

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: P331885-927

Luminaire Tested: **S123DIP-S340D805U927-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331885-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-17,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIP-S340D805U927-4F0-1E-UDD-A4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 805 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3453.9 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Indirect

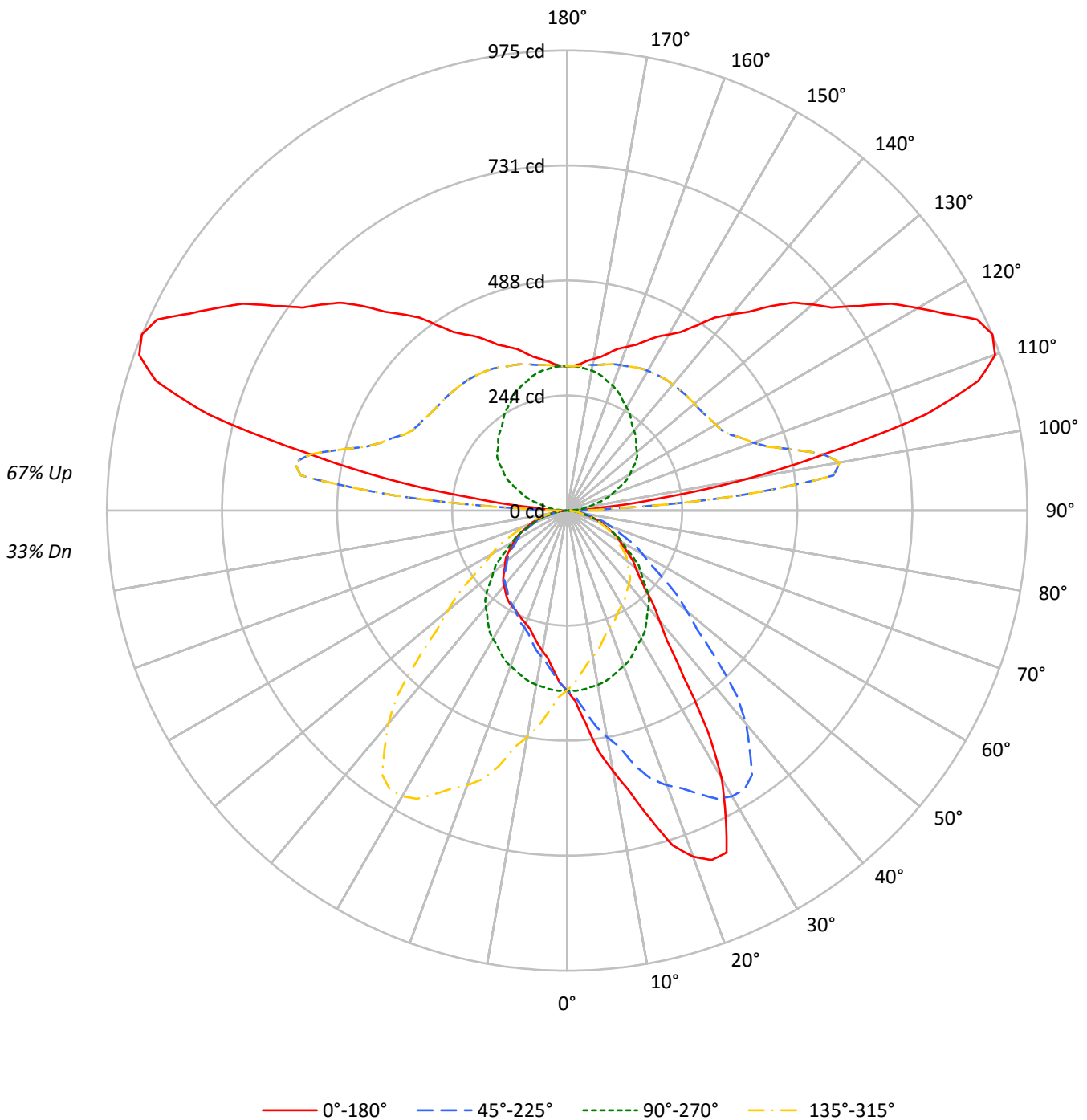
Input Watts (W): 31.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	33
1	94	90	86	83	85	81	78	75	65	63	61	50	49	47	36	36	35	28
2	86	79	73	68	77	71	66	62	57	54	51	44	42	40	32	31	30	24
3	78	69	62	57	70	63	57	52	51	46	43	39	36	34	29	27	25	21
4	72	61	54	48	64	56	49	44	45	40	36	35	32	29	26	24	22	18
5	66	55	47	41	59	50	43	38	40	35	31	31	28	25	23	21	19	16
6	61	49	41	36	54	44	38	33	36	31	27	28	25	22	21	19	17	14
7	56	44	36	31	50	40	33	29	33	28	24	26	22	19	19	17	15	12
8	52	40	32	27	47	36	30	25	30	25	21	23	20	17	18	15	13	11
9	48	36	29	24	43	33	27	22	27	22	19	22	18	15	16	14	12	10
10	45	33	26	22	41	30	24	20	25	20	17	20	16	14	15	13	11	9

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	1.1
10°-20°	120.3	3.5
20°-30°	201.9	5.8
30°-40°	228.6	6.6
40°-50°	205.0	5.9
50°-60°	165.5	4.8
60°-70°	115.3	3.3
70°-80°	60.6	1.8
80°-90°	17.2	0.5
90°-100°	170.3	4.9
100°-110°	482.1	14.0
110°-120°	474.3	13.7
120°-130°	378.3	11.0
130°-140°	298.3	8.6
140°-150°	222.6	6.4
150°-160°	155.2	4.5
160°-170°	91.2	2.6
170°-180°	29.7	0.9
0°-30°	359.8	10.4
0°-40°	588.4	17.0
0°-60°	958.9	27.8
0°-90°	1152.0	33.4
90°-120°	1126.7	32.6
90°-150°	2025.9	58.7
90°-180°	2302.0	66.6
0°-180°	3453.9	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°	18	1	18	1	18	10
95°	72	21	72	21	72	129
105°	788	72	788	72	788	777
115°	958	127	958	127	958	931
125°	756	176	756	176	756	685
135°	612	207	612	207	612	475
145°	479	236	479	236	479	304
155°	397	268	397	268	397	185
165°	346	293	346	293	346	99
175°	312	305	312	305	312	30
180°	306	306	306	306	306	



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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°	8.0	7.8	7.8	7.9	7.8	7.8	7.8	7.8	7.8	8.1	7.9
90°	18.0	18.6	18.0	17.3	18.0	16.7	16.1	15.4	14.9	15.4	13.6
92.5°	29.9	31.0	30.3	32.2	33.4	36.5	41.4	52.1	71.9	95.2	104.8
95°	71.9	74.3	78.7	84.2	96.0	118.3	151.1	223.0	297.9	367.3	327.0
97.5°	195.6	200.9	217.6	245.5	291.2	365.3	445.2	555.8	609.0	569.2	416.7
100°	388.3	387.7	411.9	457.1	519.6	607.6	680.0	730.2	708.5	586.5	396.4
102.5°	569.7	583.9	604.1	639.9	688.6	744.3	786.6	788.1	713.5	554.3	366.6
105°	787.8	790.9	810.7	834.2	862.8	878.8	867.0	805.2	675.7	498.0	330.1
107.5°	913.4	919.1	925.8	933.7	933.2	911.2	856.9	756.4	609.6	448.1	306.8
110°	965.0	966.1	967.4	962.4	945.2	901.7	823.7	709.8	567.9	419.9	297.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	975.3	975.1	970.4	955.1	923.3	867.6	780.1	663.7	531.8	401.1	292.9
115°	958.1	955.1	942.6	915.4	868.9	801.5	710.3	602.6	488.1	380.9	291.1
117.5°	903.4	899.1	881.3	850.1	801.7	733.2	651.4	558.4	461.7	369.0	292.2
120°	857.8	854.1	839.2	804.5	755.6	693.1	618.7	535.1	447.8	363.5	294.2
122.5°	815.2	810.5	794.1	762.9	719.5	661.3	592.5	516.8	436.4	360.1	297.6
125°	755.6	751.2	735.8	708.5	668.9	619.3	559.9	492.3	421.8	355.5	302.9
127.5°	706.5	702.6	688.6	665.3	630.0	584.9	531.2	471.1	408.9	353.3	308.8
130°	678.8	673.8	660.8	638.6	605.7	563.6	513.4	457.7	402.0	351.8	312.8
132.5°	651.6	648.1	636.6	614.3	583.4	543.3	496.6	445.3	395.5	351.3	315.8
135°	612.5	608.2	597.1	578.5	548.1	512.8	472.5	428.6	387.1	350.5	320.2
137.5°	571.3	568.5	559.0	540.2	514.7	484.1	449.4	413.4	379.8	349.2	323.2
140°	542.6	543.2	533.2	515.9	492.3	465.7	436.0	404.4	375.3	348.7	325.2
142.5°	515.8	516.4	507.5	492.1	472.1	448.9	423.1	396.0	371.4	347.7	326.6
145°	478.7	477.5	472.5	459.5	444.1	426.1	406.3	385.9	366.1	346.2	327.6
147.5°	448.3	447.8	443.1	434.3	422.6	409.8	393.8	377.6	360.8	343.9	327.6
150°	430.5	430.5	426.7	419.9	410.6	398.9	385.9	371.6	357.4	341.9	327.6
152.5°	415.6	415.6	413.4	407.0	399.7	389.9	378.4	366.1	353.4	339.4	326.1
155°	397.0	396.4	395.1	390.1	384.6	377.2	367.9	358.0	347.5	335.1	324.6
157.5°	380.0	380.2	379.1	375.4	370.6	364.8	357.6	349.3	340.8	331.2	322.4
160°	369.2	369.7	369.7	366.1	361.7	357.4	351.2	344.4	336.3	328.3	321.5
162.5°	359.3	359.8	359.8	356.6	353.8	349.9	344.2	338.4	331.8	325.3	319.5
165°	346.2	346.2	346.8	344.4	341.9	338.8	334.5	330.7	325.7	320.8	316.5
167.5°	333.8	333.8	334.5	332.7	331.6	329.4	326.9	324.0	320.0	316.4	313.5
170°	326.4	326.4	327.0	325.7	325.2	323.9	321.5	319.6	316.5	313.4	311.6
172.5°	319.5	320.0	321.1	319.8	319.7	318.9	317.0	315.6	313.0	310.9	310.1
175°	311.6	312.1	312.8	312.1	312.1	312.1	310.9	310.3	309.0	307.8	307.8
177.5°	307.0	307.0	307.9	307.4	307.9	307.9	307.4	307.0	306.4	305.9	306.4
180°	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9



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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°	7.8	7.6	6.8	5.9	5.4	4.6	4.4	3.8	3.7	4.0	4.2
90°	11.8	9.9	8.1	6.8	5.5	3.7	2.5	1.3	2.5	3.7	5.5
92.5°	78.7	52.0	35.8	26.6	21.5	16.6	11.4	7.7	11.4	16.6	21.5
95°	225.5	133.2	80.5	56.3	40.2	29.7	22.9	21.1	22.9	29.7	40.2
97.5°	247.4	143.3	93.0	66.9	51.0	41.9	36.5	35.9	36.5	41.9	51.0
100°	233.5	141.8	98.5	74.3	59.5	50.8	46.4	45.9	46.4	50.8	59.5
102.5°	221.6	143.8	104.9	82.8	69.4	61.2	57.4	56.2	57.4	61.2	69.4
105°	213.0	149.2	115.8	96.6	84.8	77.4	73.7	71.9	73.7	77.4	84.8
107.5°	212.5	159.4	130.1	112.3	101.2	93.9	90.3	88.4	90.3	93.9	101.2
110°	214.9	167.9	140.0	122.6	112.1	105.3	102.2	100.4	102.2	105.3	112.1



TEST NUMBER: P331885-927

CATALOG NUMBER: S123DIP-S340D805U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	219.8	176.3	150.4	133.6	123.0	116.2	113.1	111.2	113.1	116.2	123.0
115°	227.9	190.1	166.6	149.9	139.3	133.2	129.4	127.0	129.4	133.2	139.3
117.5°	238.6	204.9	181.6	166.1	154.3	148.6	145.5	142.7	145.5	148.6	154.3
120°	246.5	214.3	192.0	176.5	164.8	158.5	155.4	153.6	155.4	158.5	164.8
122.5°	253.9	224.2	202.4	185.9	174.7	167.9	164.9	163.0	164.9	167.9	174.7
125°	265.7	238.4	216.7	200.0	188.3	181.5	177.8	176.5	177.8	181.5	188.3
127.5°	275.4	250.8	229.9	213.2	200.2	193.2	188.6	186.8	188.6	193.2	200.2
130°	281.8	258.3	237.8	221.1	208.1	200.7	195.1	193.2	195.1	200.7	208.1
132.5°	287.7	264.7	244.8	228.5	215.6	206.6	200.6	198.2	200.6	206.6	215.6
135°	295.4	274.3	255.2	238.4	225.5	216.2	209.4	206.8	209.4	216.2	225.5
137.5°	301.1	281.1	262.6	247.1	234.2	224.3	217.6	215.0	217.6	224.3	234.2
140°	304.1	285.5	267.5	252.1	239.7	229.8	223.6	220.5	223.6	229.8	239.7
142.5°	307.0	289.0	271.5	257.1	244.6	235.8	229.0	226.4	229.0	235.8	244.6
145°	310.3	293.6	277.5	263.2	252.7	243.4	237.8	236.0	237.8	243.4	252.7
147.5°	312.3	297.3	282.6	270.4	260.2	252.2	246.8	245.7	246.8	252.2	260.2
150°	312.8	299.8	285.5	274.3	265.7	257.6	252.7	252.1	252.7	257.6	265.7
152.5°	313.8	301.3	289.0	278.3	270.7	263.6	258.6	258.5	258.6	263.6	270.7
155°	314.0	304.1	293.6	284.9	278.1	271.9	268.2	268.2	268.2	271.9	278.1
157.5°	314.7	305.7	297.3	290.6	284.8	279.3	276.3	275.8	276.3	279.3	284.8
160°	314.7	307.2	299.8	293.6	289.2	284.3	281.8	281.8	281.8	284.3	289.2
162.5°	314.1	307.7	301.3	296.0	292.2	288.3	286.3	286.3	286.3	288.3	292.2
165°	312.8	308.4	303.5	299.1	296.7	293.6	292.3	292.9	292.3	293.6	296.7
167.5°	311.8	308.3	304.8	302.0	300.2	297.9	297.3	298.0	297.3	297.9	300.2
170°	310.3	307.8	304.8	303.5	302.2	300.4	299.8	301.0	299.8	300.4	302.2
172.5°	309.8	307.8	305.2	304.4	303.7	302.4	302.2	303.0	302.2	302.4	303.7
175°	308.4	307.2	305.9	305.3	305.3	304.1	304.8	305.3	304.8	304.1	305.3
177.5°	307.4	306.4	305.9	305.9	305.9	305.5	305.9	306.4	305.9	305.5	305.9
180°	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9



TEST NUMBER: P331885-927

CATALOG NUMBER: S123DIP-S340D805U927-4F0-1E-UDD-A4

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°	4.3	4.7	4.9	5.5	5.7	6.2	6.1	5.9	6.0	6.6	6.3
90°	6.8	8.1	9.9	11.8	13.6	15.4	14.9	15.4	16.1	16.7	18.0
92.5°	26.6	35.8	52.0	78.7	104.8	95.2	71.9	52.1	41.4	36.5	33.4
95°	56.3	80.5	133.2	225.5	327.0	367.3	297.9	223.0	151.1	118.3	96.0
97.5°	66.9	93.0	143.3	247.4	416.7	569.2	609.0	555.8	445.2	365.3	291.2
100°	74.3	98.5	141.8	233.5	396.4	586.5	708.5	730.2	680.0	607.6	519.6
102.5°	82.8	104.9	143.8	221.6	366.6	554.3	713.5	788.1	786.6	744.3	688.6
105°	96.6	115.8	149.2	213.0	330.1	498.0	675.7	805.2	867.0	878.8	862.8
107.5°	112.3	130.1	159.4	212.5	306.8	448.1	609.6	756.4	856.9	911.2	933.2
110°	122.6	140.0	167.9	214.9	297.9	419.9	567.9	709.8	823.7	901.7	945.2



TEST NUMBER: P331885-927

CATALOG NUMBER: S123DIP-S340D805U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	133.6	150.4	176.3	219.8	292.9	401.1	531.8	663.7	780.1	867.6	923.3
115°	149.9	166.6	190.1	227.9	291.1	380.9	488.1	602.6	710.3	801.5	868.9
117.5°	166.1	181.6	204.9	238.6	292.2	369.0	461.7	558.4	651.4	733.2	801.7
120°	176.5	192.0	214.3	246.5	294.2	363.5	447.8	535.1	618.7	693.1	755.6
122.5°	185.9	202.4	224.2	253.9	297.6	360.1	436.4	516.8	592.5	661.3	719.5
125°	200.0	216.7	238.4	265.7	302.9	355.5	421.8	492.3	559.9	619.3	668.9
127.5°	213.2	229.9	250.8	275.4	308.8	353.3	408.9	471.1	531.2	584.9	630.0
130°	221.1	237.8	258.3	281.8	312.8	351.8	402.0	457.7	513.4	563.6	605.7
132.5°	228.5	244.8	264.7	287.7	315.8	351.3	395.5	445.3	496.6	543.3	583.4
135°	238.4	255.2	274.3	295.4	320.2	350.5	387.1	428.6	472.5	512.8	548.1
137.5°	247.1	262.6	281.1	301.1	323.2	349.2	379.8	413.4	449.4	484.1	514.7
140°	252.1	267.5	285.5	304.1	325.2	348.7	375.3	404.4	436.0	465.7	492.3
142.5°	257.1	271.5	289.0	307.0	326.6	347.7	371.4	396.0	423.1	448.9	472.1
145°	263.2	277.5	293.6	310.3	327.6	346.2	366.1	385.9	406.3	426.1	444.1
147.5°	270.4	282.6	297.3	312.3	327.6	343.9	360.8	377.6	393.8	409.8	422.6
150°	274.3	285.5	299.8	312.8	327.6	341.9	357.4	371.6	385.9	398.9	410.6
152.5°	278.3	289.0	301.3	313.8	326.1	339.4	353.4	366.1	378.4	389.9	399.7
155°	284.9	293.6	304.1	314.0	324.6	335.1	347.5	358.0	367.9	377.2	384.6
157.5°	290.6	297.3	305.7	314.7	322.4	331.2	340.8	349.3	357.6	364.8	370.6
160°	293.6	299.8	307.2	314.7	321.5	328.3	336.3	344.4	351.2	357.4	361.7
162.5°	296.0	301.3	307.7	314.1	319.5	325.3	331.8	338.4	344.2	349.9	353.8
165°	299.1	303.5	308.4	312.8	316.5	320.8	325.7	330.7	334.5	338.8	341.9
167.5°	302.0	304.8	308.3	311.8	313.5	316.4	320.0	324.0	326.9	329.4	331.6
170°	303.5	304.8	307.8	310.3	311.6	313.4	316.5	319.6	321.5	323.9	325.2
172.5°	304.4	305.2	307.8	309.8	310.1	310.9	313.0	315.6	317.0	318.9	319.7
175°	305.3	305.9	307.2	308.4	307.8	307.8	309.0	310.3	310.9	312.1	312.1
177.5°	305.9	305.9	306.4	307.4	306.4	305.9	306.4	307.0	307.4	307.9	307.9
180°	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9



TEST NUMBER: P331885-927

CATALOG NUMBER: S123DIP-S340D805U927-4F0-1E-UDD-A4

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°	6.1	6.3	6.3	5.9	6.3	6.3	6.1	6.3	6.6	6.0	5.9
90°	17.3	18.0	18.6	18.0	18.6	18.0	17.3	18.0	16.7	16.1	15.4
92.5°	32.2	30.3	31.0	29.9	31.0	30.3	32.2	33.4	36.5	41.4	52.1
95°	84.2	78.7	74.3	71.9	74.3	78.7	84.2	96.0	118.3	151.1	223.0
97.5°	245.5	217.6	200.9	195.6	200.9	217.6	245.5	291.2	365.3	445.2	555.8
100°	457.1	411.9	387.7	388.3	387.7	411.9	457.1	519.6	607.6	680.0	730.2
102.5°	639.9	604.1	583.9	569.7	583.9	604.1	639.9	688.6	744.3	786.6	788.1
105°	834.2	810.7	790.9	787.8	790.9	810.7	834.2	862.8	878.8	867.0	805.2
107.5°	933.7	925.8	919.1	913.4	919.1	925.8	933.7	933.2	911.2	856.9	756.4
110°	962.4	967.4	966.1	965.0	966.1	967.4	962.4	945.2	901.7	823.7	709.8



TEST NUMBER: P331885-927

CATALOG NUMBER: S123DIP-S340D805U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	955.1	970.4	975.1	975.3	975.1	970.4	955.1	923.3	867.6	780.1	663.7
115°	915.4	942.6	955.1	958.1	955.1	942.6	915.4	868.9	801.5	710.3	602.6
117.5°	850.1	881.3	899.1	903.4	899.1	881.3	850.1	801.7	733.2	651.4	558.4
120°	804.5	839.2	854.1	857.8	854.1	839.2	804.5	755.6	693.1	618.7	535.1
122.5°	762.9	794.1	810.5	815.2	810.5	794.1	762.9	719.5	661.3	592.5	516.8
125°	708.5	735.8	751.2	755.6	751.2	735.8	708.5	668.9	619.3	559.9	492.3
127.5°	665.3	688.6	702.6	706.5	702.6	688.6	665.3	630.0	584.9	531.2	471.1
130°	638.6	660.8	673.8	678.8	673.8	660.8	638.6	605.7	563.6	513.4	457.7
132.5°	614.3	636.6	648.1	651.6	648.1	636.6	614.3	583.4	543.3	496.6	445.3
135°	578.5	597.1	608.2	612.5	608.2	597.1	578.5	548.1	512.8	472.5	428.6
137.5°	540.2	559.0	568.5	571.3	568.5	559.0	540.2	514.7	484.1	449.4	413.4
140°	515.9	533.2	543.2	542.6	543.2	533.2	515.9	492.3	465.7	436.0	404.4
142.5°	492.1	507.5	516.4	515.8	516.4	507.5	492.1	472.1	448.9	423.1	396.0
145°	459.5	472.5	477.5	478.7	477.5	472.5	459.5	444.1	426.1	406.3	385.9
147.5°	434.3	443.1	447.8	448.3	447.8	443.1	434.3	422.6	409.8	393.8	377.6
150°	419.9	426.7	430.5	430.5	430.5	426.7	419.9	410.6	398.9	385.9	371.6
152.5°	407.0	413.4	415.6	415.6	415.6	413.4	407.0	399.7	389.9	378.4	366.1
155°	390.1	395.1	396.4	397.0	396.4	395.1	390.1	384.6	377.2	367.9	358.0
157.5°	375.4	379.1	380.2	380.0	380.2	379.1	375.4	370.6	364.8	357.6	349.3
160°	366.1	369.7	369.7	369.2	369.7	369.7	366.1	361.7	357.4	351.2	344.4
162.5°	356.6	359.8	359.8	359.3	359.8	359.8	356.6	353.8	349.9	344.2	338.4
165°	344.4	346.8	346.2	346.2	346.2	346.8	344.4	341.9	338.8	334.5	330.7
167.5°	332.7	334.5	333.8	333.8	333.8	334.5	332.7	331.6	329.4	326.9	324.0
170°	325.7	327.0	326.4	326.4	326.4	327.0	325.7	325.2	323.9	321.5	319.6
172.5°	319.8	321.1	320.0	319.5	320.0	321.1	319.8	319.7	318.9	317.0	315.6
175°	312.1	312.8	312.1	311.6	312.1	312.8	312.1	312.1	312.1	310.9	310.3
177.5°	307.4	307.9	307.0	307.0	307.0	307.9	307.4	307.9	307.9	307.4	307.0
180°	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9



TEST NUMBER: P331885-927

CATALOG NUMBER: S123DIP-S340D805U927-4F0-1E-UDD-A4

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°	6.1	6.2	5.7	5.5	4.9	4.7	4.3	4.2	4.0	3.7	3.8
90°	14.9	15.4	13.6	11.8	9.9	8.1	6.8	5.5	3.7	2.5	1.3
92.5°	71.9	95.2	104.8	78.7	52.0	35.8	26.6	21.5	16.6	11.4	7.7
95°	297.9	367.3	327.0	225.5	133.2	80.5	56.3	40.2	29.7	22.9	21.1
97.5°	609.0	569.2	416.7	247.4	143.3	93.0	66.9	51.0	41.9	36.5	35.9
100°	708.5	586.5	396.4	233.5	141.8	98.5	74.3	59.5	50.8	46.4	45.9
102.5°	713.5	554.3	366.6	221.6	143.8	104.9	82.8	69.4	61.2	57.4	56.2
105°	675.7	498.0	330.1	213.0	149.2	115.8	96.6	84.8	77.4	73.7	71.9
107.5°	609.6	448.1	306.8	212.5	159.4	130.1	112.3	101.2	93.9	90.3	88.4
110°	567.9	419.9	297.9	214.9	167.9	140.0	122.6	112.1	105.3	102.2	100.4



TEST NUMBER: P331885-927

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	531.8	401.1	292.9	219.8	176.3	150.4	133.6	123.0	116.2	113.1	111.2
115°	488.1	380.9	291.1	227.9	190.1	166.6	149.9	139.3	133.2	129.4	127.0
117.5°	461.7	369.0	292.2	238.6	204.9	181.6	166.1	154.3	148.6	145.5	142.7
120°	447.8	363.5	294.2	246.5	214.3	192.0	176.5	164.8	158.5	155.4	153.6
122.5°	436.4	360.1	297.6	253.9	224.2	202.4	185.9	174.7	167.9	164.9	163.0
125°	421.8	355.5	302.9	265.7	238.4	216.7	200.0	188.3	181.5	177.8	176.5
127.5°	408.9	353.3	308.8	275.4	250.8	229.9	213.2	200.2	193.2	188.6	186.8
130°	402.0	351.8	312.8	281.8	258.3	237.8	221.1	208.1	200.7	195.1	193.2
132.5°	395.5	351.3	315.8	287.7	264.7	244.8	228.5	215.6	206.6	200.6	198.2
135°	387.1	350.5	320.2	295.4	274.3	255.2	238.4	225.5	216.2	209.4	206.8
137.5°	379.8	349.2	323.2	301.1	281.1	262.6	247.1	234.2	224.3	217.6	215.0
140°	375.3	348.7	325.2	304.1	285.5	267.5	252.1	239.7	229.8	223.6	220.5
142.5°	371.4	347.7	326.6	307.0	289.0	271.5	257.1	244.6	235.8	229.0	226.4
145°	366.1	346.2	327.6	310.3	293.6	277.5	263.2	252.7	243.4	237.8	236.0
147.5°	360.8	343.9	327.6	312.3	297.3	282.6	270.4	260.2	252.2	246.8	245.7
150°	357.4	341.9	327.6	312.8	299.8	285.5	274.3	265.7	257.6	252.7	252.1
152.5°	353.4	339.4	326.1	313.8	301.3	289.0	278.3	270.7	263.6	258.6	258.5
155°	347.5	335.1	324.6	314.0	304.1	293.6	284.9	278.1	271.9	268.2	268.2
157.5°	340.8	331.2	322.4	314.7	305.7	297.3	290.6	284.8	279.3	276.3	275.8
160°	336.3	328.3	321.5	314.7	307.2	299.8	293.6	289.2	284.3	281.8	281.8
162.5°	331.8	325.3	319.5	314.1	307.7	301.3	296.0	292.2	288.3	286.3	286.3
165°	325.7	320.8	316.5	312.8	308.4	303.5	299.1	296.7	293.6	292.3	292.9
167.5°	320.0	316.4	313.5	311.8	308.3	304.8	302.0	300.2	297.9	297.3	298.0
170°	316.5	313.4	311.6	310.3	307.8	304.8	303.5	302.2	300.4	299.8	301.0
172.5°	313.0	310.9	310.1	309.8	307.8	305.2	304.4	303.7	302.4	302.2	303.0
175°	309.0	307.8	307.8	308.4	307.2	305.9	305.3	305.3	304.1	304.8	305.3
177.5°	306.4	305.9	306.4	307.4	306.4	305.9	305.9	305.9	305.5	305.9	306.4
180°	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9



TEST NUMBER: P331885-927

CATALOG NUMBER: S123DIP-S340D805U927-4F0-1E-UDD-A4

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°	4.4	4.6	5.4	5.9	6.8	7.6	7.8	7.9	8.1	7.8	7.8
90°	2.5	3.7	5.5	6.8	8.1	9.9	11.8	13.6	15.4	14.9	15.4
92.5°	11.4	16.6	21.5	26.6	35.8	52.0	78.7	104.8	95.2	71.9	52.1
95°	22.9	29.7	40.2	56.3	80.5	133.2	225.5	327.0	367.3	297.9	223.0
97.5°	36.5	41.9	51.0	66.9	93.0	143.3	247.4	416.7	569.2	609.0	555.8
100°	46.4	50.8	59.5	74.3	98.5	141.8	233.5	396.4	586.5	708.5	730.2
102.5°	57.4	61.2	69.4	82.8	104.9	143.8	221.6	366.6	554.3	713.5	788.1
105°	73.7	77.4	84.8	96.6	115.8	149.2	213.0	330.1	498.0	675.7	805.2
107.5°	90.3	93.9	101.2	112.3	130.1	159.4	212.5	306.8	448.1	609.6	756.4
110°	102.2	105.3	112.1	122.6	140.0	167.9	214.9	297.9	419.9	567.9	709.8



TEST NUMBER: P331885-927

CATALOG NUMBER: S123DIP-S340D805U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	113.1	116.2	123.0	133.6	150.4	176.3	219.8	292.9	401.1	531.8	663.7
115°	129.4	133.2	139.3	149.9	166.6	190.1	227.9	291.1	380.9	488.1	602.6
117.5°	145.5	148.6	154.3	166.1	181.6	204.9	238.6	292.2	369.0	461.7	558.4
120°	155.4	158.5	164.8	176.5	192.0	214.3	246.5	294.2	363.5	447.8	535.1
122.5°	164.9	167.9	174.7	185.9	202.4	224.2	253.9	297.6	360.1	436.4	516.8
125°	177.8	181.5	188.3	200.0	216.7	238.4	265.7	302.9	355.5	421.8	492.3
127.5°	188.6	193.2	200.2	213.2	229.9	250.8	275.4	308.8	353.3	408.9	471.1
130°	195.1	200.7	208.1	221.1	237.8	258.3	281.8	312.8	351.8	402.0	457.7
132.5°	200.6	206.6	215.6	228.5	244.8	264.7	287.7	315.8	351.3	395.5	445.3
135°	209.4	216.2	225.5	238.4	255.2	274.3	295.4	320.2	350.5	387.1	428.6
137.5°	217.6	224.3	234.2	247.1	262.6	281.1	301.1	323.2	349.2	379.8	413.4
140°	223.6	229.8	239.7	252.1	267.5	285.5	304.1	325.2	348.7	375.3	404.4
142.5°	229.0	235.8	244.6	257.1	271.5	289.0	307.0	326.6	347.7	371.4	396.0
145°	237.8	243.4	252.7	263.2	277.5	293.6	310.3	327.6	346.2	366.1	385.9
147.5°	246.8	252.2	260.2	270.4	282.6	297.3	312.3	327.6	343.9	360.8	377.6
150°	252.7	257.6	265.7	274.3	285.5	299.8	312.8	327.6	341.9	357.4	371.6
152.5°	258.6	263.6	270.7	278.3	289.0	301.3	313.8	326.1	339.4	353.4	366.1
155°	268.2	271.9	278.1	284.9	293.6	304.1	314.0	324.6	335.1	347.5	358.0
157.5°	276.3	279.3	284.8	290.6	297.3	305.7	314.7	322.4	331.2	340.8	349.3
160°	281.8	284.3	289.2	293.6	299.8	307.2	314.7	321.5	328.3	336.3	344.4
162.5°	286.3	288.3	292.2	296.0	301.3	307.7	314.1	319.5	325.3	331.8	338.4
165°	292.3	293.6	296.7	299.1	303.5	308.4	312.8	316.5	320.8	325.7	330.7
167.5°	297.3	297.9	300.2	302.0	304.8	308.3	311.8	313.5	316.4	320.0	324.0
170°	299.8	300.4	302.2	303.5	304.8	307.8	310.3	311.6	313.4	316.5	319.6
172.5°	302.2	302.4	303.7	304.4	305.2	307.8	309.8	310.1	310.9	313.0	315.6
175°	304.8	304.1	305.3	305.3	305.9	307.2	308.4	307.8	307.8	309.0	310.3
177.5°	305.9	305.5	305.9	305.9	305.9	306.4	307.4	306.4	305.9	306.4	307.0
180°	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9



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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°	7.8	7.8	7.8	7.9	7.8	7.8	8.0
90°	16.1	16.7	18.0	17.3	18.0	18.6	18.0
92.5°	41.4	36.5	33.4	32.2	30.3	31.0	29.9
95°	151.1	118.3	96.0	84.2	78.7	74.3	71.9
97.5°	445.2	365.3	291.2	245.5	217.6	200.9	195.6
100°	680.0	607.6	519.6	457.1	411.9	387.7	388.3
102.5°	786.6	744.3	688.6	639.9	604.1	583.9	569.7
105°	867.0	878.8	862.8	834.2	810.7	790.9	787.8
107.5°	856.9	911.2	933.2	933.7	925.8	919.1	913.4
110°	823.7	901.7	945.2	962.4	967.4	966.1	965.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	780.1	867.6	923.3	955.1	970.4	975.1	975.3
115°	710.3	801.5	868.9	915.4	942.6	955.1	958.1
117.5°	651.4	733.2	801.7	850.1	881.3	899.1	903.4
120°	618.7	693.1	755.6	804.5	839.2	854.1	857.8
122.5°	592.5	661.3	719.5	762.9	794.1	810.5	815.2
125°	559.9	619.3	668.9	708.5	735.8	751.2	755.6
127.5°	531.2	584.9	630.0	665.3	688.6	702.6	706.5
130°	513.4	563.6	605.7	638.6	660.8	673.8	678.8
132.5°	496.6	543.3	583.4	614.3	636.6	648.1	651.6
135°	472.5	512.8	548.1	578.5	597.1	608.2	612.5
137.5°	449.4	484.1	514.7	540.2	559.0	568.5	571.3
140°	436.0	465.7	492.3	515.9	533.2	543.2	542.6
142.5°	423.1	448.9	472.1	492.1	507.5	516.4	515.8
145°	406.3	426.1	444.1	459.5	472.5	477.5	478.7
147.5°	393.8	409.8	422.6	434.3	443.1	447.8	448.3
150°	385.9	398.9	410.6	419.9	426.7	430.5	430.5
152.5°	378.4	389.9	399.7	407.0	413.4	415.6	415.6
155°	367.9	377.2	384.6	390.1	395.1	396.4	397.0
157.5°	357.6	364.8	370.6	375.4	379.1	380.2	380.0
160°	351.2	357.4	361.7	366.1	369.7	369.7	369.2
162.5°	344.2	349.9	353.8	356.6	359.8	359.8	359.3
165°	334.5	338.8	341.9	344.4	346.8	346.2	346.2
167.5°	326.9	329.4	331.6	332.7	334.5	333.8	333.8
170°	321.5	323.9	325.2	325.7	327.0	326.4	326.4
172.5°	317.0	318.9	319.7	319.8	321.1	320.0	319.5
175°	310.9	312.1	312.1	312.1	312.8	312.1	311.6
177.5°	307.4	307.9	307.9	307.4	307.9	307.0	307.0
180°	305.9	305.9	305.9	305.9	305.9	305.9	305.9

(END OF REPORT)