

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: P331314-830

Luminaire Tested: **S122DIP-S485D925U830-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331314-830
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-S485D925U830-4F0-1E-UDD-A4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 925 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5428.9 lumens
Efficiency: N/A
Efficacy: 122.0 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: Semi-Indirect

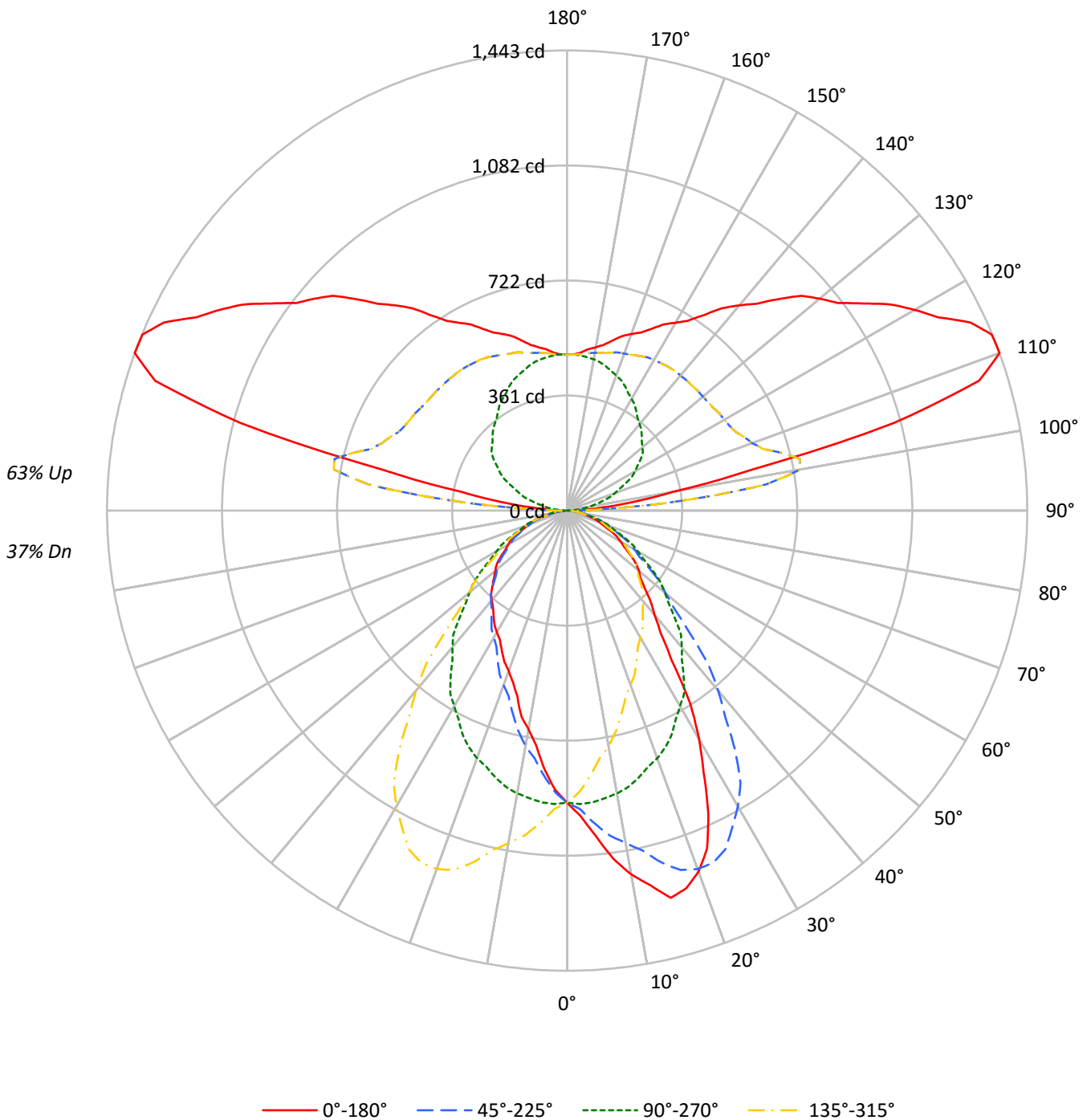
Input Watts (W): 44.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	104	104	104	94	94	94	94	76	76	76	60	60	60	44	44	44	37
1	95	91	87	84	86	83	80	77	67	65	63	53	52	50	40	39	38	32
2	87	80	74	69	79	73	68	64	59	56	53	47	45	43	35	34	33	27
3	80	71	64	58	72	64	58	54	53	48	45	42	39	36	32	30	28	24
4	73	63	55	49	66	57	51	46	47	42	38	37	34	31	29	26	25	21
5	67	56	48	42	61	51	44	39	42	37	33	34	30	27	26	24	22	18
6	62	50	42	37	56	46	39	34	38	33	29	31	27	24	24	21	19	16
7	57	45	38	32	52	42	35	30	35	29	26	28	24	21	22	19	17	14
8	53	41	34	29	48	38	31	27	32	27	23	26	22	19	20	17	16	13
9	49	38	30	26	45	35	28	24	29	24	21	24	20	17	18	16	14	12
10	46	34	28	23	42	32	26	21	27	22	19	22	18	16	17	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	14788	14788	14788	14788
5°	16579	14885	13190	14885
10°	18998	14762	11416	14762
15°	21018	14492	10084	14492
20°	20697	14201	9194	14201
25°	18661	13814	8630	13814
30°	15422	13196	8216	13196
35°	11239	12552	7924	12552
40°	8977	11788	7761	11788
45°	7846	10908	7540	10908
50°	7375	10052	7392	10052
55°	6798	9185	7192	9185
60°	6229	8263	6888	8263
65°	5673	7435	6590	7435
70°	5150	6628	6151	6628
75°	4566	5733	5446	5733
80°	3924	4751	4379	4751
85°	3520	3520	2594	3520



TEST NUMBER: P331314-830

CATALOG NUMBER: S122DIP-S485D925U830-4F0-1E-UDD-A4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.2	1.6
10°-20°	253.6	4.7
20°-30°	368.0	6.8
30°-40°	388.4	7.2
40°-50°	343.9	6.3
50°-60°	274.4	5.1
60°-70°	186.5	3.4
70°-80°	95.6	1.8
80°-90°	27.5	0.5
90°-100°	195.6	3.6
100°-110°	663.7	12.2
110°-120°	705.1	13.0
120°-130°	580.4	10.7
130°-140°	466.1	8.6
140°-150°	352.2	6.5
150°-160°	247.5	4.6
160°-170°	145.7	2.7
170°-180°	47.4	0.9
0°-30°	708.8	13.1
0°-40°	1097.2	20.2
0°-60°	1715.5	31.6
0°-90°	2025.1	37.3
90°-120°	1564.4	28.8
90°-150°	2963.2	54.6
90°-180°	3404.0	62.7
0°-180°	5428.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	916	916	916	916	916	
5°	1023	918	814	918	1023	102
15°	1257	867	603	867	1257	347
25°	1048	775	484	775	1048	473
35°	570	637	402	637	570	371
45°	344	478	330	478	344	270
55°	242	326	256	326	242	217
65°	148	195	172	195	148	148
75°	73	92	87	92	73	78
85°	19	19	14	19	19	22
90°	31	1	31	1	31	17
95°	107	33	107	33	107	139
105°	1060	115	1060	115	1060	1026
115°	1395	202	1395	202	1395	1366
125°	1132	282	1132	282	1132	1023
135°	938	331	938	331	938	729
145°	749	378	749	378	749	476
155°	629	430	629	430	629	294
165°	552	468	552	468	552	158
175°	498	488	498	488	498	48
180°	489	489	489	489	489	



TEST NUMBER: P331314-830

CATALOG NUMBER: S122DIP-S485D925U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9
2.5°	958.2	958.5	958.9	954.5	953.9	953.9	950.0	946.6	942.6	937.3	937.8
5°	1022.9	1026.8	1028.2	1024.0	1017.7	1016.9	1011.0	1001.1	991.9	984.6	979.3
7.5°	1100.2	1101.7	1098.3	1092.8	1088.1	1079.6	1068.5	1057.5	1042.3	1028.2	1017.9
10°	1158.8	1160.9	1154.9	1146.8	1140.1	1130.3	1114.1	1097.5	1077.5	1058.1	1042.6
12.5°	1203.2	1208.5	1200.8	1199.8	1188.3	1174.8	1155.5	1147.1	1118.9	1091.9	1075.3
15°	1257.4	1257.0	1257.7	1251.0	1242.6	1240.5	1220.0	1197.9	1158.1	1142.3	1114.7
17.5°	1241.7	1247.1	1249.5	1249.4	1249.2	1247.9	1241.3	1227.4	1207.4	1181.8	1150.1
20°	1204.6	1211.5	1212.7	1220.8	1225.3	1231.3	1233.8	1229.9	1217.6	1196.1	1168.7
22.5°	1147.1	1149.1	1152.4	1165.0	1174.9	1189.9	1197.7	1210.7	1206.0	1195.5	1172.6
25°	1047.5	1044.1	1056.3	1062.7	1085.5	1109.5	1126.7	1145.8	1162.6	1172.9	1166.2
27.5°	928.0	922.7	941.2	958.0	976.6	1002.5	1029.4	1061.1	1087.5	1120.6	1131.9
30°	827.2	830.4	848.0	865.9	894.1	930.7	960.9	995.8	1033.5	1070.4	1096.1
32.5°	718.5	730.7	741.8	769.3	794.1	834.9	879.3	922.8	969.9	1011.8	1051.6
35°	570.2	584.3	599.8	619.9	654.7	695.2	738.5	797.3	861.4	918.7	965.9
37.5°	479.9	477.8	486.6	501.1	529.3	562.0	611.8	670.0	745.4	812.8	879.3
40°	425.9	424.5	430.8	444.2	465.7	489.7	533.3	584.3	654.4	736.7	816.0
42.5°	388.7	389.6	393.1	402.6	417.3	437.0	469.7	513.1	577.2	654.8	739.9
45°	343.6	346.0	349.9	354.5	362.9	379.1	397.4	428.4	479.1	543.8	627.6
47.5°	311.0	311.1	315.0	319.1	324.0	333.2	348.2	367.6	403.3	456.1	528.1
50°	293.6	291.1	293.9	297.1	302.4	308.7	318.6	336.9	360.8	403.4	463.5
52.5°	272.2	272.2	274.8	276.0	280.7	287.0	296.1	308.7	330.4	363.7	413.2
55°	241.5	243.3	244.7	246.8	251.0	255.5	262.6	271.1	287.9	312.9	349.5
57.5°	212.6	213.2	214.6	218.6	221.3	225.5	232.1	239.9	250.8	269.4	296.9
60°	192.9	192.9	195.7	197.5	201.0	205.2	210.5	217.9	227.7	242.9	265.0
62.5°	174.8	174.6	175.7	178.6	181.3	185.2	190.5	196.8	206.0	219.5	237.7
65°	148.5	147.9	150.0	150.6	153.4	157.3	161.6	168.2	175.7	185.5	201.7
67.5°	123.2	124.0	125.2	126.5	128.1	132.1	135.0	139.7	145.9	154.1	165.1
70°	109.1	109.1	109.1	110.2	112.3	114.4	117.3	121.1	127.1	134.1	143.9
72.5°	93.3	94.4	95.6	95.0	97.6	98.9	102.3	104.4	110.2	114.7	123.4
75°	73.2	73.2	73.2	74.9	76.1	77.1	79.2	81.3	84.2	89.7	94.3
77.5°	54.7	54.5	54.9	55.2	56.4	57.7	58.2	60.2	62.8	65.4	69.3
80°	42.2	43.0	43.3	44.0	44.0	44.7	45.1	47.5	49.3	51.1	53.5
82.5°	32.7	32.8	32.9	33.0	33.3	33.7	34.6	35.4	36.0	37.5	39.4
85°	19.0	18.7	18.7	19.3	19.0	19.0	19.7	20.5	20.5	20.7	21.9
87.5°	13.6	13.6	13.9	13.6	13.6	13.7	13.3	13.4	13.9	14.3	14.4
90°	31.0	31.0	31.0	31.0	31.0	30.1	28.2	30.1	31.0	32.0	31.0
92.5°	52.1	53.6	52.9	55.9	56.6	62.5	70.4	82.0	103.3	122.2	120.6
95°	107.3	106.3	109.1	116.7	128.8	149.6	189.1	246.5	322.6	368.7	326.4
97.5°	211.1	219.0	232.7	255.9	300.9	368.7	470.5	575.1	660.3	629.5	474.1
100°	336.8	353.7	381.0	421.4	499.5	613.3	742.2	858.8	878.6	743.1	511.7
102.5°	592.7	615.6	649.6	718.7	803.5	924.2	1018.4	1044.7	959.9	746.9	497.5
105°	1060.2	1073.3	1113.8	1172.1	1230.4	1261.5	1249.2	1142.9	947.3	697.0	469.4
107.5°	1354.2	1371.7	1379.8	1383.0	1375.6	1330.1	1232.3	1072.2	864.7	643.7	455.4
110°	1443.0	1444.0	1435.5	1417.6	1377.1	1300.0	1179.6	1011.3	812.8	618.0	452.5



TEST NUMBER: P331314-830

CATALOG NUMBER: S122DIP-S485D925U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1441.5	1436.4	1420.4	1390.5	1334.3	1245.9	1117.2	955.5	776.7	601.4	453.2
115°	1395.1	1386.6	1362.1	1318.8	1252.1	1155.2	1031.9	887.0	731.9	583.2	457.1
117.5°	1312.0	1305.0	1279.1	1233.4	1165.4	1074.4	962.7	835.5	703.6	574.4	463.9
120°	1258.7	1249.2	1221.9	1177.7	1111.9	1026.2	926.6	809.9	688.6	569.1	468.4
122.5°	1203.0	1195.0	1170.7	1127.3	1068.3	990.9	896.5	789.6	675.8	566.1	473.7
125°	1131.6	1124.1	1100.6	1064.9	1010.3	939.7	857.0	760.1	657.5	560.6	481.6
127.5°	1069.2	1063.2	1042.8	1009.4	961.8	896.6	818.6	730.9	640.6	557.4	489.7
130°	1033.8	1026.2	1007.5	975.5	929.4	867.3	793.0	712.1	629.3	555.9	495.8
132.5°	996.9	990.1	972.9	940.8	895.5	837.2	768.9	694.0	620.3	555.2	501.7
135°	937.8	934.1	917.2	886.1	845.6	793.0	730.9	668.8	607.7	554.0	508.9
137.5°	880.0	874.3	859.4	832.7	795.8	749.9	700.6	648.7	598.8	553.8	515.3
140°	840.0	834.4	820.3	795.8	765.7	724.3	681.1	635.9	593.6	553.1	518.3
142.5°	800.1	799.0	786.5	764.2	735.7	701.0	663.7	625.4	588.3	553.1	520.6
145°	748.8	745.9	736.6	720.6	698.0	670.7	641.6	610.5	581.4	551.2	523.0
147.5°	705.7	704.0	697.6	684.9	666.2	646.2	623.5	599.0	574.2	547.9	523.8
150°	680.1	679.2	673.5	662.2	648.1	631.2	611.4	590.8	568.2	545.6	523.0
152.5°	658.3	658.1	653.9	644.1	633.1	618.4	601.6	582.5	562.9	541.9	521.5
155°	629.3	631.2	627.5	620.9	610.5	600.1	586.1	571.0	553.1	535.3	519.2
157.5°	604.6	604.6	602.9	597.5	590.2	582.1	570.2	557.6	543.9	528.5	514.9
160°	588.9	588.9	588.0	583.2	576.6	570.0	559.7	549.3	537.2	524.0	512.6
162.5°	573.8	574.6	573.6	570.4	563.8	558.7	549.9	541.1	531.1	520.2	510.4
165°	552.1	553.1	553.1	549.3	545.6	541.9	535.3	528.7	521.1	512.6	506.1
167.5°	532.3	533.4	533.6	531.5	529.8	526.4	521.9	516.8	511.3	506.1	501.7
170°	520.2	522.1	523.0	520.2	519.2	517.4	513.6	510.8	506.1	502.3	499.5
172.5°	510.4	511.5	512.5	511.1	510.2	509.1	506.1	504.0	500.9	497.9	496.5
175°	497.7	499.5	500.5	499.5	499.5	498.6	497.7	496.7	493.9	492.9	492.0
177.5°	489.9	491.4	492.2	492.2	492.2	492.2	491.4	491.4	489.9	489.2	489.9
180°	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2



TEST NUMBER: P331314-830

CATALOG NUMBER: S122DIP-S485D925U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9
2.5°	939.8	937.5	936.1	931.1	926.6	922.1	920.7	921.2	915.0	909.2	906.6
5°	976.5	969.4	962.7	953.2	942.0	929.6	923.3	918.4	906.1	892.7	885.0
7.5°	1009.3	999.2	986.3	968.5	952.1	932.6	920.3	909.5	891.4	872.5	861.0
10°	1029.3	1015.5	999.0	977.1	957.1	933.5	917.0	900.4	879.3	856.8	842.7
12.5°	1046.4	1027.9	1011.6	983.6	959.9	930.4	910.8	887.5	865.3	838.5	824.6
15°	1087.3	1053.2	1022.2	990.5	961.3	920.1	898.3	867.0	837.7	804.6	788.8
17.5°	1118.9	1080.5	1031.8	991.6	957.4	911.8	879.8	842.3	807.7	769.9	748.4
20°	1137.0	1093.0	1040.5	992.7	951.8	899.8	864.9	826.5	786.0	743.4	720.2
22.5°	1147.6	1101.5	1049.5	988.4	940.6	889.9	846.0	804.0	762.9	717.0	692.6
25°	1151.0	1108.8	1053.9	984.9	926.4	869.1	816.2	775.4	725.9	682.9	647.3
27.5°	1134.3	1104.0	1051.2	978.3	910.2	843.1	784.3	738.0	685.6	639.0	603.2
30°	1113.7	1096.1	1044.7	971.5	897.2	825.1	760.3	707.8	655.8	608.6	572.0
32.5°	1081.9	1078.1	1032.9	962.0	883.4	802.3	735.3	682.2	624.5	578.2	543.3
35°	1019.4	1036.3	1007.8	940.6	857.4	769.9	697.3	636.8	576.9	532.5	499.8
37.5°	935.7	977.6	970.2	909.2	822.4	734.5	654.4	591.2	534.1	489.4	457.2
40°	877.9	931.4	939.1	885.2	797.7	707.2	622.4	559.3	503.7	462.9	430.5
42.5°	816.0	878.4	899.8	856.6	770.6	678.4	593.6	528.4	473.3	433.6	404.9
45°	712.1	794.8	833.2	808.5	725.5	631.1	543.8	477.7	427.7	390.4	368.2
47.5°	615.0	705.4	757.1	748.3	675.2	581.8	495.6	432.1	383.4	353.6	333.8
50°	546.3	639.2	701.5	704.4	639.2	546.7	460.1	400.2	355.5	327.7	311.5
52.5°	486.6	575.3	643.3	658.2	599.0	510.0	428.2	368.7	329.3	303.8	289.3
55°	408.7	483.6	559.0	586.4	538.9	454.4	378.7	326.3	289.4	271.7	259.1
57.5°	339.8	402.3	471.8	502.2	472.9	400.6	329.6	284.1	254.1	238.7	228.9
60°	303.4	352.7	414.6	450.9	425.6	361.2	299.2	255.9	231.3	217.5	208.4
62.5°	269.7	313.3	365.6	398.8	385.0	324.2	268.8	230.5	209.3	196.4	189.8
65°	222.4	256.9	297.5	328.1	319.0	272.8	227.4	194.6	177.8	167.6	162.3
67.5°	183.1	208.1	236.2	263.0	255.6	222.9	186.5	161.0	148.4	139.6	136.5
70°	158.4	177.4	202.4	223.9	217.9	191.1	162.3	140.4	129.5	122.2	118.9
72.5°	134.8	150.3	169.5	187.0	182.9	160.7	136.7	120.2	111.8	105.0	102.4
75°	101.7	113.7	125.4	137.0	135.9	118.7	104.5	91.9	85.2	79.9	78.9
77.5°	75.1	81.8	89.7	96.6	94.7	84.8	73.8	66.5	61.6	58.1	57.5
80°	57.4	61.3	66.9	71.8	69.4	65.1	56.4	51.1	47.5	44.0	42.6
82.5°	41.6	45.5	48.8	51.6	49.7	45.7	40.2	36.7	34.6	32.1	31.6
85°	21.9	23.9	25.4	26.0	25.4	22.9	20.5	19.0	17.2	16.2	15.8
87.5°	13.6	12.3	11.3	11.3	10.1	9.7	7.8	6.4	6.7	7.2	7.0
90°	25.4	18.9	14.1	11.3	9.4	7.5	3.8	0.9	3.8	7.5	9.4
92.5°	93.9	64.0	42.7	33.8	27.4	23.4	16.6	11.5	16.6	23.4	27.4
95°	217.3	135.4	92.2	69.7	54.6	46.1	36.7	32.9	36.7	46.1	54.6
97.5°	292.8	178.7	124.3	98.8	81.4	68.7	58.7	53.6	58.7	68.7	81.4
100°	308.6	193.8	143.9	117.6	98.8	83.7	75.2	72.4	75.2	83.7	98.8
102.5°	309.3	207.4	161.3	134.9	115.4	100.3	91.8	89.7	91.8	100.3	115.4
105°	314.1	230.5	186.2	159.9	139.2	125.1	118.6	114.8	118.6	125.1	139.2
107.5°	327.2	254.2	211.3	184.7	164.3	151.3	144.9	141.9	144.9	151.3	164.3
110°	337.7	269.9	228.6	201.3	181.5	169.3	163.7	159.9	163.7	169.3	181.5



TEST NUMBER: P331314-830

CATALOG NUMBER: S122DIP-S485D925U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	349.0	285.0	245.2	217.1	198.1	186.6	180.2	176.4	180.2	186.6	198.1
115°	365.9	308.6	268.1	242.7	223.9	212.6	207.0	202.3	207.0	212.6	223.9
117.5°	384.0	330.2	292.8	266.4	248.4	238.4	232.7	228.9	232.7	238.4	248.4
120°	396.1	345.3	308.6	282.2	263.3	255.0	249.3	245.5	249.3	255.0	263.3
122.5°	406.5	359.5	325.1	298.0	279.2	269.9	264.3	261.4	264.3	269.9	279.2
125°	423.3	381.0	347.1	320.7	302.0	290.7	285.0	282.2	285.0	290.7	302.0
127.5°	438.9	401.0	368.0	340.9	322.8	310.4	302.6	298.8	302.6	310.4	322.8
130°	448.7	412.9	380.0	353.7	334.9	321.7	312.3	308.6	312.3	321.7	334.9
132.5°	458.5	423.5	392.1	365.7	346.2	332.2	322.1	317.5	322.1	332.2	346.2
135°	471.3	438.4	408.2	381.9	360.2	346.2	334.9	331.1	334.9	346.2	360.2
137.5°	481.1	450.4	420.7	396.2	374.8	359.7	348.5	343.9	348.5	359.7	374.8
140°	486.4	457.1	429.0	404.5	383.8	368.7	357.5	353.7	357.5	368.7	383.8
142.5°	490.9	462.4	435.0	412.0	392.1	377.0	366.5	363.4	366.5	377.0	392.1
145°	496.7	470.3	445.0	424.2	405.5	391.3	381.9	378.1	381.9	391.3	405.5
147.5°	499.9	476.7	452.9	434.4	418.8	405.8	396.8	394.0	396.8	405.8	418.8
150°	501.3	479.8	458.1	441.2	427.1	414.8	407.3	404.5	407.3	414.8	427.1
152.5°	502.1	482.8	463.4	448.0	434.6	423.9	416.3	415.0	416.3	423.9	434.6
155°	503.2	487.3	471.3	457.1	446.9	436.5	430.8	429.9	430.8	436.5	446.9
157.5°	503.2	490.5	476.9	465.1	456.8	447.8	443.3	442.3	443.3	447.8	456.8
160°	503.2	492.0	480.7	470.3	462.8	455.2	451.6	450.6	451.6	455.2	462.8
162.5°	502.5	492.8	483.0	474.9	468.1	462.0	458.3	458.8	458.3	462.0	468.1
165°	500.5	493.9	485.4	479.8	475.0	469.4	467.5	468.4	467.5	469.4	475.0
167.5°	499.2	493.7	487.5	483.9	480.5	476.9	475.2	476.4	475.2	476.9	480.5
170°	497.7	492.9	488.2	485.4	483.5	480.7	479.8	481.6	479.8	480.7	483.5
172.5°	495.4	492.2	489.0	486.9	485.8	483.0	483.5	484.7	483.5	483.0	485.8
175°	492.9	491.1	489.2	488.2	488.2	486.4	487.3	488.2	487.3	486.4	488.2
177.5°	491.4	489.9	489.2	489.2	489.2	487.7	488.4	489.9	488.4	487.7	489.2
180°	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2



TEST NUMBER: P331314-830

CATALOG NUMBER: S122DIP-S485D925U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9
2.5°	903.8	902.1	896.2	893.1	888.1	883.3	880.1	881.6	882.7	882.1	881.3
5°	877.9	871.2	861.0	852.2	845.8	834.2	829.3	826.9	824.7	822.3	819.8
7.5°	847.1	836.5	821.9	809.4	797.5	783.1	774.9	769.9	764.8	759.2	754.3
10°	825.1	810.3	794.8	777.2	763.2	750.1	738.5	730.8	723.7	717.0	712.1
12.5°	802.0	784.9	765.8	741.8	726.2	707.6	705.9	692.2	681.2	677.0	671.3
15°	765.3	741.3	717.0	688.5	676.2	659.3	648.8	638.2	628.7	622.0	620.2
17.5°	723.5	692.5	668.4	647.9	627.7	610.4	600.7	592.2	584.4	575.4	574.3
20°	691.6	665.0	638.6	620.6	599.8	582.2	570.2	561.8	555.1	549.8	545.3
22.5°	661.6	632.3	608.1	588.4	568.0	553.7	544.3	536.2	530.7	524.8	520.5
25°	613.2	590.3	563.9	541.8	524.8	515.7	507.9	500.9	497.4	493.5	488.6
27.5°	570.9	545.4	520.8	503.6	488.7	480.6	475.1	470.3	467.0	464.8	461.9
30°	541.0	515.3	496.0	479.1	466.7	458.6	455.2	452.3	448.5	447.0	445.6
32.5°	512.3	489.2	472.6	458.0	446.2	440.9	437.7	435.2	432.2	430.7	427.9
35°	471.6	452.3	436.1	428.0	418.5	414.0	411.5	407.9	405.2	403.8	403.4
37.5°	433.5	416.6	406.0	395.6	391.5	388.7	385.4	383.0	382.1	381.9	381.5
40°	408.7	394.9	385.4	377.0	375.2	371.0	368.2	366.1	366.1	366.5	366.1
42.5°	386.2	373.8	365.4	358.2	356.1	353.5	350.7	350.6	351.2	352.3	351.2
45°	352.0	343.2	337.2	333.7	329.8	327.3	327.0	328.1	328.4	328.8	329.8
47.5°	320.6	314.7	309.3	305.5	303.8	303.3	302.9	304.7	306.4	307.1	308.7
50°	302.0	295.3	290.8	288.3	286.9	286.2	286.9	289.0	290.4	292.2	293.2
52.5°	281.2	276.4	273.3	271.4	270.8	271.3	271.4	273.8	276.1	276.6	277.2
55°	252.4	248.8	248.2	245.0	246.4	246.0	247.8	249.2	251.3	253.4	253.8
57.5°	223.7	220.8	219.0	219.2	219.6	221.2	222.6	225.2	227.4	229.6	229.9
60°	204.5	203.1	202.1	202.1	202.7	204.9	206.6	209.1	210.5	211.9	212.9
62.5°	187.1	185.7	184.5	185.1	187.0	188.2	190.3	191.6	193.0	194.4	194.9
65°	159.5	158.7	159.9	160.5	160.9	162.6	165.1	166.2	167.6	168.2	170.7
67.5°	134.0	134.2	134.0	135.1	137.0	137.5	139.8	142.3	142.6	143.9	145.5
70°	116.9	117.5	118.3	118.9	120.7	121.4	123.2	124.2	125.6	126.7	127.8
72.5°	101.1	101.2	102.0	101.8	103.3	104.8	106.3	107.4	108.8	110.1	111.1
75°	77.8	77.8	78.5	78.9	80.6	82.4	82.0	82.8	84.2	85.6	86.2
77.5°	56.8	56.1	56.8	57.1	57.7	59.2	59.5	60.5	62.1	61.6	62.4
80°	43.3	42.2	43.3	43.6	43.6	45.4	45.4	46.1	47.1	46.1	47.1
82.5°	30.9	30.4	31.2	31.3	31.9	31.9	32.4	32.6	33.6	33.2	33.6
85°	15.5	15.2	15.5	15.2	15.5	15.8	15.8	15.5	15.5	16.2	15.2
87.5°	7.1	7.4	8.0	9.3	10.2	10.1	9.6	9.4	9.0	8.9	9.0
90°	11.3	14.1	18.9	25.4	31.0	32.0	31.0	30.1	28.2	30.1	31.0
92.5°	33.8	42.7	64.0	93.9	120.6	122.2	103.3	82.0	70.4	62.5	56.6
95°	69.7	92.2	135.4	217.3	326.4	368.7	322.6	246.5	189.1	149.6	128.8
97.5°	98.8	124.3	178.7	292.8	474.1	629.5	660.3	575.1	470.5	368.7	300.9
100°	117.6	143.9	193.8	308.6	511.7	743.1	878.6	858.8	742.2	613.3	499.5
102.5°	134.9	161.3	207.4	309.3	497.5	746.9	959.9	1044.7	1018.4	924.2	803.5
105°	159.9	186.2	230.5	314.1	469.4	697.0	947.3	1142.9	1249.2	1261.5	1230.4
107.5°	184.7	211.3	254.2	327.2	455.4	643.7	864.7	1072.2	1232.3	1330.1	1375.6
110°	201.3	228.6	269.9	337.7	452.5	618.0	812.8	1011.3	1179.6	1300.0	1377.1



TEST NUMBER: P331314-830

CATALOG NUMBER: S122DIP-S485D925U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	217.1	245.2	285.0	349.0	453.2	601.4	776.7	955.5	1117.2	1245.9	1334.3
115°	242.7	268.1	308.6	365.9	457.1	583.2	731.9	887.0	1031.9	1155.2	1252.1
117.5°	266.4	292.8	330.2	384.0	463.9	574.4	703.6	835.5	962.7	1074.4	1165.4
120°	282.2	308.6	345.3	396.1	468.4	569.1	688.6	809.9	926.6	1026.2	1111.9
122.5°	298.0	325.1	359.5	406.5	473.7	566.1	675.8	789.6	896.5	990.9	1068.3
125°	320.7	347.1	381.0	423.3	481.6	560.6	657.5	760.1	857.0	939.7	1010.3
127.5°	340.9	368.0	401.0	438.9	489.7	557.4	640.6	730.9	818.6	896.6	961.8
130°	353.7	380.0	412.9	448.7	495.8	555.9	629.3	712.1	793.0	867.3	929.4
132.5°	365.7	392.1	423.5	458.5	501.7	555.2	620.3	694.0	768.9	837.2	895.5
135°	381.9	408.2	438.4	471.3	508.9	554.0	607.7	668.8	730.9	793.0	845.6
137.5°	396.2	420.7	450.4	481.1	515.3	553.8	598.8	648.7	700.6	749.9	795.8
140°	404.5	429.0	457.1	486.4	518.3	553.1	593.6	635.9	681.1	724.3	765.7
142.5°	412.0	435.0	462.4	490.9	520.6	553.1	588.3	625.4	663.7	701.0	735.7
145°	424.2	445.0	470.3	496.7	523.0	551.2	581.4	610.5	641.6	670.7	698.0
147.5°	434.4	452.9	476.7	499.9	523.8	547.9	574.2	599.0	623.5	646.2	666.2
150°	441.2	458.1	479.8	501.3	523.0	545.6	568.2	590.8	611.4	631.2	648.1
152.5°	448.0	463.4	482.8	502.1	521.5	541.9	562.9	582.5	601.6	618.4	633.1
155°	457.1	471.3	487.3	503.2	519.2	535.3	553.1	571.0	586.1	600.1	610.5
157.5°	465.1	476.9	490.5	503.2	514.9	528.5	543.9	557.6	570.2	582.1	590.2
160°	470.3	480.7	492.0	503.2	512.6	524.0	537.2	549.3	559.7	570.0	576.6
162.5°	474.9	483.0	492.8	502.5	510.4	520.2	531.1	541.1	549.9	558.7	563.8
165°	479.8	485.4	493.9	500.5	506.1	512.6	521.1	528.7	535.3	541.9	545.6
167.5°	483.9	487.5	493.7	499.2	501.7	506.1	511.3	516.8	521.9	526.4	529.8
170°	485.4	488.2	492.9	497.7	499.5	502.3	506.1	510.8	513.6	517.4	519.2
172.5°	486.9	489.0	492.2	495.4	496.5	497.9	500.9	504.0	506.1	509.1	510.2
175°	488.2	489.2	491.1	492.9	492.0	492.9	493.9	496.7	497.7	498.6	499.5
177.5°	489.2	489.2	489.9	491.4	489.9	489.2	489.9	491.4	491.4	492.2	492.2
180°	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2



TEST NUMBER: P331314-830

CATALOG NUMBER: S122DIP-S485D925U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9
2.5°	878.4	877.9	877.9	875.3	877.9	877.9	878.4	881.3	882.1	882.7	881.6
5°	814.9	813.8	812.1	813.8	812.1	813.8	814.9	819.8	822.3	824.7	826.9
7.5°	752.1	747.8	747.2	743.0	747.2	747.8	752.1	754.3	759.2	764.8	769.9
10°	706.2	703.3	702.9	696.3	702.9	703.3	706.2	712.1	717.0	723.7	730.8
12.5°	671.2	664.4	665.8	661.9	665.8	664.4	671.2	671.3	677.0	681.2	692.2
15°	610.7	610.7	609.4	603.3	609.4	610.7	610.7	620.2	622.0	628.7	638.2
17.5°	567.3	566.6	563.2	564.9	563.2	566.6	567.3	574.3	575.4	584.4	592.2
20°	541.4	539.2	535.1	535.1	535.1	539.2	541.4	545.3	549.8	555.1	561.8
22.5°	516.9	516.7	512.3	513.7	512.3	516.7	516.9	520.5	524.8	530.7	536.2
25°	488.2	485.4	483.3	484.4	483.3	485.4	488.2	488.6	493.5	497.4	500.9
27.5°	461.1	459.5	459.4	456.5	459.4	459.5	461.1	461.9	464.8	467.0	470.3
30°	445.3	441.8	442.4	440.7	442.4	441.8	445.3	445.6	447.0	448.5	452.3
32.5°	427.3	426.0	425.3	423.8	425.3	426.0	427.3	427.9	430.7	432.2	435.2
35°	402.7	403.0	401.2	402.0	401.2	403.0	402.7	403.4	403.8	405.2	407.9
37.5°	381.3	382.4	381.5	381.7	381.5	382.4	381.3	381.5	381.9	382.1	383.0
40°	367.1	367.1	367.1	368.2	367.1	367.1	367.1	366.1	366.5	366.1	366.1
42.5°	353.6	353.1	352.5	352.4	352.5	353.1	353.6	351.2	352.3	351.2	350.6
45°	330.5	331.6	332.0	330.2	332.0	331.6	330.5	329.8	328.8	328.4	328.1
47.5°	309.6	309.7	309.6	311.1	309.6	309.7	309.6	308.7	307.1	306.4	304.7
50°	295.0	294.3	295.0	294.3	295.0	294.3	295.0	293.2	292.2	290.4	289.0
52.5°	279.5	279.7	279.2	279.1	279.2	279.7	279.5	277.2	276.6	276.1	273.8
55°	255.2	255.9	255.5	255.5	255.5	255.9	255.2	253.8	253.4	251.3	249.2
57.5°	230.1	230.7	231.2	229.6	231.2	230.7	230.1	229.9	229.6	227.4	225.2
60°	212.6	214.3	214.1	213.3	214.1	214.3	212.6	212.9	211.9	210.5	209.1
62.5°	196.5	197.2	197.1	197.0	197.1	197.2	196.5	194.9	194.4	193.0	191.6
65°	171.7	172.5	171.4	172.5	171.4	172.5	171.7	170.7	168.2	167.6	166.2
67.5°	145.1	145.3	146.1	146.6	146.1	145.3	145.1	145.5	143.9	142.6	142.3
70°	128.5	128.1	129.2	130.3	129.2	128.1	128.5	127.8	126.7	125.6	124.2
72.5°	111.0	111.8	111.4	112.3	111.4	111.8	111.0	111.1	110.1	108.8	107.4
75°	85.6	86.6	86.2	87.3	86.2	86.6	85.6	86.2	85.6	84.2	82.8
77.5°	61.8	61.9	61.8	62.4	61.8	61.9	61.8	62.4	61.6	62.1	60.5
80°	47.1	46.5	45.7	47.1	45.7	46.5	47.1	47.1	46.1	47.1	46.1
82.5°	32.8	33.3	32.5	32.5	32.5	33.3	32.8	33.6	33.2	33.6	32.6
85°	15.2	14.8	14.0	14.0	14.0	14.8	15.2	15.2	16.2	15.5	15.5
87.5°	9.0	8.8	8.8	8.5	8.8	8.8	9.0	9.0	8.9	9.0	9.4
90°	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	30.1	28.2	30.1
92.5°	55.9	52.9	53.6	52.1	53.6	52.9	55.9	56.6	62.5	70.4	82.0
95°	116.7	109.1	106.3	107.3	106.3	109.1	116.7	128.8	149.6	189.1	246.5
97.5°	255.9	232.7	219.0	211.1	219.0	232.7	255.9	300.9	368.7	470.5	575.1
100°	421.4	381.0	353.7	336.8	353.7	381.0	421.4	499.5	613.3	742.2	858.8
102.5°	718.7	649.6	615.6	592.7	615.6	649.6	718.7	803.5	924.2	1018.4	1044.7
105°	1172.1	1113.8	1073.3	1060.2	1073.3	1113.8	1172.1	1230.4	1261.5	1249.2	1142.9
107.5°	1383.0	1379.8	1371.7	1354.2	1371.7	1379.8	1383.0	1375.6	1330.1	1232.3	1072.2
110°	1417.6	1435.5	1444.0	1443.0	1444.0	1435.5	1417.6	1377.1	1300.0	1179.6	1011.3



TEST NUMBER: P331314-830

CATALOG NUMBER: S122DIP-S485D925U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1390.5	1420.4	1436.4	1441.5	1436.4	1420.4	1390.5	1334.3	1245.9	1117.2	955.5
115°	1318.8	1362.1	1386.6	1395.1	1386.6	1362.1	1318.8	1252.1	1155.2	1031.9	887.0
117.5°	1233.4	1279.1	1305.0	1312.0	1305.0	1279.1	1233.4	1165.4	1074.4	962.7	835.5
120°	1177.7	1221.9	1249.2	1258.7	1249.2	1221.9	1177.7	1111.9	1026.2	926.6	809.9
122.5°	1127.3	1170.7	1195.0	1203.0	1195.0	1170.7	1127.3	1068.3	990.9	896.5	789.6
125°	1064.9	1100.6	1124.1	1131.6	1124.1	1100.6	1064.9	1010.3	939.7	857.0	760.1
127.5°	1009.4	1042.8	1063.2	1069.2	1063.2	1042.8	1009.4	961.8	896.6	818.6	730.9
130°	975.5	1007.5	1026.2	1033.8	1026.2	1007.5	975.5	929.4	867.3	793.0	712.1
132.5°	940.8	972.9	990.1	996.9	990.1	972.9	940.8	895.5	837.2	768.9	694.0
135°	886.1	917.2	934.1	937.8	934.1	917.2	886.1	845.6	793.0	730.9	668.8
137.5°	832.7	859.4	874.3	880.0	874.3	859.4	832.7	795.8	749.9	700.6	648.7
140°	795.8	820.3	834.4	840.0	834.4	820.3	795.8	765.7	724.3	681.1	635.9
142.5°	764.2	786.5	799.0	800.1	799.0	786.5	764.2	735.7	701.0	663.7	625.4
145°	720.6	736.6	745.9	748.8	745.9	736.6	720.6	698.0	670.7	641.6	610.5
147.5°	684.9	697.6	704.0	705.7	704.0	697.6	684.9	666.2	646.2	623.5	599.0
150°	662.2	673.5	679.2	680.1	679.2	673.5	662.2	648.1	631.2	611.4	590.8
152.5°	644.1	653.9	658.1	658.3	658.1	653.9	644.1	633.1	618.4	601.6	582.5
155°	620.9	627.5	631.2	629.3	631.2	627.5	620.9	610.5	600.1	586.1	571.0
157.5°	597.5	602.9	604.6	604.6	604.6	602.9	597.5	590.2	582.1	570.2	557.6
160°	583.2	588.0	588.9	588.9	588.9	588.0	583.2	576.6	570.0	559.7	549.3
162.5°	570.4	573.6	574.6	573.8	574.6	573.6	570.4	563.8	558.7	549.9	541.1
165°	549.3	553.1	553.1	552.1	553.1	553.1	549.3	545.6	541.9	535.3	528.7
167.5°	531.5	533.6	533.4	532.3	533.4	533.6	531.5	529.8	526.4	521.9	516.8
170°	520.2	523.0	522.1	520.2	522.1	523.0	520.2	519.2	517.4	513.6	510.8
172.5°	511.1	512.5	511.5	510.4	511.5	512.5	511.1	510.2	509.1	506.1	504.0
175°	499.5	500.5	499.5	497.7	499.5	500.5	499.5	499.5	498.6	497.7	496.7
177.5°	492.2	492.2	491.4	489.9	491.4	492.2	492.2	492.2	492.2	491.4	491.4
180°	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2



TEST NUMBER: P331314-830

CATALOG NUMBER: S122DIP-S485D925U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9
2.5°	880.1	883.3	888.1	893.1	896.2	902.1	903.8	906.6	909.2	915.0	921.2
5°	829.3	834.2	845.8	852.2	861.0	871.2	877.9	885.0	892.7	906.1	918.4
7.5°	774.9	783.1	797.5	809.4	821.9	836.5	847.1	861.0	872.5	891.4	909.5
10°	738.5	750.1	763.2	777.2	794.8	810.3	825.1	842.7	856.8	879.3	900.4
12.5°	705.9	707.6	726.2	741.8	765.8	784.9	802.0	824.6	838.5	865.3	887.5
15°	648.8	659.3	676.2	688.5	717.0	741.3	765.3	788.8	804.6	837.7	867.0
17.5°	600.7	610.4	627.7	647.9	668.4	692.5	723.5	748.4	769.9	807.7	842.3
20°	570.2	582.2	599.8	620.6	638.6	665.0	691.6	720.2	743.4	786.0	826.5
22.5°	544.3	553.7	568.0	588.4	608.1	632.3	661.6	692.6	717.0	762.9	804.0
25°	507.9	515.7	524.8	541.8	563.9	590.3	613.2	647.3	682.9	725.9	775.4
27.5°	475.1	480.6	488.7	503.6	520.8	545.4	570.9	603.2	639.0	685.6	738.0
30°	455.2	458.6	466.7	479.1	496.0	515.3	541.0	572.0	608.6	655.8	707.8
32.5°	437.7	440.9	446.2	458.0	472.6	489.2	512.3	543.3	578.2	624.5	682.2
35°	411.5	414.0	418.5	428.0	436.1	452.3	471.6	499.8	532.5	576.9	636.8
37.5°	385.4	388.7	391.5	395.6	406.0	416.6	433.5	457.2	489.4	534.1	591.2
40°	368.2	371.0	375.2	377.0	385.4	394.9	408.7	430.5	462.9	503.7	559.3
42.5°	350.7	353.5	356.1	358.2	365.4	373.8	386.2	404.9	433.6	473.3	528.4
45°	327.0	327.3	329.8	333.7	337.2	343.2	352.0	368.2	390.4	427.7	477.7
47.5°	302.9	303.3	303.8	305.5	309.3	314.7	320.6	333.8	353.6	383.4	432.1
50°	286.9	286.2	286.9	288.3	290.8	295.3	302.0	311.5	327.7	355.5	400.2
52.5°	271.4	271.3	270.8	271.4	273.3	276.4	281.2	289.3	303.8	329.3	368.7
55°	247.8	246.0	246.4	245.0	248.2	248.8	252.4	259.1	271.7	289.4	326.3
57.5°	222.6	221.2	219.6	219.2	219.0	220.8	223.7	228.9	238.7	254.1	284.1
60°	206.6	204.9	202.7	202.1	202.1	203.1	204.5	208.4	217.5	231.3	255.9
62.5°	190.3	188.2	187.0	185.1	184.5	185.7	187.1	189.8	196.4	209.3	230.5
65°	165.1	162.6	160.9	160.5	159.9	158.7	159.5	162.3	167.6	177.8	194.6
67.5°	139.8	137.5	137.0	135.1	134.0	134.2	134.0	136.5	139.6	148.4	161.0
70°	123.2	121.4	120.7	118.9	118.3	117.5	116.9	118.9	122.2	129.5	140.4
72.5°	106.3	104.8	103.3	101.8	102.0	101.2	101.1	102.4	105.0	111.8	120.2
75°	82.0	82.4	80.6	78.9	78.5	77.8	77.8	78.9	79.9	85.2	91.9
77.5°	59.5	59.2	57.7	57.1	56.8	56.1	56.8	57.5	58.1	61.6	66.5
80°	45.4	45.4	43.6	43.6	43.3	42.2	43.3	42.6	44.0	47.5	51.1
82.5°	32.4	31.9	31.9	31.3	31.2	30.4	30.9	31.6	32.1	34.6	36.7
85°	15.8	15.8	15.5	15.2	15.5	15.2	15.5	15.8	16.2	17.2	19.0
87.5°	9.6	10.1	10.2	9.3	8.0	7.4	7.1	7.0	7.2	6.7	6.4
90°	31.0	32.0	31.0	25.4	18.9	14.1	11.3	9.4	7.5	3.8	0.9
92.5°	103.3	122.2	120.6	93.9	64.0	42.7	33.8	27.4	23.4	16.6	11.5
95°	322.6	368.7	326.4	217.3	135.4	92.2	69.7	54.6	46.1	36.7	32.9
97.5°	660.3	629.5	474.1	292.8	178.7	124.3	98.8	81.4	68.7	58.7	53.6
100°	878.6	743.1	511.7	308.6	193.8	143.9	117.6	98.8	83.7	75.2	72.4
102.5°	959.9	746.9	497.5	309.3	207.4	161.3	134.9	115.4	100.3	91.8	89.7
105°	947.3	697.0	469.4	314.1	230.5	186.2	159.9	139.2	125.1	118.6	114.8
107.5°	864.7	643.7	455.4	327.2	254.2	211.3	184.7	164.3	151.3	144.9	141.9
110°	812.8	618.0	452.5	337.7	269.9	228.6	201.3	181.5	169.3	163.7	159.9



TEST NUMBER: P331314-830

CATALOG NUMBER: S122DIP-S485D925U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	776.7	601.4	453.2	349.0	285.0	245.2	217.1	198.1	186.6	180.2	176.4
115°	731.9	583.2	457.1	365.9	308.6	268.1	242.7	223.9	212.6	207.0	202.3
117.5°	703.6	574.4	463.9	384.0	330.2	292.8	266.4	248.4	238.4	232.7	228.9
120°	688.6	569.1	468.4	396.1	345.3	308.6	282.2	263.3	255.0	249.3	245.5
122.5°	675.8	566.1	473.7	406.5	359.5	325.1	298.0	279.2	269.9	264.3	261.4
125°	657.5	560.6	481.6	423.3	381.0	347.1	320.7	302.0	290.7	285.0	282.2
127.5°	640.6	557.4	489.7	438.9	401.0	368.0	340.9	322.8	310.4	302.6	298.8
130°	629.3	555.9	495.8	448.7	412.9	380.0	353.7	334.9	321.7	312.3	308.6
132.5°	620.3	555.2	501.7	458.5	423.5	392.1	365.7	346.2	332.2	322.1	317.5
135°	607.7	554.0	508.9	471.3	438.4	408.2	381.9	360.2	346.2	334.9	331.1
137.5°	598.8	553.8	515.3	481.1	450.4	420.7	396.2	374.8	359.7	348.5	343.9
140°	593.6	553.1	518.3	486.4	457.1	429.0	404.5	383.8	368.7	357.5	353.7
142.5°	588.3	553.1	520.6	490.9	462.4	435.0	412.0	392.1	377.0	366.5	363.4
145°	581.4	551.2	523.0	496.7	470.3	445.0	424.2	405.5	391.3	381.9	378.1
147.5°	574.2	547.9	523.8	499.9	476.7	452.9	434.4	418.8	405.8	396.8	394.0
150°	568.2	545.6	523.0	501.3	479.8	458.1	441.2	427.1	414.8	407.3	404.5
152.5°	562.9	541.9	521.5	502.1	482.8	463.4	448.0	434.6	423.9	416.3	415.0
155°	553.1	535.3	519.2	503.2	487.3	471.3	457.1	446.9	436.5	430.8	429.9
157.5°	543.9	528.5	514.9	503.2	490.5	476.9	465.1	456.8	447.8	443.3	442.3
160°	537.2	524.0	512.6	503.2	492.0	480.7	470.3	462.8	455.2	451.6	450.6
162.5°	531.1	520.2	510.4	502.5	492.8	483.0	474.9	468.1	462.0	458.3	458.8
165°	521.1	512.6	506.1	500.5	493.9	485.4	479.8	475.0	469.4	467.5	468.4
167.5°	511.3	506.1	501.7	499.2	493.7	487.5	483.9	480.5	476.9	475.2	476.4
170°	506.1	502.3	499.5	497.7	492.9	488.2	485.4	483.5	480.7	479.8	481.6
172.5°	500.9	497.9	496.5	495.4	492.2	489.0	486.9	485.8	483.0	483.5	484.7
175°	493.9	492.9	492.0	492.9	491.1	489.2	488.2	488.2	486.4	487.3	488.2
177.5°	489.9	489.2	489.9	491.4	489.9	489.2	489.2	489.2	487.7	488.4	489.9
180°	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2



TEST NUMBER: P331314-830

CATALOG NUMBER: S122DIP-S485D925U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9	915.9
2.5°	920.7	922.1	926.6	931.1	936.1	937.5	939.8	937.8	937.3	942.6	946.6
5°	923.3	929.6	942.0	953.2	962.7	969.4	976.5	979.3	984.6	991.9	1001.1
7.5°	920.3	932.6	952.1	968.5	986.3	999.2	1009.3	1017.9	1028.2	1042.3	1057.5
10°	917.0	933.5	957.1	977.1	999.0	1015.5	1029.3	1042.6	1058.1	1077.5	1097.5
12.5°	910.8	930.4	959.9	983.6	1011.6	1027.9	1046.4	1075.3	1091.9	1118.9	1147.1
15°	898.3	920.1	961.3	990.5	1022.2	1053.2	1087.3	1114.7	1142.3	1158.1	1197.9
17.5°	879.8	911.8	957.4	991.6	1031.8	1080.5	1118.9	1150.1	1181.8	1207.4	1227.4
20°	864.9	899.8	951.8	992.7	1040.5	1093.0	1137.0	1168.7	1196.1	1217.6	1229.9
22.5°	846.0	889.9	940.6	988.4	1049.5	1101.5	1147.6	1172.6	1195.5	1206.0	1210.7
25°	816.2	869.1	926.4	984.9	1053.9	1108.8	1151.0	1166.2	1172.9	1162.6	1145.8
27.5°	784.3	843.1	910.2	978.3	1051.2	1104.0	1134.3	1131.9	1120.6	1087.5	1061.1
30°	760.3	825.1	897.2	971.5	1044.7	1096.1	1113.7	1096.1	1070.4	1033.5	995.8
32.5°	735.3	802.3	883.4	962.0	1032.9	1078.1	1081.9	1051.6	1011.8	969.9	922.8
35°	697.3	769.9	857.4	940.6	1007.8	1036.3	1019.4	965.9	918.7	861.4	797.3
37.5°	654.4	734.5	822.4	909.2	970.2	977.6	935.7	879.3	812.8	745.4	670.0
40°	622.4	707.2	797.7	885.2	939.1	931.4	877.9	816.0	736.7	654.4	584.3
42.5°	593.6	678.4	770.6	856.6	899.8	878.4	816.0	739.9	654.8	577.2	513.1
45°	543.8	631.1	725.5	808.5	833.2	794.8	712.1	627.6	543.8	479.1	428.4
47.5°	495.6	581.8	675.2	748.3	757.1	705.4	615.0	528.1	456.1	403.3	367.6
50°	460.1	546.7	639.2	704.4	701.5	639.2	546.3	463.5	403.4	360.8	336.9
52.5°	428.2	510.0	599.0	658.2	643.3	575.3	486.6	413.2	363.7	330.4	308.7
55°	378.7	454.4	538.9	586.4	559.0	483.6	408.7	349.5	312.9	287.9	271.1
57.5°	329.6	400.6	472.9	502.2	471.8	402.3	339.8	296.9	269.4	250.8	239.9
60°	299.2	361.2	425.6	450.9	414.6	352.7	303.4	265.0	242.9	227.7	217.9
62.5°	268.8	324.2	385.0	398.8	365.6	313.3	269.7	237.7	219.5	206.0	196.8
65°	227.4	272.8	319.0	328.1	297.5	256.9	222.4	201.7	185.5	175.7	168.2
67.5°	186.5	222.9	255.6	263.0	236.2	208.1	183.1	165.1	154.1	145.9	139.7
70°	162.3	191.1	217.9	223.9	202.4	177.4	158.4	143.9	134.1	127.1	121.1
72.5°	136.7	160.7	182.9	187.0	169.5	150.3	134.8	123.4	114.7	110.2	104.4
75°	104.5	118.7	135.9	137.0	125.4	113.7	101.7	94.3	89.7	84.2	81.3
77.5°	73.8	84.8	94.7	96.6	89.7	81.8	75.1	69.3	65.4	62.8	60.2
80°	56.4	65.1	69.4	71.8	66.9	61.3	57.4	53.5	51.1	49.3	47.5
82.5°	40.2	45.7	49.7	51.6	48.8	45.5	41.6	39.4	37.5	36.0	35.4
85°	20.5	22.9	25.4	26.0	25.4	23.9	21.9	21.9	20.7	20.5	20.5
87.5°	7.8	9.7	10.1	11.3	11.3	12.3	13.6	14.4	14.3	13.9	13.4
90°	3.8	7.5	9.4	11.3	14.1	18.9	25.4	31.0	32.0	31.0	30.1
92.5°	16.6	23.4	27.4	33.8	42.7	64.0	93.9	120.6	122.2	103.3	82.0
95°	36.7	46.1	54.6	69.7	92.2	135.4	217.3	326.4	368.7	322.6	246.5
97.5°	58.7	68.7	81.4	98.8	124.3	178.7	292.8	474.1	629.5	660.3	575.1
100°	75.2	83.7	98.8	117.6	143.9	193.8	308.6	511.7	743.1	878.6	858.8
102.5°	91.8	100.3	115.4	134.9	161.3	207.4	309.3	497.5	746.9	959.9	1044.7
105°	118.6	125.1	139.2	159.9	186.2	230.5	314.1	469.4	697.0	947.3	1142.9
107.5°	144.9	151.3	164.3	184.7	211.3	254.2	327.2	455.4	643.7	864.7	1072.2
110°	163.7	169.3	181.5	201.3	228.6	269.9	337.7	452.5	618.0	812.8	1011.3



TEST NUMBER: P331314-830

CATALOG NUMBER: S122DIP-S485D925U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	180.2	186.6	198.1	217.1	245.2	285.0	349.0	453.2	601.4	776.7	955.5
115°	207.0	212.6	223.9	242.7	268.1	308.6	365.9	457.1	583.2	731.9	887.0
117.5°	232.7	238.4	248.4	266.4	292.8	330.2	384.0	463.9	574.4	703.6	835.5
120°	249.3	255.0	263.3	282.2	308.6	345.3	396.1	468.4	569.1	688.6	809.9
122.5°	264.3	269.9	279.2	298.0	325.1	359.5	406.5	473.7	566.1	675.8	789.6
125°	285.0	290.7	302.0	320.7	347.1	381.0	423.3	481.6	560.6	657.5	760.1
127.5°	302.6	310.4	322.8	340.9	368.0	401.0	438.9	489.7	557.4	640.6	730.9
130°	312.3	321.7	334.9	353.7	380.0	412.9	448.7	495.8	555.9	629.3	712.1
132.5°	322.1	332.2	346.2	365.7	392.1	423.5	458.5	501.7	555.2	620.3	694.0
135°	334.9	346.2	360.2	381.9	408.2	438.4	471.3	508.9	554.0	607.7	668.8
137.5°	348.5	359.7	374.8	396.2	420.7	450.4	481.1	515.3	553.8	598.8	648.7
140°	357.5	368.7	383.8	404.5	429.0	457.1	486.4	518.3	553.1	593.6	635.9
142.5°	366.5	377.0	392.1	412.0	435.0	462.4	490.9	520.6	553.1	588.3	625.4
145°	381.9	391.3	405.5	424.2	445.0	470.3	496.7	523.0	551.2	581.4	610.5
147.5°	396.8	405.8	418.8	434.4	452.9	476.7	499.9	523.8	547.9	574.2	599.0
150°	407.3	414.8	427.1	441.2	458.1	479.8	501.3	523.0	545.6	568.2	590.8
152.5°	416.3	423.9	434.6	448.0	463.4	482.8	502.1	521.5	541.9	562.9	582.5
155°	430.8	436.5	446.9	457.1	471.3	487.3	503.2	519.2	535.3	553.1	571.0
157.5°	443.3	447.8	456.8	465.1	476.9	490.5	503.2	514.9	528.5	543.9	557.6
160°	451.6	455.2	462.8	470.3	480.7	492.0	503.2	512.6	524.0	537.2	549.3
162.5°	458.3	462.0	468.1	474.9	483.0	492.8	502.5	510.4	520.2	531.1	541.1
165°	467.5	469.4	475.0	479.8	485.4	493.9	500.5	506.1	512.6	521.1	528.7
167.5°	475.2	476.9	480.5	483.9	487.5	493.7	499.2	501.7	506.1	511.3	516.8
170°	479.8	480.7	483.5	485.4	488.2	492.9	497.7	499.5	502.3	506.1	510.8
172.5°	483.5	483.0	485.8	486.9	489.0	492.2	495.4	496.5	497.9	500.9	504.0
175°	487.3	486.4	488.2	488.2	489.2	491.1	492.9	492.0	492.9	493.9	496.7
177.5°	488.4	487.7	489.2	489.2	489.2	489.9	491.4	489.9	489.2	489.9	491.4
180°	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2	489.2



TEST NUMBER: P331314-830

CATALOG NUMBER: S122DIP-S485D925U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	915.9	915.9	915.9	915.9	915.9	915.9	915.9
2.5°	950.0	953.9	953.9	954.5	958.9	958.5	958.2
5°	1011.0	1016.9	1017.7	1024.0	1028.2	1026.8	1022.9
7.5°	1068.5	1079.6	1088.1	1092.8	1098.3	1101.7	1100.2
10°	1114.1	1130.3	1140.1	1146.8	1154.9	1160.9	1158.8
12.5°	1155.5	1174.8	1188.3	1199.8	1200.8	1208.5	1203.2
15°	1220.0	1240.5	1242.6	1251.0	1257.7	1257.0	1257.4
17.5°	1241.3	1247.9	1249.2	1249.4	1249.5	1247.1	1241.7
20°	1233.8	1231.3	1225.3	1220.8	1212.7	1211.5	1204.6
22.5°	1197.7	1189.9	1174.9	1165.0	1152.4	1149.1	1147.1
25°	1126.7	1109.5	1085.5	1062.7	1056.3	1044.1	1047.5
27.5°	1029.4	1002.5	976.6	958.0	941.2	922.7	928.0
30°	960.9	930.7	894.1	865.9	848.0	830.4	827.2
32.5°	879.3	834.9	794.1	769.3	741.8	730.7	718.5
35°	738.5	695.2	654.7	619.9	599.8	584.3	570.2
37.5°	611.8	562.0	529.3	501.1	486.6	477.8	479.9
40°	533.3	489.7	465.7	444.2	430.8	424.5	425.9
42.5°	469.7	437.0	417.3	402.6	393.1	389.6	388.7
45°	397.4	379.1	362.9	354.5	349.9	346.0	343.6
47.5°	348.2	333.2	324.0	319.1	315.0	311.1	311.0
50°	318.6	308.7	302.4	297.1	293.9	291.1	293.6
52.5°	296.1	287.0	280.7	276.0	274.8	272.2	272.2
55°	262.6	255.5	251.0	246.8	244.7	243.3	241.5
57.5°	232.1	225.5	221.3	218.6	214.6	213.2	212.6
60°	210.5	205.2	201.0	197.5	195.7	192.9	192.9
62.5°	190.5	185.2	181.3	178.6	175.7	174.6	174.8
65°	161.6	157.3	153.4	150.6	150.0	147.9	148.5
67.5°	135.0	132.1	128.1	126.5	125.2	124.0	123.2
70°	117.3	114.4	112.3	110.2	109.1	109.1	109.1
72.5°	102.3	98.9	97.6	95.0	95.6	94.4	93.3
75°	79.2	77.1	76.1	74.9	73.2	73.2	73.2
77.5°	58.2	57.7	56.4	55.2	54.9	54.5	54.7
80°	45.1	44.7	44.0	44.0	43.3	43.0	42.2
82.5°	34.6	33.7	33.3	33.0	32.9	32.8	32.7
85°	19.7	19.0	19.0	19.3	18.7	18.7	19.0
87.5°	13.3	13.7	13.6	13.6	13.9	13.6	13.6
90°	28.2	30.1	31.0	31.0	31.0	31.0	31.0
92.5°	70.4	62.5	56.6	55.9	52.9	53.6	52.1
95°	189.1	149.6	128.8	116.7	109.1	106.3	107.3
97.5°	470.5	368.7	300.9	255.9	232.7	219.0	211.1
100°	742.2	613.3	499.5	421.4	381.0	353.7	336.8
102.5°	1018.4	924.2	803.5	718.7	649.6	615.6	592.7
105°	1249.2	1261.5	1230.4	1172.1	1113.8	1073.3	1060.2
107.5°	1232.3	1330.1	1375.6	1383.0	1379.8	1371.7	1354.2
110°	1179.6	1300.0	1377.1	1417.6	1435.5	1444.0	1443.0



TEST NUMBER: P331314-830

CATALOG NUMBER: S122DIP-S485D925U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	1117.2	1245.9	1334.3	1390.5	1420.4	1436.4	1441.5
115°	1031.9	1155.2	1252.1	1318.8	1362.1	1386.6	1395.1
117.5°	962.7	1074.4	1165.4	1233.4	1279.1	1305.0	1312.0
120°	926.6	1026.2	1111.9	1177.7	1221.9	1249.2	1258.7
122.5°	896.5	990.9	1068.3	1127.3	1170.7	1195.0	1203.0
125°	857.0	939.7	1010.3	1064.9	1100.6	1124.1	1131.6
127.5°	818.6	896.6	961.8	1009.4	1042.8	1063.2	1069.2
130°	793.0	867.3	929.4	975.5	1007.5	1026.2	1033.8
132.5°	768.9	837.2	895.5	940.8	972.9	990.1	996.9
135°	730.9	793.0	845.6	886.1	917.2	934.1	937.8
137.5°	700.6	749.9	795.8	832.7	859.4	874.3	880.0
140°	681.1	724.3	765.7	795.8	820.3	834.4	840.0
142.5°	663.7	701.0	735.7	764.2	786.5	799.0	800.1
145°	641.6	670.7	698.0	720.6	736.6	745.9	748.8
147.5°	623.5	646.2	666.2	684.9	697.6	704.0	705.7
150°	611.4	631.2	648.1	662.2	673.5	679.2	680.1
152.5°	601.6	618.4	633.1	644.1	653.9	658.1	658.3
155°	586.1	600.1	610.5	620.9	627.5	631.2	629.3
157.5°	570.2	582.1	590.2	597.5	602.9	604.6	604.6
160°	559.7	570.0	576.6	583.2	588.0	588.9	588.9
162.5°	549.9	558.7	563.8	570.4	573.6	574.6	573.8
165°	535.3	541.9	545.6	549.3	553.1	553.1	552.1
167.5°	521.9	526.4	529.8	531.5	533.6	533.4	532.3
170°	513.6	517.4	519.2	520.2	523.0	522.1	520.2
172.5°	506.1	509.1	510.2	511.1	512.5	511.5	510.4
175°	497.7	498.6	499.5	499.5	500.5	499.5	497.7
177.5°	491.4	492.2	492.2	492.2	492.2	491.4	489.9
180°	489.2	489.2	489.2	489.2	489.2	489.2	489.2

(END OF REPORT)