

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: P332133-930

Luminaire Tested: **S123DIW-S560D1030U930-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332133-930  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123DIW-S560D1030U930-4F0-1E-UDD-A1  
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1030 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

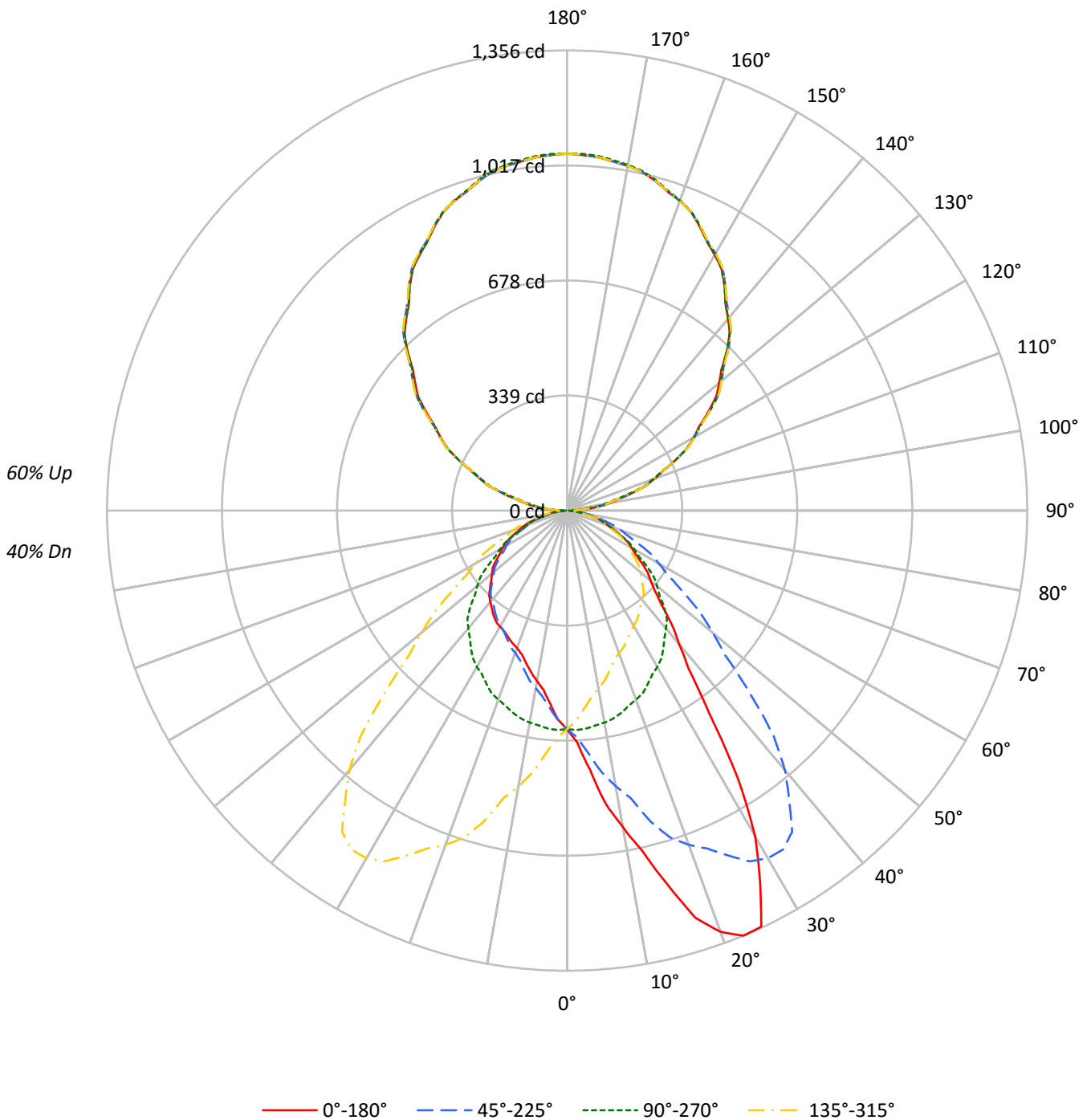
Lumens per Lamp: N/A  
Luminaire Lumens: 4861.6 lumens  
Efficiency: N/A  
Efficacy: 107.6 lumens/watt  
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: General Diffuse  
  
Input Watts (W): 45.2  
Input Voltage (V): 120  
Input Current (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	105	105	105	105	95	95	95	95	78	78	78	62	62	62	47	47	47	40
1	96	92	88	84	87	84	80	78	68	66	64	55	53	52	42	41	40	34
2	87	80	74	69	79	73	68	64	60	57	53	48	46	44	37	35	34	29
3	80	71	64	58	72	65	58	54	53	49	45	43	40	37	33	31	29	25
4	73	63	55	49	66	57	51	45	47	42	39	38	35	32	30	27	25	21
5	67	56	48	42	61	51	44	39	42	37	33	34	31	28	27	24	22	19
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	22	19	16
7	57	45	37	32	52	41	35	30	35	29	26	28	24	21	22	19	17	15
8	53	41	33	28	48	38	31	26	31	26	23	26	22	19	20	18	16	13
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	31	25	21	26	22	18	22	18	15	17	15	13	11

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

	0°	90°	180°	270°
0°	6937	6937	6937	6937
5°	8272	6967	6174	6967
10°	10355	6932	5576	6932
15°	12700	6876	5192	6876
20°	15131	6788	4943	6788
25°	16066	6683	4888	6683
30°	13770	6606	4913	6606
35°	9577	6495	4964	6495
40°	7213	6367	4949	6367
45°	5990	6174	4886	6174
50°	5365	5784	4843	5784
55°	5016	5362	4782	5362
60°	4706	4921	4732	4921
65°	4422	4485	4582	4485
70°	4148	3991	4362	3991
75°	3714	3493	4001	3493
80°	3248	2864	3446	2864
85°	2544	2087	2322	2087



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.5	1.3
10°-20°	203.6	4.2
20°-30°	341.7	7.0
30°-40°	386.9	8.0
40°-50°	346.9	7.1
50°-60°	280.0	5.8
60°-70°	195.1	4.0
70°-80°	102.5	2.1
80°-90°	28.2	0.6
90°-100°	68.5	1.4
100°-110°	205.0	4.2
110°-120°	348.7	7.2
120°-130°	458.7	9.4
130°-140°	515.5	10.6
140°-150°	506.8	10.4
150°-160°	426.6	8.8
160°-170°	284.0	5.8
170°-180°	99.4	2.0
0°-30°	608.7	12.5
0°-40°	995.6	20.5
0°-60°	1622.5	33.4
0°-90°	1948.3	40.1
90°-120°	622.2	12.8
90°-150°	2103.2	43.3
90°-180°	2913.0	59.9
0°-180°	4861.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	644	644	644	644	644	
5°	766	645	571	645	766	79
15°	1140	617	466	617	1140	329
25°	1353	563	412	563	1353	593
35°	729	494	378	494	729	473
45°	394	406	321	406	394	311
55°	267	286	255	286	267	240
65°	174	176	180	176	174	173
75°	89	84	96	84	89	96
85°	21	17	19	17	21	25
90°	25	1	25	1	25	13
95°	64	49	64	49	64	66
105°	197	186	197	186	197	209
115°	352	351	352	351	352	348
125°	508	514	508	514	508	454
135°	666	667	666	667	666	512
145°	809	809	809	809	809	505
155°	924	926	924	926	924	426
165°	1005	1008	1005	1008	1005	284
175°	1045	1049	1045	1049	1045	99
180°	1052	1052	1052	1052	1052	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5
2.5°	684.0	683.5	682.2	683.2	681.2	678.5	678.2	675.7	668.5	668.0	666.0
5°	765.6	763.1	762.9	762.5	758.1	752.2	740.9	740.0	725.0	717.5	708.5
7.5°	871.5	872.8	868.2	864.2	850.8	842.0	830.0	814.6	796.1	777.5	765.0
10°	947.4	957.7	944.9	936.1	928.1	912.7	895.0	872.8	850.6	824.7	805.0
12.5°	1028.8	1033.9	1031.4	1023.0	1010.5	987.2	955.6	931.2	910.8	867.6	850.2
15°	1139.7	1158.8	1146.6	1118.5	1119.2	1097.0	1055.7	1010.5	986.4	948.6	897.1
17.5°	1257.9	1260.3	1255.1	1231.7	1216.0	1185.6	1147.5	1104.2	1055.4	1009.7	955.0
20°	1320.9	1319.0	1308.1	1295.8	1269.0	1245.3	1203.7	1155.4	1092.9	1047.9	988.3
22.5°	1355.8	1352.7	1347.5	1337.3	1315.0	1289.5	1252.2	1199.3	1139.9	1077.9	1009.0
25°	1352.7	1356.7	1357.4	1354.5	1346.8	1331.5	1302.1	1260.0	1200.6	1121.0	1049.2
27.5°	1230.3	1236.0	1252.7	1267.5	1284.1	1300.9	1298.7	1277.7	1233.9	1165.1	1077.3
30°	1107.9	1095.4	1126.3	1165.3	1191.9	1238.7	1264.9	1266.5	1241.9	1182.8	1097.2
32.5°	938.0	951.8	965.4	1013.4	1071.5	1124.1	1176.2	1218.3	1223.1	1183.8	1109.0
35°	728.8	746.0	770.9	796.0	858.4	912.1	1003.9	1083.9	1147.5	1155.9	1110.0
37.5°	587.3	595.8	611.6	636.6	677.4	741.2	812.2	913.2	1005.5	1074.2	1077.2
40°	513.3	515.8	533.6	552.7	585.8	638.2	702.3	791.6	902.1	998.0	1038.0
42.5°	457.9	463.4	470.9	489.3	515.6	555.1	614.6	688.4	789.7	900.0	978.2
45°	393.5	399.7	404.4	416.5	435.3	461.8	503.4	570.8	647.9	761.9	867.2
47.5°	350.8	351.3	354.8	364.0	376.7	396.7	426.1	469.4	540.2	632.6	740.7
50°	320.4	325.4	326.6	333.8	343.8	358.5	382.9	419.6	477.8	559.0	658.3
52.5°	298.9	300.4	303.9	309.1	317.8	329.2	350.3	379.2	424.8	494.0	585.3
55°	267.3	267.3	270.8	274.8	279.8	290.1	304.1	325.4	360.0	413.8	489.3
57.5°	238.1	239.6	242.1	243.3	247.5	254.4	266.1	282.3	308.1	349.4	409.5
60°	218.6	221.4	221.1	223.6	227.3	232.6	242.6	255.8	278.8	311.9	362.6
62.5°	201.6	201.4	201.4	204.3	208.1	213.1	219.6	231.0	250.6	280.0	323.0
65°	173.6	173.0	175.2	177.1	178.3	182.1	187.0	197.1	210.2	232.0	265.4
67.5°	148.8	146.9	148.1	148.8	150.9	153.8	158.5	164.7	175.1	192.7	217.8
70°	131.8	130.2	129.9	130.5	132.4	134.6	138.0	144.0	153.6	167.7	186.1
72.5°	114.3	113.2	113.2	114.5	115.4	116.8	119.3	124.7	132.4	142.9	160.1
75°	89.3	89.3	89.3	89.6	90.6	91.8	93.7	96.4	102.4	109.9	121.5
77.5°	66.9	66.9	66.5	66.4	67.8	68.4	68.8	71.4	74.8	79.8	88.2
80°	52.4	50.9	51.5	52.4	53.1	53.4	54.3	55.0	57.8	60.6	66.5
82.5°	39.0	37.7	37.7	39.2	39.4	39.6	40.6	41.5	42.6	45.1	48.3
85°	20.6	20.6	21.0	21.0	21.2	21.0	21.9	22.2	22.2	23.7	25.6
87.5°	12.5	11.9	12.1	12.2	11.9	12.1	12.1	12.2	12.4	12.5	12.2
90°	24.8	24.4	24.1	23.6	23.3	22.7	22.0	21.3	20.5	19.8	17.4
92.5°	33.3	33.6	33.8	34.0	34.2	34.1	33.5	32.9	32.3	31.7	30.3
95°	64.4	64.4	64.4	64.4	64.4	64.1	63.3	62.6	61.9	61.1	59.7
97.5°	99.1	99.2	99.3	99.3	99.4	99.1	98.2	97.3	96.5	95.6	94.6
100°	125.6	125.1	124.8	124.4	124.1	123.6	123.1	122.5	122.0	121.4	120.5
102.5°	152.6	152.7	152.8	152.9	153.0	152.7	152.1	151.6	151.1	150.5	149.3
105°	196.6	196.2	195.8	195.5	195.1	194.9	194.9	194.9	194.9	194.9	193.3
107.5°	242.3	242.6	242.8	243.0	243.2	243.0	242.5	241.9	241.2	240.7	240.0
110°	273.4	273.8	274.1	274.5	274.8	274.7	273.9	273.2	272.5	271.7	271.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	306.5	306.6	306.6	306.6	306.7	306.3	305.4	304.6	303.7	302.8	302.7
115°	351.9	352.0	352.2	352.5	352.6	352.6	352.5	352.2	352.0	351.9	352.2
117.5°	397.9	398.4	399.0	399.5	400.0	400.3	400.3	400.4	400.4	400.5	400.9
120°	430.3	430.7	431.0	431.5	431.8	432.1	432.3	432.4	432.6	432.8	433.7
122.5°	461.4	461.9	462.4	462.9	463.4	464.0	464.4	464.9	465.4	465.9	466.4
125°	508.0	508.7	509.5	510.2	510.9	511.7	512.4	513.1	513.9	514.6	514.9
127.5°	554.4	555.2	556.1	556.9	557.7	558.7	559.8	560.8	561.8	562.8	563.2
130°	584.8	586.1	587.3	588.6	590.0	590.9	591.7	592.4	593.1	593.9	594.4
132.5°	616.5	617.5	618.5	619.5	620.5	621.4	622.3	623.2	624.0	624.9	625.3
135°	665.8	666.1	666.5	666.8	667.2	667.7	668.5	669.2	669.9	670.7	670.9
137.5°	709.2	709.9	710.6	711.3	712.0	712.7	713.5	714.3	715.0	715.8	715.3
140°	737.6	738.9	740.2	741.4	742.7	743.5	743.6	743.9	744.0	744.2	744.0
142.5°	766.7	767.7	768.7	769.6	770.6	771.3	771.4	771.6	771.8	772.0	771.7
145°	808.6	809.3	810.1	810.8	811.5	812.0	812.2	812.4	812.6	812.8	812.2
147.5°	846.0	847.1	848.2	849.3	850.4	850.9	850.9	850.9	850.9	850.9	850.4
150°	869.8	870.9	872.0	873.1	874.2	874.7	874.7	874.7	874.7	874.7	874.3
152.5°	892.9	893.8	894.8	895.8	896.7	897.1	896.7	896.4	896.2	895.9	895.7
155°	924.3	925.6	926.8	928.1	929.4	929.7	929.0	928.2	927.5	926.8	926.6
157.5°	952.8	953.9	955.0	955.9	957.0	957.1	956.3	955.5	954.8	954.0	953.9
160°	971.3	972.1	972.8	973.5	974.3	974.2	973.3	972.4	971.4	970.5	970.5
162.5°	985.2	986.4	987.6	988.8	989.9	990.1	989.1	988.2	987.3	986.4	986.3
165°	1005.3	1006.5	1007.8	1009.1	1010.4	1010.5	1009.3	1008.3	1007.1	1006.1	1006.1
167.5°	1022.2	1023.4	1024.5	1025.6	1026.8	1026.8	1025.6	1024.5	1023.4	1022.2	1022.1
170°	1030.9	1032.1	1033.4	1034.7	1036.0	1036.0	1034.7	1033.4	1032.1	1030.9	1030.9
172.5°	1037.5	1038.7	1040.0	1041.3	1042.6	1042.7	1041.5	1040.4	1039.3	1038.1	1038.1
175°	1044.9	1046.2	1047.4	1048.7	1050.0	1050.1	1049.0	1047.9	1046.8	1045.7	1045.7
177.5°	1048.9	1049.9	1050.9	1051.9	1053.0	1053.0	1052.1	1051.2	1050.4	1049.5	1049.5
180°	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5
2.5°	664.5	662.5	660.5	657.0	654.0	649.7	648.5	647.0	642.5	638.5	635.5
5°	705.1	697.6	686.6	676.6	668.5	657.6	651.3	644.8	635.4	627.0	620.1
7.5°	747.5	732.8	715.8	697.5	680.4	663.8	650.5	638.7	625.6	613.1	603.5
10°	781.3	760.0	736.3	710.7	688.8	667.6	649.8	634.2	617.3	602.7	590.4
12.5°	819.7	788.2	755.5	724.4	698.5	669.1	647.6	627.7	608.6	590.9	577.2
15°	865.3	825.3	786.6	743.8	704.4	667.6	642.0	617.0	594.8	576.7	559.2
17.5°	906.7	861.4	810.4	758.4	710.9	667.2	631.4	603.2	575.4	553.3	535.8
20°	930.2	878.6	820.9	766.9	714.4	665.7	626.4	592.6	562.7	539.2	519.6
22.5°	950.5	890.1	830.4	772.7	714.2	661.7	617.2	582.4	549.9	527.0	506.1
25°	971.4	899.3	839.4	771.6	706.3	652.0	602.0	562.7	530.2	503.4	481.8
27.5°	989.4	898.7	827.5	754.6	694.0	639.5	586.2	544.0	509.5	480.3	458.4
30°	1001.4	899.9	815.3	743.1	682.0	625.7	573.9	531.5	495.2	465.5	445.0
32.5°	1008.9	899.2	804.0	727.2	663.0	613.3	560.7	516.7	479.5	450.4	430.5
35°	1013.3	893.6	784.7	694.1	632.3	583.9	539.9	494.3	455.3	428.1	405.6
37.5°	1004.5	882.2	762.2	662.3	594.6	547.0	509.9	471.1	433.7	403.8	384.4
40°	990.8	874.7	744.7	639.8	568.6	522.7	491.2	453.1	416.2	387.8	369.7
42.5°	964.6	859.4	725.5	614.8	541.6	495.7	466.7	434.9	400.0	373.3	355.2
45°	900.6	826.2	696.7	577.4	501.8	454.4	428.8	405.6	374.1	348.1	332.6
47.5°	811.7	776.3	654.9	537.9	460.2	414.6	387.9	369.3	346.3	325.4	310.4
50°	750.1	735.4	626.7	510.9	432.4	387.8	362.2	345.4	328.8	307.9	294.2
52.5°	678.8	687.9	593.7	482.9	404.2	360.4	336.2	322.9	307.9	290.7	278.7
55°	578.6	611.4	536.8	435.9	362.2	320.4	297.6	285.7	277.0	264.2	253.9
57.5°	484.8	526.4	475.2	387.5	320.9	284.9	263.0	250.1	244.4	237.7	229.7
60°	429.0	470.3	431.2	355.1	293.2	258.9	239.5	228.6	223.0	218.3	211.4
62.5°	379.4	421.0	388.2	322.0	266.0	234.2	217.3	206.6	202.2	199.7	193.9
65°	311.0	346.9	325.1	270.8	227.0	198.9	183.6	176.1	172.0	171.1	167.4
67.5°	253.2	280.5	264.6	224.5	190.1	165.8	152.9	146.5	143.4	143.1	140.2
70°	215.2	240.8	228.6	192.3	162.7	143.7	132.4	126.8	124.9	124.6	123.0
72.5°	185.6	203.5	193.9	163.6	140.7	123.4	115.1	109.3	107.1	107.6	106.6
75°	137.4	150.8	145.2	124.3	105.8	94.6	87.7	84.0	82.1	83.1	81.8
77.5°	98.9	107.4	102.3	87.8	76.5	68.3	63.3	61.0	59.3	59.2	58.6
80°	74.6	79.7	76.8	68.1	58.7	51.9	47.8	46.2	45.2	45.0	44.7
82.5°	53.2	57.4	54.1	48.1	41.7	37.6	35.3	33.3	32.5	32.7	32.4
85°	26.8	28.5	27.1	23.4	21.0	19.1	17.8	16.9	16.2	16.6	15.9
87.5°	12.2	12.0	10.8	9.4	8.5	7.4	7.0	6.2	6.0	6.4	6.5
90°	15.1	12.6	10.3	8.2	6.4	4.5	2.7	0.8	2.7	4.5	6.4
92.5°	29.0	27.6	26.3	24.9	23.7	22.5	21.2	20.0	21.2	22.5	23.7
95°	58.2	56.7	55.3	53.9	52.6	51.3	50.0	48.8	50.0	51.3	52.6
97.5°	93.5	92.5	91.4	90.4	89.4	88.5	87.5	86.6	87.5	88.5	89.4
100°	119.6	118.7	117.7	116.8	115.6	114.5	113.4	112.3	113.4	114.5	115.6
102.5°	148.1	146.8	145.6	144.7	144.1	143.4	142.8	142.1	142.8	143.4	144.1
105°	191.6	190.0	188.3	187.4	186.9	186.6	186.2	185.9	186.2	186.6	186.9
107.5°	239.4	238.7	238.1	237.6	237.4	237.2	236.9	236.8	236.9	237.2	237.4
110°	271.0	270.7	270.3	269.9	269.5	269.2	268.8	268.5	268.8	269.2	269.5





TEST NUMBER: P332133-930

CATALOG NUMBER: S123DIW-S560D1030U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	302.6	302.6	302.5	302.4	302.1	301.9	301.7	301.5	301.7	301.9	302.1
115°	352.6	352.9	353.4	353.3	352.7	352.1	351.6	351.1	351.6	352.1	352.7
117.5°	401.4	401.9	402.4	402.4	402.0	401.7	401.3	401.0	401.3	401.7	402.0
120°	434.6	435.5	436.5	436.4	435.3	434.2	433.1	432.0	433.1	434.2	435.3
122.5°	466.8	467.3	467.7	467.6	466.8	466.0	465.2	464.4	465.2	466.0	466.8
125°	515.4	515.7	516.1	516.0	515.4	514.9	514.3	513.8	514.3	514.9	515.4
127.5°	563.6	564.0	564.4	564.0	562.9	561.7	560.5	559.4	560.5	561.7	562.9
130°	595.0	595.6	596.1	595.7	594.2	592.7	591.3	589.8	591.3	592.7	594.2
132.5°	625.7	626.1	626.6	626.1	624.6	623.1	621.6	620.1	621.6	623.1	624.6
135°	671.1	671.2	671.4	671.0	669.8	668.8	667.6	666.6	667.6	668.8	669.8
137.5°	714.9	714.4	713.9	713.2	712.2	711.3	710.5	709.6	710.5	711.3	712.2
140°	743.9	743.6	743.5	742.9	742.0	741.1	740.2	739.2	740.2	741.1	742.0
142.5°	771.3	770.9	770.6	770.1	769.1	768.2	767.3	766.4	767.3	768.2	769.1
145°	811.7	811.1	810.6	810.1	809.8	809.3	809.0	808.6	809.0	809.3	809.8
147.5°	849.9	849.4	848.9	848.3	847.7	846.9	846.3	845.6	846.3	846.9	847.7
150°	874.0	873.6	873.3	872.9	872.5	872.1	871.8	871.4	871.8	872.1	872.5
152.5°	895.4	895.2	895.0	894.6	894.1	893.6	893.1	892.6	893.1	893.6	894.1
155°	926.4	926.2	926.0	925.9	925.9	925.9	925.9	925.9	925.9	925.9	925.9
157.5°	953.7	953.6	953.4	953.5	953.7	953.9	954.1	954.4	954.1	953.9	953.7
160°	970.5	970.5	970.5	970.7	971.1	971.4	971.8	972.2	971.8	971.4	971.1
162.5°	986.1	985.9	985.8	986.0	986.5	987.0	987.6	988.1	987.6	987.0	986.5
165°	1006.1	1006.1	1006.1	1006.3	1006.9	1007.5	1008.0	1008.5	1008.0	1007.5	1006.9
167.5°	1022.0	1021.8	1021.7	1022.0	1022.7	1023.4	1024.2	1024.9	1024.2	1023.4	1022.7
170°	1030.9	1030.9	1030.9	1031.2	1031.9	1032.7	1033.4	1034.1	1033.4	1032.7	1031.9
172.5°	1038.1	1038.1	1038.1	1038.4	1039.2	1039.9	1040.6	1041.4	1040.6	1039.9	1039.2
175°	1045.7	1045.7	1045.7	1046.1	1046.8	1047.6	1048.3	1049.0	1048.3	1047.6	1046.8
177.5°	1049.5	1049.5	1049.5	1049.8	1050.4	1051.0	1051.6	1052.1	1051.6	1051.0	1050.4
180°	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5



TEST NUMBER: P332133-930

CATALOG NUMBER: S123DIW-S560D1030U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5
2.5°	633.7	632.0	629.5	625.7	622.7	618.0	618.0	618.7	618.7	618.5	618.0
5°	614.5	609.8	604.2	597.7	590.8	583.9	582.7	580.2	578.3	577.1	575.5
7.5°	594.2	586.0	577.7	568.6	560.2	553.3	548.5	544.5	541.8	539.2	537.1
10°	580.5	570.1	560.5	550.8	540.2	531.7	526.4	522.7	519.9	517.4	516.2
12.5°	564.3	552.4	541.8	532.6	521.0	512.3	507.2	505.5	502.1	496.9	494.2
15°	540.5	529.6	516.8	507.7	497.1	486.5	480.5	477.8	475.9	471.8	470.6
17.5°	520.2	505.9	491.5	481.0	470.6	462.0	458.7	455.2	452.7	449.4	448.4
20°	504.0	491.2	478.1	466.8	455.9	446.5	443.7	441.2	438.7	437.2	435.9
22.5°	487.5	474.7	463.8	453.3	441.6	435.5	432.4	429.7	428.0	426.9	425.7
25°	464.3	453.1	440.9	431.5	422.2	418.1	416.2	414.7	413.4	411.9	411.6
27.5°	443.6	431.4	421.5	412.7	406.0	402.6	400.8	400.1	400.3	400.9	401.2
30°	428.1	416.9	408.7	401.2	395.0	391.9	391.6	391.6	392.8	393.1	393.8
32.5°	413.8	404.6	396.5	389.2	384.5	382.4	383.6	383.6	384.6	385.4	386.5
35°	393.1	385.0	378.8	372.5	368.4	369.4	370.0	370.6	372.2	374.1	375.4
37.5°	373.3	366.3	359.8	354.9	353.0	354.7	356.2	357.5	359.4	360.8	362.0
40°	359.1	353.8	347.6	343.2	343.8	344.7	346.0	347.6	349.1	350.0	351.3
42.5°	345.8	340.3	335.6	331.9	332.8	334.0	334.8	335.6	337.4	339.1	339.8
45°	325.7	321.3	316.9	314.8	315.4	316.0	316.7	317.6	319.1	320.4	320.7
47.5°	303.0	299.9	297.0	294.9	295.9	295.6	296.4	298.5	299.0	299.7	301.4
50°	288.5	285.7	282.3	281.7	281.7	281.7	281.9	284.5	284.5	285.7	287.0
52.5°	272.6	270.8	268.6	267.4	266.9	266.9	268.2	269.5	269.9	271.7	273.0
55°	248.8	247.0	245.2	244.2	243.5	244.2	246.7	247.3	248.8	249.8	250.7
57.5°	224.2	222.7	221.3	220.8	220.6	221.4	222.8	224.7	225.1	228.0	229.3
60°	208.0	205.8	204.6	204.6	203.9	206.7	206.1	209.2	209.9	211.7	213.9
62.5°	191.2	188.3	187.8	187.8	188.7	189.5	190.4	191.8	193.4	195.8	197.4
65°	164.3	162.7	164.9	164.5	164.0	165.8	165.8	167.4	169.3	171.5	174.9
67.5°	138.7	137.9	138.1	138.1	139.0	140.1	141.0	142.4	144.6	146.9	149.1
70°	121.5	122.4	120.8	122.1	123.0	123.4	123.9	125.8	128.3	129.9	132.4
72.5°	104.8	104.7	104.8	105.3	106.3	106.9	107.5	109.6	112.3	113.7	115.7
75°	80.6	80.2	81.2	81.2	82.8	83.4	84.0	85.0	87.4	89.3	90.9
77.5°	58.9	59.2	59.0	60.1	59.7	59.8	61.7	62.6	62.9	66.6	67.4
80°	44.4	45.0	45.2	45.6	45.9	45.2	47.5	48.4	48.4	50.5	52.2
82.5°	31.9	32.2	33.0	33.3	33.4	34.0	34.2	34.9	35.6	36.6	38.6
85°	15.9	16.9	17.2	16.9	17.2	16.6	17.4	17.8	18.1	18.1	18.1
87.5°	6.6	7.3	7.5	8.2	8.5	9.2	9.4	9.0	9.1	10.0	9.1
90°	8.2	10.3	12.6	15.1	17.4	19.8	20.5	21.3	22.0	22.7	23.3
92.5°	24.9	26.3	27.6	29.0	30.3	31.7	32.3	32.9	33.5	34.1	34.2
95°	53.9	55.3	56.7	58.2	59.7	61.1	61.9	62.6	63.3	64.1	64.4
97.5°	90.4	91.4	92.5	93.5	94.6	95.6	96.5	97.3	98.2	99.1	99.4
100°	116.8	117.7	118.7	119.6	120.5	121.4	122.0	122.5	123.1	123.6	124.1
102.5°	144.7	145.6	146.8	148.1	149.3	150.5	151.1	151.6	152.1	152.7	153.0
105°	187.4	188.3	190.0	191.6	193.3	194.9	194.9	194.9	194.9	194.9	195.1
107.5°	237.6	238.1	238.7	239.4	240.0	240.7	241.2	241.9	242.5	243.0	243.2
110°	269.9	270.3	270.7	271.0	271.4	271.7	272.5	273.2	273.9	274.7	274.8



TEST NUMBER: P332133-930

CATALOG NUMBER: S123DIW-S560D1030U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	302.4	302.5	302.6	302.6	302.7	302.8	303.7	304.6	305.4	306.3	306.7
115°	353.3	353.4	352.9	352.6	352.2	351.9	352.0	352.2	352.5	352.6	352.6
117.5°	402.4	402.4	401.9	401.4	400.9	400.5	400.4	400.4	400.3	400.3	400.0
120°	436.4	436.5	435.5	434.6	433.7	432.8	432.6	432.4	432.3	432.1	431.8
122.5°	467.6	467.7	467.3	466.8	466.4	465.9	465.4	464.9	464.4	464.0	463.4
125°	516.0	516.1	515.7	515.4	514.9	514.6	513.9	513.1	512.4	511.7	510.9
127.5°	564.0	564.4	564.0	563.6	563.2	562.8	561.8	560.8	559.8	558.7	557.7
130°	595.7	596.1	595.6	595.0	594.4	593.9	593.1	592.4	591.7	590.9	590.0
132.5°	626.1	626.6	626.1	625.7	625.3	624.9	624.0	623.2	622.3	621.4	620.5
135°	671.0	671.4	671.2	671.1	670.9	670.7	669.9	669.2	668.5	667.7	667.2
137.5°	713.2	713.9	714.4	714.9	715.3	715.8	715.0	714.3	713.5	712.7	712.0
140°	742.9	743.5	743.6	743.9	744.0	744.2	744.0	743.9	743.6	743.5	742.7
142.5°	770.1	770.6	770.9	771.3	771.7	772.0	771.8	771.6	771.4	771.3	770.6
145°	810.1	810.6	811.1	811.7	812.2	812.8	812.6	812.4	812.2	812.0	811.5
147.5°	848.3	848.9	849.4	849.9	850.4	850.9	850.9	850.9	850.9	850.9	850.4
150°	872.9	873.3	873.6	874.0	874.3	874.7	874.7	874.7	874.7	874.7	874.2
152.5°	894.6	895.0	895.2	895.4	895.7	895.9	896.2	896.4	896.7	897.1	896.7
155°	925.9	926.0	926.2	926.4	926.6	926.8	927.5	928.2	929.0	929.7	929.4
157.5°	953.5	953.4	953.6	953.7	953.9	954.0	954.8	955.5	956.3	957.1	957.0
160°	970.7	970.5	970.5	970.5	970.5	970.5	971.4	972.4	973.3	974.2	974.3
162.5°	986.0	985.8	985.9	986.1	986.3	986.4	987.3	988.2	989.1	990.1	989.9
165°	1006.3	1006.1	1006.1	1006.1	1006.1	1006.1	1007.1	1008.3	1009.3	1010.5	1010.4
167.5°	1022.0	1021.7	1021.8	1022.0	1022.1	1022.2	1023.4	1024.5	1025.6	1026.8	1026.8
170°	1031.2	1030.9	1030.9	1030.9	1030.9	1030.9	1032.1	1033.4	1034.7	1036.0	1036.0
172.5°	1038.4	1038.1	1038.1	1038.1	1038.1	1038.1	1039.3	1040.4	1041.5	1042.7	1042.6
175°	1046.1	1045.7	1045.7	1045.7	1045.7	1045.7	1046.8	1047.9	1049.0	1050.1	1050.0
177.5°	1049.8	1049.5	1049.5	1049.5	1049.5	1049.5	1050.4	1051.2	1052.1	1053.0	1053.0
180°	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5



TEST NUMBER: P332133-930

CATALOG NUMBER: S123DIW-S560D1030U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5
2.5°	616.3	616.0	617.8	616.5	617.8	616.0	616.3	618.0	618.5	618.7	618.7
5°	573.6	574.5	571.4	571.4	571.4	574.5	573.6	575.5	577.1	578.3	580.2
7.5°	535.7	534.3	534.4	532.7	534.4	534.3	535.7	537.1	539.2	541.8	544.5
10°	512.4	510.5	509.9	510.2	509.9	510.5	512.4	516.2	517.4	519.9	522.7
12.5°	493.2	492.8	488.7	488.8	488.7	492.8	493.2	494.2	496.9	502.1	505.5
15°	470.6	464.6	464.0	465.9	464.0	464.6	470.6	470.6	471.8	475.9	477.8
17.5°	447.9	444.7	445.0	444.0	445.0	444.7	447.9	448.4	449.4	452.7	455.2
20°	435.9	434.1	433.7	431.5	433.7	434.1	435.9	435.9	437.2	438.7	441.2
22.5°	424.9	424.3	424.4	422.1	424.4	424.3	424.9	425.7	426.9	428.0	429.7
25°	411.2	412.8	411.6	411.6	411.6	412.8	411.2	411.6	411.9	413.4	414.7
27.5°	402.0	401.9	401.3	401.3	401.3	401.9	402.0	401.2	400.9	400.3	400.1
30°	395.0	394.7	395.3	395.3	395.3	394.7	395.0	393.8	393.1	392.8	391.6
32.5°	388.0	388.4	388.6	388.8	388.6	388.4	388.0	386.5	385.4	384.6	383.6
35°	377.2	377.5	378.5	377.8	378.5	377.5	377.2	375.4	374.1	372.2	370.6
37.5°	362.6	364.0	363.7	364.2	363.7	364.0	362.6	362.0	360.8	359.4	357.5
40°	351.6	352.5	352.2	352.2	352.2	352.5	351.6	351.3	350.0	349.1	347.6
42.5°	340.4	341.0	340.2	339.7	340.2	341.0	340.4	339.8	339.1	337.4	335.6
45°	322.0	321.3	322.3	321.0	322.3	321.3	322.0	320.7	320.4	319.1	317.6
47.5°	301.3	302.0	302.2	303.1	302.2	302.0	301.3	301.4	299.7	299.0	298.5
50°	287.6	289.4	289.4	289.2	289.4	289.4	287.6	287.0	285.7	284.5	284.5
52.5°	274.1	275.0	276.2	276.1	276.2	275.0	274.1	273.0	271.7	269.9	269.5
55°	253.2	253.9	254.5	254.8	254.5	253.9	253.2	250.7	249.8	248.8	247.3
57.5°	231.6	231.4	232.8	233.3	232.8	231.4	231.6	229.3	228.0	225.1	224.7
60°	216.4	216.4	218.9	219.8	218.9	216.4	216.4	213.9	211.7	209.9	209.2
62.5°	200.2	201.1	203.7	202.4	203.7	201.1	200.2	197.4	195.8	193.4	191.8
65°	176.4	179.0	178.6	179.9	178.6	179.0	176.4	174.9	171.5	169.3	167.4
67.5°	151.6	153.2	155.5	155.6	155.5	153.2	151.6	149.1	146.9	144.6	142.4
70°	134.9	136.5	137.7	138.6	137.7	136.5	134.9	132.4	129.9	128.3	125.8
72.5°	118.6	119.4	122.5	121.2	122.5	119.4	118.6	115.7	113.7	112.3	109.6
75°	93.0	95.2	97.1	96.2	97.1	95.2	93.0	90.9	89.3	87.4	85.0
77.5°	68.8	71.0	71.9	71.1	71.9	71.0	68.8	67.4	66.6	62.9	62.6
80°	54.3	54.1	55.9	55.6	55.9	54.1	54.3	52.2	50.5	48.4	48.4
82.5°	39.9	39.5	40.4	40.6	40.4	39.5	39.9	38.6	36.6	35.6	34.9
85°	19.3	20.3	19.1	18.8	19.1	20.3	19.3	18.1	18.1	18.1	17.8
87.5°	9.2	9.3	9.1	9.0	9.1	9.3	9.2	9.1	10.0	9.1	9.0
90°	23.6	24.1	24.4	24.8	24.4	24.1	23.6	23.3	22.7	22.0	21.3
92.5°	34.0	33.8	33.6	33.3	33.6	33.8	34.0	34.2	34.1	33.5	32.9
95°	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.1	63.3	62.6
97.5°	99.3	99.3	99.2	99.1	99.2	99.3	99.3	99.4	99.1	98.2	97.3
100°	124.4	124.8	125.1	125.6	125.1	124.8	124.4	124.1	123.6	123.1	122.5
102.5°	152.9	152.8	152.7	152.6	152.7	152.8	152.9	153.0	152.7	152.1	151.6
105°	195.5	195.8	196.2	196.6	196.2	195.8	195.5	195.1	194.9	194.9	194.9
107.5°	243.0	242.8	242.6	242.3	242.6	242.8	243.0	243.2	243.0	242.5	241.9
110°	274.5	274.1	273.8	273.4	273.8	274.1	274.5	274.8	274.7	273.9	273.2



TEST NUMBER: P332133-930

CATALOG NUMBER: S123DIW-S560D1030U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	306.6	306.6	306.6	306.5	306.6	306.6	306.6	306.7	306.3	305.4	304.6
115°	352.5	352.2	352.0	351.9	352.0	352.2	352.5	352.6	352.6	352.5	352.2
117.5°	399.5	399.0	398.4	397.9	398.4	399.0	399.5	400.0	400.3	400.3	400.4
120°	431.5	431.0	430.7	430.3	430.7	431.0	431.5	431.8	432.1	432.3	432.4
122.5°	462.9	462.4	461.9	461.4	461.9	462.4	462.9	463.4	464.0	464.4	464.9
125°	510.2	509.5	508.7	508.0	508.7	509.5	510.2	510.9	511.7	512.4	513.1
127.5°	556.9	556.1	555.2	554.4	555.2	556.1	556.9	557.7	558.7	559.8	560.8
130°	588.6	587.3	586.1	584.8	586.1	587.3	588.6	590.0	590.9	591.7	592.4
132.5°	619.5	618.5	617.5	616.5	617.5	618.5	619.5	620.5	621.4	622.3	623.2
135°	666.8	666.5	666.1	665.8	666.1	666.5	666.8	667.2	667.7	668.5	669.2
137.5°	711.3	710.6	709.9	709.2	709.9	710.6	711.3	712.0	712.7	713.5	714.3
140°	741.4	740.2	738.9	737.6	738.9	740.2	741.4	742.7	743.5	743.6	743.9
142.5°	769.6	768.7	767.7	766.7	767.7	768.7	769.6	770.6	771.3	771.4	771.6
145°	810.8	810.1	809.3	808.6	809.3	810.1	810.8	811.5	812.0	812.2	812.4
147.5°	849.3	848.2	847.1	846.0	847.1	848.2	849.3	850.4	850.9	850.9	850.9
150°	873.1	872.0	870.9	869.8	870.9	872.0	873.1	874.2	874.7	874.7	874.7
152.5°	895.8	894.8	893.8	892.9	893.8	894.8	895.8	896.7	897.1	896.7	896.4
155°	928.1	926.8	925.6	924.3	925.6	926.8	928.1	929.4	929.7	929.0	928.2
157.5°	955.9	955.0	953.9	952.8	953.9	955.0	955.9	957.0	957.1	956.3	955.5
160°	973.5	972.8	972.1	971.3	972.1	972.8	973.5	974.3	974.2	973.3	972.4
162.5°	988.8	987.6	986.4	985.2	986.4	987.6	988.8	989.9	990.1	989.1	988.2
165°	1009.1	1007.8	1006.5	1005.3	1006.5	1007.8	1009.1	1010.4	1010.5	1009.3	1008.3
167.5°	1025.6	1024.5	1023.4	1022.2	1023.4	1024.5	1025.6	1026.8	1026.8	1025.6	1024.5
170°	1034.7	1033.4	1032.1	1030.9	1032.1	1033.4	1034.7	1036.0	1036.0	1034.7	1033.4
172.5°	1041.3	1040.0	1038.7	1037.5	1038.7	1040.0	1041.3	1042.6	1042.7	1041.5	1040.4
175°	1048.7	1047.4	1046.2	1044.9	1046.2	1047.4	1048.7	1050.0	1050.1	1049.0	1047.9
177.5°	1051.9	1050.9	1049.9	1048.9	1049.9	1050.9	1051.9	1053.0	1053.0	1052.1	1051.2
180°	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5



TEST NUMBER: P332133-930

CATALOG NUMBER: S123DIW-S560D1030U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5
2.5°	618.0	618.0	622.7	625.7	629.5	632.0	633.7	635.5	638.5	642.5	647.0
5°	582.7	583.9	590.8	597.7	604.2	609.8	614.5	620.1	627.0	635.4	644.8
7.5°	548.5	553.3	560.2	568.6	577.7	586.0	594.2	603.5	613.1	625.6	638.7
10°	526.4	531.7	540.2	550.8	560.5	570.1	580.5	590.4	602.7	617.3	634.2
12.5°	507.2	512.3	521.0	532.6	541.8	552.4	564.3	577.2	590.9	608.6	627.7
15°	480.5	486.5	497.1	502.7	516.8	529.6	540.5	559.2	576.7	594.8	617.0
17.5°	458.7	462.0	470.6	481.0	491.5	505.9	520.2	535.8	553.3	575.4	603.2
20°	443.7	446.5	455.9	466.8	478.1	491.2	504.0	519.6	539.2	562.7	592.6
22.5°	432.4	435.5	441.6	453.3	463.8	474.7	487.5	506.1	527.0	549.9	582.4
25°	416.2	418.1	422.2	431.5	440.9	453.1	464.3	481.8	503.4	530.2	562.7
27.5°	400.8	402.6	406.0	412.7	421.5	431.4	443.6	458.4	480.3	509.5	544.0
30°	391.6	391.9	395.0	401.2	408.7	416.9	428.1	445.0	465.5	495.2	531.5
32.5°	383.6	382.4	384.5	389.2	396.5	404.6	413.8	430.5	450.4	479.5	516.7
35°	370.0	369.4	368.4	372.5	378.8	385.0	393.1	405.6	428.1	455.3	494.3
37.5°	356.2	354.7	353.0	354.9	359.8	366.3	373.3	384.4	403.8	433.7	471.1
40°	346.0	344.7	343.8	343.2	347.6	353.8	359.1	369.7	387.8	416.2	453.1
42.5°	334.8	334.0	332.8	331.9	335.6	340.3	345.8	355.2	373.3	400.0	434.9
45°	316.7	316.0	315.4	314.8	316.9	321.3	325.7	332.6	348.1	374.1	405.6
47.5°	296.4	295.6	295.9	294.9	297.0	299.9	303.0	310.4	325.4	346.3	369.3
50°	281.9	281.7	281.7	281.7	282.3	285.7	288.5	294.2	307.9	328.8	345.4
52.5°	268.2	266.9	266.9	267.4	268.6	270.8	272.6	278.7	290.7	307.9	322.9
55°	246.7	244.2	243.5	244.2	245.2	247.0	248.8	253.9	264.2	277.0	285.7
57.5°	222.8	221.4	220.6	220.8	221.3	222.7	224.2	229.7	237.7	244.4	250.1
60°	206.1	206.7	203.9	204.6	204.6	205.8	208.0	211.4	218.3	223.0	228.6
62.5°	190.4	189.5	188.7	187.8	187.8	188.3	191.2	193.9	199.7	202.2	206.6
65°	165.8	165.8	164.0	164.5	164.9	162.7	164.3	167.4	171.1	172.0	176.1
67.5°	141.0	140.1	139.0	138.1	138.1	137.9	138.7	140.2	143.1	143.4	146.5
70°	123.9	123.4	123.0	122.1	120.8	122.4	121.5	123.0	124.6	124.9	126.8
72.5°	107.5	106.9	106.3	105.3	104.8	104.7	104.8	106.6	107.6	107.1	109.3
75°	84.0	83.4	82.8	81.2	81.2	80.2	80.6	81.8	83.1	82.1	84.0
77.5°	61.7	59.8	59.7	60.1	59.0	59.2	58.9	58.6	59.2	59.3	61.0
80°	47.5	45.2	45.9	45.6	45.2	45.0	44.4	44.7	45.0	45.2	46.2
82.5°	34.2	34.0	33.4	33.3	33.0	32.2	31.9	32.4	32.7	32.5	33.3
85°	17.4	16.6	17.2	16.9	17.2	16.9	15.9	15.9	16.6	16.2	16.9
87.5°	9.4	9.2	8.5	8.2	7.5	7.3	6.6	6.5	6.4	6.0	6.2
90°	20.5	19.8	17.4	15.1	12.6	10.3	8.2	6.4	4.5	2.7	0.8
92.5°	32.3	31.7	30.3	29.0	27.6	26.3	24.9	23.7	22.5	21.2	20.0
95°	61.9	61.1	59.7	58.2	56.7	55.3	53.9	52.6	51.3	50.0	48.8
97.5°	96.5	95.6	94.6	93.5	92.5	91.4	90.4	89.4	88.5	87.5	86.6
100°	122.0	121.4	120.5	119.6	118.7	117.7	116.8	115.6	114.5	113.4	112.3
102.5°	151.1	150.5	149.3	148.1	146.8	145.6	144.7	144.1	143.4	142.8	142.1
105°	194.9	194.9	193.3	191.6	190.0	188.3	187.4	186.9	186.6	186.2	185.9
107.5°	241.2	240.7	240.0	239.4	238.7	238.1	237.6	237.4	237.2	236.9	236.8
110°	272.5	271.7	271.4	271.0	270.7	270.3	269.9	269.5	269.2	268.8	268.5



TEST NUMBER: P332133-930

CATALOG NUMBER: S123DIW-S560D1030U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	303.7	302.8	302.7	302.6	302.6	302.5	302.4	302.1	301.9	301.7	301.5
115°	352.0	351.9	352.2	352.6	352.9	353.4	353.3	352.7	352.1	351.6	351.1
117.5°	400.4	400.5	400.9	401.4	401.9	402.4	402.4	402.0	401.7	401.3	401.0
120°	432.6	432.8	433.7	434.6	435.5	436.5	436.4	435.3	434.2	433.1	432.0
122.5°	465.4	465.9	466.4	466.8	467.3	467.7	467.6	466.8	466.0	465.2	464.4
125°	513.9	514.6	514.9	515.4	515.7	516.1	516.0	515.4	514.9	514.3	513.8
127.5°	561.8	562.8	563.2	563.6	564.0	564.4	564.0	562.9	561.7	560.5	559.4
130°	593.1	593.9	594.4	595.0	595.6	596.1	595.7	594.2	592.7	591.3	589.8
132.5°	624.0	624.9	625.3	625.7	626.1	626.6	626.1	624.6	623.1	621.6	620.1
135°	669.9	670.7	670.9	671.1	671.2	671.4	671.0	669.8	668.8	667.6	666.6
137.5°	715.0	715.8	715.3	714.9	714.4	713.9	713.2	712.2	711.3	710.5	709.6
140°	744.0	744.2	744.0	743.9	743.6	743.5	742.9	742.0	741.1	740.2	739.2
142.5°	771.8	772.0	771.7	771.3	770.9	770.6	770.1	769.1	768.2	767.3	766.4
145°	812.6	812.8	812.2	811.7	811.1	810.6	810.1	809.8	809.3	809.0	808.6
147.5°	850.9	850.9	850.4	849.9	849.4	848.9	848.3	847.7	846.9	846.3	845.6
150°	874.7	874.7	874.3	874.0	873.6	873.3	872.9	872.5	872.1	871.8	871.4
152.5°	896.2	895.9	895.7	895.4	895.2	895.0	894.6	894.1	893.6	893.1	892.6
155°	927.5	926.8	926.6	926.4	926.2	926.0	925.9	925.9	925.9	925.9	925.9
157.5°	954.8	954.0	953.9	953.7	953.6	953.4	953.5	953.7	953.9	954.1	954.4
160°	971.4	970.5	970.5	970.5	970.5	970.5	970.7	971.1	971.4	971.8	972.2
162.5°	987.3	986.4	986.3	986.1	985.9	985.8	986.0	986.5	987.0	987.6	988.1
165°	1007.1	1006.1	1006.1	1006.1	1006.1	1006.1	1006.3	1006.9	1007.5	1008.0	1008.5
167.5°	1023.4	1022.2	1022.1	1022.0	1021.8	1021.7	1022.0	1022.7	1023.4	1024.2	1024.9
170°	1032.1	1030.9	1030.9	1030.9	1030.9	1030.9	1031.2	1031.9	1032.7	1033.4	1034.1
172.5°	1039.3	1038.1	1038.1	1038.1	1038.1	1038.1	1038.4	1039.2	1039.9	1040.6	1041.4
175°	1046.8	1045.7	1045.7	1045.7	1045.7	1045.7	1046.1	1046.8	1047.6	1048.3	1049.0
177.5°	1050.4	1049.5	1049.5	1049.5	1049.5	1049.5	1049.8	1050.4	1051.0	1051.6	1052.1
180°	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5



TEST NUMBER: P332133-930

CATALOG NUMBER: S123DIW-S560D1030U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5
2.5°	648.5	649.7	654.0	657.0	660.5	662.5	664.5	666.0	668.0	668.5	675.7
5°	651.3	657.6	668.5	676.6	686.6	697.6	705.1	708.5	717.5	725.0	740.0
7.5°	650.5	663.8	680.4	697.5	715.8	732.8	747.5	765.0	777.5	796.1	814.6
10°	649.8	667.6	688.8	710.7	736.3	760.0	781.3	805.0	824.7	850.6	872.8
12.5°	647.6	669.1	698.5	724.4	755.5	788.2	819.7	850.2	867.6	910.8	931.2
15°	642.0	667.6	704.4	743.8	786.6	825.3	865.3	897.1	948.6	986.4	1010.5
17.5°	631.4	667.2	710.9	758.4	810.4	861.4	906.7	955.0	1009.7	1055.4	1104.2
20°	626.4	665.7	714.4	766.9	820.9	878.6	930.2	988.3	1047.9	1092.9	1155.4
22.5°	617.2	661.7	714.2	772.7	830.4	890.1	950.5	1009.0	1077.9	1139.9	1199.3
25°	602.0	652.0	706.3	771.6	839.4	899.3	971.4	1049.2	1121.0	1200.6	1260.0
27.5°	586.2	639.5	694.0	754.6	827.5	898.7	989.4	1077.3	1165.1	1233.9	1277.7
30°	573.9	625.7	682.0	743.1	815.3	899.9	1001.4	1097.2	1182.8	1241.9	1266.5
32.5°	560.7	613.3	663.0	727.2	804.0	899.2	1008.9	1109.0	1183.8	1223.1	1218.3
35°	539.9	583.9	632.3	694.1	784.7	893.6	1013.3	1110.0	1155.9	1147.5	1083.9
37.5°	509.9	547.0	594.6	662.3	762.2	882.2	1004.5	1077.2	1074.2	1005.5	913.2
40°	491.2	522.7	568.6	639.8	744.7	874.7	990.8	1038.0	998.0	902.1	791.6
42.5°	466.7	495.7	541.6	614.8	725.5	859.4	964.6	978.2	900.0	789.7	688.4
45°	428.8	454.4	501.8	577.4	696.7	826.2	900.6	867.2	761.9	647.9	570.8
47.5°	387.9	414.6	460.2	537.9	654.9	776.3	811.7	740.7	632.6	540.2	469.4
50°	362.2	387.8	432.4	510.9	626.7	735.4	750.1	658.3	559.0	477.8	419.6
52.5°	336.2	360.4	404.2	482.9	593.7	687.9	678.8	585.3	494.0	424.8	379.2
55°	297.6	320.4	362.2	435.9	536.8	611.4	578.6	489.3	413.8	360.0	325.4
57.5°	263.0	284.9	320.9	387.5	475.2	526.4	484.8	409.5	349.4	308.1	282.3
60°	239.5	258.9	293.2	355.1	431.2	470.3	429.0	362.6	311.9	278.8	255.8
62.5°	217.3	234.2	266.0	322.0	388.2	421.0	379.4	323.0	280.0	250.6	231.0
65°	183.6	198.9	227.0	270.8	325.1	346.9	311.0	265.4	232.0	210.2	197.1
67.5°	152.9	165.8	190.1	224.5	264.6	280.5	253.2	217.8	192.7	175.1	164.7
70°	132.4	143.7	162.7	192.3	228.6	240.8	215.2	186.1	167.7	153.6	144.0
72.5°	115.1	123.4	140.7	163.6	193.9	203.5	185.6	160.1	142.9	132.4	124.7
75°	87.7	94.6	105.8	124.3	145.2	150.8	137.4	121.5	109.9	102.4	96.4
77.5°	63.3	68.3	76.5	87.8	102.3	107.4	98.9	88.2	79.8	74.8	71.4
80°	47.8	51.9	58.7	68.1	76.8	79.7	74.6	66.5	60.6	57.8	55.0
82.5°	35.3	37.6	41.7	48.1	54.1	57.4	53.2	48.3	45.1	42.6	41.5
85°	17.8	19.1	21.0	23.4	27.1	28.5	26.8	25.6	23.7	22.2	22.2
87.5°	7.0	7.4	8.5	9.4	10.8	12.0	12.2	12.2	12.5	12.4	12.2
90°	2.7	4.5	6.4	8.2	10.3	12.6	15.1	17.4	19.8	20.5	21.3
92.5°	21.2	22.5	23.7	24.9	26.3	27.6	29.0	30.3	31.7	32.3	32.9
95°	50.0	51.3	52.6	53.9	55.3	56.7	58.2	59.7	61.1	61.9	62.6
97.5°	87.5	88.5	89.4	90.4	91.4	92.5	93.5	94.6	95.6	96.5	97.3
100°	113.4	114.5	115.6	116.8	117.7	118.7	119.6	120.5	121.4	122.0	122.5
102.5°	142.8	143.4	144.1	144.7	145.6	146.8	148.1	149.3	150.5	151.1	151.6
105°	186.2	186.6	186.9	187.4	188.3	190.0	191.6	193.3	194.9	194.9	194.9
107.5°	236.9	237.2	237.4	237.6	238.1	238.7	239.4	240.0	240.7	241.2	241.9
110°	268.8	269.2	269.5	269.9	270.3	270.7	271.0	271.4	271.7	272.5	273.2





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	301.7	301.9	302.1	302.4	302.5	302.6	302.6	302.7	302.8	303.7	304.6
115°	351.6	352.1	352.7	353.3	353.4	352.9	352.6	352.2	351.9	352.0	352.2
117.5°	401.3	401.7	402.0	402.4	402.4	401.9	401.4	400.9	400.5	400.4	400.4
120°	433.1	434.2	435.3	436.4	436.5	435.5	434.6	433.7	432.8	432.6	432.4
122.5°	465.2	466.0	466.8	467.6	467.7	467.3	466.8	466.4	465.9	465.4	464.9
125°	514.3	514.9	515.4	516.0	516.1	515.7	515.4	514.9	514.6	513.9	513.1
127.5°	560.5	561.7	562.9	564.0	564.4	564.0	563.6	563.2	562.8	561.8	560.8
130°	591.3	592.7	594.2	595.7	596.1	595.6	595.0	594.4	593.9	593.1	592.4
132.5°	621.6	623.1	624.6	626.1	626.6	626.1	625.7	625.3	624.9	624.0	623.2
135°	667.6	668.8	669.8	671.0	671.4	671.2	671.1	670.9	670.7	669.9	669.2
137.5°	710.5	711.3	712.2	713.2	713.9	714.4	714.9	715.3	715.8	715.0	714.3
140°	740.2	741.1	742.0	742.9	743.5	743.6	743.9	744.0	744.2	744.0	743.9
142.5°	767.3	768.2	769.1	770.1	770.6	770.9	771.3	771.7	772.0	771.8	771.6
145°	809.0	809.3	809.8	810.1	810.6	811.1	811.7	812.2	812.8	812.6	812.4
147.5°	846.3	846.9	847.7	848.3	848.9	849.4	849.9	850.4	850.9	850.9	850.9
150°	871.8	872.1	872.5	872.9	873.3	873.6	874.0	874.3	874.7	874.7	874.7
152.5°	893.1	893.6	894.1	894.6	895.0	895.2	895.4	895.7	895.9	896.2	896.4
155°	925.9	925.9	925.9	925.9	926.0	926.2	926.4	926.6	926.8	927.5	928.2
157.5°	954.1	953.9	953.7	953.5	953.4	953.6	953.7	953.9	954.0	954.8	955.5
160°	971.8	971.4	971.1	970.7	970.5	970.5	970.5	970.5	970.5	971.4	972.4
162.5°	987.6	987.0	986.5	986.0	985.8	985.9	986.1	986.3	986.4	987.3	988.2
165°	1008.0	1007.5	1006.9	1006.3	1006.1	1006.1	1006.1	1006.1	1006.1	1007.1	1008.3
167.5°	1024.2	1023.4	1022.7	1022.0	1021.7	1021.8	1022.0	1022.1	1022.2	1023.4	1024.5
170°	1033.4	1032.7	1031.9	1031.2	1030.9	1030.9	1030.9	1030.9	1030.9	1032.1	1033.4
172.5°	1040.6	1039.9	1039.2	1038.4	1038.1	1038.1	1038.1	1038.1	1038.1	1039.3	1040.4
175°	1048.3	1047.6	1046.8	1046.1	1045.7	1045.7	1045.7	1045.7	1045.7	1046.8	1047.9
177.5°	1051.6	1051.0	1050.4	1049.8	1049.5	1049.5	1049.5	1049.5	1049.5	1050.4	1051.2
180°	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	644.5	644.5	644.5	644.5	644.5	644.5	644.5
2.5°	678.2	678.5	681.2	683.2	682.2	683.5	684.0
5°	740.9	752.2	758.1	762.5	762.9	763.1	765.6
7.5°	830.0	842.0	850.8	864.2	868.2	872.8	871.5
10°	895.0	912.7	928.1	936.1	944.9	957.7	947.4
12.5°	955.6	987.2	1010.5	1023.0	1031.4	1033.9	1028.8
15°	1055.7	1097.0	1119.2	1118.5	1146.6	1158.8	1139.7
17.5°	1147.5	1185.6	1216.0	1231.7	1255.1	1260.3	1257.9
20°	1203.7	1245.3	1269.0	1295.8	1308.1	1319.0	1320.9
22.5°	1252.2	1289.5	1315.0	1337.3	1347.5	1352.7	1355.8
25°	1302.1	1331.5	1346.8	1354.5	1357.4	1356.7	1352.7
27.5°	1298.7	1300.9	1284.1	1267.5	1252.7	1236.0	1230.3
30°	1264.9	1238.7	1191.9	1165.3	1126.3	1095.4	1107.9
32.5°	1176.2	1124.1	1071.5	1013.4	965.4	951.8	938.0
35°	1003.9	912.1	858.4	796.0	770.9	746.0	728.8
37.5°	812.2	741.2	677.4	636.6	611.6	595.8	587.3
40°	702.3	638.2	585.8	552.7	533.6	515.8	513.3
42.5°	614.6	555.1	515.6	489.3	470.9	463.4	457.9
45°	503.4	461.8	435.3	416.5	404.4	399.7	393.5
47.5°	426.1	396.7	376.7	364.0	354.8	351.3	350.8
50°	382.9	358.5	343.8	333.8	326.6	325.4	320.4
52.5°	350.3	329.2	317.8	309.1	303.9	300.4	298.9
55°	304.1	290.1	279.8	274.8	270.8	267.3	267.3
57.5°	266.1	254.4	247.5	243.3	242.1	239.6	238.1
60°	242.6	232.6	227.3	223.6	221.1	221.4	218.6
62.5°	219.6	213.1	208.1	204.3	201.4	201.4	201.6
65°	187.0	182.1	178.3	177.1	175.2	173.0	173.6
67.5°	158.5	153.8	150.9	148.8	148.1	146.9	148.8
70°	138.0	134.6	132.4	130.5	129.9	130.2	131.8
72.5°	119.3	116.8	115.4	114.5	113.2	113.2	114.3
75°	93.7	91.8	90.6	89.6	89.3	89.3	89.3
77.5°	68.8	68.4	67.8	66.4	66.5	66.9	66.9
80°	54.3	53.4	53.1	52.4	51.5	50.9	52.4
82.5°	40.6	39.6	39.4	39.2	37.7	37.7	39.0
85°	21.9	21.0	21.2	21.0	21.0	20.6	20.6
87.5°	12.1	12.1	11.9	12.2	12.1	11.9	12.5
90°	22.0	22.7	23.3	23.6	24.1	24.4	24.8
92.5°	33.5	34.1	34.2	34.0	33.8	33.6	33.3
95°	63.3	64.1	64.4	64.4	64.4	64.4	64.4
97.5°	98.2	99.1	99.4	99.3	99.3	99.2	99.1
100°	123.1	123.6	124.1	124.4	124.8	125.1	125.6
102.5°	152.1	152.7	153.0	152.9	152.8	152.7	152.6
105°	194.9	194.9	195.1	195.5	195.8	196.2	196.6
107.5°	242.5	243.0	243.2	243.0	242.8	242.6	242.3
110°	273.9	274.7	274.8	274.5	274.1	273.8	273.4



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	305.4	306.3	306.7	306.6	306.6	306.6	306.5
115°	352.5	352.6	352.6	352.5	352.2	352.0	351.9
117.5°	400.3	400.3	400.0	399.5	399.0	398.4	397.9
120°	432.3	432.1	431.8	431.5	431.0	430.7	430.3
122.5°	464.4	464.0	463.4	462.9	462.4	461.9	461.4
125°	512.4	511.7	510.9	510.2	509.5	508.7	508.0
127.5°	559.8	558.7	557.7	556.9	556.1	555.2	554.4
130°	591.7	590.9	590.0	588.6	587.3	586.1	584.8
132.5°	622.3	621.4	620.5	619.5	618.5	617.5	616.5
135°	668.5	667.7	667.2	666.8	666.5	666.1	665.8
137.5°	713.5	712.7	712.0	711.3	710.6	709.9	709.2
140°	743.6	743.5	742.7	741.4	740.2	738.9	737.6
142.5°	771.4	771.3	770.6	769.6	768.7	767.7	766.7
145°	812.2	812.0	811.5	810.8	810.1	809.3	808.6
147.5°	850.9	850.9	850.4	849.3	848.2	847.1	846.0
150°	874.7	874.7	874.2	873.1	872.0	870.9	869.8
152.5°	896.7	897.1	896.7	895.8	894.8	893.8	892.9
155°	929.0	929.7	929.4	928.1	926.8	925.6	924.3
157.5°	956.3	957.1	957.0	955.9	955.0	953.9	952.8
160°	973.3	974.2	974.3	973.5	972.8	972.1	971.3
162.5°	989.1	990.1	989.9	988.8	987.6	986.4	985.2
165°	1009.3	1010.5	1010.4	1009.1	1007.8	1006.5	1005.3
167.5°	1025.6	1026.8	1026.8	1025.6	1024.5	1023.4	1022.2
170°	1034.7	1036.0	1036.0	1034.7	1033.4	1032.1	1030.9
172.5°	1041.5	1042.7	1042.6	1041.3	1040.0	1038.7	1037.5
175°	1049.0	1050.1	1050.0	1048.7	1047.4	1046.2	1044.9
177.5°	1052.1	1053.0	1053.0	1051.9	1050.9	1049.9	1048.9
180°	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5	1051.5

(END OF REPORT)