

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: P331912-940

Luminaire Tested: **S123DIP-S560D365U940-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331912-940  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-17,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123DIP-S560D365U940-4F0-1E-UDD-A4  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 365 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3299.9 lumens  
Efficiency: N/A  
Efficacy: 120.0 lumens/watt  
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: Semi-Direct

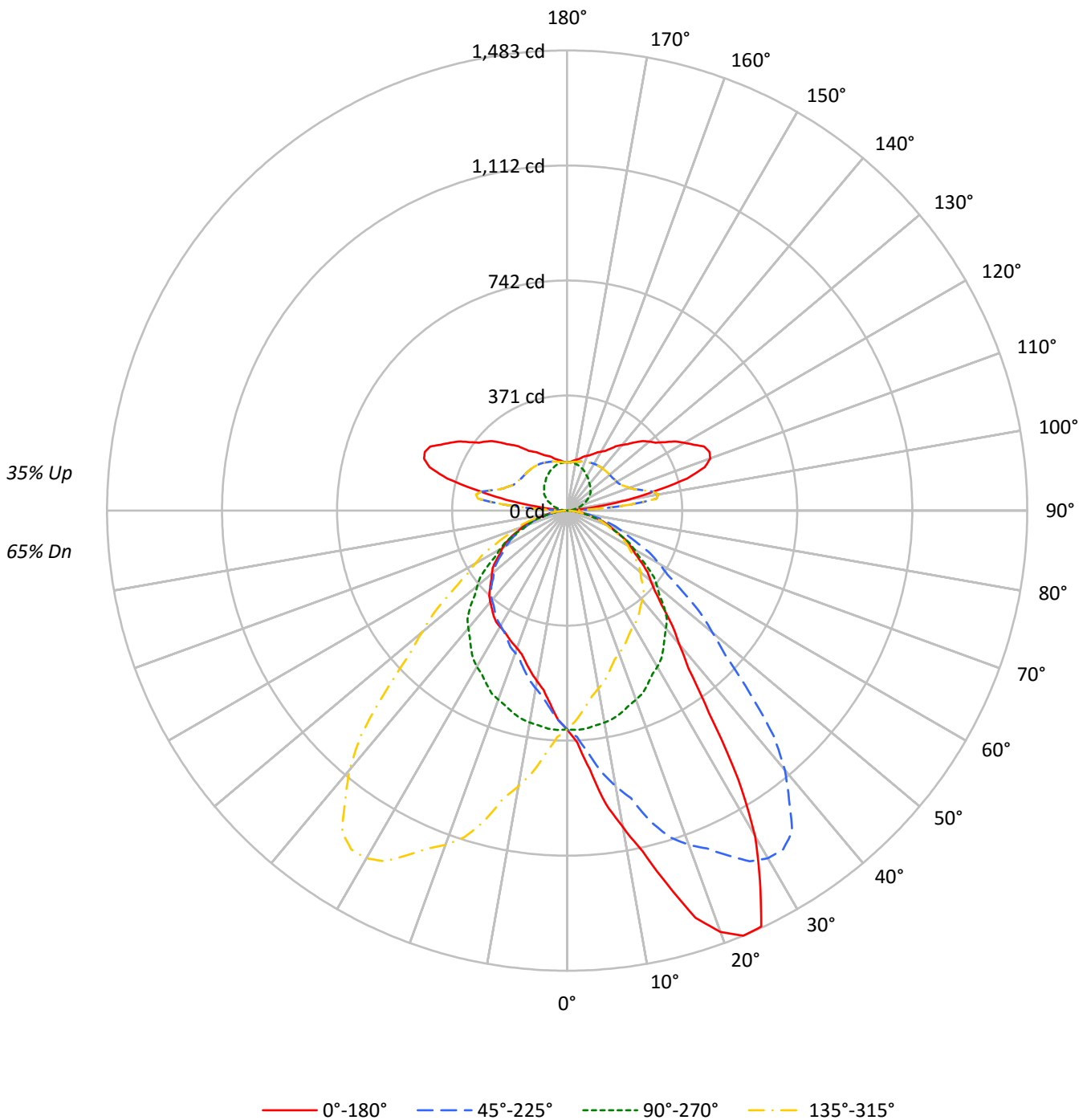
Input Watts (W): 27.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	111	111	111	111	104	104	104	104	91	91	91	80	80	80	69	69	69	65
1	101	97	93	90	95	91	88	85	81	78	76	71	69	67	62	61	59	55
2	93	85	79	74	87	80	75	70	71	67	63	63	60	57	55	53	51	47
3	85	75	68	62	79	71	64	59	63	58	54	56	52	48	49	46	43	40
4	78	67	59	53	73	63	56	50	56	51	46	50	45	42	44	40	38	34
5	71	60	52	45	67	57	49	44	51	45	40	45	40	36	40	36	33	30
6	66	54	46	40	62	51	43	38	46	40	35	41	36	32	36	32	29	26
7	61	49	41	35	57	46	39	34	41	35	31	37	32	28	33	29	26	24
8	57	44	36	31	53	42	35	30	38	32	28	34	29	25	30	26	23	21
9	53	40	33	28	50	39	32	27	35	29	25	31	26	23	28	24	21	19
10	49	37	30	25	47	35	29	24	32	26	22	29	24	21	26	22	19	17

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

	0°	90°	180°	270°
0°	7587	7587	7587	7587
5°	9048	7621	6753	7621
10°	11326	7582	6099	7582
15°	13891	7520	5678	7520
20°	16549	7425	5407	7425
25°	17570	7310	5346	7310
30°	15060	7225	5374	7225
35°	10474	7104	5430	7104
40°	7888	6962	5413	6962
45°	6550	6753	5345	6753
50°	5868	6325	5297	6325
55°	5485	5864	5230	5864
60°	5147	5382	5175	5382
65°	4834	4905	5010	4905
70°	4535	4365	4771	4365
75°	4059	3818	4375	3818
80°	3552	3137	3769	3137
85°	2791	2285	2532	2285



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.4	2.1
10°-20°	222.7	6.7
20°-30°	373.7	11.3
30°-40°	423.1	12.8
40°-50°	379.5	11.5
50°-60°	306.2	9.3
60°-70°	213.4	6.5
70°-80°	112.2	3.4
80°-90°	28.6	0.9
90°-100°	86.6	2.6
100°-110°	245.3	7.4
110°-120°	241.3	7.3
120°-130°	192.5	5.8
130°-140°	151.8	4.6
140°-150°	113.3	3.4
150°-160°	78.9	2.4
160°-170°	46.4	1.4
170°-180°	15.1	0.5
0°-30°	665.8	20.2
0°-40°	1088.9	33.0
0°-60°	1774.6	53.8
0°-90°	2128.7	64.5
90°-120°	573.2	17.4
90°-150°	1030.7	31.2
90°-180°	1171.0	35.5
0°-180°	3299.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	705	705	705	705	705	
5°	837	705	625	705	837	87
15°	1246	675	510	675	1246	360
25°	1479	616	450	616	1479	649
35°	797	541	413	541	797	518
45°	430	444	351	444	430	340
55°	292	312	279	312	292	262
65°	190	193	197	193	190	189
75°	98	92	105	92	98	105
85°	23	18	20	18	23	27
90°	9	1	9	1	9	6
95°	37	11	37	11	37	66
105°	401	37	401	37	401	395
115°	488	65	488	65	488	474
125°	384	90	384	90	384	348
135°	312	105	312	105	312	242
145°	244	120	244	120	244	155
155°	202	136	202	136	202	94
165°	176	149	176	149	176	50
175°	158	155	158	155	158	15
180°	156	156	156	156	156	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9
2.5°	748.1	747.5	746.2	747.3	745.0	742.1	741.8	739.0	731.1	730.6	728.4
5°	837.4	834.6	834.4	834.0	829.2	822.7	810.4	809.4	793.0	784.8	774.9
7.5°	953.1	954.6	949.6	945.2	930.6	921.0	907.8	890.9	870.8	850.3	836.7
10°	1036.2	1047.4	1033.4	1023.9	1015.0	998.3	978.8	954.6	930.3	902.0	880.5
12.5°	1125.2	1130.8	1128.0	1118.9	1105.2	1079.7	1045.2	1018.5	996.1	949.0	929.9
15°	1246.5	1267.4	1254.1	1223.3	1224.1	1199.8	1154.7	1105.2	1078.9	1037.5	981.1
17.5°	1375.8	1378.4	1372.7	1347.1	1330.0	1296.7	1255.1	1207.6	1154.3	1104.4	1044.6
20°	1444.7	1442.6	1430.7	1417.3	1387.9	1362.0	1316.5	1263.6	1195.3	1146.1	1080.9
22.5°	1482.9	1479.4	1473.8	1462.7	1438.2	1410.3	1369.6	1311.7	1246.7	1178.9	1103.6
25°	1479.4	1483.9	1484.6	1481.5	1473.0	1456.3	1424.2	1378.0	1313.1	1226.1	1147.5
27.5°	1345.6	1351.8	1370.1	1386.3	1404.4	1422.8	1420.4	1397.5	1349.5	1274.3	1178.2
30°	1211.7	1198.0	1231.9	1274.5	1303.6	1354.8	1383.5	1385.2	1358.3	1293.7	1200.1
32.5°	1025.9	1041.0	1055.9	1108.4	1171.9	1229.4	1286.5	1332.5	1337.7	1294.8	1212.9
35°	797.1	815.9	843.2	870.6	938.9	997.6	1098.0	1185.4	1255.1	1264.3	1214.1
37.5°	642.3	651.7	668.9	696.2	740.9	810.7	888.3	998.8	1099.7	1174.8	1178.1
40°	561.4	564.2	583.6	604.5	640.7	698.0	768.1	865.8	986.7	1091.5	1135.2
42.5°	500.8	506.8	515.1	535.1	563.9	607.1	672.2	753.0	863.7	984.4	1069.9
45°	430.3	437.1	442.3	455.6	476.1	505.1	550.5	624.3	708.6	833.3	948.4
47.5°	383.7	384.2	388.1	398.1	412.1	433.9	466.0	513.4	590.8	691.9	810.1
50°	350.4	355.9	357.2	365.1	376.0	392.1	418.7	459.0	522.5	611.4	720.0
52.5°	326.9	328.5	332.3	338.0	347.6	360.1	383.2	414.7	464.6	540.3	640.2
55°	292.3	292.3	296.1	300.5	306.0	317.3	332.6	355.9	393.8	452.5	535.2
57.5°	260.4	262.1	264.7	266.1	270.7	278.2	291.1	308.7	337.0	382.2	447.9
60°	239.1	242.1	241.8	244.5	248.6	254.4	265.4	279.7	305.0	341.2	396.5
62.5°	220.5	220.3	220.3	223.5	227.6	233.1	240.2	252.6	274.1	306.2	353.3
65°	189.8	189.2	191.6	193.7	195.0	199.1	204.6	215.5	229.9	253.8	290.3
67.5°	162.7	160.7	162.0	162.7	165.1	168.3	173.3	180.1	191.5	210.7	238.3
70°	144.1	142.4	142.0	142.8	144.8	147.2	151.0	157.5	168.0	183.4	203.6
72.5°	125.0	123.9	123.8	125.3	126.3	127.8	130.5	136.4	144.8	156.3	175.1
75°	97.6	97.6	97.6	98.0	99.1	100.4	102.5	105.5	112.0	120.2	132.9
77.5°	73.2	73.1	72.8	72.7	74.2	74.8	75.3	78.1	81.8	87.3	96.5
80°	57.3	55.6	56.4	57.3	58.1	58.4	59.4	60.1	63.2	66.3	72.8
82.5°	42.6	41.2	41.3	42.9	43.1	43.3	44.4	45.4	46.5	49.3	52.8
85°	22.6	22.6	22.9	22.9	23.2	22.9	23.9	24.3	24.3	25.9	28.0
87.5°	10.0	9.5	9.7	10.0	9.7	9.9	10.1	10.3	10.5	10.9	11.0
90°	9.1	9.5	9.1	8.8	9.1	8.5	8.2	7.8	7.6	7.8	7.0
92.5°	15.2	15.8	15.4	16.4	16.9	18.5	21.0	26.6	36.6	48.4	53.3
95°	36.6	37.8	40.0	42.9	48.9	60.2	76.9	113.4	151.6	186.9	166.4
97.5°	99.5	102.2	110.8	124.9	148.2	185.8	226.5	282.8	309.8	289.6	212.0
100°	197.6	197.2	209.6	232.6	264.4	309.2	346.0	371.5	360.5	298.5	201.7
102.5°	289.8	297.1	307.4	325.6	350.4	378.7	400.2	401.0	363.0	282.0	186.5
105°	400.8	402.4	412.5	424.5	439.0	447.1	441.1	409.7	343.8	253.3	168.0
107.5°	464.8	467.6	471.0	475.1	474.8	463.6	436.0	384.8	310.1	228.0	156.1
110°	491.0	491.6	492.2	489.7	480.9	458.8	419.1	361.1	289.0	213.7	151.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	496.2	496.1	493.7	485.9	469.8	441.4	396.9	337.7	270.5	204.0	149.0
115°	487.5	485.9	479.6	465.7	442.1	407.8	361.4	306.6	248.3	193.8	148.1
117.5°	459.6	457.4	448.4	432.6	407.9	373.0	331.4	284.1	234.9	187.7	148.6
120°	436.4	434.5	427.0	409.3	384.4	352.6	314.8	272.2	227.8	184.9	149.7
122.5°	414.7	412.3	404.0	388.2	366.0	336.4	301.4	263.0	222.0	183.2	151.4
125°	384.4	382.3	374.3	360.5	340.4	315.1	284.9	250.5	214.6	180.8	154.1
127.5°	359.4	357.5	350.4	338.5	320.6	297.6	270.3	239.7	208.0	179.8	157.1
130°	345.4	342.9	336.3	324.9	308.2	286.8	261.3	232.8	204.5	179.0	159.2
132.5°	331.5	329.8	323.9	312.5	296.9	276.4	252.6	226.6	201.3	178.7	160.7
135°	311.7	309.4	303.8	294.4	278.8	260.9	240.4	218.0	197.0	178.3	162.9
137.5°	290.7	289.2	284.5	274.8	261.9	246.3	228.6	210.3	193.2	177.6	164.4
140°	276.1	276.3	271.3	262.5	250.5	236.9	221.9	205.8	190.9	177.5	165.4
142.5°	262.4	262.7	258.2	250.4	240.1	228.4	215.3	201.5	189.0	176.9	166.2
145°	243.6	243.0	240.4	233.8	226.0	216.8	206.7	196.4	186.2	176.1	166.7
147.5°	228.1	227.8	225.4	221.0	215.0	208.5	200.4	192.1	183.6	175.0	166.7
150°	219.0	219.0	217.1	213.7	208.9	203.0	196.4	189.0	181.8	174.0	166.7
152.5°	211.4	211.4	210.3	207.1	203.4	198.4	192.5	186.3	179.8	172.7	165.9
155°	202.0	201.7	201.1	198.5	195.6	191.9	187.2	182.2	176.7	170.5	165.1
157.5°	193.3	193.4	192.9	191.0	188.6	185.6	181.9	177.7	173.3	168.5	164.1
160°	187.8	188.2	188.2	186.2	184.0	181.8	178.7	175.2	171.1	167.0	163.5
162.5°	182.8	183.1	183.1	181.5	180.0	178.1	175.1	172.2	168.8	165.5	162.6
165°	176.1	176.1	176.5	175.2	174.0	172.4	170.1	168.3	165.8	163.3	161.0
167.5°	169.9	169.9	170.1	169.2	168.7	167.6	166.3	164.9	162.8	161.0	159.5
170°	166.0	166.0	166.4	165.8	165.4	164.8	163.5	162.6	161.0	159.4	158.5
172.5°	162.6	162.8	163.4	162.7	162.6	162.3	161.3	160.6	159.3	158.2	157.7
175°	158.5	158.8	159.2	158.8	158.8	158.8	158.2	157.8	157.2	156.6	156.6
177.5°	156.1	156.1	156.7	156.4	156.7	156.7	156.4	156.1	156.0	155.7	156.0
180°	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9
2.5°	726.7	724.6	722.4	718.5	715.2	710.6	709.3	707.7	702.8	698.3	695.1
5°	771.2	762.9	751.0	740.0	731.2	719.3	712.4	705.3	695.0	685.8	678.2
7.5°	817.6	801.5	782.9	762.9	744.1	726.0	711.5	698.6	684.2	670.6	660.0
10°	854.5	831.3	805.3	777.3	753.4	730.1	710.7	693.7	675.2	659.2	645.8
12.5°	896.5	862.1	826.3	792.3	764.0	731.8	708.3	686.5	665.7	646.3	631.3
15°	946.4	902.7	860.3	813.5	770.4	730.1	702.1	674.8	650.6	630.8	611.6
17.5°	991.7	942.2	886.4	829.5	777.6	729.8	690.5	659.7	629.4	605.1	586.0
20°	1017.4	961.0	897.9	838.7	781.4	728.1	685.1	648.2	615.5	589.8	568.3
22.5°	1039.6	973.6	908.2	845.1	781.1	723.7	675.0	637.0	601.5	576.4	553.6
25°	1062.5	983.6	918.0	843.9	772.5	713.1	658.4	615.5	579.9	550.5	527.0
27.5°	1082.2	982.9	905.1	825.4	759.0	699.5	641.1	594.9	557.2	525.3	501.4
30°	1095.3	984.3	891.7	812.8	745.9	684.4	627.7	581.3	541.6	509.2	486.7
32.5°	1103.5	983.5	879.4	795.3	725.1	670.7	613.2	565.2	524.4	492.6	470.8
35°	1108.2	977.4	858.3	759.2	691.6	638.6	590.5	540.6	497.9	468.2	443.6
37.5°	1098.7	964.8	833.7	724.3	650.3	598.2	557.7	515.2	474.4	441.7	420.4
40°	1083.6	956.6	814.5	699.8	621.9	571.7	537.3	495.5	455.2	424.2	404.4
42.5°	1055.0	940.0	793.5	672.4	592.4	542.2	510.4	475.6	437.5	408.3	388.5
45°	985.0	903.7	762.0	631.5	548.8	497.0	469.0	443.6	409.1	380.8	363.7
47.5°	887.8	849.1	716.3	588.3	503.4	453.4	424.3	403.9	378.7	355.9	339.5
50°	820.4	804.3	685.5	558.7	473.0	424.2	396.2	377.7	359.6	336.7	321.7
52.5°	742.4	752.3	649.3	528.2	442.1	394.1	367.7	353.1	336.7	317.9	304.8
55°	632.8	668.7	587.1	476.8	396.2	350.4	325.5	312.5	302.9	288.9	277.7
57.5°	530.2	575.8	519.7	423.8	351.0	311.6	287.7	273.5	267.3	260.0	251.2
60°	469.2	514.3	471.6	388.3	320.7	283.1	262.0	250.0	243.9	238.7	231.2
62.5°	414.9	460.5	424.6	352.2	290.9	256.1	237.6	226.0	221.1	218.5	212.0
65°	340.2	379.4	355.5	296.1	248.3	217.6	200.8	192.6	188.2	187.2	183.1
67.5°	276.9	306.7	289.4	245.6	207.9	181.4	167.2	160.2	156.9	156.5	153.4
70°	235.3	263.3	250.0	210.4	177.9	157.1	144.8	138.7	136.6	136.3	134.6
72.5°	203.0	222.6	212.0	179.0	153.9	135.0	125.9	119.5	117.2	117.7	116.5
75°	150.3	165.0	158.8	135.9	115.7	103.4	95.9	91.8	89.8	90.9	89.4
77.5°	108.2	117.4	111.9	96.0	83.6	74.7	69.2	66.7	64.8	64.7	64.1
80°	81.6	87.1	84.0	74.5	64.2	56.7	52.3	50.6	49.5	49.2	48.9
82.5°	58.1	62.8	59.1	52.6	45.7	41.1	38.6	36.4	35.6	35.8	35.5
85°	29.3	31.1	29.7	25.6	22.9	20.9	19.4	18.5	17.7	18.1	17.4
87.5°	11.3	11.4	10.3	9.2	8.5	7.5	7.3	6.7	6.2	6.4	6.3
90°	6.0	5.1	4.1	3.5	2.9	1.9	1.2	0.6	1.2	1.9	2.9
92.5°	40.0	26.5	18.2	13.6	10.9	8.5	5.8	3.9	5.8	8.5	10.9
95°	114.7	67.8	40.9	28.7	20.5	15.2	11.7	10.7	11.7	15.2	20.5
97.5°	125.8	72.9	47.3	34.1	25.9	21.3	18.5	18.3	18.5	21.3	25.9
100°	118.8	72.1	50.1	37.8	30.2	25.9	23.6	23.4	23.6	25.9	30.2
102.5°	112.7	73.2	53.4	42.1	35.3	31.1	29.2	28.6	29.2	31.1	35.3
105°	108.4	76.0	58.9	49.1	43.2	39.4	37.5	36.6	37.5	39.4	43.2
107.5°	108.1	81.1	66.2	57.1	51.5	47.8	45.9	45.0	45.9	47.8	51.5
110°	109.3	85.4	71.2	62.4	57.1	53.6	52.0	51.0	52.0	53.6	57.1





TEST NUMBER: P331912-940

CATALOG NUMBER: S123DIP-S560D365U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	111.9	89.7	76.5	67.9	62.6	59.1	57.5	56.6	57.5	59.1	62.6
115°	115.9	96.8	84.8	76.2	70.9	67.8	65.9	64.6	65.9	67.8	70.9
117.5°	121.4	104.2	92.4	84.5	78.6	75.6	74.0	72.6	74.0	75.6	78.6
120°	125.4	109.1	97.6	89.8	83.8	80.7	79.1	78.1	79.1	80.7	83.8
122.5°	129.2	114.0	103.0	94.6	88.9	85.4	83.9	82.9	83.9	85.4	88.9
125°	135.2	121.4	110.3	101.7	95.8	92.3	90.4	89.8	90.4	92.3	95.8
127.5°	140.1	127.6	117.0	108.4	101.8	98.4	95.9	95.1	95.9	98.4	101.8
130°	143.4	131.4	121.0	112.5	105.8	102.1	99.2	98.4	99.2	102.1	105.8
132.5°	146.4	134.6	124.6	116.3	109.7	105.1	102.0	100.9	102.0	105.1	109.7
135°	150.3	139.6	129.8	121.4	114.7	109.9	106.5	105.2	106.5	109.9	114.7
137.5°	153.2	143.0	133.6	125.7	119.1	114.1	110.8	109.4	110.8	114.1	119.1
140°	154.7	145.3	136.2	128.2	122.0	116.9	113.8	112.2	113.8	116.9	122.0
142.5°	156.2	147.0	138.1	130.8	124.5	119.9	116.5	115.2	116.5	119.9	124.5
145°	157.8	149.4	141.2	133.9	128.6	123.9	121.0	120.0	121.0	123.9	128.6
147.5°	158.9	151.2	143.7	137.6	132.4	128.3	125.6	125.0	125.6	128.3	132.4
150°	159.2	152.5	145.3	139.6	135.2	131.1	128.6	128.2	128.6	131.1	135.2
152.5°	159.6	153.3	147.0	141.6	137.7	134.1	131.6	131.5	131.6	134.1	137.7
155°	159.8	154.7	149.4	145.0	141.5	138.3	136.4	136.4	136.4	138.3	141.5
157.5°	160.1	155.5	151.2	147.8	144.9	142.1	140.6	140.4	140.6	142.1	144.9
160°	160.1	156.3	152.5	149.4	147.1	144.6	143.4	143.4	143.4	144.6	147.1
162.5°	159.8	156.6	153.3	150.6	148.6	146.7	145.6	145.6	145.6	146.7	148.6
165°	159.2	156.9	154.4	152.2	151.0	149.4	148.7	149.0	148.7	149.4	151.0
167.5°	158.6	156.9	155.1	153.6	152.8	151.6	151.2	151.6	151.2	151.6	152.8
170°	157.8	156.6	155.1	154.4	153.7	152.8	152.5	153.1	152.5	152.8	153.7
172.5°	157.7	156.6	155.2	154.9	154.5	153.8	153.7	154.2	153.7	153.8	154.5
175°	156.9	156.3	155.7	155.3	155.3	154.7	155.1	155.3	155.1	154.7	155.3
177.5°	156.4	156.0	155.7	155.7	155.7	155.4	155.7	156.0	155.7	155.4	155.7
180°	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7



TEST NUMBER: P331912-940

CATALOG NUMBER: S123DIP-S560D365U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9
2.5°	693.1	691.3	688.5	684.4	681.1	675.9	675.9	676.7	676.7	676.5	675.9
5°	672.1	667.0	660.8	653.7	646.1	638.6	637.3	634.5	632.5	631.2	629.5
7.5°	649.9	640.9	631.9	621.9	612.7	605.1	599.9	595.5	592.6	589.7	587.5
10°	634.9	623.6	613.1	602.4	590.8	581.6	575.8	571.7	568.6	565.9	564.5
12.5°	617.2	604.2	592.5	582.5	569.8	560.3	554.7	552.9	549.2	543.5	540.5
15°	591.2	579.3	565.3	549.8	543.7	532.1	525.6	522.5	520.5	516.0	514.7
17.5°	569.0	553.3	537.6	526.1	514.7	505.3	501.7	497.8	495.2	491.5	490.4
20°	551.3	537.3	522.9	510.6	498.6	488.4	485.3	482.6	479.8	478.1	476.8
22.5°	533.2	519.2	507.3	495.8	483.0	476.4	473.0	470.0	468.1	466.9	465.6
25°	507.8	495.5	482.2	472.0	461.7	457.3	455.2	453.5	452.2	450.5	450.1
27.5°	485.2	471.8	461.0	451.4	444.1	440.3	438.4	437.6	437.8	438.5	438.8
30°	468.2	455.9	447.0	438.8	432.0	428.6	428.3	428.3	429.6	430.0	430.7
32.5°	452.6	442.6	433.6	425.7	420.5	418.2	419.5	419.5	420.6	421.5	422.8
35°	430.0	421.1	414.3	407.4	403.0	404.0	404.7	405.4	407.1	409.1	410.5
37.5°	408.3	400.6	393.5	388.2	386.1	388.0	389.6	391.0	393.1	394.6	395.9
40°	392.7	386.9	380.1	375.3	376.0	377.0	378.4	380.1	381.8	382.8	384.2
42.5°	378.3	372.2	367.0	363.0	364.0	365.3	366.1	367.0	369.0	370.9	371.7
45°	356.2	351.4	346.6	344.3	344.9	345.6	346.3	347.3	349.0	350.4	350.7
47.5°	331.4	328.1	324.9	322.5	323.6	323.3	324.2	326.5	327.0	327.8	329.7
50°	315.6	312.5	308.7	308.1	308.1	308.1	308.4	311.1	311.1	312.5	313.9
52.5°	298.1	296.1	293.7	292.5	291.9	291.9	293.4	294.7	295.2	297.2	298.5
55°	272.2	270.1	268.1	267.1	266.4	267.1	269.8	270.5	272.2	273.2	274.2
57.5°	245.2	243.6	242.0	241.5	241.3	242.2	243.7	245.8	246.2	249.3	250.8
60°	227.5	225.1	223.7	223.7	223.0	226.0	225.4	228.8	229.5	231.6	234.0
62.5°	209.1	205.9	205.4	205.4	206.3	207.2	208.2	209.7	211.5	214.1	215.9
65°	179.7	177.9	180.3	179.9	179.3	181.4	181.4	183.1	185.1	187.5	191.3
67.5°	151.7	150.8	151.1	151.1	152.0	153.2	154.2	155.7	158.1	160.7	163.1
70°	132.9	133.8	132.2	133.6	134.6	134.9	135.5	137.6	140.4	142.0	144.8
72.5°	114.6	114.5	114.7	115.2	116.3	116.9	117.5	119.8	122.9	124.3	126.5
75°	88.1	87.7	88.8	88.8	90.5	91.2	91.8	92.9	95.6	97.6	99.4
77.5°	64.4	64.7	64.6	65.7	65.3	65.4	67.5	68.5	68.8	72.9	73.7
80°	48.5	49.2	49.5	49.8	50.2	49.5	51.9	53.0	53.0	55.3	57.1
82.5°	34.9	35.2	36.1	36.5	36.6	37.2	37.5	38.2	39.0	40.0	42.3
85°	17.4	18.5	18.8	18.5	18.8	18.1	19.1	19.4	19.8	19.8	19.8
87.5°	6.2	6.6	6.5	7.0	6.9	7.3	7.2	6.8	6.9	7.7	6.8
90°	3.5	4.1	5.1	6.0	7.0	7.8	7.6	7.8	8.2	8.5	9.1
92.5°	13.6	18.2	26.5	40.0	53.3	48.4	36.6	26.6	21.0	18.5	16.9
95°	28.7	40.9	67.8	114.7	166.4	186.9	151.6	113.4	76.9	60.2	48.9
97.5°	34.1	47.3	72.9	125.8	212.0	289.6	309.8	282.8	226.5	185.8	148.2
100°	37.8	50.1	72.1	118.8	201.7	298.5	360.5	371.5	346.0	309.2	264.4
102.5°	42.1	53.4	73.2	112.7	186.5	282.0	363.0	401.0	400.2	378.7	350.4
105°	49.1	58.9	76.0	108.4	168.0	253.3	343.8	409.7	441.1	447.1	439.0
107.5°	57.1	66.2	81.1	108.1	156.1	228.0	310.1	384.8	436.0	463.6	474.8
110°	62.4	71.2	85.4	109.3	151.6	213.7	289.0	361.1	419.1	458.8	480.9



TEST NUMBER: P331912-940

CATALOG NUMBER: S123DIP-S560D365U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	67.9	76.5	89.7	111.9	149.0	204.0	270.5	337.7	396.9	441.4	469.8
115°	76.2	84.8	96.8	115.9	148.1	193.8	248.3	306.6	361.4	407.8	442.1
117.5°	84.5	92.4	104.2	121.4	148.6	187.7	234.9	284.1	331.4	373.0	407.9
120°	89.8	97.6	109.1	125.4	149.7	184.9	227.8	272.2	314.8	352.6	384.4
122.5°	94.6	103.0	114.0	129.2	151.4	183.2	222.0	263.0	301.4	336.4	366.0
125°	101.7	110.3	121.4	135.2	154.1	180.8	214.6	250.5	284.9	315.1	340.4
127.5°	108.4	117.0	127.6	140.1	157.1	179.8	208.0	239.7	270.3	297.6	320.6
130°	112.5	121.0	131.4	143.4	159.2	179.0	204.5	232.8	261.3	286.8	308.2
132.5°	116.3	124.6	134.6	146.4	160.7	178.7	201.3	226.6	252.6	276.4	296.9
135°	121.4	129.8	139.6	150.3	162.9	178.3	197.0	218.0	240.4	260.9	278.8
137.5°	125.7	133.6	143.0	153.2	164.4	177.6	193.2	210.3	228.6	246.3	261.9
140°	128.2	136.2	145.3	154.7	165.4	177.5	190.9	205.8	221.9	236.9	250.5
142.5°	130.8	138.1	147.0	156.2	166.2	176.9	189.0	201.5	215.3	228.4	240.1
145°	133.9	141.2	149.4	157.8	166.7	176.1	186.2	196.4	206.7	216.8	226.0
147.5°	137.6	143.7	151.2	158.9	166.7	175.0	183.6	192.1	200.4	208.5	215.0
150°	139.6	145.3	152.5	159.2	166.7	174.0	181.8	189.0	196.4	203.0	208.9
152.5°	141.6	147.0	153.3	159.6	165.9	172.7	179.8	186.3	192.5	198.4	203.4
155°	145.0	149.4	154.7	159.8	165.1	170.5	176.7	182.2	187.2	191.9	195.6
157.5°	147.8	151.2	155.5	160.1	164.1	168.5	173.3	177.7	181.9	185.6	188.6
160°	149.4	152.5	156.3	160.1	163.5	167.0	171.1	175.2	178.7	181.8	184.0
162.5°	150.6	153.3	156.6	159.8	162.6	165.5	168.8	172.2	175.1	178.1	180.0
165°	152.2	154.4	156.9	159.2	161.0	163.3	165.8	168.3	170.1	172.4	174.0
167.5°	153.6	155.1	156.9	158.6	159.5	161.0	162.8	164.9	166.3	167.6	168.7
170°	154.4	155.1	156.6	157.8	158.5	159.4	161.0	162.6	163.5	164.8	165.4
172.5°	154.9	155.2	156.6	157.7	157.7	158.2	159.3	160.6	161.3	162.3	162.6
175°	155.3	155.7	156.3	156.9	156.6	156.6	157.2	157.8	158.2	158.8	158.8
177.5°	155.7	155.7	156.0	156.4	156.0	155.7	156.0	156.1	156.4	156.7	156.7
180°	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7



TEST NUMBER: P331912-940

CATALOG NUMBER: S123DIP-S560D365U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9
2.5°	674.0	673.8	675.6	674.3	675.6	673.8	674.0	675.9	676.5	676.7	676.7
5°	627.4	628.4	625.0	625.0	625.0	628.4	627.4	629.5	631.2	632.5	634.5
7.5°	585.9	584.3	584.5	582.6	584.5	584.3	585.9	587.5	589.7	592.6	595.5
10°	560.4	558.4	557.7	558.0	557.7	558.4	560.4	564.5	565.9	568.6	571.7
12.5°	539.4	539.0	534.5	534.6	534.5	539.0	539.4	540.5	543.5	549.2	552.9
15°	514.7	508.2	507.5	509.5	507.5	508.2	514.7	514.7	516.0	520.5	522.5
17.5°	489.9	486.4	486.7	485.6	486.7	486.4	489.9	490.4	491.5	495.2	497.8
20°	476.8	474.7	474.4	472.0	474.4	474.7	476.8	476.8	478.1	479.8	482.6
22.5°	464.8	464.0	464.2	461.6	464.2	464.0	464.8	465.6	466.9	468.1	470.0
25°	449.8	451.5	450.1	450.1	450.1	451.5	449.8	450.1	450.5	452.2	453.5
27.5°	439.7	439.6	438.9	438.9	438.9	439.6	439.7	438.8	438.5	437.8	437.6
30°	432.0	431.7	432.4	432.4	432.4	431.7	432.0	430.7	430.0	429.6	428.3
32.5°	424.4	424.8	425.0	425.3	425.0	424.8	424.4	422.8	421.5	420.6	419.5
35°	412.6	412.9	413.9	413.2	413.9	412.9	412.6	410.5	409.1	407.1	405.4
37.5°	396.5	398.1	397.8	398.3	397.8	398.1	396.5	395.9	394.6	393.1	391.0
40°	384.6	385.6	385.2	385.2	385.2	385.6	384.6	384.2	382.8	381.8	380.1
42.5°	372.3	373.0	372.1	371.6	372.1	373.0	372.3	371.7	370.9	369.0	367.0
45°	352.1	351.4	352.5	351.1	352.5	351.4	352.1	350.7	350.4	349.0	347.3
47.5°	329.6	330.3	330.6	331.5	330.6	330.3	329.6	329.7	327.8	327.0	326.5
50°	314.5	316.6	316.6	316.3	316.6	316.6	314.5	313.9	312.5	311.1	311.1
52.5°	299.8	300.8	302.1	302.0	302.1	300.8	299.8	298.5	297.2	295.2	294.7
55°	277.0	277.7	278.3	278.7	278.3	277.7	277.0	274.2	273.2	272.2	270.5
57.5°	253.3	253.1	254.7	255.2	254.7	253.1	253.3	250.8	249.3	246.2	245.8
60°	236.7	236.7	239.4	240.4	239.4	236.7	236.7	234.0	231.6	229.5	228.8
62.5°	218.9	220.0	222.7	221.3	222.7	220.0	218.9	215.9	214.1	211.5	209.7
65°	193.0	195.7	195.4	196.7	195.4	195.7	193.0	191.3	187.5	185.1	183.1
67.5°	165.9	167.6	170.0	170.2	170.0	167.6	165.9	163.1	160.7	158.1	155.7
70°	147.6	149.3	150.6	151.6	150.6	149.3	147.6	144.8	142.0	140.4	137.6
72.5°	129.7	130.6	133.9	132.5	133.9	130.6	129.7	126.5	124.3	122.9	119.8
75°	101.7	104.2	106.2	105.2	106.2	104.2	101.7	99.4	97.6	95.6	92.9
77.5°	75.3	77.7	78.6	77.8	78.6	77.7	75.3	73.7	72.9	68.8	68.5
80°	59.4	59.1	61.2	60.8	61.2	59.1	59.4	57.1	55.3	53.0	53.0
82.5°	43.6	43.2	44.2	44.4	44.2	43.2	43.6	42.3	40.0	39.0	38.2
85°	21.1	22.2	20.9	20.5	20.9	22.2	21.1	19.8	19.8	19.8	19.4
87.5°	6.7	6.8	6.5	6.2	6.5	6.8	6.7	6.8	7.7	6.9	6.8
90°	8.8	9.1	9.5	9.1	9.5	9.1	8.8	9.1	8.5	8.2	7.8
92.5°	16.4	15.4	15.8	15.2	15.8	15.4	16.4	16.9	18.5	21.0	26.6
95°	42.9	40.0	37.8	36.6	37.8	40.0	42.9	48.9	60.2	76.9	113.4
97.5°	124.9	110.8	102.2	99.5	102.2	110.8	124.9	148.2	185.8	226.5	282.8
100°	232.6	209.6	197.2	197.6	197.2	209.6	232.6	264.4	309.2	346.0	371.5
102.5°	325.6	307.4	297.1	289.8	297.1	307.4	325.6	350.4	378.7	400.2	401.0
105°	424.5	412.5	402.4	400.8	402.4	412.5	424.5	439.0	447.1	441.1	409.7
107.5°	475.1	471.0	467.6	464.8	467.6	471.0	475.1	474.8	463.6	436.0	384.8
110°	489.7	492.2	491.6	491.0	491.6	492.2	489.7	480.9	458.8	419.1	361.1



TEST NUMBER: P331912-940

CATALOG NUMBER: S123DIP-S560D365U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	485.9	493.7	496.1	496.2	496.1	493.7	485.9	469.8	441.4	396.9	337.7
115°	465.7	479.6	485.9	487.5	485.9	479.6	465.7	442.1	407.8	361.4	306.6
117.5°	432.6	448.4	457.4	459.6	457.4	448.4	432.6	407.9	373.0	331.4	284.1
120°	409.3	427.0	434.5	436.4	434.5	427.0	409.3	384.4	352.6	314.8	272.2
122.5°	388.2	404.0	412.3	414.7	412.3	404.0	388.2	366.0	336.4	301.4	263.0
125°	360.5	374.3	382.3	384.4	382.3	374.3	360.5	340.4	315.1	284.9	250.5
127.5°	338.5	350.4	357.5	359.4	357.5	350.4	338.5	320.6	297.6	270.3	239.7
130°	324.9	336.3	342.9	345.4	342.9	336.3	324.9	308.2	286.8	261.3	232.8
132.5°	312.5	323.9	329.8	331.5	329.8	323.9	312.5	296.9	276.4	252.6	226.6
135°	294.4	303.8	309.4	311.7	309.4	303.8	294.4	278.8	260.9	240.4	218.0
137.5°	274.8	284.5	289.2	290.7	289.2	284.5	274.8	261.9	246.3	228.6	210.3
140°	262.5	271.3	276.3	276.1	276.3	271.3	262.5	250.5	236.9	221.9	205.8
142.5°	250.4	258.2	262.7	262.4	262.7	258.2	250.4	240.1	228.4	215.3	201.5
145°	233.8	240.4	243.0	243.6	243.0	240.4	233.8	226.0	216.8	206.7	196.4
147.5°	221.0	225.4	227.8	228.1	227.8	225.4	221.0	215.0	208.5	200.4	192.1
150°	213.7	217.1	219.0	219.0	219.0	217.1	213.7	208.9	203.0	196.4	189.0
152.5°	207.1	210.3	211.4	211.4	211.4	210.3	207.1	203.4	198.4	192.5	186.3
155°	198.5	201.1	201.7	202.0	201.7	201.1	198.5	195.6	191.9	187.2	182.2
157.5°	191.0	192.9	193.4	193.3	193.4	192.9	191.0	188.6	185.6	181.9	177.7
160°	186.2	188.2	188.2	187.8	188.2	188.2	186.2	184.0	181.8	178.7	175.2
162.5°	181.5	183.1	183.1	182.8	183.1	183.1	181.5	180.0	178.1	175.1	172.2
165°	175.2	176.5	176.1	176.1	176.1	176.5	175.2	174.0	172.4	170.1	168.3
167.5°	169.2	170.1	169.9	169.9	169.9	170.1	169.2	168.7	167.6	166.3	164.9
170°	165.8	166.4	166.0	166.0	166.0	166.4	165.8	165.4	164.8	163.5	162.6
172.5°	162.7	163.4	162.8	162.6	162.8	163.4	162.7	162.6	162.3	161.3	160.6
175°	158.8	159.2	158.8	158.5	158.8	159.2	158.8	158.8	158.8	158.2	157.8
177.5°	156.4	156.7	156.1	156.1	156.1	156.7	156.4	156.7	156.7	156.4	156.1
180°	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7



TEST NUMBER: P331912-940

CATALOG NUMBER: S123DIP-S560D365U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9
2.5°	675.9	675.9	681.1	684.4	688.5	691.3	693.1	695.1	698.3	702.8	707.7
5°	637.3	638.6	646.1	653.7	660.8	667.0	672.1	678.2	685.8	695.0	705.3
7.5°	599.9	605.1	612.7	621.9	631.9	640.9	649.9	660.0	670.6	684.2	698.6
10°	575.8	581.6	590.8	602.4	613.1	623.6	634.9	645.8	659.2	675.2	693.7
12.5°	554.7	560.3	569.8	582.5	592.5	604.2	617.2	631.3	646.3	665.7	686.5
15°	525.6	532.1	543.7	549.8	565.3	579.3	591.2	611.6	630.8	650.6	674.8
17.5°	501.7	505.3	514.7	526.1	537.6	553.3	569.0	586.0	605.1	629.4	659.7
20°	485.3	488.4	498.6	510.6	522.9	537.3	551.3	568.3	589.8	615.5	648.2
22.5°	473.0	476.4	483.0	495.8	507.3	519.2	533.2	553.6	576.4	601.5	637.0
25°	455.2	457.3	461.7	472.0	482.2	495.5	507.8	527.0	550.5	579.9	615.5
27.5°	438.4	440.3	444.1	451.4	461.0	471.8	485.2	501.4	525.3	557.2	594.9
30°	428.3	428.6	432.0	438.8	447.0	455.9	468.2	486.7	509.2	541.6	581.3
32.5°	419.5	418.2	420.5	425.7	433.6	442.6	452.6	470.8	492.6	524.4	565.2
35°	404.7	404.0	403.0	407.4	414.3	421.1	430.0	443.6	468.2	497.9	540.6
37.5°	389.6	388.0	386.1	388.2	393.5	400.6	408.3	420.4	441.7	474.4	515.2
40°	378.4	377.0	376.0	375.3	380.1	386.9	392.7	404.4	424.2	455.2	495.5
42.5°	366.1	365.3	364.0	363.0	367.0	372.2	378.3	388.5	408.3	437.5	475.6
45°	346.3	345.6	344.9	344.3	346.6	351.4	356.2	363.7	380.8	409.1	443.6
47.5°	324.2	323.3	323.6	322.5	324.9	328.1	331.4	339.5	355.9	378.7	403.9
50°	308.4	308.1	308.1	308.1	308.7	312.5	315.6	321.7	336.7	359.6	377.7
52.5°	293.4	291.9	291.9	292.5	293.7	296.1	298.1	304.8	317.9	336.7	353.1
55°	269.8	267.1	266.4	267.1	268.1	270.1	272.2	277.7	288.9	302.9	312.5
57.5°	243.7	242.2	241.3	241.5	242.0	243.6	245.2	251.2	260.0	267.3	273.5
60°	225.4	226.0	223.0	223.7	223.7	225.1	227.5	231.2	238.7	243.9	250.0
62.5°	208.2	207.2	206.3	205.4	205.4	205.9	209.1	212.0	218.5	221.1	226.0
65°	181.4	181.4	179.3	179.9	180.3	177.9	179.7	183.1	187.2	188.2	192.6
67.5°	154.2	153.2	152.0	151.1	151.1	150.8	151.7	153.4	156.5	156.9	160.2
70°	135.5	134.9	134.6	133.6	132.2	133.8	132.9	134.6	136.3	136.6	138.7
72.5°	117.5	116.9	116.3	115.2	114.7	114.5	114.6	116.5	117.7	117.2	119.5
75°	91.8	91.2	90.5	88.8	88.8	87.7	88.1	89.4	90.9	89.8	91.8
77.5°	67.5	65.4	65.3	65.7	64.6	64.7	64.4	64.1	64.7	64.8	66.7
80°	51.9	49.5	50.2	49.8	49.5	49.2	48.5	48.9	49.2	49.5	50.6
82.5°	37.5	37.2	36.6	36.5	36.1	35.2	34.9	35.5	35.8	35.6	36.4
85°	19.1	18.1	18.8	18.5	18.8	18.5	17.4	17.4	18.1	17.7	18.5
87.5°	7.2	7.3	6.9	7.0	6.5	6.6	6.2	6.3	6.4	6.2	6.7
90°	7.6	7.8	7.0	6.0	5.1	4.1	3.5	2.9	1.9	1.2	0.6
92.5°	36.6	48.4	53.3	40.0	26.5	18.2	13.6	10.9	8.5	5.8	3.9
95°	151.6	186.9	166.4	114.7	67.8	40.9	28.7	20.5	15.2	11.7	10.7
97.5°	309.8	289.6	212.0	125.8	72.9	47.3	34.1	25.9	21.3	18.5	18.3
100°	360.5	298.5	201.7	118.8	72.1	50.1	37.8	30.2	25.9	23.6	23.4
102.5°	363.0	282.0	186.5	112.7	73.2	53.4	42.1	35.3	31.1	29.2	28.6
105°	343.8	253.3	168.0	108.4	76.0	58.9	49.1	43.2	39.4	37.5	36.6
107.5°	310.1	228.0	156.1	108.1	81.1	66.2	57.1	51.5	47.8	45.9	45.0
110°	289.0	213.7	151.6	109.3	85.4	71.2	62.4	57.1	53.6	52.0	51.0



TEST NUMBER: P331912-940

CATALOG NUMBER: S123DIP-S560D365U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	270.5	204.0	149.0	111.9	89.7	76.5	67.9	62.6	59.1	57.5	56.6
115°	248.3	193.8	148.1	115.9	96.8	84.8	76.2	70.9	67.8	65.9	64.6
117.5°	234.9	187.7	148.6	121.4	104.2	92.4	84.5	78.6	75.6	74.0	72.6
120°	227.8	184.9	149.7	125.4	109.1	97.6	89.8	83.8	80.7	79.1	78.1
122.5°	222.0	183.2	151.4	129.2	114.0	103.0	94.6	88.9	85.4	83.9	82.9
125°	214.6	180.8	154.1	135.2	121.4	110.3	101.7	95.8	92.3	90.4	89.8
127.5°	208.0	179.8	157.1	140.1	127.6	117.0	108.4	101.8	98.4	95.9	95.1
130°	204.5	179.0	159.2	143.4	131.4	121.0	112.5	105.8	102.1	99.2	98.4
132.5°	201.3	178.7	160.7	146.4	134.6	124.6	116.3	109.7	105.1	102.0	100.9
135°	197.0	178.3	162.9	150.3	139.6	129.8	121.4	114.7	109.9	106.5	105.2
137.5°	193.2	177.6	164.4	153.2	143.0	133.6	125.7	119.1	114.1	110.8	109.4
140°	190.9	177.5	165.4	154.7	145.3	136.2	128.2	122.0	116.9	113.8	112.2
142.5°	189.0	176.9	166.2	156.2	147.0	138.1	130.8	124.5	119.9	116.5	115.2
145°	186.2	176.1	166.7	157.8	149.4	141.2	133.9	128.6	123.9	121.0	120.0
147.5°	183.6	175.0	166.7	158.9	151.2	143.7	137.6	132.4	128.3	125.6	125.0
150°	181.8	174.0	166.7	159.2	152.5	145.3	139.6	135.2	131.1	128.6	128.2
152.5°	179.8	172.7	165.9	159.6	153.3	147.0	141.6	137.7	134.1	131.6	131.5
155°	176.7	170.5	165.1	159.8	154.7	149.4	145.0	141.5	138.3	136.4	136.4
157.5°	173.3	168.5	164.1	160.1	155.5	151.2	147.8	144.9	142.1	140.6	140.4
160°	171.1	167.0	163.5	160.1	156.3	152.5	149.4	147.1	144.6	143.4	143.4
162.5°	168.8	165.5	162.6	159.8	156.6	153.3	150.6	148.6	146.7	145.6	145.6
165°	165.8	163.3	161.0	159.2	156.9	154.4	152.2	151.0	149.4	148.7	149.0
167.5°	162.8	161.0	159.5	158.6	156.9	155.1	153.6	152.8	151.6	151.2	151.6
170°	161.0	159.4	158.5	157.8	156.6	155.1	154.4	153.7	152.8	152.5	153.1
172.5°	159.3	158.2	157.7	157.7	156.6	155.2	154.9	154.5	153.8	153.7	154.2
175°	157.2	156.6	156.6	156.9	156.3	155.7	155.3	155.3	154.7	155.1	155.3
177.5°	156.0	155.7	156.0	156.4	156.0	155.7	155.7	155.7	155.4	155.7	156.0
180°	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7



TEST NUMBER: P331912-940

CATALOG NUMBER: S123DIP-S560D365U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9
2.5°	709.3	710.6	715.2	718.5	722.4	724.6	726.7	728.4	730.6	731.1	739.0
5°	712.4	719.3	731.2	740.0	751.0	762.9	771.2	774.9	784.8	793.0	809.4
7.5°	711.5	726.0	744.1	762.9	782.9	801.5	817.6	836.7	850.3	870.8	890.9
10°	710.7	730.1	753.4	777.3	805.3	831.3	854.5	880.5	902.0	930.3	954.6
12.5°	708.3	731.8	764.0	792.3	826.3	862.1	896.5	929.9	949.0	996.1	1018.5
15°	702.1	730.1	770.4	813.5	860.3	902.7	946.4	981.1	1037.5	1078.9	1105.2
17.5°	690.5	729.8	777.6	829.5	886.4	942.2	991.7	1044.6	1104.4	1154.3	1207.6
20°	685.1	728.1	781.4	838.7	897.9	961.0	1017.4	1080.9	1146.1	1195.3	1263.6
22.5°	675.0	723.7	781.1	845.1	908.2	973.6	1039.6	1103.6	1178.9	1246.7	1311.7
25°	658.4	713.1	772.5	843.9	918.0	983.6	1062.5	1147.5	1226.1	1313.1	1378.0
27.5°	641.1	699.5	759.0	825.4	905.1	982.9	1082.2	1178.2	1274.3	1349.5	1397.5
30°	627.7	684.4	745.9	812.8	891.7	984.3	1095.3	1200.1	1293.7	1358.3	1385.2
32.5°	613.2	670.7	725.1	795.3	879.4	983.5	1103.5	1212.9	1294.8	1337.7	1332.5
35°	590.5	638.6	691.6	759.2	858.3	977.4	1108.2	1214.1	1264.3	1255.1	1185.4
37.5°	557.7	598.2	650.3	724.3	833.7	964.8	1098.7	1178.1	1174.8	1099.7	998.8
40°	537.3	571.7	621.9	699.8	814.5	956.6	1083.6	1135.2	1091.5	986.7	865.8
42.5°	510.4	542.2	592.4	672.4	793.5	940.0	1055.0	1069.9	984.4	863.7	753.0
45°	469.0	497.0	548.8	631.5	762.0	903.7	985.0	948.4	833.3	708.6	624.3
47.5°	424.3	453.4	503.4	588.3	716.3	849.1	887.8	810.1	691.9	590.8	513.4
50°	396.2	424.2	473.0	558.7	685.5	804.3	820.4	720.0	611.4	522.5	459.0
52.5°	367.7	394.1	442.1	528.2	649.3	752.3	742.4	640.2	540.3	464.6	414.7
55°	325.5	350.4	396.2	476.8	587.1	668.7	632.8	535.2	452.5	393.8	355.9
57.5°	287.7	311.6	351.0	423.8	519.7	575.8	530.2	447.9	382.2	337.0	308.7
60°	262.0	283.1	320.7	388.3	471.6	514.3	469.2	396.5	341.2	305.0	279.7
62.5°	237.6	256.1	290.9	352.2	424.6	460.5	414.9	353.3	306.2	274.1	252.6
65°	200.8	217.6	248.3	296.1	355.5	379.4	340.2	290.3	253.8	229.9	215.5
67.5°	167.2	181.4	207.9	245.6	289.4	306.7	276.9	238.3	210.7	191.5	180.1
70°	144.8	157.1	177.9	210.4	250.0	263.3	235.3	203.6	183.4	168.0	157.5
72.5°	125.9	135.0	153.9	179.0	212.0	222.6	203.0	175.1	156.3	144.8	136.4
75°	95.9	103.4	115.7	135.9	158.8	165.0	150.3	132.9	120.2	112.0	105.5
77.5°	69.2	74.7	83.6	96.0	111.9	117.4	108.2	96.5	87.3	81.8	78.1
80°	52.3	56.7	64.2	74.5	84.0	87.1	81.6	72.8	66.3	63.2	60.1
82.5°	38.6	41.1	45.7	52.6	59.1	62.8	58.1	52.8	49.3	46.5	45.4
85°	19.4	20.9	22.9	25.6	29.7	31.1	29.3	28.0	25.9	24.3	24.3
87.5°	7.3	7.5	8.5	9.2	10.3	11.4	11.3	11.0	10.9	10.5	10.3
90°	1.2	1.9	2.9	3.5	4.1	5.1	6.0	7.0	7.8	7.6	7.8
92.5°	5.8	8.5	10.9	13.6	18.2	26.5	40.0	53.3	48.4	36.6	26.6
95°	11.7	15.2	20.5	28.7	40.9	67.8	114.7	166.4	186.9	151.6	113.4
97.5°	18.5	21.3	25.9	34.1	47.3	72.9	125.8	212.0	289.6	309.8	282.8
100°	23.6	25.9	30.2	37.8	50.1	72.1	118.8	201.7	298.5	360.5	371.5
102.5°	29.2	31.1	35.3	42.1	53.4	73.2	112.7	186.5	282.0	363.0	401.0
105°	37.5	39.4	43.2	49.1	58.9	76.0	108.4	168.0	253.3	343.8	409.7
107.5°	45.9	47.8	51.5	57.1	66.2	81.1	108.1	156.1	228.0	310.1	384.8
110°	52.0	53.6	57.1	62.4	71.2	85.4	109.3	151.6	213.7	289.0	361.1





TEST NUMBER: P331912-940

CATALOG NUMBER: S123DIP-S560D365U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	57.5	59.1	62.6	67.9	76.5	89.7	111.9	149.0	204.0	270.5	337.7
115°	65.9	67.8	70.9	76.2	84.8	96.8	115.9	148.1	193.8	248.3	306.6
117.5°	74.0	75.6	78.6	84.5	92.4	104.2	121.4	148.6	187.7	234.9	284.1
120°	79.1	80.7	83.8	89.8	97.6	109.1	125.4	149.7	184.9	227.8	272.2
122.5°	83.9	85.4	88.9	94.6	103.0	114.0	129.2	151.4	183.2	222.0	263.0
125°	90.4	92.3	95.8	101.7	110.3	121.4	135.2	154.1	180.8	214.6	250.5
127.5°	95.9	98.4	101.8	108.4	117.0	127.6	140.1	157.1	179.8	208.0	239.7
130°	99.2	102.1	105.8	112.5	121.0	131.4	143.4	159.2	179.0	204.5	232.8
132.5°	102.0	105.1	109.7	116.3	124.6	134.6	146.4	160.7	178.7	201.3	226.6
135°	106.5	109.9	114.7	121.4	129.8	139.6	150.3	162.9	178.3	197.0	218.0
137.5°	110.8	114.1	119.1	125.7	133.6	143.0	153.2	164.4	177.6	193.2	210.3
140°	113.8	116.9	122.0	128.2	136.2	145.3	154.7	165.4	177.5	190.9	205.8
142.5°	116.5	119.9	124.5	130.8	138.1	147.0	156.2	166.2	176.9	189.0	201.5
145°	121.0	123.9	128.6	133.9	141.2	149.4	157.8	166.7	176.1	186.2	196.4
147.5°	125.6	128.3	132.4	137.6	143.7	151.2	158.9	166.7	175.0	183.6	192.1
150°	128.6	131.1	135.2	139.6	145.3	152.5	159.2	166.7	174.0	181.8	189.0
152.5°	131.6	134.1	137.7	141.6	147.0	153.3	159.6	165.9	172.7	179.8	186.3
155°	136.4	138.3	141.5	145.0	149.4	154.7	159.8	165.1	170.5	176.7	182.2
157.5°	140.6	142.1	144.9	147.8	151.2	155.5	160.1	164.1	168.5	173.3	177.7
160°	143.4	144.6	147.1	149.4	152.5	156.3	160.1	163.5	167.0	171.1	175.2
162.5°	145.6	146.7	148.6	150.6	153.3	156.6	159.8	162.6	165.5	168.8	172.2
165°	148.7	149.4	151.0	152.2	154.4	156.9	159.2	161.0	163.3	165.8	168.3
167.5°	151.2	151.6	152.8	153.6	155.1	156.9	158.6	159.5	161.0	162.8	164.9
170°	152.5	152.8	153.7	154.4	155.1	156.6	157.8	158.5	159.4	161.0	162.6
172.5°	153.7	153.8	154.5	154.9	155.2	156.6	157.7	157.7	158.2	159.3	160.6
175°	155.1	154.7	155.3	155.3	155.7	156.3	156.9	156.6	156.6	157.2	157.8
177.5°	155.7	155.4	155.7	155.7	155.7	156.0	156.4	156.0	155.7	156.0	156.1
180°	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	704.9	704.9	704.9	704.9	704.9	704.9	704.9
2.5°	741.8	742.1	745.0	747.3	746.2	747.5	748.1
5°	810.4	822.7	829.2	834.0	834.4	834.6	837.4
7.5°	907.8	921.0	930.6	945.2	949.6	954.6	953.1
10°	978.8	998.3	1015.0	1023.9	1033.4	1047.4	1036.2
12.5°	1045.2	1079.7	1105.2	1118.9	1128.0	1130.8	1125.2
15°	1154.7	1199.8	1224.1	1223.3	1254.1	1267.4	1246.5
17.5°	1255.1	1296.7	1330.0	1347.1	1372.7	1378.4	1375.8
20°	1316.5	1362.0	1387.9	1417.3	1430.7	1442.6	1444.7
22.5°	1369.6	1410.3	1438.2	1462.7	1473.8	1479.4	1482.9
25°	1424.2	1456.3	1473.0	1481.5	1484.6	1483.9	1479.4
27.5°	1420.4	1422.8	1404.4	1386.3	1370.1	1351.8	1345.6
30°	1383.5	1354.8	1303.6	1274.5	1231.9	1198.0	1211.7
32.5°	1286.5	1229.4	1171.9	1108.4	1055.9	1041.0	1025.9
35°	1098.0	997.6	938.9	870.6	843.2	815.9	797.1
37.5°	888.3	810.7	740.9	696.2	668.9	651.7	642.3
40°	768.1	698.0	640.7	604.5	583.6	564.2	561.4
42.5°	672.2	607.1	563.9	535.1	515.1	506.8	500.8
45°	550.5	505.1	476.1	455.6	442.3	437.1	430.3
47.5°	466.0	433.9	412.1	398.1	388.1	384.2	383.7
50°	418.7	392.1	376.0	365.1	357.2	355.9	350.4
52.5°	383.2	360.1	347.6	338.0	332.3	328.5	326.9
55°	332.6	317.3	306.0	300.5	296.1	292.3	292.3
57.5°	291.1	278.2	270.7	266.1	264.7	262.1	260.4
60°	265.4	254.4	248.6	244.5	241.8	242.1	239.1
62.5°	240.2	233.1	227.6	223.5	220.3	220.3	220.5
65°	204.6	199.1	195.0	193.7	191.6	189.2	189.8
67.5°	173.3	168.3	165.1	162.7	162.0	160.7	162.7
70°	151.0	147.2	144.8	142.8	142.0	142.4	144.1
72.5°	130.5	127.8	126.3	125.3	123.8	123.9	125.0
75°	102.5	100.4	99.1	98.0	97.6	97.6	97.6
77.5°	75.3	74.8	74.2	72.7	72.8	73.1	73.2
80°	59.4	58.4	58.1	57.3	56.4	55.6	57.3
82.5°	44.4	43.3	43.1	42.9	41.3	41.2	42.6
85°	23.9	22.9	23.2	22.9	22.9	22.6	22.6
87.5°	10.1	9.9	9.7	10.0	9.7	9.5	10.0
90°	8.2	8.5	9.1	8.8	9.1	9.5	9.1
92.5°	21.0	18.5	16.9	16.4	15.4	15.8	15.2
95°	76.9	60.2	48.9	42.9	40.0	37.8	36.6
97.5°	226.5	185.8	148.2	124.9	110.8	102.2	99.5
100°	346.0	309.2	264.4	232.6	209.6	197.2	197.6
102.5°	400.2	378.7	350.4	325.6	307.4	297.1	289.8
105°	441.1	447.1	439.0	424.5	412.5	402.4	400.8
107.5°	436.0	463.6	474.8	475.1	471.0	467.6	464.8
110°	419.1	458.8	480.9	489.7	492.2	491.6	491.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	396.9	441.4	469.8	485.9	493.7	496.1	496.2
115°	361.4	407.8	442.1	465.7	479.6	485.9	487.5
117.5°	331.4	373.0	407.9	432.6	448.4	457.4	459.6
120°	314.8	352.6	384.4	409.3	427.0	434.5	436.4
122.5°	301.4	336.4	366.0	388.2	404.0	412.3	414.7
125°	284.9	315.1	340.4	360.5	374.3	382.3	384.4
127.5°	270.3	297.6	320.6	338.5	350.4	357.5	359.4
130°	261.3	286.8	308.2	324.9	336.3	342.9	345.4
132.5°	252.6	276.4	296.9	312.5	323.9	329.8	331.5
135°	240.4	260.9	278.8	294.4	303.8	309.4	311.7
137.5°	228.6	246.3	261.9	274.8	284.5	289.2	290.7
140°	221.9	236.9	250.5	262.5	271.3	276.3	276.1
142.5°	215.3	228.4	240.1	250.4	258.2	262.7	262.4
145°	206.7	216.8	226.0	233.8	240.4	243.0	243.6
147.5°	200.4	208.5	215.0	221.0	225.4	227.8	228.1
150°	196.4	203.0	208.9	213.7	217.1	219.0	219.0
152.5°	192.5	198.4	203.4	207.1	210.3	211.4	211.4
155°	187.2	191.9	195.6	198.5	201.1	201.7	202.0
157.5°	181.9	185.6	188.6	191.0	192.9	193.4	193.3
160°	178.7	181.8	184.0	186.2	188.2	188.2	187.8
162.5°	175.1	178.1	180.0	181.5	183.1	183.1	182.8
165°	170.1	172.4	174.0	175.2	176.5	176.1	176.1
167.5°	166.3	167.6	168.7	169.2	170.1	169.9	169.9
170°	163.5	164.8	165.4	165.8	166.4	166.0	166.0
172.5°	161.3	162.3	162.6	162.7	163.4	162.8	162.6
175°	158.2	158.8	158.8	158.8	159.2	158.8	158.5
177.5°	156.4	156.7	156.7	156.4	156.7	156.1	156.1
180°	155.7	155.7	155.7	155.7	155.7	155.7	155.7

(END OF REPORT)