

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: P332097

Luminaire Tested: **S123DIW-S340D755U835-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332097
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: S123DIW-S340D755U835-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 755 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4072.0 lumens
Efficiency: N/A
Efficacy: 133.9 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

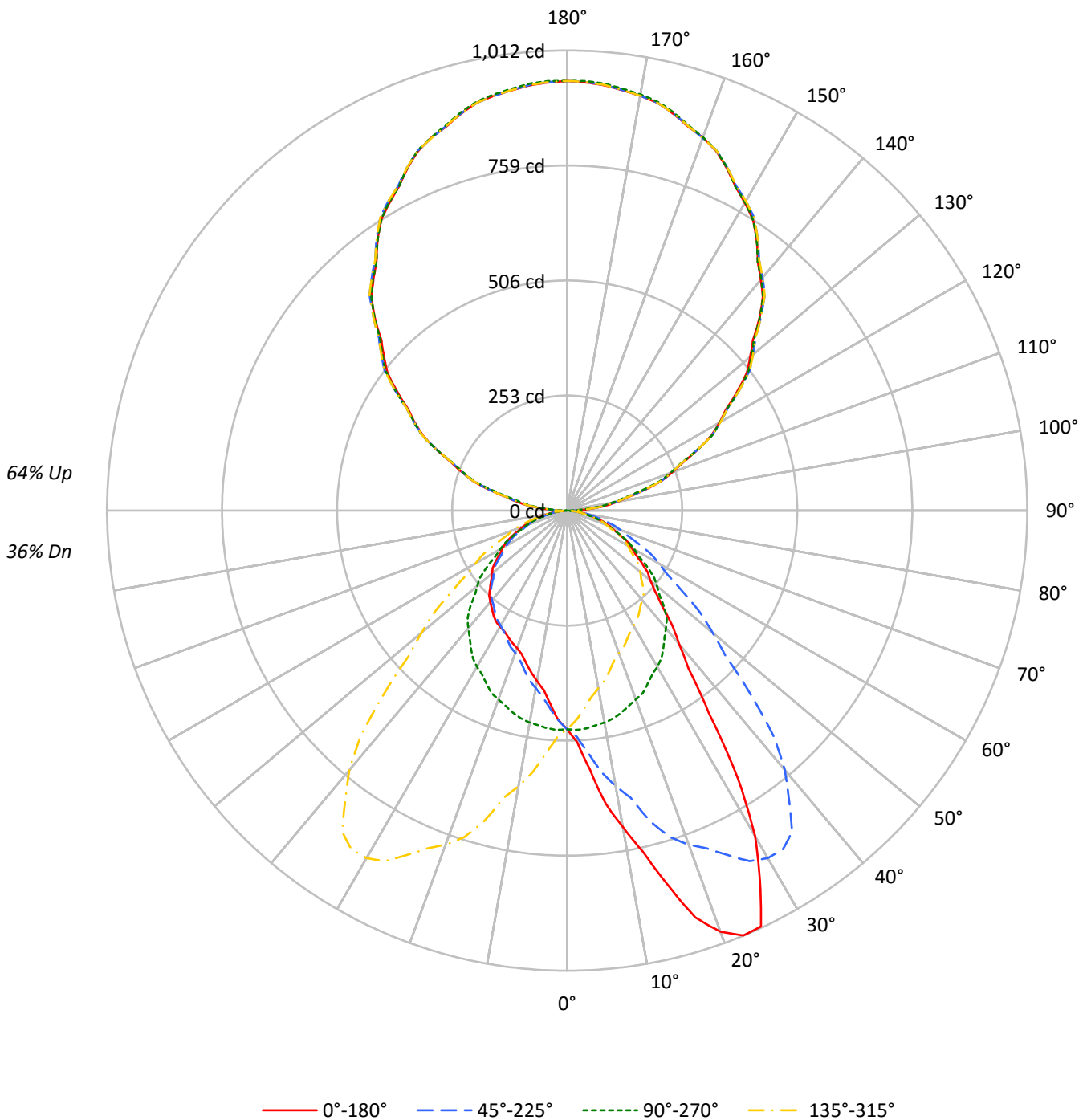
Input Watts (W): 30.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	104	104	104	104	94	94	94	94	75	75	75	59	59	59	43	43	43	36
1	95	91	87	84	86	82	79	76	66	64	62	52	50	49	38	37	37	30
2	86	79	73	68	78	72	67	63	58	55	52	46	43	41	34	32	31	26
3	79	70	63	57	71	63	57	53	51	47	44	40	37	35	30	28	27	22
4	72	62	54	48	65	56	50	45	46	41	37	36	33	30	27	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	32	29	26	24	22	20	17
6	61	49	41	36	55	45	38	33	37	32	28	29	26	23	22	20	18	15
7	56	44	37	31	51	41	34	29	33	28	25	27	23	20	20	18	16	13
8	52	40	33	28	47	37	30	26	30	25	22	24	21	18	19	16	14	12
9	49	37	29	24	44	34	27	23	28	23	19	22	19	16	17	15	13	10
10	45	34	26	22	41	31	25	20	25	21	17	21	17	14	16	13	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5175	5175	5175	5175
5°	6172	5198	4606	5198
10°	7725	5172	4161	5172
15°	9475	5129	3874	5129
20°	11287	5065	3688	5065
25°	11986	4986	3646	4986
30°	10274	4928	3665	4928
35°	7144	4846	3704	4846
40°	5382	4749	3693	4749
45°	4468	4606	3646	4606
50°	4002	4315	3612	4315
55°	3742	4001	3567	4001
60°	3511	3670	3531	3670
65°	3298	3347	3418	3347
70°	3094	2977	3254	2977
75°	2770	2608	2986	2608
80°	2424	2139	2572	2139
85°	1902	1556	1729	1556



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.4	1.2
10°-20°	151.9	3.7
20°-30°	254.9	6.3
30°-40°	288.6	7.1
40°-50°	258.8	6.4
50°-60°	208.9	5.1
60°-70°	145.6	3.6
70°-80°	76.5	1.9
80°-90°	21.5	0.5
90°-100°	61.6	1.5
100°-110°	184.2	4.5
110°-120°	313.4	7.7
120°-130°	412.2	10.1
130°-140°	463.3	11.4
140°-150°	455.4	11.2
150°-160°	383.4	9.4
160°-170°	255.2	6.3
170°-180°	89.4	2.2
0°-30°	454.2	11.2
0°-40°	742.8	18.2
0°-60°	1210.5	29.7
0°-90°	1454.1	35.7
90°-120°	559.2	13.7
90°-150°	1890.0	46.4
90°-180°	2618.0	64.3
0°-180°	4072.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	481	481	481	481	481	
5°	571	481	426	481	571	59
15°	850	460	348	460	850	246
25°	1009	420	307	420	1009	443
35°	544	369	282	369	544	353
45°	294	303	240	303	294	232
55°	199	213	190	213	199	179
65°	130	131	134	131	130	129
75°	67	63	72	63	67	71
85°	15	13	14	13	15	19
90°	22	1	22	1	22	12
95°	58	44	58	44	58	59
105°	177	167	177	167	177	187
115°	316	316	316	316	316	313
125°	456	462	456	462	456	408
135°	598	599	598	599	598	460
145°	727	727	727	727	727	454
155°	831	832	831	832	831	382
165°	903	906	903	906	903	255
175°	939	943	939	943	939	89
180°	945	945	945	945	945	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8
2.5°	510.3	509.9	509.0	509.7	508.2	506.2	506.0	504.1	498.7	498.4	496.9
5°	571.2	569.4	569.1	568.9	565.6	561.2	552.8	552.1	540.9	535.4	528.6
7.5°	650.2	651.1	647.7	644.8	634.8	628.2	619.2	607.7	594.0	580.0	570.8
10°	706.8	714.5	705.0	698.4	692.4	681.0	667.7	651.1	634.6	615.3	600.6
12.5°	767.6	771.3	769.4	763.3	753.9	736.5	713.0	694.7	679.5	647.3	634.3
15°	850.3	864.5	855.4	834.5	834.9	818.4	787.7	753.9	735.9	707.7	669.3
17.5°	938.5	940.2	936.4	918.9	907.3	884.5	856.1	823.8	787.4	753.3	712.5
20°	985.4	984.0	975.9	966.8	946.8	929.1	898.1	862.0	815.4	781.8	737.3
22.5°	1011.5	1009.2	1005.3	997.7	981.1	962.1	934.2	894.8	850.4	804.2	752.8
25°	1009.2	1012.2	1012.7	1010.6	1004.8	993.4	971.5	940.0	895.8	836.3	782.8
27.5°	917.9	922.2	934.6	945.7	958.0	970.6	968.9	953.3	920.5	869.2	803.7
30°	826.6	817.2	840.3	869.4	889.2	924.2	943.7	944.9	926.5	882.5	818.6
32.5°	699.8	710.1	720.3	756.1	799.4	838.6	877.6	908.9	912.5	883.2	827.4
35°	543.7	556.6	575.2	593.8	640.4	680.5	749.0	808.6	856.1	862.4	828.2
37.5°	438.2	444.5	456.3	475.0	505.4	553.0	605.9	681.3	750.2	801.4	803.6
40°	383.0	384.9	398.1	412.3	437.0	476.2	523.9	590.6	673.0	744.6	774.4
42.5°	341.6	345.7	351.4	365.0	384.7	414.1	458.5	513.6	589.2	671.5	729.8
45°	293.5	298.2	301.7	310.8	324.8	344.6	375.5	425.9	483.4	568.4	646.9
47.5°	261.8	262.1	264.7	271.6	281.1	296.0	317.9	350.2	403.0	472.0	552.6
50°	239.0	242.7	243.7	249.0	256.5	267.4	285.6	313.1	356.4	417.0	491.1
52.5°	223.0	224.1	226.7	230.6	237.1	245.6	261.4	282.9	316.9	368.6	436.7
55°	199.4	199.4	202.0	205.0	208.7	216.4	226.9	242.7	268.6	308.7	365.1
57.5°	177.6	178.8	180.6	181.5	184.7	189.8	198.5	210.6	229.8	260.7	305.5
60°	163.1	165.2	164.9	166.8	169.6	173.6	181.0	190.8	208.0	232.7	270.5
62.5°	150.4	150.3	150.2	152.5	155.2	159.0	163.9	172.3	187.0	208.9	241.0
65°	129.5	129.1	130.7	132.1	133.0	135.8	139.5	147.0	156.8	173.1	198.0
67.5°	111.0	109.6	110.5	111.0	112.6	114.8	118.3	122.9	130.6	143.7	162.5
70°	98.3	97.1	96.9	97.4	98.8	100.4	103.0	107.4	114.6	125.1	138.8
72.5°	85.3	84.5	84.4	85.5	86.1	87.2	89.0	93.0	98.8	106.7	119.5
75°	66.6	66.6	66.6	66.9	67.6	68.5	69.9	72.0	76.4	82.0	90.6
77.5°	49.9	49.9	49.6	49.6	50.6	51.0	51.3	53.3	55.8	59.5	65.8
80°	39.1	38.0	38.4	39.1	39.6	39.8	40.5	41.0	43.1	45.2	49.6
82.5°	29.1	28.1	28.2	29.3	29.4	29.6	30.3	30.9	31.7	33.6	36.0
85°	15.4	15.4	15.6	15.6	15.8	15.6	16.3	16.5	16.5	17.7	19.1
87.5°	10.0	9.6	9.7	9.8	9.6	9.7	9.7	9.8	9.8	9.9	9.7
90°	22.3	21.9	21.6	21.3	20.9	20.5	19.8	19.1	18.5	17.8	15.7
92.5°	30.0	30.2	30.4	30.6	30.8	30.6	30.1	29.6	29.0	28.5	27.3
95°	57.9	57.9	57.9	57.9	57.9	57.6	56.9	56.2	55.6	54.9	53.6
97.5°	89.1	89.1	89.2	89.3	89.3	89.0	88.2	87.5	86.7	86.0	85.0
100°	112.8	112.5	112.2	111.8	111.5	111.1	110.6	110.1	109.6	109.1	108.3
102.5°	137.2	137.2	137.3	137.4	137.4	137.2	136.7	136.2	135.7	135.2	134.1
105°	176.7	176.3	176.0	175.7	175.3	175.2	175.2	175.2	175.2	175.2	173.7
107.5°	217.8	218.0	218.2	218.4	218.6	218.4	217.9	217.3	216.8	216.3	215.7
110°	245.7	246.0	246.3	246.7	247.0	246.8	246.2	245.5	244.9	244.2	243.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	275.4	275.4	275.5	275.6	275.6	275.3	274.5	273.7	272.9	272.1	272.0
115°	316.2	316.4	316.5	316.7	316.9	316.9	316.7	316.5	316.4	316.2	316.5
117.5°	357.6	358.1	358.5	359.0	359.5	359.7	359.7	359.8	359.8	359.8	360.3
120°	386.7	387.0	387.4	387.7	388.0	388.3	388.4	388.6	388.8	388.9	389.8
122.5°	414.6	415.1	415.5	416.0	416.5	416.9	417.3	417.8	418.2	418.6	419.1
125°	456.5	457.1	457.8	458.5	459.1	459.8	460.4	461.1	461.8	462.4	462.7
127.5°	498.2	499.0	499.7	500.5	501.2	502.1	503.0	503.9	504.8	505.8	506.1
130°	525.5	526.7	527.8	529.0	530.1	531.0	531.7	532.4	533.0	533.7	534.2
132.5°	554.0	554.9	555.8	556.7	557.6	558.4	559.2	560.0	560.8	561.6	561.9
135°	598.2	598.6	598.9	599.2	599.6	600.1	600.7	601.4	602.0	602.7	602.9
137.5°	637.3	637.9	638.5	639.2	639.8	640.5	641.1	641.8	642.5	643.2	642.8
140°	662.8	664.0	665.1	666.3	667.4	668.1	668.3	668.4	668.6	668.8	668.6
142.5°	688.9	689.8	690.7	691.6	692.5	693.0	693.2	693.4	693.5	693.7	693.4
145°	726.7	727.3	728.0	728.6	729.3	729.7	729.9	730.0	730.2	730.4	729.9
147.5°	760.2	761.2	762.2	763.2	764.2	764.7	764.7	764.7	764.7	764.7	764.2
150°	781.6	782.6	783.6	784.5	785.5	786.0	786.0	786.0	786.0	786.0	785.7
152.5°	802.4	803.2	804.1	804.9	805.8	806.1	805.8	805.6	805.3	805.0	804.8
155°	830.6	831.7	832.9	834.0	835.2	835.4	834.8	834.1	833.5	832.8	832.6
157.5°	856.2	857.2	858.1	859.0	859.9	860.1	859.4	858.7	858.0	857.3	857.2
160°	872.9	873.5	874.2	874.9	875.5	875.4	874.6	873.8	873.0	872.1	872.1
162.5°	885.3	886.4	887.5	888.5	889.6	889.7	888.9	888.0	887.2	886.4	886.3
165°	903.3	904.5	905.6	906.8	907.9	908.0	907.0	906.0	905.0	904.0	904.0
167.5°	918.6	919.6	920.6	921.7	922.7	922.7	921.7	920.6	919.6	918.6	918.5
170°	926.3	927.5	928.6	929.8	930.9	930.9	929.8	928.6	927.5	926.3	926.3
172.5°	932.3	933.4	934.6	935.7	936.9	936.9	935.9	934.9	933.9	932.8	932.8
175°	938.9	940.1	941.2	942.4	943.6	943.6	942.6	941.7	940.7	939.7	939.7
177.5°	942.5	943.4	944.3	945.3	946.2	946.3	945.5	944.7	943.9	943.1	943.1
180°	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8
2.5°	495.7	494.3	492.8	490.2	487.9	484.8	483.8	482.7	479.3	476.4	474.1
5°	526.0	520.4	512.3	504.8	498.8	490.6	486.0	481.1	474.1	467.8	462.7
7.5°	557.7	546.7	534.0	520.4	507.6	495.3	485.4	476.5	466.7	457.5	450.2
10°	582.9	567.0	549.3	530.2	513.9	498.1	484.8	473.2	460.6	449.6	440.5
12.5°	611.6	588.1	563.7	540.5	521.2	499.2	483.1	468.3	454.0	440.9	430.7
15°	645.5	615.7	586.8	554.9	525.6	498.1	479.0	460.3	443.8	430.3	417.2
17.5°	676.5	642.7	604.6	565.8	530.4	497.8	471.1	450.0	429.3	412.8	399.8
20°	694.0	655.6	612.5	572.2	533.0	496.7	467.3	442.2	419.8	402.3	387.7
22.5°	709.1	664.1	619.5	576.4	532.8	493.7	460.4	434.5	410.3	393.2	377.6
25°	724.8	670.9	626.2	575.7	527.0	486.4	449.2	419.8	395.6	375.5	359.5
27.5°	738.2	670.5	617.4	563.0	517.7	477.1	437.3	405.8	380.1	358.3	342.0
30°	747.1	671.4	608.3	554.5	508.8	466.9	428.2	396.5	369.5	347.4	332.0
32.5°	752.7	670.8	599.9	542.5	494.6	457.5	418.3	385.5	357.7	336.0	321.2
35°	756.0	666.7	585.4	517.9	471.8	435.6	402.8	368.8	339.7	319.4	302.6
37.5°	749.4	658.1	568.7	494.1	443.6	408.1	380.4	351.5	323.6	301.3	286.8
40°	739.2	652.5	555.6	477.3	424.2	390.0	366.5	338.0	310.5	289.3	275.8
42.5°	719.6	641.2	541.3	458.7	404.1	369.9	348.2	324.4	298.4	278.5	265.0
45°	671.9	616.4	519.7	430.8	374.4	339.0	319.9	302.6	279.1	259.8	248.1
47.5°	605.6	579.2	488.6	401.3	343.3	309.3	289.4	275.6	258.4	242.7	231.6
50°	559.6	548.6	467.6	381.1	322.7	289.3	270.2	257.7	245.3	229.7	219.5
52.5°	506.5	513.2	443.0	360.3	301.6	268.8	250.9	240.9	229.7	216.8	207.9
55°	431.7	456.1	400.5	325.2	270.2	239.0	222.0	213.2	206.6	197.1	189.4
57.5°	361.7	392.8	354.5	289.1	239.4	212.5	196.2	186.6	182.4	177.4	171.3
60°	320.1	350.8	321.7	264.9	218.8	193.1	178.7	170.5	166.3	162.8	157.7
62.5°	283.0	314.1	289.7	240.3	198.4	174.7	162.1	154.1	150.9	149.1	144.7
65°	232.0	258.8	242.5	202.0	169.4	148.4	137.0	131.4	128.4	127.7	124.9
67.5°	188.8	209.2	197.4	167.5	141.9	123.8	114.1	109.3	107.0	106.7	104.6
70°	160.5	179.6	170.5	143.5	121.4	107.2	98.8	94.6	93.2	93.0	91.8
72.5°	138.5	151.8	144.6	122.1	105.0	92.1	85.9	81.5	80.0	80.3	79.5
75°	102.5	112.5	108.3	92.7	79.0	70.6	65.5	62.7	61.3	62.0	61.0
77.5°	73.8	80.1	76.3	65.5	57.0	51.0	47.2	45.5	44.2	44.2	43.8
80°	55.7	59.4	57.3	50.8	43.8	38.7	35.6	34.5	33.8	33.5	33.3
82.5°	39.7	42.8	40.3	35.9	31.1	28.0	26.3	24.8	24.3	24.4	24.2
85°	20.0	21.2	20.3	17.5	15.6	14.2	13.3	12.6	12.1	12.3	11.9
87.5°	9.6	9.4	8.4	7.2	6.5	5.7	5.3	4.6	4.6	4.9	5.1
90°	13.5	11.4	9.2	7.3	5.7	4.0	2.4	0.7	2.4	4.0	5.7
92.5°	26.1	24.8	23.6	22.4	21.3	20.2	19.1	18.0	19.1	20.2	21.3
95°	52.3	51.0	49.6	48.4	47.3	46.1	44.9	43.8	44.9	46.1	47.3
97.5°	84.0	83.1	82.1	81.2	80.4	79.5	78.6	77.8	78.6	79.5	80.4
100°	107.5	106.6	105.8	104.9	103.9	102.9	101.9	100.9	101.9	102.9	103.9
102.5°	133.1	132.0	130.9	130.0	129.4	128.9	128.3	127.7	128.3	128.9	129.4
105°	172.2	170.7	169.2	168.3	168.0	167.7	167.3	167.0	167.3	167.7	168.0
107.5°	215.1	214.5	213.9	213.5	213.3	213.1	212.9	212.7	212.9	213.1	213.3
110°	243.5	243.2	242.9	242.5	242.2	241.9	241.6	241.2	241.6	241.9	242.2



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	272.0	271.9	271.8	271.7	271.5	271.3	271.1	270.9	271.1	271.3	271.5
115°	316.9	317.2	317.5	317.4	316.9	316.4	315.9	315.5	315.9	316.4	316.9
117.5°	360.7	361.1	361.6	361.6	361.3	360.9	360.6	360.3	360.6	360.9	361.3
120°	390.6	391.4	392.2	392.2	391.2	390.2	389.2	388.2	389.2	390.2	391.2
122.5°	419.5	419.9	420.3	420.2	419.5	418.7	418.0	417.3	418.0	418.7	419.5
125°	463.1	463.4	463.7	463.7	463.2	462.7	462.2	461.7	462.2	462.7	463.2
127.5°	506.5	506.9	507.2	506.9	505.8	504.8	503.7	502.6	503.7	504.8	505.8
130°	534.7	535.2	535.7	535.2	533.9	532.6	531.3	530.0	531.3	532.6	533.9
132.5°	562.3	562.7	563.0	562.6	561.2	559.9	558.6	557.3	558.6	559.9	561.2
135°	603.0	603.2	603.4	602.9	602.0	601.0	600.0	599.0	600.0	601.0	602.0
137.5°	642.4	641.9	641.5	640.9	640.1	639.2	638.4	637.6	638.4	639.2	640.1
140°	668.4	668.3	668.1	667.6	666.8	666.0	665.1	664.3	665.1	666.0	666.8
142.5°	693.1	692.8	692.5	691.9	691.1	690.3	689.5	688.7	689.5	690.3	691.1
145°	729.4	728.9	728.4	728.0	727.6	727.3	727.0	726.7	727.0	727.3	727.6
147.5°	763.7	763.3	762.8	762.3	761.7	761.1	760.5	759.9	760.5	761.1	761.7
150°	785.4	785.0	784.7	784.4	784.1	783.7	783.4	783.1	783.4	783.7	784.1
152.5°	804.6	804.4	804.2	803.9	803.5	803.0	802.5	802.1	802.5	803.0	803.5
155°	832.5	832.3	832.1	832.1	832.1	832.1	832.1	832.1	832.1	832.1	832.1
157.5°	857.0	856.9	856.8	856.8	857.0	857.2	857.4	857.6	857.4	857.2	857.0
160°	872.1	872.1	872.1	872.3	872.6	873.0	873.3	873.6	873.3	873.0	872.6
162.5°	886.1	886.0	885.9	886.0	886.5	886.9	887.4	887.9	887.4	886.9	886.5
165°	904.0	904.0	904.0	904.3	904.8	905.3	905.8	906.3	905.8	905.3	904.8
167.5°	918.3	918.2	918.1	918.3	919.0	919.7	920.3	921.0	920.3	919.7	919.0
170°	926.3	926.3	926.3	926.6	927.3	928.0	928.6	929.3	928.6	928.0	927.3
172.5°	932.8	932.8	932.8	933.2	933.8	934.5	935.2	935.8	935.2	934.5	933.8
175°	939.7	939.7	939.7	940.0	940.7	941.3	942.0	942.6	942.0	941.3	940.7
177.5°	943.1	943.1	943.1	943.4	943.9	944.4	944.9	945.5	944.9	944.4	943.9
180°	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8
2.5°	472.8	471.5	469.7	466.9	464.6	461.1	461.1	461.6	461.6	461.5	461.1
5°	458.5	455.0	450.8	445.9	440.8	435.6	434.7	432.8	431.5	430.5	429.4
7.5°	443.3	437.1	431.0	424.2	417.9	412.8	409.2	406.2	404.3	402.2	400.7
10°	433.1	425.4	418.2	411.0	403.0	396.7	392.8	390.0	387.9	386.0	385.1
12.5°	421.0	412.2	404.2	397.3	388.7	382.2	378.4	377.1	374.7	370.7	368.7
15°	403.3	395.1	385.6	375.1	370.9	363.0	358.5	356.4	355.0	352.0	351.1
17.5°	388.1	377.5	366.7	358.9	351.1	344.7	342.2	339.6	337.8	335.3	334.5
20°	376.0	366.5	356.7	348.3	340.1	333.1	331.0	329.2	327.3	326.2	325.2
22.5°	363.7	354.2	346.0	338.2	329.5	324.9	322.7	320.6	319.3	318.5	317.6
25°	346.4	338.0	328.9	322.0	315.0	311.9	310.5	309.4	308.4	307.3	307.0
27.5°	331.0	321.8	314.5	307.9	302.9	300.4	299.0	298.5	298.7	299.1	299.4
30°	319.4	311.0	305.0	299.4	294.7	292.4	292.1	292.1	293.1	293.3	293.8
32.5°	308.8	301.9	295.8	290.4	286.9	285.3	286.2	286.2	286.9	287.5	288.4
35°	293.3	287.2	282.6	277.9	274.9	275.6	276.1	276.5	277.7	279.1	280.0
37.5°	278.5	273.3	268.4	264.8	263.4	264.6	265.8	266.7	268.1	269.2	270.1
40°	267.9	263.9	259.3	256.0	256.5	257.2	258.1	259.3	260.5	261.2	262.1
42.5°	258.0	253.9	250.3	247.6	248.3	249.2	249.7	250.3	251.7	253.0	253.5
45°	243.0	239.7	236.5	234.8	235.3	235.8	236.2	236.9	238.1	239.0	239.3
47.5°	226.1	223.8	221.6	220.0	220.8	220.6	221.2	222.7	223.0	223.6	224.9
50°	215.3	213.2	210.6	210.1	210.1	210.1	210.4	212.2	212.2	213.2	214.1
52.5°	203.3	202.0	200.4	199.5	199.1	199.1	200.1	201.0	201.4	202.7	203.7
55°	185.7	184.3	182.9	182.2	181.7	182.2	184.0	184.5	185.7	186.4	187.1
57.5°	167.3	166.2	165.1	164.7	164.6	165.2	166.2	167.6	167.9	170.1	171.1
60°	155.2	153.5	152.6	152.6	152.1	154.2	153.8	156.1	156.6	158.0	159.6
62.5°	142.7	140.5	140.1	140.1	140.8	141.4	142.0	143.0	144.3	146.0	147.3
65°	122.5	121.4	123.0	122.8	122.3	123.7	123.7	124.9	126.3	127.9	130.5
67.5°	103.5	102.9	103.0	103.0	103.7	104.5	105.2	106.2	107.9	109.6	111.3
70°	90.6	91.3	90.2	91.1	91.8	92.0	92.5	93.9	95.7	96.9	98.8
72.5°	78.1	78.1	78.2	78.6	79.3	79.7	80.2	81.8	83.8	84.8	86.3
75°	60.1	59.9	60.6	60.6	61.7	62.2	62.7	63.4	65.2	66.6	67.8
77.5°	43.9	44.2	44.0	44.8	44.5	44.6	46.0	46.7	46.9	49.7	50.3
80°	33.1	33.5	33.8	34.0	34.2	33.8	35.4	36.1	36.1	37.7	38.9
82.5°	23.8	24.0	24.6	24.9	24.9	25.4	25.5	26.0	26.6	27.3	28.8
85°	11.9	12.6	12.8	12.6	12.8	12.3	13.0	13.3	13.5	13.5	13.5
87.5°	5.2	5.8	6.0	6.6	6.9	7.5	7.6	7.4	7.5	8.2	7.5
90°	7.3	9.2	11.4	13.5	15.7	17.8	18.5	19.1	19.8	20.5	20.9
92.5°	22.4	23.6	24.8	26.1	27.3	28.5	29.0	29.6	30.1	30.6	30.8
95°	48.4	49.6	51.0	52.3	53.6	54.9	55.6	56.2	56.9	57.6	57.9
97.5°	81.2	82.1	83.1	84.0	85.0	86.0	86.7	87.5	88.2	89.0	89.3
100°	104.9	105.8	106.6	107.5	108.3	109.1	109.6	110.1	110.6	111.1	111.5
102.5°	130.0	130.9	132.0	133.1	134.1	135.2	135.7	136.2	136.7	137.2	137.4
105°	168.3	169.2	170.7	172.2	173.7	175.2	175.2	175.2	175.2	175.2	175.3
107.5°	213.5	213.9	214.5	215.1	215.7	216.3	216.8	217.3	217.9	218.4	218.6
110°	242.5	242.9	243.2	243.5	243.9	244.2	244.9	245.5	246.2	246.8	247.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	271.7	271.8	271.9	272.0	272.0	272.1	272.9	273.7	274.5	275.3	275.6
115°	317.4	317.5	317.2	316.9	316.5	316.2	316.4	316.5	316.7	316.9	316.9
117.5°	361.6	361.6	361.1	360.7	360.3	359.8	359.8	359.8	359.7	359.7	359.5
120°	392.2	392.2	391.4	390.6	389.8	388.9	388.8	388.6	388.4	388.3	388.0
122.5°	420.2	420.3	419.9	419.5	419.1	418.6	418.2	417.8	417.3	416.9	416.5
125°	463.7	463.7	463.4	463.1	462.7	462.4	461.8	461.1	460.4	459.8	459.1
127.5°	506.9	507.2	506.9	506.5	506.1	505.8	504.8	503.9	503.0	502.1	501.2
130°	535.2	535.7	535.2	534.7	534.2	533.7	533.0	532.4	531.7	531.0	530.1
132.5°	562.6	563.0	562.7	562.3	561.9	561.6	560.8	560.0	559.2	558.4	557.6
135°	602.9	603.4	603.2	603.0	602.9	602.7	602.0	601.4	600.7	600.1	599.6
137.5°	640.9	641.5	641.9	642.4	642.8	643.2	642.5	641.8	641.1	640.5	639.8
140°	667.6	668.1	668.3	668.4	668.6	668.8	668.6	668.4	668.3	668.1	667.4
142.5°	691.9	692.5	692.8	693.1	693.4	693.7	693.5	693.4	693.2	693.0	692.5
145°	728.0	728.4	728.9	729.4	729.9	730.4	730.2	730.0	729.9	729.7	729.3
147.5°	762.3	762.8	763.3	763.7	764.2	764.7	764.7	764.7	764.7	764.7	764.2
150°	784.4	784.7	785.0	785.4	785.7	786.0	786.0	786.0	786.0	786.0	785.5
152.5°	803.9	804.2	804.4	804.6	804.8	805.0	805.3	805.6	805.8	806.1	805.8
155°	832.1	832.1	832.3	832.5	832.6	832.8	833.5	834.1	834.8	835.4	835.2
157.5°	856.8	856.8	856.9	857.0	857.2	857.3	858.0	858.7	859.4	860.1	859.9
160°	872.3	872.1	872.1	872.1	872.1	872.1	873.0	873.8	874.6	875.4	875.5
162.5°	886.0	885.9	886.0	886.1	886.3	886.4	887.2	888.0	888.9	889.7	889.6
165°	904.3	904.0	904.0	904.0	904.0	904.0	905.0	906.0	907.0	908.0	907.9
167.5°	918.3	918.1	918.2	918.3	918.5	918.6	919.6	920.6	921.7	922.7	922.7
170°	926.6	926.3	926.3	926.3	926.3	926.3	927.5	928.6	929.8	930.9	930.9
172.5°	933.2	932.8	932.8	932.8	932.8	932.8	933.9	934.9	935.9	936.9	936.9
175°	940.0	939.7	939.7	939.7	939.7	939.7	940.7	941.7	942.6	943.6	943.6
177.5°	943.4	943.1	943.1	943.1	943.1	943.1	943.9	944.7	945.5	946.3	946.2
180°	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9



TEST NUMBER: P332097

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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8
2.5°	459.8	459.6	460.9	460.0	460.9	459.6	459.8	461.1	461.5	461.6	461.6
5°	428.0	428.7	426.3	426.3	426.3	428.7	428.0	429.4	430.5	431.5	432.8
7.5°	399.6	398.6	398.7	397.4	398.7	398.6	399.6	400.7	402.2	404.3	406.2
10°	382.3	380.9	380.4	380.7	380.4	380.9	382.3	385.1	386.0	387.9	390.0
12.5°	367.9	367.7	364.6	364.6	364.6	367.7	367.9	368.7	370.7	374.7	377.1
15°	351.1	346.7	346.2	347.6	346.2	346.7	351.1	351.1	352.0	355.0	356.4
17.5°	334.2	331.8	332.0	331.3	332.0	331.8	334.2	334.5	335.3	337.8	339.6
20°	325.2	323.8	323.6	322.0	323.6	323.8	325.2	325.2	326.2	327.3	329.2
22.5°	317.0	316.6	316.7	314.9	316.7	316.6	317.0	317.6	318.5	319.3	320.6
25°	306.8	308.0	307.0	307.0	307.0	308.0	306.8	307.0	307.3	308.4	309.4
27.5°	299.9	299.9	299.4	299.4	299.4	299.9	299.9	299.4	299.1	298.7	298.5
30°	294.7	294.5	294.9	294.9	294.9	294.5	294.7	293.8	293.3	293.1	292.1
32.5°	289.5	289.8	289.9	290.1	289.9	289.8	289.5	288.4	287.5	286.9	286.2
35°	281.4	281.7	282.4	281.9	282.4	281.7	281.4	280.0	279.1	277.7	276.5
37.5°	270.5	271.6	271.4	271.7	271.4	271.6	270.5	270.1	269.2	268.1	266.7
40°	262.3	263.0	262.8	262.8	262.8	263.0	262.3	262.1	261.2	260.5	259.3
42.5°	253.9	254.4	253.8	253.5	253.8	254.4	253.9	253.5	253.0	251.7	250.3
45°	240.2	239.7	240.4	239.5	240.4	239.7	240.2	239.3	239.0	238.1	236.9
47.5°	224.8	225.3	225.5	226.2	225.5	225.3	224.8	224.9	223.6	223.0	222.7
50°	214.6	216.0	216.0	215.7	216.0	216.0	214.6	214.1	213.2	212.2	212.2
52.5°	204.5	205.1	206.1	206.0	206.1	205.1	204.5	203.7	202.7	201.4	201.0
55°	188.9	189.4	189.9	190.1	189.9	189.4	188.9	187.1	186.4	185.7	184.5
57.5°	172.8	172.6	173.7	174.1	173.7	172.6	172.8	171.1	170.1	167.9	167.6
60°	161.4	161.4	163.3	164.0	163.3	161.4	161.4	159.6	158.0	156.6	156.1
62.5°	149.3	150.1	151.9	151.0	151.9	150.1	149.3	147.3	146.0	144.3	143.0
65°	131.6	133.5	133.3	134.2	133.3	133.5	131.6	130.5	127.9	126.3	124.9
67.5°	113.1	114.3	116.0	116.1	116.0	114.3	113.1	111.3	109.6	107.9	106.2
70°	100.6	101.8	102.7	103.4	102.7	101.8	100.6	98.8	96.9	95.7	93.9
72.5°	88.5	89.1	91.4	90.4	91.4	89.1	88.5	86.3	84.8	83.8	81.8
75°	69.4	71.1	72.5	71.8	72.5	71.1	69.4	67.8	66.6	65.2	63.4
77.5°	51.3	53.0	53.6	53.0	53.6	53.0	51.3	50.3	49.7	46.9	46.7
80°	40.5	40.3	41.7	41.5	41.7	40.3	40.5	38.9	37.7	36.1	36.1
82.5°	29.7	29.5	30.1	30.3	30.1	29.5	29.7	28.8	27.3	26.6	26.0
85°	14.4	15.1	14.2	14.0	14.2	15.1	14.4	13.5	13.5	13.5	13.3
87.5°	7.6	7.7	7.6	7.4	7.6	7.7	7.6	7.5	8.2	7.5	7.4
90°	21.3	21.6	21.9	22.3	21.9	21.6	21.3	20.9	20.5	19.8	19.1
92.5°	30.6	30.4	30.2	30.0	30.2	30.4	30.6	30.8	30.6	30.1	29.6
95°	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.6	56.9	56.2
97.5°	89.3	89.2	89.1	89.1	89.1	89.2	89.3	89.3	89.0	88.2	87.5
100°	111.8	112.2	112.5	112.8	112.5	112.2	111.8	111.5	111.1	110.6	110.1
102.5°	137.4	137.3	137.2	137.2	137.2	137.3	137.4	137.4	137.2	136.7	136.2
105°	175.7	176.0	176.3	176.7	176.3	176.0	175.7	175.3	175.2	175.2	175.2
107.5°	218.4	218.2	218.0	217.8	218.0	218.2	218.4	218.6	218.4	217.9	217.3
110°	246.7	246.3	246.0	245.7	246.0	246.3	246.7	247.0	246.8	246.2	245.5



TEST NUMBER: P332097

CATALOG NUMBER: S123DIW-S340D755U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	275.6	275.5	275.4	275.4	275.4	275.5	275.6	275.6	275.3	274.5	273.7
115°	316.7	316.5	316.4	316.2	316.4	316.5	316.7	316.9	316.9	316.7	316.5
117.5°	359.0	358.5	358.1	357.6	358.1	358.5	359.0	359.5	359.7	359.7	359.8
120°	387.7	387.4	387.0	386.7	387.0	387.4	387.7	388.0	388.3	388.4	388.6
122.5°	416.0	415.5	415.1	414.6	415.1	415.5	416.0	416.5	416.9	417.3	417.8
125°	458.5	457.8	457.1	456.5	457.1	457.8	458.5	459.1	459.8	460.4	461.1
127.5°	500.5	499.7	499.0	498.2	499.0	499.7	500.5	501.2	502.1	503.0	503.9
130°	529.0	527.8	526.7	525.5	526.7	527.8	529.0	530.1	531.0	531.7	532.4
132.5°	556.7	555.8	554.9	554.0	554.9	555.8	556.7	557.6	558.4	559.2	560.0
135°	599.2	598.9	598.6	598.2	598.6	598.9	599.2	599.6	600.1	600.7	601.4
137.5°	639.2	638.5	637.9	637.3	637.9	638.5	639.2	639.8	640.5	641.1	641.8
140°	666.3	665.1	664.0	662.8	664.0	665.1	666.3	667.4	668.1	668.3	668.4
142.5°	691.6	690.7	689.8	688.9	689.8	690.7	691.6	692.5	693.0	693.2	693.4
145°	728.6	728.0	727.3	726.7	727.3	728.0	728.6	729.3	729.7	729.9	730.0
147.5°	763.2	762.2	761.2	760.2	761.2	762.2	763.2	764.2	764.7	764.7	764.7
150°	784.5	783.6	782.6	781.6	782.6	783.6	784.5	785.5	786.0	786.0	786.0
152.5°	804.9	804.1	803.2	802.4	803.2	804.1	804.9	805.8	806.1	805.8	805.6
155°	834.0	832.9	831.7	830.6	831.7	832.9	834.0	835.2	835.4	834.8	834.1
157.5°	859.0	858.1	857.2	856.2	857.2	858.1	859.0	859.9	860.1	859.4	858.7
160°	874.9	874.2	873.5	872.9	873.5	874.2	874.9	875.5	875.4	874.6	873.8
162.5°	888.5	887.5	886.4	885.3	886.4	887.5	888.5	889.6	889.7	888.9	888.0
165°	906.8	905.6	904.5	903.3	904.5	905.6	906.8	907.9	908.0	907.0	906.0
167.5°	921.7	920.6	919.6	918.6	919.6	920.6	921.7	922.7	922.7	921.7	920.6
170°	929.8	928.6	927.5	926.3	927.5	928.6	929.8	930.9	930.9	929.8	928.6
172.5°	935.7	934.6	933.4	932.3	933.4	934.6	935.7	936.9	936.9	935.9	934.9
175°	942.4	941.2	940.1	938.9	940.1	941.2	942.4	943.6	943.6	942.6	941.7
177.5°	945.3	944.3	943.4	942.5	943.4	944.3	945.3	946.2	946.3	945.5	944.7
180°	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9



TEST NUMBER: P332097

CATALOG NUMBER: S123DIW-S340D755U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8
2.5°	461.1	461.1	464.6	466.9	469.7	471.5	472.8	474.1	476.4	479.3	482.7
5°	434.7	435.6	440.8	445.9	450.8	455.0	458.5	462.7	467.8	474.1	481.1
7.5°	409.2	412.8	417.9	424.2	431.0	437.1	443.3	450.2	457.5	466.7	476.5
10°	392.8	396.7	403.0	411.0	418.2	425.4	433.1	440.5	449.6	460.6	473.2
12.5°	378.4	382.2	388.7	397.3	404.2	412.2	421.0	430.7	440.9	454.0	468.3
15°	358.5	363.0	370.9	375.1	385.6	395.1	403.3	417.2	430.3	443.8	460.3
17.5°	342.2	344.7	351.1	358.9	366.7	377.5	388.1	399.8	412.8	429.3	450.0
20°	331.0	333.1	340.1	348.3	356.7	366.5	376.0	387.7	402.3	419.8	442.2
22.5°	322.7	324.9	329.5	338.2	346.0	354.2	363.7	377.6	393.2	410.3	434.5
25°	310.5	311.9	315.0	322.0	328.9	338.0	346.4	359.5	375.5	395.6	419.8
27.5°	299.0	300.4	302.9	307.9	314.5	321.8	331.0	342.0	358.3	380.1	405.8
30°	292.1	292.4	294.7	299.4	305.0	311.0	319.4	332.0	347.4	369.5	396.5
32.5°	286.2	285.3	286.9	290.4	295.8	301.9	308.8	321.2	336.0	357.7	385.5
35°	276.1	275.6	274.9	277.9	282.6	287.2	293.3	302.6	319.4	339.7	368.8
37.5°	265.8	264.6	263.4	264.8	268.4	273.3	278.5	286.8	301.3	323.6	351.5
40°	258.1	257.2	256.5	256.0	259.3	263.9	267.9	275.8	289.3	310.5	338.0
42.5°	249.7	249.2	248.3	247.6	250.3	253.9	258.0	265.0	278.5	298.4	324.4
45°	236.2	235.8	235.3	234.8	236.5	239.7	243.0	248.1	259.8	279.1	302.6
47.5°	221.2	220.6	220.8	220.0	221.6	223.8	226.1	231.6	242.7	258.4	275.6
50°	210.4	210.1	210.1	210.1	210.6	213.2	215.3	219.5	229.7	245.3	257.7
52.5°	200.1	199.1	199.1	199.5	200.4	202.0	203.3	207.9	216.8	229.7	240.9
55°	184.0	182.2	181.7	182.2	182.9	184.3	185.7	189.4	197.1	206.6	213.2
57.5°	166.2	165.2	164.6	164.7	165.1	166.2	167.3	171.3	177.4	182.4	186.6
60°	153.8	154.2	152.1	152.6	152.6	153.5	155.2	157.7	162.8	166.3	170.5
62.5°	142.0	141.4	140.8	140.1	140.1	140.5	142.7	144.7	149.1	150.9	154.1
65°	123.7	123.7	122.3	122.8	123.0	121.4	122.5	124.9	127.7	128.4	131.4
67.5°	105.2	104.5	103.7	103.0	103.0	102.9	103.5	104.6	106.7	107.0	109.3
70°	92.5	92.0	91.8	91.1	90.2	91.3	90.6	91.8	93.0	93.2	94.6
72.5°	80.2	79.7	79.3	78.6	78.2	78.1	78.1	79.5	80.3	80.0	81.5
75°	62.7	62.2	61.7	60.6	60.6	59.9	60.1	61.0	62.0	61.3	62.7
77.5°	46.0	44.6	44.5	44.8	44.0	44.2	43.9	43.8	44.2	44.2	45.5
80°	35.4	33.8	34.2	34.0	33.8	33.5	33.1	33.3	33.5	33.8	34.5
82.5°	25.5	25.4	24.9	24.9	24.6	24.0	23.8	24.2	24.4	24.3	24.8
85°	13.0	12.3	12.8	12.6	12.8	12.6	11.9	11.9	12.3	12.1	12.6
87.5°	7.6	7.5	6.9	6.6	6.0	5.8	5.2	5.1	4.9	4.6	4.6
90°	18.5	17.8	15.7	13.5	11.4	9.2	7.3	5.7	4.0	2.4	0.7
92.5°	29.0	28.5	27.3	26.1	24.8	23.6	22.4	21.3	20.2	19.1	18.0
95°	55.6	54.9	53.6	52.3	51.0	49.6	48.4	47.3	46.1	44.9	43.8
97.5°	86.7	86.0	85.0	84.0	83.1	82.1	81.2	80.4	79.5	78.6	77.8
100°	109.6	109.1	108.3	107.5	106.6	105.8	104.9	103.9	102.9	101.9	100.9
102.5°	135.7	135.2	134.1	133.1	132.0	130.9	130.0	129.4	128.9	128.3	127.7
105°	175.2	175.2	173.7	172.2	170.7	169.2	168.3	168.0	167.7	167.3	167.0
107.5°	216.8	216.3	215.7	215.1	214.5	213.9	213.5	213.3	213.1	212.9	212.7
110°	244.9	244.2	243.9	243.5	243.2	242.9	242.5	242.2	241.9	241.6	241.2



TEST NUMBER: P332097

CATALOG NUMBER: S123DIW-S340D755U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	272.9	272.1	272.0	272.0	271.9	271.8	271.7	271.5	271.3	271.1	270.9
115°	316.4	316.2	316.5	316.9	317.2	317.5	317.4	316.9	316.4	315.9	315.5
117.5°	359.8	359.8	360.3	360.7	361.1	361.6	361.6	361.3	360.9	360.6	360.3
120°	388.8	388.9	389.8	390.6	391.4	392.2	392.2	391.2	390.2	389.2	388.2
122.5°	418.2	418.6	419.1	419.5	419.9	420.3	420.2	419.5	418.7	418.0	417.3
125°	461.8	462.4	462.7	463.1	463.4	463.7	463.7	463.2	462.7	462.2	461.7
127.5°	504.8	505.8	506.1	506.5	506.9	507.2	506.9	505.8	504.8	503.7	502.6
130°	533.0	533.7	534.2	534.7	535.2	535.7	535.2	533.9	532.6	531.3	530.0
132.5°	560.8	561.6	561.9	562.3	562.7	563.0	562.6	561.2	559.9	558.6	557.3
135°	602.0	602.7	602.9	603.0	603.2	603.4	602.9	602.0	601.0	600.0	599.0
137.5°	642.5	643.2	642.8	642.4	641.9	641.5	640.9	640.1	639.2	638.4	637.6
140°	668.6	668.8	668.6	668.4	668.3	668.1	667.6	666.8	666.0	665.1	664.3
142.5°	693.5	693.7	693.4	693.1	692.8	692.5	691.9	691.1	690.3	689.5	688.7
145°	730.2	730.4	729.9	729.4	728.9	728.4	728.0	727.6	727.3	727.0	726.7
147.5°	764.7	764.7	764.2	763.7	763.3	762.8	762.3	761.7	761.1	760.5	759.9
150°	786.0	786.0	785.7	785.4	785.0	784.7	784.4	784.1	783.7	783.4	783.1
152.5°	805.3	805.0	804.8	804.6	804.4	804.2	803.9	803.5	803.0	802.5	802.1
155°	833.5	832.8	832.6	832.5	832.3	832.1	832.1	832.1	832.1	832.1	832.1
157.5°	858.0	857.3	857.2	857.0	856.9	856.8	856.8	857.0	857.2	857.4	857.6
160°	873.0	872.1	872.1	872.1	872.1	872.1	872.3	872.6	873.0	873.3	873.6
162.5°	887.2	886.4	886.3	886.1	886.0	885.9	886.0	886.5	886.9	887.4	887.9
165°	905.0	904.0	904.0	904.0	904.0	904.0	904.3	904.8	905.3	905.8	906.3
167.5°	919.6	918.6	918.5	918.3	918.2	918.1	918.3	919.0	919.7	920.3	921.0
170°	927.5	926.3	926.3	926.3	926.3	926.3	926.6	927.3	928.0	928.6	929.3
172.5°	933.9	932.8	932.8	932.8	932.8	932.8	933.2	933.8	934.5	935.2	935.8
175°	940.7	939.7	939.7	939.7	939.7	939.7	940.0	940.7	941.3	942.0	942.6
177.5°	943.9	943.1	943.1	943.1	943.1	943.1	943.4	943.9	944.4	944.9	945.5
180°	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9



TEST NUMBER: P332097

CATALOG NUMBER: S123DIW-S340D755U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8
2.5°	483.8	484.8	487.9	490.2	492.8	494.3	495.7	496.9	498.4	498.7	504.1
5°	486.0	490.6	498.8	504.8	512.3	520.4	526.0	528.6	535.4	540.9	552.1
7.5°	485.4	495.3	507.6	520.4	534.0	546.7	557.7	570.8	580.0	594.0	607.7
10°	484.8	498.1	513.9	530.2	549.3	567.0	582.9	600.6	615.3	634.6	651.1
12.5°	483.1	499.2	521.2	540.5	563.7	588.1	611.6	634.3	647.3	679.5	694.7
15°	479.0	498.1	525.6	554.9	586.8	615.7	645.5	669.3	707.7	735.9	753.9
17.5°	471.1	497.8	530.4	565.8	604.6	642.7	676.5	712.5	753.3	787.4	823.8
20°	467.3	496.7	533.0	572.2	612.5	655.6	694.0	737.3	781.8	815.4	862.0
22.5°	460.4	493.7	532.8	576.4	619.5	664.1	709.1	752.8	804.2	850.4	894.8
25°	449.2	486.4	527.0	575.7	626.2	670.9	724.8	782.8	836.3	895.8	940.0
27.5°	437.3	477.1	517.7	563.0	617.4	670.5	738.2	803.7	869.2	920.5	953.3
30°	428.2	466.9	508.8	554.5	608.3	671.4	747.1	818.6	882.5	926.5	944.9
32.5°	418.3	457.5	494.6	542.5	599.9	670.8	752.7	827.4	883.2	912.5	908.9
35°	402.8	435.6	471.8	517.9	585.4	666.7	756.0	828.2	862.4	856.1	808.6
37.5°	380.4	408.1	443.6	494.1	568.7	658.1	749.4	803.6	801.4	750.2	681.3
40°	366.5	390.0	424.2	477.3	555.6	652.5	739.2	774.4	744.6	673.0	590.6
42.5°	348.2	369.9	404.1	458.7	541.3	641.2	719.6	729.8	671.5	589.2	513.6
45°	319.9	339.0	374.4	430.8	519.7	616.4	671.9	646.9	568.4	483.4	425.9
47.5°	289.4	309.3	343.3	401.3	488.6	579.2	605.6	552.6	472.0	403.0	350.2
50°	270.2	289.3	322.7	381.1	467.6	548.6	559.6	491.1	417.0	356.4	313.1
52.5°	250.9	268.8	301.6	360.3	443.0	513.2	506.5	436.7	368.6	316.9	282.9
55°	222.0	239.0	270.2	325.2	400.5	456.1	431.7	365.1	308.7	268.6	242.7
57.5°	196.2	212.5	239.4	289.1	354.5	392.8	361.7	305.5	260.7	229.8	210.6
60°	178.7	193.1	218.8	264.9	321.7	350.8	320.1	270.5	232.7	208.0	190.8
62.5°	162.1	174.7	198.4	240.3	289.7	314.1	283.0	241.0	208.9	187.0	172.3
65°	137.0	148.4	169.4	202.0	242.5	258.8	232.0	198.0	173.1	156.8	147.0
67.5°	114.1	123.8	141.9	167.5	197.4	209.2	188.8	162.5	143.7	130.6	122.9
70°	98.8	107.2	121.4	143.5	170.5	179.6	160.5	138.8	125.1	114.6	107.4
72.5°	85.9	92.1	105.0	122.1	144.6	151.8	138.5	119.5	106.7	98.8	93.0
75°	65.5	70.6	79.0	92.7	108.3	112.5	102.5	90.6	82.0	76.4	72.0
77.5°	47.2	51.0	57.0	65.5	76.3	80.1	73.8	65.8	59.5	55.8	53.3
80°	35.6	38.7	43.8	50.8	57.3	59.4	55.7	49.6	45.2	43.1	41.0
82.5°	26.3	28.0	31.1	35.9	40.3	42.8	39.7	36.0	33.6	31.7	30.9
85°	13.3	14.2	15.6	17.5	20.3	21.2	20.0	19.1	17.7	16.5	16.5
87.5°	5.3	5.7	6.5	7.2	8.4	9.4	9.6	9.7	9.9	9.8	9.8
90°	2.4	4.0	5.7	7.3	9.2	11.4	13.5	15.7	17.8	18.5	19.1
92.5°	19.1	20.2	21.3	22.4	23.6	24.8	26.1	27.3	28.5	29.0	29.6
95°	44.9	46.1	47.3	48.4	49.6	51.0	52.3	53.6	54.9	55.6	56.2
97.5°	78.6	79.5	80.4	81.2	82.1	83.1	84.0	85.0	86.0	86.7	87.5
100°	101.9	102.9	103.9	104.9	105.8	106.6	107.5	108.3	109.1	109.6	110.1
102.5°	128.3	128.9	129.4	130.0	130.9	132.0	133.1	134.1	135.2	135.7	136.2
105°	167.3	167.7	168.0	168.3	169.2	170.7	172.2	173.7	175.2	175.2	175.2
107.5°	212.9	213.1	213.3	213.5	213.9	214.5	215.1	215.7	216.3	216.8	217.3
110°	241.6	241.9	242.2	242.5	242.9	243.2	243.5	243.9	244.2	244.9	245.5



TEST NUMBER: P332097

CATALOG NUMBER: S123DIW-S340D755U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	271.1	271.3	271.5	271.7	271.8	271.9	272.0	272.0	272.1	272.9	273.7
115°	315.9	316.4	316.9	317.4	317.5	317.2	316.9	316.5	316.2	316.4	316.5
117.5°	360.6	360.9	361.3	361.6	361.6	361.1	360.7	360.3	359.8	359.8	359.8
120°	389.2	390.2	391.2	392.2	392.2	391.4	390.6	389.8	388.9	388.8	388.6
122.5°	418.0	418.7	419.5	420.2	420.3	419.9	419.5	419.1	418.6	418.2	417.8
125°	462.2	462.7	463.2	463.7	463.7	463.4	463.1	462.7	462.4	461.8	461.1
127.5°	503.7	504.8	505.8	506.9	507.2	506.9	506.5	506.1	505.8	504.8	503.9
130°	531.3	532.6	533.9	535.2	535.7	535.2	534.7	534.2	533.7	533.0	532.4
132.5°	558.6	559.9	561.2	562.6	563.0	562.7	562.3	561.9	561.6	560.8	560.0
135°	600.0	601.0	602.0	602.9	603.4	603.2	603.0	602.9	602.7	602.0	601.4
137.5°	638.4	639.2	640.1	640.9	641.5	641.9	642.4	642.8	643.2	642.5	641.8
140°	665.1	666.0	666.8	667.6	668.1	668.3	668.4	668.6	668.8	668.6	668.4
142.5°	689.5	690.3	691.1	691.9	692.5	692.8	693.1	693.4	693.7	693.5	693.4
145°	727.0	727.3	727.6	728.0	728.4	728.9	729.4	729.9	730.4	730.2	730.0
147.5°	760.5	761.1	761.7	762.3	762.8	763.3	763.7	764.2	764.7	764.7	764.7
150°	783.4	783.7	784.1	784.4	784.7	785.0	785.4	785.7	786.0	786.0	786.0
152.5°	802.5	803.0	803.5	803.9	804.2	804.4	804.6	804.8	805.0	805.3	805.6
155°	832.1	832.1	832.1	832.1	832.1	832.3	832.5	832.6	832.8	833.5	834.1
157.5°	857.4	857.2	857.0	856.8	856.8	856.9	857.0	857.2	857.3	858.0	858.7
160°	873.3	873.0	872.6	872.3	872.1	872.1	872.1	872.1	872.1	873.0	873.8
162.5°	887.4	886.9	886.5	886.0	885.9	886.0	886.1	886.3	886.4	887.2	888.0
165°	905.8	905.3	904.8	904.3	904.0	904.0	904.0	904.0	904.0	905.0	906.0
167.5°	920.3	919.7	919.0	918.3	918.1	918.2	918.3	918.5	918.6	919.6	920.6
170°	928.6	928.0	927.3	926.6	926.3	926.3	926.3	926.3	926.3	927.5	928.6
172.5°	935.2	934.5	933.8	933.2	932.8	932.8	932.8	932.8	932.8	933.9	934.9
175°	942.0	941.3	940.7	940.0	939.7	939.7	939.7	939.7	939.7	940.7	941.7
177.5°	944.9	944.4	943.9	943.4	943.1	943.1	943.1	943.1	943.1	943.9	944.7
180°	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9	944.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	480.8	480.8	480.8	480.8	480.8	480.8	480.8
2.5°	506.0	506.2	508.2	509.7	509.0	509.9	510.3
5°	552.8	561.2	565.6	568.9	569.1	569.4	571.2
7.5°	619.2	628.2	634.8	644.8	647.7	651.1	650.2
10°	667.7	681.0	692.4	698.4	705.0	714.5	706.8
12.5°	713.0	736.5	753.9	763.3	769.4	771.3	767.6
15°	787.7	818.4	834.9	834.5	855.4	864.5	850.3
17.5°	856.1	884.5	907.3	918.9	936.4	940.2	938.5
20°	898.1	929.1	946.8	966.8	975.9	984.0	985.4
22.5°	934.2	962.1	981.1	997.7	1005.3	1009.2	1011.5
25°	971.5	993.4	1004.8	1010.6	1012.7	1012.2	1009.2
27.5°	968.9	970.6	958.0	945.7	934.6	922.2	917.9
30°	943.7	924.2	889.2	869.4	840.3	817.2	826.6
32.5°	877.6	838.6	799.4	756.1	720.3	710.1	699.8
35°	749.0	680.5	640.4	593.8	575.2	556.6	543.7
37.5°	605.9	553.0	505.4	475.0	456.3	444.5	438.2
40°	523.9	476.2	437.0	412.3	398.1	384.9	383.0
42.5°	458.5	414.1	384.7	365.0	351.4	345.7	341.6
45°	375.5	344.6	324.8	310.8	301.7	298.2	293.5
47.5°	317.9	296.0	281.1	271.6	264.7	262.1	261.8
50°	285.6	267.4	256.5	249.0	243.7	242.7	239.0
52.5°	261.4	245.6	237.1	230.6	226.7	224.1	223.0
55°	226.9	216.4	208.7	205.0	202.0	199.4	199.4
57.5°	198.5	189.8	184.7	181.5	180.6	178.8	177.6
60°	181.0	173.6	169.6	166.8	164.9	165.2	163.1
62.5°	163.9	159.0	155.2	152.5	150.2	150.3	150.4
65°	139.5	135.8	133.0	132.1	130.7	129.1	129.5
67.5°	118.3	114.8	112.6	111.0	110.5	109.6	111.0
70°	103.0	100.4	98.8	97.4	96.9	97.1	98.3
72.5°	89.0	87.2	86.1	85.5	84.4	84.5	85.3
75°	69.9	68.5	67.6	66.9	66.6	66.6	66.6
77.5°	51.3	51.0	50.6	49.6	49.6	49.9	49.9
80°	40.5	39.8	39.6	39.1	38.4	38.0	39.1
82.5°	30.3	29.6	29.4	29.3	28.2	28.1	29.1
85°	16.3	15.6	15.8	15.6	15.6	15.4	15.4
87.5°	9.7	9.7	9.6	9.8	9.7	9.6	10.0
90°	19.8	20.5	20.9	21.3	21.6	21.9	22.3
92.5°	30.1	30.6	30.8	30.6	30.4	30.2	30.0
95°	56.9	57.6	57.9	57.9	57.9	57.9	57.9
97.5°	88.2	89.0	89.3	89.3	89.2	89.1	89.1
100°	110.6	111.1	111.5	111.8	112.2	112.5	112.8
102.5°	136.7	137.2	137.4	137.4	137.3	137.2	137.2
105°	175.2	175.2	175.3	175.7	176.0	176.3	176.7
107.5°	217.9	218.4	218.6	218.4	218.2	218.0	217.8
110°	246.2	246.8	247.0	246.7	246.3	246.0	245.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	274.5	275.3	275.6	275.6	275.5	275.4	275.4
115°	316.7	316.9	316.9	316.7	316.5	316.4	316.2
117.5°	359.7	359.7	359.5	359.0	358.5	358.1	357.6
120°	388.4	388.3	388.0	387.7	387.4	387.0	386.7
122.5°	417.3	416.9	416.5	416.0	415.5	415.1	414.6
125°	460.4	459.8	459.1	458.5	457.8	457.1	456.5
127.5°	503.0	502.1	501.2	500.5	499.7	499.0	498.2
130°	531.7	531.0	530.1	529.0	527.8	526.7	525.5
132.5°	559.2	558.4	557.6	556.7	555.8	554.9	554.0
135°	600.7	600.1	599.6	599.2	598.9	598.6	598.2
137.5°	641.1	640.5	639.8	639.2	638.5	637.9	637.3
140°	668.3	668.1	667.4	666.3	665.1	664.0	662.8
142.5°	693.2	693.0	692.5	691.6	690.7	689.8	688.9
145°	729.9	729.7	729.3	728.6	728.0	727.3	726.7
147.5°	764.7	764.7	764.2	763.2	762.2	761.2	760.2
150°	786.0	786.0	785.5	784.5	783.6	782.6	781.6
152.5°	805.8	806.1	805.8	804.9	804.1	803.2	802.4
155°	834.8	835.4	835.2	834.0	832.9	831.7	830.6
157.5°	859.4	860.1	859.9	859.0	858.1	857.2	856.2
160°	874.6	875.4	875.5	874.9	874.2	873.5	872.9
162.5°	888.9	889.7	889.6	888.5	887.5	886.4	885.3
165°	907.0	908.0	907.9	906.8	905.6	904.5	903.3
167.5°	921.7	922.7	922.7	921.7	920.6	919.6	918.6
170°	929.8	930.9	930.9	929.8	928.6	927.5	926.3
172.5°	935.9	936.9	936.9	935.7	934.6	933.4	932.3
175°	942.6	943.6	943.6	942.4	941.2	940.1	938.9
177.5°	945.5	946.3	946.2	945.3	944.3	943.4	942.5
180°	944.9	944.9	944.9	944.9	944.9	944.9	944.9

(END OF REPORT)