

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: P331295-830

Luminaire Tested: **S122DIP-S485D530U830-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331295-830  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,  
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-A1  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 530 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3804.1 lumens  
Efficiency: N/A  
Efficacy: 116.0 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

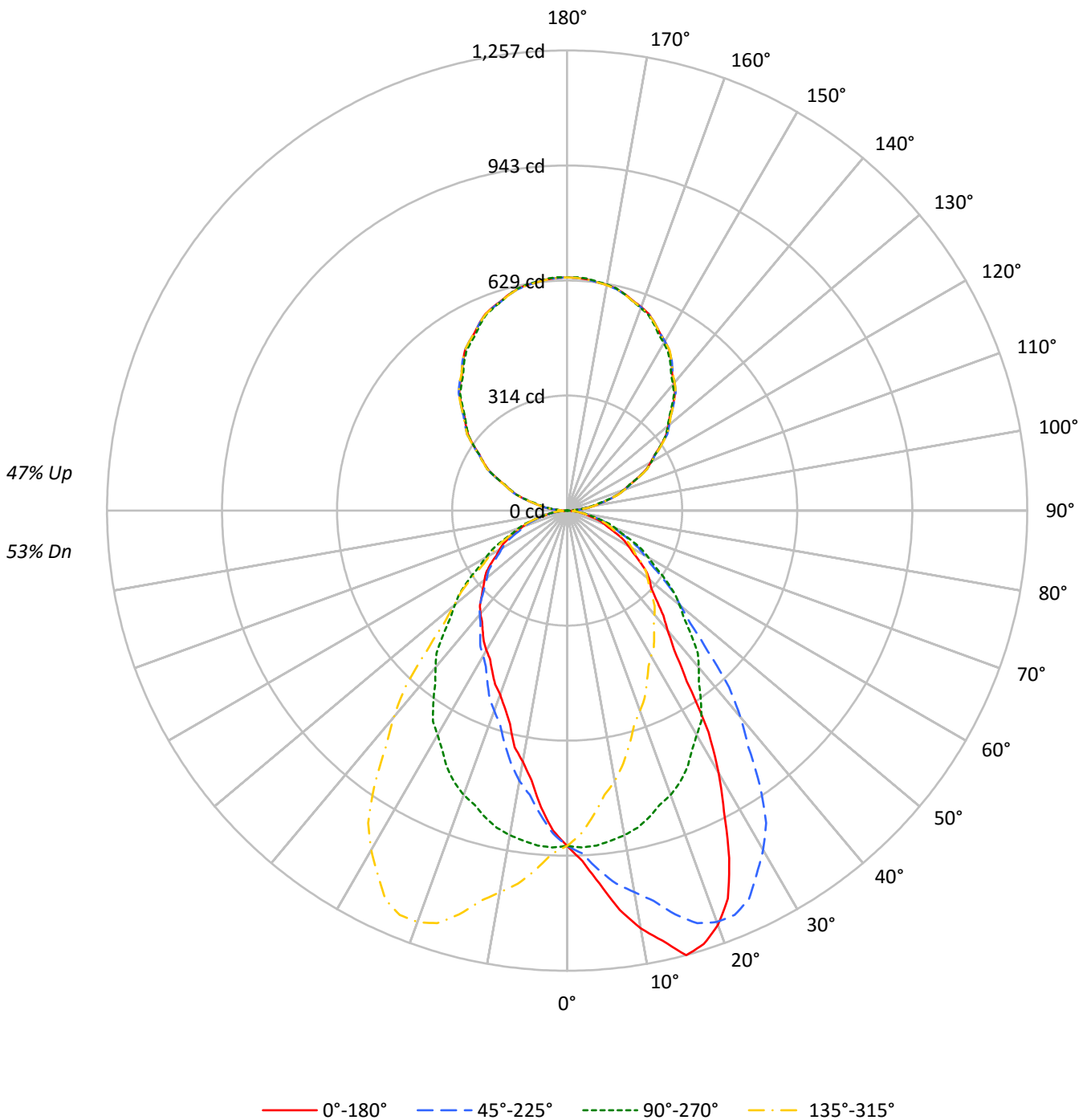
Input Watts (W): 32.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59	53
1	99	95	91	88	92	88	85	82	75	73	71	64	62	61	53	52	51	46
2	91	83	77	73	84	78	72	68	67	63	60	57	54	51	47	45	44	39
3	83	74	67	61	77	69	63	58	59	55	51	50	47	44	42	40	38	34
4	76	66	58	52	70	61	54	49	53	48	44	45	41	38	38	35	33	29
5	70	59	51	45	65	55	48	43	48	42	38	41	37	33	35	32	29	26
6	65	53	45	39	60	50	43	37	43	38	33	37	33	30	32	28	26	23
7	60	48	40	35	56	45	38	33	39	34	30	34	30	26	29	26	23	21
8	56	44	36	31	52	41	34	29	36	31	27	31	27	24	27	23	21	19
9	52	40	33	28	48	38	31	26	33	28	24	29	25	21	25	21	19	17
10	49	37	30	25	45	35	28	24	31	25	22	27	23	20	23	20	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	2.3
10°-20°	253.6	6.7
20°-30°	368.0	9.7
30°-40°	388.4	10.2
40°-50°	343.9	9.0
50°-60°	274.4	7.2
60°-70°	186.5	4.9
70°-80°	95.6	2.5
80°-90°	25.6	0.7
90°-100°	40.4	1.1
100°-110°	125.3	3.3
110°-120°	214.3	5.6
120°-130°	281.8	7.4
130°-140°	316.2	8.3
140°-150°	310.1	8.2
150°-160°	260.1	6.8
160°-170°	172.5	4.5
170°-180°	60.3	1.6
0°-30°	708.8	18.6
0°-40°	1097.2	28.8
0°-60°	1715.5	45.1
0°-90°	2023.2	53.2
90°-120°	380.0	10.0
90°-150°	1288.0	33.9
90°-180°	1781.0	46.8
0°-180°	3804.1	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	9
95°	33	28	33	28	33	37
105°	119	116	119	116	119	125
115°	215	215	215	215	215	212
125°	314	313	314	313	314	280
135°	410	405	410	405	410	315
145°	497	491	497	491	497	310
155°	566	562	566	562	566	260
165°	612	611	612	611	612	172
175°	634	636	634	636	634	60
180°	637	637	637	637	637	



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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°	10.9	10.9	11.2	10.9	10.8	11.2	11.2	11.0	11.3	11.7	11.4
90°	18.3	18.2	18.0	17.9	17.8	17.8	18.1	18.4	18.6	18.9	16.2
92.5°	17.4	17.4	17.3	17.3	17.3	17.2	17.2	17.2	17.2	17.1	16.5
95°	33.4	33.6	33.8	34.0	34.3	34.4	34.4	34.4	34.4	34.4	34.1
97.5°	57.7	57.8	57.8	57.8	57.8	57.9	57.9	57.9	57.9	57.9	57.4
100°	73.6	73.8	73.9	74.0	74.1	74.2	74.2	74.2	74.2	74.2	73.8
102.5°	91.7	91.8	91.9	92.1	92.2	92.2	92.1	92.0	91.9	91.8	91.3
105°	119.3	119.3	119.3	119.3	119.3	119.2	118.9	118.8	118.5	118.3	118.0
107.5°	145.3	145.9	146.5	146.9	147.5	147.8	147.7	147.6	147.5	147.4	147.4
110°	165.5	165.9	166.3	166.6	167.0	167.1	167.1	167.1	167.1	167.1	167.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	184.9	185.1	185.4	185.7	186.0	186.2	186.5	186.8	187.1	187.4	187.5
115°	215.0	215.4	215.7	216.0	216.4	216.7	216.8	216.9	217.1	217.2	217.4
117.5°	243.6	244.0	244.4	244.8	245.2	245.4	245.7	246.0	246.3	246.6	247.2
120°	263.9	264.3	264.7	264.9	265.3	265.5	265.5	265.5	265.5	265.5	266.5
122.5°	283.7	284.0	284.2	284.5	284.7	285.0	285.3	285.6	285.9	286.2	286.8
125°	313.9	314.0	314.1	314.2	314.3	314.6	315.0	315.3	315.7	316.0	316.4
127.5°	341.4	341.8	342.1	342.5	342.9	343.4	343.7	344.2	344.6	345.1	345.5
130°	361.2	361.7	362.1	362.6	363.1	363.4	363.7	363.9	364.2	364.4	364.7
132.5°	380.1	380.5	380.9	381.3	381.6	382.1	382.6	383.1	383.7	384.2	384.2
135°	409.5	409.9	410.3	410.7	410.9	411.2	411.3	411.5	411.6	411.7	411.5
137.5°	436.2	436.7	437.2	437.6	438.1	438.4	438.5	438.6	438.7	438.8	438.5
140°	454.7	455.2	455.6	456.1	456.7	456.9	456.9	456.9	456.9	456.9	456.3
142.5°	471.5	471.9	472.4	472.9	473.3	473.5	473.4	473.3	473.3	473.2	472.8
145°	496.6	497.1	497.6	498.0	498.5	498.7	498.6	498.5	498.3	498.2	497.6
147.5°	519.1	519.5	520.0	520.5	520.9	521.0	520.8	520.5	520.2	520.0	519.4
150°	533.8	534.0	534.4	534.8	535.2	535.2	534.8	534.4	534.0	533.8	533.2
152.5°	547.5	547.9	548.4	548.8	549.3	549.3	548.8	548.4	547.9	547.5	546.9
155°	566.0	566.3	566.7	567.0	567.4	567.3	566.7	566.1	565.5	564.9	564.5
157.5°	581.8	582.5	583.1	583.6	584.2	584.1	583.2	582.4	581.6	580.8	580.6
160°	591.7	592.2	592.8	593.2	593.7	593.5	592.9	592.1	591.4	590.7	590.6
162.5°	600.4	601.0	601.5	602.1	602.7	602.6	601.7	600.9	600.1	599.3	599.2
165°	611.6	612.3	612.8	613.4	614.1	613.9	613.1	612.3	611.4	610.6	610.6
167.5°	620.9	621.5	622.2	622.7	623.4	623.3	622.5	621.6	620.8	619.9	619.9
170°	625.7	626.3	627.1	627.7	628.5	628.4	627.6	626.8	625.9	625.1	625.2
172.5°	629.5	630.2	630.9	631.7	632.4	632.3	631.5	630.7	629.8	629.0	629.1
175°	633.7	634.4	635.1	635.8	636.6	636.5	635.7	634.8	634.0	633.1	633.4
177.5°	635.7	636.2	636.8	637.3	637.9	637.9	637.3	636.8	636.2	635.7	635.8
180°	636.9	636.9	636.9	636.9	636.9	636.9	636.9	636.9	636.9	636.9	636.9



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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°	11.1	10.7	10.1	10.3	9.1	8.9	7.4	6.3	6.3	6.3	6.0
90°	13.6	10.9	8.3	6.3	4.8	3.4	2.0	0.6	2.0	3.4	4.8
92.5°	15.8	15.3	14.6	13.8	12.7	11.7	10.7	9.6	10.7	11.7	12.7
95°	33.9	33.6	33.5	32.7	31.6	30.3	29.1	28.0	29.1	30.3	31.6
97.5°	56.9	56.5	56.0	55.2	54.2	53.2	52.1	51.1	52.1	53.2	54.2
100°	73.4	73.1	72.8	72.1	71.2	70.1	69.2	68.2	69.2	70.1	71.2
102.5°	90.9	90.5	90.0	89.4	88.6	87.8	87.1	86.3	87.1	87.8	88.6
105°	117.7	117.5	117.3	117.0	116.6	116.3	115.9	115.6	115.9	116.3	116.6
107.5°	147.4	147.4	147.4	147.1	146.6	146.1	145.5	145.1	145.5	146.1	146.6
110°	167.1	167.1	167.1	166.8	166.1	165.3	164.7	163.9	164.7	165.3	166.1





TEST NUMBER: P331295-830

CATALOG NUMBER: S122DIP-S485D530U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	187.6	187.7	187.8	187.5	186.7	186.0	185.3	184.5	185.3	186.0	186.7
115°	217.6	217.8	218.1	217.8	217.2	216.4	215.7	215.0	215.7	216.4	217.2
117.5°	247.9	248.6	249.3	249.1	248.2	247.2	246.3	245.3	246.3	247.2	248.2
120°	267.4	268.3	269.4	269.4	268.3	267.4	266.5	265.5	266.5	267.4	268.3
122.5°	287.5	288.1	288.8	288.6	287.5	286.3	285.1	284.0	285.1	286.3	287.5
125°	316.8	317.1	317.4	317.1	316.0	315.0	313.9	312.8	313.9	315.0	316.0
127.5°	345.9	346.4	346.8	346.3	345.0	343.6	342.2	340.8	342.2	343.6	345.0
130°	364.9	365.1	365.3	364.7	363.2	361.6	360.1	358.5	360.1	361.6	363.2
132.5°	384.1	384.1	384.0	383.3	382.1	380.8	379.6	378.2	379.6	380.8	382.1
135°	411.2	410.9	410.8	410.0	408.7	407.4	406.0	404.7	406.0	407.4	408.7
137.5°	438.2	437.9	437.5	436.9	435.8	434.7	433.7	432.5	433.7	434.7	435.8
140°	455.6	455.1	454.5	453.6	452.5	451.5	450.4	449.3	450.4	451.5	452.5
142.5°	472.4	472.0	471.6	470.8	469.8	468.7	467.6	466.6	467.6	468.7	469.8
145°	496.8	496.1	495.4	494.6	493.8	492.9	492.1	491.3	492.1	492.9	493.8
147.5°	519.0	518.5	518.0	517.3	516.3	515.3	514.3	513.3	514.3	515.3	516.3
150°	532.7	532.3	531.8	531.2	530.5	529.8	529.0	528.4	529.0	529.8	530.5
152.5°	546.3	545.7	545.2	544.5	543.8	543.1	542.4	541.7	542.4	543.1	543.8
155°	564.2	563.8	563.5	563.1	562.7	562.4	562.0	561.7	562.0	562.4	562.7
157.5°	580.4	580.1	579.9	579.8	579.5	579.2	579.0	578.7	579.0	579.2	579.5
160°	590.4	590.3	590.2	590.0	589.7	589.6	589.3	589.1	589.3	589.6	589.7
162.5°	599.1	598.9	598.8	598.7	598.7	598.6	598.6	598.5	598.6	598.6	598.7
165°	610.6	610.6	610.6	610.7	610.8	610.9	611.0	611.1	611.0	610.9	610.8
167.5°	620.0	620.0	620.0	620.2	620.6	620.9	621.3	621.6	621.3	620.9	620.6
170°	625.3	625.5	625.6	625.8	626.1	626.5	626.9	627.3	626.9	626.5	626.1
172.5°	629.2	629.3	629.4	629.7	630.0	630.4	630.7	631.1	630.7	630.4	630.0
175°	633.7	633.9	634.1	634.4	634.8	635.1	635.5	635.8	635.5	635.1	634.8
177.5°	636.0	636.2	636.4	636.6	636.9	637.2	637.4	637.8	637.4	637.2	636.9
180°	636.9	636.9	636.9	636.9	636.9	636.9	636.9	636.9	636.9	636.9	636.9



TEST NUMBER: P331295-830

CATALOG NUMBER: S122DIP-S485D530U830-4F0-1E-UDD-A1

**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	7.0	7.2	7.4	7.1	7.1	7.0	6.4	6.4
90°	6.3	8.3	10.9	13.6	16.2	18.9	18.6	18.4	18.1	17.8	17.8
92.5°	13.8	14.6	15.3	15.8	16.5	17.1	17.2	17.2	17.2	17.2	17.3
95°	32.7	33.5	33.6	33.9	34.1	34.4	34.4	34.4	34.4	34.4	34.3
97.5°	55.2	56.0	56.5	56.9	57.4	57.9	57.9	57.9	57.9	57.9	57.8
100°	72.1	72.8	73.1	73.4	73.8	74.2	74.2	74.2	74.2	74.2	74.1
102.5°	89.4	90.0	90.5	90.9	91.3	91.8	91.9	92.0	92.1	92.2	92.2
105°	117.0	117.3	117.5	117.7	118.0	118.3	118.5	118.8	118.9	119.2	119.3
107.5°	147.1	147.4	147.4	147.4	147.4	147.4	147.5	147.6	147.7	147.8	147.5
110°	166.8	167.1	167.1	167.1	167.1	167.1	167.1	167.1	167.1	167.1	167.0



TEST NUMBER: P331295-830

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	187.5	187.8	187.7	187.6	187.5	187.4	187.1	186.8	186.5	186.2	186.0
115°	217.8	218.1	217.8	217.6	217.4	217.2	217.1	216.9	216.8	216.7	216.4
117.5°	249.1	249.3	248.6	247.9	247.2	246.6	246.3	246.0	245.7	245.4	245.2
120°	269.4	269.4	268.3	267.4	266.5	265.5	265.5	265.5	265.5	265.5	265.3
122.5°	288.6	288.8	288.1	287.5	286.8	286.2	285.9	285.6	285.3	285.0	284.7
125°	317.1	317.4	317.1	316.8	316.4	316.0	315.7	315.3	315.0	314.6	314.3
127.5°	346.3	346.8	346.4	345.9	345.5	345.1	344.6	344.2	343.7	343.4	342.9
130°	364.7	365.3	365.1	364.9	364.7	364.4	364.2	363.9	363.7	363.4	363.1
132.5°	383.3	384.0	384.1	384.1	384.2	384.2	383.7	383.1	382.6	382.1	381.6
135°	410.0	410.8	410.9	411.2	411.5	411.7	411.6	411.5	411.3	411.2	410.9
137.5°	436.9	437.5	437.9	438.2	438.5	438.8	438.7	438.6	438.5	438.4	438.1
140°	453.6	454.5	455.1	455.6	456.3	456.9	456.9	456.9	456.9	456.9	456.7
142.5°	470.8	471.6	472.0	472.4	472.8	473.2	473.3	473.3	473.4	473.5	473.3
145°	494.6	495.4	496.1	496.8	497.6	498.2	498.3	498.5	498.6	498.7	498.5
147.5°	517.3	518.0	518.5	519.0	519.4	520.0	520.2	520.5	520.8	521.0	520.9
150°	531.2	531.8	532.3	532.7	533.2	533.8	534.0	534.4	534.8	535.2	535.2
152.5°	544.5	545.2	545.7	546.3	546.9	547.5	547.9	548.4	548.8	549.3	549.3
155°	563.1	563.5	563.8	564.2	564.5	564.9	565.5	566.1	566.7	567.3	567.4
157.5°	579.8	579.9	580.1	580.4	580.6	580.8	581.6	582.4	583.2	584.1	584.2
160°	590.0	590.2	590.3	590.4	590.6	590.7	591.4	592.1	592.9	593.5	593.7
162.5°	598.7	598.8	598.9	599.1	599.2	599.3	600.1	600.9	601.7	602.6	602.7
165°	610.7	610.6	610.6	610.6	610.6	610.6	611.4	612.3	613.1	613.9	614.1
167.5°	620.2	620.0	620.0	620.0	619.9	619.9	620.8	621.6	622.5	623.3	623.4
170°	625.8	625.6	625.5	625.3	625.2	625.1	625.9	626.8	627.6	628.4	628.5
172.5°	629.7	629.4	629.3	629.2	629.1	629.0	629.8	630.7	631.5	632.3	632.4
175°	634.4	634.1	633.9	633.7	633.4	633.1	634.0	634.8	635.7	636.5	636.6
177.5°	636.6	636.4	636.2	636.0	635.8	635.7	636.2	636.8	637.3	637.9	637.9
180°	636.9	636.9	636.9	636.9	636.9	636.9	636.9	636.9	636.9	636.9	636.9



TEST NUMBER: P331295-830

CATALOG NUMBER: S122DIP-S485D530U830-4F0-1E-UDD-A1

**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	5.9	6.1	6.1	6.4	6.4	6.4	7.0	7.1
90°	17.9	18.0	18.2	18.3	18.2	18.0	17.9	17.8	17.8	18.1	18.4
92.5°	17.3	17.3	17.4	17.4	17.4	17.3	17.3	17.3	17.2	17.2	17.2
95°	34.0	33.8	33.6	33.4	33.6	33.8	34.0	34.3	34.4	34.4	34.4
97.5°	57.8	57.8	57.8	57.7	57.8	57.8	57.8	57.8	57.9	57.9	57.9
100°	74.0	73.9	73.8	73.6	73.8	73.9	74.0	74.1	74.2	74.2	74.2
102.5°	92.1	91.9	91.8	91.7	91.8	91.9	92.1	92.2	92.2	92.1	92.0
105°	119.3	119.3	119.3	119.3	119.3	119.3	119.3	119.3	119.2	118.9	118.8
107.5°	146.9	146.5	145.9	145.3	145.9	146.5	146.9	147.5	147.8	147.7	147.6
110°	166.6	166.3	165.9	165.5	165.9	166.3	166.6	167.0	167.1	167.1	167.1



TEST NUMBER: P331295-830

CATALOG NUMBER: S122DIP-S485D530U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	185.7	185.4	185.1	184.9	185.1	185.4	185.7	186.0	186.2	186.5	186.8
115°	216.0	215.7	215.4	215.0	215.4	215.7	216.0	216.4	216.7	216.8	216.9
117.5°	244.8	244.4	244.0	243.6	244.0	244.4	244.8	245.2	245.4	245.7	246.0
120°	264.9	264.7	264.3	263.9	264.3	264.7	264.9	265.3	265.5	265.5	265.5
122.5°	284.5	284.2	284.0	283.7	284.0	284.2	284.5	284.7	285.0	285.3	285.6
125°	314.2	314.1	314.0	313.9	314.0	314.1	314.2	314.3	314.6	315.0	315.3
127.5°	342.5	342.1	341.8	341.4	341.8	342.1	342.5	342.9	343.4	343.7	344.2
130°	362.6	362.1	361.7	361.2	361.7	362.1	362.6	363.1	363.4	363.7	363.9
132.5°	381.3	380.9	380.5	380.1	380.5	380.9	381.3	381.6	382.1	382.6	383.1
135°	410.7	410.3	409.9	409.5	409.9	410.3	410.7	410.9	411.2	411.3	411.5
137.5°	437.6	437.2	436.7	436.2	436.7	437.2	437.6	438.1	438.4	438.5	438.6
140°	456.1	455.6	455.2	454.7	455.2	455.6	456.1	456.7	456.9	456.9	456.9
142.5°	472.9	472.4	471.9	471.5	471.9	472.4	472.9	473.3	473.5	473.4	473.3
145°	498.0	497.6	497.1	496.6	497.1	497.6	498.0	498.5	498.7	498.6	498.5
147.5°	520.5	520.0	519.5	519.1	519.5	520.0	520.5	520.9	521.0	520.8	520.5
150°	534.8	534.4	534.0	533.8	534.0	534.4	534.8	535.2	535.2	534.8	534.4
152.5°	548.8	548.4	547.9	547.5	547.9	548.4	548.8	549.3	549.3	548.8	548.4
155°	567.0	566.7	566.3	566.0	566.3	566.7	567.0	567.4	567.3	566.7	566.1
157.5°	583.6	583.1	582.5	581.8	582.5	583.1	583.6	584.2	584.1	583.2	582.4
160°	593.2	592.8	592.2	591.7	592.2	592.8	593.2	593.7	593.5	592.9	592.1
162.5°	602.1	601.5	601.0	600.4	601.0	601.5	602.1	602.7	602.6	601.7	600.9
165°	613.4	612.8	612.3	611.6	612.3	612.8	613.4	614.1	613.9	613.1	612.3
167.5°	622.7	622.2	621.5	620.9	621.5	622.2	622.7	623.4	623.3	622.5	621.6
170°	627.7	627.1	626.3	625.7	626.3	627.1	627.7	628.5	628.4	627.6	626.8
172.5°	631.7	630.9	630.2	629.5	630.2	630.9	631.7	632.4	632.3	631.5	630.7
175°	635.8	635.1	634.4	633.7	634.4	635.1	635.8	636.6	636.5	635.7	634.8
177.5°	637.3	636.8	636.2	635.7	636.2	636.8	637.3	637.9	637.9	637.3	636.8
180°	636.9	636.9	636.9	636.9	636.9	636.9	636.9	636.9	636.9	636.9	636.9



TEST NUMBER: P331295-830

CATALOG NUMBER: S122DIP-S485D530U830-4F0-1E-UDD-A1

**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°	7.1	7.4	7.2	7.0	6.4	6.1	6.0	6.0	6.3	6.3	6.3
90°	18.6	18.9	16.2	13.6	10.9	8.3	6.3	4.8	3.4	2.0	0.6
92.5°	17.2	17.1	16.5	15.8	15.3	14.6	13.8	12.7	11.7	10.7	9.6
95°	34.4	34.4	34.1	33.9	33.6	33.5	32.7	31.6	30.3	29.1	28.0
97.5°	57.9	57.9	57.4	56.9	56.5	56.0	55.2	54.2	53.2	52.1	51.1
100°	74.2	74.2	73.8	73.4	73.1	72.8	72.1	71.2	70.1	69.2	68.2
102.5°	91.9	91.8	91.3	90.9	90.5	90.0	89.4	88.6	87.8	87.1	86.3
105°	118.5	118.3	118.0	117.7	117.5	117.3	117.0	116.6	116.3	115.9	115.6
107.5°	147.5	147.4	147.4	147.4	147.4	147.4	147.1	146.6	146.1	145.5	145.1
110°	167.1	167.1	167.1	167.1	167.1	167.1	166.8	166.1	165.3	164.7	163.9



TEST NUMBER: P331295-830

CATALOG NUMBER: S122DIP-S485D530U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	187.1	187.4	187.5	187.6	187.7	187.8	187.5	186.7	186.0	185.3	184.5
115°	217.1	217.2	217.4	217.6	217.8	218.1	217.8	217.2	216.4	215.7	215.0
117.5°	246.3	246.6	247.2	247.9	248.6	249.3	249.1	248.2	247.2	246.3	245.3
120°	265.5	265.5	266.5	267.4	268.3	269.4	269.4	268.3	267.4	266.5	265.5
122.5°	285.9	286.2	286.8	287.5	288.1	288.8	288.6	287.5	286.3	285.1	284.0
125°	315.7	316.0	316.4	316.8	317.1	317.4	317.1	316.0	315.0	313.9	312.8
127.5°	344.6	345.1	345.5	345.9	346.4	346.8	346.3	345.0	343.6	342.2	340.8
130°	364.2	364.4	364.7	364.9	365.1	365.3	364.7	363.2	361.6	360.1	358.5
132.5°	383.7	384.2	384.2	384.1	384.1	384.0	383.3	382.1	380.8	379.6	378.2
135°	411.6	411.7	411.5	411.2	410.9	410.8	410.0	408.7	407.4	406.0	404.7
137.5°	438.7	438.8	438.5	438.2	437.9	437.5	436.9	435.8	434.7	433.7	432.5
140°	456.9	456.9	456.3	455.6	455.1	454.5	453.6	452.5	451.5	450.4	449.3
142.5°	473.3	473.2	472.8	472.4	472.0	471.6	470.8	469.8	468.7	467.6	466.6
145°	498.3	498.2	497.6	496.8	496.1	495.4	494.6	493.8	492.9	492.1	491.3
147.5°	520.2	520.0	519.4	519.0	518.5	518.0	517.3	516.3	515.3	514.3	513.3
150°	534.0	533.8	533.2	532.7	532.3	531.8	531.2	530.5	529.8	529.0	528.4
152.5°	547.9	547.5	546.9	546.3	545.7	545.2	544.5	543.8	543.1	542.4	541.7
155°	565.5	564.9	564.5	564.2	563.8	563.5	563.1	562.7	562.4	562.0	561.7
157.5°	581.6	580.8	580.6	580.4	580.1	579.9	579.8	579.5	579.2	579.0	578.7
160°	591.4	590.7	590.6	590.4	590.3	590.2	590.0	589.7	589.6	589.3	589.1
162.5°	600.1	599.3	599.2	599.1	598.9	598.8	598.7	598.7	598.6	598.6	598.5
165°	611.4	610.6	610.6	610.6	610.6	610.6	610.7	610.8	610.9	611.0	611.1
167.5°	620.8	619.9	619.9	620.0	620.0	620.0	620.2	620.6	620.9	621.3	621.6
170°	625.9	625.1	625.2	625.3	625.5	625.6	625.8	626.1	626.5	626.9	627.3
172.5°	629.8	629.0	629.1	629.2	629.3	629.4	629.7	630.0	630.4	630.7	631.1
175°	634.0	633.1	633.4	633.7	633.9	634.1	634.4	634.8	635.1	635.5	635.8
177.5°	636.2	635.7	635.8	636.0	636.2	636.4	636.6	636.9	637.2	637.4	637.8
180°	636.9	636.9	636.9	636.9	636.9	636.9	636.9	636.9	636.9	636.9	636.9



TEST NUMBER: P331295-830

CATALOG NUMBER: S122DIP-S485D530U830-4F0-1E-UDD-A1

**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	8.9	9.1	10.3	10.1	10.7	11.1	11.4	11.7	11.3	11.0
90°	2.0	3.4	4.8	6.3	8.3	10.9	13.6	16.2	18.9	18.6	18.4
92.5°	10.7	11.7	12.7	13.8	14.6	15.3	15.8	16.5	17.1	17.2	17.2
95°	29.1	30.3	31.6	32.7	33.5	33.6	33.9	34.1	34.4	34.4	34.4
97.5°	52.1	53.2	54.2	55.2	56.0	56.5	56.9	57.4	57.9	57.9	57.9
100°	69.2	70.1	71.2	72.1	72.8	73.1	73.4	73.8	74.2	74.2	74.2
102.5°	87.1	87.8	88.6	89.4	90.0	90.5	90.9	91.3	91.8	91.9	92.0
105°	115.9	116.3	116.6	117.0	117.3	117.5	117.7	118.0	118.3	118.5	118.8
107.5°	145.5	146.1	146.6	147.1	147.4	147.4	147.4	147.4	147.4	147.5	147.6
110°	164.7	165.3	166.1	166.8	167.1	167.1	167.1	167.1	167.1	167.1	167.1





TEST NUMBER: P331295-830

CATALOG NUMBER: S122DIP-S485D530U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	185.3	186.0	186.7	187.5	187.8	187.7	187.6	187.5	187.4	187.1	186.8
115°	215.7	216.4	217.2	217.8	218.1	217.8	217.6	217.4	217.2	217.1	216.9
117.5°	246.3	247.2	248.2	249.1	249.3	248.6	247.9	247.2	246.6	246.3	246.0
120°	266.5	267.4	268.3	269.4	269.4	268.3	267.4	266.5	265.5	265.5	265.5
122.5°	285.1	286.3	287.5	288.6	288.8	288.1	287.5	286.8	286.2	285.9	285.6
125°	313.9	315.0	316.0	317.1	317.4	317.1	316.8	316.4	316.0	315.7	315.3
127.5°	342.2	343.6	345.0	346.3	346.8	346.4	345.9	345.5	345.1	344.6	344.2
130°	360.1	361.6	363.2	364.7	365.3	365.1	364.9	364.7	364.4	364.2	363.9
132.5°	379.6	380.8	382.1	383.3	384.0	384.1	384.1	384.2	384.2	383.7	383.1
135°	406.0	407.4	408.7	410.0	410.8	410.9	411.2	411.5	411.7	411.6	411.5
137.5°	433.7	434.7	435.8	436.9	437.5	437.9	438.2	438.5	438.8	438.7	438.6
140°	450.4	451.5	452.5	453.6	454.5	455.1	455.6	456.3	456.9	456.9	456.9
142.5°	467.6	468.7	469.8	470.8	471.6	472.0	472.4	472.8	473.2	473.3	473.3
145°	492.1	492.9	493.8	494.6	495.4	496.1	496.8	497.6	498.2	498.3	498.5
147.5°	514.3	515.3	516.3	517.3	518.0	518.5	519.0	519.4	520.0	520.2	520.5
150°	529.0	529.8	530.5	531.2	531.8	532.3	532.7	533.2	533.8	534.0	534.4
152.5°	542.4	543.1	543.8	544.5	545.2	545.7	546.3	546.9	547.5	547.9	548.4
155°	562.0	562.4	562.7	563.1	563.5	563.8	564.2	564.5	564.9	565.5	566.1
157.5°	579.0	579.2	579.5	579.8	579.9	580.1	580.4	580.6	580.8	581.6	582.4
160°	589.3	589.6	589.7	590.0	590.2	590.3	590.4	590.6	590.7	591.4	592.1
162.5°	598.6	598.6	598.7	598.7	598.8	598.9	599.1	599.2	599.3	600.1	600.9
165°	611.0	610.9	610.8	610.7	610.6	610.6	610.6	610.6	610.6	611.4	612.3
167.5°	621.3	620.9	620.6	620.2	620.0	620.0	620.0	619.9	619.9	620.8	621.6
170°	626.9	626.5	626.1	625.8	625.6	625.5	625.3	625.2	625.1	625.9	626.8
172.5°	630.7	630.4	630.0	629.7	629.4	629.3	629.2	629.1	629.0	629.8	630.7
175°	635.5	635.1	634.8	634.4	634.1	633.9	633.7	633.4	633.1	634.0	634.8
177.5°	637.4	637.2	636.9	636.6	636.4	636.2	636.0	635.8	635.7	636.2	636.8
180°	636.9	636.9	636.9	636.9	636.9	636.9	636.9	636.9	636.9	636.9	636.9



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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°	11.2	11.2	10.8	10.9	11.2	10.9	10.9
90°	18.1	17.8	17.8	17.9	18.0	18.2	18.3
92.5°	17.2	17.2	17.3	17.3	17.3	17.4	17.4
95°	34.4	34.4	34.3	34.0	33.8	33.6	33.4
97.5°	57.9	57.9	57.8	57.8	57.8	57.8	57.7
100°	74.2	74.2	74.1	74.0	73.9	73.8	73.6
102.5°	92.1	92.2	92.2	92.1	91.9	91.8	91.7
105°	118.9	119.2	119.3	119.3	119.3	119.3	119.3
107.5°	147.7	147.8	147.5	146.9	146.5	145.9	145.3
110°	167.1	167.1	167.0	166.6	166.3	165.9	165.5



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	186.5	186.2	186.0	185.7	185.4	185.1	184.9
115°	216.8	216.7	216.4	216.0	215.7	215.4	215.0
117.5°	245.7	245.4	245.2	244.8	244.4	244.0	243.6
120°	265.5	265.5	265.3	264.9	264.7	264.3	263.9
122.5°	285.3	285.0	284.7	284.5	284.2	284.0	283.7
125°	315.0	314.6	314.3	314.2	314.1	314.0	313.9
127.5°	343.7	343.4	342.9	342.5	342.1	341.8	341.4
130°	363.7	363.4	363.1	362.6	362.1	361.7	361.2
132.5°	382.6	382.1	381.6	381.3	380.9	380.5	380.1
135°	411.3	411.2	410.9	410.7	410.3	409.9	409.5
137.5°	438.5	438.4	438.1	437.6	437.2	436.7	436.2
140°	456.9	456.9	456.7	456.1	455.6	455.2	454.7
142.5°	473.4	473.5	473.3	472.9	472.4	471.9	471.5
145°	498.6	498.7	498.5	498.0	497.6	497.1	496.6
147.5°	520.8	521.0	520.9	520.5	520.0	519.5	519.1
150°	534.8	535.2	535.2	534.8	534.4	534.0	533.8
152.5°	548.8	549.3	549.3	548.8	548.4	547.9	547.5
155°	566.7	567.3	567.4	567.0	566.7	566.3	566.0
157.5°	583.2	584.1	584.2	583.6	583.1	582.5	581.8
160°	592.9	593.5	593.7	593.2	592.8	592.2	591.7
162.5°	601.7	602.6	602.7	602.1	601.5	601.0	600.4
165°	613.1	613.9	614.1	613.4	612.8	612.3	611.6
167.5°	622.5	623.3	623.4	622.7	622.2	621.5	620.9
170°	627.6	628.4	628.5	627.7	627.1	626.3	625.7
172.5°	631.5	632.3	632.4	631.7	630.9	630.2	629.5
175°	635.7	636.5	636.6	635.8	635.1	634.4	633.7
177.5°	637.3	637.9	637.9	637.3	636.8	636.2	635.7
180°	636.9	636.9	636.9	636.9	636.9	636.9	636.9

(END OF REPORT)