

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: P331287

Luminaire Tested: **S122DIP-S485D330U835-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331287  
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-S485D330U835-4F0-1E-UDD-A4  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 485 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 330 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3424.0 lumens  
Efficiency: N/A  
Efficacy: 124.5 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-Direct

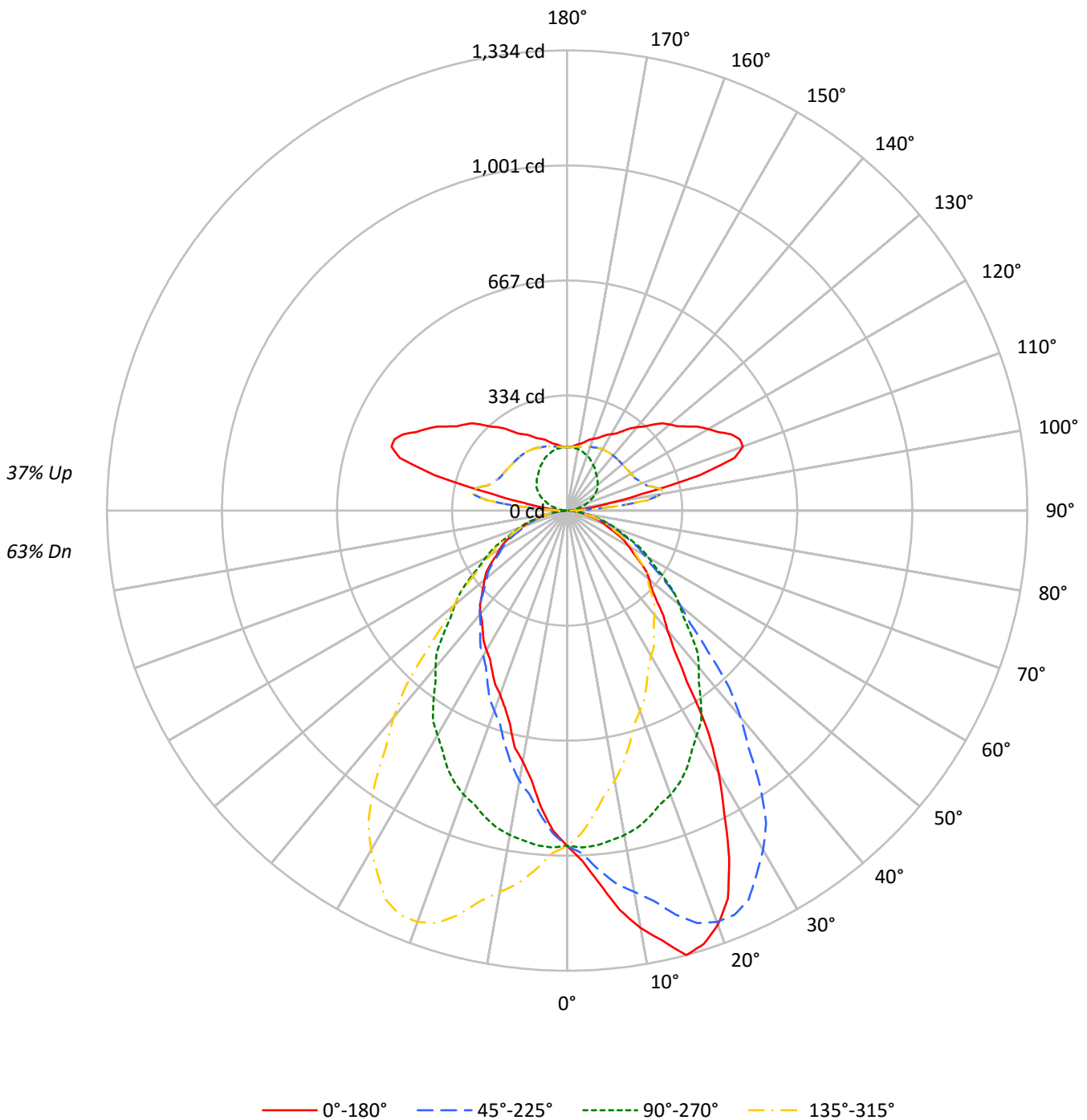
Input Watts (W): 27.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	110	110	110	110	103	103	103	103	90	90	90	79	79	79	68	68	68	63
1	101	97	93	90	95	91	88	85	80	78	76	70	68	67	61	60	58	54
2	93	85	79	74	87	80	75	71	71	67	64	62	59	57	54	52	50	46
3	85	76	69	63	79	71	65	60	63	58	54	56	52	49	49	46	43	40
4	78	67	60	54	73	64	57	51	57	51	47	50	46	42	44	41	38	35
5	72	60	52	47	67	57	50	45	51	45	41	45	41	37	40	36	33	31
6	67	55	47	41	62	52	44	39	46	40	36	41	36	33	36	33	30	27
7	62	50	42	36	58	47	40	35	42	36	32	38	33	29	33	30	27	24
8	57	45	38	32	54	43	36	31	39	33	29	35	30	26	31	27	24	22
9	54	42	34	29	50	39	33	28	36	30	26	32	27	24	29	25	22	20
10	50	38	31	26	47	36	30	25	33	27	24	30	25	22	27	23	20	18

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	15689	15689	15689	15689
5°	17590	15793	13994	15793
10°	20156	15662	12111	15662
15°	22298	15375	10700	15375
20°	21959	15067	9754	15067
25°	19800	14656	9155	14656
30°	16362	14001	8718	14001
35°	11925	13316	8406	13316
40°	9525	12507	8233	12507
45°	8323	11572	7999	11572
50°	7824	10665	7842	10665
55°	7212	9745	7631	9745
60°	6610	8767	7308	8767
65°	6021	7889	6991	7889
70°	5467	7034	6524	7034
75°	4847	6082	5777	6082
80°	4166	5040	4649	5040
85°	3742	3742	2760	3742



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.5	2.7
10°-20°	269.0	7.9
20°-30°	390.5	11.4
30°-40°	412.0	12.0
40°-50°	364.8	10.7
50°-60°	291.1	8.5
60°-70°	197.9	5.8
70°-80°	101.5	3.0
80°-90°	26.1	0.8
90°-100°	73.5	2.1
100°-110°	249.3	7.3
110°-120°	264.8	7.7
120°-130°	218.0	6.4
130°-140°	175.1	5.1
140°-150°	132.3	3.9
150°-160°	93.0	2.7
160°-170°	54.7	1.6
170°-180°	17.8	0.5
0°-30°	752.0	22.0
0°-40°	1164.1	34.0
0°-60°	1820.1	53.2
0°-90°	2145.5	62.7
90°-120°	587.6	17.2
90°-150°	1113.0	32.5
90°-180°	1279.0	37.4
0°-180°	3424.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	972	972	972	972	972	
5°	1085	974	863	974	1085	108
15°	1334	920	640	920	1334	368
25°	1111	823	514	823	1111	502
35°	605	676	426	676	605	393
45°	364	507	350	507	364	287
55°	256	346	271	346	256	230
65°	158	206	183	206	158	157
75°	78	98	93	98	78	83
85°	20	20	15	20	20	22
90°	12	0	12	0	12	7
95°	40	12	40	12	40	52
105°	398	43	398	43	398	385
115°	524	76	524	76	524	513
125°	425	106	425	106	425	384
135°	352	124	352	124	352	274
145°	281	142	281	142	281	179
155°	236	162	236	162	236	110
165°	207	176	207	176	207	59
175°	187	183	187	183	187	18
180°	184	184	184	184	184	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7
2.5°	1016.6	1016.9	1017.4	1012.7	1012.1	1012.1	1007.9	1004.3	1000.1	994.4	995.0
5°	1085.3	1089.4	1090.9	1086.4	1079.7	1078.9	1072.6	1062.1	1052.4	1044.6	1039.0
7.5°	1167.3	1168.9	1165.3	1159.4	1154.4	1145.4	1133.6	1122.0	1105.8	1090.9	1079.9
10°	1229.4	1231.7	1225.3	1216.7	1209.6	1199.2	1182.0	1164.4	1143.2	1122.6	1106.2
12.5°	1276.6	1282.2	1274.0	1272.9	1260.7	1246.4	1225.9	1217.0	1187.1	1158.5	1140.8
15°	1334.0	1333.6	1334.4	1327.3	1318.3	1316.1	1294.4	1270.9	1228.7	1211.9	1182.7
17.5°	1317.4	1323.1	1325.7	1325.6	1325.4	1324.0	1317.0	1302.2	1281.0	1253.8	1220.2
20°	1278.0	1285.4	1286.6	1295.2	1300.0	1306.4	1309.0	1304.9	1291.8	1269.0	1239.9
22.5°	1217.0	1219.1	1222.6	1236.0	1246.5	1262.4	1270.7	1284.5	1279.5	1268.4	1244.1
25°	1111.4	1107.7	1120.7	1127.5	1151.7	1177.1	1195.4	1215.6	1233.5	1244.4	1237.3
27.5°	984.6	979.0	998.6	1016.4	1036.1	1063.6	1092.1	1125.8	1153.8	1188.9	1200.9
30°	877.6	881.0	899.7	918.7	948.6	987.4	1019.5	1056.5	1096.5	1135.7	1162.9
32.5°	762.3	775.2	787.0	816.2	842.5	885.8	932.9	979.1	1029.0	1073.5	1115.7
35°	605.0	619.9	636.4	657.7	694.6	737.6	783.5	845.9	913.9	974.7	1024.8
37.5°	509.2	506.9	516.3	531.7	561.6	596.3	649.1	710.8	790.8	862.3	932.9
40°	451.9	450.4	457.1	471.3	494.1	519.5	565.8	619.9	694.3	781.6	865.7
42.5°	412.4	413.3	417.1	427.1	442.7	463.6	498.3	544.4	612.4	694.7	785.0
45°	364.5	367.1	371.2	376.1	385.0	402.2	421.6	454.5	508.3	577.0	665.9
47.5°	330.0	330.1	334.2	338.5	343.8	353.5	369.4	390.0	427.9	483.9	560.3
50°	311.5	308.8	311.8	315.2	320.8	327.5	338.0	357.4	382.8	428.0	491.8
52.5°	288.8	288.8	291.5	292.8	297.8	304.5	314.1	327.5	350.5	385.9	438.4
55°	256.2	258.1	259.6	261.8	266.3	271.1	278.6	287.6	305.5	332.0	370.8
57.5°	225.6	226.2	227.7	231.9	234.8	239.2	246.3	254.5	266.1	285.8	315.0
60°	204.7	204.7	207.6	209.5	213.2	217.7	223.3	231.2	241.6	257.7	281.2
62.5°	185.5	185.2	186.4	189.5	192.3	196.5	202.1	208.8	218.6	232.9	252.2
65°	157.6	156.9	159.1	159.8	162.8	166.9	171.4	178.5	186.4	196.8	214.0
67.5°	130.7	131.6	132.8	134.2	135.9	140.2	143.2	148.2	154.8	163.5	175.2
70°	115.8	115.8	115.8	116.9	119.1	121.4	124.4	128.5	134.8	142.3	152.7
72.5°	99.0	100.2	101.4	100.8	103.6	104.9	108.5	110.8	116.9	121.7	130.9
75°	77.7	77.7	77.7	79.5	80.7	81.8	84.0	86.3	89.3	95.2	100.1
77.5°	58.0	57.8	58.2	58.6	59.8	61.2	61.8	63.9	66.6	69.4	73.5
80°	44.8	45.6	45.9	46.7	46.7	47.4	47.8	50.4	52.3	54.2	56.8
82.5°	34.7	34.8	34.9	35.0	35.3	35.8	36.7	37.6	38.2	39.8	41.8
85°	20.2	19.8	19.8	20.5	20.2	20.2	20.9	21.7	21.7	22.0	23.2
87.5°	10.1	10.1	10.4	10.1	10.1	10.3	10.2	10.0	10.4	10.8	11.0
90°	11.7	11.7	11.7	11.7	11.7	11.3	10.6	11.3	11.7	12.0	11.7
92.5°	19.6	20.1	19.9	21.0	21.3	23.5	26.4	30.8	38.8	45.9	45.3
95°	40.3	39.9	41.0	43.8	48.4	56.2	71.0	92.6	121.2	138.5	122.6
97.5°	79.3	82.3	87.4	96.1	113.0	138.5	176.7	216.0	248.0	236.4	178.1
100°	126.5	132.9	143.1	158.3	187.6	230.4	278.8	322.6	330.0	279.1	192.2
102.5°	222.6	231.2	244.0	269.9	301.8	347.1	382.5	392.4	360.5	280.5	186.8
105°	398.2	403.1	418.3	440.2	462.2	473.8	469.2	429.3	355.8	261.8	176.3
107.5°	508.7	515.2	518.3	519.5	516.7	499.6	462.9	402.7	324.8	241.7	171.1
110°	542.0	542.4	539.2	532.5	517.3	488.3	443.1	379.8	305.3	232.1	170.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	541.4	539.5	533.5	522.3	501.2	467.9	419.6	358.9	291.7	225.9	170.2
115°	524.0	520.8	511.6	495.4	470.3	433.9	387.6	333.2	274.9	219.1	171.7
117.5°	492.8	490.1	480.5	463.3	437.7	403.6	361.6	313.8	264.3	215.7	174.3
120°	472.8	469.2	459.0	442.4	417.6	385.5	348.0	304.2	258.6	213.8	176.0
122.5°	451.8	448.9	439.8	423.4	401.2	372.2	336.7	296.6	253.8	212.6	177.9
125°	425.1	422.2	413.4	400.0	379.5	353.0	321.9	285.5	247.0	210.6	180.9
127.5°	401.6	399.3	391.7	379.1	361.2	336.8	307.5	274.5	240.6	209.4	183.9
130°	388.3	385.5	378.4	366.4	349.1	325.8	297.9	267.5	236.4	208.8	186.2
132.5°	374.5	371.9	365.4	353.4	336.4	314.5	288.8	260.7	233.0	208.5	188.5
135°	352.3	350.9	344.5	332.8	317.6	297.9	274.5	251.2	228.2	208.1	191.2
137.5°	330.5	328.4	322.8	312.8	298.9	281.7	263.2	243.7	224.9	208.0	193.6
140°	315.5	313.4	308.1	298.9	287.6	272.1	255.8	238.8	222.9	207.8	194.7
142.5°	300.5	300.1	295.4	287.0	276.3	263.3	249.3	234.9	221.0	207.8	195.5
145°	281.2	280.2	276.7	270.6	262.2	251.9	241.0	229.3	218.4	207.0	196.4
147.5°	265.1	264.4	262.0	257.2	250.2	242.7	234.2	225.0	215.7	205.8	196.7
150°	255.5	255.1	253.0	248.7	243.4	237.1	229.7	221.9	213.4	204.9	196.4
152.5°	247.3	247.2	245.6	242.0	237.8	232.3	226.0	218.8	211.4	203.5	195.9
155°	236.4	237.1	235.7	233.2	229.3	225.4	220.1	214.5	207.8	201.0	195.0
157.5°	227.1	227.1	226.5	224.4	221.7	218.6	214.2	209.5	204.3	198.5	193.4
160°	221.2	221.2	220.8	219.1	216.6	214.1	210.2	206.3	201.7	196.8	192.6
162.5°	215.5	215.8	215.5	214.3	211.8	209.9	206.6	203.2	199.5	195.4	191.7
165°	207.4	207.8	207.8	206.3	204.9	203.5	201.0	198.6	195.7	192.6	190.1
167.5°	199.9	200.3	200.4	199.6	199.0	197.7	196.0	194.1	192.1	190.1	188.5
170°	195.4	196.1	196.4	195.4	195.0	194.3	192.9	191.9	190.1	188.7	187.6
172.5°	191.7	192.1	192.5	192.0	191.6	191.2	190.1	189.3	188.1	187.0	186.5
175°	186.9	187.6	188.0	187.6	187.6	187.3	186.9	186.6	185.5	185.1	184.8
177.5°	184.0	184.6	184.9	184.9	184.9	184.9	184.6	184.6	184.0	183.7	184.0
180°	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7
2.5°	997.1	994.7	993.2	987.9	983.1	978.3	976.8	977.4	970.8	964.6	961.9
5°	1036.0	1028.5	1021.4	1011.3	999.4	986.3	979.6	974.4	961.3	947.1	938.9
7.5°	1070.8	1060.1	1046.4	1027.5	1010.1	989.5	976.4	964.9	945.7	925.7	913.5
10°	1092.0	1077.4	1059.9	1036.7	1015.4	990.4	972.9	955.3	932.9	909.0	894.1
12.5°	1110.2	1090.6	1073.3	1043.6	1018.4	987.1	966.3	941.6	918.0	889.6	874.9
15°	1153.6	1117.4	1084.5	1050.9	1019.9	976.2	953.1	919.8	888.8	853.7	836.9
17.5°	1187.1	1146.4	1094.7	1052.0	1015.8	967.4	933.4	893.6	856.9	816.8	794.0
20°	1206.3	1159.6	1103.9	1053.2	1009.8	954.6	917.6	876.9	833.9	788.7	764.1
22.5°	1217.6	1168.6	1113.5	1048.7	997.9	944.1	897.6	853.0	809.4	760.7	734.8
25°	1221.2	1176.4	1118.1	1044.9	982.9	922.1	866.0	822.7	770.1	724.5	686.8
27.5°	1203.4	1171.3	1115.3	1037.9	965.7	894.5	832.1	783.0	727.4	678.0	640.0
30°	1181.6	1162.9	1108.4	1030.7	951.9	875.4	806.7	751.0	695.8	645.7	606.9
32.5°	1147.9	1143.8	1095.9	1020.6	937.3	851.2	780.1	723.8	662.6	613.4	576.4
35°	1081.5	1099.5	1069.2	997.9	909.7	816.8	739.8	675.6	612.1	565.0	530.3
37.5°	992.7	1037.2	1029.3	964.6	872.5	779.3	694.3	627.2	566.7	519.2	485.1
40°	931.4	988.2	996.4	939.2	846.3	750.3	660.3	593.4	534.4	491.1	456.7
42.5°	865.7	932.0	954.6	908.8	817.6	719.8	629.8	560.6	502.2	460.0	429.6
45°	755.5	843.3	884.0	857.8	769.7	669.6	577.0	506.8	453.8	414.2	390.6
47.5°	652.5	748.4	803.2	793.9	716.4	617.3	525.8	458.4	406.8	375.2	354.1
50°	579.6	678.2	744.3	747.3	678.2	580.0	488.1	424.6	377.2	347.7	330.5
52.5°	516.3	610.4	682.5	698.3	635.5	541.1	454.3	391.2	349.4	322.3	306.9
55°	433.6	513.1	593.1	622.2	571.8	482.1	401.8	346.2	307.0	288.3	274.9
57.5°	360.5	426.8	500.6	532.8	501.7	425.0	349.7	301.4	269.6	253.2	242.9
60°	321.9	374.2	439.9	478.4	451.5	383.2	317.4	271.5	245.4	230.8	221.1
62.5°	286.1	332.4	387.9	423.1	408.5	344.0	285.2	244.6	222.1	208.4	201.4
65°	236.0	272.6	315.6	348.1	338.4	289.4	241.3	206.5	188.6	177.8	172.2
67.5°	194.3	220.8	250.6	279.0	271.2	236.5	197.9	170.8	157.4	148.1	144.8
70°	168.1	188.2	214.7	237.5	231.2	202.8	172.2	149.0	137.4	129.6	126.2
72.5°	143.0	159.5	179.8	198.4	194.1	170.5	145.0	127.5	118.6	111.4	108.6
75°	107.9	120.6	133.0	145.3	144.2	125.9	110.9	97.5	90.4	84.8	83.7
77.5°	79.7	86.8	95.2	102.5	100.5	90.0	78.3	70.6	65.4	61.6	61.0
80°	60.9	65.0	71.0	76.2	73.6	69.1	59.8	54.2	50.4	46.7	45.2
82.5°	44.1	48.3	51.8	54.7	52.7	48.5	42.7	38.9	36.7	34.1	33.5
85°	23.2	25.4	26.9	27.6	26.9	24.3	21.7	20.2	18.3	17.2	16.8
87.5°	10.9	10.4	10.0	10.4	9.4	9.2	7.8	6.6	6.6	6.5	6.1
90°	9.5	7.1	5.3	4.2	3.5	2.8	1.4	0.4	1.4	2.8	3.5
92.5°	35.3	24.0	16.0	12.7	10.3	8.8	6.2	4.3	6.2	8.8	10.3
95°	81.6	50.9	34.6	26.1	20.5	17.3	13.8	12.4	13.8	17.3	20.5
97.5°	110.0	67.1	46.7	37.1	30.6	25.8	22.0	20.1	22.0	25.8	30.6
100°	115.9	72.8	54.1	44.2	37.1	31.4	28.3	27.2	28.3	31.4	37.1
102.5°	116.2	77.9	60.6	50.7	43.3	37.7	34.5	33.7	34.5	37.7	43.3
105°	118.0	86.6	70.0	60.1	52.3	47.0	44.5	43.1	44.5	47.0	52.3
107.5°	122.9	95.5	79.4	69.4	61.7	56.8	54.4	53.3	54.4	56.8	61.7
110°	126.8	101.4	85.9	75.6	68.2	63.6	61.5	60.1	61.5	63.6	68.2





TEST NUMBER: P331287

CATALOG NUMBER: S122DIP-S485D330U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	131.1	107.1	92.1	81.5	74.4	70.1	67.7	66.3	67.7	70.1	74.4
115°	137.4	115.9	100.7	91.2	84.1	79.9	77.7	76.0	77.7	79.9	84.1
117.5°	144.2	124.0	110.0	100.1	93.3	89.5	87.4	86.0	87.4	89.5	93.3
120°	148.8	129.7	115.9	106.0	98.9	95.8	93.6	92.2	93.6	95.8	98.9
122.5°	152.7	135.0	122.1	111.9	104.9	101.4	99.3	98.2	99.3	101.4	104.9
125°	159.0	143.1	130.4	120.5	113.4	109.2	107.1	106.0	107.1	109.2	113.4
127.5°	164.9	150.6	138.2	128.0	121.3	116.6	113.6	112.2	113.6	116.6	121.3
130°	168.5	155.1	142.7	132.9	125.8	120.8	117.3	115.9	117.3	120.8	125.8
132.5°	172.2	159.1	147.3	137.4	130.0	124.8	121.0	119.3	121.0	124.8	130.0
135°	177.0	164.7	153.3	143.5	135.3	130.0	125.8	124.4	125.8	130.0	135.3
137.5°	180.7	169.2	158.0	148.8	140.8	135.1	130.9	129.2	130.9	135.1	140.8
140°	182.7	171.7	161.1	151.9	144.2	138.5	134.3	132.9	134.3	138.5	144.2
142.5°	184.4	173.7	163.4	154.8	147.3	141.6	137.7	136.5	137.7	141.6	147.3
145°	186.6	176.7	167.1	159.4	152.3	147.0	143.5	142.0	143.5	147.0	152.3
147.5°	187.8	179.1	170.1	163.2	157.3	152.4	149.0	148.0	149.0	152.4	157.3
150°	188.3	180.2	172.1	165.7	160.4	155.8	153.0	151.9	153.0	155.8	160.4
152.5°	188.6	181.3	174.0	168.3	163.2	159.2	156.4	155.9	156.4	159.2	163.2
155°	189.0	183.0	177.0	171.7	167.8	163.9	161.8	161.5	161.8	163.9	167.8
157.5°	189.0	184.2	179.1	174.7	171.6	168.2	166.5	166.1	166.5	168.2	171.6
160°	189.0	184.8	180.6	176.7	173.8	171.0	169.6	169.2	169.6	171.0	173.8
162.5°	188.7	185.1	181.4	178.4	175.8	173.6	172.1	172.4	172.1	173.6	175.8
165°	188.0	185.5	182.3	180.2	178.4	176.3	175.6	176.0	175.6	176.3	178.4
167.5°	187.5	185.4	183.1	181.8	180.5	179.1	178.5	178.9	178.5	179.1	180.5
170°	186.9	185.1	183.4	182.3	181.6	180.6	180.2	180.9	180.2	180.6	181.6
172.5°	186.1	184.9	183.7	182.9	182.5	181.4	181.6	182.0	181.6	181.4	182.5
175°	185.1	184.4	183.7	183.4	183.4	182.7	183.0	183.4	183.0	182.7	183.4
177.5°	184.6	184.0	183.7	183.7	183.7	183.2	183.4	184.0	183.4	183.2	183.7
180°	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7



TEST NUMBER: P331287

CATALOG NUMBER: S122DIP-S485D330U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7
2.5°	958.9	957.1	950.8	947.5	942.2	937.1	933.8	935.3	936.5	935.9	935.0
5°	931.4	924.3	913.5	904.1	897.4	885.1	879.9	877.3	875.0	872.4	869.8
7.5°	898.7	887.5	872.0	858.7	846.1	830.8	822.1	816.8	811.4	805.5	800.3
10°	875.4	859.7	843.3	824.6	809.7	795.8	783.5	775.3	767.8	760.7	755.5
12.5°	850.9	832.8	812.5	787.0	770.5	750.7	748.9	734.4	722.7	718.3	712.2
15°	811.9	786.5	760.7	730.5	717.4	699.5	688.3	677.1	667.0	659.9	658.0
17.5°	767.6	734.7	709.1	687.4	666.0	647.6	637.3	628.3	620.0	610.5	609.3
20°	733.8	705.5	677.5	658.4	636.4	617.7	605.0	596.0	588.9	583.3	578.5
22.5°	701.9	670.8	645.2	624.3	602.6	587.5	577.5	568.9	563.0	556.8	552.2
25°	650.6	626.3	598.3	574.8	556.8	547.1	538.9	531.4	527.7	523.6	518.4
27.5°	605.7	578.7	552.5	534.3	518.5	509.9	504.1	499.0	495.5	493.1	490.1
30°	574.0	546.7	526.2	508.3	495.2	486.6	482.9	479.9	475.8	474.3	472.8
32.5°	543.5	519.0	501.4	485.9	473.4	467.8	464.4	461.7	458.5	457.0	454.0
35°	500.4	479.9	462.7	454.1	444.0	439.2	436.6	432.8	429.9	428.4	428.0
37.5°	459.9	442.0	430.7	419.7	415.4	412.4	408.9	406.3	405.4	405.2	404.8
40°	433.6	419.0	408.9	400.0	398.1	393.6	390.6	388.4	388.4	388.8	388.4
42.5°	409.7	396.6	387.7	380.0	377.8	375.1	372.1	372.0	372.6	373.8	372.6
45°	373.5	364.1	357.8	354.0	349.9	347.3	346.9	348.1	348.4	348.8	349.9
47.5°	340.1	333.9	328.2	324.1	322.3	321.8	321.4	323.3	325.1	325.8	327.5
50°	320.4	313.3	308.5	305.9	304.4	303.6	304.4	306.6	308.1	310.0	311.1
52.5°	298.3	293.3	290.0	287.9	287.3	287.8	287.9	290.5	292.9	293.5	294.1
55°	267.8	264.0	263.3	259.9	261.4	261.0	262.9	264.4	266.6	268.9	269.3
57.5°	237.3	234.3	232.3	232.6	233.0	234.7	236.2	238.9	241.3	243.6	243.9
60°	217.0	215.5	214.4	214.4	215.1	217.4	219.2	221.8	223.3	224.8	225.9
62.5°	198.5	197.0	195.8	196.4	198.4	199.7	201.9	203.3	204.8	206.3	206.8
65°	169.2	168.4	169.6	170.3	170.7	172.5	175.2	176.3	177.8	178.5	181.1
67.5°	142.2	142.4	142.2	143.3	145.4	145.9	148.3	151.0	151.3	152.7	154.4
70°	124.0	124.7	125.5	126.2	128.1	128.8	130.7	131.8	133.3	134.4	135.6
72.5°	107.3	107.4	108.2	108.0	109.6	111.2	112.8	113.9	115.4	116.8	117.9
75°	82.5	82.5	83.3	83.7	85.5	87.4	87.0	87.8	89.3	90.8	91.5
77.5°	60.3	59.5	60.3	60.6	61.2	62.8	63.1	64.2	65.9	65.4	66.2
80°	45.9	44.8	45.9	46.3	46.3	48.2	48.2	48.9	50.0	48.9	50.0
82.5°	32.8	32.3	33.1	33.2	33.8	33.8	34.4	34.6	35.7	35.2	35.7
85°	16.4	16.1	16.4	16.1	16.4	16.8	16.8	16.4	16.4	17.2	16.1
87.5°	5.9	5.8	5.9	6.4	6.5	6.3	5.9	5.8	5.7	5.2	5.3
90°	4.2	5.3	7.1	9.5	11.7	12.0	11.7	11.3	10.6	11.3	11.7
92.5°	12.7	16.0	24.0	35.3	45.3	45.9	38.8	30.8	26.4	23.5	21.3
95°	26.1	34.6	50.9	81.6	122.6	138.5	121.2	92.6	71.0	56.2	48.4
97.5°	37.1	46.7	67.1	110.0	178.1	236.4	248.0	216.0	176.7	138.5	113.0
100°	44.2	54.1	72.8	115.9	192.2	279.1	330.0	322.6	278.8	230.4	187.6
102.5°	50.7	60.6	77.9	116.2	186.8	280.5	360.5	392.4	382.5	347.1	301.8
105°	60.1	70.0	86.6	118.0	176.3	261.8	355.8	429.3	469.2	473.8	462.2
107.5°	69.4	79.4	95.5	122.9	171.1	241.7	324.8	402.7	462.9	499.6	516.7
110°	75.6	85.9	101.4	126.8	170.0	232.1	305.3	379.8	443.1	488.3	517.3



TEST NUMBER: P331287

CATALOG NUMBER: S122DIP-S485D330U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	81.5	92.1	107.1	131.1	170.2	225.9	291.7	358.9	419.6	467.9	501.2
115°	91.2	100.7	115.9	137.4	171.7	219.1	274.9	333.2	387.6	433.9	470.3
117.5°	100.1	110.0	124.0	144.2	174.3	215.7	264.3	313.8	361.6	403.6	437.7
120°	106.0	115.9	129.7	148.8	176.0	213.8	258.6	304.2	348.0	385.5	417.6
122.5°	111.9	122.1	135.0	152.7	177.9	212.6	253.8	296.6	336.7	372.2	401.2
125°	120.5	130.4	143.1	159.0	180.9	210.6	247.0	285.5	321.9	353.0	379.5
127.5°	128.0	138.2	150.6	164.9	183.9	209.4	240.6	274.5	307.5	336.8	361.2
130°	132.9	142.7	155.1	168.5	186.2	208.8	236.4	267.5	297.9	325.8	349.1
132.5°	137.4	147.3	159.1	172.2	188.5	208.5	233.0	260.7	288.8	314.5	336.4
135°	143.5	153.3	164.7	177.0	191.2	208.1	228.2	251.2	274.5	297.9	317.6
137.5°	148.8	158.0	169.2	180.7	193.6	208.0	224.9	243.7	263.2	281.7	298.9
140°	151.9	161.1	171.7	182.7	194.7	207.8	222.9	238.8	255.8	272.1	287.6
142.5°	154.8	163.4	173.7	184.4	195.5	207.8	221.0	234.9	249.3	263.3	276.3
145°	159.4	167.1	176.7	186.6	196.4	207.0	218.4	229.3	241.0	251.9	262.2
147.5°	163.2	170.1	179.1	187.8	196.7	205.8	215.7	225.0	234.2	242.7	250.2
150°	165.7	172.1	180.2	188.3	196.4	204.9	213.4	221.9	229.7	237.1	243.4
152.5°	168.3	174.0	181.3	188.6	195.9	203.5	211.4	218.8	226.0	232.3	237.8
155°	171.7	177.0	183.0	189.0	195.0	201.0	207.8	214.5	220.1	225.4	229.3
157.5°	174.7	179.1	184.2	189.0	193.4	198.5	204.3	209.5	214.2	218.6	221.7
160°	176.7	180.6	184.8	189.0	192.6	196.8	201.7	206.3	210.2	214.1	216.6
162.5°	178.4	181.4	185.1	188.7	191.7	195.4	199.5	203.2	206.6	209.9	211.8
165°	180.2	182.3	185.5	188.0	190.1	192.6	195.7	198.6	201.0	203.5	204.9
167.5°	181.8	183.1	185.4	187.5	188.5	190.1	192.1	194.1	196.0	197.7	199.0
170°	182.3	183.4	185.1	186.9	187.6	188.7	190.1	191.9	192.9	194.3	195.0
172.5°	182.9	183.7	184.9	186.1	186.5	187.0	188.1	189.3	190.1	191.2	191.6
175°	183.4	183.7	184.4	185.1	184.8	185.1	185.5	186.6	186.9	187.3	187.6
177.5°	183.7	183.7	184.0	184.6	184.0	183.7	184.0	184.6	184.6	184.9	184.9
180°	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7



TEST NUMBER: P331287

CATALOG NUMBER: S122DIP-S485D330U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7
2.5°	932.0	931.4	931.4	928.7	931.4	931.4	932.0	935.0	935.9	936.5	935.3
5°	864.6	863.4	861.6	863.4	861.6	863.4	864.6	869.8	872.4	875.0	877.3
7.5°	797.9	793.4	792.7	788.3	792.7	793.4	797.9	800.3	805.5	811.4	816.8
10°	749.2	746.2	745.8	738.7	745.8	746.2	749.2	755.5	760.7	767.8	775.3
12.5°	712.1	704.9	706.4	702.3	706.4	704.9	712.1	712.2	718.3	722.7	734.4
15°	647.9	647.9	646.5	640.1	646.5	647.9	647.9	658.0	659.9	667.0	677.1
17.5°	601.9	601.1	597.5	599.3	597.5	601.1	601.9	609.3	610.5	620.0	628.3
20°	574.4	572.1	567.7	567.7	567.7	572.1	574.4	578.5	583.3	588.9	596.0
22.5°	548.4	548.2	543.5	545.0	543.5	548.2	548.4	552.2	556.8	563.0	568.9
25°	518.0	515.0	512.8	513.9	512.8	515.0	518.0	518.4	523.6	527.7	531.4
27.5°	489.2	487.5	487.4	484.3	487.4	487.5	489.2	490.1	493.1	495.5	499.0
30°	472.4	468.7	469.4	467.6	469.4	468.7	472.4	472.8	474.3	475.8	479.9
32.5°	453.3	452.0	451.2	449.6	451.2	452.0	453.3	454.0	457.0	458.5	461.7
35°	427.2	427.6	425.7	426.5	425.7	427.6	427.2	428.0	428.4	429.9	432.8
37.5°	404.5	405.7	404.8	405.0	404.8	405.7	404.5	404.8	405.2	405.4	406.3
40°	389.5	389.5	389.5	390.6	389.5	389.5	389.5	388.4	388.8	388.4	388.4
42.5°	375.2	374.6	374.0	373.9	374.0	374.6	375.2	372.6	373.8	372.6	372.0
45°	350.7	351.8	352.2	350.3	352.2	351.8	350.7	349.9	348.8	348.4	348.1
47.5°	328.5	328.6	328.5	330.1	328.5	328.6	328.5	327.5	325.8	325.1	323.3
50°	313.0	312.2	313.0	312.2	313.0	312.2	313.0	311.1	310.0	308.1	306.6
52.5°	296.5	296.7	296.2	296.1	296.2	296.7	296.5	294.1	293.5	292.9	290.5
55°	270.8	271.5	271.1	271.1	271.1	271.5	270.8	269.3	268.9	266.6	264.4
57.5°	244.1	244.8	245.3	243.6	245.3	244.8	244.1	243.9	243.6	241.3	238.9
60°	225.6	227.4	227.1	226.3	227.1	227.4	225.6	225.9	224.8	223.3	221.8
62.5°	208.5	209.2	209.1	209.0	209.1	209.2	208.5	206.8	206.3	204.8	203.3
65°	182.2	183.0	181.9	183.0	181.9	183.0	182.2	181.1	178.5	177.8	176.3
67.5°	153.9	154.2	155.0	155.5	155.0	154.2	153.9	154.4	152.7	151.3	151.0
70°	136.3	135.9	137.1	138.2	137.1	135.9	136.3	135.6	134.4	133.3	131.8
72.5°	117.8	118.6	118.2	119.1	118.2	118.6	117.8	117.9	116.8	115.4	113.9
75°	90.8	91.9	91.5	92.6	91.5	91.9	90.8	91.5	90.8	89.3	87.8
77.5°	65.6	65.7	65.6	66.2	65.6	65.7	65.6	66.2	65.4	65.9	64.2
80°	50.0	49.3	48.5	50.0	48.5	49.3	50.0	50.0	48.9	50.0	48.9
82.5°	34.8	35.3	34.5	34.5	34.5	35.3	34.8	35.7	35.2	35.7	34.6
85°	16.1	15.7	14.9	14.9	14.9	15.7	16.1	16.1	17.2	16.4	16.4
87.5°	5.3	5.0	5.0	4.7	5.0	5.0	5.3	5.3	5.2	5.7	5.8
90°	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.3	10.6	11.3
92.5°	21.0	19.9	20.1	19.6	20.1	19.9	21.0	21.3	23.5	26.4	30.8
95°	43.8	41.0	39.9	40.3	39.9	41.0	43.8	48.4	56.2	71.0	92.6
97.5°	96.1	87.4	82.3	79.3	82.3	87.4	96.1	113.0	138.5	176.7	216.0
100°	158.3	143.1	132.9	126.5	132.9	143.1	158.3	187.6	230.4	278.8	322.6
102.5°	269.9	244.0	231.2	222.6	231.2	244.0	269.9	301.8	347.1	382.5	392.4
105°	440.2	418.3	403.1	398.2	403.1	418.3	440.2	462.2	473.8	469.2	429.3
107.5°	519.5	518.3	515.2	508.7	515.2	518.3	519.5	516.7	499.6	462.9	402.7
110°	532.5	539.2	542.4	542.0	542.4	539.2	532.5	517.3	488.3	443.1	379.8



TEST NUMBER: P331287

CATALOG NUMBER: S122DIP-S485D330U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	522.3	533.5	539.5	541.4	539.5	533.5	522.3	501.2	467.9	419.6	358.9
115°	495.4	511.6	520.8	524.0	520.8	511.6	495.4	470.3	433.9	387.6	333.2
117.5°	463.3	480.5	490.1	492.8	490.1	480.5	463.3	437.7	403.6	361.6	313.8
120°	442.4	459.0	469.2	472.8	469.2	459.0	442.4	417.6	385.5	348.0	304.2
122.5°	423.4	439.8	448.9	451.8	448.9	439.8	423.4	401.2	372.2	336.7	296.6
125°	400.0	413.4	422.2	425.1	422.2	413.4	400.0	379.5	353.0	321.9	285.5
127.5°	379.1	391.7	399.3	401.6	399.3	391.7	379.1	361.2	336.8	307.5	274.5
130°	366.4	378.4	385.5	388.3	385.5	378.4	366.4	349.1	325.8	297.9	267.5
132.5°	353.4	365.4	371.9	374.5	371.9	365.4	353.4	336.4	314.5	288.8	260.7
135°	332.8	344.5	350.9	352.3	350.9	344.5	332.8	317.6	297.9	274.5	251.2
137.5°	312.8	322.8	328.4	330.5	328.4	322.8	312.8	298.9	281.7	263.2	243.7
140°	298.9	308.1	313.4	315.5	313.4	308.1	298.9	287.6	272.1	255.8	238.8
142.5°	287.0	295.4	300.1	300.5	300.1	295.4	287.0	276.3	263.3	249.3	234.9
145°	270.6	276.7	280.2	281.2	280.2	276.7	270.6	262.2	251.9	241.0	229.3
147.5°	257.2	262.0	264.4	265.1	264.4	262.0	257.2	250.2	242.7	234.2	225.0
150°	248.7	253.0	255.1	255.5	255.1	253.0	248.7	243.4	237.1	229.7	221.9
152.5°	242.0	245.6	247.2	247.3	247.2	245.6	242.0	237.8	232.3	226.0	218.8
155°	233.2	235.7	237.1	236.4	237.1	235.7	233.2	229.3	225.4	220.1	214.5
157.5°	224.4	226.5	227.1	227.1	227.1	226.5	224.4	221.7	218.6	214.2	209.5
160°	219.1	220.8	221.2	221.2	221.2	220.8	219.1	216.6	214.1	210.2	206.3
162.5°	214.3	215.5	215.8	215.5	215.8	215.5	214.3	211.8	209.9	206.6	203.2
165°	206.3	207.8	207.8	207.4	207.8	207.8	206.3	204.9	203.5	201.0	198.6
167.5°	199.6	200.4	200.3	199.9	200.3	200.4	199.6	199.0	197.7	196.0	194.1
170°	195.4	196.4	196.1	195.4	196.1	196.4	195.4	195.0	194.3	192.9	191.9
172.5°	192.0	192.5	192.1	191.7	192.1	192.5	192.0	191.6	191.2	190.1	189.3
175°	187.6	188.0	187.6	186.9	187.6	188.0	187.6	187.6	187.3	186.9	186.6
177.5°	184.9	184.9	184.6	184.0	184.6	184.9	184.9	184.9	184.9	184.6	184.6
180°	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7



TEST NUMBER: P331287

CATALOG NUMBER: S122DIP-S485D330U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7
2.5°	933.8	937.1	942.2	947.5	950.8	957.1	958.9	961.9	964.6	970.8	977.4
5°	879.9	885.1	897.4	904.1	913.5	924.3	931.4	938.9	947.1	961.3	974.4
7.5°	822.1	830.8	846.1	858.7	872.0	887.5	898.7	913.5	925.7	945.7	964.9
10°	783.5	795.8	809.7	824.6	843.3	859.7	875.4	894.1	909.0	932.9	955.3
12.5°	748.9	750.7	770.5	787.0	812.5	832.8	850.9	874.9	889.6	918.0	941.6
15°	688.3	699.5	717.4	730.5	760.7	786.5	811.9	836.9	853.7	888.8	919.8
17.5°	637.3	647.6	666.0	687.4	709.1	734.7	767.6	794.0	816.8	856.9	893.6
20°	605.0	617.7	636.4	658.4	677.5	705.5	733.8	764.1	788.7	833.9	876.9
22.5°	577.5	587.5	602.6	624.3	645.2	670.8	701.9	734.8	760.7	809.4	853.0
25°	538.9	547.1	556.8	574.8	598.3	626.3	650.6	686.8	724.5	770.1	822.7
27.5°	504.1	509.9	518.5	534.3	552.5	578.7	605.7	640.0	678.0	727.4	783.0
30°	482.9	486.6	495.2	508.3	526.2	546.7	574.0	606.9	645.7	695.8	751.0
32.5°	464.4	467.8	473.4	485.9	501.4	519.0	543.5	576.4	613.4	662.6	723.8
35°	436.6	439.2	444.0	454.1	462.7	479.9	500.4	530.3	565.0	612.1	675.6
37.5°	408.9	412.4	415.4	419.7	430.7	442.0	459.9	485.1	519.2	566.7	627.2
40°	390.6	393.6	398.1	400.0	408.9	419.0	433.6	456.7	491.1	534.4	593.4
42.5°	372.1	375.1	377.8	380.0	387.7	396.6	409.7	429.6	460.0	502.2	560.6
45°	346.9	347.3	349.9	354.0	357.8	364.1	373.5	390.6	414.2	453.8	506.8
47.5°	321.4	321.8	322.3	324.1	328.2	333.9	340.1	354.1	375.2	406.8	458.4
50°	304.4	303.6	304.4	305.9	308.5	313.3	320.4	330.5	347.7	377.2	424.6
52.5°	287.9	287.8	287.3	287.9	290.0	293.3	298.3	306.9	322.3	349.4	391.2
55°	262.9	261.0	261.4	259.9	263.3	264.0	267.8	274.9	288.3	307.0	346.2
57.5°	236.2	234.7	233.0	232.6	232.3	234.3	237.3	242.9	253.2	269.6	301.4
60°	219.2	217.4	215.1	214.4	214.4	215.5	217.0	221.1	230.8	245.4	271.5
62.5°	201.9	199.7	198.4	196.4	195.8	197.0	198.5	201.4	208.4	222.1	244.6
65°	175.2	172.5	170.7	170.3	169.6	168.4	169.2	172.2	177.8	188.6	206.5
67.5°	148.3	145.9	145.4	143.3	142.2	142.4	142.2	144.8	148.1	157.4	170.8
70°	130.7	128.8	128.1	126.2	125.5	124.7	124.0	126.2	129.6	137.4	149.0
72.5°	112.8	111.2	109.6	108.0	108.2	107.4	107.3	108.6	111.4	118.6	127.5
75°	87.0	87.4	85.5	83.7	83.3	82.5	82.5	83.7	84.8	90.4	97.5
77.5°	63.1	62.8	61.2	60.6	60.3	59.5	60.3	61.0	61.6	65.4	70.6
80°	48.2	48.2	46.3	46.3	45.9	44.8	45.9	45.2	46.7	50.4	54.2
82.5°	34.4	33.8	33.8	33.2	33.1	32.3	32.8	33.5	34.1	36.7	38.9
85°	16.8	16.8	16.4	16.1	16.4	16.1	16.4	16.8	17.2	18.3	20.2
87.5°	5.9	6.3	6.5	6.4	5.9	5.8	5.9	6.1	6.5	6.6	6.6
90°	11.7	12.0	11.7	9.5	7.1	5.3	4.2	3.5	2.8	1.4	0.4
92.5°	38.8	45.9	45.3	35.3	24.0	16.0	12.7	10.3	8.8	6.2	4.3
95°	121.2	138.5	122.6	81.6	50.9	34.6	26.1	20.5	17.3	13.8	12.4
97.5°	248.0	236.4	178.1	110.0	67.1	46.7	37.1	30.6	25.8	22.0	20.1
100°	330.0	279.1	192.2	115.9	72.8	54.1	44.2	37.1	31.4	28.3	27.2
102.5°	360.5	280.5	186.8	116.2	77.9	60.6	50.7	43.3	37.7	34.5	33.7
105°	355.8	261.8	176.3	118.0	86.6	70.0	60.1	52.3	47.0	44.5	43.1
107.5°	324.8	241.7	171.1	122.9	95.5	79.4	69.4	61.7	56.8	54.4	53.3
110°	305.3	232.1	170.0	126.8	101.4	85.9	75.6	68.2	63.6	61.5	60.1



TEST NUMBER: P331287

CATALOG NUMBER: S122DIP-S485D330U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	291.7	225.9	170.2	131.1	107.1	92.1	81.5	74.4	70.1	67.7	66.3
115°	274.9	219.1	171.7	137.4	115.9	100.7	91.2	84.1	79.9	77.7	76.0
117.5°	264.3	215.7	174.3	144.2	124.0	110.0	100.1	93.3	89.5	87.4	86.0
120°	258.6	213.8	176.0	148.8	129.7	115.9	106.0	98.9	95.8	93.6	92.2
122.5°	253.8	212.6	177.9	152.7	135.0	122.1	111.9	104.9	101.4	99.3	98.2
125°	247.0	210.6	180.9	159.0	143.1	130.4	120.5	113.4	109.2	107.1	106.0
127.5°	240.6	209.4	183.9	164.9	150.6	138.2	128.0	121.3	116.6	113.6	112.2
130°	236.4	208.8	186.2	168.5	155.1	142.7	132.9	125.8	120.8	117.3	115.9
132.5°	233.0	208.5	188.5	172.2	159.1	147.3	137.4	130.0	124.8	121.0	119.3
135°	228.2	208.1	191.2	177.0	164.7	153.3	143.5	135.3	130.0	125.8	124.4
137.5°	224.9	208.0	193.6	180.7	169.2	158.0	148.8	140.8	135.1	130.9	129.2
140°	222.9	207.8	194.7	182.7	171.7	161.1	151.9	144.2	138.5	134.3	132.9
142.5°	221.0	207.8	195.5	184.4	173.7	163.4	154.8	147.3	141.6	137.7	136.5
145°	218.4	207.0	196.4	186.6	176.7	167.1	159.4	152.3	147.0	143.5	142.0
147.5°	215.7	205.8	196.7	187.8	179.1	170.1	163.2	157.3	152.4	149.0	148.0
150°	213.4	204.9	196.4	188.3	180.2	172.1	165.7	160.4	155.8	153.0	151.9
152.5°	211.4	203.5	195.9	188.6	181.3	174.0	168.3	163.2	159.2	156.4	155.9
155°	207.8	201.0	195.0	189.0	183.0	177.0	171.7	167.8	163.9	161.8	161.5
157.5°	204.3	198.5	193.4	189.0	184.2	179.1	174.7	171.6	168.2	166.5	166.1
160°	201.7	196.8	192.6	189.0	184.8	180.6	176.7	173.8	171.0	169.6	169.2
162.5°	199.5	195.4	191.7	188.7	185.1	181.4	178.4	175.8	173.6	172.1	172.4
165°	195.7	192.6	190.1	188.0	185.5	182.3	180.2	178.4	176.3	175.6	176.0
167.5°	192.1	190.1	188.5	187.5	185.4	183.1	181.8	180.5	179.1	178.5	178.9
170°	190.1	188.7	187.6	186.9	185.1	183.4	182.3	181.6	180.6	180.2	180.9
172.5°	188.1	187.0	186.5	186.1	184.9	183.7	182.9	182.5	181.4	181.6	182.0
175°	185.5	185.1	184.8	185.1	184.4	183.7	183.4	183.4	182.7	183.0	183.4
177.5°	184.0	183.7	184.0	184.6	184.0	183.7	183.7	183.7	183.2	183.4	184.0
180°	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7



TEST NUMBER: P331287

CATALOG NUMBER: S122DIP-S485D330U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7
2.5°	976.8	978.3	983.1	987.9	993.2	994.7	997.1	995.0	994.4	1000.1	1004.3
5°	979.6	986.3	999.4	1011.3	1021.4	1028.5	1036.0	1039.0	1044.6	1052.4	1062.1
7.5°	976.4	989.5	1010.1	1027.5	1046.4	1060.1	1070.8	1079.9	1090.9	1105.8	1122.0
10°	972.9	990.4	1015.4	1036.7	1059.9	1077.4	1092.0	1106.2	1122.6	1143.2	1164.4
12.5°	966.3	987.1	1018.4	1043.6	1073.3	1090.6	1110.2	1140.8	1158.5	1187.1	1217.0
15°	953.1	976.2	1019.9	1050.9	1084.5	1117.4	1153.6	1182.7	1211.9	1228.7	1270.9
17.5°	933.4	967.4	1015.8	1052.0	1094.7	1146.4	1187.1	1220.2	1253.8	1281.0	1302.2
20°	917.6	954.6	1009.8	1053.2	1103.9	1159.6	1206.3	1239.9	1269.0	1291.8	1304.9
22.5°	897.6	944.1	997.9	1048.7	1113.5	1168.6	1217.6	1244.1	1268.4	1279.5	1284.5
25°	866.0	922.1	982.9	1044.9	1118.1	1176.4	1221.2	1237.3	1244.4	1233.5	1215.6
27.5°	832.1	894.5	965.7	1037.9	1115.3	1171.3	1203.4	1200.9	1188.9	1153.8	1125.8
30°	806.7	875.4	951.9	1030.7	1108.4	1162.9	1181.6	1162.9	1135.7	1096.5	1056.5
32.5°	780.1	851.2	937.3	1020.6	1095.9	1143.8	1147.9	1115.7	1073.5	1029.0	979.1
35°	739.8	816.8	909.7	997.9	1069.2	1099.5	1081.5	1024.8	974.7	913.9	845.9
37.5°	694.3	779.3	872.5	964.6	1029.3	1037.2	992.7	932.9	862.3	790.8	710.8
40°	660.3	750.3	846.3	939.2	996.4	988.2	931.4	865.7	781.6	694.3	619.9
42.5°	629.8	719.8	817.6	908.8	954.6	932.0	865.7	785.0	694.7	612.4	544.4
45°	577.0	669.6	769.7	857.8	884.0	843.3	755.5	665.9	577.0	508.3	454.5
47.5°	525.8	617.3	716.4	793.9	803.2	748.4	652.5	560.3	483.9	427.9	390.0
50°	488.1	580.0	678.2	747.3	744.3	678.2	579.6	491.8	428.0	382.8	357.4
52.5°	454.3	541.1	635.5	698.3	682.5	610.4	516.3	438.4	385.9	350.5	327.5
55°	401.8	482.1	571.8	622.2	593.1	513.1	433.6	370.8	332.0	305.5	287.6
57.5°	349.7	425.0	501.7	532.8	500.6	426.8	360.5	315.0	285.8	266.1	254.5
60°	317.4	383.2	451.5	478.4	439.9	374.2	321.9	281.2	257.7	241.6	231.2
62.5°	285.2	344.0	408.5	423.1	387.9	332.4	286.1	252.2	232.9	218.6	208.8
65°	241.3	289.4	338.4	348.1	315.6	272.6	236.0	214.0	196.8	186.4	178.5
67.5°	197.9	236.5	271.2	279.0	250.6	220.8	194.3	175.2	163.5	154.8	148.2
70°	172.2	202.8	231.2	237.5	214.7	188.2	168.1	152.7	142.3	134.8	128.5
72.5°	145.0	170.5	194.1	198.4	179.8	159.5	143.0	130.9	121.7	116.9	110.8
75°	110.9	125.9	144.2	145.3	133.0	120.6	107.9	100.1	95.2	89.3	86.3
77.5°	78.3	90.0	100.5	102.5	95.2	86.8	79.7	73.5	69.4	66.6	63.9
80°	59.8	69.1	73.6	76.2	71.0	65.0	60.9	56.8	54.2	52.3	50.4
82.5°	42.7	48.5	52.7	54.7	51.8	48.3	44.1	41.8	39.8	38.2	37.6
85°	21.7	24.3	26.9	27.6	26.9	25.4	23.2	23.2	22.0	21.7	21.7
87.5°	7.8	9.2	9.4	10.4	10.0	10.4	10.9	11.0	10.8	10.4	10.0
90°	1.4	2.8	3.5	4.2	5.3	7.1	9.5	11.7	12.0	11.7	11.3
92.5°	6.2	8.8	10.3	12.7	16.0	24.0	35.3	45.3	45.9	38.8	30.8
95°	13.8	17.3	20.5	26.1	34.6	50.9	81.6	122.6	138.5	121.2	92.6
97.5°	22.0	25.8	30.6	37.1	46.7	67.1	110.0	178.1	236.4	248.0	216.0
100°	28.3	31.4	37.1	44.2	54.1	72.8	115.9	192.2	279.1	330.0	322.6
102.5°	34.5	37.7	43.3	50.7	60.6	77.9	116.2	186.8	280.5	360.5	392.4
105°	44.5	47.0	52.3	60.1	70.0	86.6	118.0	176.3	261.8	355.8	429.3
107.5°	54.4	56.8	61.7	69.4	79.4	95.5	122.9	171.1	241.7	324.8	402.7
110°	61.5	63.6	68.2	75.6	85.9	101.4	126.8	170.0	232.1	305.3	379.8





TEST NUMBER: P331287

CATALOG NUMBER: S122DIP-S485D330U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	67.7	70.1	74.4	81.5	92.1	107.1	131.1	170.2	225.9	291.7	358.9
115°	77.7	79.9	84.1	91.2	100.7	115.9	137.4	171.7	219.1	274.9	333.2
117.5°	87.4	89.5	93.3	100.1	110.0	124.0	144.2	174.3	215.7	264.3	313.8
120°	93.6	95.8	98.9	106.0	115.9	129.7	148.8	176.0	213.8	258.6	304.2
122.5°	99.3	101.4	104.9	111.9	122.1	135.0	152.7	177.9	212.6	253.8	296.6
125°	107.1	109.2	113.4	120.5	130.4	143.1	159.0	180.9	210.6	247.0	285.5
127.5°	113.6	116.6	121.3	128.0	138.2	150.6	164.9	183.9	209.4	240.6	274.5
130°	117.3	120.8	125.8	132.9	142.7	155.1	168.5	186.2	208.8	236.4	267.5
132.5°	121.0	124.8	130.0	137.4	147.3	159.1	172.2	188.5	208.5	233.0	260.7
135°	125.8	130.0	135.3	143.5	153.3	164.7	177.0	191.2	208.1	228.2	251.2
137.5°	130.9	135.1	140.8	148.8	158.0	169.2	180.7	193.6	208.0	224.9	243.7
140°	134.3	138.5	144.2	151.9	161.1	171.7	182.7	194.7	207.8	222.9	238.8
142.5°	137.7	141.6	147.3	154.8	163.4	173.7	184.4	195.5	207.8	221.0	234.9
145°	143.5	147.0	152.3	159.4	167.1	176.7	186.6	196.4	207.0	218.4	229.3
147.5°	149.0	152.4	157.3	163.2	170.1	179.1	187.8	196.7	205.8	215.7	225.0
150°	153.0	155.8	160.4	165.7	172.1	180.2	188.3	196.4	204.9	213.4	221.9
152.5°	156.4	159.2	163.2	168.3	174.0	181.3	188.6	195.9	203.5	211.4	218.8
155°	161.8	163.9	167.8	171.7	177.0	183.0	189.0	195.0	201.0	207.8	214.5
157.5°	166.5	168.2	171.6	174.7	179.1	184.2	189.0	193.4	198.5	204.3	209.5
160°	169.6	171.0	173.8	176.7	180.6	184.8	189.0	192.6	196.8	201.7	206.3
162.5°	172.1	173.6	175.8	178.4	181.4	185.1	188.7	191.7	195.4	199.5	203.2
165°	175.6	176.3	178.4	180.2	182.3	185.5	188.0	190.1	192.6	195.7	198.6
167.5°	178.5	179.1	180.5	181.8	183.1	185.4	187.5	188.5	190.1	192.1	194.1
170°	180.2	180.6	181.6	182.3	183.4	185.1	186.9	187.6	188.7	190.1	191.9
172.5°	181.6	181.4	182.5	182.9	183.7	184.9	186.1	186.5	187.0	188.1	189.3
175°	183.0	182.7	183.4	183.4	183.7	184.4	185.1	184.8	185.1	185.5	186.6
177.5°	183.4	183.2	183.7	183.7	183.7	184.0	184.6	184.0	183.7	184.0	184.6
180°	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7	183.7



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	971.7	971.7	971.7	971.7	971.7	971.7	971.7
2.5°	1007.9	1012.1	1012.1	1012.7	1017.4	1016.9	1016.6
5°	1072.6	1078.9	1079.7	1086.4	1090.9	1089.4	1085.3
7.5°	1133.6	1145.4	1154.4	1159.4	1165.3	1168.9	1167.3
10°	1182.0	1199.2	1209.6	1216.7	1225.3	1231.7	1229.4
12.5°	1225.9	1246.4	1260.7	1272.9	1274.0	1282.2	1276.6
15°	1294.4	1316.1	1318.3	1327.3	1334.4	1333.6	1334.0
17.5°	1317.0	1324.0	1325.4	1325.6	1325.7	1323.1	1317.4
20°	1309.0	1306.4	1300.0	1295.2	1286.6	1285.4	1278.0
22.5°	1270.7	1262.4	1246.5	1236.0	1222.6	1219.1	1217.0
25°	1195.4	1177.1	1151.7	1127.5	1120.7	1107.7	1111.4
27.5°	1092.1	1063.6	1036.1	1016.4	998.6	979.0	984.6
30°	1019.5	987.4	948.6	918.7	899.7	881.0	877.6
32.5°	932.9	885.8	842.5	816.2	787.0	775.2	762.3
35°	783.5	737.6	694.6	657.7	636.4	619.9	605.0
37.5°	649.1	596.3	561.6	531.7	516.3	506.9	509.2
40°	565.8	519.5	494.1	471.3	457.1	450.4	451.9
42.5°	498.3	463.6	442.7	427.1	417.1	413.3	412.4
45°	421.6	402.2	385.0	376.1	371.2	367.1	364.5
47.5°	369.4	353.5	343.8	338.5	334.2	330.1	330.0
50°	338.0	327.5	320.8	315.2	311.8	308.8	311.5
52.5°	314.1	304.5	297.8	292.8	291.5	288.8	288.8
55°	278.6	271.1	266.3	261.8	259.6	258.1	256.2
57.5°	246.3	239.2	234.8	231.9	227.7	226.2	225.6
60°	223.3	217.7	213.2	209.5	207.6	204.7	204.7
62.5°	202.1	196.5	192.3	189.5	186.4	185.2	185.5
65°	171.4	166.9	162.8	159.8	159.1	156.9	157.6
67.5°	143.2	140.2	135.9	134.2	132.8	131.6	130.7
70°	124.4	121.4	119.1	116.9	115.8	115.8	115.8
72.5°	108.5	104.9	103.6	100.8	101.4	100.2	99.0
75°	84.0	81.8	80.7	79.5	77.7	77.7	77.7
77.5°	61.8	61.2	59.8	58.6	58.2	57.8	58.0
80°	47.8	47.4	46.7	46.7	45.9	45.6	44.8
82.5°	36.7	35.8	35.3	35.0	34.9	34.8	34.7
85°	20.9	20.2	20.2	20.5	19.8	19.8	20.2
87.5°	10.2	10.3	10.1	10.1	10.4	10.1	10.1
90°	10.6	11.3	11.7	11.7	11.7	11.7	11.7
92.5°	26.4	23.5	21.3	21.0	19.9	20.1	19.6
95°	71.0	56.2	48.4	43.8	41.0	39.9	40.3
97.5°	176.7	138.5	113.0	96.1	87.4	82.3	79.3
100°	278.8	230.4	187.6	158.3	143.1	132.9	126.5
102.5°	382.5	347.1	301.8	269.9	244.0	231.2	222.6
105°	469.2	473.8	462.2	440.2	418.3	403.1	398.2
107.5°	462.9	499.6	516.7	519.5	518.3	515.2	508.7
110°	443.1	488.3	517.3	532.5	539.2	542.4	542.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	419.6	467.9	501.2	522.3	533.5	539.5	541.4
115°	387.6	433.9	470.3	495.4	511.6	520.8	524.0
117.5°	361.6	403.6	437.7	463.3	480.5	490.1	492.8
120°	348.0	385.5	417.6	442.4	459.0	469.2	472.8
122.5°	336.7	372.2	401.2	423.4	439.8	448.9	451.8
125°	321.9	353.0	379.5	400.0	413.4	422.2	425.1
127.5°	307.5	336.8	361.2	379.1	391.7	399.3	401.6
130°	297.9	325.8	349.1	366.4	378.4	385.5	388.3
132.5°	288.8	314.5	336.4	353.4	365.4	371.9	374.5
135°	274.5	297.9	317.6	332.8	344.5	350.9	352.3
137.5°	263.2	281.7	298.9	312.8	322.8	328.4	330.5
140°	255.8	272.1	287.6	298.9	308.1	313.4	315.5
142.5°	249.3	263.3	276.3	287.0	295.4	300.1	300.5
145°	241.0	251.9	262.2	270.6	276.7	280.2	281.2
147.5°	234.2	242.7	250.2	257.2	262.0	264.4	265.1
150°	229.7	237.1	243.4	248.7	253.0	255.1	255.5
152.5°	226.0	232.3	237.8	242.0	245.6	247.2	247.3
155°	220.1	225.4	229.3	233.2	235.7	237.1	236.4
157.5°	214.2	218.6	221.7	224.4	226.5	227.1	227.1
160°	210.2	214.1	216.6	219.1	220.8	221.2	221.2
162.5°	206.6	209.9	211.8	214.3	215.5	215.8	215.5
165°	201.0	203.5	204.9	206.3	207.8	207.8	207.4
167.5°	196.0	197.7	199.0	199.6	200.4	200.3	199.9
170°	192.9	194.3	195.0	195.4	196.4	196.1	195.4
172.5°	190.1	191.2	191.6	192.0	192.5	192.1	191.7
175°	186.9	187.3	187.6	187.6	188.0	187.6	186.9
177.5°	184.6	184.9	184.9	184.9	184.9	184.6	184.0
180°	183.7	183.7	183.7	183.7	183.7	183.7	183.7

(END OF REPORT)