0	778.7	780.4	782.1	783.5	784.5	785.4
132.5°	821.3	820.0	818.7	817.4	818.7	820.0	821.3	822.7	823.9	825.1	826.2
135°	884.1	883.6	883.2	882.7	883.2	883.6	884.1	884.6	885.3	886.3	887.3
137.5°	943.0	942.2	941.2	940.3	941.2	942.2	943.0	944.0	944.9	945.9	947.0
140°	983.1	981.4	979.7	978.0	979.7	981.4	983.1	984.8	985.7	986.0	986.2
142.5°	1020.4	1019.1	1017.9	1016.5	1017.9	1019.1	1020.4	1021.7	1022.6	1022.8	1023.0
145°	1075.1	1074.0	1073.1	1072.1	1073.1	1074.0	1075.1	1076.0	1076.7	1076.9	1077.1
147.5°	1126.0	1124.5	1123.0	1121.6	1123.0	1124.5	1126.0	1127.5	1128.2	1128.2	1128.2
150°	1157.5	1156.1	1154.6	1153.2	1154.6	1156.1	1157.5	1159.0	1159.7	1159.7	1159.7
152.5°	1187.6	1186.4	1185.1	1183.8	1185.1	1186.4	1187.6	1188.9	1189.3	1188.9	1188.5
155°	1230.6	1228.9	1227.2	1225.4	1227.2	1228.9	1230.6	1232.3	1232.7	1231.6	1230.7
157.5°	1267.4	1266.0	1264.7	1263.3	1264.7	1266.0	1267.4	1268.8	1268.9	1267.9	1266.9
160°	1290.8	1289.8	1288.8	1287.9	1288.8	1289.8	1290.8	1291.8	1291.7	1290.4	1289.2
162.5°	1310.9	1309.4	1307.8	1306.3	1307.8	1309.4	1310.9	1312.5	1312.7	1311.5	1310.2
165°	1337.8	1336.1	1334.5	1332.8	1334.5	1336.1	1337.8	1339.5	1339.7	1338.2	1336.8
167.5°	1359.8	1358.3	1356.8	1355.3	1356.8	1358.3	1359.8	1361.3	1361.3	1359.8	1358.3
170°	1371.9	1370.1	1368.4	1366.7	1368.4	1370.1	1371.9	1373.6	1373.6	1371.9	1370.1
172.5°	1380.5	1378.8	1377.1	1375.5	1377.1	1378.8	1380.5	1382.3	1382.4	1380.9	1379.4
175°	1390.4	1388.7	1387.0	1385.3	1387.0	1388.7	1390.4	1392.1	1392.2	1390.8	1389.3
177.5°	1394.7	1393.3	1391.9	1390.6	1391.9	1393.3	1394.7	1396.0	1396.1	1395.0	1393.8
180°	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1



TEST NUMBER: P331902-830

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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°	9.1	9.0	8.1	7.6	6.9	6.4	5.7	5.4	5.1	4.5	4.4
90°	27.2	26.3	23.1	20.0	16.8	13.7	10.8	8.4	5.9	3.5	1.1
92.5°	42.8	42.0	40.2	38.5	36.7	34.9	33.1	31.5	29.8	28.2	26.5
95°	82.0	81.1	79.1	77.1	75.2	73.2	71.4	69.7	68.1	66.4	64.7
97.5°	127.9	126.8	125.4	124.0	122.6	121.2	119.8	118.6	117.3	116.0	114.8
100°	161.7	161.0	159.8	158.5	157.3	156.1	154.8	153.4	151.8	150.4	148.9
102.5°	200.3	199.5	197.9	196.3	194.7	193.1	191.9	191.0	190.1	189.3	188.3
105°	258.4	258.4	256.3	254.1	251.8	249.7	248.4	247.9	247.4	246.9	246.4
107.5°	319.9	319.1	318.2	317.4	316.5	315.7	315.0	314.7	314.4	314.1	313.9
110°	361.3	360.3	359.8	359.3	358.8	358.4	357.9	357.4	356.8	356.4	355.9



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	402.7	401.4	401.3	401.2	401.1	401.1	400.9	400.6	400.3	400.0	399.7
115°	466.7	466.6	467.0	467.5	468.0	468.4	468.3	467.6	466.8	466.2	465.4
117.5°	530.8	530.9	531.6	532.2	532.8	533.5	533.5	533.0	532.5	532.1	531.6
120°	573.6	573.8	575.0	576.3	577.5	578.7	578.6	577.1	575.7	574.2	572.8
122.5°	617.0	617.6	618.3	618.9	619.5	620.2	620.0	618.9	617.8	616.7	615.7
125°	681.3	682.3	682.8	683.2	683.7	684.2	684.1	683.3	682.6	681.9	681.2
127.5°	744.9	746.2	746.8	747.2	747.8	748.4	747.8	746.3	744.7	743.2	741.6
130°	786.5	787.4	788.2	788.8	789.6	790.3	789.7	787.8	785.8	783.8	781.9
132.5°	827.4	828.6	829.1	829.6	830.2	830.8	830.0	828.0	826.1	824.2	822.2
135°	888.3	889.2	889.5	889.8	889.9	890.2	889.6	888.2	886.6	885.2	883.7
137.5°	948.0	949.0	948.4	947.7	947.2	946.5	945.6	944.3	943.1	941.9	940.8
140°	986.5	986.7	986.5	986.2	986.0	985.7	985.0	983.8	982.6	981.4	980.1
142.5°	1023.2	1023.5	1023.0	1022.7	1022.2	1021.7	1021.0	1019.7	1018.5	1017.3	1016.1
145°	1077.3	1077.6	1076.9	1076.1	1075.4	1074.7	1074.0	1073.6	1073.1	1072.6	1072.1
147.5°	1128.2	1128.2	1127.5	1126.8	1126.1	1125.5	1124.7	1123.8	1122.9	1122.1	1121.2
150°	1159.7	1159.7	1159.2	1158.8	1158.3	1157.8	1157.3	1156.8	1156.3	1155.8	1155.4
152.5°	1188.2	1187.8	1187.5	1187.2	1186.8	1186.6	1186.1	1185.4	1184.8	1184.1	1183.4
155°	1229.7	1228.7	1228.5	1228.2	1228.0	1227.8	1227.7	1227.7	1227.7	1227.7	1227.7
157.5°	1265.9	1264.9	1264.7	1264.5	1264.3	1264.0	1264.1	1264.4	1264.7	1265.0	1265.3
160°	1288.0	1286.8	1286.8	1286.8	1286.8	1286.8	1287.0	1287.5	1288.0	1288.5	1288.9
162.5°	1309.0	1307.8	1307.6	1307.4	1307.2	1307.0	1307.3	1308.0	1308.6	1309.3	1309.9
165°	1335.3	1333.9	1333.9	1333.9	1333.9	1333.9	1334.3	1334.9	1335.7	1336.4	1337.2
167.5°	1356.8	1355.3	1355.1	1354.9	1354.7	1354.5	1354.9	1355.9	1356.9	1357.8	1358.9
170°	1368.4	1366.7	1366.7	1366.7	1366.7	1366.7	1367.2	1368.2	1369.1	1370.1	1371.1
172.5°	1377.9	1376.4	1376.4	1376.4	1376.4	1376.4	1376.9	1377.8	1378.8	1379.8	1380.7
175°	1387.9	1386.4	1386.4	1386.4	1386.4	1386.4	1387.0	1387.9	1388.8	1389.9	1390.8
177.5°	1392.6	1391.5	1391.5	1391.5	1391.5	1391.5	1391.9	1392.6	1393.5	1394.2	1395.0
180°	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1



TEST NUMBER: P331902-830

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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°	5.3	5.7	6.8	7.6	8.9	10.0	10.5	10.7	11.2	11.2	11.3
90°	3.5	5.9	8.4	10.8	13.7	16.8	20.0	23.1	26.3	27.2	28.3
92.5°	28.2	29.8	31.5	33.1	34.9	36.7	38.5	40.2	42.0	42.8	43.6
95°	66.4	68.1	69.7	71.4	73.2	75.2	77.1	79.1	81.1	82.0	82.9
97.5°	116.0	117.3	118.6	119.8	121.2	122.6	124.0	125.4	126.8	127.9	129.0
100°	150.4	151.8	153.4	154.8	156.1	157.3	158.5	159.8	161.0	161.7	162.4
102.5°	189.3	190.1	191.0	191.9	193.1	194.7	196.3	197.9	199.5	200.3	201.0
105°	246.9	247.4	247.9	248.4	249.7	251.8	254.1	256.3	258.4	258.4	258.4
107.5°	314.1	314.4	314.7	315.0	315.7	316.5	317.4	318.2	319.1	319.9	320.7
110°	356.4	356.8	357.4	357.9	358.4	358.8	359.3	359.8	360.3	361.3	362.2



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	400.0	400.3	400.6	400.9	401.1	401.1	401.2	401.3	401.4	402.7	403.8
115°	466.2	466.8	467.6	468.3	468.4	468.0	467.5	467.0	466.6	466.7	467.0
117.5°	532.1	532.5	533.0	533.5	533.5	532.8	532.2	531.6	530.9	530.8	530.8
120°	574.2	575.7	577.1	578.6	578.7	577.5	576.3	575.0	573.8	573.6	573.3
122.5°	616.7	617.8	618.9	620.0	620.2	619.5	618.9	618.3	617.6	617.0	616.4
125°	681.9	682.6	683.3	684.1	684.2	683.7	683.2	682.8	682.3	681.3	680.3
127.5°	743.2	744.7	746.3	747.8	748.4	747.8	747.2	746.8	746.2	744.9	743.5
130°	783.8	785.8	787.8	789.7	790.3	789.6	788.8	788.2	787.4	786.5	785.4
132.5°	824.2	826.1	828.0	830.0	830.8	830.2	829.6	829.1	828.6	827.4	826.2
135°	885.2	886.6	888.2	889.6	890.2	889.9	889.8	889.5	889.2	888.3	887.3
137.5°	941.9	943.1	944.3	945.6	946.5	947.2	947.7	948.4	949.0	948.0	947.0
140°	981.4	982.6	983.8	985.0	985.7	986.0	986.2	986.5	986.7	986.5	986.2
142.5°	1017.3	1018.5	1019.7	1021.0	1021.7	1022.2	1022.7	1023.0	1023.5	1023.2	1023.0
145°	1072.6	1073.1	1073.6	1074.0	1074.7	1075.4	1076.1	1076.9	1077.6	1077.3	1077.1
147.5°	1122.1	1122.9	1123.8	1124.7	1125.5	1126.1	1126.8	1127.5	1128.2	1128.2	1128.2
150°	1155.8	1156.3	1156.8	1157.3	1157.8	1158.3	1158.8	1159.2	1159.7	1159.7	1159.7
152.5°	1184.1	1184.8	1185.4	1186.1	1186.6	1186.8	1187.2	1187.5	1187.8	1188.2	1188.5
155°	1227.7	1227.7	1227.7	1227.7	1227.8	1228.0	1228.2	1228.5	1228.7	1229.7	1230.7
157.5°	1265.0	1264.7	1264.4	1264.1	1264.0	1264.3	1264.5	1264.7	1264.9	1265.9	1266.9
160°	1288.5	1288.0	1287.5	1287.0	1286.8	1286.8	1286.8	1286.8	1286.8	1288.0	1289.2
162.5°	1309.3	1308.6	1308.0	1307.3	1307.0	1307.2	1307.4	1307.6	1307.8	1309.0	1310.2
165°	1336.4	1335.7	1334.9	1334.3	1333.9	1333.9	1333.9	1333.9	1333.9	1335.3	1336.8
167.5°	1357.8	1356.9	1355.9	1354.9	1354.5	1354.7	1354.9	1355.1	1355.3	1356.8	1358.3
170°	1370.1	1369.1	1368.2	1367.2	1366.7	1366.7	1366.7	1366.7	1366.7	1368.4	1370.1
172.5°	1379.8	1378.8	1377.8	1376.9	1376.4	1376.4	1376.4	1376.4	1376.4	1377.9	1379.4
175°	1389.9	1388.8	1387.9	1387.0	1386.4	1386.4	1386.4	1386.4	1386.4	1387.9	1389.3
177.5°	1394.2	1393.5	1392.6	1391.9	1391.5	1391.5	1391.5	1391.5	1391.5	1392.6	1393.8
180°	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1



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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°	11.3	11.3	11.3	11.6	11.5	11.4	11.9
90°	29.2	30.2	30.9	31.4	31.9	32.3	32.9
92.5°	44.4	45.1	45.4	45.1	44.9	44.5	44.2
95°	84.0	84.9	85.4	85.4	85.4	85.4	85.4
97.5°	130.2	131.3	131.8	131.7	131.6	131.5	131.4
100°	163.2	163.9	164.5	165.0	165.5	166.0	166.5
102.5°	201.7	202.5	202.7	202.6	202.6	202.5	202.4
105°	258.4	258.4	258.7	259.2	259.7	260.1	260.6
107.5°	321.5	322.3	322.4	322.2	321.9	321.6	321.3
110°	363.3	364.2	364.4	363.9	363.4	363.0	362.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	405.0	406.1	406.7	406.6	406.5	406.4	406.3
115°	467.2	467.5	467.5	467.2	467.0	466.7	466.6
117.5°	530.7	530.7	530.4	529.7	529.0	528.3	527.6
120°	573.2	572.9	572.5	572.0	571.6	571.1	570.5
122.5°	615.8	615.1	614.4	613.8	613.1	612.4	611.7
125°	679.4	678.3	677.4	676.5	675.4	674.5	673.5
127.5°	742.2	740.7	739.5	738.4	737.3	736.1	735.1
130°	784.5	783.5	782.1	780.4	778.7	777.0	775.3
132.5°	825.1	823.9	822.7	821.3	820.0	818.7	817.4
135°	886.3	885.3	884.6	884.1	883.6	883.2	882.7
137.5°	945.9	944.9	944.0	943.0	942.2	941.2	940.3
140°	986.0	985.7	984.8	983.1	981.4	979.7	978.0
142.5°	1022.8	1022.6	1021.7	1020.4	1019.1	1017.9	1016.5
145°	1076.9	1076.7	1076.0	1075.1	1074.0	1073.1	1072.1
147.5°	1128.2	1128.2	1127.5	1126.0	1124.5	1123.0	1121.6
150°	1159.7	1159.7	1159.0	1157.5	1156.1	1154.6	1153.2
152.5°	1188.9	1189.3	1188.9	1187.6	1186.4	1185.1	1183.8
155°	1231.6	1232.7	1232.3	1230.6	1228.9	1227.2	1225.4
157.5°	1267.9	1268.9	1268.8	1267.4	1266.0	1264.7	1263.3
160°	1290.4	1291.7	1291.8	1290.8	1289.8	1288.8	1287.9
162.5°	1311.5	1312.7	1312.5	1310.9	1309.4	1307.8	1306.3
165°	1338.2	1339.7	1339.5	1337.8	1336.1	1334.5	1332.8
167.5°	1359.8	1361.3	1361.3	1359.8	1358.3	1356.8	1355.3
170°	1371.9	1373.6	1373.6	1371.9	1370.1	1368.4	1366.7
172.5°	1380.9	1382.4	1382.3	1380.5	1378.8	1377.1	1375.5
175°	1390.8	1392.2	1392.1	1390.4	1388.7	1387.0	1385.3
177.5°	1395.0	1396.1	1396.0	1394.7	1393.3	1391.9	1390.6
180°	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1	1394.1

(END OF REPORT)