

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: P332410-940

Luminaire Tested: **S123RDIW-S560D460U940-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332410-940  
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: S123RDIW-S560D460U940-4F0-1E-UDD-A  
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 460 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3632.4 lumens  
Efficiency: N/A  
Efficacy: 120.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: General Diffuse

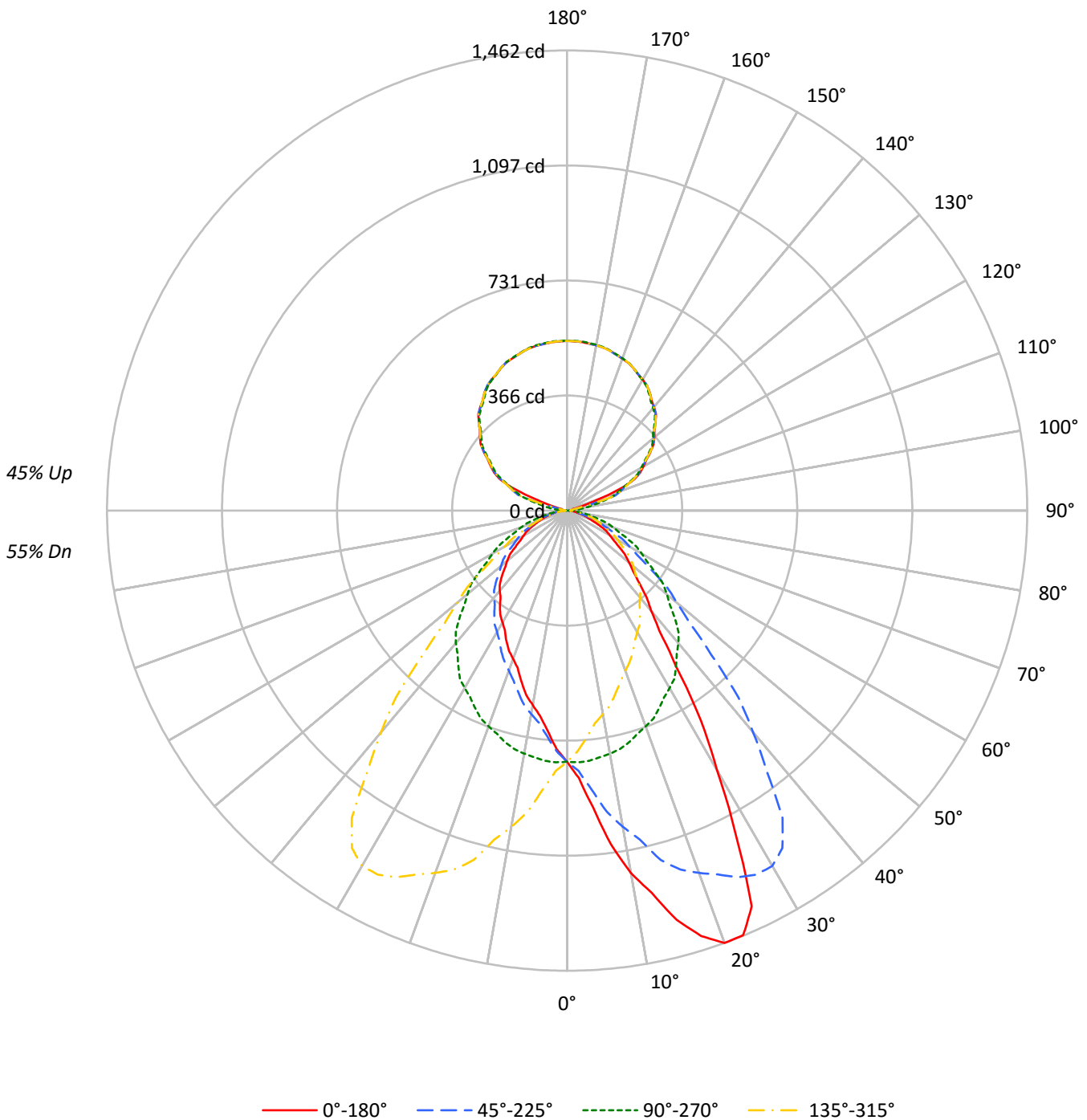
Input Watts (W): 30.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
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	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60	55
1	99	95	92	88	92	89	86	83	76	74	72	65	63	62	54	53	52	47
2	91	84	78	73	84	78	73	69	68	64	61	58	55	53	49	47	45	41
3	84	74	67	62	77	70	63	58	60	56	52	52	48	45	44	41	39	35
4	77	66	59	53	71	62	55	50	54	49	45	46	43	39	39	37	34	31
5	71	59	52	46	66	56	49	43	49	43	39	42	38	34	36	33	30	27
6	65	54	46	40	61	50	43	38	44	38	34	38	34	31	33	29	27	24
7	61	49	41	35	56	46	39	34	40	34	30	35	30	27	30	27	24	22
8	56	44	37	31	52	42	35	30	37	31	27	32	28	24	28	24	22	19
9	52	40	33	28	49	38	31	27	34	28	25	30	25	22	26	22	20	18
10	49	37	30	25	46	35	29	24	31	26	22	27	23	20	24	20	18	16

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

	0°	90°	180°	270°
0°	8587	8587	8587	8587
5°	10237	8625	7595	8625
10°	12783	8575	6862	8575
15°	15004	8487	6257	8487
20°	16745	8356	5743	8356
25°	16476	8219	5428	8219
30°	11844	8090	5102	8090
35°	7908	7926	4892	7926
40°	5826	7727	4675	7727
45°	4886	7377	4460	7377
50°	4312	6921	4163	6921
55°	3781	6397	3755	6397
60°	3367	5896	3442	5896
65°	2957	5359	3202	5359
70°	2319	4881	2924	4881
75°	2046	4263	2670	4263
80°	1779	3620	2628	3620
85°	1433	2902	2791	2902



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.5	2.2
10°-20°	245.1	6.7
20°-30°	385.1	10.6
30°-40°	401.8	11.1
40°-50°	343.8	9.5
50°-60°	262.1	7.2
60°-70°	168.0	4.6
70°-80°	80.8	2.2
80°-90°	22.9	0.6
90°-100°	19.6	0.5
100°-110°	93.4	2.6
110°-120°	224.4	6.2
120°-130°	285.8	7.9
130°-140°	305.4	8.4
140°-150°	285.5	7.9
150°-160°	230.3	6.3
160°-170°	148.7	4.1
170°-180°	51.2	1.4
0°-30°	708.7	19.5
0°-40°	1110.4	30.6
0°-60°	1716.3	47.3
0°-90°	1988.0	54.7
90°-120°	337.5	9.3
90°-150°	1214.2	33.4
90°-180°	1644.0	45.3
0°-180°	3632.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	798	798	798	798	798	
5°	947	798	703	798	947	98
15°	1346	762	562	762	1346	382
25°	1387	692	457	692	1387	596
35°	602	603	372	603	602	395
45°	321	485	293	485	321	252
55°	202	341	200	341	202	182
65°	116	210	126	210	116	114
75°	49	102	64	102	49	53
85°	12	24	23	24	12	14
90°	12	0	12	0	12	6
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	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8
2.5°	849.7	850.9	847.3	846.8	842.7	841.6	841.6	835.8	832.2	827.6	824.9
5°	947.4	952.9	950.2	944.1	933.8	931.4	924.9	914.6	903.0	888.7	881.9
7.5°	1069.4	1076.9	1074.0	1064.5	1053.8	1045.1	1026.8	1009.8	986.0	965.1	947.2
10°	1169.5	1161.5	1155.5	1146.2	1136.3	1120.3	1101.2	1074.9	1044.5	1020.6	993.9
12.5°	1244.3	1243.0	1235.2	1225.7	1211.7	1196.5	1173.0	1140.9	1105.6	1071.0	1040.6
15°	1346.4	1348.4	1343.3	1333.4	1313.6	1286.6	1251.1	1237.8	1187.2	1149.6	1112.1
17.5°	1417.0	1416.6	1415.9	1402.1	1382.0	1362.7	1329.8	1294.8	1249.0	1196.1	1145.5
20°	1461.8	1458.4	1459.1	1443.7	1428.7	1406.5	1374.4	1323.5	1285.9	1224.8	1172.5
22.5°	1460.7	1460.0	1462.6	1457.3	1446.4	1429.4	1404.2	1361.2	1313.2	1251.5	1192.8
25°	1387.3	1384.6	1400.7	1405.1	1422.5	1425.6	1418.1	1394.5	1349.1	1285.6	1212.8
27.5°	1161.1	1159.6	1189.4	1226.6	1274.0	1310.7	1346.2	1363.3	1349.1	1303.6	1230.7
30°	952.9	985.0	1000.1	1054.0	1114.1	1185.8	1248.7	1308.4	1323.1	1303.3	1243.6
32.5°	791.1	819.1	831.7	878.1	934.1	1018.1	1112.3	1196.9	1256.8	1271.9	1235.9
35°	601.8	602.2	630.8	651.3	703.2	789.6	881.2	994.5	1107.2	1192.7	1201.6
37.5°	480.2	481.9	499.3	519.7	558.7	604.3	684.9	779.2	909.4	1040.4	1117.3
40°	414.6	417.7	430.7	450.8	478.8	513.4	576.2	664.9	773.6	919.4	1038.7
42.5°	372.6	377.6	384.2	399.8	417.1	449.4	500.2	568.8	667.5	805.5	943.0
45°	321.0	323.8	328.9	336.1	351.8	374.3	408.5	454.6	536.5	647.6	785.2
47.5°	283.2	281.8	287.1	293.0	303.4	318.8	341.7	379.3	437.8	526.8	643.6
50°	257.5	257.2	260.9	265.4	275.3	286.6	305.3	333.7	380.1	453.9	560.8
52.5°	233.4	234.8	237.5	243.0	250.1	259.2	276.1	296.5	336.4	400.1	489.2
55°	201.5	202.5	206.3	209.4	214.5	223.7	234.3	251.4	278.7	323.1	396.5
57.5°	174.4	174.0	177.6	178.3	184.1	191.6	199.8	213.1	232.9	265.9	315.4
60°	156.4	155.4	158.5	160.9	163.9	170.0	176.9	189.9	205.6	229.9	272.2
62.5°	140.0	139.6	141.8	144.2	146.7	152.3	158.1	168.0	180.5	200.9	234.5
65°	116.1	117.2	118.2	119.2	120.6	123.9	129.5	136.3	144.8	159.2	183.4
67.5°	91.2	92.3	92.6	94.7	97.6	99.8	103.2	109.2	115.2	127.2	141.1
70°	73.7	73.4	73.7	74.8	78.6	82.3	86.8	91.2	95.0	103.5	115.1
72.5°	63.4	62.8	63.7	63.8	65.7	66.7	69.6	73.7	78.6	84.4	92.7
75°	49.2	49.2	49.2	49.2	50.6	51.3	52.3	53.3	55.0	57.7	63.8
77.5°	36.4	36.4	36.9	37.2	37.5	37.9	38.5	39.6	40.1	41.6	44.2
80°	28.7	29.1	28.7	29.1	29.1	29.7	30.1	31.1	31.4	33.2	34.2
82.5°	21.6	21.4	21.6	21.9	21.9	22.6	22.6	23.5	23.5	24.3	25.4
85°	11.6	11.0	11.6	11.2	11.9	11.2	11.6	12.3	12.3	12.7	14.0
87.5°	5.2	5.6	5.1	5.3	5.3	5.5	5.4	5.4	5.8	5.4	5.5
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



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**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



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8
2.5°	823.8	823.0	819.1	814.8	809.0	805.2	802.2	800.6	795.7	789.6	785.5
5°	874.7	864.4	853.5	840.2	827.9	815.3	807.4	798.2	786.9	774.3	765.4
7.5°	929.2	909.1	887.4	865.1	843.0	823.2	805.7	790.8	772.8	754.7	742.0
10°	971.0	941.6	911.2	880.1	851.8	825.2	804.7	784.5	763.0	742.2	726.5
12.5°	1009.0	970.4	935.3	897.1	860.9	829.0	799.5	775.8	749.9	727.7	709.8
15°	1057.0	1017.4	975.1	917.0	868.9	828.6	792.7	761.6	730.2	702.9	685.5
17.5°	1102.0	1042.4	985.5	937.0	874.5	824.1	780.3	743.2	708.7	679.8	658.3
20°	1120.6	1062.9	1001.0	939.2	877.8	821.4	770.5	729.5	693.7	660.8	641.1
22.5°	1131.8	1066.4	1001.3	934.9	869.6	811.0	760.7	715.6	676.7	645.6	621.2
25°	1144.9	1066.9	995.2	929.7	863.1	799.5	739.8	692.0	650.0	616.8	590.8
27.5°	1153.4	1061.8	977.0	904.2	836.6	773.4	718.6	667.9	625.3	590.2	562.4
30°	1155.1	1057.7	963.1	884.2	815.6	757.5	699.5	650.9	605.9	568.6	542.7
32.5°	1157.3	1047.7	944.3	860.5	790.2	732.7	680.1	633.7	587.5	550.9	524.4
35°	1148.3	1042.1	915.7	819.4	749.0	693.3	645.9	603.2	557.8	522.2	495.3
37.5°	1109.5	1019.8	886.0	773.0	699.5	647.9	609.2	572.0	530.4	492.0	466.6
40°	1070.4	998.0	863.1	744.9	668.1	615.1	580.2	549.9	509.6	473.7	446.4
42.5°	1012.2	968.2	841.2	715.4	632.5	581.5	552.1	523.6	488.3	451.8	426.1
45°	905.4	911.2	796.5	668.4	583.4	532.1	504.4	484.6	453.3	423.2	396.9
47.5°	771.5	825.8	744.0	618.3	531.5	483.4	459.2	441.9	420.8	391.3	367.3
50°	684.1	761.6	701.9	584.7	499.0	451.2	427.3	413.3	394.8	371.6	348.7
52.5°	603.5	686.8	651.0	547.2	463.8	420.0	396.6	385.1	370.5	348.7	328.0
55°	492.1	576.5	568.3	490.8	410.9	371.6	353.8	340.9	330.9	314.6	298.2
57.5°	398.1	478.0	482.3	427.9	364.3	325.5	310.2	300.4	293.9	281.6	266.4
60°	338.9	412.2	426.6	385.6	330.9	296.8	281.8	273.9	268.8	258.9	247.3
62.5°	289.6	352.1	368.4	338.9	299.0	267.0	255.3	247.7	244.2	235.7	225.4
65°	221.7	273.6	289.3	272.9	252.1	226.4	216.9	210.4	207.3	202.5	195.0
67.5°	166.7	204.6	221.8	210.2	202.7	186.5	180.4	176.9	174.2	170.9	164.6
70°	133.8	161.9	179.7	176.6	170.4	161.9	157.5	155.1	152.3	149.6	144.1
72.5°	107.6	126.9	143.6	145.2	140.1	138.4	134.5	133.5	131.8	128.6	125.6
75°	71.4	84.7	96.3	100.8	102.8	104.5	102.8	102.5	102.1	99.4	97.6
77.5°	46.8	53.9	61.3	68.8	72.1	74.4	74.9	76.2	75.3	73.8	73.0
80°	35.8	37.5	42.7	49.2	54.3	56.4	57.7	58.4	58.1	57.7	56.4
82.5°	26.0	27.5	29.9	34.4	38.7	42.2	43.0	42.8	43.6	43.8	42.7
85°	14.0	14.4	15.1	15.7	18.1	21.8	22.9	23.5	24.3	24.3	22.2
87.5°	5.8	5.4	5.6	5.4	6.1	6.2	7.7	8.8	9.3	8.4	8.6
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: P332410-940

CATALOG NUMBER: S123RDIW-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: P332410-940

CATALOG NUMBER: S123RDIW-S560D460U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8
2.5°	784.2	780.6	778.2	772.7	769.2	765.4	761.5	763.9	763.7	763.4	763.4
5°	757.9	750.0	742.9	733.6	727.8	720.7	715.2	714.5	715.9	711.1	708.4
7.5°	731.8	721.0	710.9	700.7	689.9	681.3	675.9	673.4	669.9	667.0	663.9
10°	713.5	700.9	690.9	678.3	666.7	656.5	650.0	645.5	643.1	640.7	636.3
12.5°	694.6	682.2	669.6	655.3	644.3	632.4	627.6	622.6	618.0	615.3	609.2
15°	667.0	650.9	637.7	622.6	610.4	598.7	591.9	582.0	580.6	577.2	571.1
17.5°	639.4	622.0	603.6	592.5	578.5	566.5	556.1	552.8	543.0	539.3	534.0
20°	617.5	601.5	587.5	572.7	552.6	541.4	533.2	528.7	520.8	516.0	512.6
22.5°	598.7	582.3	566.1	549.0	532.4	519.8	513.7	506.8	502.6	495.9	492.1
25°	571.8	554.0	534.5	516.0	504.1	494.5	485.0	478.8	472.7	469.6	462.8
27.5°	540.5	521.9	503.7	489.7	475.0	465.6	456.9	451.5	444.1	438.9	435.2
30°	523.3	501.4	485.7	473.1	454.2	445.4	438.9	432.0	426.6	421.2	417.3
32.5°	503.3	483.3	468.4	452.8	438.4	428.7	420.3	414.3	409.7	404.5	400.7
35°	472.0	455.3	439.9	424.2	413.6	403.7	393.8	388.7	384.2	379.4	376.0
37.5°	443.7	428.1	413.5	398.6	385.5	377.4	369.4	365.5	359.5	356.3	352.8
40°	426.2	410.9	395.2	380.8	367.1	361.1	353.8	348.0	342.6	340.2	336.4
42.5°	407.2	391.7	378.5	363.0	351.9	343.5	336.9	330.6	326.5	323.0	320.8
45°	378.8	365.1	352.1	336.8	326.2	319.0	311.5	305.7	301.9	299.5	295.8
47.5°	351.2	337.6	324.4	311.0	300.8	292.6	285.1	281.0	276.1	273.1	270.5
50°	331.3	319.0	305.0	292.7	282.5	274.3	268.1	263.0	258.5	254.8	253.1
52.5°	313.0	299.9	287.8	276.3	265.6	256.2	250.7	245.2	241.9	237.6	235.6
55°	282.8	270.2	259.9	248.6	238.1	230.2	223.4	218.6	215.2	210.4	207.7
57.5°	254.4	243.1	230.9	221.1	210.2	203.6	197.9	191.4	187.3	183.5	180.8
60°	235.3	222.3	211.8	202.5	193.0	184.4	179.3	174.2	169.8	165.9	163.6
62.5°	215.3	204.0	194.0	184.0	175.2	167.7	161.8	157.5	153.6	151.2	148.8
65°	184.8	175.9	165.7	157.5	149.3	143.8	139.0	135.3	132.5	130.8	128.8
67.5°	156.7	148.0	139.1	131.0	125.6	121.4	118.2	115.0	113.7	111.5	110.1
70°	138.3	129.5	121.6	115.5	109.9	106.9	104.9	102.5	101.1	98.4	97.0
72.5°	118.4	112.0	106.3	101.2	96.8	94.1	91.5	88.5	86.3	83.4	81.9
75°	93.3	87.5	83.0	79.5	76.9	73.1	69.4	66.3	65.3	64.2	63.8
77.5°	69.0	65.4	62.2	59.3	55.9	53.1	52.3	51.6	51.5	50.9	50.9
80°	54.3	50.9	48.5	45.1	43.1	43.1	43.1	42.4	42.7	42.7	42.7
82.5°	40.4	37.2	35.9	34.7	34.3	34.6	34.6	34.7	34.5	35.0	34.8
85°	20.9	21.1	21.8	21.5	21.8	21.8	22.6	22.2	22.6	21.8	22.6
87.5°	8.5	9.5	10.0	10.4	11.0	11.0	11.3	11.3	11.7	11.8	11.9
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: P332410-940

CATALOG NUMBER: S123RDIW-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: P332410-940

CATALOG NUMBER: S123RDIW-S560D460U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8
2.5°	760.1	759.8	760.1	759.0	760.1	759.8	760.1	763.4	763.4	763.7	763.9
5°	707.3	706.9	706.0	702.9	706.0	706.9	707.3	708.4	711.1	715.9	714.5
7.5°	661.2	660.8	657.7	657.8	657.7	660.8	661.2	663.9	667.0	669.9	673.4
10°	633.9	634.3	630.2	627.8	630.2	634.3	633.9	636.3	640.7	643.1	645.5
12.5°	607.4	605.8	602.5	599.9	602.5	605.8	607.4	609.2	615.3	618.0	622.6
15°	572.4	569.0	560.8	561.5	560.8	569.0	572.4	571.1	577.2	580.6	582.0
17.5°	531.2	528.7	528.6	523.8	528.6	528.7	531.2	534.0	539.3	543.0	552.8
20°	507.2	505.5	506.1	501.4	506.1	505.5	507.2	512.6	516.0	520.8	528.7
22.5°	488.3	486.6	483.8	482.2	483.8	486.6	488.3	492.1	495.9	502.6	506.8
25°	460.7	458.0	455.3	457.0	455.3	458.0	460.7	462.8	469.6	472.7	478.8
27.5°	433.1	431.1	428.4	428.0	428.4	431.1	433.1	435.2	438.9	444.1	451.5
30°	415.6	413.6	412.2	410.5	412.2	413.6	415.6	417.3	421.2	426.6	432.0
32.5°	397.9	397.5	395.0	394.7	395.0	397.5	397.9	400.7	404.5	409.7	414.3
35°	374.7	372.6	371.9	372.3	371.9	372.6	374.7	376.0	379.4	384.2	388.7
37.5°	352.6	349.9	348.7	347.4	348.7	349.9	352.6	352.8	356.3	359.5	365.5
40°	336.8	334.0	333.3	332.7	333.3	334.0	336.8	336.4	340.2	342.6	348.0
42.5°	319.0	317.9	317.5	316.3	317.5	317.9	319.0	320.8	323.0	326.5	330.6
45°	294.7	294.4	292.4	293.0	292.4	294.4	294.7	295.8	299.5	301.9	305.7
47.5°	269.2	267.7	266.3	267.2	266.3	267.7	269.2	270.5	273.1	276.1	281.0
50°	251.7	251.0	248.0	248.6	248.0	251.0	251.7	253.1	254.8	258.5	263.0
52.5°	234.3	231.7	230.5	230.1	230.5	231.7	234.3	235.6	237.6	241.9	245.2
55°	205.3	202.2	200.8	200.1	200.8	202.2	205.3	207.7	210.4	215.2	218.6
57.5°	176.8	176.0	175.0	175.7	175.0	176.0	176.8	180.8	183.5	187.3	191.4
60°	160.2	160.2	160.2	159.9	160.2	160.2	160.2	163.6	165.9	169.8	174.2
62.5°	147.3	146.5	146.2	146.7	146.2	146.5	147.3	148.8	151.2	153.6	157.5
65°	127.7	127.4	126.0	125.7	126.0	127.4	127.7	128.8	130.8	132.5	135.3
67.5°	109.2	108.0	107.6	107.1	107.6	108.0	109.2	110.1	111.5	113.7	115.0
70°	95.3	94.6	92.6	92.9	92.6	94.6	95.3	97.0	98.4	101.1	102.5
72.5°	80.3	79.5	79.2	78.6	79.2	79.5	80.3	81.9	83.4	86.3	88.5
75°	63.5	63.2	62.9	64.2	62.9	63.2	63.5	63.8	64.2	65.3	66.3
77.5°	50.9	50.9	51.1	50.6	51.1	50.9	50.9	50.9	50.9	51.5	51.6
80°	42.7	42.7	42.4	42.4	42.4	42.7	42.7	42.7	42.7	42.7	42.4
82.5°	34.2	34.5	34.7	34.2	34.7	34.5	34.2	34.8	35.0	34.5	34.7
85°	22.6	22.2	22.9	22.6	22.9	22.2	22.6	22.6	21.8	22.6	22.2
87.5°	12.4	11.9	11.9	12.2	11.9	11.9	12.4	11.9	11.8	11.7	11.3
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: P332410-940

CATALOG NUMBER: S123RDIW-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: P332410-940

CATALOG NUMBER: S123RDIW-S560D460U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8
2.5°	761.5	765.4	769.2	772.7	778.2	780.6	784.2	785.5	789.6	795.7	800.6
5°	715.2	720.7	727.8	733.6	742.9	750.0	757.9	765.4	774.3	786.9	798.2
7.5°	675.9	681.3	689.9	700.7	710.9	721.0	731.8	742.0	754.7	772.8	790.8
10°	650.0	656.5	666.7	678.3	690.9	700.9	713.5	726.5	742.2	763.0	784.5
12.5°	627.6	632.4	644.3	655.3	669.6	682.2	694.6	709.8	727.7	749.9	775.8
15°	591.9	598.7	610.4	622.6	637.7	650.9	667.0	685.5	702.9	730.2	761.6
17.5°	556.1	566.5	578.5	592.5	603.6	622.0	639.4	658.3	679.8	708.7	743.2
20°	533.2	541.4	552.6	572.7	587.5	601.5	617.5	641.1	660.8	693.7	729.5
22.5°	513.7	519.8	532.4	549.0	566.1	582.3	598.7	621.2	645.6	676.7	715.6
25°	485.0	494.5	504.1	516.0	534.5	554.0	571.8	590.8	616.8	650.0	692.0
27.5°	456.9	465.6	475.0	489.7	503.7	521.9	540.5	562.4	590.2	625.3	667.9
30°	438.9	445.4	454.2	473.1	485.7	501.4	523.3	542.7	568.6	605.9	650.9
32.5°	420.3	428.7	438.4	452.8	468.4	483.3	503.3	524.4	550.9	587.5	633.7
35°	393.8	403.7	413.6	424.2	439.9	455.3	472.0	495.3	522.2	557.8	603.2
37.5°	369.4	377.4	385.5	398.6	413.5	428.1	443.7	466.6	492.0	530.4	572.0
40°	353.8	361.1	367.1	380.8	395.2	410.9	426.2	446.4	473.7	509.6	549.9
42.5°	336.9	343.5	351.9	363.0	378.5	391.7	407.2	426.1	451.8	488.3	523.6
45°	311.5	319.0	326.2	336.8	352.1	365.1	378.8	396.9	423.2	453.3	484.6
47.5°	285.1	292.6	300.8	311.0	324.4	337.6	351.2	367.3	391.3	420.8	441.9
50°	268.1	274.3	282.5	292.7	305.0	319.0	331.3	348.7	371.6	394.8	413.3
52.5°	250.7	256.2	265.6	276.3	287.8	299.9	313.0	328.0	348.7	370.5	385.1
55°	223.4	230.2	238.1	248.6	259.9	270.2	282.8	298.2	314.6	330.9	340.9
57.5°	197.9	203.6	210.2	221.1	230.9	243.1	254.4	266.4	281.6	293.9	300.4
60°	179.3	184.4	193.0	202.5	211.8	222.3	235.3	247.3	258.9	268.8	273.9
62.5°	161.8	167.7	175.2	184.0	194.0	204.0	215.3	225.4	235.7	244.2	247.7
65°	139.0	143.8	149.3	157.5	165.7	175.9	184.8	195.0	202.5	207.3	210.4
67.5°	118.2	121.4	125.6	131.0	139.1	148.0	156.7	164.6	170.9	174.2	176.9
70°	104.9	106.9	109.9	115.5	121.6	129.5	138.3	144.1	149.6	152.3	155.1
72.5°	91.5	94.1	96.8	101.2	106.3	112.0	118.4	125.6	128.6	131.8	133.5
75°	69.4	73.1	76.9	79.5	83.0	87.5	93.3	97.6	99.4	102.1	102.5
77.5°	52.3	53.1	55.9	59.3	62.2	65.4	69.0	73.0	73.8	75.3	76.2
80°	43.1	43.1	43.1	45.1	48.5	50.9	54.3	56.4	57.7	58.1	58.4
82.5°	34.6	34.6	34.3	34.7	35.9	37.2	40.4	42.7	43.8	43.6	42.8
85°	22.6	21.8	21.8	21.5	21.8	21.1	20.9	22.2	24.3	24.3	23.5
87.5°	11.3	11.0	11.0	10.4	10.0	9.5	8.5	8.6	8.4	9.3	8.8
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: P332410-940

CATALOG NUMBER: S123RDIW-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: P332410-940

CATALOG NUMBER: S123RDIW-S560D460U940-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8
2.5°	802.2	805.2	809.0	814.8	819.1	823.0	823.8	824.9	827.6	832.2	835.8
5°	807.4	815.3	827.9	840.2	853.5	864.4	874.7	881.9	888.7	903.0	914.6
7.5°	805.7	823.2	843.0	865.1	887.4	909.1	929.2	947.2	965.1	986.0	1009.8
10°	804.7	825.2	851.8	880.1	911.2	941.6	971.0	993.9	1020.6	1044.5	1074.9
12.5°	799.5	829.0	860.9	897.1	935.3	970.4	1009.0	1040.6	1071.0	1105.6	1140.9
15°	792.7	828.6	868.9	917.0	975.1	1017.4	1057.0	1112.1	1149.6	1187.2	1237.8
17.5°	780.3	824.1	874.5	937.0	985.5	1042.4	1102.0	1145.5	1196.1	1249.0	1294.8
20°	770.5	821.4	877.8	939.2	1001.0	1062.9	1120.6	1172.5	1224.8	1285.9	1323.5
22.5°	760.7	811.0	869.6	934.9	1001.3	1066.4	1131.8	1192.8	1251.5	1313.2	1361.2
25°	739.8	799.5	863.1	929.7	995.2	1066.9	1144.9	1212.8	1285.6	1349.1	1394.5
27.5°	718.6	773.4	836.6	904.2	977.0	1061.8	1153.4	1230.7	1303.6	1349.1	1363.3
30°	699.5	757.5	815.6	884.2	963.1	1057.7	1155.1	1243.6	1303.3	1323.1	1308.4
32.5°	680.1	732.7	790.2	860.5	944.3	1047.7	1157.3	1235.9	1271.9	1256.8	1196.9
35°	645.9	693.3	749.0	819.4	915.7	1042.1	1148.3	1201.6	1192.7	1107.2	994.5
37.5°	609.2	647.9	699.5	773.0	886.0	1019.8	1109.5	1117.3	1040.4	909.4	779.2
40°	580.2	615.1	668.1	744.9	863.1	998.0	1070.4	1038.7	919.4	773.6	664.9
42.5°	552.1	581.5	632.5	715.4	841.2	968.2	1012.2	943.0	805.5	667.5	568.8
45°	504.4	532.1	583.4	668.4	796.5	911.2	905.4	785.2	647.6	536.5	454.6
47.5°	459.2	483.4	531.5	618.3	744.0	825.8	771.5	643.6	526.8	437.8	379.3
50°	427.3	451.2	499.0	584.7	701.9	761.6	684.1	560.8	453.9	380.1	333.7
52.5°	396.6	420.0	463.8	547.2	651.0	686.8	603.5	489.2	400.1	336.4	296.5
55°	353.8	371.6	410.9	490.8	568.3	576.5	492.1	396.5	323.1	278.7	251.4
57.5°	310.2	325.5	364.3	427.9	482.3	478.0	398.1	315.4	265.9	232.9	213.1
60°	281.8	296.8	330.9	385.6	426.6	412.2	338.9	272.2	229.9	205.6	189.9
62.5°	255.3	267.0	299.0	338.9	368.4	352.1	289.6	234.5	200.9	180.5	168.0
65°	216.9	226.4	252.1	272.9	289.3	273.6	221.7	183.4	159.2	144.8	136.3
67.5°	180.4	186.5	202.7	210.2	221.8	204.6	166.7	141.1	127.2	115.2	109.2
70°	157.5	161.9	170.4	176.6	179.7	161.9	133.8	115.1	103.5	95.0	91.2
72.5°	134.5	138.4	140.1	145.2	143.6	126.9	107.6	92.7	84.4	78.6	73.7
75°	102.8	104.5	102.8	100.8	96.3	84.7	71.4	63.8	57.7	55.0	53.3
77.5°	74.9	74.4	72.1	68.8	61.3	53.9	46.8	44.2	41.6	40.1	39.6
80°	57.7	56.4	54.3	49.2	42.7	37.5	35.8	34.2	33.2	31.4	31.1
82.5°	43.0	42.2	38.7	34.4	29.9	27.5	26.0	25.4	24.3	23.5	23.5
85°	22.9	21.8	18.1	15.7	15.1	14.4	14.0	14.0	12.7	12.3	12.3
87.5°	7.7	6.2	6.1	5.4	5.6	5.4	5.8	5.5	5.4	5.8	5.4
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: P332410-940

CATALOG NUMBER: S123RDIW-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



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	797.8	797.8	797.8	797.8	797.8	797.8	797.8
2.5°	841.6	841.6	842.7	846.8	847.3	850.9	849.7
5°	924.9	931.4	933.8	944.1	950.2	952.9	947.4
7.5°	1026.8	1045.1	1053.8	1064.5	1074.0	1076.9	1069.4
10°	1101.2	1120.3	1136.3	1146.2	1155.5	1161.5	1169.5
12.5°	1173.0	1196.5	1211.7	1225.7	1235.2	1243.0	1244.3
15°	1251.1	1286.6	1313.6	1333.4	1343.3	1348.4	1346.4
17.5°	1329.8	1362.7	1382.0	1402.1	1415.9	1416.6	1417.0
20°	1374.4	1406.5	1428.7	1443.7	1459.1	1458.4	1461.8
22.5°	1404.2	1429.4	1446.4	1457.3	1462.6	1460.0	1460.7
25°	1418.1	1425.6	1422.5	1405.1	1400.7	1384.6	1387.3
27.5°	1346.2	1310.7	1274.0	1226.6	1189.4	1159.6	1161.1
30°	1248.7	1185.8	1114.1	1054.0	1000.1	985.0	952.9
32.5°	1112.3	1018.1	934.1	878.1	831.7	819.1	791.1
35°	881.2	789.6	703.2	651.3	630.8	602.2	601.8
37.5°	684.9	604.3	558.7	519.7	499.3	481.9	480.2
40°	576.2	513.4	478.8	450.8	430.7	417.7	414.6
42.5°	500.2	449.4	417.1	399.8	384.2	377.6	372.6
45°	408.5	374.3	351.8	336.1	328.9	323.8	321.0
47.5°	341.7	318.8	303.4	293.0	287.1	281.8	283.2
50°	305.3	286.6	275.3	265.4	260.9	257.2	257.5
52.5°	276.1	259.2	250.1	243.0	237.5	234.8	233.4
55°	234.3	223.7	214.5	209.4	206.3	202.5	201.5
57.5°	199.8	191.6	184.1	178.3	177.6	174.0	174.4
60°	176.9	170.0	163.9	160.9	158.5	155.4	156.4
62.5°	158.1	152.3	146.7	144.2	141.8	139.6	140.0
65°	129.5	123.9	120.6	119.2	118.2	117.2	116.1
67.5°	103.2	99.8	97.6	94.7	92.6	92.3	91.2
70°	86.8	82.3	78.6	74.8	73.7	73.4	73.7
72.5°	69.6	66.7	65.7	63.8	63.7	62.8	63.4
75°	52.3	51.3	50.6	49.2	49.2	49.2	49.2
77.5°	38.5	37.9	37.5	37.2	36.9	36.4	36.4
80°	30.1	29.7	29.1	29.1	28.7	29.1	28.7
82.5°	22.6	22.6	21.9	21.9	21.6	21.4	21.6
85°	11.6	11.2	11.9	11.2	11.6	11.0	11.6
87.5°	5.4	5.5	5.3	5.3	5.1	5.6	5.2
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



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**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)