

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: P331883-927

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331883-927  
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: S123DIP-S340D805U927-4F0-1E-UDD-A  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 805 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3694.1 lumens  
Efficiency: N/A  
Efficacy: 118.4 lumens/watt  
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: Semi-Indirect

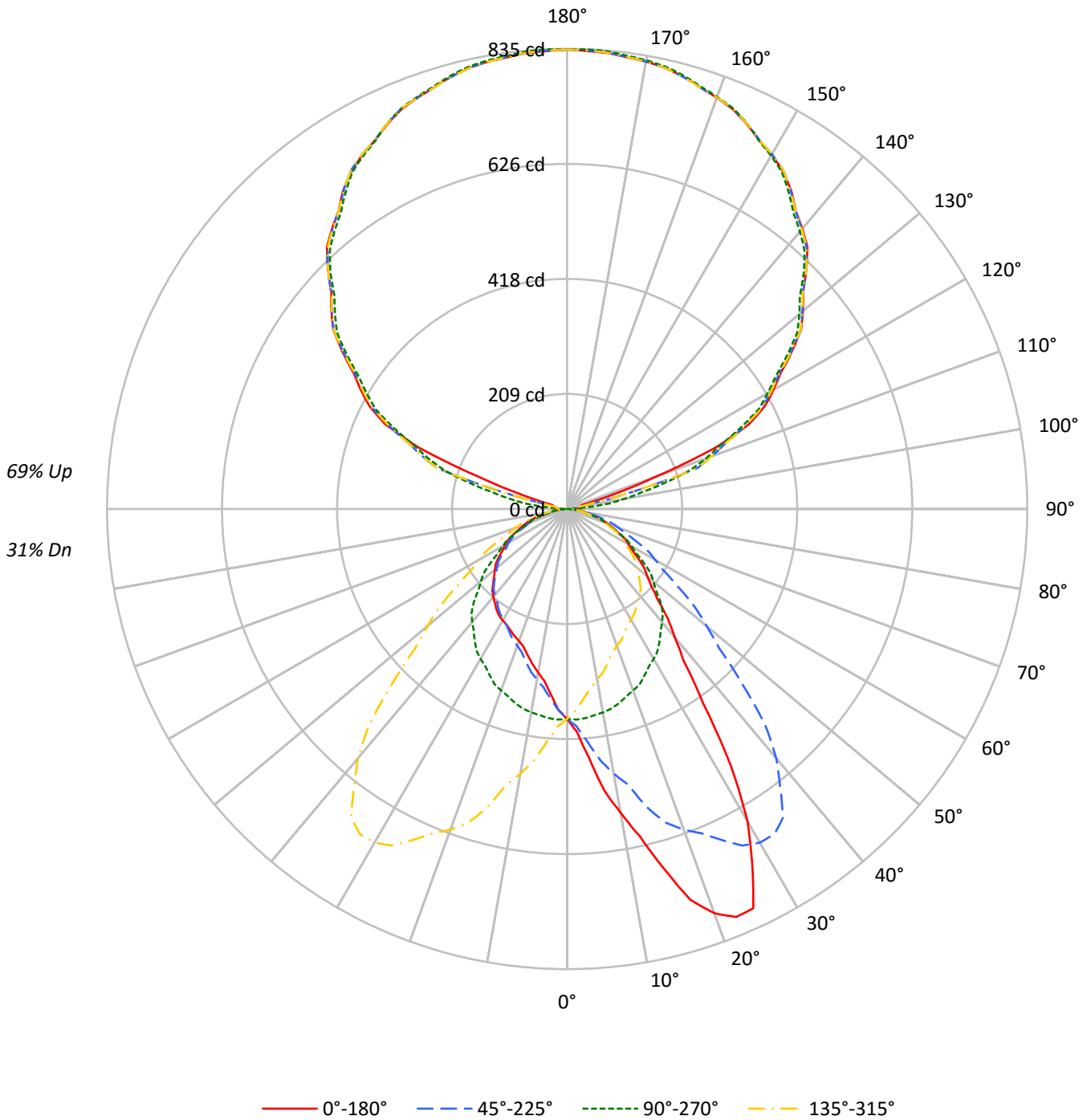
Input Watts (W): 31.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20			20			20			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	92	92	92	92	73	73	73	55	55	55	39	39	39	31
1	94	90	86	83	84	81	78	75	64	62	60	49	47	46	35	34	33	27
2	85	78	73	68	77	71	66	62	56	53	50	43	41	39	31	29	28	23
3	78	69	62	56	70	62	56	52	50	45	42	38	35	33	27	25	24	19
4	71	61	53	48	64	55	49	44	44	39	36	34	31	28	24	22	21	17
5	65	54	46	41	59	49	42	37	39	35	31	30	27	24	22	20	18	14
6	60	49	41	35	54	44	37	32	35	31	27	27	24	21	20	18	16	13
7	56	44	36	31	50	40	33	28	32	27	24	25	21	19	18	16	14	11
8	51	40	32	27	46	36	29	25	29	24	21	23	19	17	17	14	13	10
9	48	36	29	24	43	33	26	22	27	22	19	21	17	15	15	13	11	9
10	45	33	26	21	40	30	24	20	24	20	17	19	16	13	14	12	10	8

**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	1.0
10°-20°	120.3	3.3
20°-30°	201.9	5.5
30°-40°	228.6	6.2
40°-50°	205.0	5.6
50°-60°	165.5	4.5
60°-70°	115.3	3.1
70°-80°	60.6	1.6
80°-90°	17.1	0.5
90°-100°	30.3	0.8
100°-110°	144.4	3.9
110°-120°	347.0	9.4
120°-130°	441.8	12.0
130°-140°	472.1	12.8
140°-150°	441.4	11.9
150°-160°	356.1	9.6
160°-170°	229.8	6.2
170°-180°	79.2	2.1
0°-30°	359.8	9.7
0°-40°	588.4	15.9
0°-60°	958.9	26.0
0°-90°	1152.0	31.2
90°-120°	521.7	14.1
90°-150°	1877.0	50.8
90°-180°	2542.0	68.8
0°-180°	3694.1	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°	19	1	19	1	19	9
95°	24	38	24	38	24	20
105°	27	185	27	185	27	62
115°	364	346	364	346	364	337
125°	498	488	498	488	498	445
135°	614	608	614	608	614	473
145°	708	701	708	701	708	442
155°	771	772	771	772	771	356
165°	812	814	812	814	812	229
175°	830	834	830	834	830	79
180°	834	834	834	834	834	



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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°	8.2	7.8	7.9	8.0	7.8	7.8	7.8	7.9	7.9	8.0	7.8
90°	18.6	18.3	18.1	17.7	17.5	17.0	16.5	16.0	15.4	14.9	13.1
92.5°	20.6	20.4	20.2	20.0	19.9	19.4	18.5	17.6	16.7	15.8	14.5
95°	23.5	23.5	23.5	23.5	23.5	23.1	22.1	21.2	20.2	19.2	17.7
97.5°	25.5	25.3	25.3	25.1	25.0	24.3	23.2	22.2	21.1	20.0	29.9
100°	26.0	25.9	25.7	25.6	25.4	24.9	23.8	22.7	21.5	20.4	41.9
102.5°	26.5	26.2	26.0	25.7	25.5	27.1	30.5	33.9	37.3	40.7	64.2
105°	27.3	27.0	26.7	26.5	26.1	38.2	62.6	86.9	111.3	135.6	148.0
107.5°	85.6	103.9	122.3	140.7	159.0	177.1	195.0	212.9	230.8	248.6	246.6
110°	170.3	190.0	209.7	229.3	249.1	261.2	265.7	270.2	274.8	279.3	277.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	292.2	296.4	300.5	304.7	308.8	310.9	310.8	310.7	310.6	310.5	309.0
115°	364.2	363.6	363.1	362.5	361.9	361.0	359.7	358.2	356.9	355.5	354.3
117.5°	404.6	404.4	404.3	404.3	404.1	403.5	402.4	401.3	400.2	399.1	398.5
120°	432.3	432.3	432.3	432.3	432.3	431.7	430.6	429.5	428.4	427.3	426.9
122.5°	459.5	459.5	459.3	459.2	459.1	458.7	457.9	457.1	456.4	455.6	455.0
125°	498.0	497.6	497.4	497.1	496.9	496.5	496.3	496.0	495.7	495.4	494.9
127.5°	534.9	535.1	535.4	535.7	535.9	535.8	535.4	535.0	534.6	534.1	533.5
130°	558.6	558.9	559.2	559.4	559.8	559.6	559.0	558.5	557.9	557.4	556.8
132.5°	580.4	580.8	581.2	581.6	581.9	581.9	581.3	580.7	580.3	579.7	579.2
135°	613.8	614.2	614.6	615.0	615.4	615.4	615.0	614.6	614.2	613.8	613.2
137.5°	645.1	645.4	645.6	645.9	646.2	646.0	645.3	644.7	644.0	643.3	643.0
140°	663.9	664.2	664.5	664.7	665.0	664.9	664.3	663.8	663.2	662.7	662.3
142.5°	681.3	681.7	682.0	682.4	682.8	682.8	682.3	681.9	681.4	681.0	680.6
145°	707.9	707.9	707.9	707.9	707.9	707.7	707.5	707.2	706.9	706.6	706.4
147.5°	727.7	728.3	729.0	729.6	730.2	730.4	730.2	729.8	729.6	729.3	729.0
150°	742.6	743.0	743.4	743.8	744.3	744.3	744.0	743.7	743.5	743.2	742.9
152.5°	754.5	755.1	755.7	756.4	757.0	757.1	756.5	756.1	755.6	755.1	754.9
155°	771.0	771.9	772.7	773.6	774.4	774.4	773.7	773.1	772.4	771.7	771.5
157.5°	785.1	786.2	787.2	788.3	789.3	789.5	788.6	787.8	787.0	786.2	786.3
160°	794.0	795.0	795.9	796.9	797.8	797.9	797.1	796.2	795.4	794.6	794.7
162.5°	802.4	803.3	804.1	804.9	805.8	805.7	804.9	803.9	803.0	802.0	802.2
165°	812.5	813.5	814.4	815.5	816.4	816.3	815.2	814.1	813.0	811.9	812.1
167.5°	819.8	820.9	822.0	823.2	824.3	824.3	823.2	822.0	820.9	819.8	819.8
170°	824.3	825.5	826.5	827.6	828.7	828.7	827.6	826.5	825.5	824.3	824.3
172.5°	826.8	828.0	829.3	830.4	831.6	831.7	830.6	829.5	828.4	827.3	827.2
175°	830.5	831.6	832.7	833.9	834.9	835.0	834.0	833.1	832.1	831.2	831.0
177.5°	831.6	832.7	833.9	835.0	836.1	836.1	835.3	834.4	833.5	832.6	832.5
180°	833.6	833.6	833.6	833.6	833.6	833.6	833.6	833.6	833.6	833.6	833.6



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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°	7.7	7.5	6.7	5.8	5.2	4.5	4.2	3.6	3.6	4.0	4.0
90°	11.2	9.5	7.7	6.1	4.8	3.4	2.0	0.6	2.0	3.4	4.8
92.5°	13.2	11.8	10.5	10.0	10.4	10.8	11.2	11.5	11.2	10.8	10.4
95°	16.2	14.7	13.2	15.2	20.8	26.5	32.2	37.8	32.2	26.5	20.8
97.5°	39.8	49.7	59.6	65.8	68.4	70.9	73.4	75.9	73.4	70.9	68.4
100°	63.4	84.8	106.3	115.7	112.9	110.2	107.4	104.6	107.4	110.2	112.9
102.5°	87.6	111.1	134.6	145.3	143.3	141.3	139.3	137.4	139.3	141.3	143.3
105°	160.4	172.8	185.2	190.6	189.1	187.6	186.1	184.6	186.1	187.6	189.1
107.5°	244.7	242.7	240.7	239.2	238.0	236.8	235.6	234.3	235.6	236.8	238.0
110°	276.3	274.8	273.2	272.0	270.8	269.7	268.6	267.5	268.6	269.7	270.8





TEST NUMBER: P331883-927

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

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	307.5	306.0	304.4	303.2	302.2	301.3	300.2	299.3	300.2	301.3	302.2
115°	353.0	351.8	350.5	349.5	348.7	347.8	347.1	346.2	347.1	347.8	348.7
117.5°	397.8	397.2	396.6	395.7	394.7	393.7	392.7	391.7	392.7	393.7	394.7
120°	426.5	426.1	425.7	424.8	423.6	422.4	421.1	419.9	421.1	422.4	423.6
122.5°	454.6	454.0	453.4	452.7	451.7	450.7	449.6	448.6	449.6	450.7	451.7
125°	494.3	493.8	493.3	492.4	491.3	490.2	489.1	488.1	489.1	490.2	491.3
127.5°	532.8	532.1	531.5	530.6	529.5	528.4	527.3	526.2	527.3	528.4	529.5
130°	556.3	555.7	555.2	554.4	553.3	552.2	551.0	549.9	551.0	552.2	553.3
132.5°	578.8	578.4	577.9	577.2	576.1	575.0	573.9	572.7	573.9	575.0	576.1
135°	612.7	612.1	611.6	610.9	610.1	609.2	608.4	607.5	608.4	609.2	610.1
137.5°	642.8	642.5	642.1	641.4	640.4	639.4	638.3	637.3	638.3	639.4	640.4
140°	661.9	661.5	661.0	660.4	659.6	658.8	657.9	657.1	657.9	658.8	659.6
142.5°	680.2	679.8	679.4	678.7	677.9	677.1	676.3	675.4	676.3	677.1	677.9
145°	706.1	705.8	705.5	705.0	703.9	703.0	702.0	701.1	702.0	703.0	703.9
147.5°	728.7	728.5	728.3	727.8	727.1	726.5	725.9	725.2	725.9	726.5	727.1
150°	742.7	742.4	742.1	741.7	741.3	740.9	740.5	740.1	740.5	740.9	741.3
152.5°	754.7	754.6	754.4	754.2	754.1	753.8	753.7	753.4	753.7	753.8	754.1
155°	771.4	771.3	771.1	771.2	771.5	771.7	772.1	772.3	772.1	771.7	771.5
157.5°	786.5	786.6	786.7	786.8	786.8	786.9	786.9	786.9	786.9	786.9	786.8
160°	794.9	795.0	795.1	795.3	795.4	795.6	795.7	795.8	795.7	795.6	795.4
162.5°	802.3	802.4	802.6	802.8	803.2	803.5	803.9	804.2	803.9	803.5	803.2
165°	812.2	812.4	812.5	812.8	813.2	813.6	814.0	814.4	814.0	813.6	813.2
167.5°	819.8	819.8	819.8	820.1	820.7	821.3	821.8	822.4	821.8	821.3	820.7
170°	824.3	824.3	824.3	824.6	825.1	825.7	826.2	826.8	826.2	825.7	825.1
172.5°	827.0	827.0	826.9	827.1	827.8	828.5	829.1	829.7	829.1	828.5	827.8
175°	830.8	830.7	830.6	830.8	831.6	832.3	832.9	833.6	832.9	832.3	831.6
177.5°	832.4	832.3	832.2	832.4	833.0	833.5	834.1	834.6	834.1	833.5	833.0
180°	833.6	833.6	833.6	833.6	833.6	833.6	833.6	833.6	833.6	833.6	833.6



TEST NUMBER: P331883-927

CATALOG NUMBER: S123DIP-S340D805U927-4F0-1E-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°	4.2	4.7	4.8	5.4	5.5	6.1	6.2	6.0	6.1	6.7	6.2
90°	6.1	7.7	9.5	11.2	13.1	14.9	15.4	16.0	16.5	17.0	17.5
92.5°	10.0	10.5	11.8	13.2	14.5	15.8	16.7	17.6	18.5	19.4	19.9
95°	15.2	13.2	14.7	16.2	17.7	19.2	20.2	21.2	22.1	23.1	23.5
97.5°	65.8	59.6	49.7	39.8	29.9	20.0	21.1	22.2	23.2	24.3	25.0
100°	115.7	106.3	84.8	63.4	41.9	20.4	21.5	22.7	23.8	24.9	25.4
102.5°	145.3	134.6	111.1	87.6	64.2	40.7	37.3	33.9	30.5	27.1	25.5
105°	190.6	185.2	172.8	160.4	148.0	135.6	111.3	86.9	62.6	38.2	26.1
107.5°	239.2	240.7	242.7	244.7	246.6	248.6	230.8	212.9	195.0	177.1	159.0
110°	272.0	273.2	274.8	276.3	277.8	279.3	274.8	270.2	265.7	261.2	249.1



TEST NUMBER: P331883-927

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

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	303.2	304.4	306.0	307.5	309.0	310.5	310.6	310.7	310.8	310.9	308.8
115°	349.5	350.5	351.8	353.0	354.3	355.5	356.9	358.2	359.7	361.0	361.9
117.5°	395.7	396.6	397.2	397.8	398.5	399.1	400.2	401.3	402.4	403.5	404.1
120°	424.8	425.7	426.1	426.5	426.9	427.3	428.4	429.5	430.6	431.7	432.3
122.5°	452.7	453.4	454.0	454.6	455.0	455.6	456.4	457.1	457.9	458.7	459.1
125°	492.4	493.3	493.8	494.3	494.9	495.4	495.7	496.0	496.3	496.5	496.9
127.5°	530.6	531.5	532.1	532.8	533.5	534.1	534.6	535.0	535.4	535.8	535.9
130°	554.4	555.2	555.7	556.3	556.8	557.4	557.9	558.5	559.0	559.6	559.8
132.5°	577.2	577.9	578.4	578.8	579.2	579.7	580.3	580.7	581.3	581.9	581.9
135°	610.9	611.6	612.1	612.7	613.2	613.8	614.2	614.6	615.0	615.4	615.4
137.5°	641.4	642.1	642.5	642.8	643.0	643.3	644.0	644.7	645.3	646.0	646.2
140°	660.4	661.0	661.5	661.9	662.3	662.7	663.2	663.8	664.3	664.9	665.0
142.5°	678.7	679.4	679.8	680.2	680.6	681.0	681.4	681.9	682.3	682.8	682.8
145°	705.0	705.5	705.8	706.1	706.4	706.6	706.9	707.2	707.5	707.7	707.9
147.5°	727.8	728.3	728.5	728.7	729.0	729.3	729.6	729.8	730.2	730.4	730.2
150°	741.7	742.1	742.4	742.7	742.9	743.2	743.5	743.7	744.0	744.3	744.3
152.5°	754.2	754.4	754.6	754.7	754.9	755.1	755.6	756.1	756.5	757.1	757.0
155°	771.2	771.1	771.3	771.4	771.5	771.7	772.4	773.1	773.7	774.4	774.4
157.5°	786.8	786.7	786.6	786.5	786.3	786.2	787.0	787.8	788.6	789.5	789.3
160°	795.3	795.1	795.0	794.9	794.7	794.6	795.4	796.2	797.1	797.9	797.8
162.5°	802.8	802.6	802.4	802.3	802.2	802.0	803.0	803.9	804.9	805.7	805.8
165°	812.8	812.5	812.4	812.2	812.1	811.9	813.0	814.1	815.2	816.3	816.4
167.5°	820.1	819.8	819.8	819.8	819.8	819.8	820.9	822.0	823.2	824.3	824.3
170°	824.6	824.3	824.3	824.3	824.3	824.3	825.5	826.5	827.6	828.7	828.7
172.5°	827.1	826.9	827.0	827.0	827.2	827.3	828.4	829.5	830.6	831.7	831.6
175°	830.8	830.6	830.7	830.8	831.0	831.2	832.1	833.1	834.0	835.0	834.9
177.5°	832.4	832.2	832.3	832.4	832.5	832.6	833.5	834.4	835.3	836.1	836.1
180°	833.6	833.6	833.6	833.6	833.6	833.6	833.6	833.6	833.6	833.6	833.6



TEST NUMBER: P331883-927

CATALOG NUMBER: S123DIP-S340D805U927-4F0-1E-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°	6.2	6.3	6.2	6.1	6.2	6.3	6.2	6.2	6.7	6.1	6.0
90°	17.7	18.1	18.3	18.6	18.3	18.1	17.7	17.5	17.0	16.5	16.0
92.5°	20.0	20.2	20.4	20.6	20.4	20.2	20.0	19.9	19.4	18.5	17.6
95°	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.1	22.1	21.2
97.5°	25.1	25.3	25.3	25.5	25.3	25.3	25.1	25.0	24.3	23.2	22.2
100°	25.6	25.7	25.9	26.0	25.9	25.7	25.6	25.4	24.9	23.8	22.7
102.5°	25.7	26.0	26.2	26.5	26.2	26.0	25.7	25.5	27.1	30.5	33.9
105°	26.5	26.7	27.0	27.3	27.0	26.7	26.5	26.1	38.2	62.6	86.9
107.5°	140.7	122.3	103.9	85.6	103.9	122.3	140.7	159.0	177.1	195.0	212.9
110°	229.3	209.7	190.0	170.3	190.0	209.7	229.3	249.1	261.2	265.7	270.2



TEST NUMBER: P331883-927

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

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	304.7	300.5	296.4	292.2	296.4	300.5	304.7	308.8	310.9	310.8	310.7
115°	362.5	363.1	363.6	364.2	363.6	363.1	362.5	361.9	361.0	359.7	358.2
117.5°	404.3	404.3	404.4	404.6	404.4	404.3	404.3	404.1	403.5	402.4	401.3
120°	432.3	432.3	432.3	432.3	432.3	432.3	432.3	432.3	431.7	430.6	429.5
122.5°	459.2	459.3	459.5	459.5	459.5	459.3	459.2	459.1	458.7	457.9	457.1
125°	497.1	497.4	497.6	498.0	497.6	497.4	497.1	496.9	496.5	496.3	496.0
127.5°	535.7	535.4	535.1	534.9	535.1	535.4	535.7	535.9	535.8	535.4	535.0
130°	559.4	559.2	558.9	558.6	558.9	559.2	559.4	559.8	559.6	559.0	558.5
132.5°	581.6	581.2	580.8	580.4	580.8	581.2	581.6	581.9	581.9	581.3	580.7
135°	615.0	614.6	614.2	613.8	614.2	614.6	615.0	615.4	615.4	615.0	614.6
137.5°	645.9	645.6	645.4	645.1	645.4	645.6	645.9	646.2	646.0	645.3	644.7
140°	664.7	664.5	664.2	663.9	664.2	664.5	664.7	665.0	664.9	664.3	663.8
142.5°	682.4	682.0	681.7	681.3	681.7	682.0	682.4	682.8	682.8	682.3	681.9
145°	707.9	707.9	707.9	707.9	707.9	707.9	707.9	707.9	707.7	707.5	707.2
147.5°	729.6	729.0	728.3	727.7	728.3	729.0	729.6	730.2	730.4	730.2	729.8
150°	743.8	743.4	743.0	742.6	743.0	743.4	743.8	744.3	744.3	744.0	743.7
152.5°	756.4	755.7	755.1	754.5	755.1	755.7	756.4	757.0	757.1	756.5	756.1
155°	773.6	772.7	771.9	771.0	771.9	772.7	773.6	774.4	774.4	773.7	773.1
157.5°	788.3	787.2	786.2	785.1	786.2	787.2	788.3	789.3	789.5	788.6	787.8
160°	796.9	795.9	795.0	794.0	795.0	795.9	796.9	797.8	797.9	797.1	796.2
162.5°	804.9	804.1	803.3	802.4	803.3	804.1	804.9	805.8	805.7	804.9	803.9
165°	815.5	814.4	813.5	812.5	813.5	814.4	815.5	816.4	816.3	815.2	814.1
167.5°	823.2	822.0	820.9	819.8	820.9	822.0	823.2	824.3	824.3	823.2	822.0
170°	827.6	826.5	825.5	824.3	825.5	826.5	827.6	828.7	828.7	827.6	826.5
172.5°	830.4	829.3	828.0	826.8	828.0	829.3	830.4	831.6	831.7	830.6	829.5
175°	833.9	832.7	831.6	830.5	831.6	832.7	833.9	834.9	835.0	834.0	833.1
177.5°	835.0	833.9	832.7	831.6	832.7	833.9	835.0	836.1	836.1	835.3	834.4
180°	833.6	833.6	833.6	833.6	833.6	833.6	833.6	833.6	833.6	833.6	833.6



TEST NUMBER: P331883-927

CATALOG NUMBER: S123DIP-S340D805U927-4F0-1E-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°	6.2	6.1	5.5	5.4	4.8	4.7	4.2	4.0	4.0	3.6	3.6
90°	15.4	14.9	13.1	11.2	9.5	7.7	6.1	4.8	3.4	2.0	0.6
92.5°	16.7	15.8	14.5	13.2	11.8	10.5	10.0	10.4	10.8	11.2	11.5
95°	20.2	19.2	17.7	16.2	14.7	13.2	15.2	20.8	26.5	32.2	37.8
97.5°	21.1	20.0	29.9	39.8	49.7	59.6	65.8	68.4	70.9	73.4	75.9
100°	21.5	20.4	41.9	63.4	84.8	106.3	115.7	112.9	110.2	107.4	104.6
102.5°	37.3	40.7	64.2	87.6	111.1	134.6	145.3	143.3	141.3	139.3	137.4
105°	111.3	135.6	148.0	160.4	172.8	185.2	190.6	189.1	187.6	186.1	184.6
107.5°	230.8	248.6	246.6	244.7	242.7	240.7	239.2	238.0	236.8	235.6	234.3
110°	274.8	279.3	277.8	276.3	274.8	273.2	272.0	270.8	269.7	268.6	267.5



TEST NUMBER: P331883-927

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

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	310.6	310.5	309.0	307.5	306.0	304.4	303.2	302.2	301.3	300.2	299.3
115°	356.9	355.5	354.3	353.0	351.8	350.5	349.5	348.7	347.8	347.1	346.2
117.5°	400.2	399.1	398.5	397.8	397.2	396.6	395.7	394.7	393.7	392.7	391.7
120°	428.4	427.3	426.9	426.5	426.1	425.7	424.8	423.6	422.4	421.1	419.9
122.5°	456.4	455.6	455.0	454.6	454.0	453.4	452.7	451.7	450.7	449.6	448.6
125°	495.7	495.4	494.9	494.3	493.8	493.3	492.4	491.3	490.2	489.1	488.1
127.5°	534.6	534.1	533.5	532.8	532.1	531.5	530.6	529.5	528.4	527.3	526.2
130°	557.9	557.4	556.8	556.3	555.7	555.2	554.4	553.3	552.2	551.0	549.9
132.5°	580.3	579.7	579.2	578.8	578.4	577.9	577.2	576.1	575.0	573.9	572.7
135°	614.2	613.8	613.2	612.7	612.1	611.6	610.9	610.1	609.2	608.4	607.5
137.5°	644.0	643.3	643.0	642.8	642.5	642.1	641.4	640.4	639.4	638.3	637.3
140°	663.2	662.7	662.3	661.9	661.5	661.0	660.4	659.6	658.8	657.9	657.1
142.5°	681.4	681.0	680.6	680.2	679.8	679.4	678.7	677.9	677.1	676.3	675.4
145°	706.9	706.6	706.4	706.1	705.8	705.5	705.0	703.9	703.0	702.0	701.1
147.5°	729.6	729.3	729.0	728.7	728.5	728.3	727.8	727.1	726.5	725.9	725.2
150°	743.5	743.2	742.9	742.7	742.4	742.1	741.7	741.3	740.9	740.5	740.1
152.5°	755.6	755.1	754.9	754.7	754.6	754.4	754.2	754.1	753.8	753.7	753.4
155°	772.4	771.7	771.5	771.4	771.3	771.1	771.2	771.5	771.7	772.1	772.3
157.5°	787.0	786.2	786.3	786.5	786.6	786.7	786.8	786.8	786.9	786.9	786.9
160°	795.4	794.6	794.7	794.9	795.0	795.1	795.3	795.4	795.6	795.7	795.8
162.5°	803.0	802.0	802.2	802.3	802.4	802.6	802.8	803.2	803.5	803.9	804.2
165°	813.0	811.9	812.1	812.2	812.4	812.5	812.8	813.2	813.6	814.0	814.4
167.5°	820.9	819.8	819.8	819.8	819.8	819.8	820.1	820.7	821.3	821.8	822.4
170°	825.5	824.3	824.3	824.3	824.3	824.3	824.6	825.1	825.7	826.2	826.8
172.5°	828.4	827.3	827.2	827.0	827.0	826.9	827.1	827.8	828.5	829.1	829.7
175°	832.1	831.2	831.0	830.8	830.7	830.6	830.8	831.6	832.3	832.9	833.6
177.5°	833.5	832.6	832.5	832.4	832.3	832.2	832.4	833.0	833.5	834.1	834.6
180°	833.6	833.6	833.6	833.6	833.6	833.6	833.6	833.6	833.6	833.6	833.6



TEST NUMBER: P331883-927

CATALOG NUMBER: S123DIP-S340D805U927-4F0-1E-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°	4.2	4.5	5.2	5.8	6.7	7.5	7.7	7.8	8.0	7.9	7.9
90°	2.0	3.4	4.8	6.1	7.7	9.5	11.2	13.1	14.9	15.4	16.0
92.5°	11.2	10.8	10.4	10.0	10.5	11.8	13.2	14.5	15.8	16.7	17.6
95°	32.2	26.5	20.8	15.2	13.2	14.7	16.2	17.7	19.2	20.2	21.2
97.5°	73.4	70.9	68.4	65.8	59.6	49.7	39.8	29.9	20.0	21.1	22.2
100°	107.4	110.2	112.9	115.7	106.3	84.8	63.4	41.9	20.4	21.5	22.7
102.5°	139.3	141.3	143.3	145.3	134.6	111.1	87.6	64.2	40.7	37.3	33.9
105°	186.1	187.6	189.1	190.6	185.2	172.8	160.4	148.0	135.6	111.3	86.9
107.5°	235.6	236.8	238.0	239.2	240.7	242.7	244.7	246.6	248.6	230.8	212.9
110°	268.6	269.7	270.8	272.0	273.2	274.8	276.3	277.8	279.3	274.8	270.2





TEST NUMBER: P331883-927

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

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	300.2	301.3	302.2	303.2	304.4	306.0	307.5	309.0	310.5	310.6	310.7
115°	347.1	347.8	348.7	349.5	350.5	351.8	353.0	354.3	355.5	356.9	358.2
117.5°	392.7	393.7	394.7	395.7	396.6	397.2	397.8	398.5	399.1	400.2	401.3
120°	421.1	422.4	423.6	424.8	425.7	426.1	426.5	426.9	427.3	428.4	429.5
122.5°	449.6	450.7	451.7	452.7	453.4	454.0	454.6	455.0	455.6	456.4	457.1
125°	489.1	490.2	491.3	492.4	493.3	493.8	494.3	494.9	495.4	495.7	496.0
127.5°	527.3	528.4	529.5	530.6	531.5	532.1	532.8	533.5	534.1	534.6	535.0
130°	551.0	552.2	553.3	554.4	555.2	555.7	556.3	556.8	557.4	557.9	558.5
132.5°	573.9	575.0	576.1	577.2	577.9	578.4	578.8	579.2	579.7	580.3	580.7
135°	608.4	609.2	610.1	610.9	611.6	612.1	612.7	613.2	613.8	614.2	614.6
137.5°	638.3	639.4	640.4	641.4	642.1	642.5	642.8	643.0	643.3	644.0	644.7
140°	657.9	658.8	659.6	660.4	661.0	661.5	661.9	662.3	662.7	663.2	663.8
142.5°	676.3	677.1	677.9	678.7	679.4	679.8	680.2	680.6	681.0	681.4	681.9
145°	702.0	703.0	703.9	705.0	705.5	705.8	706.1	706.4	706.6	706.9	707.2
147.5°	725.9	726.5	727.1	727.8	728.3	728.5	728.7	729.0	729.3	729.6	729.8
150°	740.5	740.9	741.3	741.7	742.1	742.4	742.7	742.9	743.2	743.5	743.7
152.5°	753.7	753.8	754.1	754.2	754.4	754.6	754.7	754.9	755.1	755.6	756.1
155°	772.1	771.7	771.5	771.2	771.1	771.3	771.4	771.5	771.7	772.4	773.1
157.5°	786.9	786.9	786.8	786.8	786.7	786.6	786.5	786.3	786.2	787.0	787.8
160°	795.7	795.6	795.4	795.3	795.1	795.0	794.9	794.7	794.6	795.4	796.2
162.5°	803.9	803.5	803.2	802.8	802.6	802.4	802.3	802.2	802.0	803.0	803.9
165°	814.0	813.6	813.2	812.8	812.5	812.4	812.2	812.1	811.9	813.0	814.1
167.5°	821.8	821.3	820.7	820.1	819.8	819.8	819.8	819.8	819.8	820.9	822.0
170°	826.2	825.7	825.1	824.6	824.3	824.3	824.3	824.3	824.3	825.5	826.5
172.5°	829.1	828.5	827.8	827.1	826.9	827.0	827.0	827.2	827.3	828.4	829.5
175°	832.9	832.3	831.6	830.8	830.6	830.7	830.8	831.0	831.2	832.1	833.1
177.5°	834.1	833.5	833.0	832.4	832.2	832.3	832.4	832.5	832.6	833.5	834.4
180°	833.6	833.6	833.6	833.6	833.6	833.6	833.6	833.6	833.6	833.6	833.6



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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	8.0	7.9	7.8	8.2
90°	16.5	17.0	17.5	17.7	18.1	18.3	18.6
92.5°	18.5	19.4	19.9	20.0	20.2	20.4	20.6
95°	22.1	23.1	23.5	23.5	23.5	23.5	23.5
97.5°	23.2	24.3	25.0	25.1	25.3	25.3	25.5
100°	23.8	24.9	25.4	25.6	25.7	25.9	26.0
102.5°	30.5	27.1	25.5	25.7	26.0	26.2	26.5
105°	62.6	38.2	26.1	26.5	26.7	27.0	27.3
107.5°	195.0	177.1	159.0	140.7	122.3	103.9	85.6
110°	265.7	261.2	249.1	229.3	209.7	190.0	170.3



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	310.8	310.9	308.8	304.7	300.5	296.4	292.2
115°	359.7	361.0	361.9	362.5	363.1	363.6	364.2
117.5°	402.4	403.5	404.1	404.3	404.3	404.4	404.6
120°	430.6	431.7	432.3	432.3	432.3	432.3	432.3
122.5°	457.9	458.7	459.1	459.2	459.3	459.5	459.5
125°	496.3	496.5	496.9	497.1	497.4	497.6	498.0
127.5°	535.4	535.8	535.9	535.7	535.4	535.1	534.9
130°	559.0	559.6	559.8	559.4	559.2	558.9	558.6
132.5°	581.3	581.9	581.9	581.6	581.2	580.8	580.4
135°	615.0	615.4	615.4	615.0	614.6	614.2	613.8
137.5°	645.3	646.0	646.2	645.9	645.6	645.4	645.1
140°	664.3	664.9	665.0	664.7	664.5	664.2	663.9
142.5°	682.3	682.8	682.8	682.4	682.0	681.7	681.3
145°	707.5	707.7	707.9	707.9	707.9	707.9	707.9
147.5°	730.2	730.4	730.2	729.6	729.0	728.3	727.7
150°	744.0	744.3	744.3	743.8	743.4	743.0	742.6
152.5°	756.5	757.1	757.0	756.4	755.7	755.1	754.5
155°	773.7	774.4	774.4	773.6	772.7	771.9	771.0
157.5°	788.6	789.5	789.3	788.3	787.2	786.2	785.1
160°	797.1	797.9	797.8	796.9	795.9	795.0	794.0
162.5°	804.9	805.7	805.8	804.9	804.1	803.3	802.4
165°	815.2	816.3	816.4	815.5	814.4	813.5	812.5
167.5°	823.2	824.3	824.3	823.2	822.0	820.9	819.8
170°	827.6	828.7	828.7	827.6	826.5	825.5	824.3
172.5°	830.6	831.7	831.6	830.4	829.3	828.0	826.8
175°	834.0	835.0	834.9	833.9	832.7	831.6	830.5
177.5°	835.3	836.1	836.1	835.0	833.9	832.7	831.6
180°	833.6	833.6	833.6	833.6	833.6	833.6	833.6

(END OF REPORT)