

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: P332121-940

Luminaire Tested: **S123DIW-S560D460U940-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332121-940
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-S560D460U940-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 460 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

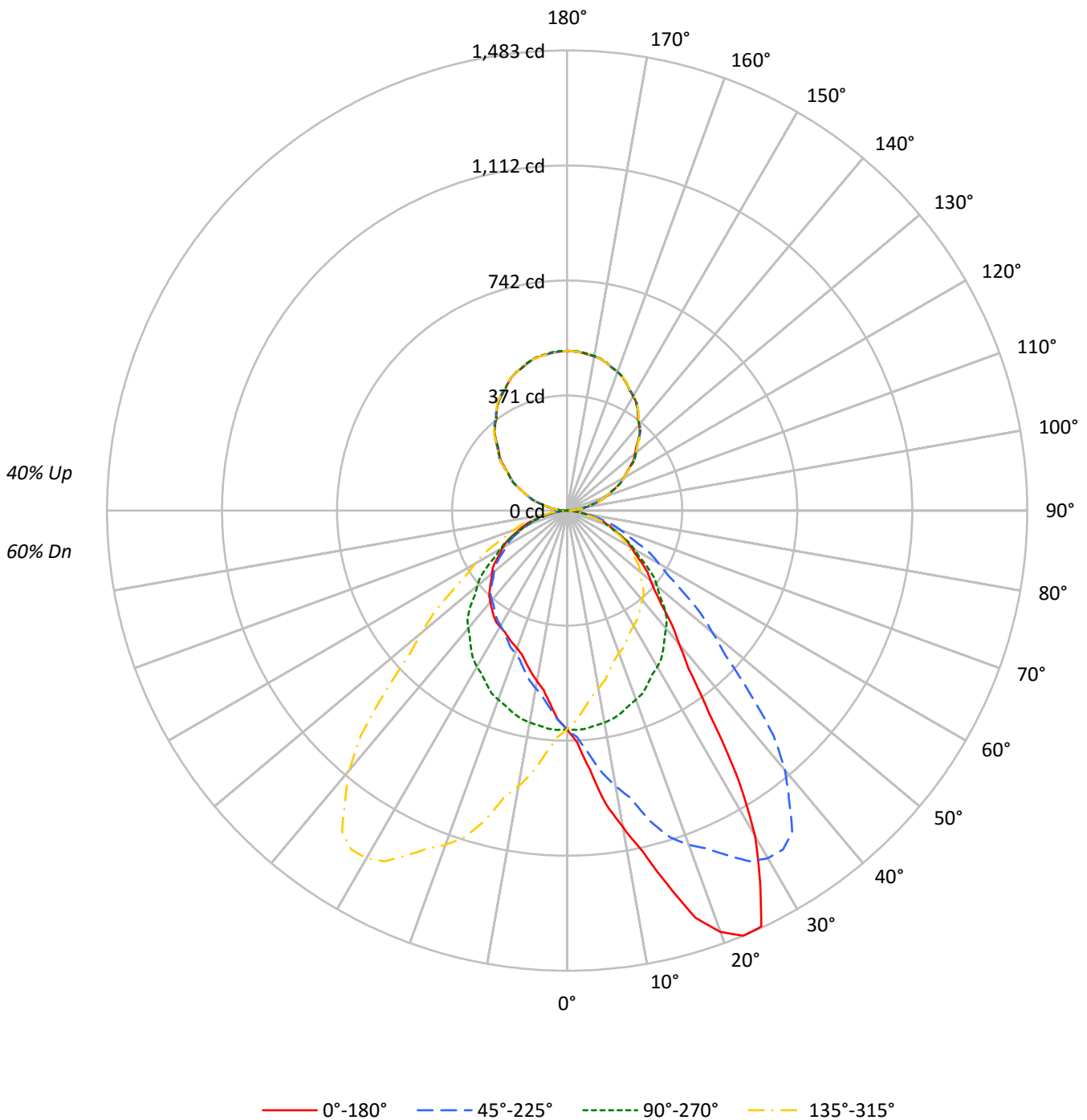
Lumens per Lamp: N/A
Luminaire Lumens: 3554.3 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: General Diffuse

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



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	0
RCR																					
0	110	110	110	110	102	102	102	102	89	89	89	77	77	77	65	65	65	65	65	65	60
1	100	96	92	89	94	90	87	84	78	76	74	68	66	64	58	57	56	56	56	56	51
2	92	84	78	73	85	79	74	69	69	65	62	60	57	54	52	49	47	47	47	47	43
3	84	74	67	61	78	70	63	58	61	56	52	53	49	46	46	43	41	41	41	41	37
4	77	66	58	52	72	62	55	50	55	49	45	48	43	40	41	38	35	35	35	35	32
5	71	59	51	45	66	56	48	43	49	43	39	43	38	35	37	34	31	31	31	31	28
6	65	53	45	39	61	50	43	37	44	38	34	39	34	31	34	30	27	27	27	27	25
7	60	48	40	34	56	45	38	33	40	34	30	35	31	27	31	27	24	24	24	24	22
8	56	44	36	30	52	41	34	29	37	31	27	32	28	24	28	25	22	22	22	22	20
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	26	22	20	20	20	20	18
10	49	37	29	24	46	35	28	24	31	25	22	28	23	20	24	21	18	18	18	18	16

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	2.0
10°-20°	222.7	6.3
20°-30°	373.7	10.5
30°-40°	423.1	11.9
40°-50°	379.5	10.7
50°-60°	306.2	8.6
60°-70°	213.4	6.0
70°-80°	112.2	3.2
80°-90°	29.0	0.8
90°-100°	33.5	0.9
100°-110°	100.3	2.8
110°-120°	170.6	4.8
120°-130°	224.4	6.3
130°-140°	252.2	7.1
140°-150°	247.9	7.0
150°-160°	208.7	5.9
160°-170°	138.9	3.9
170°-180°	48.7	1.4
0°-30°	665.8	18.7
0°-40°	1088.9	30.6
0°-60°	1774.6	49.9
0°-90°	2129.1	59.9
90°-120°	304.4	8.6
90°-150°	1029.0	28.9
90°-180°	1425.0	40.1
0°-180°	3554.3	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°	32	24	32	24	32	32
105°	96	91	96	91	96	102
115°	172	172	172	172	172	170
125°	248	251	248	251	248	222
135°	326	326	326	326	326	250
145°	396	396	396	396	396	247
155°	452	453	452	453	452	208
165°	492	493	492	493	492	139
175°	511	513	511	513	511	49
180°	514	514	514	514	514	



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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°	10.6	10.1	10.3	10.5	10.2	10.4	10.6	10.8	11.1	11.2	11.2
90°	12.1	11.9	11.8	11.6	11.4	11.1	10.8	10.4	10.1	9.7	8.6
92.5°	16.3	16.4	16.5	16.7	16.8	16.7	16.4	16.1	15.8	15.5	14.9
95°	31.5	31.5	31.5	31.5	31.5	31.3	30.9	30.6	30.2	29.9	29.2
97.5°	48.5	48.5	48.6	48.6	48.6	48.4	48.1	47.6	47.2	46.8	46.3
100°	61.4	61.3	61.1	60.9	60.7	60.5	60.2	59.9	59.7	59.4	58.9
102.5°	74.6	74.7	74.7	74.8	74.8	74.7	74.5	74.2	73.9	73.7	73.0
105°	96.2	96.0	95.9	95.7	95.4	95.3	95.3	95.3	95.3	95.3	94.5
107.5°	118.6	118.7	118.8	118.9	119.0	118.9	118.6	118.3	118.1	117.8	117.4
110°	133.8	133.9	134.1	134.3	134.5	134.4	134.0	133.7	133.3	133.0	132.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	149.9	150.0	150.0	150.0	150.1	149.9	149.5	149.0	148.6	148.1	148.1
115°	172.2	172.3	172.4	172.5	172.5	172.5	172.5	172.4	172.3	172.2	172.4
117.5°	194.7	194.9	195.2	195.5	195.7	195.8	195.8	195.9	195.9	195.9	196.2
120°	210.5	210.7	210.9	211.1	211.2	211.4	211.5	211.6	211.7	211.8	212.2
122.5°	225.7	226.0	226.2	226.5	226.8	226.9	227.2	227.5	227.7	227.9	228.2
125°	248.5	248.9	249.2	249.6	249.9	250.3	250.7	251.0	251.4	251.7	251.9
127.5°	271.3	271.6	272.1	272.5	272.9	273.3	273.8	274.4	274.8	275.4	275.5
130°	286.1	286.8	287.4	288.0	288.6	289.1	289.4	289.8	290.2	290.5	290.8
132.5°	301.6	302.1	302.6	303.1	303.5	304.0	304.4	304.9	305.3	305.8	305.9
135°	325.7	325.9	326.1	326.3	326.5	326.7	327.1	327.4	327.8	328.1	328.2
137.5°	347.0	347.3	347.7	347.9	348.3	348.7	349.1	349.5	349.8	350.2	350.0
140°	360.9	361.5	362.1	362.7	363.4	363.7	363.8	363.9	364.0	364.1	364.0
142.5°	375.1	375.6	376.0	376.6	377.0	377.3	377.4	377.5	377.6	377.6	377.6
145°	395.7	396.0	396.4	396.7	397.1	397.3	397.3	397.4	397.5	397.6	397.3
147.5°	413.8	414.4	414.9	415.5	416.1	416.3	416.3	416.3	416.3	416.3	416.1
150°	425.5	426.1	426.6	427.1	427.7	427.9	427.9	427.9	427.9	427.9	427.8
152.5°	436.8	437.3	437.7	438.3	438.7	438.9	438.7	438.5	438.5	438.3	438.2
155°	452.2	452.8	453.4	454.1	454.7	454.9	454.5	454.1	453.8	453.4	453.3
157.5°	466.2	466.6	467.2	467.7	468.1	468.2	467.9	467.5	467.1	466.7	466.6
160°	475.2	475.5	475.9	476.3	476.6	476.6	476.2	475.7	475.3	474.8	474.8
162.5°	482.0	482.6	483.1	483.8	484.3	484.4	483.9	483.5	483.0	482.6	482.5
165°	491.8	492.4	493.0	493.7	494.3	494.4	493.8	493.3	492.8	492.2	492.2
167.5°	500.1	500.7	501.2	501.8	502.3	502.3	501.8	501.2	500.7	500.1	500.1
170°	504.4	505.0	505.6	506.2	506.8	506.8	506.2	505.6	505.0	504.4	504.4
172.5°	507.6	508.2	508.8	509.4	510.1	510.1	509.5	509.0	508.5	507.8	507.8
175°	511.2	511.8	512.5	513.1	513.7	513.7	513.2	512.6	512.1	511.6	511.6
177.5°	513.1	513.6	514.2	514.6	515.1	515.1	514.8	514.3	513.9	513.4	513.4
180°	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4



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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°	11.6	11.6	10.6	9.3	8.6	7.6	7.4	6.6	6.2	6.4	6.3
90°	7.4	6.2	5.0	4.0	3.1	2.2	1.3	0.4	1.3	2.2	3.1
92.5°	14.2	13.6	12.8	12.2	11.6	11.0	10.4	9.8	10.4	11.0	11.6
95°	28.4	27.7	27.0	26.4	25.8	25.1	24.4	23.8	24.4	25.1	25.8
97.5°	45.7	45.2	44.7	44.2	43.8	43.2	42.8	42.4	42.8	43.2	43.8
100°	58.5	58.1	57.6	57.1	56.5	56.0	55.5	54.9	55.5	56.0	56.5
102.5°	72.4	71.9	71.2	70.8	70.4	70.2	69.8	69.5	69.8	70.2	70.4
105°	93.7	92.9	92.1	91.7	91.5	91.3	91.1	91.0	91.1	91.3	91.5
107.5°	117.1	116.8	116.5	116.3	116.1	116.0	115.9	115.8	115.9	116.0	116.1
110°	132.6	132.4	132.2	132.1	131.9	131.7	131.5	131.3	131.5	131.7	131.9



TEST NUMBER: P332121-940

CATALOG NUMBER: S123DIW-S560D460U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	148.1	148.0	148.0	147.9	147.8	147.8	147.6	147.5	147.6	147.8	147.8
115°	172.5	172.7	172.9	172.8	172.5	172.3	172.0	171.7	172.0	172.3	172.5
117.5°	196.4	196.6	196.8	196.9	196.7	196.5	196.4	196.2	196.4	196.5	196.7
120°	212.7	213.1	213.6	213.5	212.9	212.4	211.9	211.3	211.9	212.4	212.9
122.5°	228.4	228.6	228.8	228.7	228.4	228.0	227.6	227.2	227.6	228.0	228.4
125°	252.1	252.3	252.4	252.4	252.2	251.9	251.6	251.4	251.6	251.9	252.2
127.5°	275.7	276.0	276.2	276.0	275.4	274.8	274.2	273.7	274.2	274.8	275.4
130°	291.1	291.3	291.6	291.4	290.7	290.0	289.3	288.6	289.3	290.0	290.7
132.5°	306.1	306.3	306.6	306.3	305.6	304.9	304.1	303.4	304.1	304.9	305.6
135°	328.3	328.4	328.5	328.2	327.7	327.2	326.6	326.1	326.6	327.2	327.7
137.5°	349.7	349.5	349.3	348.9	348.5	348.0	347.6	347.1	347.6	348.0	348.5
140°	363.9	363.8	363.7	363.5	363.0	362.6	362.1	361.7	362.1	362.6	363.0
142.5°	377.4	377.2	377.0	376.7	376.3	375.9	375.4	375.0	375.4	375.9	376.3
145°	397.1	396.8	396.5	396.4	396.2	396.0	395.8	395.7	395.8	396.0	396.2
147.5°	415.8	415.5	415.3	415.0	414.6	414.4	414.0	413.8	414.0	414.4	414.6
150°	427.6	427.4	427.2	427.0	426.9	426.7	426.5	426.3	426.5	426.7	426.9
152.5°	438.1	437.9	437.8	437.7	437.4	437.2	436.9	436.7	436.9	437.2	437.4
155°	453.3	453.2	453.1	453.0	453.0	453.0	453.0	453.0	453.0	453.0	453.0
157.5°	466.6	466.5	466.5	466.5	466.5	466.7	466.8	466.9	466.8	466.7	466.5
160°	474.8	474.8	474.8	474.9	475.1	475.3	475.5	475.6	475.5	475.3	475.1
162.5°	482.4	482.3	482.3	482.4	482.6	482.9	483.1	483.4	483.1	482.9	482.6
165°	492.2	492.2	492.2	492.3	492.6	492.8	493.1	493.4	493.1	492.8	492.6
167.5°	500.0	499.9	499.8	500.0	500.3	500.7	501.1	501.4	501.1	500.7	500.3
170°	504.4	504.4	504.4	504.5	504.9	505.2	505.6	506.0	505.6	505.2	504.9
172.5°	507.8	507.8	507.8	508.0	508.5	508.8	509.2	509.5	509.2	508.8	508.5
175°	511.6	511.6	511.6	511.8	512.1	512.5	512.8	513.2	512.8	512.5	512.1
177.5°	513.4	513.4	513.4	513.6	513.9	514.2	514.4	514.8	514.4	514.2	513.9
180°	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4



TEST NUMBER: P332121-940

CATALOG NUMBER: S123DIW-S560D460U940-4F0-1E-UDD-A1

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	7.3	7.3	8.2	7.2
90°	4.0	5.0	6.2	7.4	8.6	9.7	10.1	10.4	10.8	11.1	11.4
92.5°	12.2	12.8	13.6	14.2	14.9	15.5	15.8	16.1	16.4	16.7	16.8
95°	26.4	27.0	27.7	28.4	29.2	29.9	30.2	30.6	30.9	31.3	31.5
97.5°	44.2	44.7	45.2	45.7	46.3	46.8	47.2	47.6	48.1	48.4	48.6
100°	57.1	57.6	58.1	58.5	58.9	59.4	59.7	59.9	60.2	60.5	60.7
102.5°	70.8	71.2	71.9	72.4	73.0	73.7	73.9	74.2	74.5	74.7	74.8
105°	91.7	92.1	92.9	93.7	94.5	95.3	95.3	95.3	95.3	95.3	95.4
107.5°	116.3	116.5	116.8	117.1	117.4	117.8	118.1	118.3	118.6	118.9	119.0
110°	132.1	132.2	132.4	132.6	132.8	133.0	133.3	133.7	134.0	134.4	134.5



TEST NUMBER: P332121-940

CATALOG NUMBER: S123DIW-S560D460U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	147.9	148.0	148.0	148.1	148.1	148.1	148.6	149.0	149.5	149.9	150.1
115°	172.8	172.9	172.7	172.5	172.4	172.2	172.3	172.4	172.5	172.5	172.5
117.5°	196.9	196.8	196.6	196.4	196.2	195.9	195.9	195.9	195.8	195.8	195.7
120°	213.5	213.6	213.1	212.7	212.2	211.8	211.7	211.6	211.5	211.4	211.2
122.5°	228.7	228.8	228.6	228.4	228.2	227.9	227.7	227.5	227.2	226.9	226.8
125°	252.4	252.4	252.3	252.1	251.9	251.7	251.4	251.0	250.7	250.3	249.9
127.5°	276.0	276.2	276.0	275.7	275.5	275.4	274.8	274.4	273.8	273.3	272.9
130°	291.4	291.6	291.3	291.1	290.8	290.5	290.2	289.8	289.4	289.1	288.6
132.5°	306.3	306.6	306.3	306.1	305.9	305.8	305.3	304.9	304.4	304.0	303.5
135°	328.2	328.5	328.4	328.3	328.2	328.1	327.8	327.4	327.1	326.7	326.5
137.5°	348.9	349.3	349.5	349.7	350.0	350.2	349.8	349.5	349.1	348.7	348.3
140°	363.5	363.7	363.8	363.9	364.0	364.1	364.0	363.9	363.8	363.7	363.4
142.5°	376.7	377.0	377.2	377.4	377.6	377.6	377.6	377.5	377.4	377.3	377.0
145°	396.4	396.5	396.8	397.1	397.3	397.6	397.5	397.4	397.3	397.3	397.1
147.5°	415.0	415.3	415.5	415.8	416.1	416.3	416.3	416.3	416.3	416.3	416.1
150°	427.0	427.2	427.4	427.6	427.8	427.9	427.9	427.9	427.9	427.9	427.7
152.5°	437.7	437.8	437.9	438.1	438.2	438.3	438.5	438.5	438.7	438.9	438.7
155°	453.0	453.1	453.2	453.3	453.3	453.4	453.8	454.1	454.5	454.9	454.7
157.5°	466.5	466.5	466.5	466.6	466.6	466.7	467.1	467.5	467.9	468.2	468.1
160°	474.9	474.8	474.8	474.8	474.8	474.8	475.3	475.7	476.2	476.6	476.6
162.5°	482.4	482.3	482.3	482.4	482.5	482.6	483.0	483.5	483.9	484.4	484.3
165°	492.3	492.2	492.2	492.2	492.2	492.2	492.8	493.3	493.8	494.4	494.3
167.5°	500.0	499.8	499.9	500.0	500.1	500.1	500.7	501.2	501.8	502.3	502.3
170°	504.5	504.4	504.4	504.4	504.4	504.4	505.0	505.6	506.2	506.8	506.8
172.5°	508.0	507.8	507.8	507.8	507.8	507.8	508.5	509.0	509.5	510.1	510.1
175°	511.8	511.6	511.6	511.6	511.6	511.6	512.1	512.6	513.2	513.7	513.7
177.5°	513.6	513.4	513.4	513.4	513.4	513.4	513.9	514.3	514.8	515.1	515.1
180°	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4



TEST NUMBER: P332121-940

CATALOG NUMBER: S123DIW-S560D460U940-4F0-1E-UDD-A1

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	7.3	7.0	6.8	7.0	7.3	7.2	7.2	8.2	7.3	7.3
90°	11.6	11.8	11.9	12.1	11.9	11.8	11.6	11.4	11.1	10.8	10.4
92.5°	16.7	16.5	16.4	16.3	16.4	16.5	16.7	16.8	16.7	16.4	16.1
95°	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.3	30.9	30.6
97.5°	48.6	48.6	48.5	48.5	48.5	48.6	48.6	48.6	48.4	48.1	47.6
100°	60.9	61.1	61.3	61.4	61.3	61.1	60.9	60.7	60.5	60.2	59.9
102.5°	74.8	74.7	74.7	74.6	74.7	74.7	74.8	74.8	74.7	74.5	74.2
105°	95.7	95.9	96.0	96.2	96.0	95.9	95.7	95.4	95.3	95.3	95.3
107.5°	118.9	118.8	118.7	118.6	118.7	118.8	118.9	119.0	118.9	118.6	118.3
110°	134.3	134.1	133.9	133.8	133.9	134.1	134.3	134.5	134.4	134.0	133.7



TEST NUMBER: P332121-940

CATALOG NUMBER: S123DIW-S560D460U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	150.0	150.0	150.0	149.9	150.0	150.0	150.0	150.1	149.9	149.5	149.0
115°	172.5	172.4	172.3	172.2	172.3	172.4	172.5	172.5	172.5	172.5	172.4
117.5°	195.5	195.2	194.9	194.7	194.9	195.2	195.5	195.7	195.8	195.8	195.9
120°	211.1	210.9	210.7	210.5	210.7	210.9	211.1	211.2	211.4	211.5	211.6
122.5°	226.5	226.2	226.0	225.7	226.0	226.2	226.5	226.8	226.9	227.2	227.5
125°	249.6	249.2	248.9	248.5	248.9	249.2	249.6	249.9	250.3	250.7	251.0
127.5°	272.5	272.1	271.6	271.3	271.6	272.1	272.5	272.9	273.3	273.8	274.4
130°	288.0	287.4	286.8	286.1	286.8	287.4	288.0	288.6	289.1	289.4	289.8
132.5°	303.1	302.6	302.1	301.6	302.1	302.6	303.1	303.5	304.0	304.4	304.9
135°	326.3	326.1	325.9	325.7	325.9	326.1	326.3	326.5	326.7	327.1	327.4
137.5°	347.9	347.7	347.3	347.0	347.3	347.7	347.9	348.3	348.7	349.1	349.5
140°	362.7	362.1	361.5	360.9	361.5	362.1	362.7	363.4	363.7	363.8	363.9
142.5°	376.6	376.0	375.6	375.1	375.6	376.0	376.6	377.0	377.3	377.4	377.5
145°	396.7	396.4	396.0	395.7	396.0	396.4	396.7	397.1	397.3	397.3	397.4
147.5°	415.5	414.9	414.4	413.8	414.4	414.9	415.5	416.1	416.3	416.3	416.3
150°	427.1	426.6	426.1	425.5	426.1	426.6	427.1	427.7	427.9	427.9	427.9
152.5°	438.3	437.7	437.3	436.8	437.3	437.7	438.3	438.7	438.9	438.7	438.5
155°	454.1	453.4	452.8	452.2	452.8	453.4	454.1	454.7	454.9	454.5	454.1
157.5°	467.7	467.2	466.6	466.2	466.6	467.2	467.7	468.1	468.2	467.9	467.5
160°	476.3	475.9	475.5	475.2	475.5	475.9	476.3	476.6	476.6	476.2	475.7
162.5°	483.8	483.1	482.6	482.0	482.6	483.1	483.8	484.3	484.4	483.9	483.5
165°	493.7	493.0	492.4	491.8	492.4	493.0	493.7	494.3	494.4	493.8	493.3
167.5°	501.8	501.2	500.7	500.1	500.7	501.2	501.8	502.3	502.3	501.8	501.2
170°	506.2	505.6	505.0	504.4	505.0	505.6	506.2	506.8	506.8	506.2	505.6
172.5°	509.4	508.8	508.2	507.6	508.2	508.8	509.4	510.1	510.1	509.5	509.0
175°	513.1	512.5	511.8	511.2	511.8	512.5	513.1	513.7	513.7	513.2	512.6
177.5°	514.6	514.2	513.6	513.1	513.6	514.2	514.6	515.1	515.1	514.8	514.3
180°	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4



TEST NUMBER: P332121-940

CATALOG NUMBER: S123DIW-S560D460U940-4F0-1E-UDD-A1

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°	10.1	9.7	8.6	7.4	6.2	5.0	4.0	3.1	2.2	1.3	0.4
92.5°	15.8	15.5	14.9	14.2	13.6	12.8	12.2	11.6	11.0	10.4	9.8
95°	30.2	29.9	29.2	28.4	27.7	27.0	26.4	25.8	25.1	24.4	23.8
97.5°	47.2	46.8	46.3	45.7	45.2	44.7	44.2	43.8	43.2	42.8	42.4
100°	59.7	59.4	58.9	58.5	58.1	57.6	57.1	56.5	56.0	55.5	54.9
102.5°	73.9	73.7	73.0	72.4	71.9	71.2	70.8	70.4	70.2	69.8	69.5
105°	95.3	95.3	94.5	93.7	92.9	92.1	91.7	91.5	91.3	91.1	91.0
107.5°	118.1	117.8	117.4	117.1	116.8	116.5	116.3	116.1	116.0	115.9	115.8
110°	133.3	133.0	132.8	132.6	132.4	132.2	132.1	131.9	131.7	131.5	131.3



TEST NUMBER: P332121-940

CATALOG NUMBER: S123DIW-S560D460U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	148.6	148.1	148.1	148.1	148.0	148.0	147.9	147.8	147.8	147.6	147.5
115°	172.3	172.2	172.4	172.5	172.7	172.9	172.8	172.5	172.3	172.0	171.7
117.5°	195.9	195.9	196.2	196.4	196.6	196.8	196.9	196.7	196.5	196.4	196.2
120°	211.7	211.8	212.2	212.7	213.1	213.6	213.5	212.9	212.4	211.9	211.3
122.5°	227.7	227.9	228.2	228.4	228.6	228.8	228.7	228.4	228.0	227.6	227.2
125°	251.4	251.7	251.9	252.1	252.3	252.4	252.4	252.2	251.9	251.6	251.4
127.5°	274.8	275.4	275.5	275.7	276.0	276.2	276.0	275.4	274.8	274.2	273.7
130°	290.2	290.5	290.8	291.1	291.3	291.6	291.4	290.7	290.0	289.3	288.6
132.5°	305.3	305.8	305.9	306.1	306.3	306.6	306.3	305.6	304.9	304.1	303.4
135°	327.8	328.1	328.2	328.3	328.4	328.5	328.2	327.7	327.2	326.6	326.1
137.5°	349.8	350.2	350.0	349.7	349.5	349.3	348.9	348.5	348.0	347.6	347.1
140°	364.0	364.1	364.0	363.9	363.8	363.7	363.5	363.0	362.6	362.1	361.7
142.5°	377.6	377.6	377.6	377.4	377.2	377.0	376.7	376.3	375.9	375.4	375.0
145°	397.5	397.6	397.3	397.1	396.8	396.5	396.4	396.2	396.0	395.8	395.7
147.5°	416.3	416.3	416.1	415.8	415.5	415.3	415.0	414.6	414.4	414.0	413.8
150°	427.9	427.9	427.8	427.6	427.4	427.2	427.0	426.9	426.7	426.5	426.3
152.5°	438.5	438.3	438.2	438.1	437.9	437.8	437.7	437.4	437.2	436.9	436.7
155°	453.8	453.4	453.3	453.3	453.2	453.1	453.0	453.0	453.0	453.0	453.0
157.5°	467.1	466.7	466.6	466.6	466.5	466.5	466.5	466.5	466.7	466.8	466.9
160°	475.3	474.8	474.8	474.8	474.8	474.8	474.9	475.1	475.3	475.5	475.6
162.5°	483.0	482.6	482.5	482.4	482.3	482.3	482.4	482.6	482.9	483.1	483.4
165°	492.8	492.2	492.2	492.2	492.2	492.2	492.3	492.6	492.8	493.1	493.4
167.5°	500.7	500.1	500.1	500.0	499.9	499.8	500.0	500.3	500.7	501.1	501.4
170°	505.0	504.4	504.4	504.4	504.4	504.4	504.5	504.9	505.2	505.6	506.0
172.5°	508.5	507.8	507.8	507.8	507.8	507.8	508.0	508.5	508.8	509.2	509.5
175°	512.1	511.6	511.6	511.6	511.6	511.6	511.8	512.1	512.5	512.8	513.2
177.5°	513.9	513.4	513.4	513.4	513.4	513.4	513.6	513.9	514.2	514.4	514.8
180°	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4



TEST NUMBER: P332121-940

CATALOG NUMBER: S123DIW-S560D460U940-4F0-1E-UDD-A1

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	10.6	11.6	11.6	11.2	11.2	11.1	10.8
90°	1.3	2.2	3.1	4.0	5.0	6.2	7.4	8.6	9.7	10.1	10.4
92.5°	10.4	11.0	11.6	12.2	12.8	13.6	14.2	14.9	15.5	15.8	16.1
95°	24.4	25.1	25.8	26.4	27.0	27.7	28.4	29.2	29.9	30.2	30.6
97.5°	42.8	43.2	43.8	44.2	44.7	45.2	45.7	46.3	46.8	47.2	47.6
100°	55.5	56.0	56.5	57.1	57.6	58.1	58.5	58.9	59.4	59.7	59.9
102.5°	69.8	70.2	70.4	70.8	71.2	71.9	72.4	73.0	73.7	73.9	74.2
105°	91.1	91.3	91.5	91.7	92.1	92.9	93.7	94.5	95.3	95.3	95.3
107.5°	115.9	116.0	116.1	116.3	116.5	116.8	117.1	117.4	117.8	118.1	118.3
110°	131.5	131.7	131.9	132.1	132.2	132.4	132.6	132.8	133.0	133.3	133.7



TEST NUMBER: P332121-940

CATALOG NUMBER: S123DIW-S560D460U940-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	147.6	147.8	147.8	147.9	148.0	148.0	148.1	148.1	148.1	148.6	149.0
115°	172.0	172.3	172.5	172.8	172.9	172.7	172.5	172.4	172.2	172.3	172.4
117.5°	196.4	196.5	196.7	196.9	196.8	196.6	196.4	196.2	195.9	195.9	195.9
120°	211.9	212.4	212.9	213.5	213.6	213.1	212.7	212.2	211.8	211.7	211.6
122.5°	227.6	228.0	228.4	228.7	228.8	228.6	228.4	228.2	227.9	227.7	227.5
125°	251.6	251.9	252.2	252.4	252.4	252.3	252.1	251.9	251.7	251.4	251.0
127.5°	274.2	274.8	275.4	276.0	276.2	276.0	275.7	275.5	275.4	274.8	274.4
130°	289.3	290.0	290.7	291.4	291.6	291.3	291.1	290.8	290.5	290.2	289.8
132.5°	304.1	304.9	305.6	306.3	306.6	306.3	306.1	305.9	305.8	305.3	304.9
135°	326.6	327.2	327.7	328.2	328.5	328.4	328.3	328.2	328.1	327.8	327.4
137.5°	347.6	348.0	348.5	348.9	349.3	349.5	349.7	350.0	350.2	349.8	349.5
140°	362.1	362.6	363.0	363.5	363.7	363.8	363.9	364.0	364.1	364.0	363.9
142.5°	375.4	375.9	376.3	376.7	377.0	377.2	377.4	377.6	377.6	377.6	377.5
145°	395.8	396.0	396.2	396.4	396.5	396.8	397.1	397.3	397.6	397.5	397.4
147.5°	414.0	414.4	414.6	415.0	415.3	415.5	415.8	416.1	416.3	416.3	416.3
150°	426.5	426.7	426.9	427.0	427.2	427.4	427.6	427.8	427.9	427.9	427.9
152.5°	436.9	437.2	437.4	437.7	437.8	437.9	438.1	438.2	438.3	438.5	438.5
155°	453.0	453.0	453.0	453.0	453.1	453.2	453.3	453.3	453.4	453.8	454.1
157.5°	466.8	466.7	466.5	466.5	466.5	466.5	466.6	466.6	466.7	467.1	467.5
160°	475.5	475.3	475.1	474.9	474.8	474.8	474.8	474.8	474.8	475.3	475.7
162.5°	483.1	482.9	482.6	482.4	482.3	482.3	482.4	482.5	482.6	483.0	483.5
165°	493.1	492.8	492.6	492.3	492.2	492.2	492.2	492.2	492.2	492.8	493.3
167.5°	501.1	500.7	500.3	500.0	499.8	499.9	500.0	500.1	500.1	500.7	501.2
170°	505.6	505.2	504.9	504.5	504.4	504.4	504.4	504.4	504.4	505.0	505.6
172.5°	509.2	508.8	508.5	508.0	507.8	507.8	507.8	507.8	507.8	508.5	509.0
175°	512.8	512.5	512.1	511.8	511.6	511.6	511.6	511.6	511.6	512.1	512.6
177.5°	514.4	514.2	513.9	513.6	513.4	513.4	513.4	513.4	513.4	513.9	514.3
180°	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4	514.4



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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°	10.6	10.4	10.2	10.5	10.3	10.1	10.6
90°	10.8	11.1	11.4	11.6	11.8	11.9	12.1
92.5°	16.4	16.7	16.8	16.7	16.5	16.4	16.3
95°	30.9	31.3	31.5	31.5	31.5	31.5	31.5
97.5°	48.1	48.4	48.6	48.6	48.6	48.5	48.5
100°	60.2	60.5	60.7	60.9	61.1	61.3	61.4
102.5°	74.5	74.7	74.8	74.8	74.7	74.7	74.6
105°	95.3	95.3	95.4	95.7	95.9	96.0	96.2
107.5°	118.6	118.9	119.0	118.9	118.8	118.7	118.6
110°	134.0	134.4	134.5	134.3	134.1	133.9	133.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	149.5	149.9	150.1	150.0	150.0	150.0	149.9
115°	172.5	172.5	172.5	172.5	172.4	172.3	172.2
117.5°	195.8	195.8	195.7	195.5	195.2	194.9	194.7
120°	211.5	211.4	211.2	211.1	210.9	210.7	210.5
122.5°	227.2	226.9	226.8	226.5	226.2	226.0	225.7
125°	250.7	250.3	249.9	249.6	249.2	248.9	248.5
127.5°	273.8	273.3	272.9	272.5	272.1	271.6	271.3
130°	289.4	289.1	288.6	288.0	287.4	286.8	286.1
132.5°	304.4	304.0	303.5	303.1	302.6	302.1	301.6
135°	327.1	326.7	326.5	326.3	326.1	325.9	325.7
137.5°	349.1	348.7	348.3	347.9	347.7	347.3	347.0
140°	363.8	363.7	363.4	362.7	362.1	361.5	360.9
142.5°	377.4	377.3	377.0	376.6	376.0	375.6	375.1
145°	397.3	397.3	397.1	396.7	396.4	396.0	395.7
147.5°	416.3	416.3	416.1	415.5	414.9	414.4	413.8
150°	427.9	427.9	427.7	427.1	426.6	426.1	425.5
152.5°	438.7	438.9	438.7	438.3	437.7	437.3	436.8
155°	454.5	454.9	454.7	454.1	453.4	452.8	452.2
157.5°	467.9	468.2	468.1	467.7	467.2	466.6	466.2
160°	476.2	476.6	476.6	476.3	475.9	475.5	475.2
162.5°	483.9	484.4	484.3	483.8	483.1	482.6	482.0
165°	493.8	494.4	494.3	493.7	493.0	492.4	491.8
167.5°	501.8	502.3	502.3	501.8	501.2	500.7	500.1
170°	506.2	506.8	506.8	506.2	505.6	505.0	504.4
172.5°	509.5	510.1	510.1	509.4	508.8	508.2	507.6
175°	513.2	513.7	513.7	513.1	512.5	511.8	511.2
177.5°	514.8	515.1	515.1	514.6	514.2	513.6	513.1
180°	514.4	514.4	514.4	514.4	514.4	514.4	514.4

(END OF REPORT)