

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: P331884-830

Luminaire Tested: **S123DIP-S340D805U830-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331884-830  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,  
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-A1  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 805 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3969.8 lumens  
Efficiency: N/A  
Efficacy: 127.2 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

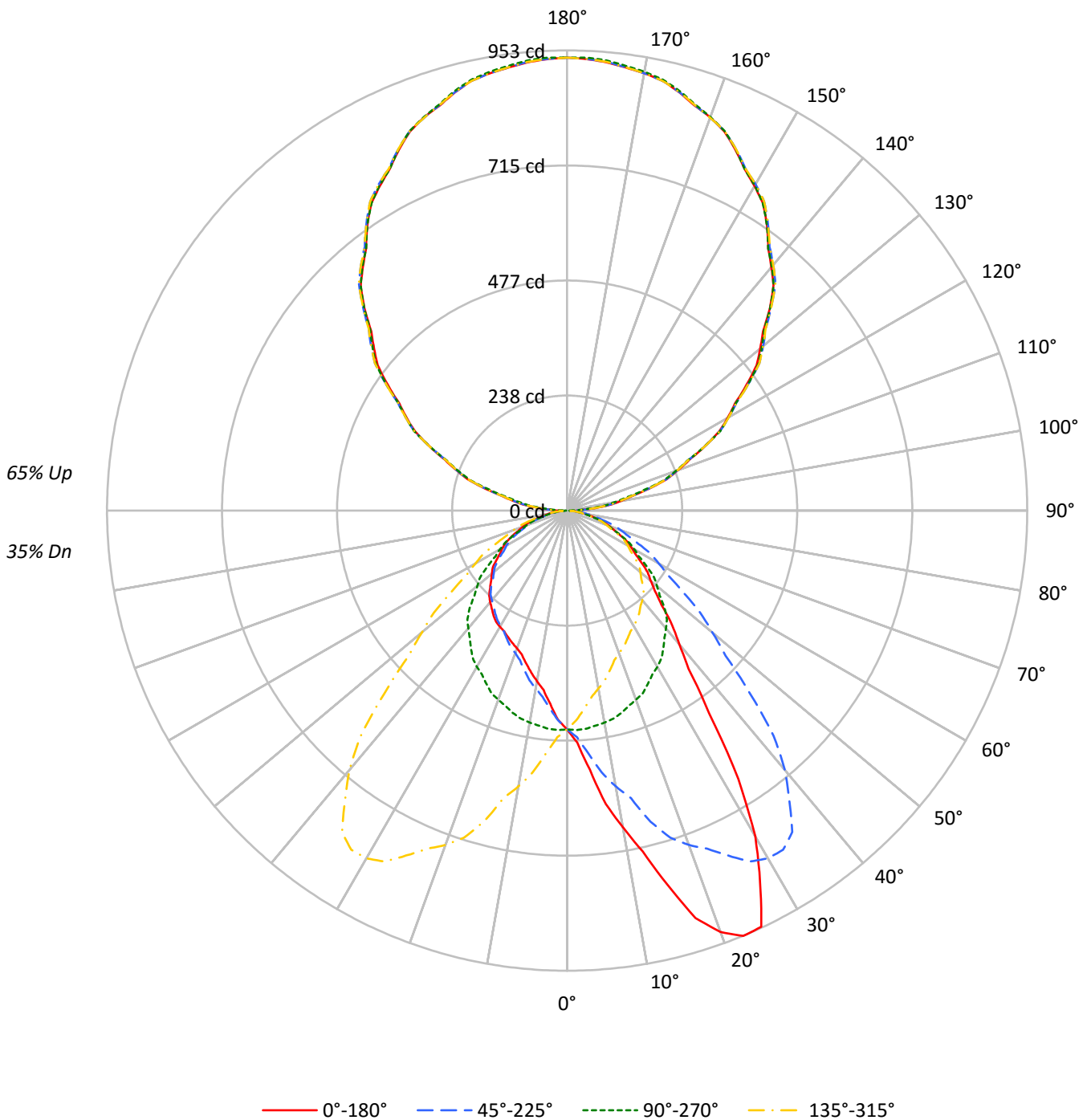
Input Watts (W): 31.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P331884-830

CATALOG NUMBER: S123DIP-S340D805U830-4F0-1E-UDD-A1

### Luminous Intensity Polar Plot





TEST NUMBER: P331884-830

CATALOG NUMBER: S123DIP-S340D805U830-4F0-1E-UDD-A1

**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	50	30	10	50	30	10	0		
RCR																										
0	103	103	103	103	93	93	93	93	75	75	75	58	58	58	42	42	42	35								
1	95	90	87	83	85	82	79	76	66	64	62	51	50	48	37	36	36	29								
2	86	79	73	68	78	72	67	62	58	54	51	45	43	41	33	32	30	25								
3	79	70	63	57	71	63	57	52	51	47	43	40	37	34	29	28	26	21								
4	72	62	54	48	65	56	49	44	45	41	37	35	32	30	26	24	22	18								
5	66	55	47	41	59	50	43	38	41	36	32	32	28	26	24	21	20	16								
6	61	49	41	36	55	45	38	33	36	31	28	29	25	22	22	19	17	14								
7	56	44	37	31	51	40	34	29	33	28	24	26	22	20	20	17	15	13								
8	52	40	33	27	47	37	30	25	30	25	21	24	20	18	18	16	14	11								
9	48	36	29	24	44	33	27	23	27	23	19	22	18	16	17	14	12	10								
10	45	33	26	22	41	31	24	20	25	20	17	20	17	14	15	13	11	9								

**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



TEST NUMBER: P331884-830

CATALOG NUMBER: S123DIP-S340D805U830-4F0-1E-UDD-A1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.6	1.1
10°-20°	143.2	3.6
20°-30°	240.3	6.1
30°-40°	272.0	6.9
40°-50°	244.0	6.1
50°-60°	196.9	5.0
60°-70°	137.2	3.5
70°-80°	72.1	1.8
80°-90°	20.4	0.5
90°-100°	61.1	1.5
100°-110°	182.9	4.6
110°-120°	311.1	7.8
120°-130°	409.2	10.3
130°-140°	460.0	11.6
140°-150°	452.1	11.4
150°-160°	380.6	9.6
160°-170°	253.4	6.4
170°-180°	88.7	2.2
0°-30°	428.1	10.8
0°-40°	700.1	17.6
0°-60°	1140.9	28.7
0°-90°	1370.7	34.5
90°-120°	555.1	14.0
90°-150°	1876.4	47.3
90°-180°	2599.0	65.5
0°-180°	3969.8	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°	58	44	58	44	58	59
105°	175	166	175	166	175	186
115°	314	313	314	313	314	311
125°	453	458	453	458	453	405
135°	594	595	594	595	594	457
145°	721	721	721	721	721	450
155°	825	826	825	826	825	380
165°	897	900	897	900	897	253
175°	932	936	932	936	932	89
180°	938	938	938	938	938	



TEST NUMBER: P331884-830

CATALOG NUMBER: S123DIP-S340D805U830-4F0-1E-UDD-A1

**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°	29.8	30.0	30.2	30.3	30.5	30.3	29.9	29.3	28.8	28.3	27.1
95°	57.5	57.5	57.5	57.5	57.5	57.1	56.5	55.8	55.2	54.6	53.3
97.5°	88.4	88.5	88.6	88.6	88.7	88.3	87.6	86.8	86.1	85.3	84.4
100°	112.0	111.7	111.3	111.0	110.7	110.3	109.8	109.3	108.9	108.3	107.5
102.5°	136.2	136.3	136.3	136.4	136.5	136.2	135.7	135.3	134.8	134.3	133.2
105°	175.4	175.0	174.7	174.4	174.1	173.9	173.9	173.9	173.9	173.9	172.5
107.5°	216.2	216.4	216.6	216.8	217.0	216.9	216.3	215.7	215.3	214.7	214.1
110°	243.9	244.2	244.6	244.9	245.2	245.1	244.4	243.7	243.1	242.4	242.1



TEST NUMBER: P331884-830

CATALOG NUMBER: S123DIP-S340D805U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	273.4	273.4	273.5	273.6	273.6	273.3	272.5	271.7	271.0	270.1	270.1
115°	314.0	314.1	314.2	314.4	314.6	314.6	314.4	314.2	314.1	314.0	314.2
117.5°	355.1	355.5	356.0	356.5	356.8	357.1	357.1	357.2	357.2	357.2	357.7
120°	383.9	384.3	384.6	384.9	385.2	385.5	385.7	385.8	386.0	386.2	387.0
122.5°	411.6	412.1	412.6	413.0	413.5	414.0	414.3	414.8	415.2	415.7	416.0
125°	453.2	453.8	454.5	455.2	455.8	456.5	457.1	457.8	458.5	459.1	459.4
127.5°	494.6	495.4	496.2	496.9	497.7	498.5	499.4	500.3	501.2	502.1	502.5
130°	521.7	522.9	524.1	525.2	526.3	527.3	527.9	528.6	529.1	529.8	530.4
132.5°	550.1	550.9	551.8	552.7	553.6	554.4	555.2	556.0	556.8	557.5	557.9
135°	594.0	594.3	594.7	594.9	595.3	595.8	596.4	597.1	597.8	598.4	598.5
137.5°	632.7	633.4	634.0	634.6	635.2	635.8	636.6	637.3	637.9	638.6	638.2
140°	658.1	659.2	660.3	661.5	662.7	663.3	663.5	663.6	663.8	663.9	663.8
142.5°	684.0	684.9	685.8	686.6	687.6	688.1	688.2	688.4	688.5	688.7	688.4
145°	721.4	722.1	722.7	723.4	724.1	724.4	724.6	724.8	725.0	725.1	724.6
147.5°	754.8	755.7	756.7	757.7	758.7	759.2	759.2	759.2	759.2	759.2	758.7
150°	776.0	776.9	778.0	778.9	780.0	780.4	780.4	780.4	780.4	780.4	780.0
152.5°	796.6	797.5	798.3	799.2	800.0	800.3	800.0	799.7	799.6	799.3	799.1
155°	824.6	825.8	826.9	828.0	829.2	829.4	828.8	828.1	827.5	826.8	826.7
157.5°	850.1	851.0	852.0	852.9	853.8	853.8	853.2	852.5	851.9	851.1	851.0
160°	866.6	867.2	867.9	868.6	869.2	869.1	868.4	867.5	866.7	865.9	865.9
162.5°	879.0	880.1	881.1	882.1	883.2	883.4	882.5	881.7	880.8	880.1	879.9
165°	896.8	898.0	899.1	900.3	901.4	901.5	900.5	899.6	898.5	897.6	897.6
167.5°	912.0	913.0	914.1	915.0	916.1	916.1	915.0	914.1	913.0	912.0	911.9
170°	919.6	920.9	922.0	923.1	924.3	924.3	923.1	922.0	920.9	919.6	919.6
172.5°	925.6	926.7	927.8	929.0	930.2	930.2	929.3	928.2	927.2	926.1	926.1
175°	932.2	933.3	934.5	935.7	936.8	936.9	935.9	934.9	934.0	932.9	932.9
177.5°	935.8	936.7	937.5	938.5	939.4	939.4	938.7	937.9	937.1	936.3	936.3
180°	938.1	938.1	938.1	938.1	938.1	938.1	938.1	938.1	938.1	938.1	938.1



TEST NUMBER: P331884-830

CATALOG NUMBER: S123DIP-S340D805U830-4F0-1E-UDD-A1

**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°	25.9	24.7	23.5	22.2	21.2	20.1	18.9	17.8	18.9	20.1	21.2
95°	51.9	50.6	49.3	48.1	46.9	45.8	44.6	43.5	44.6	45.8	46.9
97.5°	83.4	82.5	81.5	80.7	79.7	78.9	78.0	77.2	78.0	78.9	79.7
100°	106.7	105.8	105.1	104.2	103.2	102.2	101.2	100.2	101.2	102.2	103.2
102.5°	132.1	131.0	130.0	129.1	128.6	127.9	127.3	126.8	127.3	127.9	128.6
105°	171.0	169.5	168.1	167.1	166.8	166.5	166.2	165.8	166.2	166.5	166.8
107.5°	213.6	213.0	212.4	212.0	211.8	211.6	211.4	211.2	211.4	211.6	211.8
110°	241.8	241.5	241.1	240.8	240.4	240.2	239.8	239.5	239.8	240.2	240.4





TEST NUMBER: P331884-830

CATALOG NUMBER: S123DIP-S340D805U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	270.0	269.9	269.8	269.8	269.6	269.4	269.2	269.0	269.2	269.4	269.6
115°	314.6	314.9	315.3	315.2	314.6	314.1	313.7	313.2	313.7	314.1	314.6
117.5°	358.1	358.5	358.9	359.0	358.6	358.4	358.1	357.7	358.1	358.4	358.6
120°	387.8	388.6	389.5	389.4	388.3	387.4	386.3	385.4	386.3	387.4	388.3
122.5°	416.5	416.9	417.4	417.2	416.4	415.8	415.0	414.3	415.0	415.8	416.4
125°	459.8	460.1	460.4	460.3	459.9	459.3	458.8	458.4	458.8	459.3	459.9
127.5°	502.8	503.2	503.6	503.2	502.2	501.1	500.1	499.1	500.1	501.1	502.2
130°	530.8	531.3	531.8	531.4	530.1	528.8	527.4	526.1	527.4	528.8	530.1
132.5°	558.3	558.6	559.0	558.6	557.2	555.9	554.6	553.3	554.6	555.9	557.2
135°	598.7	598.9	599.1	598.6	597.7	596.6	595.7	594.7	595.7	596.6	597.7
137.5°	637.7	637.3	636.9	636.3	635.5	634.6	633.9	633.0	633.9	634.6	635.5
140°	663.6	663.5	663.3	662.8	662.0	661.2	660.3	659.5	660.3	661.2	662.0
142.5°	688.2	687.9	687.6	687.0	686.2	685.3	684.6	683.7	684.6	685.3	686.2
145°	724.2	723.7	723.1	722.7	722.5	722.1	721.8	721.4	721.8	722.1	722.5
147.5°	758.3	757.8	757.3	756.9	756.2	755.6	755.1	754.5	755.1	755.6	756.2
150°	779.8	779.4	779.1	778.7	778.4	778.1	777.8	777.4	777.8	778.1	778.4
152.5°	798.9	798.7	798.5	798.1	797.7	797.2	796.7	796.4	796.7	797.2	797.7
155°	826.5	826.3	826.1	826.0	826.0	826.0	826.0	826.0	826.0	826.0	826.0
157.5°	850.9	850.7	850.6	850.6	850.8	851.0	851.2	851.4	851.2	851.0	850.8
160°	865.9	865.9	865.9	866.0	866.4	866.7	867.0	867.3	867.0	866.7	866.4
162.5°	879.8	879.7	879.5	879.7	880.1	880.6	881.1	881.5	881.1	880.6	880.1
165°	897.6	897.6	897.6	897.8	898.3	898.8	899.3	899.8	899.3	898.8	898.3
167.5°	911.7	911.6	911.5	911.7	912.4	913.0	913.7	914.4	913.7	913.0	912.4
170°	919.6	919.6	919.6	920.0	920.7	921.3	922.0	922.7	922.0	921.3	920.7
172.5°	926.1	926.1	926.1	926.5	927.2	927.8	928.5	929.1	928.5	927.8	927.2
175°	932.9	932.9	932.9	933.3	934.0	934.6	935.2	935.9	935.2	934.6	934.0
177.5°	936.3	936.3	936.3	936.6	937.1	937.6	938.2	938.7	938.2	937.6	937.1
180°	938.1	938.1	938.1	938.1	938.1	938.1	938.1	938.1	938.1	938.1	938.1



TEST NUMBER: P331884-830

CATALOG NUMBER: S123DIP-S340D805U830-4F0-1E-UDD-A1

**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°	22.2	23.5	24.7	25.9	27.1	28.3	28.8	29.3	29.9	30.3	30.5
95°	48.1	49.3	50.6	51.9	53.3	54.6	55.2	55.8	56.5	57.1	57.5
97.5°	80.7	81.5	82.5	83.4	84.4	85.3	86.1	86.8	87.6	88.3	88.7
100°	104.2	105.1	105.8	106.7	107.5	108.3	108.9	109.3	109.8	110.3	110.7
102.5°	129.1	130.0	131.0	132.1	133.2	134.3	134.8	135.3	135.7	136.2	136.5
105°	167.1	168.1	169.5	171.0	172.5	173.9	173.9	173.9	173.9	173.9	174.1
107.5°	212.0	212.4	213.0	213.6	214.1	214.7	215.3	215.7	216.3	216.9	217.0
110°	240.8	241.1	241.5	241.8	242.1	242.4	243.1	243.7	244.4	245.1	245.2



TEST NUMBER: P331884-830

CATALOG NUMBER: S123DIP-S340D805U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	269.8	269.8	269.9	270.0	270.1	270.1	271.0	271.7	272.5	273.3	273.6
115°	315.2	315.3	314.9	314.6	314.2	314.0	314.1	314.2	314.4	314.6	314.6
117.5°	359.0	358.9	358.5	358.1	357.7	357.2	357.2	357.2	357.1	357.1	356.8
120°	389.4	389.5	388.6	387.8	387.0	386.2	386.0	385.8	385.7	385.5	385.2
122.5°	417.2	417.4	416.9	416.5	416.0	415.7	415.2	414.8	414.3	414.0	413.5
125°	460.3	460.4	460.1	459.8	459.4	459.1	458.5	457.8	457.1	456.5	455.8
127.5°	503.2	503.6	503.2	502.8	502.5	502.1	501.2	500.3	499.4	498.5	497.7
130°	531.4	531.8	531.3	530.8	530.4	529.8	529.1	528.6	527.9	527.3	526.3
132.5°	558.6	559.0	558.6	558.3	557.9	557.5	556.8	556.0	555.2	554.4	553.6
135°	598.6	599.1	598.9	598.7	598.5	598.4	597.8	597.1	596.4	595.8	595.3
137.5°	636.3	636.9	637.3	637.7	638.2	638.6	637.9	637.3	636.6	635.8	635.2
140°	662.8	663.3	663.5	663.6	663.8	663.9	663.8	663.6	663.5	663.3	662.7
142.5°	687.0	687.6	687.9	688.2	688.4	688.7	688.5	688.4	688.2	688.1	687.6
145°	722.7	723.1	723.7	724.2	724.6	725.1	725.0	724.8	724.6	724.4	724.1
147.5°	756.9	757.3	757.8	758.3	758.7	759.2	759.2	759.2	759.2	759.2	758.7
150°	778.7	779.1	779.4	779.8	780.0	780.4	780.4	780.4	780.4	780.4	780.0
152.5°	798.1	798.5	798.7	798.9	799.1	799.3	799.6	799.7	800.0	800.3	800.0
155°	826.0	826.1	826.3	826.5	826.7	826.8	827.5	828.1	828.8	829.4	829.2
157.5°	850.6	850.6	850.7	850.9	851.0	851.1	851.9	852.5	853.2	853.8	853.8
160°	866.0	865.9	865.9	865.9	865.9	865.9	866.7	867.5	868.4	869.1	869.2
162.5°	879.7	879.5	879.7	879.8	879.9	880.1	880.8	881.7	882.5	883.4	883.2
165°	897.8	897.6	897.6	897.6	897.6	897.6	898.5	899.6	900.5	901.5	901.4
167.5°	911.7	911.5	911.6	911.7	911.9	912.0	913.0	914.1	915.0	916.1	916.1
170°	920.0	919.6	919.6	919.6	919.6	919.6	920.9	922.0	923.1	924.3	924.3
172.5°	926.5	926.1	926.1	926.1	926.1	926.1	927.2	928.2	929.3	930.2	930.2
175°	933.3	932.9	932.9	932.9	932.9	932.9	934.0	934.9	935.9	936.9	936.8
177.5°	936.6	936.3	936.3	936.3	936.3	936.3	937.1	937.9	938.7	939.4	939.4
180°	938.1	938.1	938.1	938.1	938.1	938.1	938.1	938.1	938.1	938.1	938.1



TEST NUMBER: P331884-830

CATALOG NUMBER: S123DIP-S340D805U830-4F0-1E-UDD-A1

**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°	30.3	30.2	30.0	29.8	30.0	30.2	30.3	30.5	30.3	29.9	29.3
95°	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.1	56.5	55.8
97.5°	88.6	88.6	88.5	88.4	88.5	88.6	88.6	88.7	88.3	87.6	86.8
100°	111.0	111.3	111.7	112.0	111.7	111.3	111.0	110.7	110.3	109.8	109.3
102.5°	136.4	136.3	136.3	136.2	136.3	136.3	136.4	136.5	136.2	135.7	135.3
105°	174.4	174.7	175.0	175.4	175.0	174.7	174.4	174.1	173.9	173.9	173.9
107.5°	216.8	216.6	216.4	216.2	216.4	216.6	216.8	217.0	216.9	216.3	215.7
110°	244.9	244.6	244.2	243.9	244.2	244.6	244.9	245.2	245.1	244.4	243.7



TEST NUMBER: P331884-830

CATALOG NUMBER: S123DIP-S340D805U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	273.6	273.5	273.4	273.4	273.4	273.5	273.6	273.6	273.3	272.5	271.7
115°	314.4	314.2	314.1	314.0	314.1	314.2	314.4	314.6	314.6	314.4	314.2
117.5°	356.5	356.0	355.5	355.1	355.5	356.0	356.5	356.8	357.1	357.1	357.2
120°	384.9	384.6	384.3	383.9	384.3	384.6	384.9	385.2	385.5	385.7	385.8
122.5°	413.0	412.6	412.1	411.6	412.1	412.6	413.0	413.5	414.0	414.3	414.8
125°	455.2	454.5	453.8	453.2	453.8	454.5	455.2	455.8	456.5	457.1	457.8
127.5°	496.9	496.2	495.4	494.6	495.4	496.2	496.9	497.7	498.5	499.4	500.3
130°	525.2	524.1	522.9	521.7	522.9	524.1	525.2	526.3	527.3	527.9	528.6
132.5°	552.7	551.8	550.9	550.1	550.9	551.8	552.7	553.6	554.4	555.2	556.0
135°	594.9	594.7	594.3	594.0	594.3	594.7	594.9	595.3	595.8	596.4	597.1
137.5°	634.6	634.0	633.4	632.7	633.4	634.0	634.6	635.2	635.8	636.6	637.3
140°	661.5	660.3	659.2	658.1	659.2	660.3	661.5	662.7	663.3	663.5	663.6
142.5°	686.6	685.8	684.9	684.0	684.9	685.8	686.6	687.6	688.1	688.2	688.4
145°	723.4	722.7	722.1	721.4	722.1	722.7	723.4	724.1	724.4	724.6	724.8
147.5°	757.7	756.7	755.7	754.8	755.7	756.7	757.7	758.7	759.2	759.2	759.2
150°	778.9	778.0	776.9	776.0	776.9	778.0	778.9	780.0	780.4	780.4	780.4
152.5°	799.2	798.3	797.5	796.6	797.5	798.3	799.2	800.0	800.3	800.0	799.7
155°	828.0	826.9	825.8	824.6	825.8	826.9	828.0	829.2	829.4	828.8	828.1
157.5°	852.9	852.0	851.0	850.1	851.0	852.0	852.9	853.8	853.8	853.2	852.5
160°	868.6	867.9	867.2	866.6	867.2	867.9	868.6	869.2	869.1	868.4	867.5
162.5°	882.1	881.1	880.1	879.0	880.1	881.1	882.1	883.2	883.4	882.5	881.7
165°	900.3	899.1	898.0	896.8	898.0	899.1	900.3	901.4	901.5	900.5	899.6
167.5°	915.0	914.1	913.0	912.0	913.0	914.1	915.0	916.1	916.1	915.0	914.1
170°	923.1	922.0	920.9	919.6	920.9	922.0	923.1	924.3	924.3	923.1	922.0
172.5°	929.0	927.8	926.7	925.6	926.7	927.8	929.0	930.2	930.2	929.3	928.2
175°	935.7	934.5	933.3	932.2	933.3	934.5	935.7	936.8	936.9	935.9	934.9
177.5°	938.5	937.5	936.7	935.8	936.7	937.5	938.5	939.4	939.4	938.7	937.9
180°	938.1	938.1	938.1	938.1	938.1	938.1	938.1	938.1	938.1	938.1	938.1



TEST NUMBER: P331884-830

CATALOG NUMBER: S123DIP-S340D805U830-4F0-1E-UDD-A1

**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°	28.8	28.3	27.1	25.9	24.7	23.5	22.2	21.2	20.1	18.9	17.8
95°	55.2	54.6	53.3	51.9	50.6	49.3	48.1	46.9	45.8	44.6	43.5
97.5°	86.1	85.3	84.4	83.4	82.5	81.5	80.7	79.7	78.9	78.0	77.2
100°	108.9	108.3	107.5	106.7	105.8	105.1	104.2	103.2	102.2	101.2	100.2
102.5°	134.8	134.3	133.2	132.1	131.0	130.0	129.1	128.6	127.9	127.3	126.8
105°	173.9	173.9	172.5	171.0	169.5	168.1	167.1	166.8	166.5	166.2	165.8
107.5°	215.3	214.7	214.1	213.6	213.0	212.4	212.0	211.8	211.6	211.4	211.2
110°	243.1	242.4	242.1	241.8	241.5	241.1	240.8	240.4	240.2	239.8	239.5



TEST NUMBER: P331884-830

CATALOG NUMBER: S123DIP-S340D805U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	271.0	270.1	270.1	270.0	269.9	269.8	269.8	269.6	269.4	269.2	269.0
115°	314.1	314.0	314.2	314.6	314.9	315.3	315.2	314.6	314.1	313.7	313.2
117.5°	357.2	357.2	357.7	358.1	358.5	358.9	359.0	358.6	358.4	358.1	357.7
120°	386.0	386.2	387.0	387.8	388.6	389.5	389.4	388.3	387.4	386.3	385.4
122.5°	415.2	415.7	416.0	416.5	416.9	417.4	417.2	416.4	415.8	415.0	414.3
125°	458.5	459.1	459.4	459.8	460.1	460.4	460.3	459.9	459.3	458.8	458.4
127.5°	501.2	502.1	502.5	502.8	503.2	503.6	503.2	502.2	501.1	500.1	499.1
130°	529.1	529.8	530.4	530.8	531.3	531.8	531.4	530.1	528.8	527.4	526.1
132.5°	556.8	557.5	557.9	558.3	558.6	559.0	558.6	557.2	555.9	554.6	553.3
135°	597.8	598.4	598.5	598.7	598.9	599.1	598.6	597.7	596.6	595.7	594.7
137.5°	637.9	638.6	638.2	637.7	637.3	636.9	636.3	635.5	634.6	633.9	633.0
140°	663.8	663.9	663.8	663.6	663.5	663.3	662.8	662.0	661.2	660.3	659.5
142.5°	688.5	688.7	688.4	688.2	687.9	687.6	687.0	686.2	685.3	684.6	683.7
145°	725.0	725.1	724.6	724.2	723.7	723.1	722.7	722.5	722.1	721.8	721.4
147.5°	759.2	759.2	758.7	758.3	757.8	757.3	756.9	756.2	755.6	755.1	754.5
150°	780.4	780.4	780.0	779.8	779.4	779.1	778.7	778.4	778.1	777.8	777.4
152.5°	799.6	799.3	799.1	798.9	798.7	798.5	798.1	797.7	797.2	796.7	796.4
155°	827.5	826.8	826.7	826.5	826.3	826.1	826.0	826.0	826.0	826.0	826.0
157.5°	851.9	851.1	851.0	850.9	850.7	850.6	850.6	850.8	851.0	851.2	851.4
160°	866.7	865.9	865.9	865.9	865.9	865.9	866.0	866.4	866.7	867.0	867.3
162.5°	880.8	880.1	879.9	879.8	879.7	879.5	879.7	880.1	880.6	881.1	881.5
165°	898.5	897.6	897.6	897.6	897.6	897.6	897.8	898.3	898.8	899.3	899.8
167.5°	913.0	912.0	911.9	911.7	911.6	911.5	911.7	912.4	913.0	913.7	914.4
170°	920.9	919.6	919.6	919.6	919.6	919.6	920.0	920.7	921.3	922.0	922.7
172.5°	927.2	926.1	926.1	926.1	926.1	926.1	926.5	927.2	927.8	928.5	929.1
175°	934.0	932.9	932.9	932.9	932.9	932.9	933.3	934.0	934.6	935.2	935.9
177.5°	937.1	936.3	936.3	936.3	936.3	936.3	936.6	937.1	937.6	938.2	938.7
180°	938.1	938.1	938.1	938.1	938.1	938.1	938.1	938.1	938.1	938.1	938.1



TEST NUMBER: P331884-830

CATALOG NUMBER: S123DIP-S340D805U830-4F0-1E-UDD-A1

**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°	18.9	20.1	21.2	22.2	23.5	24.7	25.9	27.1	28.3	28.8	29.3
95°	44.6	45.8	46.9	48.1	49.3	50.6	51.9	53.3	54.6	55.2	55.8
97.5°	78.0	78.9	79.7	80.7	81.5	82.5	83.4	84.4	85.3	86.1	86.8
100°	101.2	102.2	103.2	104.2	105.1	105.8	106.7	107.5	108.3	108.9	109.3
102.5°	127.3	127.9	128.6	129.1	130.0	131.0	132.1	133.2	134.3	134.8	135.3
105°	166.2	166.5	166.8	167.1	168.1	169.5	171.0	172.5	173.9	173.9	173.9
107.5°	211.4	211.6	211.8	212.0	212.4	213.0	213.6	214.1	214.7	215.3	215.7
110°	239.8	240.2	240.4	240.8	241.1	241.5	241.8	242.1	242.4	243.1	243.7





TEST NUMBER: P331884-830

CATALOG NUMBER: S123DIP-S340D805U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	269.2	269.4	269.6	269.8	269.8	269.9	270.0	270.1	270.1	271.0	271.7
115°	313.7	314.1	314.6	315.2	315.3	314.9	314.6	314.2	314.0	314.1	314.2
117.5°	358.1	358.4	358.6	359.0	358.9	358.5	358.1	357.7	357.2	357.2	357.2
120°	386.3	387.4	388.3	389.4	389.5	388.6	387.8	387.0	386.2	386.0	385.8
122.5°	415.0	415.8	416.4	417.2	417.4	416.9	416.5	416.0	415.7	415.2	414.8
125°	458.8	459.3	459.9	460.3	460.4	460.1	459.8	459.4	459.1	458.5	457.8
127.5°	500.1	501.1	502.2	503.2	503.6	503.2	502.8	502.5	502.1	501.2	500.3
130°	527.4	528.8	530.1	531.4	531.8	531.3	530.8	530.4	529.8	529.1	528.6
132.5°	554.6	555.9	557.2	558.6	559.0	558.6	558.3	557.9	557.5	556.8	556.0
135°	595.7	596.6	597.7	598.6	599.1	598.9	598.7	598.5	598.4	597.8	597.1
137.5°	633.9	634.6	635.5	636.3	636.9	637.3	637.7	638.2	638.6	637.9	637.3
140°	660.3	661.2	662.0	662.8	663.3	663.5	663.6	663.8	663.9	663.8	663.6
142.5°	684.6	685.3	686.2	687.0	687.6	687.9	688.2	688.4	688.7	688.5	688.4
145°	721.8	722.1	722.5	722.7	723.1	723.7	724.2	724.6	725.1	725.0	724.8
147.5°	755.1	755.6	756.2	756.9	757.3	757.8	758.3	758.7	759.2	759.2	759.2
150°	777.8	778.1	778.4	778.7	779.1	779.4	779.8	780.0	780.4	780.4	780.4
152.5°	796.7	797.2	797.7	798.1	798.5	798.7	798.9	799.1	799.3	799.6	799.7
155°	826.0	826.0	826.0	826.0	826.1	826.3	826.5	826.7	826.8	827.5	828.1
157.5°	851.2	851.0	850.8	850.6	850.6	850.7	850.9	851.0	851.1	851.9	852.5
160°	867.0	866.7	866.4	866.0	865.9	865.9	865.9	865.9	865.9	866.7	867.5
162.5°	881.1	880.6	880.1	879.7	879.5	879.7	879.8	879.9	880.1	880.8	881.7
165°	899.3	898.8	898.3	897.8	897.6	897.6	897.6	897.6	897.6	898.5	899.6
167.5°	913.7	913.0	912.4	911.7	911.5	911.6	911.7	911.9	912.0	913.0	914.1
170°	922.0	921.3	920.7	920.0	919.6	919.6	919.6	919.6	919.6	920.9	922.0
172.5°	928.5	927.8	927.2	926.5	926.1	926.1	926.1	926.1	926.1	927.2	928.2
175°	935.2	934.6	934.0	933.3	932.9	932.9	932.9	932.9	932.9	934.0	934.9
177.5°	938.2	937.6	937.1	936.6	936.3	936.3	936.3	936.3	936.3	937.1	937.9
180°	938.1	938.1	938.1	938.1	938.1	938.1	938.1	938.1	938.1	938.1	938.1



TEST NUMBER: P331884-830

CATALOG NUMBER: S123DIP-S340D805U830-4F0-1E-UDD-A1

**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°	29.9	30.3	30.5	30.3	30.2	30.0	29.8
95°	56.5	57.1	57.5	57.5	57.5	57.5	57.5
97.5°	87.6	88.3	88.7	88.6	88.6	88.5	88.4
100°	109.8	110.3	110.7	111.0	111.3	111.7	112.0
102.5°	135.7	136.2	136.5	136.4	136.3	136.3	136.2
105°	173.9	173.9	174.1	174.4	174.7	175.0	175.4
107.5°	216.3	216.9	217.0	216.8	216.6	216.4	216.2
110°	244.4	245.1	245.2	244.9	244.6	244.2	243.9



TEST NUMBER: P331884-830

CATALOG NUMBER: S123DIP-S340D805U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	272.5	273.3	273.6	273.6	273.5	273.4	273.4
115°	314.4	314.6	314.6	314.4	314.2	314.1	314.0
117.5°	357.1	357.1	356.8	356.5	356.0	355.5	355.1
120°	385.7	385.5	385.2	384.9	384.6	384.3	383.9
122.5°	414.3	414.0	413.5	413.0	412.6	412.1	411.6
125°	457.1	456.5	455.8	455.2	454.5	453.8	453.2
127.5°	499.4	498.5	497.7	496.9	496.2	495.4	494.6
130°	527.9	527.3	526.3	525.2	524.1	522.9	521.7
132.5°	555.2	554.4	553.6	552.7	551.8	550.9	550.1
135°	596.4	595.8	595.3	594.9	594.7	594.3	594.0
137.5°	636.6	635.8	635.2	634.6	634.0	633.4	632.7
140°	663.5	663.3	662.7	661.5	660.3	659.2	658.1
142.5°	688.2	688.1	687.6	686.6	685.8	684.9	684.0
145°	724.6	724.4	724.1	723.4	722.7	722.1	721.4
147.5°	759.2	759.2	758.7	757.7	756.7	755.7	754.8
150°	780.4	780.4	780.0	778.9	778.0	776.9	776.0
152.5°	800.0	800.3	800.0	799.2	798.3	797.5	796.6
155°	828.8	829.4	829.2	828.0	826.9	825.8	824.6
157.5°	853.2	853.8	853.8	852.9	852.0	851.0	850.1
160°	868.4	869.1	869.2	868.6	867.9	867.2	866.6
162.5°	882.5	883.4	883.2	882.1	881.1	880.1	879.0
165°	900.5	901.5	901.4	900.3	899.1	898.0	896.8
167.5°	915.0	916.1	916.1	915.0	914.1	913.0	912.0
170°	923.1	924.3	924.3	923.1	922.0	920.9	919.6
172.5°	929.3	930.2	930.2	929.0	927.8	926.7	925.6
175°	935.9	936.9	936.8	935.7	934.5	933.3	932.2
177.5°	938.7	939.4	939.4	938.5	937.5	936.7	935.8
180°	938.1	938.1	938.1	938.1	938.1	938.1	938.1

(END OF REPORT)