

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: P332102-935

Luminaire Tested: **S123DIW-S340D1030U935-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332102-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIW-S340D1030U935-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1030 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4802.5 lumens
Efficiency: N/A
Efficacy: 126.4 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

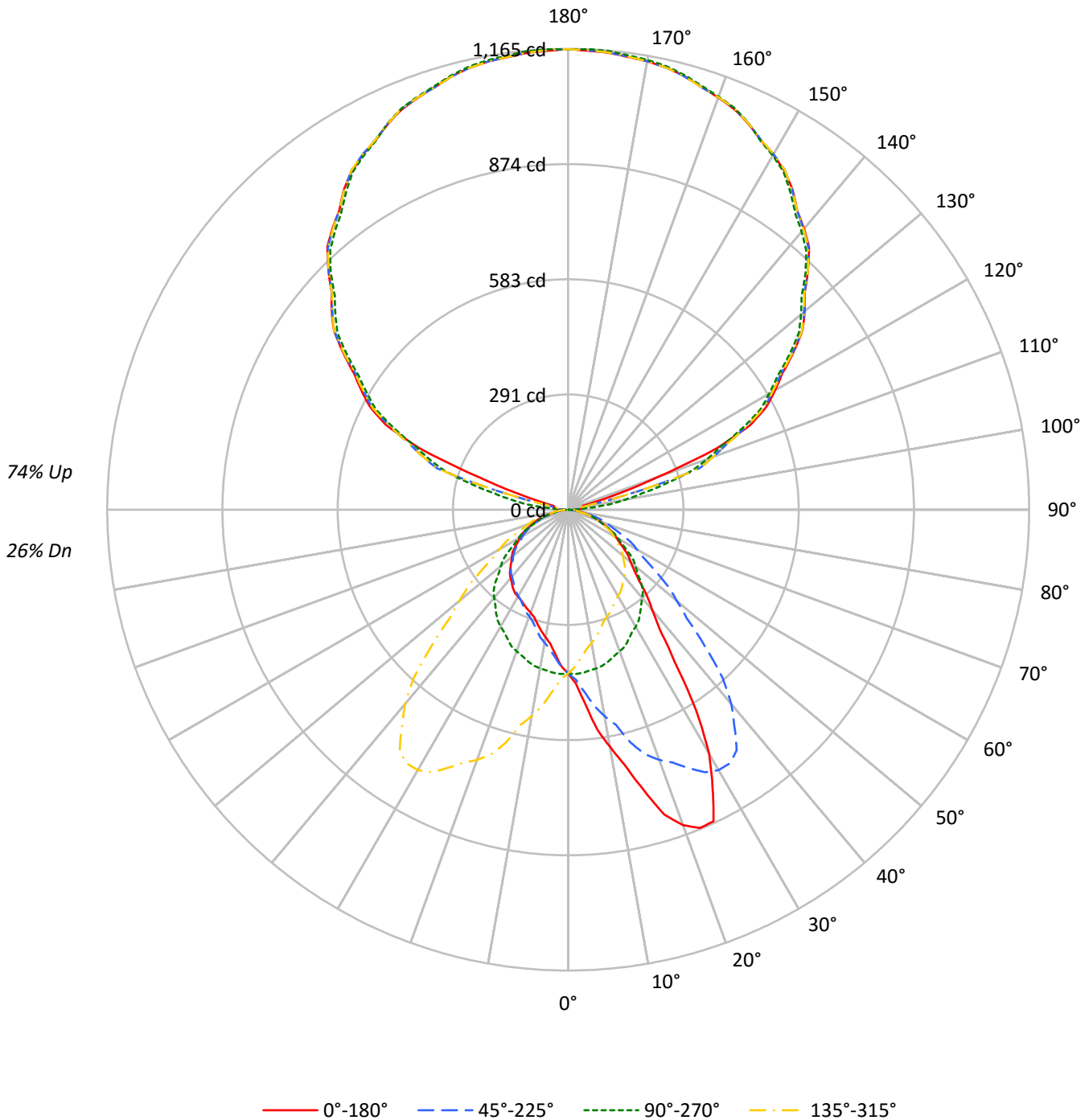
Input Watts (W): 38
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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	101	101	101	101	90	90	90	90	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	30	24	22	21	16
4	70	60	53	47	63	54	48	43	42	38	34	31	29	26	21	20	18	14
5	64	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	17	16	14	11
7	55	43	35	30	49	39	32	28	31	26	22	23	20	17	16	14	12	9
8	51	39	31	26	45	35	29	24	28	23	20	21	18	15	15	13	11	8
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°	4456	4456	4456	4456
5°	5314	4475	3965	4475
10°	6652	4453	3583	4453
15°	8158	4416	3335	4416
20°	9718	4361	3175	4361
25°	10320	4292	3139	4292
30°	8846	4243	3156	4243
35°	6151	4172	3189	4172
40°	4634	4089	3180	4089
45°	3847	3965	3139	3965
50°	3446	3716	3110	3716
55°	3222	3445	3072	3445
60°	3023	3160	3040	3160
65°	2840	2881	2942	2881
70°	2662	2565	2801	2565
75°	2383	2246	2570	2246
80°	2089	1841	2213	1841
85°	1643	1334	1494	1334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.8	0.8
10°-20°	130.8	2.7
20°-30°	219.5	4.6
30°-40°	248.5	5.2
40°-50°	222.9	4.6
50°-60°	179.8	3.7
60°-70°	125.3	2.6
70°-80°	65.9	1.4
80°-90°	19.4	0.4
90°-100°	42.3	0.9
100°-110°	201.7	4.2
110°-120°	484.5	10.1
120°-130°	616.9	12.8
130°-140°	659.2	13.7
140°-150°	616.4	12.8
150°-160°	497.2	10.4
160°-170°	320.9	6.7
170°-180°	110.6	2.3
0°-30°	391.0	8.1
0°-40°	639.5	13.3
0°-60°	1042.2	21.7
0°-90°	1252.8	26.1
90°-120°	728.5	15.2
90°-150°	2621.0	54.6
90°-180°	3550.0	73.9
0°-180°	4802.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	414	414	414	414	414	
5°	492	414	367	414	492	51
15°	732	396	299	396	732	211
25°	869	361	264	361	869	381
35°	468	318	243	318	468	304
45°	253	260	206	260	253	200
55°	172	184	164	184	172	154
65°	112	113	116	113	112	111
75°	57	54	62	54	57	61
85°	13	11	12	11	13	16
90°	26	1	26	1	26	12
95°	33	53	33	53	33	27
105°	38	258	38	258	38	87
115°	508	484	508	484	508	470
125°	695	682	695	682	695	621
135°	857	848	857	848	857	661
145°	988	979	988	979	988	617
155°	1077	1078	1077	1078	1077	496
165°	1135	1137	1135	1137	1135	320
175°	1160	1164	1160	1164	1160	110
180°	1164	1164	1164	1164	1164	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0
2.5°	439.4	439.0	438.2	438.9	437.6	435.8	435.7	434.0	429.4	429.1	427.8
5°	491.8	490.3	490.0	489.8	487.0	483.2	476.0	475.4	465.7	461.0	455.1
7.5°	559.8	560.6	557.7	555.2	546.6	540.9	533.1	523.2	511.4	499.4	491.5
10°	608.6	615.2	607.0	601.3	596.2	586.3	574.9	560.6	546.4	529.8	517.1
12.5°	660.9	664.1	662.5	657.2	649.1	634.1	613.9	598.1	585.0	557.3	546.1
15°	732.1	744.3	736.5	718.5	718.8	704.6	678.2	649.1	633.6	609.3	576.3
17.5°	808.0	809.5	806.2	791.2	781.2	761.6	737.1	709.3	678.0	648.6	613.5
20°	848.4	847.2	840.2	832.4	815.2	800.0	773.3	742.2	702.1	673.1	634.8
22.5°	870.9	868.9	865.6	859.0	844.7	828.4	804.3	770.4	732.2	692.4	648.2
25°	868.9	871.5	871.9	870.1	865.1	855.3	836.5	809.3	771.3	720.1	674.0
27.5°	790.3	794.0	804.7	814.2	824.8	835.7	834.2	820.8	792.6	748.4	692.0
30°	711.7	703.6	723.5	748.6	765.6	795.7	812.5	813.6	797.7	759.8	704.8
32.5°	602.5	611.4	620.2	651.0	688.3	722.0	755.6	782.6	785.7	760.4	712.4
35°	468.1	479.2	495.2	511.3	551.4	585.9	644.9	696.2	737.1	742.5	713.1
37.5°	377.3	382.7	392.9	409.0	435.1	476.1	521.7	586.6	645.9	690.0	691.9
40°	329.8	331.4	342.8	355.0	376.3	410.0	451.1	508.5	579.5	641.1	666.8
42.5°	294.1	297.6	302.6	314.3	331.2	356.5	394.8	442.2	507.3	578.2	628.4
45°	252.7	256.8	259.8	267.6	279.7	296.7	323.3	366.7	416.2	489.4	557.0
47.5°	225.4	225.7	227.9	233.8	242.0	254.9	273.7	301.5	347.0	406.4	475.8
50°	205.8	209.0	209.8	214.4	220.8	230.2	245.9	269.6	306.9	359.0	422.8
52.5°	192.0	193.0	195.2	198.5	204.1	211.5	225.1	243.6	272.9	317.4	376.0
55°	171.7	171.7	173.9	176.5	179.7	186.3	195.4	209.0	231.3	265.8	314.4
57.5°	152.9	153.9	155.5	156.3	159.0	163.4	170.9	181.3	197.9	224.5	263.0
60°	140.4	142.2	142.0	143.6	146.0	149.5	155.8	164.3	179.1	200.4	232.9
62.5°	129.5	129.4	129.3	131.3	133.6	136.9	141.1	148.4	161.0	179.9	207.5
65°	111.5	111.2	112.5	113.7	114.5	116.9	120.1	126.6	135.0	149.0	170.5
67.5°	95.6	94.4	95.1	95.6	96.9	98.8	101.9	105.8	112.4	123.7	139.9
70°	84.6	83.6	83.4	83.9	85.1	86.4	88.7	92.5	98.7	107.7	119.5
72.5°	73.4	72.8	72.7	73.6	74.1	75.1	76.6	80.1	85.1	91.9	102.9
75°	57.3	57.3	57.3	57.6	58.2	59.0	60.2	62.0	65.8	70.6	78.0
77.5°	43.0	43.0	42.7	42.7	43.6	43.9	44.2	45.9	48.0	51.2	56.7
80°	33.7	32.7	33.1	33.7	34.1	34.3	34.9	35.3	37.1	38.9	42.7
82.5°	25.1	24.2	24.3	25.2	25.3	25.5	26.1	26.6	27.3	28.9	31.0
85°	13.3	13.3	13.4	13.4	13.6	13.4	14.0	14.2	14.2	15.2	16.4
87.5°	10.0	9.6	9.7	9.7	9.6	9.6	9.6	9.6	9.6	9.6	9.3
90°	25.9	25.6	25.1	24.8	24.4	23.8	23.1	22.3	21.5	20.8	18.3
92.5°	28.7	28.5	28.2	28.0	27.8	27.0	25.8	24.6	23.3	22.1	20.2
95°	32.9	32.9	32.9	32.9	32.9	32.2	30.8	29.5	28.2	26.8	24.7
97.5°	35.6	35.5	35.2	35.0	34.9	34.0	32.5	30.9	29.4	27.8	41.7
100°	36.3	36.2	35.9	35.7	35.6	34.7	33.1	31.6	30.0	28.5	58.5
102.5°	37.0	36.7	36.3	36.0	35.6	37.8	42.6	47.4	52.2	56.9	89.6
105°	38.1	37.6	37.3	36.9	36.5	53.3	87.3	121.4	155.4	189.4	206.7
107.5°	119.5	145.2	170.8	196.4	222.1	247.4	272.3	297.2	322.2	347.2	344.4
110°	237.8	265.3	292.7	320.3	347.8	364.6	371.0	377.4	383.7	390.0	387.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	408.0	413.8	419.7	425.4	431.2	434.0	433.9	433.9	433.7	433.6	431.5
115°	508.5	507.7	507.0	506.2	505.4	504.1	502.1	500.2	498.3	496.4	494.6
117.5°	564.9	564.7	564.6	564.4	564.3	563.4	561.9	560.3	558.8	557.2	556.4
120°	603.6	603.6	603.6	603.6	603.6	602.9	601.3	599.8	598.2	596.7	596.2
122.5°	641.7	641.5	641.4	641.2	641.1	640.4	639.4	638.3	637.2	636.1	635.4
125°	695.3	694.9	694.5	694.1	693.8	693.4	693.0	692.6	692.2	691.8	691.0
127.5°	746.8	747.3	747.6	748.0	748.4	748.3	747.6	747.0	746.4	745.8	744.9
130°	780.1	780.4	780.8	781.2	781.6	781.4	780.6	779.9	779.1	778.3	777.6
132.5°	810.5	811.1	811.6	812.1	812.6	812.5	811.8	811.0	810.2	809.4	808.8
135°	857.0	857.6	858.2	858.8	859.3	859.3	858.8	858.2	857.6	857.0	856.3
137.5°	900.8	901.1	901.6	901.9	902.3	902.1	901.1	900.2	899.2	898.4	897.9
140°	927.0	927.5	927.8	928.2	928.6	928.4	927.6	926.9	926.1	925.3	924.7
142.5°	951.2	951.8	952.4	952.9	953.4	953.4	952.8	952.2	951.6	950.9	950.4
145°	988.4	988.4	988.4	988.4	988.4	988.3	987.9	987.5	987.1	986.7	986.4
147.5°	1016.2	1017.0	1017.9	1018.8	1019.7	1019.9	1019.5	1019.2	1018.7	1018.4	1018.0
150°	1036.9	1037.5	1038.0	1038.6	1039.2	1039.3	1038.9	1038.5	1038.1	1037.8	1037.3
152.5°	1053.5	1054.4	1055.2	1056.1	1057.0	1057.1	1056.4	1055.8	1055.1	1054.4	1054.1
155°	1076.7	1077.8	1079.0	1080.1	1081.2	1081.4	1080.4	1079.4	1078.5	1077.5	1077.4
157.5°	1096.2	1097.7	1099.2	1100.7	1102.2	1102.3	1101.2	1100.1	1098.9	1097.8	1097.9
160°	1108.6	1110.0	1111.4	1112.7	1114.0	1114.1	1113.0	1111.8	1110.7	1109.6	1109.7
162.5°	1120.4	1121.6	1122.8	1124.0	1125.2	1125.2	1123.9	1122.5	1121.2	1119.9	1120.1
165°	1134.6	1135.9	1137.3	1138.7	1140.0	1139.9	1138.3	1136.8	1135.3	1133.8	1133.9
167.5°	1144.8	1146.3	1147.9	1149.4	1151.0	1151.0	1149.4	1147.9	1146.3	1144.8	1144.8
170°	1151.1	1152.5	1154.1	1155.6	1157.2	1157.2	1155.6	1154.1	1152.5	1151.1	1151.1
172.5°	1154.5	1156.2	1157.9	1159.6	1161.2	1161.3	1159.8	1158.3	1156.8	1155.2	1155.0
175°	1159.7	1161.2	1162.8	1164.3	1165.9	1166.0	1164.6	1163.2	1161.9	1160.5	1160.4
177.5°	1161.2	1162.8	1164.3	1165.9	1167.4	1167.5	1166.3	1165.1	1163.9	1162.6	1162.4
180°	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0
2.5°	426.8	425.6	424.3	422.1	420.1	417.4	416.6	415.6	412.7	410.2	408.2
5°	452.9	448.1	441.1	434.6	429.5	422.4	418.4	414.2	408.2	402.8	398.4
7.5°	480.2	470.7	459.8	448.1	437.0	426.5	417.9	410.3	401.8	393.9	387.6
10°	501.9	488.2	472.9	456.5	442.5	428.9	417.4	407.4	396.6	387.1	379.3
12.5°	526.6	506.4	485.3	465.4	448.8	429.8	415.9	403.2	390.9	379.6	370.8
15°	555.8	530.1	505.2	477.8	452.5	428.9	412.4	396.3	382.1	370.5	359.2
17.5°	582.5	553.4	520.6	487.2	456.7	428.6	405.6	387.4	369.6	355.4	344.2
20°	597.5	564.5	527.4	492.7	458.9	427.7	402.3	380.7	361.4	346.4	333.8
22.5°	610.5	571.8	533.4	496.3	458.7	425.1	396.4	374.1	353.3	338.5	325.1
25°	624.1	577.6	539.2	495.7	453.7	418.8	386.8	361.4	340.6	323.3	309.5
27.5°	635.6	577.3	531.6	484.7	445.7	410.8	376.5	349.4	327.3	308.5	294.5
30°	643.3	578.1	523.7	477.4	438.1	402.0	368.7	341.4	318.1	299.1	285.9
32.5°	648.1	577.6	516.5	467.1	425.9	393.9	360.2	331.9	308.0	289.3	276.6
35°	650.9	574.0	504.0	445.9	406.2	375.1	346.8	317.5	292.5	275.0	260.5
37.5°	645.2	566.6	489.7	425.4	381.9	351.4	327.5	302.6	278.6	259.4	246.9
40°	636.5	561.8	478.4	411.0	365.2	335.8	315.6	291.0	267.3	249.1	237.5
42.5°	619.6	552.1	466.1	394.9	347.9	318.5	299.8	279.3	256.9	239.8	228.2
45°	578.5	530.7	447.5	370.9	322.4	291.9	275.4	260.5	240.3	223.7	213.6
47.5°	521.4	498.7	420.7	345.5	295.6	266.3	249.2	237.3	222.5	209.0	199.4
50°	481.8	472.3	402.6	328.1	277.8	249.1	232.6	221.9	211.2	197.8	189.0
52.5°	436.1	441.9	381.4	310.2	259.7	231.4	216.0	207.4	197.8	186.7	179.0
55°	371.7	392.7	344.8	280.0	232.6	205.8	191.1	183.6	177.9	169.7	163.1
57.5°	311.4	338.2	305.2	248.9	206.1	183.0	168.9	160.7	157.0	152.7	147.5
60°	275.6	302.0	277.0	228.1	188.4	166.3	153.9	146.8	143.2	140.2	135.8
62.5°	243.7	270.4	249.4	206.9	170.8	150.4	139.6	132.7	129.9	128.4	124.6
65°	199.8	222.8	208.8	173.9	145.9	127.8	118.0	113.1	110.6	109.9	107.5
67.5°	162.6	180.1	170.0	144.2	122.2	106.6	98.2	94.1	92.1	91.9	90.1
70°	138.2	154.6	146.8	123.6	104.5	92.3	85.1	81.5	80.2	80.1	79.0
72.5°	119.2	130.7	124.5	105.1	90.4	79.3	74.0	70.2	68.9	69.1	68.4
75°	88.3	96.9	93.2	79.8	68.0	60.8	56.4	54.0	52.8	53.4	52.5
77.5°	63.5	69.0	65.7	56.4	49.1	43.9	40.6	39.2	38.1	38.1	37.7
80°	48.0	51.1	49.3	43.7	37.7	33.3	30.7	29.7	29.1	28.8	28.7
82.5°	34.2	36.9	34.7	30.9	26.8	24.1	22.6	21.4	20.9	21.0	20.8
85°	17.2	18.3	17.5	15.1	13.4	12.2	11.5	10.8	10.4	10.6	10.2
87.5°	9.1	8.8	7.7	6.7	5.9	5.1	4.7	4.0	4.0	4.5	4.7
90°	15.8	13.3	10.8	8.5	6.6	4.7	2.8	0.9	2.8	4.7	6.6
92.5°	18.3	16.5	14.6	13.9	14.5	15.0	15.6	16.1	15.6	15.0	14.5
95°	22.6	20.5	18.3	21.3	29.1	37.0	44.9	52.8	44.9	37.0	29.1
97.5°	55.5	69.4	83.2	91.9	95.4	98.9	102.5	106.0	102.5	98.9	95.4
100°	88.5	118.5	148.4	161.5	157.6	153.9	150.0	146.1	150.0	153.9	157.6
102.5°	122.4	155.2	187.9	202.9	200.1	197.3	194.6	191.8	194.6	197.3	200.1
105°	223.9	241.3	258.6	266.1	264.1	261.9	259.8	257.7	259.8	261.9	264.1
107.5°	341.6	339.0	336.2	334.0	332.3	330.6	328.9	327.3	328.9	330.6	332.3
110°	385.8	383.7	381.6	379.7	378.2	376.7	375.1	373.6	375.1	376.7	378.2



TEST NUMBER: P332102-935

CATALOG NUMBER: S123DIW-S340D1030U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	429.4	427.2	425.2	423.4	422.1	420.6	419.2	417.8	419.2	420.6	422.1
115°	492.9	491.2	489.5	488.0	486.9	485.7	484.6	483.5	484.6	485.7	486.9
117.5°	555.5	554.7	553.7	552.6	551.1	549.7	548.3	546.9	548.3	549.7	551.1
120°	595.6	595.0	594.4	593.2	591.5	589.8	588.1	586.3	588.1	589.8	591.5
122.5°	634.6	634.0	633.2	632.1	630.7	629.3	627.8	626.5	627.8	629.3	630.7
125°	690.3	689.5	688.8	687.6	686.0	684.5	683.0	681.5	683.0	684.5	686.0
127.5°	744.0	743.0	742.1	740.9	739.3	737.8	736.2	734.7	736.2	737.8	739.3
130°	776.8	776.0	775.2	774.1	772.6	771.0	769.5	767.9	769.5	771.0	772.6
132.5°	808.2	807.6	807.0	805.9	804.3	802.8	801.3	799.8	801.3	802.8	804.3
135°	855.5	854.7	853.9	853.0	851.8	850.7	849.5	848.3	849.5	850.7	851.8
137.5°	897.5	897.1	896.6	895.7	894.2	892.8	891.3	889.8	891.3	892.8	894.2
140°	924.2	923.6	923.0	922.1	921.0	919.9	918.7	917.6	918.7	919.9	921.0
142.5°	949.8	949.2	948.6	947.8	946.6	945.5	944.3	943.1	944.3	945.5	946.6
145°	985.9	985.6	985.2	984.3	983.0	981.6	980.2	979.0	980.2	981.6	983.0
147.5°	1017.6	1017.2	1016.8	1016.2	1015.3	1014.4	1013.6	1012.7	1013.6	1014.4	1015.3
150°	1037.0	1036.6	1036.2	1035.7	1035.2	1034.6	1034.0	1033.5	1034.0	1034.6	1035.2
152.5°	1053.9	1053.7	1053.4	1053.2	1052.9	1052.7	1052.4	1052.1	1052.4	1052.7	1052.9
155°	1077.1	1076.9	1076.8	1076.9	1077.3	1077.6	1078.0	1078.4	1078.0	1077.6	1077.3
157.5°	1098.1	1098.4	1098.5	1098.6	1098.7	1098.7	1098.8	1098.8	1098.8	1098.7	1098.7
160°	1109.9	1110.1	1110.3	1110.5	1110.7	1110.9	1111.0	1111.3	1111.0	1110.9	1110.7
162.5°	1120.3	1120.5	1120.7	1121.0	1121.5	1122.1	1122.5	1123.0	1122.5	1122.1	1121.5
165°	1134.1	1134.3	1134.5	1134.9	1135.5	1136.1	1136.6	1137.2	1136.6	1136.1	1135.5
167.5°	1144.8	1144.8	1144.8	1145.2	1146.0	1146.8	1147.5	1148.2	1147.5	1146.8	1146.0
170°	1151.1	1151.1	1151.1	1151.4	1152.2	1153.0	1153.7	1154.5	1153.7	1153.0	1152.2
172.5°	1154.9	1154.7	1154.6	1154.9	1155.9	1156.8	1157.7	1158.6	1157.7	1156.8	1155.9
175°	1160.2	1159.9	1159.8	1160.2	1161.1	1162.1	1163.0	1164.0	1163.0	1162.1	1161.1
177.5°	1162.4	1162.2	1162.0	1162.4	1163.1	1163.9	1164.6	1165.4	1164.6	1163.9	1163.1
180°	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0



TEST NUMBER: P332102-935

CATALOG NUMBER: S123DIW-S340D1030U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0
2.5°	407.1	406.0	404.4	402.0	400.0	397.0	397.0	397.4	397.4	397.4	397.0
5°	394.8	391.8	388.1	383.9	379.5	375.1	374.3	372.6	371.5	370.7	369.7
7.5°	381.7	376.3	371.1	365.2	359.8	355.4	352.3	349.7	348.1	346.3	345.0
10°	372.9	366.3	360.1	353.9	347.0	341.6	338.2	335.8	334.0	332.3	331.6
12.5°	362.5	354.9	348.0	342.1	334.7	329.1	325.8	324.7	322.6	319.2	317.5
15°	347.2	340.2	332.0	323.0	319.3	312.5	308.7	306.9	305.7	303.1	302.3
17.5°	334.2	325.0	315.7	309.0	302.3	296.8	294.6	292.4	290.8	288.7	288.0
20°	323.7	315.6	307.1	299.9	292.8	286.8	285.0	283.4	281.8	280.9	280.0
22.5°	313.1	305.0	297.9	291.2	283.7	279.7	277.8	276.0	274.9	274.2	273.5
25°	298.3	291.0	283.2	277.2	271.2	268.5	267.3	266.4	265.5	264.6	264.3
27.5°	285.0	277.1	270.8	265.1	260.8	258.6	257.4	257.0	257.2	257.5	257.8
30°	275.0	267.8	262.6	257.8	253.7	251.8	251.5	251.5	252.4	252.5	253.0
32.5°	265.9	259.9	254.7	250.0	247.0	245.6	246.4	246.4	247.0	247.5	248.3
35°	252.5	247.3	243.3	239.3	236.7	237.3	237.7	238.1	239.1	240.3	241.1
37.5°	239.8	235.3	231.1	228.0	226.8	227.8	228.9	229.6	230.8	231.8	232.6
40°	230.7	227.2	223.3	220.4	220.8	221.4	222.2	223.3	224.3	224.9	225.7
42.5°	222.1	218.6	215.5	213.2	213.8	214.6	215.0	215.5	216.7	217.8	218.3
45°	209.2	206.4	203.6	202.2	202.6	203.0	203.4	204.0	205.0	205.8	206.0
47.5°	194.7	192.7	190.8	189.4	190.1	189.9	190.5	191.7	192.0	192.5	193.6
50°	185.4	183.6	181.3	180.9	180.9	180.9	181.2	182.7	182.7	183.6	184.3
52.5°	175.0	173.9	172.5	171.8	171.4	171.4	172.3	173.1	173.4	174.5	175.4
55°	159.9	158.7	157.5	156.9	156.4	156.9	158.4	158.9	159.9	160.5	161.1
57.5°	144.0	143.1	142.2	141.8	141.7	142.2	143.1	144.3	144.6	146.5	147.3
60°	133.6	132.2	131.4	131.4	131.0	132.8	132.4	134.4	134.8	136.0	137.4
62.5°	122.9	121.0	120.6	120.6	121.2	121.7	122.3	123.1	124.2	125.7	126.8
65°	105.5	104.5	105.9	105.7	105.3	106.5	106.5	107.5	108.7	110.1	112.4
67.5°	89.1	88.6	88.7	88.7	89.3	90.0	90.6	91.4	92.9	94.4	95.8
70°	78.0	78.6	77.7	78.4	79.0	79.2	79.6	80.8	82.4	83.4	85.1
72.5°	67.2	67.2	67.3	67.7	68.3	68.6	69.1	70.4	72.2	73.0	74.3
75°	51.7	51.6	52.2	52.2	53.1	53.6	54.0	54.6	56.1	57.3	58.4
77.5°	37.8	38.1	37.9	38.6	38.3	38.4	39.6	40.2	40.4	42.8	43.3
80°	28.5	28.8	29.1	29.3	29.4	29.1	30.5	31.1	31.1	32.5	33.5
82.5°	20.5	20.7	21.2	21.4	21.4	21.9	22.0	22.4	22.9	23.5	24.8
85°	10.2	10.8	11.0	10.8	11.0	10.6	11.2	11.5	11.6	11.6	11.6
87.5°	4.9	5.5	5.9	6.5	6.9	7.5	7.7	7.5	7.7	8.3	7.7
90°	8.5	10.8	13.3	15.8	18.3	20.8	21.5	22.3	23.1	23.8	24.4
92.5°	13.9	14.6	16.5	18.3	20.2	22.1	23.3	24.6	25.8	27.0	27.8
95°	21.3	18.3	20.5	22.6	24.7	26.8	28.2	29.5	30.8	32.2	32.9
97.5°	91.9	83.2	69.4	55.5	41.7	27.8	29.4	30.9	32.5	34.0	34.9
100°	161.5	148.4	118.5	88.5	58.5	28.5	30.0	31.6	33.1	34.7	35.6
102.5°	202.9	187.9	155.2	122.4	89.6	56.9	52.2	47.4	42.6	37.8	35.6
105°	266.1	258.6	241.3	223.9	206.7	189.4	155.4	121.4	87.3	53.3	36.5
107.5°	334.0	336.2	339.0	341.6	344.4	347.2	322.2	297.2	272.3	247.4	222.1
110°	379.7	381.6	383.7	385.8	387.9	390.0	383.7	377.4	371.0	364.6	347.8



TEST NUMBER: P332102-935

CATALOG NUMBER: S123DIW-S340D1030U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	423.4	425.2	427.2	429.4	431.5	433.6	433.7	433.9	433.9	434.0	431.2
115°	488.0	489.5	491.2	492.9	494.6	496.4	498.3	500.2	502.1	504.1	505.4
117.5°	552.6	553.7	554.7	555.5	556.4	557.2	558.8	560.3	561.9	563.4	564.3
120°	593.2	594.4	595.0	595.6	596.2	596.7	598.2	599.8	601.3	602.9	603.6
122.5°	632.1	633.2	634.0	634.6	635.4	636.1	637.2	638.3	639.4	640.4	641.1
125°	687.6	688.8	689.5	690.3	691.0	691.8	692.2	692.6	693.0	693.4	693.8
127.5°	740.9	742.1	743.0	744.0	744.9	745.8	746.4	747.0	747.6	748.3	748.4
130°	774.1	775.2	776.0	776.8	777.6	778.3	779.1	779.9	780.6	781.4	781.6
132.5°	805.9	807.0	807.6	808.2	808.8	809.4	810.2	811.0	811.8	812.5	812.6
135°	853.0	853.9	854.7	855.5	856.3	857.0	857.6	858.2	858.8	859.3	859.3
137.5°	895.7	896.6	897.1	897.5	897.9	898.4	899.2	900.2	901.1	902.1	902.3
140°	922.1	923.0	923.6	924.2	924.7	925.3	926.1	926.9	927.6	928.4	928.6
142.5°	947.8	948.6	949.2	949.8	950.4	950.9	951.6	952.2	952.8	953.4	953.4
145°	984.3	985.2	985.6	985.9	986.4	986.7	987.1	987.5	987.9	988.3	988.4
147.5°	1016.2	1016.8	1017.2	1017.6	1018.0	1018.4	1018.7	1019.2	1019.5	1019.9	1019.7
150°	1035.7	1036.2	1036.6	1037.0	1037.3	1037.8	1038.1	1038.5	1038.9	1039.3	1039.2
152.5°	1053.2	1053.4	1053.7	1053.9	1054.1	1054.4	1055.1	1055.8	1056.4	1057.1	1057.0
155°	1076.9	1076.8	1076.9	1077.1	1077.4	1077.5	1078.5	1079.4	1080.4	1081.4	1081.2
157.5°	1098.6	1098.5	1098.4	1098.1	1097.9	1097.8	1098.9	1100.1	1101.2	1102.3	1102.2
160°	1110.5	1110.3	1110.1	1109.9	1109.7	1109.6	1110.7	1111.8	1113.0	1114.1	1114.0
162.5°	1121.0	1120.7	1120.5	1120.3	1120.1	1119.9	1121.2	1122.5	1123.9	1125.2	1125.2
165°	1134.9	1134.5	1134.3	1134.1	1133.9	1133.8	1135.3	1136.8	1138.3	1139.9	1140.0
167.5°	1145.2	1144.8	1144.8	1144.8	1144.8	1144.8	1146.3	1147.9	1149.4	1151.0	1151.0
170°	1151.4	1151.1	1151.1	1151.1	1151.1	1151.1	1152.5	1154.1	1155.6	1157.2	1157.2
172.5°	1154.9	1154.6	1154.7	1154.9	1155.0	1155.2	1156.8	1158.3	1159.8	1161.3	1161.2
175°	1160.2	1159.8	1159.9	1160.2	1160.4	1160.5	1161.9	1163.2	1164.6	1166.0	1165.9
177.5°	1162.4	1162.0	1162.2	1162.4	1162.4	1162.6	1163.9	1165.1	1166.3	1167.5	1167.4
180°	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0



TEST NUMBER: P332102-935

CATALOG NUMBER: S123DIW-S340D1030U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0
2.5°	395.9	395.7	396.8	396.1	396.8	395.7	395.9	397.0	397.4	397.4	397.4
5°	368.5	369.1	367.0	367.0	367.0	369.1	368.5	369.7	370.7	371.5	372.6
7.5°	344.1	343.2	343.3	342.2	343.3	343.2	344.1	345.0	346.3	348.1	349.7
10°	329.2	328.0	327.5	327.8	327.5	328.0	329.2	331.6	332.3	334.0	335.8
12.5°	316.8	316.6	313.9	313.9	313.9	316.6	316.8	317.5	319.2	322.6	324.7
15°	302.3	298.5	298.1	299.3	298.1	298.5	302.3	302.3	303.1	305.7	306.9
17.5°	287.7	285.7	285.9	285.2	285.9	285.7	287.7	288.0	288.7	290.8	292.4
20°	280.0	278.8	278.6	277.2	278.6	278.8	280.0	280.0	280.9	281.8	283.4
22.5°	272.9	272.6	272.7	271.1	272.7	272.6	272.9	273.5	274.2	274.9	276.0
25°	264.2	265.2	264.3	264.3	264.3	265.2	264.2	264.3	264.6	265.5	266.4
27.5°	258.2	258.2	257.8	257.8	257.8	258.2	258.2	257.8	257.5	257.2	257.0
30°	253.7	253.6	253.9	253.9	253.9	253.6	253.7	253.0	252.5	252.4	251.5
32.5°	249.3	249.5	249.6	249.8	249.6	249.5	249.3	248.3	247.5	247.0	246.4
35°	242.3	242.5	243.1	242.7	243.1	242.5	242.3	241.1	240.3	239.1	238.1
37.5°	232.9	233.8	233.7	233.9	233.7	233.8	232.9	232.6	231.8	230.8	229.6
40°	225.8	226.4	226.3	226.3	226.3	226.4	225.8	225.7	224.9	224.3	223.3
42.5°	218.6	219.0	218.5	218.3	218.5	219.0	218.6	218.3	217.8	216.7	215.5
45°	206.8	206.4	207.0	206.2	207.0	206.4	206.8	206.0	205.8	205.0	204.0
47.5°	193.6	194.0	194.2	194.8	194.2	194.0	193.6	193.6	192.5	192.0	191.7
50°	184.8	186.0	186.0	185.7	186.0	186.0	184.8	184.3	183.6	182.7	182.7
52.5°	176.1	176.6	177.5	177.4	177.5	176.6	176.1	175.4	174.5	173.4	173.1
55°	162.6	163.1	163.5	163.7	163.5	163.1	162.6	161.1	160.5	159.9	158.9
57.5°	148.8	148.6	149.6	149.9	149.6	148.6	148.8	147.3	146.5	144.6	144.3
60°	139.0	139.0	140.6	141.2	140.6	139.0	139.0	137.4	136.0	134.8	134.4
62.5°	128.5	129.2	130.8	130.0	130.8	129.2	128.5	126.8	125.7	124.2	123.1
65°	113.3	114.9	114.8	115.5	114.8	114.9	113.3	112.4	110.1	108.7	107.5
67.5°	97.4	98.4	99.9	100.0	99.9	98.4	97.4	95.8	94.4	92.9	91.4
70°	86.6	87.6	88.4	89.0	88.4	87.6	86.6	85.1	83.4	82.4	80.8
72.5°	76.2	76.7	78.7	77.8	78.7	76.7	76.2	74.3	73.0	72.2	70.4
75°	59.8	61.2	62.4	61.8	62.4	61.2	59.8	58.4	57.3	56.1	54.6
77.5°	44.2	45.6	46.1	45.6	46.1	45.6	44.2	43.3	42.8	40.4	40.2
80°	34.9	34.7	35.9	35.7	35.9	34.7	34.9	33.5	32.5	31.1	31.1
82.5°	25.6	25.4	25.9	26.1	25.9	25.4	25.6	24.8	23.5	22.9	22.4
85°	12.4	13.0	12.2	12.1	12.2	13.0	12.4	11.6	11.6	11.6	11.5
87.5°	7.8	7.9	7.8	7.7	7.8	7.9	7.8	7.7	8.3	7.7	7.5
90°	24.8	25.1	25.6	25.9	25.6	25.1	24.8	24.4	23.8	23.1	22.3
92.5°	28.0	28.2	28.5	28.7	28.5	28.2	28.0	27.8	27.0	25.8	24.6
95°	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.9	32.2	30.8	29.5
97.5°	35.0	35.2	35.5	35.6	35.5	35.2	35.0	34.9	34.0	32.5	30.9
100°	35.7	35.9	36.2	36.3	36.2	35.9	35.7	35.6	34.7	33.1	31.6
102.5°	36.0	36.3	36.7	37.0	36.7	36.3	36.0	35.6	37.8	42.6	47.4
105°	36.9	37.3	37.6	38.1	37.6	37.3	36.9	36.5	53.3	87.3	121.4
107.5°	196.4	170.8	145.2	119.5	145.2	170.8	196.4	222.1	247.4	272.3	297.2
110°	320.3	292.7	265.3	237.8	265.3	292.7	320.3	347.8	364.6	371.0	377.4



TEST NUMBER: P332102-935

CATALOG NUMBER: S123DIW-S340D1030U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	425.4	419.7	413.8	408.0	413.8	419.7	425.4	431.2	434.0	433.9	433.9
115°	506.2	507.0	507.7	508.5	507.7	507.0	506.2	505.4	504.1	502.1	500.2
117.5°	564.4	564.6	564.7	564.9	564.7	564.6	564.4	564.3	563.4	561.9	560.3
120°	603.6	603.6	603.6	603.6	603.6	603.6	603.6	603.6	602.9	601.3	599.8
122.5°	641.2	641.4	641.5	641.7	641.5	641.4	641.2	641.1	640.4	639.4	638.3
125°	694.1	694.5	694.9	695.3	694.9	694.5	694.1	693.8	693.4	693.0	692.6
127.5°	748.0	747.6	747.3	746.8	747.3	747.6	748.0	748.4	748.3	747.6	747.0
130°	781.2	780.8	780.4	780.1	780.4	780.8	781.2	781.6	781.4	780.6	779.9
132.5°	812.1	811.6	811.1	810.5	811.1	811.6	812.1	812.6	812.5	811.8	811.0
135°	858.8	858.2	857.6	857.0	857.6	858.2	858.8	859.3	859.3	858.8	858.2
137.5°	901.9	901.6	901.1	900.8	901.1	901.6	901.9	902.3	902.1	901.1	900.2
140°	928.2	927.8	927.5	927.0	927.5	927.8	928.2	928.6	928.4	927.6	926.9
142.5°	952.9	952.4	951.8	951.2	951.8	952.4	952.9	953.4	953.4	952.8	952.2
145°	988.4	988.4	988.4	988.4	988.4	988.4	988.4	988.4	988.3	987.9	987.5
147.5°	1018.8	1017.9	1017.0	1016.2	1017.0	1017.9	1018.8	1019.7	1019.9	1019.5	1019.2
150°	1038.6	1038.0	1037.5	1036.9	1037.5	1038.0	1038.6	1039.2	1039.3	1038.9	1038.5
152.5°	1056.1	1055.2	1054.4	1053.5	1054.4	1055.2	1056.1	1057.0	1057.1	1056.4	1055.8
155°	1080.1	1079.0	1077.8	1076.7	1077.8	1079.0	1080.1	1081.2	1081.4	1080.4	1079.4
157.5°	1100.7	1099.2	1097.7	1096.2	1097.7	1099.2	1100.7	1102.2	1102.3	1101.2	1100.1
160°	1112.7	1111.4	1110.0	1108.6	1110.0	1111.4	1112.7	1114.0	1114.1	1113.0	1111.8
162.5°	1124.0	1122.8	1121.6	1120.4	1121.6	1122.8	1124.0	1125.2	1125.2	1123.9	1122.5
165°	1138.7	1137.3	1135.9	1134.6	1135.9	1137.3	1138.7	1140.0	1139.9	1138.3	1136.8
167.5°	1149.4	1147.9	1146.3	1144.8	1146.3	1147.9	1149.4	1151.0	1151.0	1149.4	1147.9
170°	1155.6	1154.1	1152.5	1151.1	1152.5	1154.1	1155.6	1157.2	1157.2	1155.6	1154.1
172.5°	1159.6	1157.9	1156.2	1154.5	1156.2	1157.9	1159.6	1161.2	1161.3	1159.8	1158.3
175°	1164.3	1162.8	1161.2	1159.7	1161.2	1162.8	1164.3	1165.9	1166.0	1164.6	1163.2
177.5°	1165.9	1164.3	1162.8	1161.2	1162.8	1164.3	1165.9	1167.4	1167.5	1166.3	1165.1
180°	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0



TEST NUMBER: P332102-935

CATALOG NUMBER: S123DIW-S340D1030U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0
2.5°	397.0	397.0	400.0	402.0	404.4	406.0	407.1	408.2	410.2	412.7	415.6
5°	374.3	375.1	379.5	383.9	388.1	391.8	394.8	398.4	402.8	408.2	414.2
7.5°	352.3	355.4	359.8	365.2	371.1	376.3	381.7	387.6	393.9	401.8	410.3
10°	338.2	341.6	347.0	353.9	360.1	366.3	372.9	379.3	387.1	396.6	407.4
12.5°	325.8	329.1	334.7	342.1	348.0	354.9	362.5	370.8	379.6	390.9	403.2
15°	308.7	312.5	319.3	323.0	332.0	340.2	347.2	359.2	370.5	382.1	396.3
17.5°	294.6	296.8	302.3	309.0	315.7	325.0	334.2	344.2	355.4	369.6	387.4
20°	285.0	286.8	292.8	299.9	307.1	315.6	323.7	333.8	346.4	361.4	380.7
22.5°	277.8	279.7	283.7	291.2	297.9	305.0	313.1	325.1	338.5	353.3	374.1
25°	267.3	268.5	271.2	277.2	283.2	291.0	298.3	309.5	323.3	340.6	361.4
27.5°	257.4	258.6	260.8	265.1	270.8	277.1	285.0	294.5	308.5	327.3	349.4
30°	251.5	251.8	253.7	257.8	262.6	267.8	275.0	285.9	299.1	318.1	341.4
32.5°	246.4	245.6	247.0	250.0	254.7	259.9	265.9	276.6	289.3	308.0	331.9
35°	237.7	237.3	236.7	239.3	243.3	247.3	252.5	260.5	275.0	292.5	317.5
37.5°	228.9	227.8	226.8	228.0	231.1	235.3	239.8	246.9	259.4	278.6	302.6
40°	222.2	221.4	220.8	220.4	223.3	227.2	230.7	237.5	249.1	267.3	291.0
42.5°	215.0	214.6	213.8	213.2	215.5	218.6	222.1	228.2	239.8	256.9	279.3
45°	203.4	203.0	202.6	202.2	203.6	206.4	209.2	213.6	223.7	240.3	260.5
47.5°	190.5	189.9	190.1	189.4	190.8	192.7	194.7	199.4	209.0	222.5	237.3
50°	181.2	180.9	180.9	180.9	181.3	183.6	185.4	189.0	197.8	211.2	221.9
52.5°	172.3	171.4	171.4	171.8	172.5	173.9	175.0	179.0	186.7	197.8	207.4
55°	158.4	156.9	156.4	156.9	157.5	158.7	159.9	163.1	169.7	177.9	183.6
57.5°	143.1	142.2	141.7	141.8	142.2	143.1	144.0	147.5	152.7	157.0	160.7
60°	132.4	132.8	131.0	131.4	131.4	132.2	133.6	135.8	140.2	143.2	146.8
62.5°	122.3	121.7	121.2	120.6	120.6	121.0	122.9	124.6	128.4	129.9	132.7
65°	106.5	106.5	105.3	105.7	105.9	104.5	105.5	107.5	109.9	110.6	113.1
67.5°	90.6	90.0	89.3	88.7	88.7	88.6	89.1	90.1	91.9	92.1	94.1
70°	79.6	79.2	79.0	78.4	77.7	78.6	78.0	79.0	80.1	80.2	81.5
72.5°	69.1	68.6	68.3	67.7	67.3	67.2	67.2	68.4	69.1	68.9	70.2
75°	54.0	53.6	53.1	52.2	52.2	51.6	51.7	52.5	53.4	52.8	54.0
77.5°	39.6	38.4	38.3	38.6	37.9	38.1	37.8	37.7	38.1	38.1	39.2
80°	30.5	29.1	29.4	29.3	29.1	28.8	28.5	28.7	28.8	29.1	29.7
82.5°	22.0	21.9	21.4	21.4	21.2	20.7	20.5	20.8	21.0	20.9	21.4
85°	11.2	10.6	11.0	10.8	11.0	10.8	10.2	10.2	10.6	10.4	10.8
87.5°	7.7	7.5	6.9	6.5	5.9	5.5	4.9	4.7	4.5	4.0	4.0
90°	21.5	20.8	18.3	15.8	13.3	10.8	8.5	6.6	4.7	2.8	0.9
92.5°	23.3	22.1	20.2	18.3	16.5	14.6	13.9	14.5	15.0	15.6	16.1
95°	28.2	26.8	24.7	22.6	20.5	18.3	21.3	29.1	37.0	44.9	52.8
97.5°	29.4	27.8	41.7	55.5	69.4	83.2	91.9	95.4	98.9	102.5	106.0
100°	30.0	28.5	58.5	88.5	118.5	148.4	161.5	157.6	153.9	150.0	146.1
102.5°	52.2	56.9	89.6	122.4	155.2	187.9	202.9	200.1	197.3	194.6	191.8
105°	155.4	189.4	206.7	223.9	241.3	258.6	266.1	264.1	261.9	259.8	257.7
107.5°	322.2	347.2	344.4	341.6	339.0	336.2	334.0	332.3	330.6	328.9	327.3
110°	383.7	390.0	387.9	385.8	383.7	381.6	379.7	378.2	376.7	375.1	373.6



TEST NUMBER: P332102-935

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	433.7	433.6	431.5	429.4	427.2	425.2	423.4	422.1	420.6	419.2	417.8
115°	498.3	496.4	494.6	492.9	491.2	489.5	488.0	486.9	485.7	484.6	483.5
117.5°	558.8	557.2	556.4	555.5	554.7	553.7	552.6	551.1	549.7	548.3	546.9
120°	598.2	596.7	596.2	595.6	595.0	594.4	593.2	591.5	589.8	588.1	586.3
122.5°	637.2	636.1	635.4	634.6	634.0	633.2	632.1	630.7	629.3	627.8	626.5
125°	692.2	691.8	691.0	690.3	689.5	688.8	687.6	686.0	684.5	683.0	681.5
127.5°	746.4	745.8	744.9	744.0	743.0	742.1	740.9	739.3	737.8	736.2	734.7
130°	779.1	778.3	777.6	776.8	776.0	775.2	774.1	772.6	771.0	769.5	767.9
132.5°	810.2	809.4	808.8	808.2	807.6	807.0	805.9	804.3	802.8	801.3	799.8
135°	857.6	857.0	856.3	855.5	854.7	853.9	853.0	851.8	850.7	849.5	848.3
137.5°	899.2	898.4	897.9	897.5	897.1	896.6	895.7	894.2	892.8	891.3	889.8
140°	926.1	925.3	924.7	924.2	923.6	923.0	922.1	921.0	919.9	918.7	917.6
142.5°	951.6	950.9	950.4	949.8	949.2	948.6	947.8	946.6	945.5	944.3	943.1
145°	987.1	986.7	986.4	985.9	985.6	985.2	984.3	983.0	981.6	980.2	979.0
147.5°	1018.7	1018.4	1018.0	1017.6	1017.2	1016.8	1016.2	1015.3	1014.4	1013.6	1012.7
150°	1038.1	1037.8	1037.3	1037.0	1036.6	1036.2	1035.7	1035.2	1034.6	1034.0	1033.5
152.5°	1055.1	1054.4	1054.1	1053.9	1053.7	1053.4	1053.2	1052.9	1052.7	1052.4	1052.1
155°	1078.5	1077.5	1077.4	1077.1	1076.9	1076.8	1076.9	1077.3	1077.6	1078.0	1078.4
157.5°	1098.9	1097.8	1097.9	1098.1	1098.4	1098.5	1098.6	1098.7	1098.7	1098.8	1098.8
160°	1110.7	1109.6	1109.7	1109.9	1110.1	1110.3	1110.5	1110.7	1110.9	1111.0	1111.3
162.5°	1121.2	1119.9	1120.1	1120.3	1120.5	1120.7	1121.0	1121.5	1122.1	1122.5	1123.0
165°	1135.3	1133.8	1133.9	1134.1	1134.3	1134.5	1134.9	1135.5	1136.1	1136.6	1137.2
167.5°	1146.3	1144.8	1144.8	1144.8	1144.8	1144.8	1145.2	1146.0	1146.8	1147.5	1148.2
170°	1152.5	1151.1	1151.1	1151.1	1151.1	1151.1	1151.4	1152.2	1153.0	1153.7	1154.5
172.5°	1156.8	1155.2	1155.0	1154.9	1154.7	1154.6	1154.9	1155.9	1156.8	1157.7	1158.6
175°	1161.9	1160.5	1160.4	1160.2	1159.9	1159.8	1160.2	1161.1	1162.1	1163.0	1164.0
177.5°	1163.9	1162.6	1162.4	1162.4	1162.2	1162.0	1162.4	1163.1	1163.9	1164.6	1165.4
180°	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0



TEST NUMBER: P332102-935

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0	414.0
2.5°	416.6	417.4	420.1	422.1	424.3	425.6	426.8	427.8	429.1	429.4	434.0
5°	418.4	422.4	429.5	434.6	441.1	448.1	452.9	455.1	461.0	465.7	475.4
7.5°	417.9	426.5	437.0	448.1	459.8	470.7	480.2	491.5	499.4	511.4	523.2
10°	417.4	428.9	442.5	456.5	472.9	488.2	501.9	517.1	529.8	546.4	560.6
12.5°	415.9	429.8	448.8	465.4	485.3	506.4	526.6	546.1	557.3	585.0	598.1
15°	412.4	428.9	452.5	477.8	505.2	530.1	555.8	576.3	609.3	633.6	649.1
17.5°	405.6	428.6	456.7	487.2	520.6	553.4	582.5	613.5	648.6	678.0	709.3
20°	402.3	427.7	458.9	492.7	527.4	564.5	597.5	634.8	673.1	702.1	742.2
22.5°	396.4	425.1	458.7	496.3	533.4	571.8	610.5	648.2	692.4	732.2	770.4
25°	386.8	418.8	453.7	495.7	539.2	577.6	624.1	674.0	720.1	771.3	809.3
27.5°	376.5	410.8	445.7	484.7	531.6	577.3	635.6	692.0	748.4	792.6	820.8
30°	368.7	402.0	438.1	477.4	523.7	578.1	643.3	704.8	759.8	797.7	813.6
32.5°	360.2	393.9	425.9	467.1	516.5	577.6	648.1	712.4	760.4	785.7	782.6
35°	346.8	375.1	406.2	445.9	504.0	574.0	650.9	713.1	742.5	737.1	696.2
37.5°	327.5	351.4	381.9	425.4	489.7	566.6	645.2	691.9	690.0	645.9	586.6
40°	315.6	335.8	365.2	411.0	478.4	561.8	636.5	666.8	641.1	579.5	508.5
42.5°	299.8	318.5	347.9	394.9	466.1	552.1	619.6	628.4	578.2	507.3	442.2
45°	275.4	291.9	322.4	370.9	447.5	530.7	578.5	557.0	489.4	416.2	366.7
47.5°	249.2	266.3	295.6	345.5	420.7	498.7	521.4	475.8	406.4	347.0	301.5
50°	232.6	249.1	277.8	328.1	402.6	472.3	481.8	422.8	359.0	306.9	269.6
52.5°	216.0	231.4	259.7	310.2	381.4	441.9	436.1	376.0	317.4	272.9	243.6
55°	191.1	205.8	232.6	280.0	344.8	392.7	371.7	314.4	265.8	231.3	209.0
57.5°	168.9	183.0	206.1	248.9	305.2	338.2	311.4	263.0	224.5	197.9	181.3
60°	153.9	166.3	188.4	228.1	277.0	302.0	275.6	232.9	200.4	179.1	164.3
62.5°	139.6	150.4	170.8	206.9	249.4	270.4	243.7	207.5	179.9	161.0	148.4
65°	118.0	127.8	145.9	173.9	208.8	222.8	199.8	170.5	149.0	135.0	126.6
67.5°	98.2	106.6	122.2	144.2	170.0	180.1	162.6	139.9	123.7	112.4	105.8
70°	85.1	92.3	104.5	123.6	146.8	154.6	138.2	119.5	107.7	98.7	92.5
72.5°	74.0	79.3	90.4	105.1	124.5	130.7	119.2	102.9	91.9	85.1	80.1
75°	56.4	60.8	68.0	79.8	93.2	96.9	88.3	78.0	70.6	65.8	62.0
77.5°	40.6	43.9	49.1	56.4	65.7	69.0	63.5	56.7	51.2	48.0	45.9
80°	30.7	33.3	37.7	43.7	49.3	51.1	48.0	42.7	38.9	37.1	35.3
82.5°	22.6	24.1	26.8	30.9	34.7	36.9	34.2	31.0	28.9	27.3	26.6
85°	11.5	12.2	13.4	15.1	17.5	18.3	17.2	16.4	15.2	14.2	14.2
87.5°	4.7	5.1	5.9	6.7	7.7	8.8	9.1	9.3	9.6	9.6	9.6
90°	2.8	4.7	6.6	8.5	10.8	13.3	15.8	18.3	20.8	21.5	22.3
92.5°	15.6	15.0	14.5	13.9	14.6	16.5	18.3	20.2	22.1	23.3	24.6
95°	44.9	37.0	29.1	21.3	18.3	20.5	22.6	24.7	26.8	28.2	29.5
97.5°	102.5	98.9	95.4	91.9	83.2	69.4	55.5	41.7	27.8	29.4	30.9
100°	150.0	153.9	157.6	161.5	148.4	118.5	88.5	58.5	28.5	30.0	31.6
102.5°	194.6	197.3	200.1	202.9	187.9	155.2	122.4	89.6	56.9	52.2	47.4
105°	259.8	261.9	264.1	266.1	258.6	241.3	223.9	206.7	189.4	155.4	121.4
107.5°	328.9	330.6	332.3	334.0	336.2	339.0	341.6	344.4	347.2	322.2	297.2
110°	375.1	376.7	378.2	379.7	381.6	383.7	385.8	387.9	390.0	383.7	377.4



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	419.2	420.6	422.1	423.4	425.2	427.2	429.4	431.5	433.6	433.7	433.9
115°	484.6	485.7	486.9	488.0	489.5	491.2	492.9	494.6	496.4	498.3	500.2
117.5°	548.3	549.7	551.1	552.6	553.7	554.7	555.5	556.4	557.2	558.8	560.3
120°	588.1	589.8	591.5	593.2	594.4	595.0	595.6	596.2	596.7	598.2	599.8
122.5°	627.8	629.3	630.7	632.1	633.2	634.0	634.6	635.4	636.1	637.2	638.3
125°	683.0	684.5	686.0	687.6	688.8	689.5	690.3	691.0	691.8	692.2	692.6
127.5°	736.2	737.8	739.3	740.9	742.1	743.0	744.0	744.9	745.8	746.4	747.0
130°	769.5	771.0	772.6	774.1	775.2	776.0	776.8	777.6	778.3	779.1	779.9
132.5°	801.3	802.8	804.3	805.9	807.0	807.6	808.2	808.8	809.4	810.2	811.0
135°	849.5	850.7	851.8	853.0	853.9	854.7	855.5	856.3	857.0	857.6	858.2
137.5°	891.3	892.8	894.2	895.7	896.6	897.1	897.5	897.9	898.4	899.2	900.2
140°	918.7	919.9	921.0	922.1	923.0	923.6	924.2	924.7	925.3	926.1	926.9
142.5°	944.3	945.5	946.6	947.8	948.6	949.2	949.8	950.4	950.9	951.6	952.2
145°	980.2	981.6	983.0	984.3	985.2	985.6	985.9	986.4	986.7	987.1	987.5
147.5°	1013.6	1014.4	1015.3	1016.2	1016.8	1017.2	1017.6	1018.0	1018.4	1018.7	1019.2
150°	1034.0	1034.6	1035.2	1035.7	1036.2	1036.6	1037.0	1037.3	1037.8	1038.1	1038.5
152.5°	1052.4	1052.7	1052.9	1053.2	1053.4	1053.7	1053.9	1054.1	1054.4	1055.1	1055.8
155°	1078.0	1077.6	1077.3	1076.9	1076.8	1076.9	1077.1	1077.4	1077.5	1078.5	1079.4
157.5°	1098.8	1098.7	1098.7	1098.6	1098.5	1098.4	1098.1	1097.9	1097.8	1098.9	1100.1
160°	1111.0	1110.9	1110.7	1110.5	1110.3	1110.1	1109.9	1109.7	1109.6	1110.7	1111.8
162.5°	1122.5	1122.1	1121.5	1121.0	1120.7	1120.5	1120.3	1120.1	1119.9	1121.2	1122.5
165°	1136.6	1136.1	1135.5	1134.9	1134.5	1134.3	1134.1	1133.9	1133.8	1135.3	1136.8
167.5°	1147.5	1146.8	1146.0	1145.2	1144.8	1144.8	1144.8	1144.8	1144.8	1146.3	1147.9
170°	1153.7	1153.0	1152.2	1151.4	1151.1	1151.1	1151.1	1151.1	1151.1	1152.5	1154.1
172.5°	1157.7	1156.8	1155.9	1154.9	1154.6	1154.7	1154.9	1155.0	1155.2	1156.8	1158.3
175°	1163.0	1162.1	1161.1	1160.2	1159.8	1159.9	1160.2	1160.4	1160.5	1161.9	1163.2
177.5°	1164.6	1163.9	1163.1	1162.4	1162.0	1162.2	1162.4	1162.4	1162.6	1163.9	1165.1
180°	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	414.0	414.0	414.0	414.0	414.0	414.0	414.0
2.5°	435.7	435.8	437.6	438.9	438.2	439.0	439.4
5°	476.0	483.2	487.0	489.8	490.0	490.3	491.8
7.5°	533.1	540.9	546.6	555.2	557.7	560.6	559.8
10°	574.9	586.3	596.2	601.3	607.0	615.2	608.6
12.5°	613.9	634.1	649.1	657.2	662.5	664.1	660.9
15°	678.2	704.6	718.8	718.5	736.5	744.3	732.1
17.5°	737.1	761.6	781.2	791.2	806.2	809.5	808.0
20°	773.3	800.0	815.2	832.4	840.2	847.2	848.4
22.5°	804.3	828.4	844.7	859.0	865.6	868.9	870.9
25°	836.5	855.3	865.1	870.1	871.9	871.5	868.9
27.5°	834.2	835.7	824.8	814.2	804.7	794.0	790.3
30°	812.5	795.7	765.6	748.6	723.5	703.6	711.7
32.5°	755.6	722.0	688.3	651.0	620.2	611.4	602.5
35°	644.9	585.9	551.4	511.3	495.2	479.2	468.1
37.5°	521.7	476.1	435.1	409.0	392.9	382.7	377.3
40°	451.1	410.0	376.3	355.0	342.8	331.4	329.8
42.5°	394.8	356.5	331.2	314.3	302.6	297.6	294.1
45°	323.3	296.7	279.7	267.6	259.8	256.8	252.7
47.5°	273.7	254.9	242.0	233.8	227.9	225.7	225.4
50°	245.9	230.2	220.8	214.4	209.8	209.0	205.8
52.5°	225.1	211.5	204.1	198.5	195.2	193.0	192.0
55°	195.4	186.3	179.7	176.5	173.9	171.7	171.7
57.5°	170.9	163.4	159.0	156.3	155.5	153.9	152.9
60°	155.8	149.5	146.0	143.6	142.0	142.2	140.4
62.5°	141.1	136.9	133.6	131.3	129.3	129.4	129.5
65°	120.1	116.9	114.5	113.7	112.5	111.2	111.5
67.5°	101.9	98.8	96.9	95.6	95.1	94.4	95.6
70°	88.7	86.4	85.1	83.9	83.4	83.6	84.6
72.5°	76.6	75.1	74.1	73.6	72.7	72.8	73.4
75°	60.2	59.0	58.2	57.6	57.3	57.3	57.3
77.5°	44.2	43.9	43.6	42.7	42.7	43.0	43.0
80°	34.9	34.3	34.1	33.7	33.1	32.7	33.7
82.5°	26.1	25.5	25.3	25.2	24.3	24.2	25.1
85°	14.0	13.4	13.6	13.4	13.4	13.3	13.3
87.5°	9.6	9.6	9.6	9.7	9.7	9.6	10.0
90°	23.1	23.8	24.4	24.8	25.1	25.6	25.9
92.5°	25.8	27.0	27.8	28.0	28.2	28.5	28.7
95°	30.8	32.2	32.9	32.9	32.9	32.9	32.9
97.5°	32.5	34.0	34.9	35.0	35.2	35.5	35.6
100°	33.1	34.7	35.6	35.7	35.9	36.2	36.3
102.5°	42.6	37.8	35.6	36.0	36.3	36.7	37.0
105°	87.3	53.3	36.5	36.9	37.3	37.6	38.1
107.5°	272.3	247.4	222.1	196.4	170.8	145.2	119.5
110°	371.0	364.6	347.8	320.3	292.7	265.3	237.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	433.9	434.0	431.2	425.4	419.7	413.8	408.0
115°	502.1	504.1	505.4	506.2	507.0	507.7	508.5
117.5°	561.9	563.4	564.3	564.4	564.6	564.7	564.9
120°	601.3	602.9	603.6	603.6	603.6	603.6	603.6
122.5°	639.4	640.4	641.1	641.2	641.4	641.5	641.7
125°	693.0	693.4	693.8	694.1	694.5	694.9	695.3
127.5°	747.6	748.3	748.4	748.0	747.6	747.3	746.8
130°	780.6	781.4	781.6	781.2	780.8	780.4	780.1
132.5°	811.8	812.5	812.6	812.1	811.6	811.1	810.5
135°	858.8	859.3	859.3	858.8	858.2	857.6	857.0
137.5°	901.1	902.1	902.3	901.9	901.6	901.1	900.8
140°	927.6	928.4	928.6	928.2	927.8	927.5	927.0
142.5°	952.8	953.4	953.4	952.9	952.4	951.8	951.2
145°	987.9	988.3	988.4	988.4	988.4	988.4	988.4
147.5°	1019.5	1019.9	1019.7	1018.8	1017.9	1017.0	1016.2
150°	1038.9	1039.3	1039.2	1038.6	1038.0	1037.5	1036.9
152.5°	1056.4	1057.1	1057.0	1056.1	1055.2	1054.4	1053.5
155°	1080.4	1081.4	1081.2	1080.1	1079.0	1077.8	1076.7
157.5°	1101.2	1102.3	1102.2	1100.7	1099.2	1097.7	1096.2
160°	1113.0	1114.1	1114.0	1112.7	1111.4	1110.0	1108.6
162.5°	1123.9	1125.2	1125.2	1124.0	1122.8	1121.6	1120.4
165°	1138.3	1139.9	1140.0	1138.7	1137.3	1135.9	1134.6
167.5°	1149.4	1151.0	1151.0	1149.4	1147.9	1146.3	1144.8
170°	1155.6	1157.2	1157.2	1155.6	1154.1	1152.5	1151.1
172.5°	1159.8	1161.3	1161.2	1159.6	1157.9	1156.2	1154.5
175°	1164.6	1166.0	1165.9	1164.3	1162.8	1161.2	1159.7
177.5°	1166.3	1167.5	1167.4	1165.9	1164.3	1162.8	1161.2
180°	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0	1164.0

(END OF REPORT)