

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: P331885-930

Luminaire Tested: **S123DIP-S340D805U930-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331885-930
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-S340D805U930-4F0-1E-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: 3554.7 lumens
Efficiency: N/A
Efficacy: 113.9 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

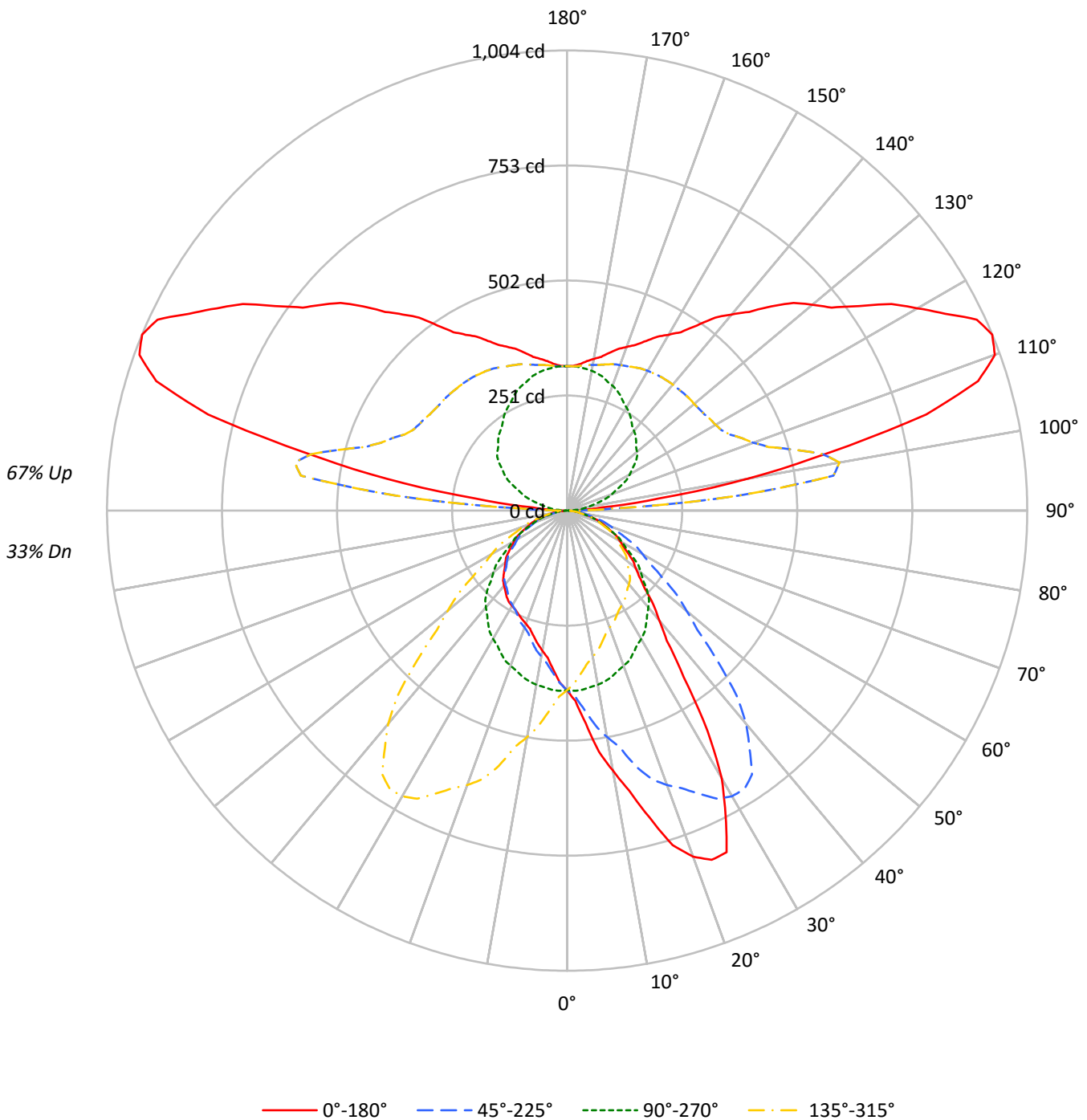
Input Watts (W): 31.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4219	4219	4219	4219
5°	5032	4238	3756	4238
10°	6299	4217	3393	4217
15°	7725	4182	3158	4182
20°	9203	4129	3007	4129
25°	9772	4065	2973	4065
30°	8376	4018	2988	4018
35°	5825	3951	3020	3951
40°	4388	3873	3011	3873
45°	3643	3755	2973	3755
50°	3264	3518	2946	3518
55°	3051	3262	2909	3262
60°	2863	2992	2878	2992
65°	2690	2728	2786	2728
70°	2521	2426	2653	2426
75°	2258	2125	2433	2125
80°	1977	1742	2095	1742
85°	1556	1272	1408	1272



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.6	1.1
10°-20°	123.8	3.5
20°-30°	207.8	5.8
30°-40°	235.3	6.6
40°-50°	211.0	5.9
50°-60°	170.3	4.8
60°-70°	118.7	3.3
70°-80°	62.4	1.8
80°-90°	17.7	0.5
90°-100°	175.2	4.9
100°-110°	496.2	14.0
110°-120°	488.1	13.7
120°-130°	389.3	11.0
130°-140°	307.0	8.6
140°-150°	229.1	6.4
150°-160°	159.7	4.5
160°-170°	93.8	2.6
170°-180°	30.5	0.9
0°-30°	370.3	10.4
0°-40°	605.6	17.0
0°-60°	986.9	27.8
0°-90°	1185.7	33.4
90°-120°	1159.6	32.6
90°-150°	2085.0	58.7
90°-180°	2369.0	66.6
0°-180°	3554.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	392	392	392	392	392	
5°	466	392	348	392	466	48
15°	693	375	283	375	693	200
25°	823	342	250	342	823	361
35°	443	301	230	301	443	288
45°	239	247	195	247	239	189
55°	163	174	155	174	163	146
65°	106	107	109	107	106	105
75°	54	51	58	51	54	58
85°	13	10	11	10	13	15
90°	18	1	18	1	18	10
95°	74	22	74	22	74	133
105°	811	74	811	74	811	800
115°	986	131	986	131	986	958
125°	778	182	778	182	778	705
135°	630	213	630	213	630	489
145°	493	243	493	243	493	313
155°	408	276	408	276	408	191
165°	356	302	356	302	356	102
175°	321	314	321	314	321	31
180°	315	315	315	315	315	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0
2.5°	416.0	415.7	415.0	415.6	414.3	412.7	412.5	411.0	406.6	406.3	405.1
5°	465.7	464.2	464.0	463.8	461.1	457.5	450.7	450.1	441.0	436.5	431.0
7.5°	530.1	530.8	528.1	525.7	517.6	512.2	504.8	495.5	484.3	472.9	465.4
10°	576.3	582.5	574.8	569.4	564.5	555.2	544.4	530.8	517.4	501.7	489.7
12.5°	625.8	628.8	627.3	622.3	614.7	600.5	581.3	566.4	554.0	527.7	517.1
15°	693.2	704.8	697.4	680.4	680.7	667.2	642.2	614.7	600.0	577.0	545.7
17.5°	765.2	766.5	763.4	749.2	739.7	721.1	698.0	671.6	642.0	614.2	580.9
20°	803.4	802.3	795.7	788.2	771.9	757.5	732.2	702.8	664.8	637.4	601.1
22.5°	824.7	822.8	819.6	813.4	799.9	784.4	761.7	729.5	693.3	655.7	613.8
25°	822.8	825.2	825.7	823.9	819.2	809.9	792.1	766.4	730.3	681.8	638.2
27.5°	748.4	751.9	762.0	771.0	781.1	791.3	789.9	777.2	750.5	708.7	655.3
30°	673.9	666.3	685.1	708.8	725.0	753.5	769.4	770.4	755.4	719.5	667.4
32.5°	570.5	578.9	587.3	616.4	651.8	683.7	715.5	741.0	744.0	720.1	674.6
35°	443.3	453.8	469.0	484.1	522.1	554.8	610.7	659.3	698.0	703.1	675.2
37.5°	357.3	362.4	372.0	387.3	412.1	450.9	494.0	555.5	611.6	653.4	655.2
40°	312.3	313.8	324.6	336.1	356.3	388.2	427.1	481.5	548.7	607.1	631.4
42.5°	278.5	281.8	286.5	297.6	313.6	337.6	373.8	418.7	480.4	547.5	595.0
45°	239.3	243.1	246.0	253.4	264.8	281.0	306.1	347.2	394.1	463.4	527.4
47.5°	213.4	213.7	215.8	221.4	229.2	241.3	259.2	285.5	328.6	384.8	450.5
50°	194.9	197.9	198.7	203.0	209.1	218.0	232.8	255.3	290.6	340.0	400.4
52.5°	181.8	182.7	184.8	188.0	193.3	200.2	213.1	230.6	258.4	300.5	356.0
55°	162.6	162.6	164.7	167.1	170.2	176.4	185.0	197.9	219.0	251.7	297.7
57.5°	144.8	145.8	147.2	148.0	150.6	154.7	161.8	171.7	187.4	212.5	249.1
60°	133.0	134.7	134.4	136.0	138.3	141.5	147.6	155.6	169.6	189.7	220.5
62.5°	122.6	122.5	122.5	124.3	126.5	129.6	133.6	140.5	152.5	170.3	196.5
65°	105.6	105.3	106.6	107.7	108.4	110.7	113.7	119.8	127.8	141.1	161.4
67.5°	90.5	89.4	90.1	90.5	91.8	93.6	96.4	100.2	106.5	117.2	132.5
70°	80.1	79.2	79.0	79.4	80.6	81.9	84.0	87.6	93.4	102.0	113.2
72.5°	69.5	68.9	68.8	69.7	70.2	71.1	72.6	75.8	80.6	87.0	97.4
75°	54.3	54.3	54.3	54.5	55.1	55.8	57.0	58.7	62.3	66.9	73.9
77.5°	40.7	40.7	40.4	40.4	41.3	41.6	41.8	43.5	45.5	48.5	53.6
80°	31.9	31.0	31.3	31.9	32.3	32.4	33.0	33.4	35.1	36.9	40.4
82.5°	23.7	22.9	23.0	23.9	24.0	24.1	24.7	25.2	25.8	27.4	29.4
85°	12.6	12.6	12.7	12.7	12.9	12.7	13.3	13.5	13.5	14.4	15.6
87.5°	8.2	8.1	8.1	8.2	8.1	8.0	8.0	8.1	8.1	8.3	8.2
90°	18.5	19.2	18.5	17.9	18.5	17.2	16.6	15.9	15.3	15.9	14.0
92.5°	30.7	31.9	31.2	33.2	34.3	37.6	42.6	53.6	73.9	98.0	107.9
95°	73.9	76.5	81.0	86.7	98.8	121.7	155.6	229.5	306.6	378.0	336.6
97.5°	201.3	206.8	224.0	252.7	299.7	375.9	458.2	572.0	626.7	585.8	428.8
100°	399.7	399.0	423.9	470.4	534.8	625.3	699.9	751.5	729.2	603.6	408.0
102.5°	586.3	601.0	621.7	658.6	708.7	766.1	809.5	811.1	734.3	570.5	377.3
105°	810.8	814.0	834.4	858.6	887.9	904.5	892.3	828.7	695.5	512.5	339.7
107.5°	940.0	945.9	952.8	961.0	960.4	937.8	881.9	778.4	627.4	461.2	315.8
110°	993.1	994.3	995.6	990.5	972.7	928.1	847.7	730.5	584.5	432.2	306.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1003.8	1003.6	998.7	982.9	950.2	892.9	802.9	683.1	547.3	412.8	301.5
115°	986.1	982.9	970.1	942.1	894.3	824.8	731.1	620.2	502.3	392.0	299.6
117.5°	929.8	925.4	907.0	874.9	825.1	754.6	670.4	574.7	475.2	379.8	300.8
120°	882.8	879.0	863.7	828.0	777.6	713.3	636.7	550.7	460.9	374.1	302.8
122.5°	838.9	834.1	817.3	785.1	740.5	680.6	609.8	531.9	449.1	370.6	306.3
125°	777.6	773.1	757.2	729.2	688.4	637.4	576.3	506.7	434.1	365.9	311.7
127.5°	727.2	723.1	708.7	684.7	648.4	602.0	546.7	484.9	420.9	363.6	317.8
130°	698.6	693.5	680.1	657.2	623.4	580.1	528.4	471.1	413.7	362.1	321.9
132.5°	670.6	667.0	655.2	632.2	600.5	559.1	511.1	458.3	407.1	361.5	325.0
135°	630.4	625.9	614.5	595.3	564.1	527.7	486.3	441.1	398.4	360.8	329.5
137.5°	588.0	585.1	575.4	556.0	529.7	498.2	462.5	425.4	390.9	359.4	332.6
140°	558.4	559.1	548.8	531.0	506.7	479.3	448.7	416.2	386.3	358.9	334.7
142.5°	530.8	531.5	522.3	506.5	485.8	462.0	435.5	407.6	382.2	357.8	336.1
145°	492.7	491.5	486.3	473.0	457.1	438.5	418.2	397.1	376.7	356.3	337.2
147.5°	461.4	460.9	456.0	446.9	434.9	421.8	405.3	388.6	371.4	353.9	337.2
150°	443.0	443.0	439.2	432.2	422.6	410.5	397.1	382.5	367.8	351.9	337.2
152.5°	427.7	427.7	425.4	418.9	411.4	401.3	389.5	376.8	363.7	349.3	335.7
155°	408.5	408.0	406.7	401.5	395.8	388.2	378.6	368.4	357.6	344.9	334.0
157.5°	391.1	391.3	390.2	386.4	381.4	375.4	368.0	359.5	350.7	340.9	331.8
160°	379.9	380.5	380.5	376.7	372.3	367.8	361.4	354.4	346.1	337.9	330.8
162.5°	369.7	370.3	370.3	367.0	364.1	360.1	354.2	348.3	341.5	334.8	328.8
165°	356.3	356.3	356.9	354.4	351.9	348.7	344.2	340.4	335.3	330.2	325.7
167.5°	343.6	343.6	344.2	342.4	341.3	339.0	336.4	333.5	329.3	325.6	322.7
170°	335.9	335.9	336.6	335.3	334.7	333.4	330.8	328.9	325.7	322.5	320.7
172.5°	328.8	329.3	330.4	329.1	329.1	328.2	326.2	324.8	322.1	320.0	319.1
175°	320.7	321.2	321.9	321.2	321.2	321.2	320.0	319.4	318.0	316.8	316.8
177.5°	315.9	315.9	316.9	316.4	316.9	316.9	316.4	315.9	315.4	314.9	315.4
180°	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0
2.5°	404.1	403.0	401.8	399.7	397.8	395.3	394.4	393.5	390.8	388.4	386.5
5°	428.8	424.3	417.7	411.6	406.7	400.0	396.2	392.2	386.5	381.4	377.2
7.5°	454.7	445.7	435.4	424.3	413.8	403.8	395.7	388.5	380.5	373.0	367.0
10°	475.2	462.3	447.8	432.3	419.0	406.1	395.3	385.8	375.5	366.6	359.1
12.5°	498.6	479.5	459.6	440.7	424.9	407.0	393.9	381.8	370.1	359.5	351.1
15°	526.3	502.0	478.4	452.4	428.5	406.1	390.5	375.3	361.8	350.8	340.1
17.5°	551.5	524.0	492.9	461.3	432.4	405.9	384.1	366.9	350.0	336.6	326.0
20°	565.8	534.5	499.4	466.5	434.6	405.0	381.0	360.5	342.3	328.0	316.1
22.5°	578.1	541.4	505.1	469.9	434.4	402.5	375.4	354.2	334.5	320.6	307.9
25°	590.9	547.0	510.5	469.4	429.7	396.6	366.2	342.3	322.5	306.1	293.1
27.5°	601.9	546.7	503.4	459.0	422.1	389.0	356.5	330.8	309.9	292.1	278.8
30°	609.1	547.4	495.9	452.1	414.8	380.7	349.1	323.3	301.3	283.2	270.7
32.5°	613.7	546.9	489.1	442.3	403.2	373.0	341.0	314.3	291.6	273.9	261.9
35°	616.4	543.6	477.3	422.2	384.7	355.1	328.4	300.7	277.0	260.4	246.7
37.5°	611.0	536.5	463.7	402.8	361.7	332.7	310.1	286.6	263.8	245.6	233.8
40°	602.7	532.0	453.0	389.1	345.8	318.0	298.8	275.6	253.2	235.9	224.9
42.5°	586.7	522.8	441.3	374.0	329.5	301.6	283.9	264.5	243.3	227.1	216.1
45°	547.8	502.6	423.7	351.2	305.2	276.4	260.8	246.7	227.6	211.8	202.3
47.5°	493.7	472.2	398.4	327.2	279.9	252.2	235.9	224.7	210.7	197.9	188.8
50°	456.2	447.3	381.2	310.7	263.1	235.9	220.3	210.1	200.0	187.3	179.0
52.5°	412.9	418.4	361.2	293.8	245.9	219.2	204.6	196.4	187.3	176.8	169.5
55°	352.0	371.9	326.5	265.1	220.3	194.9	181.0	173.8	168.4	160.7	154.4
57.5°	294.9	320.2	289.0	235.7	195.2	173.3	160.0	152.1	148.7	144.6	139.7
60°	261.0	286.0	262.3	216.0	178.4	157.4	145.7	139.0	135.6	132.7	128.6
62.5°	230.7	256.1	236.2	195.9	161.8	142.4	132.2	125.6	123.0	121.6	118.0
65°	189.1	211.0	197.7	164.7	138.1	121.0	111.7	107.1	104.7	104.1	101.8
67.5°	153.9	170.6	160.9	136.6	115.7	100.9	93.0	89.1	87.2	87.0	85.3
70°	130.9	146.4	139.0	117.0	99.0	87.4	80.6	77.1	76.0	75.8	74.8
72.5°	112.9	123.8	117.9	99.5	85.6	75.1	70.0	66.4	65.2	65.5	64.8
75°	83.6	91.7	88.3	75.6	64.4	57.6	53.4	51.1	50.0	50.5	49.7
77.5°	60.2	65.3	62.2	53.4	46.5	41.6	38.5	37.1	36.0	36.0	35.7
80°	45.4	48.4	46.7	41.4	35.7	31.6	29.0	28.1	27.6	27.3	27.1
82.5°	32.4	34.9	32.9	29.3	25.4	22.8	21.4	20.2	19.8	19.9	19.7
85°	16.3	17.3	16.6	14.3	12.7	11.6	10.8	10.3	9.9	10.0	9.7
87.5°	8.1	7.8	7.0	6.1	5.5	4.7	4.5	3.9	3.8	4.1	4.3
90°	12.1	10.2	8.3	7.0	5.7	3.8	2.5	1.3	2.5	3.8	5.7
92.5°	81.0	53.6	36.9	27.4	22.1	17.1	11.7	7.9	11.7	17.1	22.1
95°	232.0	137.1	82.8	58.0	41.4	30.6	23.6	21.7	23.6	30.6	41.4
97.5°	254.6	147.5	95.7	68.8	52.5	43.1	37.6	36.9	37.6	43.1	52.5
100°	240.3	145.9	101.3	76.5	61.2	52.3	47.8	47.2	47.8	52.3	61.2
102.5°	228.0	148.0	107.9	85.2	71.4	62.9	59.0	57.9	59.0	62.9	71.4
105°	219.2	153.6	119.2	99.5	87.3	79.7	75.8	73.9	75.8	79.7	87.3
107.5°	218.7	164.0	133.9	115.5	104.1	96.6	92.9	91.0	92.9	96.6	104.1
110°	221.2	172.8	144.1	126.2	115.4	108.4	105.2	103.3	105.2	108.4	115.4



TEST NUMBER: P331885-930

CATALOG NUMBER: S123DIP-S340D805U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	226.2	181.4	154.7	137.5	126.6	119.6	116.4	114.5	116.4	119.6	126.6
115°	234.6	195.7	171.5	154.3	143.4	137.1	133.2	130.7	133.2	137.1	143.4
117.5°	245.6	210.8	186.9	171.0	158.8	153.0	149.8	146.8	149.8	153.0	158.8
120°	253.7	220.5	197.6	181.6	169.6	163.1	160.0	158.1	160.0	163.1	169.6
122.5°	261.3	230.7	208.3	191.4	179.8	172.8	169.7	167.8	169.7	172.8	179.8
125°	273.5	245.4	223.1	205.9	193.8	186.8	183.0	181.6	183.0	186.8	193.8
127.5°	283.4	258.1	236.6	219.4	206.0	198.9	194.1	192.2	194.1	198.9	206.0
130°	290.0	265.8	244.8	227.6	214.2	206.5	200.8	198.9	200.8	206.5	214.2
132.5°	296.1	272.4	251.9	235.2	221.8	212.6	206.4	204.0	206.4	212.6	221.8
135°	304.0	282.3	262.6	245.4	232.0	222.5	215.5	212.9	215.5	222.5	232.0
137.5°	309.9	289.3	270.3	254.3	241.1	230.9	224.0	221.3	224.0	230.9	241.1
140°	313.0	293.8	275.3	259.4	246.7	236.5	230.1	226.9	230.1	236.5	246.7
142.5°	316.0	297.4	279.4	264.6	251.8	242.6	235.7	233.0	235.7	242.6	251.8
145°	319.4	302.1	285.6	270.9	260.1	250.5	244.8	242.9	244.8	250.5	260.1
147.5°	321.4	306.0	290.8	278.3	267.8	259.6	254.0	252.8	254.0	259.6	267.8
150°	321.9	308.5	293.8	282.3	273.5	265.1	260.1	259.4	260.1	265.1	273.5
152.5°	322.9	310.1	297.4	286.4	278.6	271.3	266.2	266.0	266.2	271.3	278.6
155°	323.2	313.0	302.1	293.2	286.2	279.8	276.0	276.0	276.0	279.8	286.2
157.5°	323.8	314.6	306.0	299.1	293.1	287.5	284.4	283.9	284.4	287.5	293.1
160°	323.8	316.2	308.5	302.1	297.7	292.6	290.0	290.0	290.0	292.6	297.7
162.5°	323.3	316.7	310.1	304.7	300.8	296.7	294.6	294.6	294.6	296.7	300.8
165°	321.9	317.4	312.3	307.9	305.3	302.1	300.8	301.5	300.8	302.1	305.3
167.5°	320.9	317.3	313.6	310.8	309.0	306.6	306.0	306.7	306.0	306.6	309.0
170°	319.4	316.8	313.6	312.3	311.0	309.2	308.5	309.8	308.5	309.2	311.0
172.5°	318.9	316.8	314.1	313.3	312.6	311.2	311.0	311.9	311.0	311.2	312.6
175°	317.4	316.2	314.9	314.2	314.2	313.0	313.6	314.2	313.6	313.0	314.2
177.5°	316.4	315.4	314.9	314.9	314.9	314.4	314.9	315.4	314.9	314.4	314.9
180°	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9



TEST NUMBER: P331885-930

CATALOG NUMBER: S123DIP-S340D805U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0
2.5°	385.5	384.4	382.9	380.7	378.8	375.9	375.9	376.3	376.3	376.3	375.9
5°	373.8	371.0	367.5	363.5	359.4	355.1	354.4	352.9	351.8	351.0	350.1
7.5°	361.4	356.4	351.4	345.8	340.7	336.6	333.6	331.2	329.6	327.9	326.7
10°	353.1	346.8	341.0	335.1	328.6	323.4	320.2	318.0	316.3	314.7	314.0
12.5°	343.2	336.1	329.5	323.9	316.9	311.6	308.5	307.4	305.5	302.2	300.6
15°	328.8	322.1	314.4	305.8	302.4	296.0	292.3	290.6	289.4	287.0	286.3
17.5°	316.4	307.8	299.0	292.6	286.3	281.0	279.0	276.9	275.4	273.4	272.7
20°	306.6	298.8	290.8	284.0	277.3	271.6	269.9	268.4	266.8	266.0	265.1
22.5°	296.5	288.8	282.1	275.7	268.6	264.9	263.1	261.4	260.3	259.7	258.9
25°	282.4	275.6	268.2	262.5	256.8	254.3	253.2	252.3	251.4	250.5	250.3
27.5°	269.9	262.4	256.4	251.0	247.0	244.9	243.8	243.4	243.5	243.9	244.1
30°	260.4	253.6	248.7	244.1	240.3	238.4	238.1	238.1	239.0	239.1	239.5
32.5°	251.8	246.1	241.2	236.8	233.9	232.6	233.3	233.3	233.9	234.4	235.1
35°	239.1	234.2	230.4	226.6	224.1	224.7	225.1	225.4	226.4	227.6	228.3
37.5°	227.1	222.8	218.8	215.9	214.7	215.7	216.7	217.4	218.6	219.5	220.2
40°	218.4	215.2	211.4	208.7	209.1	209.7	210.4	211.4	212.4	213.0	213.7
42.5°	210.3	207.0	204.1	201.9	202.4	203.2	203.6	204.1	205.2	206.3	206.7
45°	198.1	195.4	192.8	191.4	191.8	192.2	192.6	193.1	194.1	194.9	195.1
47.5°	184.3	182.5	180.7	179.4	180.0	179.9	180.3	181.6	181.8	182.3	183.4
50°	175.5	173.8	171.7	171.3	171.3	171.3	171.5	173.0	173.0	173.8	174.6
52.5°	165.8	164.7	163.4	162.7	162.3	162.3	163.1	163.9	164.2	165.3	166.1
55°	151.4	150.3	149.1	148.5	148.1	148.5	150.0	150.4	151.4	152.0	152.5
57.5°	136.4	135.5	134.6	134.3	134.2	134.7	135.5	136.6	136.9	138.7	139.5
60°	126.5	125.1	124.4	124.4	124.0	125.7	125.4	127.3	127.7	128.8	130.1
62.5°	116.3	114.5	114.2	114.2	114.8	115.3	115.8	116.6	117.6	119.0	120.1
65°	99.9	99.0	100.3	100.1	99.7	100.9	100.9	101.8	103.0	104.3	106.4
67.5°	84.4	83.9	84.0	84.0	84.5	85.2	85.8	86.6	88.0	89.4	90.7
70°	73.9	74.4	73.5	74.3	74.8	75.0	75.4	76.6	78.0	79.0	80.6
72.5°	63.7	63.7	63.8	64.1	64.7	65.0	65.4	66.7	68.3	69.1	70.4
75°	49.0	48.8	49.4	49.4	50.3	50.7	51.1	51.7	53.2	54.3	55.3
77.5°	35.8	36.0	35.9	36.5	36.3	36.4	37.5	38.1	38.2	40.5	41.0
80°	27.0	27.3	27.6	27.7	27.9	27.6	28.9	29.4	29.4	30.7	31.7
82.5°	19.4	19.6	20.1	20.3	20.3	20.7	20.8	21.2	21.7	22.3	23.5
85°	9.7	10.3	10.4	10.3	10.4	10.0	10.6	10.8	11.0	11.0	11.0
87.5°	4.4	4.8	5.1	5.6	5.9	6.4	6.3	6.1	6.2	6.8	6.4
90°	7.0	8.3	10.2	12.1	14.0	15.9	15.3	15.9	16.6	17.2	18.5
92.5°	27.4	36.9	53.6	81.0	107.9	98.0	73.9	53.6	42.6	37.6	34.3
95°	58.0	82.8	137.1	232.0	336.6	378.0	306.6	229.5	155.6	121.7	98.8
97.5°	68.8	95.7	147.5	254.6	428.8	585.8	626.7	572.0	458.2	375.9	299.7
100°	76.5	101.3	145.9	240.3	408.0	603.6	729.2	751.5	699.9	625.3	534.8
102.5°	85.2	107.9	148.0	228.0	377.3	570.5	734.3	811.1	809.5	766.1	708.7
105°	99.5	119.2	153.6	219.2	339.7	512.5	695.5	828.7	892.3	904.5	887.9
107.5°	115.5	133.9	164.0	218.7	315.8	461.2	627.4	778.4	881.9	937.8	960.4
110°	126.2	144.1	172.8	221.2	306.6	432.2	584.5	730.5	847.7	928.1	972.7



TEST NUMBER: P331885-930

CATALOG NUMBER: S123DIP-S340D805U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	137.5	154.7	181.4	226.2	301.5	412.8	547.3	683.1	802.9	892.9	950.2
115°	154.3	171.5	195.7	234.6	299.6	392.0	502.3	620.2	731.1	824.8	894.3
117.5°	171.0	186.9	210.8	245.6	300.8	379.8	475.2	574.7	670.4	754.6	825.1
120°	181.6	197.6	220.5	253.7	302.8	374.1	460.9	550.7	636.7	713.3	777.6
122.5°	191.4	208.3	230.7	261.3	306.3	370.6	449.1	531.9	609.8	680.6	740.5
125°	205.9	223.1	245.4	273.5	311.7	365.9	434.1	506.7	576.3	637.4	688.4
127.5°	219.4	236.6	258.1	283.4	317.8	363.6	420.9	484.9	546.7	602.0	648.4
130°	227.6	244.8	265.8	290.0	321.9	362.1	413.7	471.1	528.4	580.1	623.4
132.5°	235.2	251.9	272.4	296.1	325.0	361.5	407.1	458.3	511.1	559.1	600.5
135°	245.4	262.6	282.3	304.0	329.5	360.8	398.4	441.1	486.3	527.7	564.1
137.5°	254.3	270.3	289.3	309.9	332.6	359.4	390.9	425.4	462.5	498.2	529.7
140°	259.4	275.3	293.8	313.0	334.7	358.9	386.3	416.2	448.7	479.3	506.7
142.5°	264.6	279.4	297.4	316.0	336.1	357.8	382.2	407.6	435.5	462.0	485.8
145°	270.9	285.6	302.1	319.4	337.2	356.3	376.7	397.1	418.2	438.5	457.1
147.5°	278.3	290.8	306.0	321.4	337.2	353.9	371.4	388.6	405.3	421.8	434.9
150°	282.3	293.8	308.5	321.9	337.2	351.9	367.8	382.5	397.1	410.5	422.6
152.5°	286.4	297.4	310.1	322.9	335.7	349.3	363.7	376.8	389.5	401.3	411.4
155°	293.2	302.1	313.0	323.2	334.0	344.9	357.6	368.4	378.6	388.2	395.8
157.5°	299.1	306.0	314.6	323.8	331.8	340.9	350.7	359.5	368.0	375.4	381.4
160°	302.1	308.5	316.2	323.8	330.8	337.9	346.1	354.4	361.4	367.8	372.3
162.5°	304.7	310.1	316.7	323.3	328.8	334.8	341.5	348.3	354.2	360.1	364.1
165°	307.9	312.3	317.4	321.9	325.7	330.2	335.3	340.4	344.2	348.7	351.9
167.5°	310.8	313.6	317.3	320.9	322.7	325.6	329.3	333.5	336.4	339.0	341.3
170°	312.3	313.6	316.8	319.4	320.7	322.5	325.7	328.9	330.8	333.4	334.7
172.5°	313.3	314.1	316.8	318.9	319.1	320.0	322.1	324.8	326.2	328.2	329.1
175°	314.2	314.9	316.2	317.4	316.8	316.8	318.0	319.4	320.0	321.2	321.2
177.5°	314.9	314.9	315.4	316.4	315.4	314.9	315.4	315.9	316.4	316.9	316.9
180°	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9



TEST NUMBER: P331885-930

CATALOG NUMBER: S123DIP-S340D805U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0
2.5°	374.9	374.7	375.8	375.0	375.8	374.7	374.9	375.9	376.3	376.3	376.3
5°	348.9	349.5	347.6	347.6	347.6	349.5	348.9	350.1	351.0	351.8	352.9
7.5°	325.8	325.0	325.1	324.0	325.1	325.0	325.8	326.7	327.9	329.6	331.2
10°	311.7	310.5	310.1	310.4	310.1	310.5	311.7	314.0	314.7	316.3	318.0
12.5°	299.9	299.8	297.3	297.3	297.3	299.8	299.9	300.6	302.2	305.5	307.4
15°	286.3	282.7	282.3	283.4	282.3	282.7	286.3	286.3	287.0	289.4	290.6
17.5°	272.5	270.5	270.7	270.1	270.7	270.5	272.5	272.7	273.4	275.4	276.9
20°	265.1	264.0	263.8	262.5	263.8	264.0	265.1	265.1	266.0	266.8	268.4
22.5°	258.4	258.1	258.2	256.7	258.2	258.1	258.4	258.9	259.7	260.3	261.4
25°	250.1	251.1	250.3	250.3	250.3	251.1	250.1	250.3	250.5	251.4	252.3
27.5°	244.5	244.5	244.1	244.1	244.1	244.5	244.5	244.1	243.9	243.5	243.4
30°	240.3	240.1	240.4	240.4	240.4	240.1	240.3	239.5	239.1	239.0	238.1
32.5°	236.0	236.3	236.4	236.5	236.4	236.3	236.0	235.1	234.4	233.9	233.3
35°	229.4	229.7	230.2	229.8	230.2	229.7	229.4	228.3	227.6	226.4	225.4
37.5°	220.5	221.4	221.3	221.5	221.3	221.4	220.5	220.2	219.5	218.6	217.4
40°	213.9	214.4	214.3	214.3	214.3	214.4	213.9	213.7	213.0	212.4	211.4
42.5°	207.0	207.4	206.9	206.7	206.9	207.4	207.0	206.7	206.3	205.2	204.1
45°	195.8	195.4	196.0	195.3	196.0	195.4	195.8	195.1	194.9	194.1	193.1
47.5°	183.3	183.7	183.8	184.4	183.8	183.7	183.3	183.4	182.3	181.8	181.6
50°	175.0	176.1	176.1	175.9	176.1	176.1	175.0	174.6	173.8	173.0	173.0
52.5°	166.7	167.2	168.0	168.0	168.0	167.2	166.7	166.1	165.3	164.2	163.9
55°	154.0	154.4	154.8	155.0	154.8	154.4	154.0	152.5	152.0	151.4	150.4
57.5°	140.9	140.7	141.6	141.9	141.6	140.7	140.9	139.5	138.7	136.9	136.6
60°	131.6	131.6	133.1	133.7	133.1	131.6	131.6	130.1	128.8	127.7	127.3
62.5°	121.7	122.4	123.8	123.1	123.8	122.4	121.7	120.1	119.0	117.6	116.6
65°	107.3	108.8	108.7	109.4	108.7	108.8	107.3	106.4	104.3	103.0	101.8
67.5°	92.2	93.2	94.6	94.7	94.6	93.2	92.2	90.7	89.4	88.0	86.6
70°	82.0	83.0	83.7	84.3	83.7	83.0	82.0	80.6	79.0	78.0	76.6
72.5°	72.2	72.6	74.5	73.7	74.5	72.6	72.2	70.4	69.1	68.3	66.7
75°	56.6	58.0	59.1	58.5	59.1	58.0	56.6	55.3	54.3	53.2	51.7
77.5°	41.8	43.2	43.7	43.2	43.7	43.2	41.8	41.0	40.5	38.2	38.1
80°	33.0	32.9	34.0	33.8	34.0	32.9	33.0	31.7	30.7	29.4	29.4
82.5°	24.2	24.1	24.5	24.7	24.5	24.1	24.2	23.5	22.3	21.7	21.2
85°	11.7	12.3	11.6	11.4	11.6	12.3	11.7	11.0	11.0	11.0	10.8
87.5°	6.3	6.4	6.4	6.1	6.4	6.4	6.3	6.4	6.8	6.2	6.1
90°	17.9	18.5	19.2	18.5	19.2	18.5	17.9	18.5	17.2	16.6	15.9
92.5°	33.2	31.2	31.9	30.7	31.9	31.2	33.2	34.3	37.6	42.6	53.6
95°	86.7	81.0	76.5	73.9	76.5	81.0	86.7	98.8	121.7	155.6	229.5
97.5°	252.7	224.0	206.8	201.3	206.8	224.0	252.7	299.7	375.9	458.2	572.0
100°	470.4	423.9	399.0	399.7	399.0	423.9	470.4	534.8	625.3	699.9	751.5
102.5°	658.6	621.7	601.0	586.3	601.0	621.7	658.6	708.7	766.1	809.5	811.1
105°	858.6	834.4	814.0	810.8	814.0	834.4	858.6	887.9	904.5	892.3	828.7
107.5°	961.0	952.8	945.9	940.0	945.9	952.8	961.0	960.4	937.8	881.9	778.4
110°	990.5	995.6	994.3	993.1	994.3	995.6	990.5	972.7	928.1	847.7	730.5



TEST NUMBER: P331885-930

CATALOG NUMBER: S123DIP-S340D805U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	982.9	998.7	1003.6	1003.8	1003.6	998.7	982.9	950.2	892.9	802.9	683.1
115°	942.1	970.1	982.9	986.1	982.9	970.1	942.1	894.3	824.8	731.1	620.2
117.5°	874.9	907.0	925.4	929.8	925.4	907.0	874.9	825.1	754.6	670.4	574.7
120°	828.0	863.7	879.0	882.8	879.0	863.7	828.0	777.6	713.3	636.7	550.7
122.5°	785.1	817.3	834.1	838.9	834.1	817.3	785.1	740.5	680.6	609.8	531.9
125°	729.2	757.2	773.1	777.6	773.1	757.2	729.2	688.4	637.4	576.3	506.7
127.5°	684.7	708.7	723.1	727.2	723.1	708.7	684.7	648.4	602.0	546.7	484.9
130°	657.2	680.1	693.5	698.6	693.5	680.1	657.2	623.4	580.1	528.4	471.1
132.5°	632.2	655.2	667.0	670.6	667.0	655.2	632.2	600.5	559.1	511.1	458.3
135°	595.3	614.5	625.9	630.4	625.9	614.5	595.3	564.1	527.7	486.3	441.1
137.5°	556.0	575.4	585.1	588.0	585.1	575.4	556.0	529.7	498.2	462.5	425.4
140°	531.0	548.8	559.1	558.4	559.1	548.8	531.0	506.7	479.3	448.7	416.2
142.5°	506.5	522.3	531.5	530.8	531.5	522.3	506.5	485.8	462.0	435.5	407.6
145°	473.0	486.3	491.5	492.7	491.5	486.3	473.0	457.1	438.5	418.2	397.1
147.5°	446.9	456.0	460.9	461.4	460.9	456.0	446.9	434.9	421.8	405.3	388.6
150°	432.2	439.2	443.0	443.0	443.0	439.2	432.2	422.6	410.5	397.1	382.5
152.5°	418.9	425.4	427.7	427.7	427.7	425.4	418.9	411.4	401.3	389.5	376.8
155°	401.5	406.7	408.0	408.5	408.0	406.7	401.5	395.8	388.2	378.6	368.4
157.5°	386.4	390.2	391.3	391.1	391.3	390.2	386.4	381.4	375.4	368.0	359.5
160°	376.7	380.5	380.5	379.9	380.5	380.5	376.7	372.3	367.8	361.4	354.4
162.5°	367.0	370.3	370.3	369.7	370.3	370.3	367.0	364.1	360.1	354.2	348.3
165°	354.4	356.9	356.3	356.3	356.3	356.9	354.4	351.9	348.7	344.2	340.4
167.5°	342.4	344.2	343.6	343.6	343.6	344.2	342.4	341.3	339.0	336.4	333.5
170°	335.3	336.6	335.9	335.9	335.9	336.6	335.3	334.7	333.4	330.8	328.9
172.5°	329.1	330.4	329.3	328.8	329.3	330.4	329.1	329.1	328.2	326.2	324.8
175°	321.2	321.9	321.2	320.7	321.2	321.9	321.2	321.2	321.2	320.0	319.4
177.5°	316.4	316.9	315.9	315.9	315.9	316.9	316.4	316.9	316.9	316.4	315.9
180°	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9



TEST NUMBER: P331885-930

CATALOG NUMBER: S123DIP-S340D805U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0
2.5°	375.9	375.9	378.8	380.7	382.9	384.4	385.5	386.5	388.4	390.8	393.5
5°	354.4	355.1	359.4	363.5	367.5	371.0	373.8	377.2	381.4	386.5	392.2
7.5°	333.6	336.6	340.7	345.8	351.4	356.4	361.4	367.0	373.0	380.5	388.5
10°	320.2	323.4	328.6	335.1	341.0	346.8	353.1	359.1	366.6	375.5	385.8
12.5°	308.5	311.6	316.9	323.9	329.5	336.1	343.2	351.1	359.5	370.1	381.8
15°	292.3	296.0	302.4	305.8	314.4	322.1	328.8	340.1	350.8	361.8	375.3
17.5°	279.0	281.0	286.3	292.6	299.0	307.8	316.4	326.0	336.6	350.0	366.9
20°	269.9	271.6	277.3	284.0	290.8	298.8	306.6	316.1	328.0	342.3	360.5
22.5°	263.1	264.9	268.6	275.7	282.1	288.8	296.5	307.9	320.6	334.5	354.2
25°	253.2	254.3	256.8	262.5	268.2	275.6	282.4	293.1	306.1	322.5	342.3
27.5°	243.8	244.9	247.0	251.0	256.4	262.4	269.9	278.8	292.1	309.9	330.8
30°	238.1	238.4	240.3	244.1	248.7	253.6	260.4	270.7	283.2	301.3	323.3
32.5°	233.3	232.6	233.9	236.8	241.2	246.1	251.8	261.9	273.9	291.6	314.3
35°	225.1	224.7	224.1	226.6	230.4	234.2	239.1	246.7	260.4	277.0	300.7
37.5°	216.7	215.7	214.7	215.9	218.8	222.8	227.1	233.8	245.6	263.8	286.6
40°	210.4	209.7	209.1	208.7	211.4	215.2	218.4	224.9	235.9	253.2	275.6
42.5°	203.6	203.2	202.4	201.9	204.1	207.0	210.3	216.1	227.1	243.3	264.5
45°	192.6	192.2	191.8	191.4	192.8	195.4	198.1	202.3	211.8	227.6	246.7
47.5°	180.3	179.9	180.0	179.4	180.7	182.5	184.3	188.8	197.9	210.7	224.7
50°	171.5	171.3	171.3	171.3	171.7	173.8	175.5	179.0	187.3	200.0	210.1
52.5°	163.1	162.3	162.3	162.7	163.4	164.7	165.8	169.5	176.8	187.3	196.4
55°	150.0	148.5	148.1	148.5	149.1	150.3	151.4	154.4	160.7	168.4	173.8
57.5°	135.5	134.7	134.2	134.3	134.6	135.5	136.4	139.7	144.6	148.7	152.1
60°	125.4	125.7	124.0	124.4	124.4	125.1	126.5	128.6	132.7	135.6	139.0
62.5°	115.8	115.3	114.8	114.2	114.2	114.5	116.3	118.0	121.6	123.0	125.6
65°	100.9	100.9	99.7	100.1	100.3	99.0	99.9	101.8	104.1	104.7	107.1
67.5°	85.8	85.2	84.5	84.0	84.0	83.9	84.4	85.3	87.0	87.2	89.1
70°	75.4	75.0	74.8	74.3	73.5	74.4	73.9	74.8	75.8	76.0	77.1
72.5°	65.4	65.0	64.7	64.1	63.8	63.7	63.7	64.8	65.5	65.2	66.4
75°	51.1	50.7	50.3	49.4	49.4	48.8	49.0	49.7	50.5	50.0	51.1
77.5°	37.5	36.4	36.3	36.5	35.9	36.0	35.8	35.7	36.0	36.0	37.1
80°	28.9	27.6	27.9	27.7	27.6	27.3	27.0	27.1	27.3	27.6	28.1
82.5°	20.8	20.7	20.3	20.3	20.1	19.6	19.4	19.7	19.9	19.8	20.2
85°	10.6	10.0	10.4	10.3	10.4	10.3	9.7	9.7	10.0	9.9	10.3
87.5°	6.3	6.4	5.9	5.6	5.1	4.8	4.4	4.3	4.1	3.8	3.9
90°	15.3	15.9	14.0	12.1	10.2	8.3	7.0	5.7	3.8	2.5	1.3
92.5°	73.9	98.0	107.9	81.0	53.6	36.9	27.4	22.1	17.1	11.7	7.9
95°	306.6	378.0	336.6	232.0	137.1	82.8	58.0	41.4	30.6	23.6	21.7
97.5°	626.7	585.8	428.8	254.6	147.5	95.7	68.8	52.5	43.1	37.6	36.9
100°	729.2	603.6	408.0	240.3	145.9	101.3	76.5	61.2	52.3	47.8	47.2
102.5°	734.3	570.5	377.3	228.0	148.0	107.9	85.2	71.4	62.9	59.0	57.9
105°	695.5	512.5	339.7	219.2	153.6	119.2	99.5	87.3	79.7	75.8	73.9
107.5°	627.4	461.2	315.8	218.7	164.0	133.9	115.5	104.1	96.6	92.9	91.0
110°	584.5	432.2	306.6	221.2	172.8	144.1	126.2	115.4	108.4	105.2	103.3



TEST NUMBER: P331885-930

CATALOG NUMBER: S123DIP-S340D805U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	547.3	412.8	301.5	226.2	181.4	154.7	137.5	126.6	119.6	116.4	114.5
115°	502.3	392.0	299.6	234.6	195.7	171.5	154.3	143.4	137.1	133.2	130.7
117.5°	475.2	379.8	300.8	245.6	210.8	186.9	171.0	158.8	153.0	149.8	146.8
120°	460.9	374.1	302.8	253.7	220.5	197.6	181.6	169.6	163.1	160.0	158.1
122.5°	449.1	370.6	306.3	261.3	230.7	208.3	191.4	179.8	172.8	169.7	167.8
125°	434.1	365.9	311.7	273.5	245.4	223.1	205.9	193.8	186.8	183.0	181.6
127.5°	420.9	363.6	317.8	283.4	258.1	236.6	219.4	206.0	198.9	194.1	192.2
130°	413.7	362.1	321.9	290.0	265.8	244.8	227.6	214.2	206.5	200.8	198.9
132.5°	407.1	361.5	325.0	296.1	272.4	251.9	235.2	221.8	212.6	206.4	204.0
135°	398.4	360.8	329.5	304.0	282.3	262.6	245.4	232.0	222.5	215.5	212.9
137.5°	390.9	359.4	332.6	309.9	289.3	270.3	254.3	241.1	230.9	224.0	221.3
140°	386.3	358.9	334.7	313.0	293.8	275.3	259.4	246.7	236.5	230.1	226.9
142.5°	382.2	357.8	336.1	316.0	297.4	279.4	264.6	251.8	242.6	235.7	233.0
145°	376.7	356.3	337.2	319.4	302.1	285.6	270.9	260.1	250.5	244.8	242.9
147.5°	371.4	353.9	337.2	321.4	306.0	290.8	278.3	267.8	259.6	254.0	252.8
150°	367.8	351.9	337.2	321.9	308.5	293.8	282.3	273.5	265.1	260.1	259.4
152.5°	363.7	349.3	335.7	322.9	310.1	297.4	286.4	278.6	271.3	266.2	266.0
155°	357.6	344.9	334.0	323.2	313.0	302.1	293.2	286.2	279.8	276.0	276.0
157.5°	350.7	340.9	331.8	323.8	314.6	306.0	299.1	293.1	287.5	284.4	283.9
160°	346.1	337.9	330.8	323.8	316.2	308.5	302.1	297.7	292.6	290.0	290.0
162.5°	341.5	334.8	328.8	323.3	316.7	310.1	304.7	300.8	296.7	294.6	294.6
165°	335.3	330.2	325.7	321.9	317.4	312.3	307.9	305.3	302.1	300.8	301.5
167.5°	329.3	325.6	322.7	320.9	317.3	313.6	310.8	309.0	306.6	306.0	306.7
170°	325.7	322.5	320.7	319.4	316.8	313.6	312.3	311.0	309.2	308.5	309.8
172.5°	322.1	320.0	319.1	318.9	316.8	314.1	313.3	312.6	311.2	311.0	311.9
175°	318.0	316.8	316.8	317.4	316.2	314.9	314.2	314.2	313.0	313.6	314.2
177.5°	315.4	314.9	315.4	316.4	315.4	314.9	314.9	314.9	314.4	314.9	315.4
180°	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9



TEST NUMBER: P331885-930

CATALOG NUMBER: S123DIP-S340D805U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0
2.5°	394.4	395.3	397.8	399.7	401.8	403.0	404.1	405.1	406.3	406.6	411.0
5°	396.2	400.0	406.7	411.6	417.7	424.3	428.8	431.0	436.5	441.0	450.1
7.5°	395.7	403.8	413.8	424.3	435.4	445.7	454.7	465.4	472.9	484.3	495.5
10°	395.3	406.1	419.0	432.3	447.8	462.3	475.2	489.7	501.7	517.4	530.8
12.5°	393.9	407.0	424.9	440.7	459.6	479.5	498.6	517.1	527.7	554.0	566.4
15°	390.5	406.1	428.5	452.4	478.4	502.0	526.3	545.7	577.0	600.0	614.7
17.5°	384.1	405.9	432.4	461.3	492.9	524.0	551.5	580.9	614.2	642.0	671.6
20°	381.0	405.0	434.6	466.5	499.4	534.5	565.8	601.1	637.4	664.8	702.8
22.5°	375.4	402.5	434.4	469.9	505.1	541.4	578.1	613.8	655.7	693.3	729.5
25°	366.2	396.6	429.7	469.4	510.5	547.0	590.9	638.2	681.8	730.3	766.4
27.5°	356.5	389.0	422.1	459.0	503.4	546.7	601.9	655.3	708.7	750.5	777.2
30°	349.1	380.7	414.8	452.1	495.9	547.4	609.1	667.4	719.5	755.4	770.4
32.5°	341.0	373.0	403.2	442.3	489.1	546.9	613.7	674.6	720.1	744.0	741.0
35°	328.4	355.1	384.7	422.2	477.3	543.6	616.4	675.2	703.1	698.0	659.3
37.5°	310.1	332.7	361.7	402.8	463.7	536.5	611.0	655.2	653.4	611.6	555.5
40°	298.8	318.0	345.8	389.1	453.0	532.0	602.7	631.4	607.1	548.7	481.5
42.5°	283.9	301.6	329.5	374.0	441.3	522.8	586.7	595.0	547.5	480.4	418.7
45°	260.8	276.4	305.2	351.2	423.7	502.6	547.8	527.4	463.4	394.1	347.2
47.5°	235.9	252.2	279.9	327.2	398.4	472.2	493.7	450.5	384.8	328.6	285.5
50°	220.3	235.9	263.1	310.7	381.2	447.3	456.2	400.4	340.0	290.6	255.3
52.5°	204.6	219.2	245.9	293.8	361.2	418.4	412.9	356.0	300.5	258.4	230.6
55°	181.0	194.9	220.3	265.1	326.5	371.9	352.0	297.7	251.7	219.0	197.9
57.5°	160.0	173.3	195.2	235.7	289.0	320.2	294.9	249.1	212.5	187.4	171.7
60°	145.7	157.4	178.4	216.0	262.3	286.0	261.0	220.5	189.7	169.6	155.6
62.5°	132.2	142.4	161.8	195.9	236.2	256.1	230.7	196.5	170.3	152.5	140.5
65°	111.7	121.0	138.1	164.7	197.7	211.0	189.1	161.4	141.1	127.8	119.8
67.5°	93.0	100.9	115.7	136.6	160.9	170.6	153.9	132.5	117.2	106.5	100.2
70°	80.6	87.4	99.0	117.0	139.0	146.4	130.9	113.2	102.0	93.4	87.6
72.5°	70.0	75.1	85.6	99.5	117.9	123.8	112.9	97.4	87.0	80.6	75.8
75°	53.4	57.6	64.4	75.6	88.3	91.7	83.6	73.9	66.9	62.3	58.7
77.5°	38.5	41.6	46.5	53.4	62.2	65.3	60.2	53.6	48.5	45.5	43.5
80°	29.0	31.6	35.7	41.4	46.7	48.4	45.4	40.4	36.9	35.1	33.4
82.5°	21.4	22.8	25.4	29.3	32.9	34.9	32.4	29.4	27.4	25.8	25.2
85°	10.8	11.6	12.7	14.3	16.6	17.3	16.3	15.6	14.4	13.5	13.5
87.5°	4.5	4.7	5.5	6.1	7.0	7.8	8.1	8.2	8.3	8.1	8.1
90°	2.5	3.8	5.7	7.0	8.3	10.2	12.1	14.0	15.9	15.3	15.9
92.5°	11.7	17.1	22.1	27.4	36.9	53.6	81.0	107.9	98.0	73.9	53.6
95°	23.6	30.6	41.4	58.0	82.8	137.1	232.0	336.6	378.0	306.6	229.5
97.5°	37.6	43.1	52.5	68.8	95.7	147.5	254.6	428.8	585.8	626.7	572.0
100°	47.8	52.3	61.2	76.5	101.3	145.9	240.3	408.0	603.6	729.2	751.5
102.5°	59.0	62.9	71.4	85.2	107.9	148.0	228.0	377.3	570.5	734.3	811.1
105°	75.8	79.7	87.3	99.5	119.2	153.6	219.2	339.7	512.5	695.5	828.7
107.5°	92.9	96.6	104.1	115.5	133.9	164.0	218.7	315.8	461.2	627.4	778.4
110°	105.2	108.4	115.4	126.2	144.1	172.8	221.2	306.6	432.2	584.5	730.5



TEST NUMBER: P331885-930

CATALOG NUMBER: S123DIP-S340D805U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	116.4	119.6	126.6	137.5	154.7	181.4	226.2	301.5	412.8	547.3	683.1
115°	133.2	137.1	143.4	154.3	171.5	195.7	234.6	299.6	392.0	502.3	620.2
117.5°	149.8	153.0	158.8	171.0	186.9	210.8	245.6	300.8	379.8	475.2	574.7
120°	160.0	163.1	169.6	181.6	197.6	220.5	253.7	302.8	374.1	460.9	550.7
122.5°	169.7	172.8	179.8	191.4	208.3	230.7	261.3	306.3	370.6	449.1	531.9
125°	183.0	186.8	193.8	205.9	223.1	245.4	273.5	311.7	365.9	434.1	506.7
127.5°	194.1	198.9	206.0	219.4	236.6	258.1	283.4	317.8	363.6	420.9	484.9
130°	200.8	206.5	214.2	227.6	244.8	265.8	290.0	321.9	362.1	413.7	471.1
132.5°	206.4	212.6	221.8	235.2	251.9	272.4	296.1	325.0	361.5	407.1	458.3
135°	215.5	222.5	232.0	245.4	262.6	282.3	304.0	329.5	360.8	398.4	441.1
137.5°	224.0	230.9	241.1	254.3	270.3	289.3	309.9	332.6	359.4	390.9	425.4
140°	230.1	236.5	246.7	259.4	275.3	293.8	313.0	334.7	358.9	386.3	416.2
142.5°	235.7	242.6	251.8	264.6	279.4	297.4	316.0	336.1	357.8	382.2	407.6
145°	244.8	250.5	260.1	270.9	285.6	302.1	319.4	337.2	356.3	376.7	397.1
147.5°	254.0	259.6	267.8	278.3	290.8	306.0	321.4	337.2	353.9	371.4	388.6
150°	260.1	265.1	273.5	282.3	293.8	308.5	321.9	337.2	351.9	367.8	382.5
152.5°	266.2	271.3	278.6	286.4	297.4	310.1	322.9	335.7	349.3	363.7	376.8
155°	276.0	279.8	286.2	293.2	302.1	313.0	323.2	334.0	344.9	357.6	368.4
157.5°	284.4	287.5	293.1	299.1	306.0	314.6	323.8	331.8	340.9	350.7	359.5
160°	290.0	292.6	297.7	302.1	308.5	316.2	323.8	330.8	337.9	346.1	354.4
162.5°	294.6	296.7	300.8	304.7	310.1	316.7	323.3	328.8	334.8	341.5	348.3
165°	300.8	302.1	305.3	307.9	312.3	317.4	321.9	325.7	330.2	335.3	340.4
167.5°	306.0	306.6	309.0	310.8	313.6	317.3	320.9	322.7	325.6	329.3	333.5
170°	308.5	309.2	311.0	312.3	313.6	316.8	319.4	320.7	322.5	325.7	328.9
172.5°	311.0	311.2	312.6	313.3	314.1	316.8	318.9	319.1	320.0	322.1	324.8
175°	313.6	313.0	314.2	314.2	314.9	316.2	317.4	316.8	316.8	318.0	319.4
177.5°	314.9	314.4	314.9	314.9	314.9	315.4	316.4	315.4	314.9	315.4	315.9
180°	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9	314.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	392.0	392.0	392.0	392.0	392.0	392.0	392.0
2.5°	412.5	412.7	414.3	415.6	415.0	415.7	416.0
5°	450.7	457.5	461.1	463.8	464.0	464.2	465.7
7.5°	504.8	512.2	517.6	525.7	528.1	530.8	530.1
10°	544.4	555.2	564.5	569.4	574.8	582.5	576.3
12.5°	581.3	600.5	614.7	622.3	627.3	628.8	625.8
15°	642.2	667.2	680.7	680.4	697.4	704.8	693.2
17.5°	698.0	721.1	739.7	749.2	763.4	766.5	765.2
20°	732.2	757.5	771.9	788.2	795.7	802.3	803.4
22.5°	761.7	784.4	799.9	813.4	819.6	822.8	824.7
25°	792.1	809.9	819.2	823.9	825.7	825.2	822.8
27.5°	789.9	791.3	781.1	771.0	762.0	751.9	748.4
30°	769.4	753.5	725.0	708.8	685.1	666.3	673.9
32.5°	715.5	683.7	651.8	616.4	587.3	578.9	570.5
35°	610.7	554.8	522.1	484.1	469.0	453.8	443.3
37.5°	494.0	450.9	412.1	387.3	372.0	362.4	357.3
40°	427.1	388.2	356.3	336.1	324.6	313.8	312.3
42.5°	373.8	337.6	313.6	297.6	286.5	281.8	278.5
45°	306.1	281.0	264.8	253.4	246.0	243.1	239.3
47.5°	259.2	241.3	229.2	221.4	215.8	213.7	213.4
50°	232.8	218.0	209.1	203.0	198.7	197.9	194.9
52.5°	213.1	200.2	193.3	188.0	184.8	182.7	181.8
55°	185.0	176.4	170.2	167.1	164.7	162.6	162.6
57.5°	161.8	154.7	150.6	148.0	147.2	145.8	144.8
60°	147.6	141.5	138.3	136.0	134.4	134.7	133.0
62.5°	133.6	129.6	126.5	124.3	122.5	122.5	122.6
65°	113.7	110.7	108.4	107.7	106.6	105.3	105.6
67.5°	96.4	93.6	91.8	90.5	90.1	89.4	90.5
70°	84.0	81.9	80.6	79.4	79.0	79.2	80.1
72.5°	72.6	71.1	70.2	69.7	68.8	68.9	69.5
75°	57.0	55.8	55.1	54.5	54.3	54.3	54.3
77.5°	41.8	41.6	41.3	40.4	40.4	40.7	40.7
80°	33.0	32.4	32.3	31.9	31.3	31.0	31.9
82.5°	24.7	24.1	24.0	23.9	23.0	22.9	23.7
85°	13.3	12.7	12.9	12.7	12.7	12.6	12.6
87.5°	8.0	8.0	8.1	8.2	8.1	8.1	8.2
90°	16.6	17.2	18.5	17.9	18.5	19.2	18.5
92.5°	42.6	37.6	34.3	33.2	31.2	31.9	30.7
95°	155.6	121.7	98.8	86.7	81.0	76.5	73.9
97.5°	458.2	375.9	299.7	252.7	224.0	206.8	201.3
100°	699.9	625.3	534.8	470.4	423.9	399.0	399.7
102.5°	809.5	766.1	708.7	658.6	621.7	601.0	586.3
105°	892.3	904.5	887.9	858.6	834.4	814.0	810.8
107.5°	881.9	937.8	960.4	961.0	952.8	945.9	940.0
110°	847.7	928.1	972.7	990.5	995.6	994.3	993.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	802.9	892.9	950.2	982.9	998.7	1003.6	1003.8
115°	731.1	824.8	894.3	942.1	970.1	982.9	986.1
117.5°	670.4	754.6	825.1	874.9	907.0	925.4	929.8
120°	636.7	713.3	777.6	828.0	863.7	879.0	882.8
122.5°	609.8	680.6	740.5	785.1	817.3	834.1	838.9
125°	576.3	637.4	688.4	729.2	757.2	773.1	777.6
127.5°	546.7	602.0	648.4	684.7	708.7	723.1	727.2
130°	528.4	580.1	623.4	657.2	680.1	693.5	698.6
132.5°	511.1	559.1	600.5	632.2	655.2	667.0	670.6
135°	486.3	527.7	564.1	595.3	614.5	625.9	630.4
137.5°	462.5	498.2	529.7	556.0	575.4	585.1	588.0
140°	448.7	479.3	506.7	531.0	548.8	559.1	558.4
142.5°	435.5	462.0	485.8	506.5	522.3	531.5	530.8
145°	418.2	438.5	457.1	473.0	486.3	491.5	492.7
147.5°	405.3	421.8	434.9	446.9	456.0	460.9	461.4
150°	397.1	410.5	422.6	432.2	439.2	443.0	443.0
152.5°	389.5	401.3	411.4	418.9	425.4	427.7	427.7
155°	378.6	388.2	395.8	401.5	406.7	408.0	408.5
157.5°	368.0	375.4	381.4	386.4	390.2	391.3	391.1
160°	361.4	367.8	372.3	376.7	380.5	380.5	379.9
162.5°	354.2	360.1	364.1	367.0	370.3	370.3	369.7
165°	344.2	348.7	351.9	354.4	356.9	356.3	356.3
167.5°	336.4	339.0	341.3	342.4	344.2	343.6	343.6
170°	330.8	333.4	334.7	335.3	336.6	335.9	335.9
172.5°	326.2	328.2	329.1	329.1	330.4	329.3	328.8
175°	320.0	321.2	321.2	321.2	321.9	321.2	320.7
177.5°	316.4	316.9	316.9	316.4	316.9	315.9	315.9
180°	314.9	314.9	314.9	314.9	314.9	314.9	314.9

(END OF REPORT)