

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: P331296-930

Luminaire Tested: **S122DIP-S485D530U930-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331296-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DIP-S485D530U930-4F0-1E-UDD-A4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 530 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3432.5 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

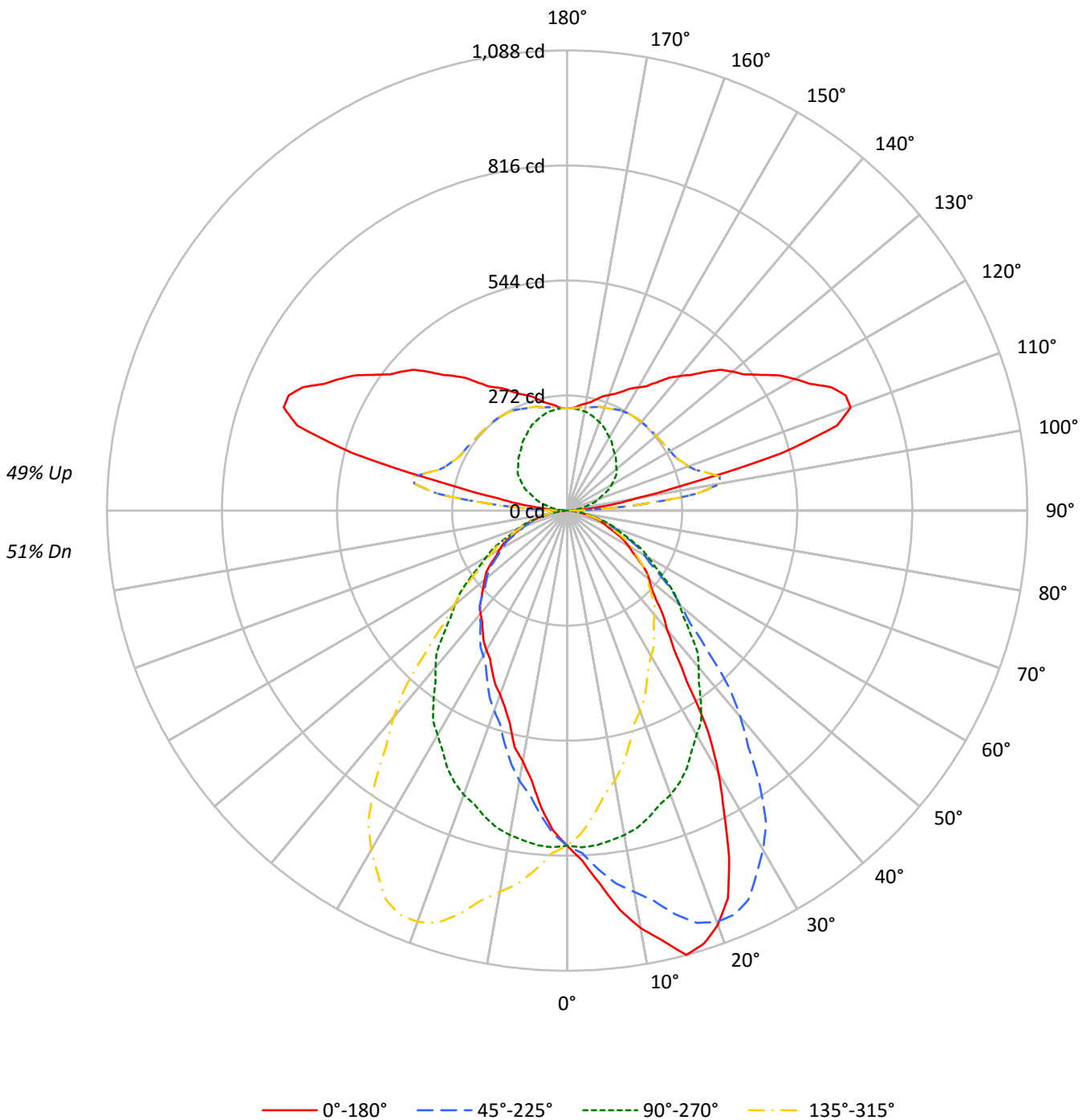
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	98	94	91	87	91	87	84	81	74	72	70	62	61	59	51	50	49	44
2	90	83	77	72	83	77	72	67	66	62	59	55	53	50	46	44	42	38
3	82	73	66	61	76	68	62	57	58	54	50	49	46	43	41	38	36	32
4	76	65	58	52	70	61	54	49	52	47	43	44	40	37	37	34	32	28
5	70	58	50	45	64	54	47	42	47	42	37	40	36	33	33	30	28	25
6	64	53	45	39	59	49	42	37	42	37	33	36	32	29	31	27	25	22
7	60	48	40	34	55	45	38	33	39	33	29	33	29	26	28	25	22	20
8	55	43	36	31	51	41	34	29	35	30	26	30	26	23	26	23	20	18
9	52	40	32	27	48	37	31	26	33	27	23	28	24	21	24	21	18	16
10	48	37	29	25	45	34	28	24	30	25	21	26	22	19	22	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12791	12791	12791	12791
5°	14340	12875	11408	12875
10°	16433	12770	9875	12770
15°	18180	12535	8724	12535
20°	17904	12283	7952	12283
25°	16142	11948	7464	11948
30°	13340	11415	7107	11415
35°	9723	10857	6853	10857
40°	7765	10197	6713	10197
45°	6786	9435	6521	9435
50°	6380	8696	6393	8696
55°	5880	7947	6221	7947
60°	5389	7149	5958	7149
65°	4909	6434	5700	6434
70°	4456	5736	5320	5736
75°	3949	4959	4710	4959
80°	3394	4110	3794	4110
85°	3057	3057	2242	3057



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.5	2.2
10°-20°	219.3	6.4
20°-30°	318.3	9.3
30°-40°	335.9	9.8
40°-50°	297.4	8.7
50°-60°	237.4	6.9
60°-70°	161.3	4.7
70°-80°	82.7	2.4
80°-90°	22.1	0.6
90°-100°	96.7	2.8
100°-110°	328.1	9.6
110°-120°	348.5	10.2
120°-130°	286.9	8.4
130°-140°	230.4	6.7
140°-150°	174.1	5.1
150°-160°	122.4	3.6
160°-170°	72.0	2.1
170°-180°	23.4	0.7
0°-30°	613.1	17.9
0°-40°	949.1	27.6
0°-60°	1483.9	43.2
0°-90°	1750.1	51.0
90°-120°	773.2	22.5
90°-150°	1464.6	42.7
90°-180°	1682.0	49.0
0°-180°	3432.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	792	792	792	792	792	
5°	885	794	704	794	885	88
15°	1088	750	522	750	1088	300
25°	906	671	419	671	906	410
35°	493	551	348	551	493	321
45°	297	413	286	413	297	234
55°	209	282	221	282	209	187
65°	128	168	149	168	128	128
75°	63	80	76	80	63	68
85°	16	16	12	16	16	18
90°	15	0	15	0	15	9
95°	53	16	53	16	53	69
105°	524	57	524	57	524	507
115°	690	100	690	100	690	675
125°	559	140	559	140	559	505
135°	464	164	464	164	464	360
145°	370	187	370	187	370	235
155°	311	212	311	212	311	145
165°	273	232	273	232	273	78
175°	246	241	246	241	246	24
180°	242	242	242	242	242	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2
2.5°	828.8	829.1	829.5	825.7	825.2	825.2	821.7	818.8	815.4	810.7	811.2
5°	884.8	888.2	889.4	885.7	880.3	879.6	874.5	865.9	858.0	851.7	847.1
7.5°	951.7	953.0	950.1	945.3	941.2	933.8	924.2	914.8	901.6	889.4	880.4
10°	1002.3	1004.2	999.0	992.0	986.2	977.7	963.7	949.3	932.1	915.3	901.9
12.5°	1040.8	1045.4	1038.7	1037.8	1027.8	1016.2	999.5	992.2	967.8	944.5	930.1
15°	1087.6	1087.3	1087.9	1082.1	1074.8	1073.0	1055.3	1036.2	1001.8	988.1	964.3
17.5°	1074.1	1078.7	1080.8	1080.8	1080.6	1079.5	1073.7	1061.7	1044.4	1022.2	994.8
20°	1042.0	1048.0	1049.0	1056.0	1059.9	1065.1	1067.2	1063.9	1053.2	1034.6	1010.9
22.5°	992.2	993.9	996.8	1007.7	1016.3	1029.2	1036.0	1047.3	1043.2	1034.1	1014.3
25°	906.1	903.1	913.7	919.2	939.0	959.7	974.6	991.1	1005.7	1014.6	1008.8
27.5°	802.7	798.2	814.2	828.7	844.7	867.2	890.4	917.9	940.7	969.3	979.1
30°	715.5	718.3	733.5	749.0	773.4	805.0	831.2	861.4	894.0	925.9	948.1
32.5°	621.5	632.0	641.6	665.4	686.9	722.2	760.6	798.3	838.9	875.2	909.6
35°	493.3	505.4	518.9	536.2	566.3	601.4	638.8	689.7	745.1	794.7	835.5
37.5°	415.2	413.3	420.9	433.5	457.9	486.2	529.2	579.5	644.7	703.0	760.6
40°	368.4	367.2	372.7	384.3	402.8	423.5	461.3	505.4	566.1	637.2	705.8
42.5°	336.2	337.0	340.1	348.2	360.9	378.0	406.3	443.8	499.3	566.4	640.0
45°	297.2	299.3	302.6	306.6	313.9	327.9	343.7	370.6	414.4	470.4	542.9
47.5°	269.0	269.1	272.5	276.0	280.3	288.2	301.2	318.0	348.9	394.5	456.8
50°	254.0	251.8	254.2	257.0	261.5	267.0	275.6	291.4	312.1	348.9	401.0
52.5°	235.5	235.5	237.7	238.7	242.8	248.3	256.1	267.0	285.8	314.6	357.4
55°	208.9	210.4	211.7	213.4	217.1	221.0	227.1	234.5	249.1	270.7	302.3
57.5°	183.9	184.4	185.6	189.1	191.4	195.0	200.8	207.5	217.0	233.0	256.8
60°	166.9	166.9	169.3	170.8	173.8	177.5	182.1	188.5	197.0	210.1	229.3
62.5°	151.2	151.0	152.0	154.5	156.8	160.2	164.8	170.2	178.2	189.9	205.6
65°	128.5	127.9	129.7	130.3	132.7	136.1	139.7	145.5	152.0	160.5	174.5
67.5°	106.6	107.3	108.3	109.4	110.8	114.3	116.8	120.8	126.2	133.3	142.8
70°	94.4	94.4	94.4	95.3	97.1	99.0	101.4	104.8	109.9	116.0	124.5
72.5°	80.7	81.7	82.7	82.2	84.5	85.5	88.5	90.3	95.3	99.2	106.7
75°	63.3	63.3	63.3	64.8	65.8	66.7	68.5	70.4	72.8	77.6	81.6
77.5°	47.3	47.1	47.5	47.8	48.8	49.9	50.4	52.1	54.3	56.6	59.9
80°	36.5	37.2	37.4	38.1	38.1	38.6	39.0	41.1	42.6	44.2	46.3
82.5°	28.3	28.4	28.5	28.5	28.8	29.2	29.9	30.7	31.1	32.4	34.1
85°	16.5	16.1	16.1	16.7	16.5	16.5	17.0	17.7	17.7	17.9	18.9
87.5°	9.4	9.4	9.6	9.4	9.4	9.5	9.4	9.3	9.6	9.9	10.1
90°	15.3	15.3	15.3	15.3	15.3	14.8	13.9	14.8	15.3	15.8	15.3
92.5°	25.8	26.5	26.2	27.6	28.0	30.9	34.8	40.5	51.0	60.4	59.6
95°	53.0	52.5	54.0	57.6	63.7	73.9	93.4	121.8	159.5	182.3	161.3
97.5°	104.4	108.3	115.0	126.5	148.7	182.3	232.6	284.3	326.4	311.1	234.3
100°	166.5	174.8	188.3	208.3	246.9	303.1	366.9	424.5	434.2	367.3	252.9
102.5°	292.9	304.3	321.1	355.2	397.1	456.8	503.4	516.4	474.4	369.2	245.9
105°	524.0	530.5	550.5	579.4	608.1	623.5	617.4	564.9	468.2	344.5	232.0
107.5°	669.4	678.0	682.0	683.5	680.0	657.5	609.1	529.9	427.4	318.1	225.1
110°	713.2	713.7	709.6	700.7	680.7	642.5	583.0	499.9	401.7	305.5	223.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	712.5	710.0	702.1	687.3	659.5	615.8	552.2	472.3	383.8	297.3	224.0
115°	689.5	685.3	673.3	651.8	618.9	571.0	510.1	438.5	361.7	288.3	226.0
117.5°	648.5	645.0	632.3	609.7	576.0	531.1	475.8	412.9	347.8	283.9	229.3
120°	622.1	617.4	604.0	582.1	549.6	507.3	458.0	400.3	340.4	281.3	231.5
122.5°	594.6	590.7	578.7	557.2	528.0	489.8	443.1	390.3	334.0	279.8	234.2
125°	559.4	555.6	544.0	526.4	499.4	464.5	423.5	375.7	325.0	277.1	238.1
127.5°	528.5	525.5	515.4	498.9	475.4	443.2	404.6	361.3	316.7	275.6	242.1
130°	510.9	507.3	498.0	482.2	459.3	428.7	392.0	352.0	311.0	274.8	245.0
132.5°	492.8	489.4	480.9	465.0	442.6	413.8	380.1	343.1	306.6	274.4	248.0
135°	463.6	461.7	453.3	438.0	418.0	392.0	361.3	330.6	300.4	273.9	251.5
137.5°	434.9	432.1	424.8	411.6	393.4	370.6	346.3	320.7	296.0	273.8	254.7
140°	415.2	412.4	405.4	393.4	378.5	358.0	336.6	314.3	293.4	273.4	256.2
142.5°	395.5	394.9	388.7	377.7	363.6	346.5	328.1	309.1	290.8	273.4	257.3
145°	370.1	368.7	364.0	356.1	345.0	331.5	317.1	301.7	287.3	272.5	258.5
147.5°	348.8	348.0	344.8	338.5	329.3	319.4	308.2	296.1	283.8	270.8	258.9
150°	336.1	335.7	332.9	327.3	320.3	312.0	302.2	292.0	280.9	269.7	258.5
152.5°	325.4	325.3	323.3	318.4	312.9	305.7	297.4	287.9	278.3	267.8	257.8
155°	311.0	312.0	310.1	306.9	301.7	296.6	289.7	282.3	273.4	264.6	256.7
157.5°	298.9	298.9	298.1	295.3	291.7	287.7	281.8	275.7	268.8	261.2	254.5
160°	291.1	291.1	290.6	288.3	285.0	281.8	276.6	271.5	265.5	259.0	253.4
162.5°	283.6	284.0	283.6	281.9	278.7	276.2	271.8	267.4	262.5	257.1	252.3
165°	273.0	273.4	273.4	271.5	269.7	267.8	264.6	261.3	257.6	253.4	250.1
167.5°	263.1	263.7	263.7	262.7	261.9	260.2	258.0	255.4	252.7	250.1	248.0
170°	257.1	258.0	258.5	257.1	256.7	255.8	253.9	252.5	250.1	248.3	246.9
172.5°	252.3	252.8	253.3	252.7	252.2	251.6	250.1	249.2	247.5	246.1	245.4
175°	246.0	246.9	247.4	246.9	246.9	246.5	246.0	245.5	244.1	243.6	243.2
177.5°	242.1	242.9	243.3	243.3	243.3	243.3	242.9	242.9	242.1	241.7	242.1
180°	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2
2.5°	812.9	811.0	809.8	805.4	801.5	797.6	796.4	796.9	791.5	786.4	784.2
5°	844.7	838.5	832.7	824.5	814.8	804.1	798.7	794.4	783.7	772.2	765.5
7.5°	873.0	864.3	853.1	837.7	823.5	806.7	796.1	786.7	771.0	754.7	744.8
10°	890.3	878.4	864.1	845.2	827.9	807.5	793.2	778.9	760.6	741.1	729.0
12.5°	905.1	889.2	875.1	850.8	830.3	804.8	787.8	767.7	748.4	725.3	713.3
15°	940.5	911.0	884.2	856.8	831.5	795.9	777.1	749.9	724.6	696.0	682.3
17.5°	967.8	934.7	892.5	857.7	828.2	788.7	761.0	728.6	698.6	665.9	647.3
20°	983.5	945.4	900.0	858.7	823.3	778.3	748.1	714.9	679.9	643.0	623.0
22.5°	992.7	952.8	907.8	855.0	813.6	769.7	731.8	695.5	659.9	620.2	599.1
25°	995.6	959.1	911.6	851.9	801.4	751.8	706.0	670.7	627.9	590.7	559.9
27.5°	981.1	955.0	909.3	846.2	787.3	729.3	678.4	638.4	593.0	552.8	521.8
30°	963.4	948.1	903.7	840.3	776.1	713.7	657.7	612.3	567.3	526.4	494.8
32.5°	935.9	932.5	893.5	832.1	764.2	694.0	636.0	590.1	540.2	500.1	469.9
35°	881.7	896.4	871.7	813.6	741.7	665.9	603.2	550.8	499.0	460.6	432.4
37.5°	809.3	845.6	839.2	786.4	711.3	635.4	566.1	511.4	462.0	423.3	395.5
40°	759.4	805.7	812.4	765.7	690.0	611.7	538.3	483.8	435.7	400.4	372.3
42.5°	705.8	759.9	778.3	740.9	666.6	586.9	513.5	457.1	409.4	375.0	350.3
45°	616.0	687.5	720.7	699.4	627.5	545.9	470.4	413.2	370.0	337.7	318.5
47.5°	532.0	610.2	654.8	647.3	584.1	503.3	428.7	373.7	331.7	305.9	288.7
50°	472.5	552.9	606.8	609.3	552.9	472.9	397.9	346.2	307.5	283.5	269.5
52.5°	420.9	497.7	556.4	569.3	518.1	441.2	370.4	318.9	284.9	262.8	250.2
55°	353.5	418.3	483.6	507.3	466.2	393.1	327.6	282.3	250.3	235.1	224.1
57.5°	293.9	348.0	408.1	434.4	409.0	346.5	285.1	245.7	219.8	206.4	198.0
60°	262.4	305.1	358.7	390.0	368.1	312.4	258.8	221.4	200.1	188.2	180.3
62.5°	233.3	271.0	316.3	345.0	333.0	280.5	232.5	199.4	181.1	169.9	164.2
65°	192.4	222.3	257.3	283.8	275.9	235.9	196.7	168.4	153.8	145.0	140.4
67.5°	158.4	180.0	204.3	227.5	221.1	192.8	161.3	139.3	128.3	120.7	118.1
70°	137.1	153.4	175.0	193.6	188.5	165.3	140.4	121.5	112.0	105.7	102.9
72.5°	116.6	130.0	146.6	161.8	158.2	139.0	118.2	104.0	96.7	90.8	88.5
75°	88.0	98.3	108.4	118.5	117.6	102.6	90.4	79.5	73.7	69.1	68.2
77.5°	65.0	70.8	77.6	83.6	81.9	73.4	63.8	57.6	53.3	50.2	49.7
80°	49.7	53.0	57.9	62.1	60.0	56.3	48.8	44.2	41.1	38.1	36.9
82.5°	36.0	39.4	42.2	44.6	43.0	39.5	34.8	31.7	29.9	27.8	27.3
85°	18.9	20.7	21.9	22.5	21.9	19.8	17.7	16.5	14.9	14.0	13.7
87.5°	9.8	9.1	8.7	8.9	8.0	7.8	6.4	5.5	5.5	5.6	5.3
90°	12.6	9.3	7.0	5.5	4.6	3.8	1.9	0.5	1.9	3.8	4.6
92.5°	46.4	31.6	21.1	16.7	13.6	11.5	8.2	5.7	8.2	11.5	13.6
95°	107.4	66.9	45.6	34.4	27.0	22.7	18.1	16.3	18.1	22.7	27.0
97.5°	144.7	88.4	61.5	48.8	40.3	33.9	29.0	26.5	29.0	33.9	40.3
100°	152.5	95.8	71.2	58.1	48.8	41.4	37.2	35.8	37.2	41.4	48.8
102.5°	152.9	102.5	79.7	66.7	57.0	49.6	45.4	44.4	45.4	49.6	57.0
105°	155.3	113.9	92.0	79.0	68.8	61.8	58.6	56.7	58.6	61.8	68.8
107.5°	161.7	125.6	104.4	91.3	81.2	74.8	71.6	70.1	71.6	74.8	81.2
110°	166.9	133.5	113.0	99.5	89.8	83.7	80.9	79.0	80.9	83.7	89.8



TEST NUMBER: P331296-930

CATALOG NUMBER: S122DIP-S485D530U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	172.5	140.9	121.2	107.3	97.9	92.2	89.1	87.2	89.1	92.2	97.9
115°	180.8	152.5	132.5	119.9	110.6	105.1	102.3	100.0	102.3	105.1	110.6
117.5°	189.8	163.2	144.7	131.7	122.8	117.8	115.0	113.2	115.0	117.8	122.8
120°	195.8	170.6	152.5	139.5	130.2	126.0	123.2	121.3	123.2	126.0	130.2
122.5°	201.0	177.7	160.7	147.3	138.0	133.5	130.7	129.1	130.7	133.5	138.0
125°	209.2	188.3	171.5	158.6	149.3	143.7	140.9	139.5	140.9	143.7	149.3
127.5°	217.0	198.2	181.9	168.5	159.6	153.4	149.5	147.7	149.5	153.4	159.6
130°	221.8	204.2	187.8	174.8	165.5	159.0	154.3	152.5	154.3	159.0	165.5
132.5°	226.7	209.3	193.8	180.8	171.1	164.2	159.2	156.9	159.2	164.2	171.1
135°	232.9	216.7	201.8	188.7	178.1	171.1	165.5	163.6	165.5	171.1	178.1
137.5°	237.7	222.7	207.9	195.8	185.2	177.8	172.2	170.0	172.2	177.8	185.2
140°	240.4	226.0	212.1	199.9	189.7	182.3	176.7	174.8	176.7	182.3	189.7
142.5°	242.6	228.6	215.0	203.7	193.8	186.4	181.2	179.7	181.2	186.4	193.8
145°	245.5	232.4	219.9	209.7	200.4	193.4	188.7	186.9	188.7	193.4	200.4
147.5°	247.1	235.6	223.8	214.7	207.0	200.6	196.1	194.7	196.1	200.6	207.0
150°	247.9	237.1	226.4	218.1	211.1	205.0	201.3	199.9	201.3	205.0	211.1
152.5°	248.2	238.6	229.0	221.4	214.8	209.5	205.8	205.1	205.8	209.5	214.8
155°	248.7	240.8	232.9	226.0	220.9	215.7	213.0	212.5	213.0	215.7	220.9
157.5°	248.7	242.4	235.7	229.9	225.8	221.4	219.1	218.6	219.1	221.4	225.8
160°	248.7	243.2	237.6	232.4	228.8	225.0	223.1	222.7	223.1	225.0	228.8
162.5°	248.3	243.5	238.7	234.7	231.4	228.4	226.5	226.8	226.5	228.4	231.4
165°	247.4	244.1	239.9	237.1	234.8	232.0	231.1	231.5	231.1	232.0	234.8
167.5°	246.7	244.0	240.9	239.2	237.5	235.7	234.9	235.5	234.9	235.7	237.5
170°	246.0	243.6	241.3	239.9	239.0	237.6	237.1	238.1	237.1	237.6	239.0
172.5°	244.8	243.3	241.7	240.7	240.1	238.7	239.0	239.5	239.0	238.7	240.1
175°	243.6	242.7	241.7	241.3	241.3	240.4	240.8	241.3	240.8	240.4	241.3
177.5°	242.9	242.1	241.7	241.7	241.7	241.0	241.4	242.1	241.4	241.0	241.7
180°	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7



TEST NUMBER: P331296-930

CATALOG NUMBER: S122DIP-S485D530U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2
2.5°	781.8	780.3	775.2	772.5	768.2	764.0	761.3	762.5	763.5	763.0	762.3
5°	759.4	753.6	744.8	737.1	731.6	721.6	717.4	715.3	713.4	711.3	709.1
7.5°	732.7	723.6	710.9	700.1	689.8	677.4	670.3	665.9	661.5	656.7	652.5
10°	713.7	700.9	687.5	672.3	660.1	648.8	638.8	632.1	626.0	620.2	616.0
12.5°	693.7	679.0	662.4	641.6	628.2	612.0	610.6	598.8	589.2	585.6	580.7
15°	661.9	641.2	620.2	595.6	584.9	570.3	561.2	552.0	543.8	538.0	536.5
17.5°	625.8	599.0	578.1	560.4	543.0	528.0	519.6	512.3	505.5	497.7	496.8
20°	598.3	575.2	552.4	536.8	518.9	503.6	493.3	485.9	480.1	475.6	471.7
22.5°	572.3	546.9	526.0	509.0	491.3	479.0	470.8	463.8	459.0	454.0	450.2
25°	530.4	510.6	487.8	468.6	454.0	446.1	439.4	433.3	430.2	426.9	422.7
27.5°	493.8	471.8	450.5	435.6	422.7	415.7	411.0	406.8	404.0	402.0	399.6
30°	468.0	445.7	429.0	414.4	403.7	396.7	393.7	391.3	387.9	386.7	385.5
32.5°	443.1	423.1	408.8	396.2	386.0	381.4	378.6	376.4	373.8	372.6	370.1
35°	408.0	391.3	377.2	370.2	362.0	358.1	356.0	352.9	350.5	349.3	348.9
37.5°	375.0	360.4	351.1	342.2	338.7	336.2	333.4	331.3	330.5	330.4	330.0
40°	353.5	341.6	333.4	326.1	324.6	320.9	318.5	316.7	316.7	317.0	316.7
42.5°	334.0	323.3	316.1	309.8	308.0	305.8	303.4	303.3	303.8	304.8	303.8
45°	304.5	296.9	291.7	288.6	285.3	283.2	282.8	283.8	284.1	284.4	285.3
47.5°	277.3	272.2	267.6	264.2	262.8	262.4	262.0	263.6	265.1	265.6	267.0
50°	261.2	255.4	251.5	249.4	248.2	247.5	248.2	250.0	251.2	252.7	253.6
52.5°	243.2	239.1	236.4	234.7	234.2	234.6	234.7	236.8	238.8	239.3	239.8
55°	218.3	215.2	214.7	211.9	213.1	212.8	214.3	215.6	217.4	219.2	219.6
57.5°	193.5	191.0	189.4	189.6	190.0	191.4	192.6	194.8	196.7	198.6	198.9
60°	176.9	175.7	174.8	174.8	175.4	177.2	178.7	180.8	182.1	183.3	184.2
62.5°	161.8	160.6	159.6	160.1	161.8	162.8	164.6	165.8	167.0	168.2	168.6
65°	137.9	137.3	138.3	138.8	139.2	140.6	142.8	143.7	145.0	145.5	147.7
67.5°	115.9	116.1	115.9	116.8	118.5	119.0	120.9	123.1	123.4	124.5	125.9
70°	101.1	101.7	102.3	102.9	104.4	105.0	106.6	107.5	108.7	109.6	110.6
72.5°	87.5	87.6	88.2	88.1	89.4	90.7	92.0	92.9	94.1	95.2	96.1
75°	67.3	67.3	67.9	68.2	69.7	71.3	70.9	71.6	72.8	74.0	74.6
77.5°	49.2	48.5	49.2	49.4	49.9	51.2	51.4	52.3	53.7	53.3	54.0
80°	37.4	36.5	37.4	37.7	37.7	39.3	39.3	39.9	40.8	39.9	40.8
82.5°	26.7	26.3	27.0	27.1	27.6	27.6	28.0	28.2	29.1	28.7	29.1
85°	13.4	13.1	13.4	13.1	13.4	13.7	13.7	13.4	13.4	14.0	13.1
87.5°	5.2	5.3	5.5	6.2	6.4	6.4	6.0	5.9	5.7	5.4	5.5
90°	5.5	7.0	9.3	12.6	15.3	15.8	15.3	14.8	13.9	14.8	15.3
92.5°	16.7	21.1	31.6	46.4	59.6	60.4	51.0	40.5	34.8	30.9	28.0
95°	34.4	45.6	66.9	107.4	161.3	182.3	159.5	121.8	93.4	73.9	63.7
97.5°	48.8	61.5	88.4	144.7	234.3	311.1	326.4	284.3	232.6	182.3	148.7
100°	58.1	71.2	95.8	152.5	252.9	367.3	434.2	424.5	366.9	303.1	246.9
102.5°	66.7	79.7	102.5	152.9	245.9	369.2	474.4	516.4	503.4	456.8	397.1
105°	79.0	92.0	113.9	155.3	232.0	344.5	468.2	564.9	617.4	623.5	608.1
107.5°	91.3	104.4	125.6	161.7	225.1	318.1	427.4	529.9	609.1	657.5	680.0
110°	99.5	113.0	133.5	166.9	223.6	305.5	401.7	499.9	583.0	642.5	680.7



TEST NUMBER: P331296-930

CATALOG NUMBER: S122DIP-S485D530U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	107.3	121.2	140.9	172.5	224.0	297.3	383.8	472.3	552.2	615.8	659.5
115°	119.9	132.5	152.5	180.8	226.0	288.3	361.7	438.5	510.1	571.0	618.9
117.5°	131.7	144.7	163.2	189.8	229.3	283.9	347.8	412.9	475.8	531.1	576.0
120°	139.5	152.5	170.6	195.8	231.5	281.3	340.4	400.3	458.0	507.3	549.6
122.5°	147.3	160.7	177.7	201.0	234.2	279.8	334.0	390.3	443.1	489.8	528.0
125°	158.6	171.5	188.3	209.2	238.1	277.1	325.0	375.7	423.5	464.5	499.4
127.5°	168.5	181.9	198.2	217.0	242.1	275.6	316.7	361.3	404.6	443.2	475.4
130°	174.8	187.8	204.2	221.8	245.0	274.8	311.0	352.0	392.0	428.7	459.3
132.5°	180.8	193.8	209.3	226.7	248.0	274.4	306.6	343.1	380.1	413.8	442.6
135°	188.7	201.8	216.7	232.9	251.5	273.9	300.4	330.6	361.3	392.0	418.0
137.5°	195.8	207.9	222.7	237.7	254.7	273.8	296.0	320.7	346.3	370.6	393.4
140°	199.9	212.1	226.0	240.4	256.2	273.4	293.4	314.3	336.6	358.0	378.5
142.5°	203.7	215.0	228.6	242.6	257.3	273.4	290.8	309.1	328.1	346.5	363.6
145°	209.7	219.9	232.4	245.5	258.5	272.5	287.3	301.7	317.1	331.5	345.0
147.5°	214.7	223.8	235.6	247.1	258.9	270.8	283.8	296.1	308.2	319.4	329.3
150°	218.1	226.4	237.1	247.9	258.5	269.7	280.9	292.0	302.2	312.0	320.3
152.5°	221.4	229.0	238.6	248.2	257.8	267.8	278.3	287.9	297.4	305.7	312.9
155°	226.0	232.9	240.8	248.7	256.7	264.6	273.4	282.3	289.7	296.6	301.7
157.5°	229.9	235.7	242.4	248.7	254.5	261.2	268.8	275.7	281.8	287.7	291.7
160°	232.4	237.6	243.2	248.7	253.4	259.0	265.5	271.5	276.6	281.8	285.0
162.5°	234.7	238.7	243.5	248.3	252.3	257.1	262.5	267.4	271.8	276.2	278.7
165°	237.1	239.9	244.1	247.4	250.1	253.4	257.6	261.3	264.6	267.8	269.7
167.5°	239.2	240.9	244.0	246.7	248.0	250.1	252.7	255.4	258.0	260.2	261.9
170°	239.9	241.3	243.6	246.0	246.9	248.3	250.1	252.5	253.9	255.8	256.7
172.5°	240.7	241.7	243.3	244.8	245.4	246.1	247.5	249.2	250.1	251.6	252.2
175°	241.3	241.7	242.7	243.6	243.2	243.6	244.1	245.5	246.0	246.5	246.9
177.5°	241.7	241.7	242.1	242.9	242.1	241.7	242.1	242.9	242.9	243.3	243.3
180°	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7



TEST NUMBER: P331296-930

CATALOG NUMBER: S122DIP-S485D530U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2
2.5°	759.9	759.4	759.4	757.2	759.4	759.4	759.9	762.3	763.0	763.5	762.5
5°	704.9	703.9	702.5	703.9	702.5	703.9	704.9	709.1	711.3	713.4	715.3
7.5°	650.5	646.9	646.3	642.7	646.3	646.9	650.5	652.5	656.7	661.5	665.9
10°	610.8	608.4	608.1	602.3	608.1	608.4	610.8	616.0	620.2	626.0	632.1
12.5°	580.6	574.7	575.9	572.6	575.9	574.7	580.6	580.7	585.6	589.2	598.8
15°	528.2	528.2	527.1	521.9	527.1	528.2	528.2	536.5	538.0	543.8	552.0
17.5°	490.7	490.1	487.1	488.6	487.1	490.1	490.7	496.8	497.7	505.5	512.3
20°	468.3	466.4	462.8	462.8	462.8	466.4	468.3	471.7	475.6	480.1	485.9
22.5°	447.1	446.9	443.1	444.3	443.1	446.9	447.1	450.2	454.0	459.0	463.8
25°	422.3	419.9	418.1	419.0	418.1	419.9	422.3	422.7	426.9	430.2	433.3
27.5°	398.8	397.5	397.4	394.8	397.4	397.5	398.8	399.6	402.0	404.0	406.8
30°	385.1	382.1	382.7	381.2	382.7	382.1	385.1	385.5	386.7	387.9	391.3
32.5°	369.6	368.5	367.9	366.6	367.9	368.5	369.6	370.1	372.6	373.8	376.4
35°	348.3	348.6	347.1	347.7	347.1	348.6	348.3	348.9	349.3	350.5	352.9
37.5°	329.8	330.8	330.0	330.2	330.0	330.8	329.8	330.0	330.4	330.5	331.3
40°	317.6	317.6	317.6	318.5	317.6	317.6	317.6	316.7	317.0	316.7	316.7
42.5°	305.9	305.4	304.9	304.8	304.9	305.4	305.9	303.8	304.8	303.8	303.3
45°	285.9	286.8	287.1	285.6	287.1	286.8	285.9	285.3	284.4	284.1	283.8
47.5°	267.8	267.9	267.8	269.1	267.8	267.9	267.8	267.0	265.6	265.1	263.6
50°	255.2	254.5	255.2	254.5	255.2	254.5	255.2	253.6	252.7	251.2	250.0
52.5°	241.7	241.9	241.5	241.4	241.5	241.9	241.7	239.8	239.3	238.8	236.8
55°	220.8	221.4	221.0	221.0	221.0	221.4	220.8	219.6	219.2	217.4	215.6
57.5°	199.0	199.6	200.0	198.6	200.0	199.6	199.0	198.9	198.6	196.7	194.8
60°	183.9	185.4	185.2	184.5	185.2	185.4	183.9	184.2	183.3	182.1	180.8
62.5°	170.0	170.6	170.5	170.4	170.5	170.6	170.0	168.6	168.2	167.0	165.8
65°	148.5	149.2	148.3	149.2	148.3	149.2	148.5	147.7	145.5	145.0	143.7
67.5°	125.5	125.7	126.4	126.8	126.4	125.7	125.5	125.9	124.5	123.4	123.1
70°	111.1	110.8	111.8	112.7	111.8	110.8	111.1	110.6	109.6	108.7	107.5
72.5°	96.0	96.7	96.4	97.1	96.4	96.7	96.0	96.1	95.2	94.1	92.9
75°	74.0	74.9	74.6	75.5	74.6	74.9	74.0	74.6	74.0	72.8	71.6
77.5°	53.5	53.6	53.5	54.0	53.5	53.6	53.5	54.0	53.3	53.7	52.3
80°	40.8	40.2	39.5	40.8	39.5	40.2	40.8	40.8	39.9	40.8	39.9
82.5°	28.4	28.8	28.1	28.1	28.1	28.8	28.4	29.1	28.7	29.1	28.2
85°	13.1	12.8	12.1	12.1	12.1	12.8	13.1	13.1	14.0	13.4	13.4
87.5°	5.5	5.3	5.3	5.1	5.3	5.3	5.5	5.5	5.4	5.7	5.9
90°	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	14.8	13.9	14.8
92.5°	27.6	26.2	26.5	25.8	26.5	26.2	27.6	28.0	30.9	34.8	40.5
95°	57.6	54.0	52.5	53.0	52.5	54.0	57.6	63.7	73.9	93.4	121.8
97.5°	126.5	115.0	108.3	104.4	108.3	115.0	126.5	148.7	182.3	232.6	284.3
100°	208.3	188.3	174.8	166.5	174.8	188.3	208.3	246.9	303.1	366.9	424.5
102.5°	355.2	321.1	304.3	292.9	304.3	321.1	355.2	397.1	456.8	503.4	516.4
105°	579.4	550.5	530.5	524.0	530.5	550.5	579.4	608.1	623.5	617.4	564.9
107.5°	683.5	682.0	678.0	669.4	678.0	682.0	683.5	680.0	657.5	609.1	529.9
110°	700.7	709.6	713.7	713.2	713.7	709.6	700.7	680.7	642.5	583.0	499.9



TEST NUMBER: P331296-930

CATALOG NUMBER: S122DIP-S485D530U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	687.3	702.1	710.0	712.5	710.0	702.1	687.3	659.5	615.8	552.2	472.3
115°	651.8	673.3	685.3	689.5	685.3	673.3	651.8	618.9	571.0	510.1	438.5
117.5°	609.7	632.3	645.0	648.5	645.0	632.3	609.7	576.0	531.1	475.8	412.9
120°	582.1	604.0	617.4	622.1	617.4	604.0	582.1	549.6	507.3	458.0	400.3
122.5°	557.2	578.7	590.7	594.6	590.7	578.7	557.2	528.0	489.8	443.1	390.3
125°	526.4	544.0	555.6	559.4	555.6	544.0	526.4	499.4	464.5	423.5	375.7
127.5°	498.9	515.4	525.5	528.5	525.5	515.4	498.9	475.4	443.2	404.6	361.3
130°	482.2	498.0	507.3	510.9	507.3	498.0	482.2	459.3	428.7	392.0	352.0
132.5°	465.0	480.9	489.4	492.8	489.4	480.9	465.0	442.6	413.8	380.1	343.1
135°	438.0	453.3	461.7	463.6	461.7	453.3	438.0	418.0	392.0	361.3	330.6
137.5°	411.6	424.8	432.1	434.9	432.1	424.8	411.6	393.4	370.6	346.3	320.7
140°	393.4	405.4	412.4	415.2	412.4	405.4	393.4	378.5	358.0	336.6	314.3
142.5°	377.7	388.7	394.9	395.5	394.9	388.7	377.7	363.6	346.5	328.1	309.1
145°	356.1	364.0	368.7	370.1	368.7	364.0	356.1	345.0	331.5	317.1	301.7
147.5°	338.5	344.8	348.0	348.8	348.0	344.8	338.5	329.3	319.4	308.2	296.1
150°	327.3	332.9	335.7	336.1	335.7	332.9	327.3	320.3	312.0	302.2	292.0
152.5°	318.4	323.3	325.3	325.4	325.3	323.3	318.4	312.9	305.7	297.4	287.9
155°	306.9	310.1	312.0	311.0	312.0	310.1	306.9	301.7	296.6	289.7	282.3
157.5°	295.3	298.1	298.9	298.9	298.9	298.1	295.3	291.7	287.7	281.8	275.7
160°	288.3	290.6	291.1	291.1	291.1	290.6	288.3	285.0	281.8	276.6	271.5
162.5°	281.9	283.6	284.0	283.6	284.0	283.6	281.9	278.7	276.2	271.8	267.4
165°	271.5	273.4	273.4	273.0	273.4	273.4	271.5	269.7	267.8	264.6	261.3
167.5°	262.7	263.7	263.7	263.1	263.7	263.7	262.7	261.9	260.2	258.0	255.4
170°	257.1	258.5	258.0	257.1	258.0	258.5	257.1	256.7	255.8	253.9	252.5
172.5°	252.7	253.3	252.8	252.3	252.8	253.3	252.7	252.2	251.6	250.1	249.2
175°	246.9	247.4	246.9	246.0	246.9	247.4	246.9	246.9	246.5	246.0	245.5
177.5°	243.3	243.3	242.9	242.1	242.9	243.3	243.3	243.3	243.3	242.9	242.9
180°	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7



TEST NUMBER: P331296-930

CATALOG NUMBER: S122DIP-S485D530U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2
2.5°	761.3	764.0	768.2	772.5	775.2	780.3	781.8	784.2	786.4	791.5	796.9
5°	717.4	721.6	731.6	737.1	744.8	753.6	759.4	765.5	772.2	783.7	794.4
7.5°	670.3	677.4	689.8	700.1	710.9	723.6	732.7	744.8	754.7	771.0	786.7
10°	638.8	648.8	660.1	672.3	687.5	700.9	713.7	729.0	741.1	760.6	778.9
12.5°	610.6	612.0	628.2	641.6	662.4	679.0	693.7	713.3	725.3	748.4	767.7
15°	561.2	570.3	584.9	595.6	620.2	641.2	661.9	682.3	696.0	724.6	749.9
17.5°	519.6	528.0	543.0	560.4	578.1	599.0	625.8	647.3	665.9	698.6	728.6
20°	493.3	503.6	518.9	536.8	552.4	575.2	598.3	623.0	643.0	679.9	714.9
22.5°	470.8	479.0	491.3	509.0	526.0	546.9	572.3	599.1	620.2	659.9	695.5
25°	439.4	446.1	454.0	468.6	487.8	510.6	530.4	559.9	590.7	627.9	670.7
27.5°	411.0	415.7	422.7	435.6	450.5	471.8	493.8	521.8	552.8	593.0	638.4
30°	393.7	396.7	403.7	414.4	429.0	445.7	468.0	494.8	526.4	567.3	612.3
32.5°	378.6	381.4	386.0	396.2	408.8	423.1	443.1	469.9	500.1	540.2	590.1
35°	356.0	358.1	362.0	370.2	377.2	391.3	408.0	432.4	460.6	499.0	550.8
37.5°	333.4	336.2	338.7	342.2	351.1	360.4	375.0	395.5	423.3	462.0	511.4
40°	318.5	320.9	324.6	326.1	333.4	341.6	353.5	372.3	400.4	435.7	483.8
42.5°	303.4	305.8	308.0	309.8	316.1	323.3	334.0	350.3	375.0	409.4	457.1
45°	282.8	283.2	285.3	288.6	291.7	296.9	304.5	318.5	337.7	370.0	413.2
47.5°	262.0	262.4	262.8	264.2	267.6	272.2	277.3	288.7	305.9	331.7	373.7
50°	248.2	247.5	248.2	249.4	251.5	255.4	261.2	269.5	283.5	307.5	346.2
52.5°	234.7	234.6	234.2	234.7	236.4	239.1	243.2	250.2	262.8	284.9	318.9
55°	214.3	212.8	213.1	211.9	214.7	215.2	218.3	224.1	235.1	250.3	282.3
57.5°	192.6	191.4	190.0	189.6	189.4	191.0	193.5	198.0	206.4	219.8	245.7
60°	178.7	177.2	175.4	174.8	174.8	175.7	176.9	180.3	188.2	200.1	221.4
62.5°	164.6	162.8	161.8	160.1	159.6	160.6	161.8	164.2	169.9	181.1	199.4
65°	142.8	140.6	139.2	138.8	138.3	137.3	137.9	140.4	145.0	153.8	168.4
67.5°	120.9	119.0	118.5	116.8	115.9	116.1	115.9	118.1	120.7	128.3	139.3
70°	106.6	105.0	104.4	102.9	102.3	101.7	101.1	102.9	105.7	112.0	121.5
72.5°	92.0	90.7	89.4	88.1	88.2	87.6	87.5	88.5	90.8	96.7	104.0
75°	70.9	71.3	69.7	68.2	67.9	67.3	67.3	68.2	69.1	73.7	79.5
77.5°	51.4	51.2	49.9	49.4	49.2	48.5	49.2	49.7	50.2	53.3	57.6
80°	39.3	39.3	37.7	37.7	37.4	36.5	37.4	36.9	38.1	41.1	44.2
82.5°	28.0	27.6	27.6	27.1	27.0	26.3	26.7	27.3	27.8	29.9	31.7
85°	13.7	13.7	13.4	13.1	13.4	13.1	13.4	13.7	14.0	14.9	16.5
87.5°	6.0	6.4	6.4	6.2	5.5	5.3	5.2	5.3	5.6	5.5	5.5
90°	15.3	15.8	15.3	12.6	9.3	7.0	5.5	4.6	3.8	1.9	0.5
92.5°	51.0	60.4	59.6	46.4	31.6	21.1	16.7	13.6	11.5	8.2	5.7
95°	159.5	182.3	161.3	107.4	66.9	45.6	34.4	27.0	22.7	18.1	16.3
97.5°	326.4	311.1	234.3	144.7	88.4	61.5	48.8	40.3	33.9	29.0	26.5
100°	434.2	367.3	252.9	152.5	95.8	71.2	58.1	48.8	41.4	37.2	35.8
102.5°	474.4	369.2	245.9	152.9	102.5	79.7	66.7	57.0	49.6	45.4	44.4
105°	468.2	344.5	232.0	155.3	113.9	92.0	79.0	68.8	61.8	58.6	56.7
107.5°	427.4	318.1	225.1	161.7	125.6	104.4	91.3	81.2	74.8	71.6	70.1
110°	401.7	305.5	223.6	166.9	133.5	113.0	99.5	89.8	83.7	80.9	79.0



TEST NUMBER: P331296-930

CATALOG NUMBER: S122DIP-S485D530U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	383.8	297.3	224.0	172.5	140.9	121.2	107.3	97.9	92.2	89.1	87.2
115°	361.7	288.3	226.0	180.8	152.5	132.5	119.9	110.6	105.1	102.3	100.0
117.5°	347.8	283.9	229.3	189.8	163.2	144.7	131.7	122.8	117.8	115.0	113.2
120°	340.4	281.3	231.5	195.8	170.6	152.5	139.5	130.2	126.0	123.2	121.3
122.5°	334.0	279.8	234.2	201.0	177.7	160.7	147.3	138.0	133.5	130.7	129.1
125°	325.0	277.1	238.1	209.2	188.3	171.5	158.6	149.3	143.7	140.9	139.5
127.5°	316.7	275.6	242.1	217.0	198.2	181.9	168.5	159.6	153.4	149.5	147.7
130°	311.0	274.8	245.0	221.8	204.2	187.8	174.8	165.5	159.0	154.3	152.5
132.5°	306.6	274.4	248.0	226.7	209.3	193.8	180.8	171.1	164.2	159.2	156.9
135°	300.4	273.9	251.5	232.9	216.7	201.8	188.7	178.1	171.1	165.5	163.6
137.5°	296.0	273.8	254.7	237.7	222.7	207.9	195.8	185.2	177.8	172.2	170.0
140°	293.4	273.4	256.2	240.4	226.0	212.1	199.9	189.7	182.3	176.7	174.8
142.5°	290.8	273.4	257.3	242.6	228.6	215.0	203.7	193.8	186.4	181.2	179.7
145°	287.3	272.5	258.5	245.5	232.4	219.9	209.7	200.4	193.4	188.7	186.9
147.5°	283.8	270.8	258.9	247.1	235.6	223.8	214.7	207.0	200.6	196.1	194.7
150°	280.9	269.7	258.5	247.9	237.1	226.4	218.1	211.1	205.0	201.3	199.9
152.5°	278.3	267.8	257.8	248.2	238.6	229.0	221.4	214.8	209.5	205.8	205.1
155°	273.4	264.6	256.7	248.7	240.8	232.9	226.0	220.9	215.7	213.0	212.5
157.5°	268.8	261.2	254.5	248.7	242.4	235.7	229.9	225.8	221.4	219.1	218.6
160°	265.5	259.0	253.4	248.7	243.2	237.6	232.4	228.8	225.0	223.1	222.7
162.5°	262.5	257.1	252.3	248.3	243.5	238.7	234.7	231.4	228.4	226.5	226.8
165°	257.6	253.4	250.1	247.4	244.1	239.9	237.1	234.8	232.0	231.1	231.5
167.5°	252.7	250.1	248.0	246.7	244.0	240.9	239.2	237.5	235.7	234.9	235.5
170°	250.1	248.3	246.9	246.0	243.6	241.3	239.9	239.0	237.6	237.1	238.1
172.5°	247.5	246.1	245.4	244.8	243.3	241.7	240.7	240.1	238.7	239.0	239.5
175°	244.1	243.6	243.2	243.6	242.7	241.7	241.3	241.3	240.4	240.8	241.3
177.5°	242.1	241.7	242.1	242.9	242.1	241.7	241.7	241.7	241.0	241.4	242.1
180°	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7



TEST NUMBER: P331296-930

CATALOG NUMBER: S122DIP-S485D530U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2	792.2
2.5°	796.4	797.6	801.5	805.4	809.8	811.0	812.9	811.2	810.7	815.4	818.8
5°	798.7	804.1	814.8	824.5	832.7	838.5	844.7	847.1	851.7	858.0	865.9
7.5°	796.1	806.7	823.5	837.7	853.1	864.3	873.0	880.4	889.4	901.6	914.8
10°	793.2	807.5	827.9	845.2	864.1	878.4	890.3	901.9	915.3	932.1	949.3
12.5°	787.8	804.8	830.3	850.8	875.1	889.2	905.1	930.1	944.5	967.8	992.2
15°	777.1	795.9	831.5	856.8	884.2	911.0	940.5	964.3	988.1	1001.8	1036.2
17.5°	761.0	788.7	828.2	857.7	892.5	934.7	967.8	994.8	1022.2	1044.4	1061.7
20°	748.1	778.3	823.3	858.7	900.0	945.4	983.5	1010.9	1034.6	1053.2	1063.9
22.5°	731.8	769.7	813.6	855.0	907.8	952.8	992.7	1014.3	1034.1	1043.2	1047.3
25°	706.0	751.8	801.4	851.9	911.6	959.1	995.6	1008.8	1014.6	1005.7	991.1
27.5°	678.4	729.3	787.3	846.2	909.3	955.0	981.1	979.1	969.3	940.7	917.9
30°	657.7	713.7	776.1	840.3	903.7	948.1	963.4	948.1	925.9	894.0	861.4
32.5°	636.0	694.0	764.2	832.1	893.5	932.5	935.9	909.6	875.2	838.9	798.3
35°	603.2	665.9	741.7	813.6	871.7	896.4	881.7	835.5	794.7	745.1	689.7
37.5°	566.1	635.4	711.3	786.4	839.2	845.6	809.3	760.6	703.0	644.7	579.5
40°	538.3	611.7	690.0	765.7	812.4	805.7	759.4	705.8	637.2	566.1	505.4
42.5°	513.5	586.9	666.6	740.9	778.3	759.9	705.8	640.0	566.4	499.3	443.8
45°	470.4	545.9	627.5	699.4	720.7	687.5	616.0	542.9	470.4	414.4	370.6
47.5°	428.7	503.3	584.1	647.3	654.8	610.2	532.0	456.8	394.5	348.9	318.0
50°	397.9	472.9	552.9	609.3	606.8	552.9	472.5	401.0	348.9	312.1	291.4
52.5°	370.4	441.2	518.1	569.3	556.4	497.7	420.9	357.4	314.6	285.8	267.0
55°	327.6	393.1	466.2	507.3	483.6	418.3	353.5	302.3	270.7	249.1	234.5
57.5°	285.1	346.5	409.0	434.4	408.1	348.0	293.9	256.8	233.0	217.0	207.5
60°	258.8	312.4	368.1	390.0	358.7	305.1	262.4	229.3	210.1	197.0	188.5
62.5°	232.5	280.5	333.0	345.0	316.3	271.0	233.3	205.6	189.9	178.2	170.2
65°	196.7	235.9	275.9	283.8	257.3	222.3	192.4	174.5	160.5	152.0	145.5
67.5°	161.3	192.8	221.1	227.5	204.3	180.0	158.4	142.8	133.3	126.2	120.8
70°	140.4	165.3	188.5	193.6	175.0	153.4	137.1	124.5	116.0	109.9	104.8
72.5°	118.2	139.0	158.2	161.8	146.6	130.0	116.6	106.7	99.2	95.3	90.3
75°	90.4	102.6	117.6	118.5	108.4	98.3	88.0	81.6	77.6	72.8	70.4
77.5°	63.8	73.4	81.9	83.6	77.6	70.8	65.0	59.9	56.6	54.3	52.1
80°	48.8	56.3	60.0	62.1	57.9	53.0	49.7	46.3	44.2	42.6	41.1
82.5°	34.8	39.5	43.0	44.6	42.2	39.4	36.0	34.1	32.4	31.1	30.7
85°	17.7	19.8	21.9	22.5	21.9	20.7	18.9	18.9	17.9	17.7	17.7
87.5°	6.4	7.8	8.0	8.9	8.7	9.1	9.8	10.1	9.9	9.6	9.3
90°	1.9	3.8	4.6	5.5	7.0	9.3	12.6	15.3	15.8	15.3	14.8
92.5°	8.2	11.5	13.6	16.7	21.1	31.6	46.4	59.6	60.4	51.0	40.5
95°	18.1	22.7	27.0	34.4	45.6	66.9	107.4	161.3	182.3	159.5	121.8
97.5°	29.0	33.9	40.3	48.8	61.5	88.4	144.7	234.3	311.1	326.4	284.3
100°	37.2	41.4	48.8	58.1	71.2	95.8	152.5	252.9	367.3	434.2	424.5
102.5°	45.4	49.6	57.0	66.7	79.7	102.5	152.9	245.9	369.2	474.4	516.4
105°	58.6	61.8	68.8	79.0	92.0	113.9	155.3	232.0	344.5	468.2	564.9
107.5°	71.6	74.8	81.2	91.3	104.4	125.6	161.7	225.1	318.1	427.4	529.9
110°	80.9	83.7	89.8	99.5	113.0	133.5	166.9	223.6	305.5	401.7	499.9



TEST NUMBER: P331296-930

CATALOG NUMBER: S122DIP-S485D530U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	89.1	92.2	97.9	107.3	121.2	140.9	172.5	224.0	297.3	383.8	472.3
115°	102.3	105.1	110.6	119.9	132.5	152.5	180.8	226.0	288.3	361.7	438.5
117.5°	115.0	117.8	122.8	131.7	144.7	163.2	189.8	229.3	283.9	347.8	412.9
120°	123.2	126.0	130.2	139.5	152.5	170.6	195.8	231.5	281.3	340.4	400.3
122.5°	130.7	133.5	138.0	147.3	160.7	177.7	201.0	234.2	279.8	334.0	390.3
125°	140.9	143.7	149.3	158.6	171.5	188.3	209.2	238.1	277.1	325.0	375.7
127.5°	149.5	153.4	159.6	168.5	181.9	198.2	217.0	242.1	275.6	316.7	361.3
130°	154.3	159.0	165.5	174.8	187.8	204.2	221.8	245.0	274.8	311.0	352.0
132.5°	159.2	164.2	171.1	180.8	193.8	209.3	226.7	248.0	274.4	306.6	343.1
135°	165.5	171.1	178.1	188.7	201.8	216.7	232.9	251.5	273.9	300.4	330.6
137.5°	172.2	177.8	185.2	195.8	207.9	222.7	237.7	254.7	273.8	296.0	320.7
140°	176.7	182.3	189.7	199.9	212.1	226.0	240.4	256.2	273.4	293.4	314.3
142.5°	181.2	186.4	193.8	203.7	215.0	228.6	242.6	257.3	273.4	290.8	309.1
145°	188.7	193.4	200.4	209.7	219.9	232.4	245.5	258.5	272.5	287.3	301.7
147.5°	196.1	200.6	207.0	214.7	223.8	235.6	247.1	258.9	270.8	283.8	296.1
150°	201.3	205.0	211.1	218.1	226.4	237.1	247.9	258.5	269.7	280.9	292.0
152.5°	205.8	209.5	214.8	221.4	229.0	238.6	248.2	257.8	267.8	278.3	287.9
155°	213.0	215.7	220.9	226.0	232.9	240.8	248.7	256.7	264.6	273.4	282.3
157.5°	219.1	221.4	225.8	229.9	235.7	242.4	248.7	254.5	261.2	268.8	275.7
160°	223.1	225.0	228.8	232.4	237.6	243.2	248.7	253.4	259.0	265.5	271.5
162.5°	226.5	228.4	231.4	234.7	238.7	243.5	248.3	252.3	257.1	262.5	267.4
165°	231.1	232.0	234.8	237.1	239.9	244.1	247.4	250.1	253.4	257.6	261.3
167.5°	234.9	235.7	237.5	239.2	240.9	244.0	246.7	248.0	250.1	252.7	255.4
170°	237.1	237.6	239.0	239.9	241.3	243.6	246.0	246.9	248.3	250.1	252.5
172.5°	239.0	238.7	240.1	240.7	241.7	243.3	244.8	245.4	246.1	247.5	249.2
175°	240.8	240.4	241.3	241.3	241.7	242.7	243.6	243.2	243.6	244.1	245.5
177.5°	241.4	241.0	241.7	241.7	241.7	242.1	242.9	242.1	241.7	242.1	242.9
180°	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7	241.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	792.2	792.2	792.2	792.2	792.2	792.2	792.2
2.5°	821.7	825.2	825.2	825.7	829.5	829.1	828.8
5°	874.5	879.6	880.3	885.7	889.4	888.2	884.8
7.5°	924.2	933.8	941.2	945.3	950.1	953.0	951.7
10°	963.7	977.7	986.2	992.0	999.0	1004.2	1002.3
12.5°	999.5	1016.2	1027.8	1037.8	1038.7	1045.4	1040.8
15°	1055.3	1073.0	1074.8	1082.1	1087.9	1087.3	1087.6
17.5°	1073.7	1079.5	1080.6	1080.8	1080.8	1078.7	1074.1
20°	1067.2	1065.1	1059.9	1056.0	1049.0	1048.0	1042.0
22.5°	1036.0	1029.2	1016.3	1007.7	996.8	993.9	992.2
25°	974.6	959.7	939.0	919.2	913.7	903.1	906.1
27.5°	890.4	867.2	844.7	828.7	814.2	798.2	802.7
30°	831.2	805.0	773.4	749.0	733.5	718.3	715.5
32.5°	760.6	722.2	686.9	665.4	641.6	632.0	621.5
35°	638.8	601.4	566.3	536.2	518.9	505.4	493.3
37.5°	529.2	486.2	457.9	433.5	420.9	413.3	415.2
40°	461.3	423.5	402.8	384.3	372.7	367.2	368.4
42.5°	406.3	378.0	360.9	348.2	340.1	337.0	336.2
45°	343.7	327.9	313.9	306.6	302.6	299.3	297.2
47.5°	301.2	288.2	280.3	276.0	272.5	269.1	269.0
50°	275.6	267.0	261.5	257.0	254.2	251.8	254.0
52.5°	256.1	248.3	242.8	238.7	237.7	235.5	235.5
55°	227.1	221.0	217.1	213.4	211.7	210.4	208.9
57.5°	200.8	195.0	191.4	189.1	185.6	184.4	183.9
60°	182.1	177.5	173.8	170.8	169.3	166.9	166.9
62.5°	164.8	160.2	156.8	154.5	152.0	151.0	151.2
65°	139.7	136.1	132.7	130.3	129.7	127.9	128.5
67.5°	116.8	114.3	110.8	109.4	108.3	107.3	106.6
70°	101.4	99.0	97.1	95.3	94.4	94.4	94.4
72.5°	88.5	85.5	84.5	82.2	82.7	81.7	80.7
75°	68.5	66.7	65.8	64.8	63.3	63.3	63.3
77.5°	50.4	49.9	48.8	47.8	47.5	47.1	47.3
80°	39.0	38.6	38.1	38.1	37.4	37.2	36.5
82.5°	29.9	29.2	28.8	28.5	28.5	28.4	28.3
85°	17.0	16.5	16.5	16.7	16.1	16.1	16.5
87.5°	9.4	9.5	9.4	9.4	9.6	9.4	9.4
90°	13.9	14.8	15.3	15.3	15.3	15.3	15.3
92.5°	34.8	30.9	28.0	27.6	26.2	26.5	25.8
95°	93.4	73.9	63.7	57.6	54.0	52.5	53.0
97.5°	232.6	182.3	148.7	126.5	115.0	108.3	104.4
100°	366.9	303.1	246.9	208.3	188.3	174.8	166.5
102.5°	503.4	456.8	397.1	355.2	321.1	304.3	292.9
105°	617.4	623.5	608.1	579.4	550.5	530.5	524.0
107.5°	609.1	657.5	680.0	683.5	682.0	678.0	669.4
110°	583.0	642.5	680.7	700.7	709.6	713.7	713.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	552.2	615.8	659.5	687.3	702.1	710.0	712.5
115°	510.1	571.0	618.9	651.8	673.3	685.3	689.5
117.5°	475.8	531.1	576.0	609.7	632.3	645.0	648.5
120°	458.0	507.3	549.6	582.1	604.0	617.4	622.1
122.5°	443.1	489.8	528.0	557.2	578.7	590.7	594.6
125°	423.5	464.5	499.4	526.4	544.0	555.6	559.4
127.5°	404.6	443.2	475.4	498.9	515.4	525.5	528.5
130°	392.0	428.7	459.3	482.2	498.0	507.3	510.9
132.5°	380.1	413.8	442.6	465.0	480.9	489.4	492.8
135°	361.3	392.0	418.0	438.0	453.3	461.7	463.6
137.5°	346.3	370.6	393.4	411.6	424.8	432.1	434.9
140°	336.6	358.0	378.5	393.4	405.4	412.4	415.2
142.5°	328.1	346.5	363.6	377.7	388.7	394.9	395.5
145°	317.1	331.5	345.0	356.1	364.0	368.7	370.1
147.5°	308.2	319.4	329.3	338.5	344.8	348.0	348.8
150°	302.2	312.0	320.3	327.3	332.9	335.7	336.1
152.5°	297.4	305.7	312.9	318.4	323.3	325.3	325.4
155°	289.7	296.6	301.7	306.9	310.1	312.0	311.0
157.5°	281.8	287.7	291.7	295.3	298.1	298.9	298.9
160°	276.6	281.8	285.0	288.3	290.6	291.1	291.1
162.5°	271.8	276.2	278.7	281.9	283.6	284.0	283.6
165°	264.6	267.8	269.7	271.5	273.4	273.4	273.0
167.5°	258.0	260.2	261.9	262.7	263.7	263.7	263.1
170°	253.9	255.8	256.7	257.1	258.5	258.0	257.1
172.5°	250.1	251.6	252.2	252.7	253.3	252.8	252.3
175°	246.0	246.5	246.9	246.9	247.4	246.9	246.0
177.5°	242.9	243.3	243.3	243.3	243.3	242.9	242.1
180°	241.7	241.7	241.7	241.7	241.7	241.7	241.7

(END OF REPORT)