

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: P331883-830

Luminaire Tested: **S123DIP-S340D805U830-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331883-830  
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-S340D805U830-4F0-1E-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: 4395.3 lumens  
Efficiency: N/A  
Efficacy: 140.9 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

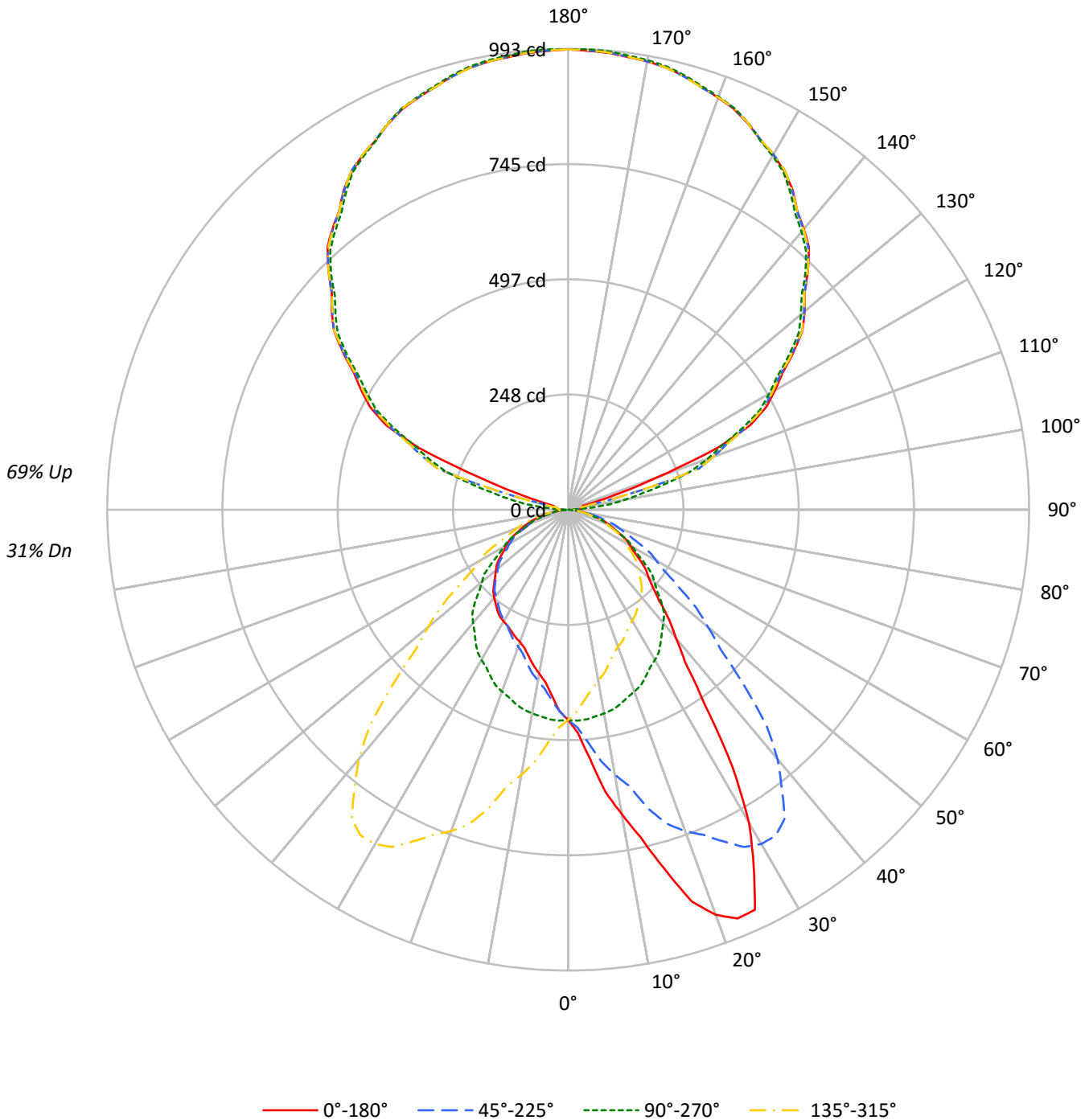
Input Watts (W): 31.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	4878	4878	4878	4878
5°	5817	4900	4341	4900
10°	7282	4875	3922	4875
15°	8931	4835	3651	4835
20°	10639	4774	3477	4774
25°	11297	4700	3437	4700
30°	9684	4645	3455	4645
35°	6734	4568	3491	4568
40°	5073	4477	3481	4477
45°	4211	4341	3436	4341
50°	3773	4068	3404	4068
55°	3526	3772	3363	3772
60°	3309	3460	3328	3460
65°	3110	3156	3222	3156
70°	2917	2807	3068	2807
75°	2612	2458	2816	2458
80°	2287	2015	2424	2015
85°	1791	1470	1630	1470



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CATALOG NUMBER: S123DIP-S340D805U830-4F0-1E-UDD-A

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.6	1.0
10°-20°	143.2	3.3
20°-30°	240.3	5.5
30°-40°	272.0	6.2
40°-50°	244.0	5.6
50°-60°	196.9	4.5
60°-70°	137.2	3.1
70°-80°	72.1	1.6
80°-90°	20.4	0.5
90°-100°	36.1	0.8
100°-110°	171.9	3.9
110°-120°	412.8	9.4
120°-130°	525.7	12.0
130°-140°	561.7	12.8
140°-150°	525.2	11.9
150°-160°	423.7	9.6
160°-170°	273.4	6.2
170°-180°	94.2	2.1
0°-30°	428.1	9.7
0°-40°	700.1	15.9
0°-60°	1140.9	26.0
0°-90°	1370.7	31.2
90°-120°	620.7	14.1
90°-150°	2233.3	50.8
90°-180°	3025.0	68.8
0°-180°	4395.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	453	453	453	453	453	
5°	538	454	402	454	538	56
15°	801	434	328	434	801	231
25°	951	396	289	396	951	417
35°	512	348	266	348	512	333
45°	277	285	226	285	277	219
55°	188	201	179	201	188	169
65°	122	124	126	124	122	122
75°	63	59	68	59	63	67
85°	14	12	13	12	14	18
90°	22	1	22	1	22	11
95°	28	45	28	45	28	23
105°	32	220	32	220	32	74
115°	433	412	433	412	433	400
125°	592	581	592	581	592	529
135°	730	723	730	723	730	563
145°	842	834	842	834	842	526
155°	917	919	917	919	917	423
165°	967	969	967	969	967	273
175°	988	992	988	992	988	94
180°	992	992	992	992	992	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2
2.5°	481.0	480.6	479.8	480.4	479.0	477.1	476.9	475.1	470.0	469.8	468.3
5°	538.4	536.7	536.4	536.2	533.1	529.0	521.0	520.4	509.8	504.6	498.2
7.5°	612.8	613.7	610.5	607.8	598.3	592.1	583.6	572.8	559.9	546.7	538.0
10°	666.2	673.4	664.5	658.3	652.6	641.9	629.3	613.7	598.1	579.9	566.1
12.5°	723.5	727.0	725.2	719.4	710.6	694.2	672.0	654.8	640.5	610.1	597.9
15°	801.4	814.8	806.3	786.6	786.9	771.4	742.4	710.6	693.6	667.0	630.8
17.5°	884.6	886.2	882.6	866.1	855.2	833.7	806.9	776.5	742.2	710.0	671.6
20°	928.8	927.5	919.8	911.3	892.4	875.7	846.5	812.5	768.5	736.9	694.9
22.5°	953.4	951.2	947.5	940.4	924.7	906.8	880.5	843.4	801.5	758.0	709.5
25°	951.2	954.0	954.5	952.5	947.1	936.3	915.7	886.0	844.3	788.2	737.8
27.5°	865.2	869.2	880.9	891.4	903.0	914.8	913.2	898.5	867.6	819.3	757.5
30°	779.1	770.2	792.0	819.4	838.1	871.1	889.5	890.6	873.3	831.8	771.6
32.5°	659.6	669.3	678.9	712.7	753.5	790.4	827.2	856.7	860.1	832.5	779.9
35°	512.5	524.6	542.2	559.7	603.6	641.4	706.0	762.1	806.9	812.8	780.6
37.5°	413.0	419.0	430.1	447.7	476.4	521.2	571.1	642.2	707.1	755.4	757.4
40°	361.0	362.8	375.2	388.6	411.9	448.8	493.8	556.7	634.3	701.8	729.9
42.5°	322.0	325.8	331.2	344.0	362.6	390.3	432.2	484.1	555.3	632.9	687.9
45°	276.6	281.1	284.4	292.9	306.1	324.8	353.9	401.4	455.6	535.7	609.7
47.5°	246.8	247.0	249.5	256.0	264.9	279.0	299.6	330.1	379.8	444.9	520.8
50°	225.3	228.8	229.7	234.7	241.8	252.0	269.2	295.1	335.9	393.0	462.9
52.5°	210.2	211.2	213.7	217.4	223.5	231.5	246.4	266.6	298.7	347.4	411.6
55°	187.9	187.9	190.4	193.2	196.7	204.0	213.9	228.8	253.2	291.0	344.1
57.5°	167.4	168.5	170.2	171.1	174.1	178.9	187.1	198.5	216.6	245.7	287.9
60°	153.7	155.7	155.4	157.2	159.9	163.6	170.6	179.8	196.0	219.3	255.0
62.5°	141.8	141.7	141.6	143.7	146.3	149.9	154.5	162.4	176.3	196.9	227.2
65°	122.1	121.7	123.2	124.5	125.4	128.0	131.5	138.6	147.8	163.2	186.6
67.5°	104.6	103.3	104.2	104.6	106.1	108.2	111.5	115.8	123.1	135.4	153.2
70°	92.7	91.5	91.3	91.8	93.1	94.6	97.1	101.2	108.0	117.9	130.8
72.5°	80.4	79.6	79.6	80.6	81.2	82.2	83.9	87.7	93.1	100.6	112.6
75°	62.8	62.8	62.8	63.1	63.7	64.6	65.9	67.9	72.0	77.3	85.4
77.5°	47.0	47.0	46.8	46.8	47.7	48.1	48.4	50.2	52.6	56.1	62.0
80°	36.9	35.8	36.2	36.9	37.3	37.5	38.2	38.6	40.6	42.6	46.8
82.5°	27.4	26.5	26.6	27.6	27.7	27.9	28.6	29.1	29.9	31.7	33.9
85°	14.5	14.5	14.7	14.7	14.9	14.7	15.4	15.6	15.6	16.7	18.0
87.5°	9.7	9.2	9.4	9.5	9.2	9.3	9.3	9.4	9.4	9.5	9.2
90°	22.1	21.8	21.5	21.1	20.8	20.3	19.6	19.0	18.4	17.7	15.6
92.5°	24.5	24.2	24.0	23.8	23.7	23.1	22.0	20.9	19.9	18.9	17.2
95°	28.0	28.0	28.0	28.0	28.0	27.4	26.3	25.2	24.0	22.8	21.0
97.5°	30.3	30.2	30.1	29.9	29.7	28.9	27.6	26.4	25.1	23.8	35.5
100°	30.9	30.8	30.6	30.4	30.3	29.6	28.3	27.0	25.6	24.3	49.9
102.5°	31.6	31.2	30.9	30.6	30.3	32.2	36.3	40.3	44.4	48.4	76.3
105°	32.4	32.1	31.8	31.5	31.1	45.4	74.5	103.4	132.4	161.4	176.1
107.5°	101.8	123.7	145.5	167.4	189.2	210.8	232.1	253.3	274.6	295.8	293.4
110°	202.6	226.0	249.5	272.9	296.3	310.8	316.1	321.5	327.0	332.3	330.5



TEST NUMBER: P331883-830

CATALOG NUMBER: S123DIP-S340D805U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	347.7	352.6	357.5	362.5	367.4	369.9	369.8	369.7	369.6	369.5	367.7
115°	433.3	432.6	432.0	431.3	430.6	429.5	427.9	426.2	424.6	423.0	421.5
117.5°	481.4	481.2	481.1	481.0	480.8	480.0	478.8	477.5	476.2	474.9	474.1
120°	514.3	514.3	514.3	514.3	514.3	513.7	512.4	511.0	509.7	508.4	507.9
122.5°	546.8	546.7	546.5	546.4	546.2	545.7	544.8	543.8	543.0	542.1	541.4
125°	592.5	592.1	591.8	591.4	591.2	590.8	590.5	590.1	589.8	589.5	588.8
127.5°	636.4	636.7	637.1	637.3	637.6	637.5	637.1	636.5	636.0	635.5	634.7
130°	664.7	665.0	665.3	665.6	666.0	665.8	665.2	664.5	663.8	663.2	662.5
132.5°	690.6	691.1	691.5	692.0	692.4	692.3	691.6	691.0	690.4	689.8	689.2
135°	730.3	730.8	731.2	731.7	732.2	732.2	731.7	731.2	730.8	730.3	729.6
137.5°	767.5	767.9	768.2	768.5	768.8	768.6	767.8	767.0	766.3	765.4	765.1
140°	789.9	790.2	790.6	790.9	791.3	791.1	790.4	789.8	789.1	788.4	788.0
142.5°	810.6	811.1	811.4	811.9	812.4	812.4	811.8	811.3	810.8	810.3	809.7
145°	842.3	842.3	842.3	842.3	842.3	842.1	841.8	841.4	841.1	840.7	840.5
147.5°	865.8	866.6	867.3	868.1	868.8	869.0	868.7	868.4	868.1	867.7	867.4
150°	883.5	884.0	884.5	885.0	885.5	885.5	885.2	884.9	884.6	884.3	883.9
152.5°	897.7	898.4	899.2	899.9	900.7	900.8	900.1	899.6	899.0	898.4	898.2
155°	917.4	918.4	919.4	920.4	921.3	921.4	920.6	919.8	919.0	918.1	917.9
157.5°	934.1	935.4	936.6	937.9	939.1	939.3	938.3	937.4	936.4	935.4	935.6
160°	944.7	945.8	947.0	948.1	949.2	949.3	948.4	947.3	946.4	945.4	945.6
162.5°	954.7	955.7	956.7	957.7	958.8	958.7	957.6	956.5	955.4	954.2	954.4
165°	966.8	967.9	969.0	970.3	971.4	971.3	970.0	968.7	967.3	966.0	966.2
167.5°	975.4	976.8	978.1	979.4	980.7	980.7	979.4	978.1	976.8	975.4	975.4
170°	980.8	982.1	983.4	984.7	986.0	986.0	984.7	983.4	982.1	980.8	980.8
172.5°	983.7	985.1	986.7	988.1	989.5	989.6	988.3	986.9	985.6	984.3	984.2
175°	988.2	989.5	990.8	992.1	993.3	993.4	992.3	991.2	990.0	988.9	988.7
177.5°	989.5	990.8	992.1	993.4	994.8	994.9	993.8	992.8	991.7	990.6	990.5
180°	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8



TEST NUMBER: P331883-830

CATALOG NUMBER: S123DIP-S340D805U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2
2.5°	467.2	465.9	464.5	462.0	459.9	456.9	456.0	455.0	451.8	449.0	446.9
5°	495.8	490.5	482.9	475.8	470.1	462.4	458.1	453.5	446.9	440.9	436.1
7.5°	525.7	515.3	503.3	490.5	478.4	466.8	457.5	449.1	439.9	431.2	424.3
10°	549.4	534.4	517.7	499.7	484.4	469.5	456.9	446.0	434.1	423.8	415.2
12.5°	576.5	554.3	531.3	509.4	491.3	470.5	455.3	441.4	427.9	415.6	406.0
15°	608.4	580.3	553.1	523.0	495.4	469.5	451.5	433.9	418.3	405.6	393.2
17.5°	637.6	605.8	569.9	533.3	499.9	469.2	444.0	424.1	404.6	389.1	376.8
20°	654.1	617.9	577.3	539.3	502.4	468.2	440.5	416.8	395.7	379.2	365.4
22.5°	668.4	625.9	583.9	543.3	502.2	465.3	433.9	409.5	386.7	370.6	355.9
25°	683.2	632.4	590.2	542.6	496.7	458.5	423.4	395.7	372.9	353.9	338.8
27.5°	695.8	632.0	581.9	530.7	488.0	449.7	412.2	382.5	358.3	337.7	322.3
30°	704.2	632.8	573.3	522.6	479.6	440.1	403.6	373.7	348.3	327.4	312.9
32.5°	709.5	632.3	565.4	511.3	466.2	431.2	394.3	363.4	337.1	316.7	302.7
35°	712.6	628.4	551.8	488.1	444.7	410.6	379.7	347.6	320.2	301.0	285.2
37.5°	706.3	620.3	536.0	465.7	418.1	384.7	358.5	331.3	305.0	284.0	270.3
40°	696.7	615.0	523.7	449.9	399.8	367.6	345.4	318.6	292.7	272.7	260.0
42.5°	678.3	604.4	510.2	432.3	380.9	348.6	328.2	305.8	281.3	262.5	249.8
45°	633.3	581.0	489.8	406.0	352.9	319.5	301.5	285.2	263.1	244.9	233.8
47.5°	570.8	545.9	460.5	378.2	323.6	291.5	272.8	259.8	243.6	228.8	218.3
50°	527.4	517.1	440.7	359.2	304.2	272.7	254.7	242.9	231.2	216.5	206.9
52.5°	477.4	483.7	417.5	339.6	284.3	253.4	236.5	227.1	216.5	204.3	196.0
55°	406.9	429.9	377.5	306.5	254.7	225.3	209.2	201.0	194.7	185.8	178.5
57.5°	340.9	370.2	334.1	272.5	225.6	200.3	184.9	175.9	171.9	167.2	161.5
60°	301.7	330.6	303.2	249.7	206.2	182.0	168.4	160.7	156.7	153.4	148.6
62.5°	266.7	296.1	273.1	226.5	187.0	164.7	152.8	145.2	142.2	140.5	136.4
65°	218.7	243.9	228.6	190.4	159.7	139.9	129.1	123.9	121.0	120.4	117.7
67.5°	178.0	197.2	186.1	157.9	133.7	116.7	107.5	103.0	100.9	100.6	98.6
70°	151.3	169.3	160.7	135.3	114.4	101.0	93.1	89.2	87.8	87.7	86.5
72.5°	130.5	143.1	136.3	115.1	99.0	86.8	81.0	76.8	75.4	75.7	74.9
75°	96.6	106.0	102.1	87.4	74.5	66.5	61.7	59.1	57.8	58.4	57.5
77.5°	69.6	75.5	71.9	61.7	53.7	48.1	44.5	42.9	41.7	41.7	41.3
80°	52.5	56.0	54.0	47.9	41.3	36.5	33.6	32.5	31.9	31.6	31.4
82.5°	37.4	40.3	38.0	33.8	29.3	26.4	24.8	23.4	22.9	23.0	22.8
85°	18.9	20.0	19.1	16.5	14.7	13.4	12.5	11.9	11.4	11.6	11.2
87.5°	9.1	9.0	8.0	6.9	6.2	5.4	5.0	4.3	4.3	4.7	4.8
90°	13.4	11.3	9.1	7.3	5.7	4.1	2.4	0.8	2.4	4.1	5.7
92.5°	15.6	14.0	12.4	11.9	12.3	12.8	13.3	13.7	13.3	12.8	12.3
95°	19.2	17.4	15.6	18.1	24.8	31.5	38.3	45.0	38.3	31.5	24.8
97.5°	47.3	59.1	70.9	78.3	81.3	84.4	87.4	90.3	87.4	84.4	81.3
100°	75.4	100.9	126.5	137.6	134.3	131.1	127.8	124.5	127.8	131.1	134.3
102.5°	104.2	132.2	160.1	172.9	170.5	168.1	165.8	163.4	165.8	168.1	170.5
105°	190.9	205.6	220.4	226.8	225.0	223.2	221.4	219.6	221.4	223.2	225.0
107.5°	291.2	288.8	286.4	284.6	283.1	281.7	280.3	278.8	280.3	281.7	283.1
110°	328.8	327.0	325.1	323.6	322.3	320.9	319.6	318.3	319.6	320.9	322.3





TEST NUMBER: P331883-830

CATALOG NUMBER: S123DIP-S340D805U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	365.9	364.1	362.2	360.8	359.6	358.4	357.2	356.1	357.2	358.4	359.6
115°	420.0	418.6	417.1	415.8	414.9	413.9	412.9	411.9	412.9	413.9	414.9
117.5°	473.3	472.6	471.8	470.8	469.7	468.4	467.2	466.0	467.2	468.4	469.7
120°	507.5	507.0	506.5	505.5	504.0	502.6	501.1	499.6	501.1	502.6	504.0
122.5°	540.8	540.2	539.5	538.7	537.4	536.2	535.0	533.8	535.0	536.2	537.4
125°	588.1	587.6	586.9	585.9	584.6	583.2	581.9	580.7	581.9	583.2	584.6
127.5°	634.0	633.1	632.4	631.3	630.0	628.7	627.4	626.0	627.4	628.7	630.0
130°	661.9	661.2	660.5	659.6	658.3	657.0	655.6	654.3	655.6	657.0	658.3
132.5°	688.6	688.2	687.6	686.7	685.4	684.1	682.8	681.5	682.8	684.1	685.4
135°	729.0	728.3	727.6	726.8	725.9	724.8	723.9	722.8	723.9	724.8	725.9
137.5°	764.8	764.4	764.0	763.2	762.0	760.7	759.5	758.3	759.5	760.7	762.0
140°	787.5	787.0	786.5	785.8	784.8	783.8	782.8	781.8	782.8	783.8	784.8
142.5°	809.3	808.8	808.3	807.6	806.6	805.6	804.6	803.6	804.6	805.6	806.6
145°	840.1	839.8	839.4	838.8	837.5	836.4	835.3	834.2	835.3	836.4	837.5
147.5°	867.0	866.8	866.5	865.9	865.2	864.4	863.7	862.9	863.7	864.4	865.2
150°	883.6	883.3	883.0	882.5	882.0	881.6	881.1	880.5	881.1	881.6	882.0
152.5°	898.0	897.8	897.6	897.4	897.2	896.9	896.7	896.5	896.7	896.9	897.2
155°	917.8	917.7	917.5	917.6	917.9	918.2	918.6	918.9	918.6	918.2	917.9
157.5°	935.8	935.9	936.0	936.1	936.1	936.2	936.2	936.2	936.2	936.2	936.1
160°	945.7	945.9	946.0	946.2	946.4	946.6	946.7	946.9	946.7	946.6	946.4
162.5°	954.6	954.7	954.9	955.2	955.6	956.0	956.5	956.9	956.5	956.0	955.6
165°	966.4	966.6	966.7	967.0	967.5	968.0	968.5	969.0	968.5	968.0	967.5
167.5°	975.4	975.4	975.4	975.8	976.5	977.1	977.8	978.5	977.8	977.1	976.5
170°	980.8	980.8	980.8	981.1	981.8	982.4	983.1	983.7	983.1	982.4	981.8
172.5°	984.0	983.9	983.8	984.1	984.9	985.7	986.5	987.2	986.5	985.7	984.9
175°	988.5	988.4	988.3	988.5	989.4	990.2	991.0	991.8	991.0	990.2	989.4
177.5°	990.4	990.2	990.1	990.4	991.1	991.7	992.4	993.0	992.4	991.7	991.1
180°	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8



TEST NUMBER: P331883-830

CATALOG NUMBER: S123DIP-S340D805U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2
2.5°	445.6	444.4	442.7	440.1	437.9	434.6	434.6	435.1	435.1	435.0	434.6
5°	432.2	428.9	424.9	420.3	415.5	410.6	409.7	407.9	406.7	405.8	404.7
7.5°	417.8	412.0	406.2	399.8	393.9	389.1	385.7	382.9	381.1	379.1	377.7
10°	408.2	401.0	394.2	387.4	379.8	373.9	370.2	367.6	365.6	363.8	363.0
12.5°	396.8	388.5	381.0	374.5	366.4	360.2	356.7	355.4	353.2	349.4	347.5
15°	380.1	372.4	363.4	353.5	349.6	342.1	337.9	335.9	334.6	331.8	330.9
17.5°	365.8	355.8	345.6	338.3	330.9	324.9	322.5	320.1	318.4	316.0	315.3
20°	354.4	345.4	336.2	328.3	320.6	314.0	312.0	310.3	308.5	307.5	306.5
22.5°	342.8	333.8	326.1	318.8	310.6	306.2	304.2	302.2	301.0	300.2	299.4
25°	326.5	318.6	310.0	303.5	296.9	294.0	292.7	291.6	290.7	289.6	289.4
27.5°	312.0	303.3	296.4	290.2	285.5	283.1	281.8	281.3	281.5	281.9	282.2
30°	301.0	293.1	287.5	282.2	277.8	275.6	275.3	275.3	276.3	276.4	276.9
32.5°	291.1	284.6	278.8	273.7	270.4	268.9	269.8	269.8	270.4	271.0	271.8
35°	276.4	270.7	266.4	261.9	259.1	259.8	260.2	260.6	261.7	263.1	263.9
37.5°	262.5	257.6	253.0	249.6	248.3	249.4	250.5	251.4	252.7	253.7	254.6
40°	252.5	248.7	244.4	241.3	241.8	242.4	243.3	244.4	245.5	246.2	247.0
42.5°	243.2	239.3	235.9	233.4	234.0	234.9	235.4	235.9	237.2	238.5	238.9
45°	229.0	225.9	222.9	221.3	221.8	222.3	222.6	223.3	224.4	225.3	225.6
47.5°	213.1	210.9	208.9	207.4	208.1	207.9	208.5	209.9	210.2	210.8	212.0
50°	202.9	201.0	198.5	198.0	198.0	198.0	198.3	200.0	200.0	201.0	201.8
52.5°	191.6	190.4	188.9	188.0	187.7	187.7	188.6	189.5	189.8	191.1	192.0
55°	175.0	173.7	172.4	171.7	171.3	171.7	173.4	173.9	175.0	175.7	176.3
57.5°	157.7	156.7	155.6	155.2	155.1	155.7	156.7	158.0	158.3	160.3	161.3
60°	146.3	144.7	143.8	143.8	143.4	145.3	145.0	147.1	147.6	148.9	150.4
62.5°	134.5	132.4	132.1	132.1	132.7	133.3	133.8	134.8	136.0	137.6	138.8
65°	115.5	114.4	115.9	115.7	115.3	116.6	116.6	117.7	119.0	120.6	123.0
67.5°	97.6	97.0	97.1	97.1	97.7	98.5	99.2	100.1	101.7	103.3	104.9
70°	85.4	86.1	85.0	85.9	86.5	86.7	87.2	88.5	90.2	91.3	93.1
72.5°	73.6	73.6	73.7	74.1	74.7	75.1	75.6	77.1	79.0	79.9	81.3
75°	56.6	56.5	57.1	57.1	58.2	58.6	59.1	59.8	61.5	62.8	63.9
77.5°	41.4	41.7	41.5	42.2	41.9	42.0	43.4	44.0	44.2	46.8	47.4
80°	31.2	31.6	31.9	32.0	32.2	31.9	33.4	34.0	34.0	35.5	36.7
82.5°	22.4	22.6	23.2	23.5	23.5	23.9	24.0	24.5	25.1	25.7	27.1
85°	11.2	11.9	12.1	11.9	12.1	11.6	12.3	12.5	12.7	12.7	12.7
87.5°	5.0	5.6	5.7	6.4	6.6	7.3	7.4	7.2	7.3	7.9	7.4
90°	7.3	9.1	11.3	13.4	15.6	17.7	18.4	19.0	19.6	20.3	20.8
92.5°	11.9	12.4	14.0	15.6	17.2	18.9	19.9	20.9	22.0	23.1	23.7
95°	18.1	15.6	17.4	19.2	21.0	22.8	24.0	25.2	26.3	27.4	28.0
97.5°	78.3	70.9	59.1	47.3	35.5	23.8	25.1	26.4	27.6	28.9	29.7
100°	137.6	126.5	100.9	75.4	49.9	24.3	25.6	27.0	28.3	29.6	30.3
102.5°	172.9	160.1	132.2	104.2	76.3	48.4	44.4	40.3	36.3	32.2	30.3
105°	226.8	220.4	205.6	190.9	176.1	161.4	132.4	103.4	74.5	45.4	31.1
107.5°	284.6	286.4	288.8	291.2	293.4	295.8	274.6	253.3	232.1	210.8	189.2
110°	323.6	325.1	327.0	328.8	330.5	332.3	327.0	321.5	316.1	310.8	296.3



TEST NUMBER: P331883-830

CATALOG NUMBER: S123DIP-S340D805U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	360.8	362.2	364.1	365.9	367.7	369.5	369.6	369.7	369.8	369.9	367.4
115°	415.8	417.1	418.6	420.0	421.5	423.0	424.6	426.2	427.9	429.5	430.6
117.5°	470.8	471.8	472.6	473.3	474.1	474.9	476.2	477.5	478.8	480.0	480.8
120°	505.5	506.5	507.0	507.5	507.9	508.4	509.7	511.0	512.4	513.7	514.3
122.5°	538.7	539.5	540.2	540.8	541.4	542.1	543.0	543.8	544.8	545.7	546.2
125°	585.9	586.9	587.6	588.1	588.8	589.5	589.8	590.1	590.5	590.8	591.2
127.5°	631.3	632.4	633.1	634.0	634.7	635.5	636.0	636.5	637.1	637.5	637.6
130°	659.6	660.5	661.2	661.9	662.5	663.2	663.8	664.5	665.2	665.8	666.0
132.5°	686.7	687.6	688.2	688.6	689.2	689.8	690.4	691.0	691.6	692.3	692.4
135°	726.8	727.6	728.3	729.0	729.6	730.3	730.8	731.2	731.7	732.2	732.2
137.5°	763.2	764.0	764.4	764.8	765.1	765.4	766.3	767.0	767.8	768.6	768.8
140°	785.8	786.5	787.0	787.5	788.0	788.4	789.1	789.8	790.4	791.1	791.3
142.5°	807.6	808.3	808.8	809.3	809.7	810.3	810.8	811.3	811.8	812.4	812.4
145°	838.8	839.4	839.8	840.1	840.5	840.7	841.1	841.4	841.8	842.1	842.3
147.5°	865.9	866.5	866.8	867.0	867.4	867.7	868.1	868.4	868.7	869.0	868.8
150°	882.5	883.0	883.3	883.6	883.9	884.3	884.6	884.9	885.2	885.5	885.5
152.5°	897.4	897.6	897.8	898.0	898.2	898.4	899.0	899.6	900.1	900.8	900.7
155°	917.6	917.5	917.7	917.8	917.9	918.1	919.0	919.8	920.6	921.4	921.3
157.5°	936.1	936.0	935.9	935.8	935.6	935.4	936.4	937.4	938.3	939.3	939.1
160°	946.2	946.0	945.9	945.7	945.6	945.4	946.4	947.3	948.4	949.3	949.2
162.5°	955.2	954.9	954.7	954.6	954.4	954.2	955.4	956.5	957.6	958.7	958.8
165°	967.0	966.7	966.6	966.4	966.2	966.0	967.3	968.7	970.0	971.3	971.4
167.5°	975.8	975.4	975.4	975.4	975.4	975.4	976.8	978.1	979.4	980.7	980.7
170°	981.1	980.8	980.8	980.8	980.8	980.8	982.1	983.4	984.7	986.0	986.0
172.5°	984.1	983.8	983.9	984.0	984.2	984.3	985.6	986.9	988.3	989.6	989.5
175°	988.5	988.3	988.4	988.5	988.7	988.9	990.0	991.2	992.3	993.4	993.3
177.5°	990.4	990.1	990.2	990.4	990.5	990.6	991.7	992.8	993.8	994.9	994.8
180°	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8



TEST NUMBER: P331883-830

CATALOG NUMBER: S123DIP-S340D805U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2
2.5°	433.4	433.2	434.4	433.6	434.4	433.2	433.4	434.6	435.0	435.1	435.1
5°	403.4	404.1	401.8	401.8	401.8	404.1	403.4	404.7	405.8	406.7	407.9
7.5°	376.6	375.7	375.8	374.6	375.8	375.7	376.6	377.7	379.1	381.1	382.9
10°	360.3	359.0	358.5	358.8	358.5	359.0	360.3	363.0	363.8	365.6	367.6
12.5°	346.8	346.6	343.7	343.7	343.7	346.6	346.8	347.5	349.4	353.2	355.4
15°	330.9	326.8	326.3	327.6	326.3	326.8	330.9	330.9	331.8	334.6	335.9
17.5°	315.0	312.7	312.9	312.3	312.9	312.7	315.0	315.3	316.0	318.4	320.1
20°	306.5	305.2	305.0	303.5	305.0	305.2	306.5	306.5	307.5	308.5	310.3
22.5°	298.8	298.4	298.5	296.8	298.5	298.4	298.8	299.4	300.2	301.0	302.2
25°	289.2	290.3	289.4	289.4	289.4	290.3	289.2	289.4	289.6	290.7	291.6
27.5°	282.7	282.7	282.2	282.2	282.2	282.7	282.7	282.2	281.9	281.5	281.3
30°	277.8	277.6	278.0	278.0	278.0	277.6	277.8	276.9	276.4	276.3	275.3
32.5°	272.9	273.1	273.2	273.4	273.2	273.1	272.9	271.8	271.0	270.4	269.8
35°	265.2	265.5	266.2	265.7	266.2	265.5	265.2	263.9	263.1	261.7	260.6
37.5°	255.0	256.0	255.8	256.1	255.8	256.0	255.0	254.6	253.7	252.7	251.4
40°	247.2	247.9	247.7	247.7	247.7	247.9	247.2	247.0	246.2	245.5	244.4
42.5°	239.3	239.8	239.2	238.9	239.2	239.8	239.3	238.9	238.5	237.2	235.9
45°	226.4	225.9	226.6	225.7	226.6	225.9	226.4	225.6	225.3	224.4	223.3
47.5°	211.9	212.4	212.5	213.2	212.5	212.4	211.9	212.0	210.8	210.2	209.9
50°	202.3	203.6	203.6	203.3	203.6	203.6	202.3	201.8	201.0	200.0	200.0
52.5°	192.7	193.3	194.3	194.2	194.3	193.3	192.7	192.0	191.1	189.8	189.5
55°	178.0	178.5	179.0	179.2	179.0	178.5	178.0	176.3	175.7	175.0	173.9
57.5°	162.9	162.7	163.7	164.1	163.7	162.7	162.9	161.3	160.3	158.3	158.0
60°	152.1	152.1	153.9	154.6	153.9	152.1	152.1	150.4	148.9	147.6	147.1
62.5°	140.7	141.5	143.2	142.3	143.2	141.5	140.7	138.8	137.6	136.0	134.8
65°	124.0	125.8	125.6	126.5	125.6	125.8	124.0	123.0	120.6	119.0	117.7
67.5°	106.6	107.7	109.3	109.4	109.3	107.7	106.6	104.9	103.3	101.7	100.1
70°	94.8	96.0	96.8	97.5	96.8	96.0	94.8	93.1	91.3	90.2	88.5
72.5°	83.4	84.0	86.1	85.2	86.1	84.0	83.4	81.3	79.9	79.0	77.1
75°	65.4	67.0	68.3	67.7	68.3	67.0	65.4	63.9	62.8	61.5	59.8
77.5°	48.4	50.0	50.5	50.0	50.5	50.0	48.4	47.4	46.8	44.2	44.0
80°	38.2	38.0	39.3	39.1	39.3	38.0	38.2	36.7	35.5	34.0	34.0
82.5°	28.0	27.8	28.4	28.6	28.4	27.8	28.0	27.1	25.7	25.1	24.5
85°	13.6	14.2	13.4	13.2	13.4	14.2	13.6	12.7	12.7	12.7	12.5
87.5°	7.4	7.4	7.4	7.3	7.4	7.4	7.4	7.4	7.9	7.3	7.2
90°	21.1	21.5	21.8	22.1	21.8	21.5	21.1	20.8	20.3	19.6	19.0
92.5°	23.8	24.0	24.2	24.5	24.2	24.0	23.8	23.7	23.1	22.0	20.9
95°	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	27.4	26.3	25.2
97.5°	29.9	30.1	30.2	30.3	30.2	30.1	29.9	29.7	28.9	27.6	26.4
100°	30.4	30.6	30.8	30.9	30.8	30.6	30.4	30.3	29.6	28.3	27.0
102.5°	30.6	30.9	31.2	31.6	31.2	30.9	30.6	30.3	32.2	36.3	40.3
105°	31.5	31.8	32.1	32.4	32.1	31.8	31.5	31.1	45.4	74.5	103.4
107.5°	167.4	145.5	123.7	101.8	123.7	145.5	167.4	189.2	210.8	232.1	253.3
110°	272.9	249.5	226.0	202.6	226.0	249.5	272.9	296.3	310.8	316.1	321.5



TEST NUMBER: P331883-830

CATALOG NUMBER: S123DIP-S340D805U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	362.5	357.5	352.6	347.7	352.6	357.5	362.5	367.4	369.9	369.8	369.7
115°	431.3	432.0	432.6	433.3	432.6	432.0	431.3	430.6	429.5	427.9	426.2
117.5°	481.0	481.1	481.2	481.4	481.2	481.1	481.0	480.8	480.0	478.8	477.5
120°	514.3	514.3	514.3	514.3	514.3	514.3	514.3	514.3	513.7	512.4	511.0
122.5°	546.4	546.5	546.7	546.8	546.7	546.5	546.4	546.2	545.7	544.8	543.8
125°	591.4	591.8	592.1	592.5	592.1	591.8	591.4	591.2	590.8	590.5	590.1
127.5°	637.3	637.1	636.7	636.4	636.7	637.1	637.3	637.6	637.5	637.1	636.5
130°	665.6	665.3	665.0	664.7	665.0	665.3	665.6	666.0	665.8	665.2	664.5
132.5°	692.0	691.5	691.1	690.6	691.1	691.5	692.0	692.4	692.3	691.6	691.0
135°	731.7	731.2	730.8	730.3	730.8	731.2	731.7	732.2	732.2	731.7	731.2
137.5°	768.5	768.2	767.9	767.5	767.9	768.2	768.5	768.8	768.6	767.8	767.0
140°	790.9	790.6	790.2	789.9	790.2	790.6	790.9	791.3	791.1	790.4	789.8
142.5°	811.9	811.4	811.1	810.6	811.1	811.4	811.9	812.4	812.4	811.8	811.3
145°	842.3	842.3	842.3	842.3	842.3	842.3	842.3	842.3	842.1	841.8	841.4
147.5°	868.1	867.3	866.6	865.8	866.6	867.3	868.1	868.8	869.0	868.7	868.4
150°	885.0	884.5	884.0	883.5	884.0	884.5	885.0	885.5	885.5	885.2	884.9
152.5°	899.9	899.2	898.4	897.7	898.4	899.2	899.9	900.7	900.8	900.1	899.6
155°	920.4	919.4	918.4	917.4	918.4	919.4	920.4	921.3	921.4	920.6	919.8
157.5°	937.9	936.6	935.4	934.1	935.4	936.6	937.9	939.1	939.3	938.3	937.4
160°	948.1	947.0	945.8	944.7	945.8	947.0	948.1	949.2	949.3	948.4	947.3
162.5°	957.7	956.7	955.7	954.7	955.7	956.7	957.7	958.8	958.7	957.6	956.5
165°	970.3	969.0	967.9	966.8	967.9	969.0	970.3	971.4	971.3	970.0	968.7
167.5°	979.4	978.1	976.8	975.4	976.8	978.1	979.4	980.7	980.7	979.4	978.1
170°	984.7	983.4	982.1	980.8	982.1	983.4	984.7	986.0	986.0	984.7	983.4
172.5°	988.1	986.7	985.1	983.7	985.1	986.7	988.1	989.5	989.6	988.3	986.9
175°	992.1	990.8	989.5	988.2	989.5	990.8	992.1	993.3	993.4	992.3	991.2
177.5°	993.4	992.1	990.8	989.5	990.8	992.1	993.4	994.8	994.9	993.8	992.8
180°	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8



TEST NUMBER: P331883-830

CATALOG NUMBER: S123DIP-S340D805U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2
2.5°	434.6	434.6	437.9	440.1	442.7	444.4	445.6	446.9	449.0	451.8	455.0
5°	409.7	410.6	415.5	420.3	424.9	428.9	432.2	436.1	440.9	446.9	453.5
7.5°	385.7	389.1	393.9	399.8	406.2	412.0	417.8	424.3	431.2	439.9	449.1
10°	370.2	373.9	379.8	387.4	394.2	401.0	408.2	415.2	423.8	434.1	446.0
12.5°	356.7	360.2	366.4	374.5	381.0	388.5	396.8	406.0	415.6	427.9	441.4
15°	337.9	342.1	349.6	353.5	363.4	372.4	380.1	393.2	405.6	418.3	433.9
17.5°	322.5	324.9	330.9	338.3	345.6	355.8	365.8	376.8	389.1	404.6	424.1
20°	312.0	314.0	320.6	328.3	336.2	345.4	354.4	365.4	379.2	395.7	416.8
22.5°	304.2	306.2	310.6	318.8	326.1	333.8	342.8	355.9	370.6	386.7	409.5
25°	292.7	294.0	296.9	303.5	310.0	318.6	326.5	338.8	353.9	372.9	395.7
27.5°	281.8	283.1	285.5	290.2	296.4	303.3	312.0	322.3	337.7	358.3	382.5
30°	275.3	275.6	277.8	282.2	287.5	293.1	301.0	312.9	327.4	348.3	373.7
32.5°	269.8	268.9	270.4	273.7	278.8	284.6	291.1	302.7	316.7	337.1	363.4
35°	260.2	259.8	259.1	261.9	266.4	270.7	276.4	285.2	301.0	320.2	347.6
37.5°	250.5	249.4	248.3	249.6	253.0	257.6	262.5	270.3	284.0	305.0	331.3
40°	243.3	242.4	241.8	241.3	244.4	248.7	252.5	260.0	272.7	292.7	318.6
42.5°	235.4	234.9	234.0	233.4	235.9	239.3	243.2	249.8	262.5	281.3	305.8
45°	222.6	222.3	221.8	221.3	222.9	225.9	229.0	233.8	244.9	263.1	285.2
47.5°	208.5	207.9	208.1	207.4	208.9	210.9	213.1	218.3	228.8	243.6	259.8
50°	198.3	198.0	198.0	198.0	198.5	201.0	202.9	206.9	216.5	231.2	242.9
52.5°	188.6	187.7	187.7	188.0	188.9	190.4	191.6	196.0	204.3	216.5	227.1
55°	173.4	171.7	171.3	171.7	172.4	173.7	175.0	178.5	185.8	194.7	201.0
57.5°	156.7	155.7	155.1	155.2	155.6	156.7	157.7	161.5	167.2	171.9	175.9
60°	145.0	145.3	143.4	143.8	143.8	144.7	146.3	148.6	153.4	156.7	160.7
62.5°	133.8	133.3	132.7	132.1	132.1	132.4	134.5	136.4	140.5	142.2	145.2
65°	116.6	116.6	115.3	115.7	115.9	114.4	115.5	117.7	120.4	121.0	123.9
67.5°	99.2	98.5	97.7	97.1	97.1	97.0	97.6	98.6	100.6	100.9	103.0
70°	87.2	86.7	86.5	85.9	85.0	86.1	85.4	86.5	87.7	87.8	89.2
72.5°	75.6	75.1	74.7	74.1	73.7	73.6	73.6	74.9	75.7	75.4	76.8
75°	59.1	58.6	58.2	57.1	57.1	56.5	56.6	57.5	58.4	57.8	59.1
77.5°	43.4	42.0	41.9	42.2	41.5	41.7	41.4	41.3	41.7	41.7	42.9
80°	33.4	31.9	32.2	32.0	31.9	31.6	31.2	31.4	31.6	31.9	32.5
82.5°	24.0	23.9	23.5	23.5	23.2	22.6	22.4	22.8	23.0	22.9	23.4
85°	12.3	11.6	12.1	11.9	12.1	11.9	11.2	11.2	11.6	11.4	11.9
87.5°	7.4	7.3	6.6	6.4	5.7	5.6	5.0	4.8	4.7	4.3	4.3
90°	18.4	17.7	15.6	13.4	11.3	9.1	7.3	5.7	4.1	2.4	0.8
92.5°	19.9	18.9	17.2	15.6	14.0	12.4	11.9	12.3	12.8	13.3	13.7
95°	24.0	22.8	21.0	19.2	17.4	15.6	18.1	24.8	31.5	38.3	45.0
97.5°	25.1	23.8	35.5	47.3	59.1	70.9	78.3	81.3	84.4	87.4	90.3
100°	25.6	24.3	49.9	75.4	100.9	126.5	137.6	134.3	131.1	127.8	124.5
102.5°	44.4	48.4	76.3	104.2	132.2	160.1	172.9	170.5	168.1	165.8	163.4
105°	132.4	161.4	176.1	190.9	205.6	220.4	226.8	225.0	223.2	221.4	219.6
107.5°	274.6	295.8	293.4	291.2	288.8	286.4	284.6	283.1	281.7	280.3	278.8
110°	327.0	332.3	330.5	328.8	327.0	325.1	323.6	322.3	320.9	319.6	318.3



TEST NUMBER: P331883-830

CATALOG NUMBER: S123DIP-S340D805U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	369.6	369.5	367.7	365.9	364.1	362.2	360.8	359.6	358.4	357.2	356.1
115°	424.6	423.0	421.5	420.0	418.6	417.1	415.8	414.9	413.9	412.9	411.9
117.5°	476.2	474.9	474.1	473.3	472.6	471.8	470.8	469.7	468.4	467.2	466.0
120°	509.7	508.4	507.9	507.5	507.0	506.5	505.5	504.0	502.6	501.1	499.6
122.5°	543.0	542.1	541.4	540.8	540.2	539.5	538.7	537.4	536.2	535.0	533.8
125°	589.8	589.5	588.8	588.1	587.6	586.9	585.9	584.6	583.2	581.9	580.7
127.5°	636.0	635.5	634.7	634.0	633.1	632.4	631.3	630.0	628.7	627.4	626.0
130°	663.8	663.2	662.5	661.9	661.2	660.5	659.6	658.3	657.0	655.6	654.3
132.5°	690.4	689.8	689.2	688.6	688.2	687.6	686.7	685.4	684.1	682.8	681.5
135°	730.8	730.3	729.6	729.0	728.3	727.6	726.8	725.9	724.8	723.9	722.8
137.5°	766.3	765.4	765.1	764.8	764.4	764.0	763.2	762.0	760.7	759.5	758.3
140°	789.1	788.4	788.0	787.5	787.0	786.5	785.8	784.8	783.8	782.8	781.8
142.5°	810.8	810.3	809.7	809.3	808.8	808.3	807.6	806.6	805.6	804.6	803.6
145°	841.1	840.7	840.5	840.1	839.8	839.4	838.8	837.5	836.4	835.3	834.2
147.5°	868.1	867.7	867.4	867.0	866.8	866.5	865.9	865.2	864.4	863.7	862.9
150°	884.6	884.3	883.9	883.6	883.3	883.0	882.5	882.0	881.6	881.1	880.5
152.5°	899.0	898.4	898.2	898.0	897.8	897.6	897.4	897.2	896.9	896.7	896.5
155°	919.0	918.1	917.9	917.8	917.7	917.5	917.6	917.9	918.2	918.6	918.9
157.5°	936.4	935.4	935.6	935.8	935.9	936.0	936.1	936.1	936.2	936.2	936.2
160°	946.4	945.4	945.6	945.7	945.9	946.0	946.2	946.4	946.6	946.7	946.9
162.5°	955.4	954.2	954.4	954.6	954.7	954.9	955.2	955.6	956.0	956.5	956.9
165°	967.3	966.0	966.2	966.4	966.6	966.7	967.0	967.5	968.0	968.5	969.0
167.5°	976.8	975.4	975.4	975.4	975.4	975.4	975.8	976.5	977.1	977.8	978.5
170°	982.1	980.8	980.8	980.8	980.8	980.8	981.1	981.8	982.4	983.1	983.7
172.5°	985.6	984.3	984.2	984.0	983.9	983.8	984.1	984.9	985.7	986.5	987.2
175°	990.0	988.9	988.7	988.5	988.4	988.3	988.5	989.4	990.2	991.0	991.8
177.5°	991.7	990.6	990.5	990.4	990.2	990.1	990.4	991.1	991.7	992.4	993.0
180°	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8



TEST NUMBER: P331883-830

CATALOG NUMBER: S123DIP-S340D805U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2
2.5°	456.0	456.9	459.9	462.0	464.5	465.9	467.2	468.3	469.8	470.0	475.1
5°	458.1	462.4	470.1	475.8	482.9	490.5	495.8	498.2	504.6	509.8	520.4
7.5°	457.5	466.8	478.4	490.5	503.3	515.3	525.7	538.0	546.7	559.9	572.8
10°	456.9	469.5	484.4	499.7	517.7	534.4	549.4	566.1	579.9	598.1	613.7
12.5°	455.3	470.5	491.3	509.4	531.3	554.3	576.5	597.9	610.1	640.5	654.8
15°	451.5	469.5	495.4	523.0	553.1	580.3	608.4	630.8	667.0	693.6	710.6
17.5°	444.0	469.2	499.9	533.3	569.9	605.8	637.6	671.6	710.0	742.2	776.5
20°	440.5	468.2	502.4	539.3	577.3	617.9	654.1	694.9	736.9	768.5	812.5
22.5°	433.9	465.3	502.2	543.3	583.9	625.9	668.4	709.5	758.0	801.5	843.4
25°	423.4	458.5	496.7	542.6	590.2	632.4	683.2	737.8	788.2	844.3	886.0
27.5°	412.2	449.7	488.0	530.7	581.9	632.0	695.8	757.5	819.3	867.6	898.5
30°	403.6	440.1	479.6	522.6	573.3	632.8	704.2	771.6	831.8	873.3	890.6
32.5°	394.3	431.2	466.2	511.3	565.4	632.3	709.5	779.9	832.5	860.1	856.7
35°	379.7	410.6	444.7	488.1	551.8	628.4	712.6	780.6	812.8	806.9	762.1
37.5°	358.5	384.7	418.1	465.7	536.0	620.3	706.3	757.4	755.4	707.1	642.2
40°	345.4	367.6	399.8	449.9	523.7	615.0	696.7	729.9	701.8	634.3	556.7
42.5°	328.2	348.6	380.9	432.3	510.2	604.4	678.3	687.9	632.9	555.3	484.1
45°	301.5	319.5	352.9	406.0	489.8	581.0	633.3	609.7	535.7	455.6	401.4
47.5°	272.8	291.5	323.6	378.2	460.5	545.9	570.8	520.8	444.9	379.8	330.1
50°	254.7	272.7	304.2	359.2	440.7	517.1	527.4	462.9	393.0	335.9	295.1
52.5°	236.5	253.4	284.3	339.6	417.5	483.7	477.4	411.6	347.4	298.7	266.6
55°	209.2	225.3	254.7	306.5	377.5	429.9	406.9	344.1	291.0	253.2	228.8
57.5°	184.9	200.3	225.6	272.5	334.1	370.2	340.9	287.9	245.7	216.6	198.5
60°	168.4	182.0	206.2	249.7	303.2	330.6	301.7	255.0	219.3	196.0	179.8
62.5°	152.8	164.7	187.0	226.5	273.1	296.1	266.7	227.2	196.9	176.3	162.4
65°	129.1	139.9	159.7	190.4	228.6	243.9	218.7	186.6	163.2	147.8	138.6
67.5°	107.5	116.7	133.7	157.9	186.1	197.2	178.0	153.2	135.4	123.1	115.8
70°	93.1	101.0	114.4	135.3	160.7	169.3	151.3	130.8	117.9	108.0	101.2
72.5°	81.0	86.8	99.0	115.1	136.3	143.1	130.5	112.6	100.6	93.1	87.7
75°	61.7	66.5	74.5	87.4	102.1	106.0	96.6	85.4	77.3	72.0	67.9
77.5°	44.5	48.1	53.7	61.7	71.9	75.5	69.6	62.0	56.1	52.6	50.2
80°	33.6	36.5	41.3	47.9	54.0	56.0	52.5	46.8	42.6	40.6	38.6
82.5°	24.8	26.4	29.3	33.8	38.0	40.3	37.4	33.9	31.7	29.9	29.1
85°	12.5	13.4	14.7	16.5	19.1	20.0	18.9	18.0	16.7	15.6	15.6
87.5°	5.0	5.4	6.2	6.9	8.0	9.0	9.1	9.2	9.5	9.4	9.4
90°	2.4	4.1	5.7	7.3	9.1	11.3	13.4	15.6	17.7	18.4	19.0
92.5°	13.3	12.8	12.3	11.9	12.4	14.0	15.6	17.2	18.9	19.9	20.9
95°	38.3	31.5	24.8	18.1	15.6	17.4	19.2	21.0	22.8	24.0	25.2
97.5°	87.4	84.4	81.3	78.3	70.9	59.1	47.3	35.5	23.8	25.1	26.4
100°	127.8	131.1	134.3	137.6	126.5	100.9	75.4	49.9	24.3	25.6	27.0
102.5°	165.8	168.1	170.5	172.9	160.1	132.2	104.2	76.3	48.4	44.4	40.3
105°	221.4	223.2	225.0	226.8	220.4	205.6	190.9	176.1	161.4	132.4	103.4
107.5°	280.3	281.7	283.1	284.6	286.4	288.8	291.2	293.4	295.8	274.6	253.3
110°	319.6	320.9	322.3	323.6	325.1	327.0	328.8	330.5	332.3	327.0	321.5





TEST NUMBER: P331883-830

CATALOG NUMBER: S123DIP-S340D805U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	357.2	358.4	359.6	360.8	362.2	364.1	365.9	367.7	369.5	369.6	369.7
115°	412.9	413.9	414.9	415.8	417.1	418.6	420.0	421.5	423.0	424.6	426.2
117.5°	467.2	468.4	469.7	470.8	471.8	472.6	473.3	474.1	474.9	476.2	477.5
120°	501.1	502.6	504.0	505.5	506.5	507.0	507.5	507.9	508.4	509.7	511.0
122.5°	535.0	536.2	537.4	538.7	539.5	540.2	540.8	541.4	542.1	543.0	543.8
125°	581.9	583.2	584.6	585.9	586.9	587.6	588.1	588.8	589.5	589.8	590.1
127.5°	627.4	628.7	630.0	631.3	632.4	633.1	634.0	634.7	635.5	636.0	636.5
130°	655.6	657.0	658.3	659.6	660.5	661.2	661.9	662.5	663.2	663.8	664.5
132.5°	682.8	684.1	685.4	686.7	687.6	688.2	688.6	689.2	689.8	690.4	691.0
135°	723.9	724.8	725.9	726.8	727.6	728.3	729.0	729.6	730.3	730.8	731.2
137.5°	759.5	760.7	762.0	763.2	764.0	764.4	764.8	765.1	765.4	766.3	767.0
140°	782.8	783.8	784.8	785.8	786.5	787.0	787.5	788.0	788.4	789.1	789.8
142.5°	804.6	805.6	806.6	807.6	808.3	808.8	809.3	809.7	810.3	810.8	811.3
145°	835.3	836.4	837.5	838.8	839.4	839.8	840.1	840.5	840.7	841.1	841.4
147.5°	863.7	864.4	865.2	865.9	866.5	866.8	867.0	867.4	867.7	868.1	868.4
150°	881.1	881.6	882.0	882.5	883.0	883.3	883.6	883.9	884.3	884.6	884.9
152.5°	896.7	896.9	897.2	897.4	897.6	897.8	898.0	898.2	898.4	899.0	899.6
155°	918.6	918.2	917.9	917.6	917.5	917.7	917.8	917.9	918.1	919.0	919.8
157.5°	936.2	936.2	936.1	936.1	936.0	935.9	935.8	935.6	935.4	936.4	937.4
160°	946.7	946.6	946.4	946.2	946.0	945.9	945.7	945.6	945.4	946.4	947.3
162.5°	956.5	956.0	955.6	955.2	954.9	954.7	954.6	954.4	954.2	955.4	956.5
165°	968.5	968.0	967.5	967.0	966.7	966.6	966.4	966.2	966.0	967.3	968.7
167.5°	977.8	977.1	976.5	975.8	975.4	975.4	975.4	975.4	975.4	976.8	978.1
170°	983.1	982.4	981.8	981.1	980.8	980.8	980.8	980.8	980.8	982.1	983.4
172.5°	986.5	985.7	984.9	984.1	983.8	983.9	984.0	984.2	984.3	985.6	986.9
175°	991.0	990.2	989.4	988.5	988.3	988.4	988.5	988.7	988.9	990.0	991.2
177.5°	992.4	991.7	991.1	990.4	990.1	990.2	990.4	990.5	990.6	991.7	992.8
180°	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8



TEST NUMBER: P331883-830

CATALOG NUMBER: S123DIP-S340D805U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	453.2	453.2	453.2	453.2	453.2	453.2	453.2
2.5°	476.9	477.1	479.0	480.4	479.8	480.6	481.0
5°	521.0	529.0	533.1	536.2	536.4	536.7	538.4
7.5°	583.6	592.1	598.3	607.8	610.5	613.7	612.8
10°	629.3	641.9	652.6	658.3	664.5	673.4	666.2
12.5°	672.0	694.2	710.6	719.4	725.2	727.0	723.5
15°	742.4	771.4	786.9	786.6	806.3	814.8	801.4
17.5°	806.9	833.7	855.2	866.1	882.6	886.2	884.6
20°	846.5	875.7	892.4	911.3	919.8	927.5	928.8
22.5°	880.5	906.8	924.7	940.4	947.5	951.2	953.4
25°	915.7	936.3	947.1	952.5	954.5	954.0	951.2
27.5°	913.2	914.8	903.0	891.4	880.9	869.2	865.2
30°	889.5	871.1	838.1	819.4	792.0	770.2	779.1
32.5°	827.2	790.4	753.5	712.7	678.9	669.3	659.6
35°	706.0	641.4	603.6	559.7	542.2	524.6	512.5
37.5°	571.1	521.2	476.4	447.7	430.1	419.0	413.0
40°	493.8	448.8	411.9	388.6	375.2	362.8	361.0
42.5°	432.2	390.3	362.6	344.0	331.2	325.8	322.0
45°	353.9	324.8	306.1	292.9	284.4	281.1	276.6
47.5°	299.6	279.0	264.9	256.0	249.5	247.0	246.8
50°	269.2	252.0	241.8	234.7	229.7	228.8	225.3
52.5°	246.4	231.5	223.5	217.4	213.7	211.2	210.2
55°	213.9	204.0	196.7	193.2	190.4	187.9	187.9
57.5°	187.1	178.9	174.1	171.1	170.2	168.5	167.4
60°	170.6	163.6	159.9	157.2	155.4	155.7	153.7
62.5°	154.5	149.9	146.3	143.7	141.6	141.7	141.8
65°	131.5	128.0	125.4	124.5	123.2	121.7	122.1
67.5°	111.5	108.2	106.1	104.6	104.2	103.3	104.6
70°	97.1	94.6	93.1	91.8	91.3	91.5	92.7
72.5°	83.9	82.2	81.2	80.6	79.6	79.6	80.4
75°	65.9	64.6	63.7	63.1	62.8	62.8	62.8
77.5°	48.4	48.1	47.7	46.8	46.8	47.0	47.0
80°	38.2	37.5	37.3	36.9	36.2	35.8	36.9
82.5°	28.6	27.9	27.7	27.6	26.6	26.5	27.4
85°	15.4	14.7	14.9	14.7	14.7	14.5	14.5
87.5°	9.3	9.3	9.2	9.5	9.4	9.2	9.7
90°	19.6	20.3	20.8	21.1	21.5	21.8	22.1
92.5°	22.0	23.1	23.7	23.8	24.0	24.2	24.5
95°	26.3	27.4	28.0	28.0	28.0	28.0	28.0
97.5°	27.6	28.9	29.7	29.9	30.1	30.2	30.3
100°	28.3	29.6	30.3	30.4	30.6	30.8	30.9
102.5°	36.3	32.2	30.3	30.6	30.9	31.2	31.6
105°	74.5	45.4	31.1	31.5	31.8	32.1	32.4
107.5°	232.1	210.8	189.2	167.4	145.5	123.7	101.8
110°	316.1	310.8	296.3	272.9	249.5	226.0	202.6



TEST NUMBER: P331883-830

CATALOG NUMBER: S123DIP-S340D805U830-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	369.8	369.9	367.4	362.5	357.5	352.6	347.7
115°	427.9	429.5	430.6	431.3	432.0	432.6	433.3
117.5°	478.8	480.0	480.8	481.0	481.1	481.2	481.4
120°	512.4	513.7	514.3	514.3	514.3	514.3	514.3
122.5°	544.8	545.7	546.2	546.4	546.5	546.7	546.8
125°	590.5	590.8	591.2	591.4	591.8	592.1	592.5
127.5°	637.1	637.5	637.6	637.3	637.1	636.7	636.4
130°	665.2	665.8	666.0	665.6	665.3	665.0	664.7
132.5°	691.6	692.3	692.4	692.0	691.5	691.1	690.6
135°	731.7	732.2	732.2	731.7	731.2	730.8	730.3
137.5°	767.8	768.6	768.8	768.5	768.2	767.9	767.5
140°	790.4	791.1	791.3	790.9	790.6	790.2	789.9
142.5°	811.8	812.4	812.4	811.9	811.4	811.1	810.6
145°	841.8	842.1	842.3	842.3	842.3	842.3	842.3
147.5°	868.7	869.0	868.8	868.1	867.3	866.6	865.8
150°	885.2	885.5	885.5	885.0	884.5	884.0	883.5
152.5°	900.1	900.8	900.7	899.9	899.2	898.4	897.7
155°	920.6	921.4	921.3	920.4	919.4	918.4	917.4
157.5°	938.3	939.3	939.1	937.9	936.6	935.4	934.1
160°	948.4	949.3	949.2	948.1	947.0	945.8	944.7
162.5°	957.6	958.7	958.8	957.7	956.7	955.7	954.7
165°	970.0	971.3	971.4	970.3	969.0	967.9	966.8
167.5°	979.4	980.7	980.7	979.4	978.1	976.8	975.4
170°	984.7	986.0	986.0	984.7	983.4	982.1	980.8
172.5°	988.3	989.6	989.5	988.1	986.7	985.1	983.7
175°	992.3	993.4	993.3	992.1	990.8	989.5	988.2
177.5°	993.8	994.9	994.8	993.4	992.1	990.8	989.5
180°	991.8	991.8	991.8	991.8	991.8	991.8	991.8

(END OF REPORT)