

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: P332090-927

Luminaire Tested: **S123DIW-S340D460U927-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332090-927  
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-S340D460U927-4F0-1E-UDD-A  
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 460 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2611.9 lumens  
Efficiency: N/A  
Efficacy: 113.6 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: General Diffuse

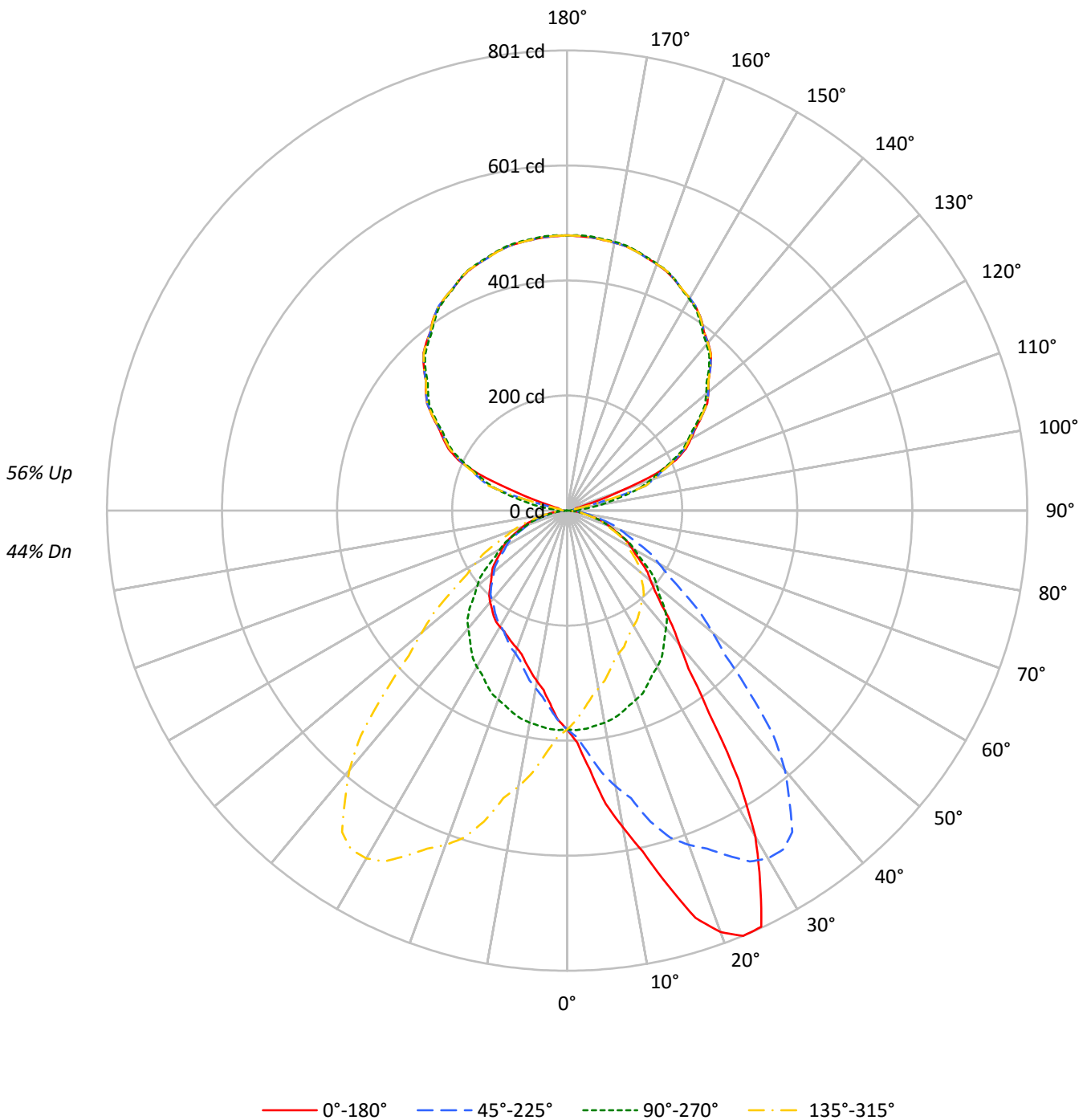
Input Watts (W): 23  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	44
1	97	93	89	85	88	85	82	79	70	68	66	57	56	54	45	44	43	38
2	88	81	75	70	81	74	69	65	62	58	55	51	48	46	40	38	37	32
3	81	71	64	59	74	66	59	54	55	50	47	45	42	39	36	33	32	27
4	74	63	56	50	67	58	52	46	49	44	40	40	36	33	32	29	27	23
5	68	56	48	43	62	52	45	40	44	38	34	36	32	29	29	26	24	21
6	62	51	43	37	57	47	40	35	39	34	30	33	29	25	26	23	21	18
7	58	46	38	32	53	42	35	30	36	30	26	30	26	23	24	21	19	16
8	53	41	34	29	49	38	32	27	33	27	23	27	23	20	22	19	17	14
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	20	17	15	13
10	46	35	27	23	43	32	26	21	27	22	19	23	19	16	19	16	14	12

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	4100	4100	4100	4100
5°	4889	4118	3649	4118
10°	6120	4098	3296	4098
15°	7506	4063	3069	4063
20°	8942	4013	2922	4013
25°	9495	3950	2888	3950
30°	8139	3904	2903	3904
35°	5660	3840	2934	3840
40°	4263	3763	2925	3763
45°	3539	3649	2888	3649
50°	3170	3418	2862	3418
55°	2965	3170	2826	3170
60°	2781	2908	2796	2908
65°	2613	2651	2707	2651
70°	2452	2357	2578	2357
75°	2196	2067	2366	2067
80°	1922	1692	2039	1692
85°	1507	1235	1371	1235



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	37.5	1.4
10°-20°	120.3	4.6
20°-30°	201.9	7.7
30°-40°	228.6	8.8
40°-50°	205.0	7.9
50°-60°	165.5	6.3
60°-70°	115.3	4.4
70°-80°	60.6	2.3
80°-90°	16.2	0.6
90°-100°	17.4	0.7
100°-110°	83.0	3.2
110°-120°	199.4	7.6
120°-130°	253.9	9.7
130°-140°	271.3	10.4
140°-150°	253.7	9.7
150°-160°	204.6	7.8
160°-170°	132.1	5.1
170°-180°	45.5	1.7
0°-30°	359.8	13.8
0°-40°	588.4	22.5
0°-60°	958.9	36.7
0°-90°	1151.0	44.1
90°-120°	299.8	11.5
90°-150°	1078.7	41.3
90°-180°	1461.0	55.9
0°-180°	2611.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	381	381	381	381	381	
5°	452	381	338	381	452	47
15°	674	365	275	365	674	194
25°	800	333	243	333	800	351
35°	431	292	223	292	431	280
45°	232	240	190	240	232	184
55°	158	169	151	169	158	142
65°	103	104	106	104	103	102
75°	53	50	57	50	53	56
85°	12	10	11	10	12	15
90°	11	0	11	0	11	5
95°	14	22	14	22	14	11
105°	16	106	16	106	16	36
115°	209	199	209	199	209	193
125°	286	280	286	280	286	256
135°	353	349	353	349	353	272
145°	407	403	407	403	407	254
155°	443	444	443	444	443	204
165°	467	468	467	468	467	132
175°	477	479	477	479	477	45
180°	479	479	479	479	479	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9
2.5°	404.3	403.9	403.2	403.8	402.6	401.0	400.8	399.3	395.1	394.8	393.6
5°	452.5	451.1	450.8	450.7	448.1	444.6	437.9	437.4	428.5	424.1	418.7
7.5°	515.1	515.8	513.1	510.8	502.9	497.6	490.5	481.4	470.6	459.5	452.2
10°	559.9	566.0	558.5	553.3	548.5	539.5	528.9	515.8	502.7	487.4	475.8
12.5°	608.1	611.0	609.5	604.7	597.2	583.4	564.8	550.3	538.3	512.8	502.5
15°	673.6	684.8	677.6	661.1	661.4	648.3	624.0	597.2	583.0	560.6	530.2
17.5°	743.5	744.8	741.8	727.9	718.7	700.7	678.2	652.6	623.8	596.8	564.4
20°	780.6	779.5	773.1	765.9	750.0	736.0	711.5	682.9	645.9	619.3	584.1
22.5°	801.3	799.5	796.4	790.4	777.2	762.2	740.1	708.8	673.7	637.1	596.4
25°	799.5	801.8	802.2	800.6	796.0	787.0	769.6	744.7	709.6	662.5	620.1
27.5°	727.1	730.6	740.4	749.2	758.9	768.9	767.5	755.2	729.2	688.6	636.7
30°	654.8	647.4	665.7	688.7	704.4	732.1	747.6	748.5	734.0	699.1	648.5
32.5°	554.4	562.5	570.6	599.0	633.3	664.3	695.2	720.0	722.9	699.7	655.5
35°	430.7	440.9	455.7	470.4	507.3	539.1	593.3	640.6	678.2	683.2	656.1
37.5°	347.1	352.1	361.5	376.3	400.4	438.1	480.0	539.7	594.3	634.9	636.6
40°	303.4	304.9	315.4	326.6	346.2	377.2	415.0	467.9	533.1	589.9	613.5
42.5°	270.6	273.9	278.4	289.1	304.8	328.0	363.2	406.9	466.8	532.0	578.1
45°	232.5	236.2	239.0	246.2	257.3	273.0	297.5	337.4	382.9	450.3	512.5
47.5°	207.4	207.6	209.7	215.2	222.7	234.5	251.8	277.4	319.2	373.9	437.8
50°	189.3	192.3	193.1	197.3	203.2	211.8	226.2	248.0	282.3	330.3	389.0
52.5°	176.7	177.5	179.6	182.7	187.8	194.6	207.1	224.1	251.0	292.0	345.9
55°	158.0	158.0	160.0	162.4	165.3	171.4	179.7	192.3	212.8	244.5	289.2
57.5°	140.7	141.6	143.1	143.8	146.3	150.4	157.2	166.8	182.0	206.5	242.0
60°	129.2	130.9	130.6	132.1	134.4	137.5	143.4	151.1	164.8	184.3	214.3
62.5°	119.1	119.1	119.0	120.8	122.9	126.0	129.8	136.5	148.1	165.5	190.9
65°	102.6	102.3	103.5	104.6	105.4	107.6	110.5	116.5	124.2	137.1	156.9
67.5°	87.9	86.8	87.5	87.9	89.2	90.9	93.7	97.4	103.5	113.8	128.7
70°	77.9	76.9	76.8	77.2	78.3	79.5	81.6	85.1	90.8	99.1	110.0
72.5°	67.6	66.9	66.9	67.7	68.2	69.1	70.5	73.7	78.3	84.5	94.7
75°	52.8	52.8	52.8	53.0	53.6	54.3	55.4	57.0	60.5	65.0	71.8
77.5°	39.5	39.5	39.3	39.3	40.1	40.4	40.6	42.2	44.2	47.1	52.1
80°	31.0	30.1	30.4	31.0	31.4	31.5	32.1	32.5	34.1	35.8	39.3
82.5°	23.1	22.3	22.3	23.2	23.3	23.4	24.0	24.5	25.1	26.6	28.5
85°	12.2	12.2	12.4	12.4	12.5	12.4	12.9	13.1	13.1	14.0	15.1
87.5°	6.6	6.3	6.3	6.5	6.3	6.4	6.5	6.6	6.7	6.7	6.7
90°	10.7	10.5	10.4	10.2	10.1	9.8	9.5	9.2	8.9	8.6	7.5
92.5°	11.8	11.7	11.6	11.6	11.4	11.2	10.6	10.1	9.6	9.1	8.3
95°	13.5	13.5	13.5	13.5	13.5	13.2	12.7	12.1	11.6	11.0	10.1
97.5°	14.7	14.6	14.5	14.4	14.3	14.0	13.4	12.8	12.1	11.5	17.2
100°	15.0	14.9	14.8	14.7	14.7	14.3	13.6	13.0	12.4	11.7	24.1
102.5°	15.2	15.1	15.0	14.8	14.7	15.6	17.5	19.5	21.5	23.4	36.9
105°	15.7	15.5	15.4	15.2	15.1	21.9	36.0	49.9	63.9	78.0	85.1
107.5°	49.2	59.7	70.3	80.8	91.4	101.8	112.1	122.3	132.6	142.8	141.7
110°	97.9	109.2	120.5	131.8	143.1	150.0	152.7	155.3	157.9	160.5	159.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	167.9	170.3	172.7	175.1	177.4	178.6	178.6	178.6	178.5	178.5	177.6
115°	209.3	209.0	208.7	208.3	208.0	207.5	206.7	205.9	205.1	204.3	203.6
117.5°	232.5	232.4	232.3	232.3	232.2	231.9	231.2	230.6	230.0	229.3	229.0
120°	248.4	248.4	248.4	248.4	248.4	248.1	247.5	246.8	246.2	245.6	245.3
122.5°	264.1	264.0	264.0	263.9	263.8	263.6	263.2	262.7	262.2	261.8	261.5
125°	286.1	286.0	285.8	285.7	285.5	285.3	285.2	285.0	284.9	284.7	284.4
127.5°	307.4	307.5	307.7	307.8	308.0	307.9	307.7	307.4	307.2	307.0	306.6
130°	321.0	321.2	321.3	321.5	321.6	321.5	321.2	320.9	320.6	320.3	320.0
132.5°	333.6	333.7	334.0	334.2	334.5	334.4	334.1	333.7	333.4	333.1	332.9
135°	352.7	352.9	353.2	353.4	353.6	353.6	353.4	353.2	352.9	352.7	352.4
137.5°	370.7	370.9	371.1	371.2	371.4	371.2	370.8	370.5	370.1	369.7	369.6
140°	381.5	381.7	381.8	382.0	382.1	382.1	381.8	381.4	381.1	380.8	380.6
142.5°	391.5	391.7	392.0	392.1	392.4	392.4	392.1	391.9	391.6	391.3	391.1
145°	406.8	406.8	406.8	406.8	406.8	406.7	406.5	406.4	406.2	406.1	405.9
147.5°	418.2	418.6	418.9	419.3	419.6	419.8	419.6	419.5	419.3	419.1	419.0
150°	426.7	427.0	427.2	427.5	427.7	427.7	427.5	427.4	427.2	427.1	426.9
152.5°	433.6	434.0	434.3	434.7	435.0	435.1	434.7	434.5	434.2	434.0	433.8
155°	443.1	443.5	444.0	444.5	445.0	445.0	444.7	444.3	443.9	443.5	443.4
157.5°	451.1	451.8	452.4	453.0	453.6	453.7	453.2	452.7	452.3	451.8	451.9
160°	456.3	456.9	457.4	458.0	458.5	458.5	458.0	457.6	457.1	456.6	456.7
162.5°	461.1	461.6	462.1	462.6	463.1	463.0	462.6	462.0	461.4	460.9	461.0
165°	467.0	467.5	468.1	468.6	469.1	469.1	468.5	467.9	467.2	466.6	466.7
167.5°	471.2	471.8	472.5	473.0	473.6	473.6	473.0	472.5	471.8	471.2	471.2
170°	473.7	474.4	475.0	475.6	476.3	476.3	475.6	475.0	474.4	473.7	473.7
172.5°	475.2	475.9	476.5	477.2	477.9	477.9	477.3	476.7	476.0	475.4	475.4
175°	477.3	477.9	478.6	479.2	479.8	479.8	479.3	478.7	478.2	477.6	477.5
177.5°	477.9	478.6	479.2	479.8	480.5	480.5	480.0	479.5	479.0	478.5	478.4
180°	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9
2.5°	392.7	391.6	390.4	388.3	386.5	384.0	383.3	382.4	379.7	377.4	375.6
5°	416.7	412.3	405.8	399.9	395.1	388.6	385.0	381.1	375.6	370.6	366.5
7.5°	441.8	433.1	423.0	412.3	402.1	392.4	384.5	377.5	369.7	362.4	356.6
10°	461.8	449.2	435.1	420.0	407.1	394.6	384.0	374.9	364.9	356.2	349.0
12.5°	484.5	465.9	446.6	428.2	412.9	395.5	382.7	371.0	359.7	349.3	341.2
15°	511.4	487.7	464.9	439.6	416.4	394.6	379.5	364.6	351.6	340.9	330.5
17.5°	535.9	509.1	479.0	448.2	420.2	394.3	373.2	356.5	340.1	327.0	316.7
20°	549.8	519.4	485.2	453.3	422.2	393.5	370.2	350.3	332.6	318.7	307.1
22.5°	561.7	526.1	490.8	456.6	422.1	391.1	364.7	344.2	325.0	311.5	299.1
25°	574.2	531.5	496.1	456.1	417.5	385.3	355.8	332.6	313.4	297.5	284.8
27.5°	584.8	531.2	489.1	446.0	410.1	378.0	346.4	321.5	301.1	283.8	270.9
30°	591.8	531.9	481.9	439.3	403.1	369.9	339.2	314.1	292.7	275.2	263.0
32.5°	596.3	531.4	475.2	429.8	391.8	362.4	331.4	305.4	283.4	266.2	254.4
35°	598.9	528.1	463.7	410.3	373.8	345.1	319.1	292.2	269.1	253.0	239.7
37.5°	593.7	521.3	450.5	391.4	351.4	323.3	301.3	278.5	256.4	238.7	227.2
40°	585.6	516.9	440.1	378.1	336.0	309.0	290.3	267.8	246.0	229.2	218.5
42.5°	570.1	507.9	428.8	363.4	320.1	293.0	275.8	257.0	236.4	220.6	209.9
45°	532.3	488.3	411.7	341.3	296.6	268.5	253.4	239.7	221.1	205.8	196.5
47.5°	479.7	458.8	387.1	317.9	272.0	245.0	229.3	218.3	204.7	192.3	183.5
50°	443.3	434.6	370.4	301.9	255.6	229.2	214.0	204.1	194.3	182.0	173.9
52.5°	401.2	406.5	350.9	285.4	238.9	212.9	198.8	190.8	182.0	171.7	164.7
55°	342.0	361.3	317.3	257.6	214.0	189.3	175.9	168.9	163.7	156.1	150.0
57.5°	286.5	311.2	280.8	229.0	189.6	168.3	155.4	147.8	144.5	140.5	135.7
60°	253.6	277.9	254.8	209.8	173.3	153.0	141.6	135.1	131.7	129.0	124.9
62.5°	224.2	248.8	229.5	190.4	157.2	138.4	128.4	122.1	119.5	118.1	114.6
65°	183.8	205.0	192.1	160.0	134.2	117.6	108.5	104.1	101.7	101.2	98.9
67.5°	149.6	165.7	156.4	132.7	112.4	98.1	90.4	86.6	84.8	84.5	82.9
70°	127.1	142.3	135.1	113.7	96.2	84.9	78.3	74.9	73.8	73.7	72.7
72.5°	109.7	120.3	114.5	96.7	83.2	73.0	68.0	64.6	63.4	63.6	63.0
75°	81.2	89.1	85.8	73.4	62.6	55.9	51.9	49.7	48.6	49.1	48.3
77.5°	58.5	63.5	60.4	51.9	45.2	40.4	37.4	36.0	35.0	35.0	34.7
80°	44.1	47.1	45.4	40.2	34.7	30.7	28.2	27.3	26.8	26.5	26.4
82.5°	31.4	33.9	31.9	28.4	24.6	22.2	20.8	19.6	19.3	19.3	19.2
85°	15.8	16.8	16.1	13.9	12.4	11.2	10.5	10.0	9.6	9.7	9.4
87.5°	6.7	6.7	6.0	5.3	4.8	4.2	4.0	3.6	3.5	3.6	3.6
90°	6.5	5.5	4.4	3.5	2.7	1.9	1.1	0.3	1.1	1.9	2.7
92.5°	7.5	6.8	6.0	5.7	5.9	6.2	6.4	6.7	6.4	6.2	5.9
95°	9.3	8.4	7.5	8.7	12.0	15.2	18.5	21.7	18.5	15.2	12.0
97.5°	22.8	28.5	34.2	37.8	39.3	40.7	42.1	43.6	42.1	40.7	39.3
100°	36.4	48.8	61.1	66.5	64.9	63.3	61.7	60.1	61.7	63.3	64.9
102.5°	50.4	63.8	77.3	83.5	82.4	81.2	80.1	78.9	80.1	81.2	82.4
105°	92.2	99.3	106.4	109.6	108.7	107.8	106.9	106.1	106.9	107.8	108.7
107.5°	140.6	139.5	138.4	137.4	136.7	136.1	135.4	134.7	135.4	136.1	136.7
110°	158.8	157.9	157.0	156.3	155.7	155.0	154.4	153.8	154.4	155.0	155.7





TEST NUMBER: P332090-927

CATALOG NUMBER: S123DIW-S340D460U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	176.7	175.9	175.0	174.3	173.6	173.1	172.5	172.0	172.5	173.1	173.6
115°	202.9	202.2	201.5	200.8	200.3	199.9	199.4	198.9	199.4	199.9	200.3
117.5°	228.6	228.2	227.9	227.4	226.8	226.2	225.7	225.1	225.7	226.2	226.8
120°	245.1	244.9	244.6	244.2	243.4	242.7	242.0	241.3	242.0	242.7	243.4
122.5°	261.2	260.9	260.6	260.2	259.6	259.0	258.4	257.9	258.4	259.0	259.6
125°	284.1	283.8	283.4	283.0	282.3	281.7	281.1	280.4	281.1	281.7	282.3
127.5°	306.2	305.8	305.4	304.9	304.3	303.6	303.0	302.4	303.0	303.6	304.3
130°	319.7	319.4	319.1	318.6	318.0	317.3	316.7	316.1	316.7	317.3	318.0
132.5°	332.6	332.4	332.1	331.7	331.1	330.4	329.8	329.2	329.8	330.4	331.1
135°	352.0	351.7	351.4	351.0	350.5	350.1	349.6	349.1	349.6	350.1	350.5
137.5°	369.4	369.2	369.0	368.6	368.0	367.4	366.9	366.2	366.9	367.4	368.0
140°	380.3	380.1	379.9	379.5	379.1	378.6	378.1	377.6	378.1	378.6	379.1
142.5°	390.9	390.6	390.4	390.1	389.6	389.1	388.6	388.2	388.6	389.1	389.6
145°	405.8	405.6	405.4	405.1	404.6	404.0	403.5	402.9	403.5	404.0	404.6
147.5°	418.8	418.7	418.5	418.2	417.9	417.5	417.2	416.8	417.2	417.5	417.9
150°	426.7	426.6	426.4	426.3	426.0	425.8	425.6	425.3	425.6	425.8	426.0
152.5°	433.7	433.6	433.6	433.5	433.3	433.2	433.1	433.0	433.1	433.2	433.3
155°	443.3	443.2	443.1	443.2	443.4	443.5	443.6	443.8	443.6	443.5	443.4
157.5°	451.9	452.0	452.1	452.2	452.2	452.2	452.2	452.3	452.2	452.2	452.2
160°	456.8	456.9	456.9	457.0	457.1	457.2	457.2	457.3	457.2	457.2	457.1
162.5°	461.1	461.1	461.2	461.4	461.6	461.8	462.0	462.2	462.0	461.8	461.6
165°	466.8	466.8	466.9	467.1	467.3	467.5	467.8	468.0	467.8	467.5	467.3
167.5°	471.2	471.2	471.2	471.3	471.7	472.0	472.3	472.6	472.3	472.0	471.7
170°	473.7	473.7	473.7	473.9	474.2	474.5	474.8	475.2	474.8	474.5	474.2
172.5°	475.3	475.2	475.2	475.3	475.7	476.1	476.5	476.8	476.5	476.1	475.7
175°	477.4	477.4	477.3	477.4	477.8	478.2	478.6	479.0	478.6	478.2	477.8
177.5°	478.3	478.3	478.2	478.3	478.6	479.0	479.3	479.6	479.3	479.0	478.6
180°	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0



TEST NUMBER: P332090-927

CATALOG NUMBER: S123DIW-S340D460U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9
2.5°	374.5	373.5	372.1	369.9	368.0	365.3	365.3	365.7	365.7	365.6	365.3
5°	363.2	360.4	357.1	353.2	349.2	345.1	344.4	342.9	341.8	341.0	340.2
7.5°	351.2	346.3	341.4	336.0	331.1	327.0	324.2	321.8	320.3	318.6	317.4
10°	343.1	337.0	331.3	325.6	319.2	314.3	311.2	309.0	307.3	305.8	305.1
12.5°	333.5	326.5	320.2	314.7	307.9	302.8	299.8	298.7	296.8	293.7	292.1
15°	319.5	313.0	305.5	297.1	293.8	287.6	284.0	282.3	281.2	278.8	278.1
17.5°	307.4	299.0	290.5	284.3	278.1	273.1	271.1	269.0	267.6	265.6	265.0
20°	297.9	290.3	282.6	275.9	269.4	263.9	262.2	260.8	259.3	258.4	257.6
22.5°	288.1	280.6	274.1	267.9	261.0	257.4	255.6	254.0	252.9	252.3	251.6
25°	274.4	267.8	260.5	255.1	249.5	247.1	246.0	245.1	244.3	243.4	243.2
27.5°	262.2	254.9	249.1	243.9	240.0	238.0	236.9	236.5	236.6	236.9	237.2
30°	253.0	246.4	241.6	237.2	233.5	231.6	231.4	231.4	232.2	232.3	232.7
32.5°	244.6	239.2	234.3	230.0	227.3	226.0	226.7	226.7	227.3	227.8	228.5
35°	232.3	227.5	223.9	220.1	217.8	218.3	218.7	219.0	220.0	221.1	221.8
37.5°	220.6	216.5	212.6	209.8	208.7	209.6	210.6	211.3	212.4	213.3	214.0
40°	212.2	209.1	205.4	202.8	203.2	203.7	204.5	205.4	206.4	206.9	207.6
42.5°	204.4	201.1	198.3	196.1	196.7	197.4	197.8	198.3	199.4	200.4	200.8
45°	192.5	189.9	187.4	186.0	186.4	186.8	187.1	187.7	188.6	189.3	189.6
47.5°	179.1	177.3	175.5	174.3	174.9	174.8	175.2	176.4	176.7	177.1	178.2
50°	170.6	168.9	166.8	166.4	166.4	166.4	166.7	168.1	168.1	168.9	169.6
52.5°	161.1	160.0	158.8	158.0	157.7	157.7	158.5	159.2	159.5	160.6	161.4
55°	147.1	146.0	144.9	144.3	143.9	144.3	145.8	146.2	147.1	147.7	148.2
57.5°	132.5	131.7	130.8	130.5	130.4	130.9	131.7	132.8	133.0	134.8	135.5
60°	122.9	121.6	120.9	120.9	120.5	122.2	121.8	123.7	124.1	125.2	126.4
62.5°	113.0	111.3	111.0	111.0	111.5	112.0	112.5	113.3	114.3	115.7	116.7
65°	97.0	96.2	97.4	97.3	96.9	98.0	98.0	98.9	100.1	101.3	103.4
67.5°	82.0	81.5	81.6	81.6	82.1	82.8	83.3	84.1	85.5	86.8	88.2
70°	71.8	72.3	71.5	72.2	72.7	72.9	73.3	74.4	75.8	76.8	78.3
72.5°	61.9	61.9	61.9	62.3	62.8	63.1	63.5	64.8	66.4	67.2	68.4
75°	47.6	47.5	48.0	48.0	48.9	49.3	49.7	50.2	51.7	52.8	53.7
77.5°	34.8	35.0	34.9	35.5	35.3	35.3	36.4	37.0	37.2	39.4	39.8
80°	26.2	26.5	26.8	26.9	27.1	26.8	28.0	28.6	28.6	29.9	30.8
82.5°	18.9	19.0	19.5	19.7	19.7	20.1	20.2	20.6	21.1	21.6	22.8
85°	9.4	10.0	10.1	10.0	10.1	9.7	10.3	10.5	10.7	10.7	10.7
87.5°	3.6	4.0	4.0	4.4	4.4	4.8	4.9	4.7	4.7	5.2	4.7
90°	3.5	4.4	5.5	6.5	7.5	8.6	8.9	9.2	9.5	9.8	10.1
92.5°	5.7	6.0	6.8	7.5	8.3	9.1	9.6	10.1	10.6	11.2	11.4
95°	8.7	7.5	8.4	9.3	10.1	11.0	11.6	12.1	12.7	13.2	13.5
97.5°	37.8	34.2	28.5	22.8	17.2	11.5	12.1	12.8	13.4	14.0	14.3
100°	66.5	61.1	48.8	36.4	24.1	11.7	12.4	13.0	13.6	14.3	14.7
102.5°	83.5	77.3	63.8	50.4	36.9	23.4	21.5	19.5	17.5	15.6	14.7
105°	109.6	106.4	99.3	92.2	85.1	78.0	63.9	49.9	36.0	21.9	15.1
107.5°	137.4	138.4	139.5	140.6	141.7	142.8	132.6	122.3	112.1	101.8	91.4
110°	156.3	157.0	157.9	158.8	159.6	160.5	157.9	155.3	152.7	150.0	143.1



TEST NUMBER: P332090-927

CATALOG NUMBER: S123DIW-S340D460U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	174.3	175.0	175.9	176.7	177.6	178.5	178.5	178.6	178.6	178.6	177.4
115°	200.8	201.5	202.2	202.9	203.6	204.3	205.1	205.9	206.7	207.5	208.0
117.5°	227.4	227.9	228.2	228.6	229.0	229.3	230.0	230.6	231.2	231.9	232.2
120°	244.2	244.6	244.9	245.1	245.3	245.6	246.2	246.8	247.5	248.1	248.4
122.5°	260.2	260.6	260.9	261.2	261.5	261.8	262.2	262.7	263.2	263.6	263.8
125°	283.0	283.4	283.8	284.1	284.4	284.7	284.9	285.0	285.2	285.3	285.5
127.5°	304.9	305.4	305.8	306.2	306.6	307.0	307.2	307.4	307.7	307.9	308.0
130°	318.6	319.1	319.4	319.7	320.0	320.3	320.6	320.9	321.2	321.5	321.6
132.5°	331.7	332.1	332.4	332.6	332.9	333.1	333.4	333.7	334.1	334.4	334.5
135°	351.0	351.4	351.7	352.0	352.4	352.7	352.9	353.2	353.4	353.6	353.6
137.5°	368.6	369.0	369.2	369.4	369.6	369.7	370.1	370.5	370.8	371.2	371.4
140°	379.5	379.9	380.1	380.3	380.6	380.8	381.1	381.4	381.8	382.1	382.1
142.5°	390.1	390.4	390.6	390.9	391.1	391.3	391.6	391.9	392.1	392.4	392.4
145°	405.1	405.4	405.6	405.8	405.9	406.1	406.2	406.4	406.5	406.7	406.8
147.5°	418.2	418.5	418.7	418.8	419.0	419.1	419.3	419.5	419.6	419.8	419.6
150°	426.3	426.4	426.6	426.7	426.9	427.1	427.2	427.4	427.5	427.7	427.7
152.5°	433.5	433.6	433.6	433.7	433.8	434.0	434.2	434.5	434.7	435.1	435.0
155°	443.2	443.1	443.2	443.3	443.4	443.5	443.9	444.3	444.7	445.0	445.0
157.5°	452.2	452.1	452.0	451.9	451.9	451.8	452.3	452.7	453.2	453.7	453.6
160°	457.0	456.9	456.9	456.8	456.7	456.6	457.1	457.6	458.0	458.5	458.5
162.5°	461.4	461.2	461.1	461.1	461.0	460.9	461.4	462.0	462.6	463.0	463.1
165°	467.1	466.9	466.8	466.8	466.7	466.6	467.2	467.9	468.5	469.1	469.1
167.5°	471.3	471.2	471.2	471.2	471.2	471.2	471.8	472.5	473.0	473.6	473.6
170°	473.9	473.7	473.7	473.7	473.7	473.7	474.4	475.0	475.6	476.3	476.3
172.5°	475.3	475.2	475.2	475.3	475.4	475.4	476.0	476.7	477.3	477.9	477.9
175°	477.4	477.3	477.4	477.4	477.5	477.6	478.2	478.7	479.3	479.8	479.8
177.5°	478.3	478.2	478.3	478.3	478.4	478.5	479.0	479.5	480.0	480.5	480.5
180°	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0



TEST NUMBER: P332090-927

CATALOG NUMBER: S123DIW-S340D460U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9
2.5°	364.2	364.1	365.1	364.4	365.1	364.1	364.2	365.3	365.6	365.7	365.7
5°	339.1	339.6	337.7	337.7	337.7	339.6	339.1	340.2	341.0	341.8	342.9
7.5°	316.6	315.8	315.8	314.8	315.8	315.8	316.6	317.4	318.6	320.3	321.8
10°	302.9	301.7	301.3	301.6	301.3	301.7	302.9	305.1	305.8	307.3	309.0
12.5°	291.4	291.3	288.8	288.8	288.8	291.3	291.4	292.1	293.7	296.8	298.7
15°	278.1	274.6	274.3	275.4	274.3	274.6	278.1	278.1	278.8	281.2	282.3
17.5°	264.7	262.8	263.0	262.4	263.0	262.8	264.7	265.0	265.6	267.6	269.0
20°	257.6	256.5	256.4	255.1	256.4	256.5	257.6	257.6	258.4	259.3	260.8
22.5°	251.1	250.8	250.9	249.5	250.9	250.8	251.1	251.6	252.3	252.9	254.0
25°	243.0	244.0	243.2	243.2	243.2	244.0	243.0	243.2	243.4	244.3	245.1
27.5°	237.6	237.6	237.2	237.2	237.2	237.6	237.6	237.2	236.9	236.6	236.5
30°	233.5	233.3	233.6	233.6	233.6	233.3	233.5	232.7	232.3	232.2	231.4
32.5°	229.3	229.6	229.7	229.8	229.7	229.6	229.3	228.5	227.8	227.3	226.7
35°	222.9	223.2	223.7	223.3	223.7	223.2	222.9	221.8	221.1	220.0	219.0
37.5°	214.3	215.2	215.0	215.2	215.0	215.2	214.3	214.0	213.3	212.4	211.3
40°	207.8	208.3	208.2	208.2	208.2	208.3	207.8	207.6	206.9	206.4	205.4
42.5°	201.1	201.5	201.1	200.8	201.1	201.5	201.1	200.8	200.4	199.4	198.3
45°	190.3	189.9	190.4	189.7	190.4	189.9	190.3	189.6	189.3	188.6	187.7
47.5°	178.1	178.5	178.6	179.2	178.6	178.5	178.1	178.2	177.1	176.7	176.4
50°	170.0	171.1	171.1	170.9	171.1	171.1	170.0	169.6	168.9	168.1	168.1
52.5°	162.0	162.5	163.3	163.2	163.3	162.5	162.0	161.4	160.6	159.5	159.2
55°	149.6	150.0	150.4	150.6	150.4	150.0	149.6	148.2	147.7	147.1	146.2
57.5°	136.9	136.7	137.6	137.9	137.6	136.7	136.9	135.5	134.8	133.0	132.8
60°	127.9	127.9	129.4	129.9	129.4	127.9	127.9	126.4	125.2	124.1	123.7
62.5°	118.3	118.9	120.3	119.6	120.3	118.9	118.3	116.7	115.7	114.3	113.3
65°	104.3	105.8	105.6	106.3	105.6	105.8	104.3	103.4	101.3	100.1	98.9
67.5°	89.6	90.5	91.9	92.0	91.9	90.5	89.6	88.2	86.8	85.5	84.1
70°	79.7	80.6	81.4	81.9	81.4	80.6	79.7	78.3	76.8	75.8	74.4
72.5°	70.1	70.6	72.4	71.6	72.4	70.6	70.1	68.4	67.2	66.4	64.8
75°	55.0	56.3	57.4	56.9	57.4	56.3	55.0	53.7	52.8	51.7	50.2
77.5°	40.6	42.0	42.5	42.0	42.5	42.0	40.6	39.8	39.4	37.2	37.0
80°	32.1	31.9	33.0	32.9	33.0	31.9	32.1	30.8	29.9	28.6	28.6
82.5°	23.5	23.4	23.8	24.0	23.8	23.4	23.5	22.8	21.6	21.1	20.6
85°	11.4	12.0	11.2	11.1	11.2	12.0	11.4	10.7	10.7	10.7	10.5
87.5°	4.7	4.8	4.6	4.5	4.6	4.8	4.7	4.7	5.2	4.7	4.7
90°	10.2	10.4	10.5	10.7	10.5	10.4	10.2	10.1	9.8	9.5	9.2
92.5°	11.6	11.6	11.7	11.8	11.7	11.6	11.6	11.4	11.2	10.6	10.1
95°	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.2	12.7	12.1
97.5°	14.4	14.5	14.6	14.7	14.6	14.5	14.4	14.3	14.0	13.4	12.8
100°	14.7	14.8	14.9	15.0	14.9	14.8	14.7	14.7	14.3	13.6	13.0
102.5°	14.8	15.0	15.1	15.2	15.1	15.0	14.8	14.7	15.6	17.5	19.5
105°	15.2	15.4	15.5	15.7	15.5	15.4	15.2	15.1	21.9	36.0	49.9
107.5°	80.8	70.3	59.7	49.2	59.7	70.3	80.8	91.4	101.8	112.1	122.3
110°	131.8	120.5	109.2	97.9	109.2	120.5	131.8	143.1	150.0	152.7	155.3



TEST NUMBER: P332090-927

CATALOG NUMBER: S123DIW-S340D460U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	175.1	172.7	170.3	167.9	170.3	172.7	175.1	177.4	178.6	178.6	178.6
115°	208.3	208.7	209.0	209.3	209.0	208.7	208.3	208.0	207.5	206.7	205.9
117.5°	232.3	232.3	232.4	232.5	232.4	232.3	232.3	232.2	231.9	231.2	230.6
120°	248.4	248.4	248.4	248.4	248.4	248.4	248.4	248.4	248.1	247.5	246.8
122.5°	263.9	264.0	264.0	264.1	264.0	264.0	263.9	263.8	263.6	263.2	262.7
125°	285.7	285.8	286.0	286.1	286.0	285.8	285.7	285.5	285.3	285.2	285.0
127.5°	307.8	307.7	307.5	307.4	307.5	307.7	307.8	308.0	307.9	307.7	307.4
130°	321.5	321.3	321.2	321.0	321.2	321.3	321.5	321.6	321.5	321.2	320.9
132.5°	334.2	334.0	333.7	333.6	333.7	334.0	334.2	334.5	334.4	334.1	333.7
135°	353.4	353.2	352.9	352.7	352.9	353.2	353.4	353.6	353.6	353.4	353.2
137.5°	371.2	371.1	370.9	370.7	370.9	371.1	371.2	371.4	371.2	370.8	370.5
140°	382.0	381.8	381.7	381.5	381.7	381.8	382.0	382.1	382.1	381.8	381.4
142.5°	392.1	392.0	391.7	391.5	391.7	392.0	392.1	392.4	392.4	392.1	391.9
145°	406.8	406.8	406.8	406.8	406.8	406.8	406.8	406.8	406.7	406.5	406.4
147.5°	419.3	418.9	418.6	418.2	418.6	418.9	419.3	419.6	419.8	419.6	419.5
150°	427.5	427.2	427.0	426.7	427.0	427.2	427.5	427.7	427.7	427.5	427.4
152.5°	434.7	434.3	434.0	433.6	434.0	434.3	434.7	435.0	435.1	434.7	434.5
155°	444.5	444.0	443.5	443.1	443.5	444.0	444.5	445.0	445.0	444.7	444.3
157.5°	453.0	452.4	451.8	451.1	451.8	452.4	453.0	453.6	453.7	453.2	452.7
160°	458.0	457.4	456.9	456.3	456.9	457.4	458.0	458.5	458.5	458.0	457.6
162.5°	462.6	462.1	461.6	461.1	461.6	462.1	462.6	463.1	463.0	462.6	462.0
165°	468.6	468.1	467.5	467.0	467.5	468.1	468.6	469.1	469.1	468.5	467.9
167.5°	473.0	472.5	471.8	471.2	471.8	472.5	473.0	473.6	473.6	473.0	472.5
170°	475.6	475.0	474.4	473.7	474.4	475.0	475.6	476.3	476.3	475.6	475.0
172.5°	477.2	476.5	475.9	475.2	475.9	476.5	477.2	477.9	477.9	477.3	476.7
175°	479.2	478.6	477.9	477.3	477.9	478.6	479.2	479.8	479.8	479.3	478.7
177.5°	479.8	479.2	478.6	477.9	478.6	479.2	479.8	480.5	480.5	480.0	479.5
180°	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0



TEST NUMBER: P332090-927

CATALOG NUMBER: S123DIW-S340D460U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9
2.5°	365.3	365.3	368.0	369.9	372.1	373.5	374.5	375.6	377.4	379.7	382.4
5°	344.4	345.1	349.2	353.2	357.1	360.4	363.2	366.5	370.6	375.6	381.1
7.5°	324.2	327.0	331.1	336.0	341.4	346.3	351.2	356.6	362.4	369.7	377.5
10°	311.2	314.3	319.2	325.6	331.3	337.0	343.1	349.0	356.2	364.9	374.9
12.5°	299.8	302.8	307.9	314.7	320.2	326.5	333.5	341.2	349.3	359.7	371.0
15°	284.0	287.6	293.8	297.1	305.5	313.0	319.5	330.5	340.9	351.6	364.6
17.5°	271.1	273.1	278.1	284.3	290.5	299.0	307.4	316.7	327.0	340.1	356.5
20°	262.2	263.9	269.4	275.9	282.6	290.3	297.9	307.1	318.7	332.6	350.3
22.5°	255.6	257.4	261.0	267.9	274.1	280.6	288.1	299.1	311.5	325.0	344.2
25°	246.0	247.1	249.5	255.1	260.5	267.8	274.4	284.8	297.5	313.4	332.6
27.5°	236.9	238.0	240.0	243.9	249.1	254.9	262.2	270.9	283.8	301.1	321.5
30°	231.4	231.6	233.5	237.2	241.6	246.4	253.0	263.0	275.2	292.7	314.1
32.5°	226.7	226.0	227.3	230.0	234.3	239.2	244.6	254.4	266.2	283.4	305.4
35°	218.7	218.3	217.8	220.1	223.9	227.5	232.3	239.7	253.0	269.1	292.2
37.5°	210.6	209.6	208.7	209.8	212.6	216.5	220.6	227.2	238.7	256.4	278.5
40°	204.5	203.7	203.2	202.8	205.4	209.1	212.2	218.5	229.2	246.0	267.8
42.5°	197.8	197.4	196.7	196.1	198.3	201.1	204.4	209.9	220.6	236.4	257.0
45°	187.1	186.8	186.4	186.0	187.4	189.9	192.5	196.5	205.8	221.1	239.7
47.5°	175.2	174.8	174.9	174.3	175.5	177.3	179.1	183.5	192.3	204.7	218.3
50°	166.7	166.4	166.4	166.4	166.8	168.9	170.6	173.9	182.0	194.3	204.1
52.5°	158.5	157.7	157.7	158.0	158.8	160.0	161.1	164.7	171.7	182.0	190.8
55°	145.8	144.3	143.9	144.3	144.9	146.0	147.1	150.0	156.1	163.7	168.9
57.5°	131.7	130.9	130.4	130.5	130.8	131.7	132.5	135.7	140.5	144.5	147.8
60°	121.8	122.2	120.5	120.9	120.9	121.6	122.9	124.9	129.0	131.7	135.1
62.5°	112.5	112.0	111.5	111.0	111.0	111.3	113.0	114.6	118.1	119.5	122.1
65°	98.0	98.0	96.9	97.3	97.4	96.2	97.0	98.9	101.2	101.7	104.1
67.5°	83.3	82.8	82.1	81.6	81.6	81.5	82.0	82.9	84.5	84.8	86.6
70°	73.3	72.9	72.7	72.2	71.5	72.3	71.8	72.7	73.7	73.8	74.9
72.5°	63.5	63.1	62.8	62.3	61.9	61.9	61.9	63.0	63.6	63.4	64.6
75°	49.7	49.3	48.9	48.0	48.0	47.5	47.6	48.3	49.1	48.6	49.7
77.5°	36.4	35.3	35.3	35.5	34.9	35.0	34.8	34.7	35.0	35.0	36.0
80°	28.0	26.8	27.1	26.9	26.8	26.5	26.2	26.4	26.5	26.8	27.3
82.5°	20.2	20.1	19.7	19.7	19.5	19.0	18.9	19.2	19.3	19.3	19.6
85°	10.3	9.7	10.1	10.0	10.1	10.0	9.4	9.4	9.7	9.6	10.0
87.5°	4.9	4.8	4.4	4.4	4.0	4.0	3.6	3.6	3.6	3.5	3.6
90°	8.9	8.6	7.5	6.5	5.5	4.4	3.5	2.7	1.9	1.1	0.3
92.5°	9.6	9.1	8.3	7.5	6.8	6.0	5.7	5.9	6.2	6.4	6.7
95°	11.6	11.0	10.1	9.3	8.4	7.5	8.7	12.0	15.2	18.5	21.7
97.5°	12.1	11.5	17.2	22.8	28.5	34.2	37.8	39.3	40.7	42.1	43.6
100°	12.4	11.7	24.1	36.4	48.8	61.1	66.5	64.9	63.3	61.7	60.1
102.5°	21.5	23.4	36.9	50.4	63.8	77.3	83.5	82.4	81.2	80.1	78.9
105°	63.9	78.0	85.1	92.2	99.3	106.4	109.6	108.7	107.8	106.9	106.1
107.5°	132.6	142.8	141.7	140.6	139.5	138.4	137.4	136.7	136.1	135.4	134.7
110°	157.9	160.5	159.6	158.8	157.9	157.0	156.3	155.7	155.0	154.4	153.8



TEST NUMBER: P332090-927

CATALOG NUMBER: S123DIW-S340D460U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	178.5	178.5	177.6	176.7	175.9	175.0	174.3	173.6	173.1	172.5	172.0
115°	205.1	204.3	203.6	202.9	202.2	201.5	200.8	200.3	199.9	199.4	198.9
117.5°	230.0	229.3	229.0	228.6	228.2	227.9	227.4	226.8	226.2	225.7	225.1
120°	246.2	245.6	245.3	245.1	244.9	244.6	244.2	243.4	242.7	242.0	241.3
122.5°	262.2	261.8	261.5	261.2	260.9	260.6	260.2	259.6	259.0	258.4	257.9
125°	284.9	284.7	284.4	284.1	283.8	283.4	283.0	282.3	281.7	281.1	280.4
127.5°	307.2	307.0	306.6	306.2	305.8	305.4	304.9	304.3	303.6	303.0	302.4
130°	320.6	320.3	320.0	319.7	319.4	319.1	318.6	318.0	317.3	316.7	316.1
132.5°	333.4	333.1	332.9	332.6	332.4	332.1	331.7	331.1	330.4	329.8	329.2
135°	352.9	352.7	352.4	352.0	351.7	351.4	351.0	350.5	350.1	349.6	349.1
137.5°	370.1	369.7	369.6	369.4	369.2	369.0	368.6	368.0	367.4	366.9	366.2
140°	381.1	380.8	380.6	380.3	380.1	379.9	379.5	379.1	378.6	378.1	377.6
142.5°	391.6	391.3	391.1	390.9	390.6	390.4	390.1	389.6	389.1	388.6	388.2
145°	406.2	406.1	405.9	405.8	405.6	405.4	405.1	404.6	404.0	403.5	402.9
147.5°	419.3	419.1	419.0	418.8	418.7	418.5	418.2	417.9	417.5	417.2	416.8
150°	427.2	427.1	426.9	426.7	426.6	426.4	426.3	426.0	425.8	425.6	425.3
152.5°	434.2	434.0	433.8	433.7	433.6	433.6	433.5	433.3	433.2	433.1	433.0
155°	443.9	443.5	443.4	443.3	443.2	443.1	443.2	443.4	443.5	443.6	443.8
157.5°	452.3	451.8	451.9	451.9	452.0	452.1	452.2	452.2	452.2	452.2	452.3
160°	457.1	456.6	456.7	456.8	456.9	456.9	457.0	457.1	457.2	457.2	457.3
162.5°	461.4	460.9	461.0	461.1	461.1	461.2	461.4	461.6	461.8	462.0	462.2
165°	467.2	466.6	466.7	466.8	466.8	466.9	467.1	467.3	467.5	467.8	468.0
167.5°	471.8	471.2	471.2	471.2	471.2	471.2	471.3	471.7	472.0	472.3	472.6
170°	474.4	473.7	473.7	473.7	473.7	473.7	473.9	474.2	474.5	474.8	475.2
172.5°	476.0	475.4	475.4	475.3	475.2	475.2	475.3	475.7	476.1	476.5	476.8
175°	478.2	477.6	477.5	477.4	477.4	477.3	477.4	477.8	478.2	478.6	479.0
177.5°	479.0	478.5	478.4	478.3	478.3	478.2	478.3	478.6	479.0	479.3	479.6
180°	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0



TEST NUMBER: P332090-927

CATALOG NUMBER: S123DIW-S340D460U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9
2.5°	383.3	384.0	386.5	388.3	390.4	391.6	392.7	393.6	394.8	395.1	399.3
5°	385.0	388.6	395.1	399.9	405.8	412.3	416.7	418.7	424.1	428.5	437.4
7.5°	384.5	392.4	402.1	412.3	423.0	433.1	441.8	452.2	459.5	470.6	481.4
10°	384.0	394.6	407.1	420.0	435.1	449.2	461.8	475.8	487.4	502.7	515.8
12.5°	382.7	395.5	412.9	428.2	446.6	465.9	484.5	502.5	512.8	538.3	550.3
15°	379.5	394.6	416.4	439.6	464.9	487.7	511.4	530.2	560.6	583.0	597.2
17.5°	373.2	394.3	420.2	448.2	479.0	509.1	535.9	564.4	596.8	623.8	652.6
20°	370.2	393.5	422.2	453.3	485.2	519.4	549.8	584.1	619.3	645.9	682.9
22.5°	364.7	391.1	422.1	456.6	490.8	526.1	561.7	596.4	637.1	673.7	708.8
25°	355.8	385.3	417.5	456.1	496.1	531.5	574.2	620.1	662.5	709.6	744.7
27.5°	346.4	378.0	410.1	446.0	489.1	531.2	584.8	636.7	688.6	729.2	755.2
30°	339.2	369.9	403.1	439.3	481.9	531.9	591.8	648.5	699.1	734.0	748.5
32.5°	331.4	362.4	391.8	429.8	475.2	531.4	596.3	655.5	699.7	722.9	720.0
35°	319.1	345.1	373.8	410.3	463.7	528.1	598.9	656.1	683.2	678.2	640.6
37.5°	301.3	323.3	351.4	391.4	450.5	521.3	593.7	636.6	634.9	594.3	539.7
40°	290.3	309.0	336.0	378.1	440.1	516.9	585.6	613.5	589.9	533.1	467.9
42.5°	275.8	293.0	320.1	363.4	428.8	507.9	570.1	578.1	532.0	466.8	406.9
45°	253.4	268.5	296.6	341.3	411.7	488.3	532.3	512.5	450.3	382.9	337.4
47.5°	229.3	245.0	272.0	317.9	387.1	458.8	479.7	437.8	373.9	319.2	277.4
50°	214.0	229.2	255.6	301.9	370.4	434.6	443.3	389.0	330.3	282.3	248.0
52.5°	198.8	212.9	238.9	285.4	350.9	406.5	401.2	345.9	292.0	251.0	224.1
55°	175.9	189.3	214.0	257.6	317.3	361.3	342.0	289.2	244.5	212.8	192.3
57.5°	155.4	168.3	189.6	229.0	280.8	311.2	286.5	242.0	206.5	182.0	166.8
60°	141.6	153.0	173.3	209.8	254.8	277.9	253.6	214.3	184.3	164.8	151.1
62.5°	128.4	138.4	157.2	190.4	229.5	248.8	224.2	190.9	165.5	148.1	136.5
65°	108.5	117.6	134.2	160.0	192.1	205.0	183.8	156.9	137.1	124.2	116.5
67.5°	90.4	98.1	112.4	132.7	156.4	165.7	149.6	128.7	113.8	103.5	97.4
70°	78.3	84.9	96.2	113.7	135.1	142.3	127.1	110.0	99.1	90.8	85.1
72.5°	68.0	73.0	83.2	96.7	114.5	120.3	109.7	94.7	84.5	78.3	73.7
75°	51.9	55.9	62.6	73.4	85.8	89.1	81.2	71.8	65.0	60.5	57.0
77.5°	37.4	40.4	45.2	51.9	60.4	63.5	58.5	52.1	47.1	44.2	42.2
80°	28.2	30.7	34.7	40.2	45.4	47.1	44.1	39.3	35.8	34.1	32.5
82.5°	20.8	22.2	24.6	28.4	31.9	33.9	31.4	28.5	26.6	25.1	24.5
85°	10.5	11.2	12.4	13.9	16.1	16.8	15.8	15.1	14.0	13.1	13.1
87.5°	4.0	4.2	4.8	5.3	6.0	6.7	6.7	6.7	6.7	6.7	6.6
90°	1.1	1.9	2.7	3.5	4.4	5.5	6.5	7.5	8.6	8.9	9.2
92.5°	6.4	6.2	5.9	5.7	6.0	6.8	7.5	8.3	9.1	9.6	10.1
95°	18.5	15.2	12.0	8.7	7.5	8.4	9.3	10.1	11.0	11.6	12.1
97.5°	42.1	40.7	39.3	37.8	34.2	28.5	22.8	17.2	11.5	12.1	12.8
100°	61.7	63.3	64.9	66.5	61.1	48.8	36.4	24.1	11.7	12.4	13.0
102.5°	80.1	81.2	82.4	83.5	77.3	63.8	50.4	36.9	23.4	21.5	19.5
105°	106.9	107.8	108.7	109.6	106.4	99.3	92.2	85.1	78.0	63.9	49.9
107.5°	135.4	136.1	136.7	137.4	138.4	139.5	140.6	141.7	142.8	132.6	122.3
110°	154.4	155.0	155.7	156.3	157.0	157.9	158.8	159.6	160.5	157.9	155.3





TEST NUMBER: P332090-927

CATALOG NUMBER: S123DIW-S340D460U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	172.5	173.1	173.6	174.3	175.0	175.9	176.7	177.6	178.5	178.5	178.6
115°	199.4	199.9	200.3	200.8	201.5	202.2	202.9	203.6	204.3	205.1	205.9
117.5°	225.7	226.2	226.8	227.4	227.9	228.2	228.6	229.0	229.3	230.0	230.6
120°	242.0	242.7	243.4	244.2	244.6	244.9	245.1	245.3	245.6	246.2	246.8
122.5°	258.4	259.0	259.6	260.2	260.6	260.9	261.2	261.5	261.8	262.2	262.7
125°	281.1	281.7	282.3	283.0	283.4	283.8	284.1	284.4	284.7	284.9	285.0
127.5°	303.0	303.6	304.3	304.9	305.4	305.8	306.2	306.6	307.0	307.2	307.4
130°	316.7	317.3	318.0	318.6	319.1	319.4	319.7	320.0	320.3	320.6	320.9
132.5°	329.8	330.4	331.1	331.7	332.1	332.4	332.6	332.9	333.1	333.4	333.7
135°	349.6	350.1	350.5	351.0	351.4	351.7	352.0	352.4	352.7	352.9	353.2
137.5°	366.9	367.4	368.0	368.6	369.0	369.2	369.4	369.6	369.7	370.1	370.5
140°	378.1	378.6	379.1	379.5	379.9	380.1	380.3	380.6	380.8	381.1	381.4
142.5°	388.6	389.1	389.6	390.1	390.4	390.6	390.9	391.1	391.3	391.6	391.9
145°	403.5	404.0	404.6	405.1	405.4	405.6	405.8	405.9	406.1	406.2	406.4
147.5°	417.2	417.5	417.9	418.2	418.5	418.7	418.8	419.0	419.1	419.3	419.5
150°	425.6	425.8	426.0	426.3	426.4	426.6	426.7	426.9	427.1	427.2	427.4
152.5°	433.1	433.2	433.3	433.5	433.6	433.6	433.7	433.8	434.0	434.2	434.5
155°	443.6	443.5	443.4	443.2	443.1	443.2	443.3	443.4	443.5	443.9	444.3
157.5°	452.2	452.2	452.2	452.2	452.1	452.0	451.9	451.9	451.8	452.3	452.7
160°	457.2	457.2	457.1	457.0	456.9	456.9	456.8	456.7	456.6	457.1	457.6
162.5°	462.0	461.8	461.6	461.4	461.2	461.1	461.1	461.0	460.9	461.4	462.0
165°	467.8	467.5	467.3	467.1	466.9	466.8	466.8	466.7	466.6	467.2	467.9
167.5°	472.3	472.0	471.7	471.3	471.2	471.2	471.2	471.2	471.2	471.8	472.5
170°	474.8	474.5	474.2	473.9	473.7	473.7	473.7	473.7	473.7	474.4	475.0
172.5°	476.5	476.1	475.7	475.3	475.2	475.2	475.3	475.4	475.4	476.0	476.7
175°	478.6	478.2	477.8	477.4	477.3	477.4	477.4	477.5	477.6	478.2	478.7
177.5°	479.3	479.0	478.6	478.3	478.2	478.3	478.3	478.4	478.5	479.0	479.5
180°	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0	479.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	380.9	380.9	380.9	380.9	380.9	380.9	380.9
2.5°	400.8	401.0	402.6	403.8	403.2	403.9	404.3
5°	437.9	444.6	448.1	450.7	450.8	451.1	452.5
7.5°	490.5	497.6	502.9	510.8	513.1	515.8	515.1
10°	528.9	539.5	548.5	553.3	558.5	566.0	559.9
12.5°	564.8	583.4	597.2	604.7	609.5	611.0	608.1
15°	624.0	648.3	661.4	661.1	677.6	684.8	673.6
17.5°	678.2	700.7	718.7	727.9	741.8	744.8	743.5
20°	711.5	736.0	750.0	765.9	773.1	779.5	780.6
22.5°	740.1	762.2	777.2	790.4	796.4	799.5	801.3
25°	769.6	787.0	796.0	800.6	802.2	801.8	799.5
27.5°	767.5	768.9	758.9	749.2	740.4	730.6	727.1
30°	747.6	732.1	704.4	688.7	665.7	647.4	654.8
32.5°	695.2	664.3	633.3	599.0	570.6	562.5	554.4
35°	593.3	539.1	507.3	470.4	455.7	440.9	430.7
37.5°	480.0	438.1	400.4	376.3	361.5	352.1	347.1
40°	415.0	377.2	346.2	326.6	315.4	304.9	303.4
42.5°	363.2	328.0	304.8	289.1	278.4	273.9	270.6
45°	297.5	273.0	257.3	246.2	239.0	236.2	232.5
47.5°	251.8	234.5	222.7	215.2	209.7	207.6	207.4
50°	226.2	211.8	203.2	197.3	193.1	192.3	189.3
52.5°	207.1	194.6	187.8	182.7	179.6	177.5	176.7
55°	179.7	171.4	165.3	162.4	160.0	158.0	158.0
57.5°	157.2	150.4	146.3	143.8	143.1	141.6	140.7
60°	143.4	137.5	134.4	132.1	130.6	130.9	129.2
62.5°	129.8	126.0	122.9	120.8	119.0	119.1	119.1
65°	110.5	107.6	105.4	104.6	103.5	102.3	102.6
67.5°	93.7	90.9	89.2	87.9	87.5	86.8	87.9
70°	81.6	79.5	78.3	77.2	76.8	76.9	77.9
72.5°	70.5	69.1	68.2	67.7	66.9	66.9	67.6
75°	55.4	54.3	53.6	53.0	52.8	52.8	52.8
77.5°	40.6	40.4	40.1	39.3	39.3	39.5	39.5
80°	32.1	31.5	31.4	31.0	30.4	30.1	31.0
82.5°	24.0	23.4	23.3	23.2	22.3	22.3	23.1
85°	12.9	12.4	12.5	12.4	12.4	12.2	12.2
87.5°	6.5	6.4	6.3	6.5	6.3	6.3	6.6
90°	9.5	9.8	10.1	10.2	10.4	10.5	10.7
92.5°	10.6	11.2	11.4	11.6	11.6	11.7	11.8
95°	12.7	13.2	13.5	13.5	13.5	13.5	13.5
97.5°	13.4	14.0	14.3	14.4	14.5	14.6	14.7
100°	13.6	14.3	14.7	14.7	14.8	14.9	15.0
102.5°	17.5	15.6	14.7	14.8	15.0	15.1	15.2
105°	36.0	21.9	15.1	15.2	15.4	15.5	15.7
107.5°	112.1	101.8	91.4	80.8	70.3	59.7	49.2
110°	152.7	150.0	143.1	131.8	120.5	109.2	97.9



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	178.6	178.6	177.4	175.1	172.7	170.3	167.9
115°	206.7	207.5	208.0	208.3	208.7	209.0	209.3
117.5°	231.2	231.9	232.2	232.3	232.3	232.4	232.5
120°	247.5	248.1	248.4	248.4	248.4	248.4	248.4
122.5°	263.2	263.6	263.8	263.9	264.0	264.0	264.1
125°	285.2	285.3	285.5	285.7	285.8	286.0	286.1
127.5°	307.7	307.9	308.0	307.8	307.7	307.5	307.4
130°	321.2	321.5	321.6	321.5	321.3	321.2	321.0
132.5°	334.1	334.4	334.5	334.2	334.0	333.7	333.6
135°	353.4	353.6	353.6	353.4	353.2	352.9	352.7
137.5°	370.8	371.2	371.4	371.2	371.1	370.9	370.7
140°	381.8	382.1	382.1	382.0	381.8	381.7	381.5
142.5°	392.1	392.4	392.4	392.1	392.0	391.7	391.5
145°	406.5	406.7	406.8	406.8	406.8	406.8	406.8
147.5°	419.6	419.8	419.6	419.3	418.9	418.6	418.2
150°	427.5	427.7	427.7	427.5	427.2	427.0	426.7
152.5°	434.7	435.1	435.0	434.7	434.3	434.0	433.6
155°	444.7	445.0	445.0	444.5	444.0	443.5	443.1
157.5°	453.2	453.7	453.6	453.0	452.4	451.8	451.1
160°	458.0	458.5	458.5	458.0	457.4	456.9	456.3
162.5°	462.6	463.0	463.1	462.6	462.1	461.6	461.1
165°	468.5	469.1	469.1	468.6	468.1	467.5	467.0
167.5°	473.0	473.6	473.6	473.0	472.5	471.8	471.2
170°	475.6	476.3	476.3	475.6	475.0	474.4	473.7
172.5°	477.3	477.9	477.9	477.2	476.5	475.9	475.2
175°	479.3	479.8	479.8	479.2	478.6	477.9	477.3
177.5°	480.0	480.5	480.5	479.8	479.2	478.6	477.9
180°	479.0	479.0	479.0	479.0	479.0	479.0	479.0

(END OF REPORT)