

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: P331296-830

Luminaire Tested: **S122DIP-S485D530U830-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331296-830  
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-S485D530U830-4F0-1E-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: 3968.2 lumens  
Efficiency: N/A  
Efficacy: 121.0 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: General Diffuse

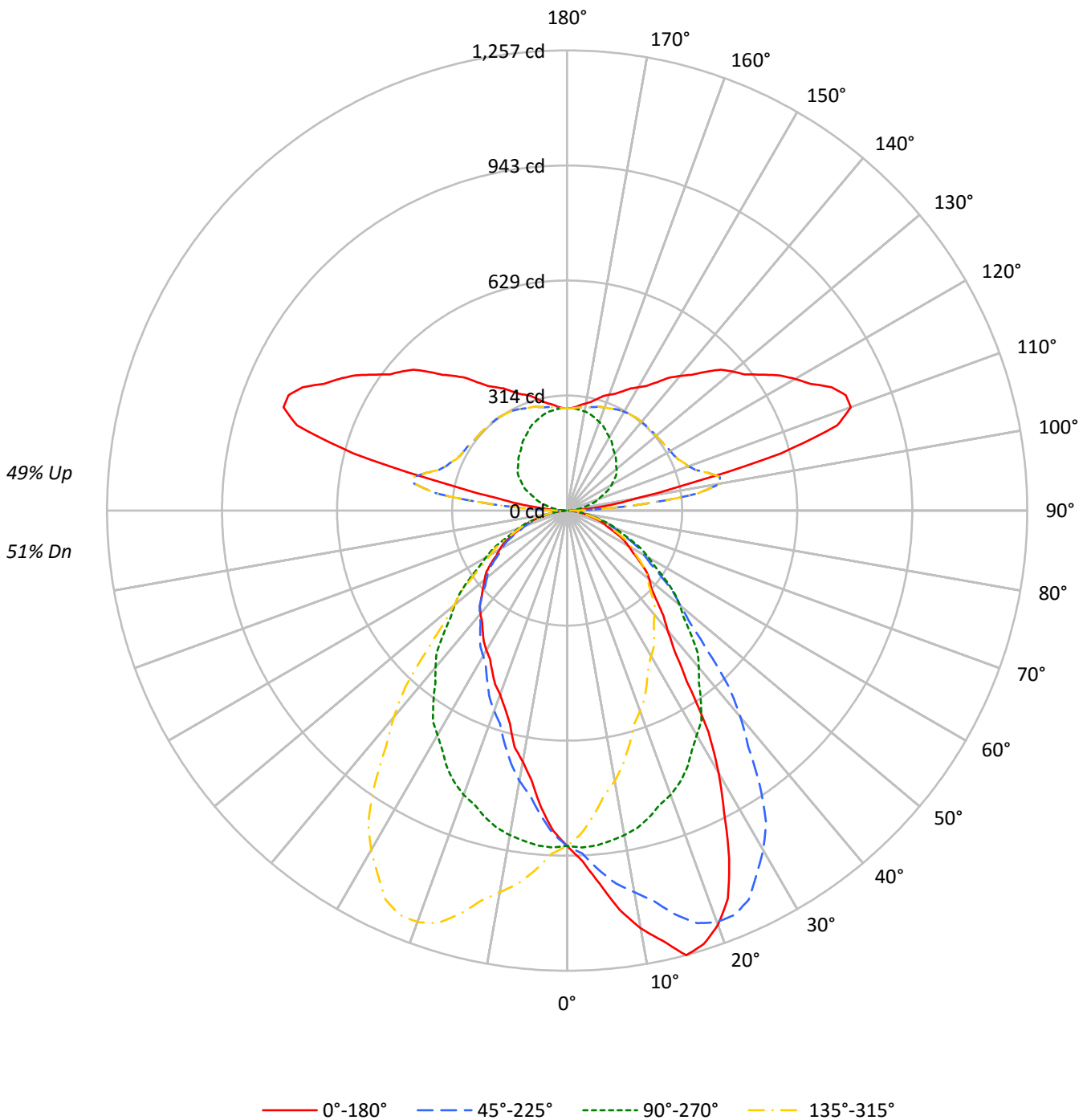
Input Watts (W): 32.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	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



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.2	2.2
10°-20°	253.6	6.4
20°-30°	368.0	9.3
30°-40°	388.4	9.8
40°-50°	343.9	8.7
50°-60°	274.4	6.9
60°-70°	186.5	4.7
70°-80°	95.6	2.4
80°-90°	25.6	0.6
90°-100°	111.8	2.8
100°-110°	379.3	9.6
110°-120°	402.9	10.2
120°-130°	331.7	8.4
130°-140°	266.3	6.7
140°-150°	201.3	5.1
150°-160°	141.4	3.6
160°-170°	83.3	2.1
170°-180°	27.1	0.7
0°-30°	708.8	17.9
0°-40°	1097.2	27.6
0°-60°	1715.5	43.2
0°-90°	2023.2	51.0
90°-120°	893.9	22.5
90°-150°	1693.2	42.7
90°-180°	1945.0	49.0
0°-180°	3968.2	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	21
90°	18	1	18	1	18	10
95°	61	19	61	19	61	80
105°	606	66	606	66	606	586
115°	797	116	797	116	797	781
125°	647	161	647	161	647	584
135°	536	189	536	189	536	416
145°	428	216	428	216	428	272
155°	360	246	360	246	360	168
165°	316	268	316	268	316	90
175°	284	279	284	279	284	28
180°	280	280	280	280	280	



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**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°	10.8	10.8	11.1	10.8	10.8	11.0	10.8	10.7	11.1	11.5	11.7
90°	17.7	17.7	17.7	17.7	17.7	17.2	16.1	17.2	17.7	18.3	17.7
92.5°	29.8	30.6	30.3	32.0	32.3	35.7	40.2	46.8	59.0	69.8	68.9
95°	61.3	60.7	62.4	66.6	73.6	85.5	108.0	140.8	184.4	210.8	186.5
97.5°	120.6	125.2	133.0	146.2	171.9	210.8	268.9	328.7	377.3	359.7	270.9
100°	192.5	202.1	217.7	240.8	285.4	350.4	424.1	490.8	502.0	424.6	292.4
102.5°	338.7	351.8	371.2	410.7	459.1	528.1	581.9	597.0	548.5	426.8	284.3
105°	605.8	613.3	636.4	669.8	703.0	720.9	713.8	653.1	541.3	398.3	268.2
107.5°	773.8	783.8	788.4	790.2	786.1	760.1	704.2	612.7	494.1	367.8	260.2
110°	824.5	825.1	820.3	810.0	786.9	742.8	674.0	577.9	464.4	353.2	258.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	823.7	820.8	811.6	794.6	762.4	711.9	638.4	546.0	443.7	343.7	259.0
115°	797.1	792.3	778.4	753.6	715.5	660.1	589.7	506.9	418.2	333.3	261.3
117.5°	749.7	745.6	730.9	704.8	665.9	614.0	550.1	477.4	402.1	328.2	265.1
120°	719.2	713.8	698.2	673.0	635.4	586.4	529.4	462.8	393.5	325.2	267.7
122.5°	687.4	682.9	669.0	644.1	610.4	566.2	512.3	451.2	386.2	323.5	270.7
125°	646.7	642.3	628.9	608.5	577.3	537.0	489.7	434.3	375.7	320.4	275.2
127.5°	611.0	607.5	595.9	576.7	549.6	512.4	467.8	417.6	366.1	318.6	279.8
130°	590.7	586.4	575.7	557.4	531.0	495.6	453.2	406.9	359.6	317.6	283.2
132.5°	569.7	565.8	555.9	537.6	511.7	478.4	439.4	396.6	354.4	317.3	286.7
135°	535.9	533.8	524.1	506.3	483.2	453.2	417.6	382.2	347.2	316.6	290.8
137.5°	502.8	499.5	491.1	475.8	454.8	428.5	400.4	370.7	342.1	316.5	294.5
140°	480.0	476.7	468.7	454.8	437.5	413.9	389.2	363.4	339.2	316.0	296.1
142.5°	457.2	456.6	449.4	436.7	420.4	400.6	379.3	357.3	336.2	316.0	297.5
145°	427.8	426.2	420.8	411.7	398.9	383.2	366.6	348.8	332.2	315.0	298.9
147.5°	403.2	402.3	398.6	391.3	380.7	369.3	356.3	342.3	328.1	313.0	299.3
150°	388.6	388.0	384.8	378.4	370.3	360.7	349.4	337.5	324.7	311.8	298.9
152.5°	376.2	376.1	373.7	368.1	361.7	353.4	343.8	332.8	321.7	309.6	298.0
155°	359.6	360.7	358.5	354.8	348.8	342.9	334.9	326.3	316.0	305.9	296.7
157.5°	345.5	345.5	344.6	341.4	337.2	332.6	325.8	318.7	310.8	302.0	294.3
160°	336.5	336.5	335.9	333.3	329.5	325.7	319.8	313.9	306.9	299.4	292.9
162.5°	327.9	328.3	327.8	325.9	322.2	319.3	314.2	309.2	303.5	297.3	291.6
165°	315.6	316.0	316.0	313.9	311.8	309.6	305.9	302.1	297.7	292.9	289.2
167.5°	304.2	304.8	304.9	303.7	302.7	300.8	298.2	295.3	292.2	289.2	286.7
170°	297.3	298.3	298.9	297.3	296.7	295.7	293.5	291.9	289.2	287.0	285.4
172.5°	291.6	292.3	292.8	292.1	291.5	290.9	289.2	288.0	286.2	284.5	283.7
175°	284.4	285.4	286.0	285.4	285.4	284.9	284.4	283.8	282.2	281.6	281.2
177.5°	279.9	280.8	281.3	281.3	281.3	281.3	280.8	280.8	279.9	279.5	279.9
180°	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5



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**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°	11.3	10.6	10.1	10.3	9.2	9.0	7.4	6.3	6.3	6.5	6.1
90°	14.5	10.7	8.1	6.4	5.4	4.3	2.2	0.6	2.2	4.3	5.4
92.5°	53.6	36.6	24.4	19.3	15.7	13.3	9.4	6.6	9.4	13.3	15.7
95°	124.1	77.4	52.7	39.8	31.2	26.3	20.9	18.9	20.9	26.3	31.2
97.5°	167.3	102.2	71.1	56.5	46.6	39.2	33.6	30.6	33.6	39.2	46.6
100°	176.3	110.7	82.3	67.2	56.5	47.9	43.0	41.4	43.0	47.9	56.5
102.5°	176.7	118.5	92.1	77.1	65.9	57.3	52.5	51.3	52.5	57.3	65.9
105°	179.6	131.7	106.4	91.3	79.6	71.4	67.8	65.6	67.8	71.4	79.6
107.5°	186.9	145.2	120.7	105.6	93.9	86.4	82.8	81.1	82.8	86.4	93.9
110°	192.9	154.3	130.6	115.0	103.8	96.8	93.5	91.3	93.5	96.8	103.8





TEST NUMBER: P331296-830

CATALOG NUMBER: S122DIP-S485D530U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	199.4	162.9	140.1	124.0	113.2	106.6	103.0	100.9	103.0	106.6	113.2
115°	209.1	176.3	153.2	138.6	127.9	121.5	118.3	115.6	118.3	121.5	127.9
117.5°	219.4	188.7	167.3	152.2	141.9	136.2	133.0	130.8	133.0	136.2	141.9
120°	226.3	197.3	176.3	161.3	150.5	145.6	142.4	140.3	142.4	145.6	150.5
122.5°	232.3	205.5	185.8	170.3	159.6	154.3	151.1	149.3	151.1	154.3	159.6
125°	241.9	217.7	198.3	183.3	172.6	166.1	162.9	161.3	162.9	166.1	172.6
127.5°	250.8	229.1	210.3	194.8	184.5	177.4	172.9	170.7	172.9	177.4	184.5
130°	256.4	236.0	217.2	202.1	191.3	183.8	178.4	176.3	178.4	183.8	191.3
132.5°	262.0	242.0	224.0	209.0	197.8	189.8	184.1	181.4	184.1	189.8	197.8
135°	269.3	250.5	233.3	218.2	205.9	197.8	191.3	189.2	191.3	197.8	205.9
137.5°	274.8	257.4	240.3	226.4	214.1	205.6	199.1	196.5	199.1	205.6	214.1
140°	277.9	261.3	245.2	231.1	219.3	210.8	204.2	202.1	204.2	210.8	219.3
142.5°	280.5	264.3	248.5	235.4	224.0	215.5	209.4	207.7	209.4	215.5	224.0
145°	283.8	268.7	254.2	242.4	231.7	223.6	218.2	216.1	218.2	223.6	231.7
147.5°	285.7	272.4	258.7	248.3	239.3	231.9	226.7	225.1	226.7	231.9	239.3
150°	286.5	274.1	261.7	252.1	244.0	237.0	232.7	231.1	232.7	237.0	244.0
152.5°	286.9	275.9	264.8	256.0	248.4	242.2	237.9	237.1	237.9	242.2	248.4
155°	287.6	278.4	269.3	261.3	255.3	249.4	246.2	245.6	246.2	249.4	255.3
157.5°	287.6	280.2	272.5	265.8	261.0	255.9	253.3	252.7	253.3	255.9	261.0
160°	287.6	281.2	274.7	268.7	264.5	260.1	258.0	257.5	258.0	260.1	264.5
162.5°	287.1	281.5	276.0	271.4	267.5	264.0	261.8	262.2	261.8	264.0	267.5
165°	286.0	282.2	277.4	274.1	271.5	268.2	267.1	267.7	267.1	268.2	271.5
167.5°	285.2	282.1	278.5	276.5	274.6	272.5	271.5	272.2	271.5	272.5	274.6
170°	284.4	281.6	279.0	277.4	276.3	274.7	274.1	275.2	274.1	274.7	276.3
172.5°	283.0	281.3	279.4	278.2	277.6	276.0	276.3	276.9	276.3	276.0	277.6
175°	281.6	280.6	279.5	279.0	279.0	277.9	278.4	279.0	278.4	277.9	279.0
177.5°	280.8	279.9	279.5	279.5	279.5	278.6	279.1	279.9	279.1	278.6	279.5
180°	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5



TEST NUMBER: P331296-830

CATALOG NUMBER: S122DIP-S485D530U830-4F0-1E-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°	6.0	6.1	6.4	7.2	7.4	7.4	6.9	6.8	6.6	6.2	6.4
90°	6.4	8.1	10.7	14.5	17.7	18.3	17.7	17.2	16.1	17.2	17.7
92.5°	19.3	24.4	36.6	53.6	68.9	69.8	59.0	46.8	40.2	35.7	32.3
95°	39.8	52.7	77.4	124.1	186.5	210.8	184.4	140.8	108.0	85.5	73.6
97.5°	56.5	71.1	102.2	167.3	270.9	359.7	377.3	328.7	268.9	210.8	171.9
100°	67.2	82.3	110.7	176.3	292.4	424.6	502.0	490.8	424.1	350.4	285.4
102.5°	77.1	92.1	118.5	176.7	284.3	426.8	548.5	597.0	581.9	528.1	459.1
105°	91.3	106.4	131.7	179.6	268.2	398.3	541.3	653.1	713.8	720.9	703.0
107.5°	105.6	120.7	145.2	186.9	260.2	367.8	494.1	612.7	704.2	760.1	786.1
110°	115.0	130.6	154.3	192.9	258.5	353.2	464.4	577.9	674.0	742.8	786.9



TEST NUMBER: P331296-830

CATALOG NUMBER: S122DIP-S485D530U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	124.0	140.1	162.9	199.4	259.0	343.7	443.7	546.0	638.4	711.9	762.4
115°	138.6	153.2	176.3	209.1	261.3	333.3	418.2	506.9	589.7	660.1	715.5
117.5°	152.2	167.3	188.7	219.4	265.1	328.2	402.1	477.4	550.1	614.0	665.9
120°	161.3	176.3	197.3	226.3	267.7	325.2	393.5	462.8	529.4	586.4	635.4
122.5°	170.3	185.8	205.5	232.3	270.7	323.5	386.2	451.2	512.3	566.2	610.4
125°	183.3	198.3	217.7	241.9	275.2	320.4	375.7	434.3	489.7	537.0	577.3
127.5°	194.8	210.3	229.1	250.8	279.8	318.6	366.1	417.6	467.8	512.4	549.6
130°	202.1	217.2	236.0	256.4	283.2	317.6	359.6	406.9	453.2	495.6	531.0
132.5°	209.0	224.0	242.0	262.0	286.7	317.3	354.4	396.6	439.4	478.4	511.7
135°	218.2	233.3	250.5	269.3	290.8	316.6	347.2	382.2	417.6	453.2	483.2
137.5°	226.4	240.3	257.4	274.8	294.5	316.5	342.1	370.7	400.4	428.5	454.8
140°	231.1	245.2	261.3	277.9	296.1	316.0	339.2	363.4	389.2	413.9	437.5
142.5°	235.4	248.5	264.3	280.5	297.5	316.0	336.2	357.3	379.3	400.6	420.4
145°	242.4	254.2	268.7	283.8	298.9	315.0	332.2	348.8	366.6	383.2	398.9
147.5°	248.3	258.7	272.4	285.7	299.3	313.0	328.1	342.3	356.3	369.3	380.7
150°	252.1	261.7	274.1	286.5	298.9	311.8	324.7	337.5	349.4	360.7	370.3
152.5°	256.0	264.8	275.9	286.9	298.0	309.6	321.7	332.8	343.8	353.4	361.7
155°	261.3	269.3	278.4	287.6	296.7	305.9	316.0	326.3	334.9	342.9	348.8
157.5°	265.8	272.5	280.2	287.6	294.3	302.0	310.8	318.7	325.8	332.6	337.2
160°	268.7	274.7	281.2	287.6	292.9	299.4	306.9	313.9	319.8	325.7	329.5
162.5°	271.4	276.0	281.5	287.1	291.6	297.3	303.5	309.2	314.2	319.3	322.2
165°	274.1	277.4	282.2	286.0	289.2	292.9	297.7	302.1	305.9	309.6	311.8
167.5°	276.5	278.5	282.1	285.2	286.7	289.2	292.2	295.3	298.2	300.8	302.7
170°	277.4	279.0	281.6	284.4	285.4	287.0	289.2	291.9	293.5	295.7	296.7
172.5°	278.2	279.4	281.3	283.0	283.7	284.5	286.2	288.0	289.2	290.9	291.5
175°	279.0	279.5	280.6	281.6	281.2	281.6	282.2	283.8	284.4	284.9	285.4
177.5°	279.5	279.5	279.9	280.8	279.9	279.5	279.9	280.8	280.8	281.3	281.3
180°	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5



TEST NUMBER: P331296-830

CATALOG NUMBER: S122DIP-S485D530U830-4F0-1E-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°	6.4	6.1	6.1	5.8	6.1	6.1	6.4	6.4	6.2	6.6	6.8
90°	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.2	16.1	17.2
92.5°	32.0	30.3	30.6	29.8	30.6	30.3	32.0	32.3	35.7	40.2	46.8
95°	66.6	62.4	60.7	61.3	60.7	62.4	66.6	73.6	85.5	108.0	140.8
97.5°	146.2	133.0	125.2	120.6	125.2	133.0	146.2	171.9	210.8	268.9	328.7
100°	240.8	217.7	202.1	192.5	202.1	217.7	240.8	285.4	350.4	424.1	490.8
102.5°	410.7	371.2	351.8	338.7	351.8	371.2	410.7	459.1	528.1	581.9	597.0
105°	669.8	636.4	613.3	605.8	613.3	636.4	669.8	703.0	720.9	713.8	653.1
107.5°	790.2	788.4	783.8	773.8	783.8	788.4	790.2	786.1	760.1	704.2	612.7
110°	810.0	820.3	825.1	824.5	825.1	820.3	810.0	786.9	742.8	674.0	577.9



TEST NUMBER: P331296-830

CATALOG NUMBER: S122DIP-S485D530U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	794.6	811.6	820.8	823.7	820.8	811.6	794.6	762.4	711.9	638.4	546.0
115°	753.6	778.4	792.3	797.1	792.3	778.4	753.6	715.5	660.1	589.7	506.9
117.5°	704.8	730.9	745.6	749.7	745.6	730.9	704.8	665.9	614.0	550.1	477.4
120°	673.0	698.2	713.8	719.2	713.8	698.2	673.0	635.4	586.4	529.4	462.8
122.5°	644.1	669.0	682.9	687.4	682.9	669.0	644.1	610.4	566.2	512.3	451.2
125°	608.5	628.9	642.3	646.7	642.3	628.9	608.5	577.3	537.0	489.7	434.3
127.5°	576.7	595.9	607.5	611.0	607.5	595.9	576.7	549.6	512.4	467.8	417.6
130°	557.4	575.7	586.4	590.7	586.4	575.7	557.4	531.0	495.6	453.2	406.9
132.5°	537.6	555.9	565.8	569.7	565.8	555.9	537.6	511.7	478.4	439.4	396.6
135°	506.3	524.1	533.8	535.9	533.8	524.1	506.3	483.2	453.2	417.6	382.2
137.5°	475.8	491.1	499.5	502.8	499.5	491.1	475.8	454.8	428.5	400.4	370.7
140°	454.8	468.7	476.7	480.0	476.7	468.7	454.8	437.5	413.9	389.2	363.4
142.5°	436.7	449.4	456.6	457.2	456.6	449.4	436.7	420.4	400.6	379.3	357.3
145°	411.7	420.8	426.2	427.8	426.2	420.8	411.7	398.9	383.2	366.6	348.8
147.5°	391.3	398.6	402.3	403.2	402.3	398.6	391.3	380.7	369.3	356.3	342.3
150°	378.4	384.8	388.0	388.6	388.0	384.8	378.4	370.3	360.7	349.4	337.5
152.5°	368.1	373.7	376.1	376.2	376.1	373.7	368.1	361.7	353.4	343.8	332.8
155°	354.8	358.5	360.7	359.6	360.7	358.5	354.8	348.8	342.9	334.9	326.3
157.5°	341.4	344.6	345.5	345.5	345.5	344.6	341.4	337.2	332.6	325.8	318.7
160°	333.3	335.9	336.5	336.5	336.5	335.9	333.3	329.5	325.7	319.8	313.9
162.5°	325.9	327.8	328.3	327.9	328.3	327.8	325.9	322.2	319.3	314.2	309.2
165°	313.9	316.0	316.0	315.6	316.0	316.0	313.9	311.8	309.6	305.9	302.1
167.5°	303.7	304.9	304.8	304.2	304.8	304.9	303.7	302.7	300.8	298.2	295.3
170°	297.3	298.9	298.3	297.3	298.3	298.9	297.3	296.7	295.7	293.5	291.9
172.5°	292.1	292.8	292.3	291.6	292.3	292.8	292.1	291.5	290.9	289.2	288.0
175°	285.4	286.0	285.4	284.4	285.4	286.0	285.4	285.4	284.9	284.4	283.8
177.5°	281.3	281.3	280.8	279.9	280.8	281.3	281.3	281.3	281.3	280.8	280.8
180°	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5



TEST NUMBER: P331296-830

CATALOG NUMBER: S122DIP-S485D530U830-4F0-1E-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°	6.9	7.4	7.4	7.2	6.4	6.1	6.0	6.1	6.5	6.3	6.3
90°	17.7	18.3	17.7	14.5	10.7	8.1	6.4	5.4	4.3	2.2	0.6
92.5°	59.0	69.8	68.9	53.6	36.6	24.4	19.3	15.7	13.3	9.4	6.6
95°	184.4	210.8	186.5	124.1	77.4	52.7	39.8	31.2	26.3	20.9	18.9
97.5°	377.3	359.7	270.9	167.3	102.2	71.1	56.5	46.6	39.2	33.6	30.6
100°	502.0	424.6	292.4	176.3	110.7	82.3	67.2	56.5	47.9	43.0	41.4
102.5°	548.5	426.8	284.3	176.7	118.5	92.1	77.1	65.9	57.3	52.5	51.3
105°	541.3	398.3	268.2	179.6	131.7	106.4	91.3	79.6	71.4	67.8	65.6
107.5°	494.1	367.8	260.2	186.9	145.2	120.7	105.6	93.9	86.4	82.8	81.1
110°	464.4	353.2	258.5	192.9	154.3	130.6	115.0	103.8	96.8	93.5	91.3



TEST NUMBER: P331296-830

CATALOG NUMBER: S122DIP-S485D530U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	443.7	343.7	259.0	199.4	162.9	140.1	124.0	113.2	106.6	103.0	100.9
115°	418.2	333.3	261.3	209.1	176.3	153.2	138.6	127.9	121.5	118.3	115.6
117.5°	402.1	328.2	265.1	219.4	188.7	167.3	152.2	141.9	136.2	133.0	130.8
120°	393.5	325.2	267.7	226.3	197.3	176.3	161.3	150.5	145.6	142.4	140.3
122.5°	386.2	323.5	270.7	232.3	205.5	185.8	170.3	159.6	154.3	151.1	149.3
125°	375.7	320.4	275.2	241.9	217.7	198.3	183.3	172.6	166.1	162.9	161.3
127.5°	366.1	318.6	279.8	250.8	229.1	210.3	194.8	184.5	177.4	172.9	170.7
130°	359.6	317.6	283.2	256.4	236.0	217.2	202.1	191.3	183.8	178.4	176.3
132.5°	354.4	317.3	286.7	262.0	242.0	224.0	209.0	197.8	189.8	184.1	181.4
135°	347.2	316.6	290.8	269.3	250.5	233.3	218.2	205.9	197.8	191.3	189.2
137.5°	342.1	316.5	294.5	274.8	257.4	240.3	226.4	214.1	205.6	199.1	196.5
140°	339.2	316.0	296.1	277.9	261.3	245.2	231.1	219.3	210.8	204.2	202.1
142.5°	336.2	316.0	297.5	280.5	264.3	248.5	235.4	224.0	215.5	209.4	207.7
145°	332.2	315.0	298.9	283.8	268.7	254.2	242.4	231.7	223.6	218.2	216.1
147.5°	328.1	313.0	299.3	285.7	272.4	258.7	248.3	239.3	231.9	226.7	225.1
150°	324.7	311.8	298.9	286.5	274.1	261.7	252.1	244.0	237.0	232.7	231.1
152.5°	321.7	309.6	298.0	286.9	275.9	264.8	256.0	248.4	242.2	237.9	237.1
155°	316.0	305.9	296.7	287.6	278.4	269.3	261.3	255.3	249.4	246.2	245.6
157.5°	310.8	302.0	294.3	287.6	280.2	272.5	265.8	261.0	255.9	253.3	252.7
160°	306.9	299.4	292.9	287.6	281.2	274.7	268.7	264.5	260.1	258.0	257.5
162.5°	303.5	297.3	291.6	287.1	281.5	276.0	271.4	267.5	264.0	261.8	262.2
165°	297.7	292.9	289.2	286.0	282.2	277.4	274.1	271.5	268.2	267.1	267.7
167.5°	292.2	289.2	286.7	285.2	282.1	278.5	276.5	274.6	272.5	271.5	272.2
170°	289.2	287.0	285.4	284.4	281.6	279.0	277.4	276.3	274.7	274.1	275.2
172.5°	286.2	284.5	283.7	283.0	281.3	279.4	278.2	277.6	276.0	276.3	276.9
175°	282.2	281.6	281.2	281.6	280.6	279.5	279.0	279.0	277.9	278.4	279.0
177.5°	279.9	279.5	279.9	280.8	279.9	279.5	279.5	279.5	278.6	279.1	279.9
180°	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5



TEST NUMBER: P331296-830

CATALOG NUMBER: S122DIP-S485D530U830-4F0-1E-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°	7.4	9.0	9.2	10.3	10.1	10.6	11.3	11.7	11.5	11.1	10.7
90°	2.2	4.3	5.4	6.4	8.1	10.7	14.5	17.7	18.3	17.7	17.2
92.5°	9.4	13.3	15.7	19.3	24.4	36.6	53.6	68.9	69.8	59.0	46.8
95°	20.9	26.3	31.2	39.8	52.7	77.4	124.1	186.5	210.8	184.4	140.8
97.5°	33.6	39.2	46.6	56.5	71.1	102.2	167.3	270.9	359.7	377.3	328.7
100°	43.0	47.9	56.5	67.2	82.3	110.7	176.3	292.4	424.6	502.0	490.8
102.5°	52.5	57.3	65.9	77.1	92.1	118.5	176.7	284.3	426.8	548.5	597.0
105°	67.8	71.4	79.6	91.3	106.4	131.7	179.6	268.2	398.3	541.3	653.1
107.5°	82.8	86.4	93.9	105.6	120.7	145.2	186.9	260.2	367.8	494.1	612.7
110°	93.5	96.8	103.8	115.0	130.6	154.3	192.9	258.5	353.2	464.4	577.9





TEST NUMBER: P331296-830

CATALOG NUMBER: S122DIP-S485D530U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	103.0	106.6	113.2	124.0	140.1	162.9	199.4	259.0	343.7	443.7	546.0
115°	118.3	121.5	127.9	138.6	153.2	176.3	209.1	261.3	333.3	418.2	506.9
117.5°	133.0	136.2	141.9	152.2	167.3	188.7	219.4	265.1	328.2	402.1	477.4
120°	142.4	145.6	150.5	161.3	176.3	197.3	226.3	267.7	325.2	393.5	462.8
122.5°	151.1	154.3	159.6	170.3	185.8	205.5	232.3	270.7	323.5	386.2	451.2
125°	162.9	166.1	172.6	183.3	198.3	217.7	241.9	275.2	320.4	375.7	434.3
127.5°	172.9	177.4	184.5	194.8	210.3	229.1	250.8	279.8	318.6	366.1	417.6
130°	178.4	183.8	191.3	202.1	217.2	236.0	256.4	283.2	317.6	359.6	406.9
132.5°	184.1	189.8	197.8	209.0	224.0	242.0	262.0	286.7	317.3	354.4	396.6
135°	191.3	197.8	205.9	218.2	233.3	250.5	269.3	290.8	316.6	347.2	382.2
137.5°	199.1	205.6	214.1	226.4	240.3	257.4	274.8	294.5	316.5	342.1	370.7
140°	204.2	210.8	219.3	231.1	245.2	261.3	277.9	296.1	316.0	339.2	363.4
142.5°	209.4	215.5	224.0	235.4	248.5	264.3	280.5	297.5	316.0	336.2	357.3
145°	218.2	223.6	231.7	242.4	254.2	268.7	283.8	298.9	315.0	332.2	348.8
147.5°	226.7	231.9	239.3	248.3	258.7	272.4	285.7	299.3	313.0	328.1	342.3
150°	232.7	237.0	244.0	252.1	261.7	274.1	286.5	298.9	311.8	324.7	337.5
152.5°	237.9	242.2	248.4	256.0	264.8	275.9	286.9	298.0	309.6	321.7	332.8
155°	246.2	249.4	255.3	261.3	269.3	278.4	287.6	296.7	305.9	316.0	326.3
157.5°	253.3	255.9	261.0	265.8	272.5	280.2	287.6	294.3	302.0	310.8	318.7
160°	258.0	260.1	264.5	268.7	274.7	281.2	287.6	292.9	299.4	306.9	313.9
162.5°	261.8	264.0	267.5	271.4	276.0	281.5	287.1	291.6	297.3	303.5	309.2
165°	267.1	268.2	271.5	274.1	277.4	282.2	286.0	289.2	292.9	297.7	302.1
167.5°	271.5	272.5	274.6	276.5	278.5	282.1	285.2	286.7	289.2	292.2	295.3
170°	274.1	274.7	276.3	277.4	279.0	281.6	284.4	285.4	287.0	289.2	291.9
172.5°	276.3	276.0	277.6	278.2	279.4	281.3	283.0	283.7	284.5	286.2	288.0
175°	278.4	277.9	279.0	279.0	279.5	280.6	281.6	281.2	281.6	282.2	283.8
177.5°	279.1	278.6	279.5	279.5	279.5	279.9	280.8	279.9	279.5	279.9	280.8
180°	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5



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**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°	10.8	11.0	10.8	10.8	11.1	10.8	10.8
90°	16.1	17.2	17.7	17.7	17.7	17.7	17.7
92.5°	40.2	35.7	32.3	32.0	30.3	30.6	29.8
95°	108.0	85.5	73.6	66.6	62.4	60.7	61.3
97.5°	268.9	210.8	171.9	146.2	133.0	125.2	120.6
100°	424.1	350.4	285.4	240.8	217.7	202.1	192.5
102.5°	581.9	528.1	459.1	410.7	371.2	351.8	338.7
105°	713.8	720.9	703.0	669.8	636.4	613.3	605.8
107.5°	704.2	760.1	786.1	790.2	788.4	783.8	773.8
110°	674.0	742.8	786.9	810.0	820.3	825.1	824.5



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	638.4	711.9	762.4	794.6	811.6	820.8	823.7
115°	589.7	660.1	715.5	753.6	778.4	792.3	797.1
117.5°	550.1	614.0	665.9	704.8	730.9	745.6	749.7
120°	529.4	586.4	635.4	673.0	698.2	713.8	719.2
122.5°	512.3	566.2	610.4	644.1	669.0	682.9	687.4
125°	489.7	537.0	577.3	608.5	628.9	642.3	646.7
127.5°	467.8	512.4	549.6	576.7	595.9	607.5	611.0
130°	453.2	495.6	531.0	557.4	575.7	586.4	590.7
132.5°	439.4	478.4	511.7	537.6	555.9	565.8	569.7
135°	417.6	453.2	483.2	506.3	524.1	533.8	535.9
137.5°	400.4	428.5	454.8	475.8	491.1	499.5	502.8
140°	389.2	413.9	437.5	454.8	468.7	476.7	480.0
142.5°	379.3	400.6	420.4	436.7	449.4	456.6	457.2
145°	366.6	383.2	398.9	411.7	420.8	426.2	427.8
147.5°	356.3	369.3	380.7	391.3	398.6	402.3	403.2
150°	349.4	360.7	370.3	378.4	384.8	388.0	388.6
152.5°	343.8	353.4	361.7	368.1	373.7	376.1	376.2
155°	334.9	342.9	348.8	354.8	358.5	360.7	359.6
157.5°	325.8	332.6	337.2	341.4	344.6	345.5	345.5
160°	319.8	325.7	329.5	333.3	335.9	336.5	336.5
162.5°	314.2	319.3	322.2	325.9	327.8	328.3	327.9
165°	305.9	309.6	311.8	313.9	316.0	316.0	315.6
167.5°	298.2	300.8	302.7	303.7	304.9	304.8	304.2
170°	293.5	295.7	296.7	297.3	298.9	298.3	297.3
172.5°	289.2	290.9	291.5	292.1	292.8	292.3	291.6
175°	284.4	284.9	285.4	285.4	286.0	285.4	284.4
177.5°	280.8	281.3	281.3	281.3	281.3	280.8	279.9
180°	279.5	279.5	279.5	279.5	279.5	279.5	279.5

(END OF REPORT)