

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: P332120-940

Luminaire Tested: **S123DIW-S560D460U940-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332120-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIW-S560D460U940-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 460 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3773.5 lumens
Efficiency: N/A
Efficacy: 124.9 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

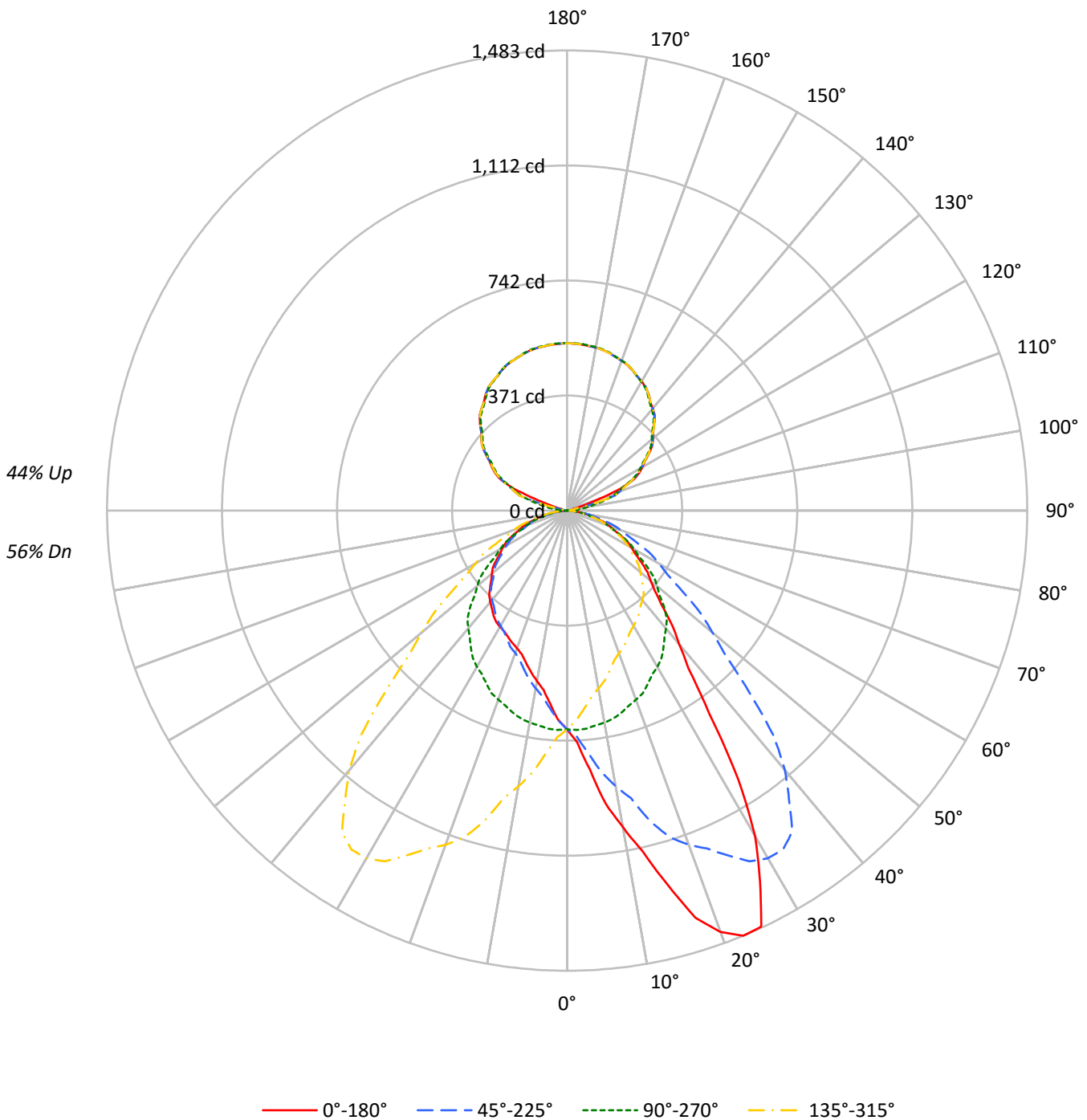
Input Watts (W): 30.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332120-940

CATALOG NUMBER: S123DIW-S560D460U940-4F0-1E-UDD-A

Luminous Intensity Polar Plot





TEST NUMBER: P332120-940

CATALOG NUMBER: S123DIW-S560D460U940-4F0-1E-UDD-A

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	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																														
0	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56																												
1	100	95	91	88	92	89	86	83	77	74	72	66	64	62	55	54	53	48																												
2	91	84	77	72	84	78	73	68	68	64	60	58	55	52	49	47	45	41																												
3	83	74	66	61	77	69	62	57	60	55	51	51	48	45	44	41	39	35																												
4	76	65	58	52	71	61	54	49	53	48	44	46	42	38	39	36	34	30																												
5	70	58	50	44	65	55	48	42	48	42	38	41	37	33	35	32	29	26																												
6	65	52	44	39	60	49	42	37	43	37	33	37	33	29	32	29	26	23																												
7	60	47	39	34	55	45	37	32	39	33	29	34	30	26	29	26	23	21																												
8	55	43	35	30	52	41	34	29	36	30	26	31	27	23	27	23	21	18																												
9	52	39	32	27	48	37	30	26	33	27	23	29	24	21	25	21	19	17																												
10	48	36	29	24	45	34	28	23	30	25	21	27	22	19	23	20	17	15																												

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



TEST NUMBER: P332120-940

CATALOG NUMBER: S123DIW-S560D460U940-4F0-1E-UDD-A

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.4	1.8
10°-20°	222.7	5.9
20°-30°	373.7	9.9
30°-40°	423.1	11.2
40°-50°	379.5	10.1
50°-60°	306.2	8.1
60°-70°	213.4	5.7
70°-80°	112.2	3.0
80°-90°	28.9	0.8
90°-100°	19.6	0.5
100°-110°	93.4	2.5
110°-120°	224.4	5.9
120°-130°	285.8	7.6
130°-140°	305.4	8.1
140°-150°	285.5	7.6
150°-160°	230.3	6.1
160°-170°	148.7	3.9
170°-180°	51.2	1.4
0°-30°	665.8	17.6
0°-40°	1088.9	28.9
0°-60°	1774.6	47.0
0°-90°	2129.0	56.4
90°-120°	337.5	8.9
90°-150°	1214.2	32.2
90°-180°	1644.0	43.6
0°-180°	3773.5	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°	12	0	12	0	12	7
95°	15	24	15	24	15	13
105°	18	119	18	119	18	40
115°	236	224	236	224	236	218
125°	322	316	322	316	322	288
135°	397	393	397	393	397	306
145°	458	454	458	454	458	286
155°	499	500	499	500	499	230
165°	526	527	526	527	526	148
175°	537	539	537	539	537	51
180°	539	539	539	539	539	



TEST NUMBER: P332120-940

CATALOG NUMBER: S123DIW-S560D460U940-4F0-1E-UDD-A

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°	10.6	10.0	10.3	10.5	10.2	10.4	10.6	10.8	11.0	11.2	11.2
90°	12.0	11.9	11.7	11.5	11.3	11.1	10.7	10.3	10.0	9.6	8.5
92.5°	13.3	13.2	13.1	13.0	12.8	12.6	11.9	11.4	10.8	10.3	9.4
95°	15.2	15.2	15.2	15.2	15.2	14.9	14.3	13.6	13.0	12.4	11.4
97.5°	16.5	16.4	16.3	16.2	16.1	15.8	15.1	14.4	13.6	12.9	19.4
100°	16.9	16.8	16.7	16.6	16.5	16.1	15.3	14.6	13.9	13.2	27.1
102.5°	17.1	16.9	16.9	16.7	16.5	17.6	19.7	21.9	24.2	26.4	41.6
105°	17.7	17.5	17.3	17.1	16.9	24.7	40.5	56.2	72.0	87.7	95.8
107.5°	55.4	67.2	79.1	91.0	102.9	114.6	126.2	137.7	149.3	160.8	159.5
110°	110.2	122.9	135.6	148.4	161.1	168.9	171.8	174.8	177.7	180.7	179.7



TEST NUMBER: P332120-940

CATALOG NUMBER: S123DIW-S560D460U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	189.0	191.7	194.4	197.1	199.7	201.1	201.0	201.0	200.9	200.9	199.9
115°	235.6	235.2	234.9	234.5	234.2	233.5	232.6	231.8	230.9	230.0	229.2
117.5°	261.7	261.6	261.5	261.4	261.4	261.0	260.3	259.6	258.9	258.2	257.8
120°	279.6	279.6	279.6	279.6	279.6	279.3	278.6	277.9	277.1	276.4	276.2
122.5°	297.3	297.2	297.1	297.0	296.9	296.7	296.2	295.7	295.2	294.7	294.4
125°	322.1	321.9	321.7	321.6	321.4	321.2	321.0	320.8	320.7	320.5	320.1
127.5°	346.0	346.2	346.3	346.5	346.7	346.6	346.3	346.1	345.8	345.5	345.1
130°	361.3	361.5	361.7	361.9	362.0	361.9	361.6	361.2	360.9	360.5	360.3
132.5°	375.5	375.7	375.9	376.2	376.5	376.4	376.0	375.7	375.3	375.0	374.7
135°	397.0	397.3	397.5	397.8	398.1	398.1	397.8	397.5	397.3	397.0	396.6
137.5°	417.3	417.5	417.7	417.9	418.0	417.9	417.4	417.1	416.6	416.2	416.0
140°	429.4	429.6	429.8	430.0	430.2	430.1	429.7	429.4	429.0	428.6	428.4
142.5°	440.7	441.0	441.2	441.4	441.7	441.7	441.4	441.1	440.8	440.5	440.2
145°	457.9	457.9	457.9	457.9	457.9	457.8	457.6	457.4	457.3	457.1	456.9
147.5°	470.7	471.2	471.5	472.0	472.3	472.5	472.3	472.2	472.0	471.8	471.6
150°	480.4	480.6	480.9	481.2	481.4	481.4	481.3	481.1	480.9	480.7	480.5
152.5°	488.0	488.5	488.8	489.3	489.6	489.7	489.4	489.1	488.7	488.5	488.3
155°	498.8	499.3	499.8	500.3	500.9	501.0	500.5	500.1	499.6	499.2	499.1
157.5°	507.8	508.5	509.3	509.9	510.6	510.7	510.1	509.6	509.1	508.5	508.6
160°	513.6	514.2	514.9	515.5	516.1	516.1	515.6	515.1	514.5	514.0	514.1
162.5°	519.1	519.6	520.1	520.7	521.3	521.2	520.7	520.0	519.4	518.8	518.9
165°	525.7	526.3	526.9	527.4	528.1	528.1	527.4	526.6	525.9	525.2	525.3
167.5°	530.4	531.1	531.8	532.4	533.2	533.2	532.4	531.8	531.1	530.4	530.4
170°	533.2	534.0	534.7	535.4	536.1	536.1	535.4	534.7	534.0	533.2	533.2
172.5°	534.8	535.7	536.4	537.2	538.0	538.0	537.3	536.5	535.8	535.1	535.1
175°	537.3	538.0	538.7	539.4	540.1	540.1	539.5	538.9	538.2	537.6	537.5
177.5°	538.0	538.7	539.4	540.1	540.8	540.9	540.3	539.8	539.1	538.6	538.5
180°	539.2	539.2	539.2	539.2	539.2	539.2	539.2	539.2	539.2	539.2	539.2



TEST NUMBER: P332120-940

CATALOG NUMBER: S123DIW-S560D460U940-4F0-1E-UDD-A

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°	11.6	11.6	10.5	9.3	8.6	7.6	7.4	6.6	6.2	6.4	6.3
90°	7.3	6.2	5.0	3.9	3.0	2.1	1.2	0.4	1.2	2.1	3.0
92.5°	8.5	7.7	6.8	6.4	6.7	7.0	7.2	7.5	7.2	7.0	6.7
95°	10.4	9.5	8.5	9.8	13.5	17.1	20.8	24.4	20.8	17.1	13.5
97.5°	25.7	32.1	38.5	42.5	44.2	45.8	47.4	49.1	47.4	45.8	44.2
100°	41.0	54.9	68.8	74.8	73.0	71.2	69.5	67.7	69.5	71.2	73.0
102.5°	56.7	71.9	87.0	94.0	92.7	91.4	90.2	88.8	90.2	91.4	92.7
105°	103.8	111.7	119.8	123.3	122.3	121.4	120.4	119.4	120.4	121.4	122.3
107.5°	158.3	157.0	155.8	154.7	153.9	153.2	152.4	151.6	152.4	153.2	153.9
110°	178.7	177.7	176.7	175.9	175.2	174.5	173.8	173.1	173.8	174.5	175.2



TEST NUMBER: P332120-940

CATALOG NUMBER: S123DIW-S560D460U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	198.9	198.0	197.0	196.2	195.5	194.8	194.2	193.6	194.2	194.8	195.5
115°	228.4	227.6	226.8	226.0	225.5	225.0	224.4	223.9	224.4	225.0	225.5
117.5°	257.3	256.9	256.5	256.0	255.3	254.7	254.0	253.3	254.0	254.7	255.3
120°	275.9	275.6	275.4	274.8	274.0	273.2	272.4	271.6	272.4	273.2	274.0
122.5°	294.0	293.7	293.4	292.8	292.2	291.5	290.9	290.3	290.9	291.5	292.2
125°	319.8	319.4	319.1	318.5	317.8	317.1	316.4	315.7	316.4	317.1	317.8
127.5°	344.6	344.2	343.8	343.2	342.5	341.8	341.1	340.4	341.1	341.8	342.5
130°	359.9	359.5	359.2	358.6	357.9	357.2	356.5	355.8	356.5	357.2	357.9
132.5°	374.4	374.2	373.8	373.4	372.6	371.9	371.2	370.5	371.2	371.9	372.6
135°	396.3	395.9	395.6	395.1	394.6	394.0	393.5	393.0	393.5	394.0	394.6
137.5°	415.8	415.6	415.4	414.9	414.3	413.6	413.0	412.2	413.0	413.6	414.3
140°	428.1	427.8	427.6	427.2	426.7	426.1	425.6	425.1	425.6	426.1	426.7
142.5°	440.0	439.7	439.4	439.1	438.5	438.0	437.5	436.9	437.5	438.0	438.5
145°	456.7	456.6	456.4	456.0	455.4	454.8	454.1	453.5	454.1	454.8	455.4
147.5°	471.4	471.3	471.1	470.7	470.4	469.9	469.6	469.1	469.6	469.9	470.4
150°	480.4	480.2	480.0	479.8	479.6	479.3	479.0	478.8	479.0	479.3	479.6
152.5°	488.2	488.1	488.0	487.9	487.8	487.7	487.5	487.4	487.5	487.7	487.8
155°	499.0	498.9	498.8	498.9	499.1	499.2	499.4	499.5	499.4	499.2	499.1
157.5°	508.7	508.8	508.9	509.0	509.0	509.0	509.0	509.1	509.0	509.0	509.0
160°	514.2	514.2	514.3	514.4	514.5	514.6	514.7	514.8	514.7	514.6	514.5
162.5°	519.0	519.1	519.2	519.3	519.6	519.8	520.0	520.2	520.0	519.8	519.6
165°	525.4	525.5	525.6	525.8	526.0	526.3	526.6	526.8	526.6	526.3	526.0
167.5°	530.4	530.4	530.4	530.6	530.9	531.3	531.6	532.0	531.6	531.3	530.9
170°	533.2	533.2	533.2	533.4	533.8	534.1	534.5	534.8	534.5	534.1	533.8
172.5°	535.0	534.9	534.8	535.0	535.5	535.9	536.4	536.7	536.4	535.9	535.5
175°	537.4	537.3	537.3	537.4	537.9	538.3	538.8	539.2	538.8	538.3	537.9
177.5°	538.4	538.4	538.3	538.4	538.8	539.1	539.5	539.8	539.5	539.1	538.8
180°	539.2	539.2	539.2	539.2	539.2	539.2	539.2	539.2	539.2	539.2	539.2



TEST NUMBER: P332120-940

CATALOG NUMBER: S123DIW-S560D460U940-4F0-1E-UDD-A

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	6.8	6.7	7.2	7.1	7.7	7.8	7.2	7.3	8.2	7.2
90°	3.9	5.0	6.2	7.3	8.5	9.6	10.0	10.3	10.7	11.1	11.3
92.5°	6.4	6.8	7.7	8.5	9.4	10.3	10.8	11.4	11.9	12.6	12.8
95°	9.8	8.5	9.5	10.4	11.4	12.4	13.0	13.6	14.3	14.9	15.2
97.5°	42.5	38.5	32.1	25.7	19.4	12.9	13.6	14.4	15.1	15.8	16.1
100°	74.8	68.8	54.9	41.0	27.1	13.2	13.9	14.6	15.3	16.1	16.5
102.5°	94.0	87.0	71.9	56.7	41.6	26.4	24.2	21.9	19.7	17.6	16.5
105°	123.3	119.8	111.7	103.8	95.8	87.7	72.0	56.2	40.5	24.7	16.9
107.5°	154.7	155.8	157.0	158.3	159.5	160.8	149.3	137.7	126.2	114.6	102.9
110°	175.9	176.7	177.7	178.7	179.7	180.7	177.7	174.8	171.8	168.9	161.1



TEST NUMBER: P332120-940

CATALOG NUMBER: S123DIW-S560D460U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	196.2	197.0	198.0	198.9	199.9	200.9	200.9	201.0	201.0	201.1	199.7
115°	226.0	226.8	227.6	228.4	229.2	230.0	230.9	231.8	232.6	233.5	234.2
117.5°	256.0	256.5	256.9	257.3	257.8	258.2	258.9	259.6	260.3	261.0	261.4
120°	274.8	275.4	275.6	275.9	276.2	276.4	277.1	277.9	278.6	279.3	279.6
122.5°	292.8	293.4	293.7	294.0	294.4	294.7	295.2	295.7	296.2	296.7	296.9
125°	318.5	319.1	319.4	319.8	320.1	320.5	320.7	320.8	321.0	321.2	321.4
127.5°	343.2	343.8	344.2	344.6	345.1	345.5	345.8	346.1	346.3	346.6	346.7
130°	358.6	359.2	359.5	359.9	360.3	360.5	360.9	361.2	361.6	361.9	362.0
132.5°	373.4	373.8	374.2	374.4	374.7	375.0	375.3	375.7	376.0	376.4	376.5
135°	395.1	395.6	395.9	396.3	396.6	397.0	397.3	397.5	397.8	398.1	398.1
137.5°	414.9	415.4	415.6	415.8	416.0	416.2	416.6	417.1	417.4	417.9	418.0
140°	427.2	427.6	427.8	428.1	428.4	428.6	429.0	429.4	429.7	430.1	430.2
142.5°	439.1	439.4	439.7	440.0	440.2	440.5	440.8	441.1	441.4	441.7	441.7
145°	456.0	456.4	456.6	456.7	456.9	457.1	457.3	457.4	457.6	457.8	457.9
147.5°	470.7	471.1	471.3	471.4	471.6	471.8	472.0	472.2	472.3	472.5	472.3
150°	479.8	480.0	480.2	480.4	480.5	480.7	480.9	481.1	481.3	481.4	481.4
152.5°	487.9	488.0	488.1	488.2	488.3	488.5	488.7	489.1	489.4	489.7	489.6
155°	498.9	498.8	498.9	499.0	499.1	499.2	499.6	500.1	500.5	501.0	500.9
157.5°	509.0	508.9	508.8	508.7	508.6	508.5	509.1	509.6	510.1	510.7	510.6
160°	514.4	514.3	514.2	514.2	514.1	514.0	514.5	515.1	515.6	516.1	516.1
162.5°	519.3	519.2	519.1	519.0	518.9	518.8	519.4	520.0	520.7	521.2	521.3
165°	525.8	525.6	525.5	525.4	525.3	525.2	525.9	526.6	527.4	528.1	528.1
167.5°	530.6	530.4	530.4	530.4	530.4	530.4	531.1	531.8	532.4	533.2	533.2
170°	533.4	533.2	533.2	533.2	533.2	533.2	534.0	534.7	535.4	536.1	536.1
172.5°	535.0	534.8	534.9	535.0	535.1	535.1	535.8	536.5	537.3	538.0	538.0
175°	537.4	537.3	537.3	537.4	537.5	537.6	538.2	538.9	539.5	540.1	540.1
177.5°	538.4	538.3	538.4	538.4	538.5	538.6	539.1	539.8	540.3	540.9	540.8
180°	539.2	539.2	539.2	539.2	539.2	539.2	539.2	539.2	539.2	539.2	539.2



TEST NUMBER: P332120-940

CATALOG NUMBER: S123DIW-S560D460U940-4F0-1E-UDD-A

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°	7.2	7.2	7.0	6.8	7.0	7.2	7.2	7.2	8.2	7.3	7.2
90°	11.5	11.7	11.9	12.0	11.9	11.7	11.5	11.3	11.1	10.7	10.3
92.5°	13.0	13.1	13.2	13.3	13.2	13.1	13.0	12.8	12.6	11.9	11.4
95°	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	14.9	14.3	13.6
97.5°	16.2	16.3	16.4	16.5	16.4	16.3	16.2	16.1	15.8	15.1	14.4
100°	16.6	16.7	16.8	16.9	16.8	16.7	16.6	16.5	16.1	15.3	14.6
102.5°	16.7	16.9	16.9	17.1	16.9	16.9	16.7	16.5	17.6	19.7	21.9
105°	17.1	17.3	17.5	17.7	17.5	17.3	17.1	16.9	24.7	40.5	56.2
107.5°	91.0	79.1	67.2	55.4	67.2	79.1	91.0	102.9	114.6	126.2	137.7
110°	148.4	135.6	122.9	110.2	122.9	135.6	148.4	161.1	168.9	171.8	174.8



TEST NUMBER: P332120-940

CATALOG NUMBER: S123DIW-S560D460U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	197.1	194.4	191.7	189.0	191.7	194.4	197.1	199.7	201.1	201.0	201.0
115°	234.5	234.9	235.2	235.6	235.2	234.9	234.5	234.2	233.5	232.6	231.8
117.5°	261.4	261.5	261.6	261.7	261.6	261.5	261.4	261.4	261.0	260.3	259.6
120°	279.6	279.6	279.6	279.6	279.6	279.6	279.6	279.6	279.3	278.6	277.9
122.5°	297.0	297.1	297.2	297.3	297.2	297.1	297.0	296.9	296.7	296.2	295.7
125°	321.6	321.7	321.9	322.1	321.9	321.7	321.6	321.4	321.2	321.0	320.8
127.5°	346.5	346.3	346.2	346.0	346.2	346.3	346.5	346.7	346.6	346.3	346.1
130°	361.9	361.7	361.5	361.3	361.5	361.7	361.9	362.0	361.9	361.6	361.2
132.5°	376.2	375.9	375.7	375.5	375.7	375.9	376.2	376.5	376.4	376.0	375.7
135°	397.8	397.5	397.3	397.0	397.3	397.5	397.8	398.1	398.1	397.8	397.5
137.5°	417.9	417.7	417.5	417.3	417.5	417.7	417.9	418.0	417.9	417.4	417.1
140°	430.0	429.8	429.6	429.4	429.6	429.8	430.0	430.2	430.1	429.7	429.4
142.5°	441.4	441.2	441.0	440.7	441.0	441.2	441.4	441.7	441.7	441.4	441.1
145°	457.9	457.9	457.9	457.9	457.9	457.9	457.9	457.9	457.8	457.6	457.4
147.5°	472.0	471.5	471.2	470.7	471.2	471.5	472.0	472.3	472.5	472.3	472.2
150°	481.2	480.9	480.6	480.4	480.6	480.9	481.2	481.4	481.4	481.3	481.1
152.5°	489.3	488.8	488.5	488.0	488.5	488.8	489.3	489.6	489.7	489.4	489.1
155°	500.3	499.8	499.3	498.8	499.3	499.8	500.3	500.9	501.0	500.5	500.1
157.5°	509.9	509.3	508.5	507.8	508.5	509.3	509.9	510.6	510.7	510.1	509.6
160°	515.5	514.9	514.2	513.6	514.2	514.9	515.5	516.1	516.1	515.6	515.1
162.5°	520.7	520.1	519.6	519.1	519.6	520.1	520.7	521.3	521.2	520.7	520.0
165°	527.4	526.9	526.3	525.7	526.3	526.9	527.4	528.1	528.1	527.4	526.6
167.5°	532.4	531.8	531.1	530.4	531.1	531.8	532.4	533.2	533.2	532.4	531.8
170°	535.4	534.7	534.0	533.2	534.0	534.7	535.4	536.1	536.1	535.4	534.7
172.5°	537.2	536.4	535.7	534.8	535.7	536.4	537.2	538.0	538.0	537.3	536.5
175°	539.4	538.7	538.0	537.3	538.0	538.7	539.4	540.1	540.1	539.5	538.9
177.5°	540.1	539.4	538.7	538.0	538.7	539.4	540.1	540.8	540.9	540.3	539.8
180°	539.2	539.2	539.2	539.2	539.2	539.2	539.2	539.2	539.2	539.2	539.2



TEST NUMBER: P332120-940

CATALOG NUMBER: S123DIW-S560D460U940-4F0-1E-UDD-A

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°	7.8	7.7	7.1	7.2	6.7	6.8	6.2	6.3	6.4	6.2	6.6
90°	10.0	9.6	8.5	7.3	6.2	5.0	3.9	3.0	2.1	1.2	0.4
92.5°	10.8	10.3	9.4	8.5	7.7	6.8	6.4	6.7	7.0	7.2	7.5
95°	13.0	12.4	11.4	10.4	9.5	8.5	9.8	13.5	17.1	20.8	24.4
97.5°	13.6	12.9	19.4	25.7	32.1	38.5	42.5	44.2	45.8	47.4	49.1
100°	13.9	13.2	27.1	41.0	54.9	68.8	74.8	73.0	71.2	69.5	67.7
102.5°	24.2	26.4	41.6	56.7	71.9	87.0	94.0	92.7	91.4	90.2	88.8
105°	72.0	87.7	95.8	103.8	111.7	119.8	123.3	122.3	121.4	120.4	119.4
107.5°	149.3	160.8	159.5	158.3	157.0	155.8	154.7	153.9	153.2	152.4	151.6
110°	177.7	180.7	179.7	178.7	177.7	176.7	175.9	175.2	174.5	173.8	173.1



TEST NUMBER: P332120-940

CATALOG NUMBER: S123DIW-S560D460U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	200.9	200.9	199.9	198.9	198.0	197.0	196.2	195.5	194.8	194.2	193.6
115°	230.9	230.0	229.2	228.4	227.6	226.8	226.0	225.5	225.0	224.4	223.9
117.5°	258.9	258.2	257.8	257.3	256.9	256.5	256.0	255.3	254.7	254.0	253.3
120°	277.1	276.4	276.2	275.9	275.6	275.4	274.8	274.0	273.2	272.4	271.6
122.5°	295.2	294.7	294.4	294.0	293.7	293.4	292.8	292.2	291.5	290.9	290.3
125°	320.7	320.5	320.1	319.8	319.4	319.1	318.5	317.8	317.1	316.4	315.7
127.5°	345.8	345.5	345.1	344.6	344.2	343.8	343.2	342.5	341.8	341.1	340.4
130°	360.9	360.5	360.3	359.9	359.5	359.2	358.6	357.9	357.2	356.5	355.8
132.5°	375.3	375.0	374.7	374.4	374.2	373.8	373.4	372.6	371.9	371.2	370.5
135°	397.3	397.0	396.6	396.3	395.9	395.6	395.1	394.6	394.0	393.5	393.0
137.5°	416.6	416.2	416.0	415.8	415.6	415.4	414.9	414.3	413.6	413.0	412.2
140°	429.0	428.6	428.4	428.1	427.8	427.6	427.2	426.7	426.1	425.6	425.1
142.5°	440.8	440.5	440.2	440.0	439.7	439.4	439.1	438.5	438.0	437.5	436.9
145°	457.3	457.1	456.9	456.7	456.6	456.4	456.0	455.4	454.8	454.1	453.5
147.5°	472.0	471.8	471.6	471.4	471.3	471.1	470.7	470.4	469.9	469.6	469.1
150°	480.9	480.7	480.5	480.4	480.2	480.0	479.8	479.6	479.3	479.0	478.8
152.5°	488.7	488.5	488.3	488.2	488.1	488.0	487.9	487.8	487.7	487.5	487.4
155°	499.6	499.2	499.1	499.0	498.9	498.8	498.9	499.1	499.2	499.4	499.5
157.5°	509.1	508.5	508.6	508.7	508.8	508.9	509.0	509.0	509.0	509.0	509.1
160°	514.5	514.0	514.1	514.2	514.2	514.3	514.4	514.5	514.6	514.7	514.8
162.5°	519.4	518.8	518.9	519.0	519.1	519.2	519.3	519.6	519.8	520.0	520.2
165°	525.9	525.2	525.3	525.4	525.5	525.6	525.8	526.0	526.3	526.6	526.8
167.5°	531.1	530.4	530.4	530.4	530.4	530.4	530.6	530.9	531.3	531.6	532.0
170°	534.0	533.2	533.2	533.2	533.2	533.2	533.4	533.8	534.1	534.5	534.8
172.5°	535.8	535.1	535.1	535.0	534.9	534.8	535.0	535.5	535.9	536.4	536.7
175°	538.2	537.6	537.5	537.4	537.3	537.3	537.4	537.9	538.3	538.8	539.2
177.5°	539.1	538.6	538.5	538.4	538.4	538.3	538.4	538.8	539.1	539.5	539.8
180°	539.2	539.2	539.2	539.2	539.2	539.2	539.2	539.2	539.2	539.2	539.2



TEST NUMBER: P332120-940

CATALOG NUMBER: S123DIW-S560D460U940-4F0-1E-UDD-A

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°	7.4	7.6	8.6	9.3	10.5	11.6	11.6	11.2	11.2	11.0	10.8
90°	1.2	2.1	3.0	3.9	5.0	6.2	7.3	8.5	9.6	10.0	10.3
92.5°	7.2	7.0	6.7	6.4	6.8	7.7	8.5	9.4	10.3	10.8	11.4
95°	20.8	17.1	13.5	9.8	8.5	9.5	10.4	11.4	12.4	13.0	13.6
97.5°	47.4	45.8	44.2	42.5	38.5	32.1	25.7	19.4	12.9	13.6	14.4
100°	69.5	71.2	73.0	74.8	68.8	54.9	41.0	27.1	13.2	13.9	14.6
102.5°	90.2	91.4	92.7	94.0	87.0	71.9	56.7	41.6	26.4	24.2	21.9
105°	120.4	121.4	122.3	123.3	119.8	111.7	103.8	95.8	87.7	72.0	56.2
107.5°	152.4	153.2	153.9	154.7	155.8	157.0	158.3	159.5	160.8	149.3	137.7
110°	173.8	174.5	175.2	175.9	176.7	177.7	178.7	179.7	180.7	177.7	174.8



TEST NUMBER: P332120-940

CATALOG NUMBER: S123DIW-S560D460U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	194.2	194.8	195.5	196.2	197.0	198.0	198.9	199.9	200.9	200.9	201.0
115°	224.4	225.0	225.5	226.0	226.8	227.6	228.4	229.2	230.0	230.9	231.8
117.5°	254.0	254.7	255.3	256.0	256.5	256.9	257.3	257.8	258.2	258.9	259.6
120°	272.4	273.2	274.0	274.8	275.4	275.6	275.9	276.2	276.4	277.1	277.9
122.5°	290.9	291.5	292.2	292.8	293.4	293.7	294.0	294.4	294.7	295.2	295.7
125°	316.4	317.1	317.8	318.5	319.1	319.4	319.8	320.1	320.5	320.7	320.8
127.5°	341.1	341.8	342.5	343.2	343.8	344.2	344.6	345.1	345.5	345.8	346.1
130°	356.5	357.2	357.9	358.6	359.2	359.5	359.9	360.3	360.5	360.9	361.2
132.5°	371.2	371.9	372.6	373.4	373.8	374.2	374.4	374.7	375.0	375.3	375.7
135°	393.5	394.0	394.6	395.1	395.6	395.9	396.3	396.6	397.0	397.3	397.5
137.5°	413.0	413.6	414.3	414.9	415.4	415.6	415.8	416.0	416.2	416.6	417.1
140°	425.6	426.1	426.7	427.2	427.6	427.8	428.1	428.4	428.6	429.0	429.4
142.5°	437.5	438.0	438.5	439.1	439.4	439.7	440.0	440.2	440.5	440.8	441.1
145°	454.1	454.8	455.4	456.0	456.4	456.6	456.7	456.9	457.1	457.3	457.4
147.5°	469.6	469.9	470.4	470.7	471.1	471.3	471.4	471.6	471.8	472.0	472.2
150°	479.0	479.3	479.6	479.8	480.0	480.2	480.4	480.5	480.7	480.9	481.1
152.5°	487.5	487.7	487.8	487.9	488.0	488.1	488.2	488.3	488.5	488.7	489.1
155°	499.4	499.2	499.1	498.9	498.8	498.9	499.0	499.1	499.2	499.6	500.1
157.5°	509.0	509.0	509.0	509.0	508.9	508.8	508.7	508.6	508.5	509.1	509.6
160°	514.7	514.6	514.5	514.4	514.3	514.2	514.2	514.1	514.0	514.5	515.1
162.5°	520.0	519.8	519.6	519.3	519.2	519.1	519.0	518.9	518.8	519.4	520.0
165°	526.6	526.3	526.0	525.8	525.6	525.5	525.4	525.3	525.2	525.9	526.6
167.5°	531.6	531.3	530.9	530.6	530.4	530.4	530.4	530.4	530.4	531.1	531.8
170°	534.5	534.1	533.8	533.4	533.2	533.2	533.2	533.2	533.2	534.0	534.7
172.5°	536.4	535.9	535.5	535.0	534.8	534.9	535.0	535.1	535.1	535.8	536.5
175°	538.8	538.3	537.9	537.4	537.3	537.3	537.4	537.5	537.6	538.2	538.9
177.5°	539.5	539.1	538.8	538.4	538.3	538.4	538.4	538.5	538.6	539.1	539.8
180°	539.2	539.2	539.2	539.2	539.2	539.2	539.2	539.2	539.2	539.2	539.2



TEST NUMBER: P332120-940

CATALOG NUMBER: S123DIW-S560D460U940-4F0-1E-UDD-A

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°	10.6	10.4	10.2	10.5	10.3	10.0	10.6
90°	10.7	11.1	11.3	11.5	11.7	11.9	12.0
92.5°	11.9	12.6	12.8	13.0	13.1	13.2	13.3
95°	14.3	14.9	15.2	15.2	15.2	15.2	15.2
97.5°	15.1	15.8	16.1	16.2	16.3	16.4	16.5
100°	15.3	16.1	16.5	16.6	16.7	16.8	16.9
102.5°	19.7	17.6	16.5	16.7	16.9	16.9	17.1
105°	40.5	24.7	16.9	17.1	17.3	17.5	17.7
107.5°	126.2	114.6	102.9	91.0	79.1	67.2	55.4
110°	171.8	168.9	161.1	148.4	135.6	122.9	110.2



TEST NUMBER: P332120-940

CATALOG NUMBER: S123DIW-S560D460U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	201.0	201.1	199.7	197.1	194.4	191.7	189.0
115°	232.6	233.5	234.2	234.5	234.9	235.2	235.6
117.5°	260.3	261.0	261.4	261.4	261.5	261.6	261.7
120°	278.6	279.3	279.6	279.6	279.6	279.6	279.6
122.5°	296.2	296.7	296.9	297.0	297.1	297.2	297.3
125°	321.0	321.2	321.4	321.6	321.7	321.9	322.1
127.5°	346.3	346.6	346.7	346.5	346.3	346.2	346.0
130°	361.6	361.9	362.0	361.9	361.7	361.5	361.3
132.5°	376.0	376.4	376.5	376.2	375.9	375.7	375.5
135°	397.8	398.1	398.1	397.8	397.5	397.3	397.0
137.5°	417.4	417.9	418.0	417.9	417.7	417.5	417.3
140°	429.7	430.1	430.2	430.0	429.8	429.6	429.4
142.5°	441.4	441.7	441.7	441.4	441.2	441.0	440.7
145°	457.6	457.8	457.9	457.9	457.9	457.9	457.9
147.5°	472.3	472.5	472.3	472.0	471.5	471.2	470.7
150°	481.3	481.4	481.4	481.2	480.9	480.6	480.4
152.5°	489.4	489.7	489.6	489.3	488.8	488.5	488.0
155°	500.5	501.0	500.9	500.3	499.8	499.3	498.8
157.5°	510.1	510.7	510.6	509.9	509.3	508.5	507.8
160°	515.6	516.1	516.1	515.5	514.9	514.2	513.6
162.5°	520.7	521.2	521.3	520.7	520.1	519.6	519.1
165°	527.4	528.1	528.1	527.4	526.9	526.3	525.7
167.5°	532.4	533.2	533.2	532.4	531.8	531.1	530.4
170°	535.4	536.1	536.1	535.4	534.7	534.0	533.2
172.5°	537.3	538.0	538.0	537.2	536.4	535.7	534.8
175°	539.5	540.1	540.1	539.4	538.7	538.0	537.3
177.5°	540.3	540.9	540.8	540.1	539.4	538.7	538.0
180°	539.2	539.2	539.2	539.2	539.2	539.2	539.2

(END OF REPORT)