

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

Luminaire Tested: **S123DIW-S560D460U835-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332120
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-S560D460U835-4F0-1E-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: 4231.7 lumens
Efficiency: N/A
Efficacy: 140.1 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

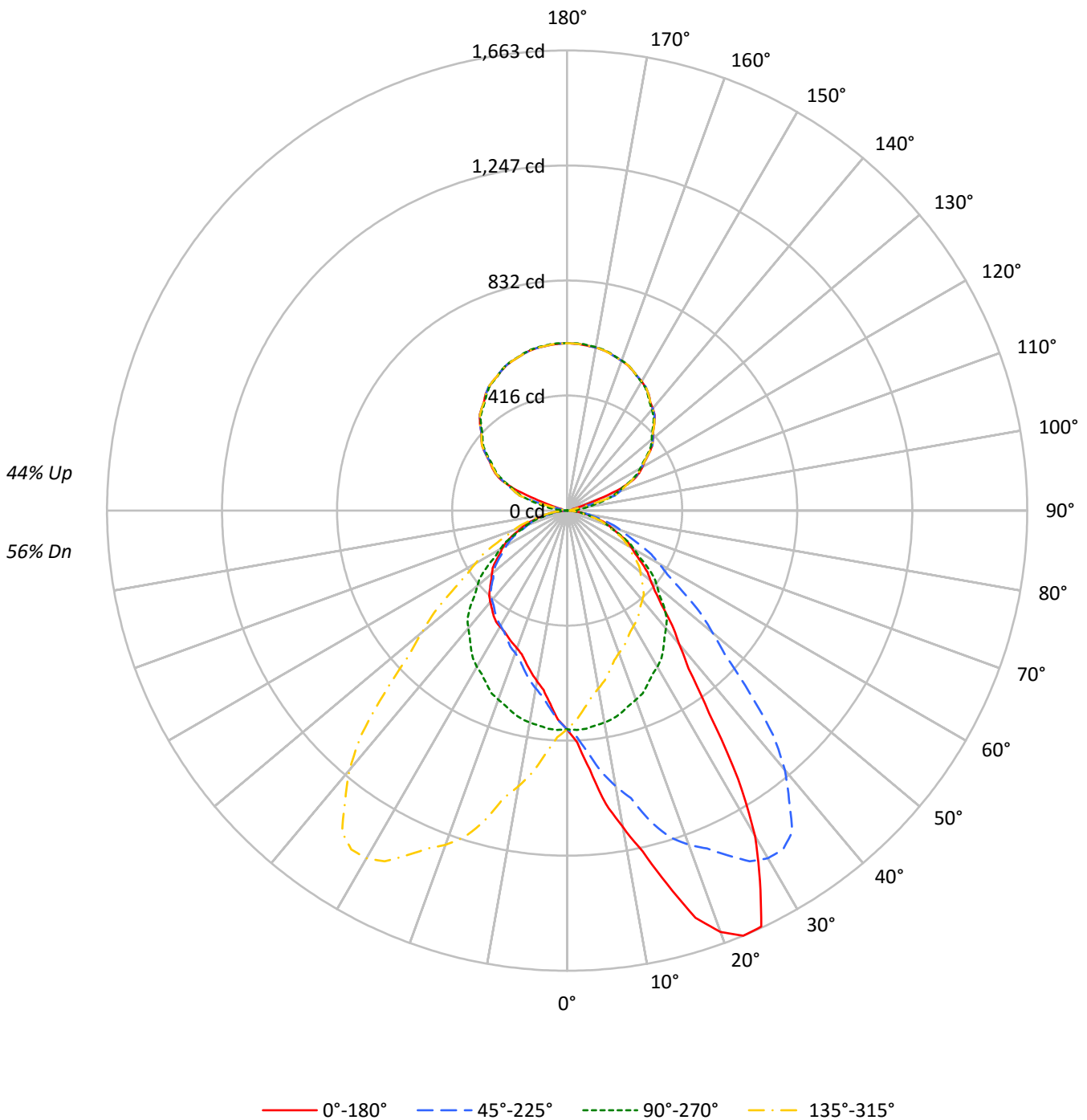
Input Watts (W): 30.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
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	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°	8509	8509	8509	8509
5°	10147	8546	7573	8546
10°	12701	8502	6840	8502
15°	15578	8433	6367	8433
20°	18558	8326	6063	8326
25°	19705	8197	5995	8197
30°	16890	8103	6027	8103
35°	11746	7967	6089	7967
40°	8847	7808	6070	7808
45°	7346	7573	5993	7573
50°	6581	7093	5940	7093
55°	6152	6576	5864	6576
60°	5772	6036	5804	6036
65°	5422	5501	5619	5501
70°	5086	4894	5350	4894
75°	4554	4284	4907	4284
80°	3986	3515	4228	3515
85°	3125	2556	2841	2556



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.9	1.8
10°-20°	249.7	5.9
20°-30°	419.1	9.9
30°-40°	474.5	11.2
40°-50°	425.5	10.1
50°-60°	343.4	8.1
60°-70°	239.3	5.7
70°-80°	125.8	3.0
80°-90°	32.5	0.8
90°-100°	22.0	0.5
100°-110°	104.8	2.5
110°-120°	251.7	5.9
120°-130°	320.5	7.6
130°-140°	342.4	8.1
140°-150°	320.2	7.6
150°-160°	258.3	6.1
160°-170°	166.7	3.9
170°-180°	57.5	1.4
0°-30°	746.6	17.6
0°-40°	1221.1	28.9
0°-60°	1990.1	47.0
0°-90°	2387.6	56.4
90°-120°	378.5	8.9
90°-150°	1361.6	32.2
90°-180°	1844.0	43.6
0°-180°	4231.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	790	790	790	790	790	
5°	939	791	701	791	939	97
15°	1398	757	571	757	1398	404
25°	1659	690	505	690	1659	728
35°	894	606	463	606	894	581
45°	483	498	394	498	483	382
55°	328	350	312	350	328	294
65°	213	216	221	216	213	212
75°	110	103	118	103	110	117
85°	25	21	23	21	25	30
90°	14	0	14	0	14	7
95°	17	27	17	27	17	14
105°	20	134	20	134	20	45
115°	264	251	264	251	264	244
125°	361	354	361	354	361	323
135°	445	441	445	441	445	343
145°	514	509	514	509	514	321
155°	559	560	559	560	559	258
165°	590	591	590	591	590	166
175°	602	605	602	605	602	57
180°	605	605	605	605	605	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	838.9	838.3	836.8	838.0	835.5	832.2	831.9	828.8	819.9	819.3	816.9
5°	939.1	936.0	935.7	935.3	929.9	922.6	908.8	907.7	889.3	880.1	869.0
7.5°	1068.9	1070.5	1064.9	1060.0	1043.6	1032.8	1018.0	999.1	976.5	953.6	938.3
10°	1162.0	1174.6	1158.9	1148.2	1138.3	1119.5	1097.7	1070.5	1043.3	1011.5	987.4
12.5°	1261.9	1268.1	1265.0	1254.8	1239.4	1210.8	1172.1	1142.2	1117.1	1064.2	1042.8
15°	1397.9	1421.3	1406.4	1371.9	1372.7	1345.5	1294.9	1239.4	1209.9	1163.5	1100.3
17.5°	1542.9	1545.8	1539.4	1510.7	1491.5	1454.2	1407.5	1354.3	1294.5	1238.5	1171.4
20°	1620.1	1617.8	1604.4	1589.4	1556.5	1527.4	1476.4	1417.1	1340.5	1285.3	1212.2
22.5°	1663.0	1659.1	1652.8	1640.3	1612.9	1581.6	1535.9	1471.0	1398.1	1322.1	1237.6
25°	1659.1	1664.1	1664.9	1661.4	1651.9	1633.1	1597.1	1545.4	1472.6	1375.0	1286.9
27.5°	1509.0	1516.0	1536.5	1554.7	1575.0	1595.6	1592.9	1567.2	1513.4	1429.0	1321.3
30°	1358.9	1343.5	1381.5	1429.3	1461.9	1519.3	1551.5	1553.4	1523.2	1450.8	1345.8
32.5°	1150.5	1167.4	1184.1	1243.0	1314.2	1378.7	1442.7	1494.3	1500.2	1452.0	1360.2
35°	893.9	915.0	945.6	976.3	1052.9	1118.7	1231.3	1329.4	1407.5	1417.8	1361.5
37.5°	720.3	730.8	750.1	780.8	830.9	909.1	996.2	1120.1	1233.3	1317.5	1321.2
40°	629.6	632.7	654.5	677.9	718.5	782.8	861.4	970.9	1106.5	1224.1	1273.1
42.5°	561.6	568.4	577.6	600.1	632.4	680.8	753.8	844.4	968.6	1103.9	1199.8
45°	482.6	490.2	496.0	510.9	533.9	566.4	617.4	700.1	794.7	934.5	1063.6
47.5°	430.3	430.9	435.2	446.5	462.1	486.6	522.6	575.7	662.6	775.9	908.5
50°	393.0	399.1	400.6	409.4	421.7	439.7	469.6	514.7	586.0	685.6	807.4
52.5°	366.6	368.4	372.7	379.1	389.8	403.8	429.7	465.1	521.0	605.9	717.9
55°	327.8	327.8	332.1	337.0	343.2	355.8	373.0	399.1	441.6	507.5	600.2
57.5°	292.0	293.9	296.9	298.4	303.6	312.0	326.4	346.2	377.9	428.6	502.3
60°	268.1	271.5	271.2	274.2	278.8	285.3	297.6	313.7	342.0	382.6	444.7
62.5°	247.3	247.0	247.0	250.6	255.2	261.4	269.4	283.3	307.4	343.4	396.2
65°	212.9	212.2	214.9	217.2	218.7	223.3	229.4	241.7	257.8	284.6	325.5
67.5°	182.5	180.2	181.7	182.5	185.1	188.7	194.4	202.0	214.8	236.3	267.2
70°	161.6	159.7	159.3	160.1	162.4	165.1	169.3	176.6	188.4	205.7	228.3
72.5°	140.2	138.9	138.8	140.5	141.6	143.3	146.3	153.0	162.4	175.3	196.4
75°	109.5	109.5	109.5	109.9	111.1	112.6	114.9	118.3	125.6	134.8	149.0
77.5°	82.1	82.0	81.6	81.5	83.2	83.9	84.4	87.6	91.7	97.9	108.2
80°	64.3	62.4	63.2	64.3	65.1	65.5	66.6	67.4	70.9	74.3	81.6
82.5°	47.8	46.2	46.3	48.1	48.3	48.6	49.8	50.9	52.2	55.3	59.2
85°	25.3	25.3	25.7	25.7	26.0	25.7	26.8	27.2	27.2	29.1	31.4
87.5°	11.9	11.2	11.5	11.8	11.4	11.7	11.9	12.1	12.3	12.6	12.6
90°	13.5	13.3	13.1	12.9	12.7	12.4	12.0	11.6	11.2	10.8	9.5
92.5°	14.9	14.8	14.7	14.6	14.4	14.1	13.4	12.8	12.1	11.5	10.5
95°	17.1	17.1	17.1	17.1	17.1	16.7	16.0	15.3	14.6	13.9	12.8
97.5°	18.5	18.4	18.3	18.2	18.1	17.7	16.9	16.1	15.3	14.5	21.7
100°	18.9	18.8	18.7	18.6	18.5	18.0	17.2	16.4	15.6	14.8	30.4
102.5°	19.2	19.0	18.9	18.7	18.5	19.7	22.1	24.6	27.1	29.6	46.6
105°	19.8	19.6	19.4	19.2	19.0	27.7	45.4	63.0	80.7	98.4	107.4
107.5°	62.1	75.4	88.7	102.0	115.4	128.5	141.5	154.4	167.4	180.3	178.9
110°	123.6	137.8	152.1	166.4	180.7	189.4	192.7	196.0	199.3	202.6	201.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	212.0	215.0	218.0	221.0	224.0	225.5	225.4	225.4	225.3	225.3	224.2
115°	264.2	263.8	263.4	263.0	262.6	261.9	260.9	259.9	258.9	257.9	257.0
117.5°	293.5	293.4	293.3	293.2	293.1	292.7	291.9	291.1	290.3	289.5	289.1
120°	313.6	313.6	313.6	313.6	313.6	313.2	312.4	311.6	310.8	310.0	309.7
122.5°	333.4	333.3	333.2	333.1	333.0	332.7	332.2	331.6	331.0	330.5	330.1
125°	361.2	361.0	360.8	360.6	360.4	360.2	360.0	359.8	359.6	359.4	359.0
127.5°	388.0	388.2	388.4	388.6	388.8	388.7	388.4	388.1	387.8	387.5	387.0
130°	405.2	405.4	405.6	405.8	406.0	405.9	405.5	405.1	404.7	404.3	404.0
132.5°	421.1	421.3	421.6	421.9	422.2	422.1	421.7	421.3	420.9	420.5	420.2
135°	445.2	445.5	445.8	446.1	446.4	446.4	446.1	445.8	445.5	445.2	444.8
137.5°	468.0	468.2	468.4	468.6	468.8	468.6	468.1	467.7	467.2	466.7	466.5
140°	481.6	481.8	482.0	482.2	482.4	482.3	481.9	481.5	481.1	480.7	480.4
142.5°	494.2	494.5	494.8	495.0	495.3	495.3	495.0	494.7	494.3	494.0	493.7
145°	513.5	513.5	513.5	513.5	513.5	513.4	513.2	513.0	512.8	512.6	512.4
147.5°	527.9	528.4	528.8	529.3	529.7	529.9	529.7	529.5	529.3	529.1	528.9
150°	538.7	539.0	539.3	539.6	539.9	539.9	539.7	539.5	539.3	539.1	538.9
152.5°	547.3	547.8	548.2	548.7	549.1	549.2	548.8	548.5	548.1	547.8	547.6
155°	559.4	559.9	560.5	561.1	561.7	561.8	561.3	560.8	560.3	559.8	559.7
157.5°	569.5	570.3	571.1	571.8	572.6	572.7	572.1	571.5	570.9	570.3	570.4
160°	576.0	576.7	577.4	578.1	578.8	578.8	578.2	577.6	577.0	576.4	576.5
162.5°	582.1	582.7	583.3	583.9	584.6	584.5	583.9	583.2	582.5	581.8	581.9
165°	589.5	590.2	590.9	591.5	592.2	592.2	591.4	590.6	589.8	589.0	589.1
167.5°	594.8	595.6	596.4	597.1	597.9	597.9	597.1	596.4	595.6	594.8	594.8
170°	598.0	598.8	599.6	600.4	601.2	601.2	600.4	599.6	598.8	598.0	598.0
172.5°	599.8	600.7	601.5	602.4	603.3	603.3	602.5	601.7	600.9	600.1	600.1
175°	602.5	603.3	604.1	604.9	605.7	605.7	605.0	604.3	603.6	602.9	602.8
177.5°	603.3	604.1	604.9	605.7	606.5	606.6	605.9	605.3	604.6	604.0	603.9
180°	604.7	604.7	604.7	604.7	604.7	604.7	604.7	604.7	604.7	604.7	604.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	815.0	812.6	810.1	805.8	802.1	796.9	795.4	793.6	788.1	783.1	779.5
5°	864.8	855.6	842.2	829.9	820.0	806.6	798.9	790.9	779.4	769.1	760.6
7.5°	916.9	898.8	878.0	855.5	834.5	814.2	797.9	783.4	767.3	752.0	740.2
10°	958.3	932.2	903.1	871.7	844.9	818.8	797.0	777.9	757.2	739.2	724.2
12.5°	1005.4	966.8	926.7	888.5	856.8	820.7	794.3	769.9	746.5	724.8	708.0
15°	1061.3	1012.3	964.8	912.3	864.0	818.8	787.4	756.8	729.6	707.4	685.9
17.5°	1112.1	1056.6	994.0	930.2	872.0	818.4	774.4	739.8	705.8	678.6	657.2
20°	1140.9	1077.7	1006.9	940.6	876.3	816.5	768.3	726.9	690.2	661.4	637.3
22.5°	1165.8	1091.8	1018.5	947.7	876.0	811.6	757.0	714.4	674.5	646.4	620.8
25°	1191.5	1103.0	1029.5	946.4	866.3	799.7	738.4	690.2	650.3	617.4	591.0
27.5°	1213.6	1102.3	1015.0	925.6	851.2	784.4	719.0	667.2	624.9	589.1	562.3
30°	1228.3	1103.8	1000.0	911.5	836.5	767.5	703.9	651.9	607.4	571.0	545.8
32.5°	1237.5	1102.9	986.2	891.9	813.2	752.2	687.7	633.8	588.1	552.4	528.0
35°	1242.8	1096.1	962.5	851.4	775.6	716.2	662.2	606.3	558.4	525.1	497.5
37.5°	1232.1	1082.0	934.9	812.3	729.3	670.9	625.4	577.8	532.0	495.3	471.5
40°	1215.2	1072.8	913.4	784.8	697.4	641.1	602.5	555.7	510.5	475.7	453.5
42.5°	1183.1	1054.1	889.9	754.1	664.3	608.0	572.4	533.4	490.6	457.9	435.7
45°	1104.6	1013.4	854.5	708.2	615.5	557.3	525.9	497.5	458.8	427.0	407.9
47.5°	995.6	952.2	803.3	659.7	564.5	508.5	475.8	453.0	424.7	399.1	380.7
50°	920.0	902.0	768.7	626.6	530.4	475.7	444.3	423.6	403.3	377.6	360.8
52.5°	832.6	843.7	728.2	592.3	495.8	442.0	412.4	396.0	377.6	356.5	341.8
55°	709.7	749.9	658.4	534.7	444.3	393.0	365.0	350.4	339.7	324.0	311.4
57.5°	594.6	645.7	582.8	475.3	393.6	349.4	322.6	306.7	299.8	291.6	281.7
60°	526.2	576.8	528.9	435.5	359.6	317.5	293.8	280.4	273.5	267.7	259.3
62.5°	465.3	516.4	476.2	395.0	326.2	287.2	266.5	253.4	248.0	245.0	237.8
65°	381.5	425.5	398.7	332.1	278.4	244.0	225.2	216.0	211.0	209.9	205.3
67.5°	310.5	344.0	324.5	275.4	233.2	203.4	187.5	179.7	175.9	175.5	172.0
70°	263.9	295.3	280.4	235.9	199.5	176.2	162.4	155.5	153.2	152.8	150.9
72.5°	227.7	249.6	237.8	200.7	172.6	151.4	141.2	134.0	131.4	132.0	130.7
75°	168.5	185.0	178.1	152.4	129.8	116.0	107.6	103.0	100.7	101.9	100.3
77.5°	121.3	131.7	125.5	107.7	93.8	83.8	77.6	74.8	72.7	72.6	71.9
80°	91.5	97.7	94.2	83.5	72.0	63.6	58.6	56.7	55.5	55.2	54.8
82.5°	65.2	70.4	66.3	59.0	51.2	46.1	43.3	40.8	39.9	40.1	39.8
85°	32.9	34.9	33.3	28.7	25.7	23.4	21.8	20.7	19.9	20.3	19.5
87.5°	13.0	13.0	11.8	10.4	9.6	8.5	8.3	7.4	7.0	7.2	7.1
90°	8.2	6.9	5.6	4.4	3.4	2.4	1.4	0.4	1.4	2.4	3.4
92.5°	9.5	8.6	7.6	7.2	7.5	7.8	8.1	8.4	8.1	7.8	7.5
95°	11.7	10.6	9.5	11.0	15.1	19.2	23.3	27.4	23.3	19.2	15.1
97.5°	28.8	36.0	43.2	47.7	49.6	51.4	53.2	55.1	53.2	51.4	49.6
100°	46.0	61.6	77.1	83.9	81.9	79.9	77.9	75.9	77.9	79.9	81.9
102.5°	63.6	80.6	97.6	105.4	104.0	102.5	101.1	99.6	101.1	102.5	104.0
105°	116.4	125.3	134.3	138.3	137.2	136.1	135.0	133.9	135.0	136.1	137.2
107.5°	177.5	176.1	174.7	173.5	172.6	171.8	170.9	170.0	170.9	171.8	172.6
110°	200.4	199.3	198.2	197.3	196.5	195.7	194.9	194.1	194.9	195.7	196.5



TEST NUMBER: P332120

CATALOG NUMBER: S123DIW-S560D460U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	223.1	222.0	220.9	220.0	219.2	218.5	217.8	217.1	217.8	218.5	219.2
115°	256.1	255.2	254.3	253.5	252.9	252.3	251.7	251.1	251.7	252.3	252.9
117.5°	288.6	288.1	287.7	287.1	286.3	285.6	284.9	284.1	284.9	285.6	286.3
120°	309.4	309.1	308.8	308.2	307.3	306.4	305.5	304.6	305.5	306.4	307.3
122.5°	329.7	329.4	329.0	328.4	327.7	326.9	326.2	325.5	326.2	326.9	327.7
125°	358.6	358.2	357.8	357.2	356.4	355.6	354.8	354.0	354.8	355.6	356.4
127.5°	386.5	386.0	385.5	384.9	384.1	383.3	382.5	381.7	382.5	383.3	384.1
130°	403.6	403.2	402.8	402.2	401.4	400.6	399.8	399.0	399.8	400.6	401.4
132.5°	419.9	419.6	419.2	418.7	417.9	417.1	416.3	415.5	416.3	417.1	417.9
135°	444.4	444.0	443.6	443.1	442.5	441.9	441.3	440.7	441.3	441.9	442.5
137.5°	466.3	466.1	465.8	465.3	464.6	463.8	463.1	462.3	463.1	463.8	464.6
140°	480.1	479.8	479.5	479.1	478.5	477.9	477.3	476.7	477.3	477.9	478.5
142.5°	493.4	493.1	492.8	492.4	491.8	491.2	490.6	490.0	490.6	491.2	491.8
145°	512.2	512.0	511.8	511.4	510.7	510.0	509.3	508.6	509.3	510.0	510.7
147.5°	528.7	528.5	528.3	527.9	527.5	527.0	526.6	526.1	526.6	527.0	527.5
150°	538.7	538.5	538.3	538.1	537.8	537.5	537.2	536.9	537.2	537.5	537.8
152.5°	547.5	547.4	547.3	547.2	547.0	546.9	546.7	546.6	546.7	546.9	547.0
155°	559.6	559.5	559.4	559.5	559.7	559.8	560.0	560.2	560.0	559.8	559.7
157.5°	570.5	570.6	570.7	570.8	570.8	570.8	570.8	570.9	570.8	570.8	570.8
160°	576.6	576.7	576.8	576.9	577.0	577.1	577.2	577.3	577.2	577.1	577.0
162.5°	582.0	582.1	582.2	582.4	582.7	582.9	583.2	583.4	583.2	582.9	582.7
165°	589.2	589.3	589.4	589.6	589.9	590.2	590.5	590.8	590.5	590.2	589.9
167.5°	594.8	594.8	594.8	595.0	595.4	595.8	596.2	596.6	596.2	595.8	595.4
170°	598.0	598.0	598.0	598.2	598.6	599.0	599.4	599.8	599.4	599.0	598.6
172.5°	600.0	599.9	599.8	600.0	600.5	601.0	601.5	601.9	601.5	601.0	600.5
175°	602.7	602.6	602.5	602.7	603.2	603.7	604.2	604.7	604.2	603.7	603.2
177.5°	603.8	603.8	603.7	603.8	604.2	604.6	605.0	605.4	605.0	604.6	604.2
180°	604.7	604.7	604.7	604.7	604.7	604.7	604.7	604.7	604.7	604.7	604.7



TEST NUMBER: P332120

CATALOG NUMBER: S123DIW-S560D460U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	777.3	775.2	772.1	767.5	763.8	758.0	758.0	758.9	758.9	758.6	758.0
5°	753.7	748.0	741.1	733.1	724.6	716.2	714.7	711.6	709.3	707.8	705.9
7.5°	728.8	718.7	708.6	697.4	687.1	678.6	672.7	667.8	664.6	661.3	658.8
10°	712.0	699.3	687.5	675.6	662.6	652.2	645.7	641.1	637.7	634.6	633.1
12.5°	692.1	677.6	664.5	653.2	639.0	628.3	622.1	620.0	615.9	609.5	606.1
15°	663.0	649.6	633.9	616.6	609.7	596.7	589.4	586.0	583.7	578.7	577.2
17.5°	638.1	620.5	602.9	590.0	577.2	566.7	562.6	558.3	555.3	551.2	550.0
20°	618.2	602.5	586.4	572.6	559.2	547.7	544.2	541.2	538.1	536.2	534.7
22.5°	597.9	582.2	568.9	556.0	541.7	534.2	530.4	527.1	524.9	523.6	522.1
25°	569.5	555.7	540.8	529.3	517.8	512.8	510.5	508.6	507.1	505.2	504.8
27.5°	544.1	529.1	517.0	506.2	498.0	493.8	491.6	490.7	491.0	491.7	492.1
30°	525.1	511.3	501.3	492.1	484.5	480.7	480.3	480.3	481.8	482.2	483.0
32.5°	507.6	496.3	486.3	477.4	471.6	469.0	470.5	470.5	471.7	472.7	474.1
35°	482.2	472.2	464.6	456.9	451.9	453.1	453.8	454.6	456.5	458.8	460.4
37.5°	457.9	449.3	441.3	435.3	433.0	435.1	436.9	438.5	440.8	442.5	444.0
40°	440.4	433.9	426.3	420.9	421.7	422.8	424.4	426.3	428.2	429.3	430.9
42.5°	424.2	417.4	411.6	407.1	408.2	409.7	410.6	411.6	413.8	415.9	416.8
45°	399.5	394.1	388.7	386.1	386.8	387.6	388.4	389.5	391.4	393.0	393.3
47.5°	371.7	367.9	364.3	361.7	362.9	362.6	363.6	366.1	366.7	367.6	369.7
50°	353.9	350.4	346.2	345.5	345.5	345.5	345.8	348.9	348.9	350.4	352.0
52.5°	334.3	332.1	329.4	328.0	327.4	327.4	329.0	330.5	331.1	333.3	334.8
55°	305.2	302.9	300.7	299.5	298.7	299.5	302.6	303.3	305.2	306.4	307.5
57.5°	275.0	273.2	271.4	270.8	270.6	271.6	273.3	275.6	276.1	279.6	281.3
60°	255.1	252.4	250.9	250.9	250.1	253.5	252.8	256.6	257.4	259.7	262.4
62.5°	234.5	230.9	230.3	230.3	231.4	232.4	233.5	235.2	237.2	240.1	242.1
65°	201.5	199.5	202.2	201.8	201.1	203.4	203.4	205.3	207.6	210.3	214.5
67.5°	170.1	169.1	169.4	169.4	170.5	171.8	172.9	174.6	177.3	180.2	182.9
70°	149.0	150.1	148.2	149.8	150.9	151.3	152.0	154.3	157.4	159.3	162.4
72.5°	128.5	128.4	128.6	129.2	130.4	131.1	131.8	134.4	137.8	139.4	141.9
75°	98.8	98.4	99.6	99.6	101.5	102.3	103.0	104.2	107.2	109.5	111.5
77.5°	72.2	72.6	72.4	73.7	73.2	73.3	75.7	76.8	77.1	81.7	82.7
80°	54.4	55.2	55.5	55.9	56.3	55.5	58.2	59.4	59.4	62.0	64.0
82.5°	39.1	39.5	40.5	40.9	41.0	41.7	42.0	42.8	43.7	44.9	47.4
85°	19.5	20.7	21.1	20.7	21.1	20.3	21.4	21.8	22.2	22.2	22.2
87.5°	7.0	7.6	7.5	8.1	8.0	8.6	8.7	8.1	8.2	9.2	8.1
90°	4.4	5.6	6.9	8.2	9.5	10.8	11.2	11.6	12.0	12.4	12.7
92.5°	7.2	7.6	8.6	9.5	10.5	11.5	12.1	12.8	13.4	14.1	14.4
95°	11.0	9.5	10.6	11.7	12.8	13.9	14.6	15.3	16.0	16.7	17.1
97.5°	47.7	43.2	36.0	28.8	21.7	14.5	15.3	16.1	16.9	17.7	18.1
100°	83.9	77.1	61.6	46.0	30.4	14.8	15.6	16.4	17.2	18.0	18.5
102.5°	105.4	97.6	80.6	63.6	46.6	29.6	27.1	24.6	22.1	19.7	18.5
105°	138.3	134.3	125.3	116.4	107.4	98.4	80.7	63.0	45.4	27.7	19.0
107.5°	173.5	174.7	176.1	177.5	178.9	180.3	167.4	154.4	141.5	128.5	115.4
110°	197.3	198.2	199.3	200.4	201.5	202.6	199.3	196.0	192.7	189.4	180.7



TEST NUMBER: P332120

CATALOG NUMBER: S123DIW-S560D460U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	220.0	220.9	222.0	223.1	224.2	225.3	225.3	225.4	225.4	225.5	224.0
115°	253.5	254.3	255.2	256.1	257.0	257.9	258.9	259.9	260.9	261.9	262.6
117.5°	287.1	287.7	288.1	288.6	289.1	289.5	290.3	291.1	291.9	292.7	293.1
120°	308.2	308.8	309.1	309.4	309.7	310.0	310.8	311.6	312.4	313.2	313.6
122.5°	328.4	329.0	329.4	329.7	330.1	330.5	331.0	331.6	332.2	332.7	333.0
125°	357.2	357.8	358.2	358.6	359.0	359.4	359.6	359.8	360.0	360.2	360.4
127.5°	384.9	385.5	386.0	386.5	387.0	387.5	387.8	388.1	388.4	388.7	388.8
130°	402.2	402.8	403.2	403.6	404.0	404.3	404.7	405.1	405.5	405.9	406.0
132.5°	418.7	419.2	419.6	419.9	420.2	420.5	420.9	421.3	421.7	422.1	422.2
135°	443.1	443.6	444.0	444.4	444.8	445.2	445.5	445.8	446.1	446.4	446.4
137.5°	465.3	465.8	466.1	466.3	466.5	466.7	467.2	467.7	468.1	468.6	468.8
140°	479.1	479.5	479.8	480.1	480.4	480.7	481.1	481.5	481.9	482.3	482.4
142.5°	492.4	492.8	493.1	493.4	493.7	494.0	494.3	494.7	495.0	495.3	495.3
145°	511.4	511.8	512.0	512.2	512.4	512.6	512.8	513.0	513.2	513.4	513.5
147.5°	527.9	528.3	528.5	528.7	528.9	529.1	529.3	529.5	529.7	529.9	529.7
150°	538.1	538.3	538.5	538.7	538.9	539.1	539.3	539.5	539.7	539.9	539.9
152.5°	547.2	547.3	547.4	547.5	547.6	547.8	548.1	548.5	548.8	549.2	549.1
155°	559.5	559.4	559.5	559.6	559.7	559.8	560.3	560.8	561.3	561.8	561.7
157.5°	570.8	570.7	570.6	570.5	570.4	570.3	570.9	571.5	572.1	572.7	572.6
160°	576.9	576.8	576.7	576.6	576.5	576.4	577.0	577.6	578.2	578.8	578.8
162.5°	582.4	582.2	582.1	582.0	581.9	581.8	582.5	583.2	583.9	584.5	584.6
165°	589.6	589.4	589.3	589.2	589.1	589.0	589.8	590.6	591.4	592.2	592.2
167.5°	595.0	594.8	594.8	594.8	594.8	594.8	595.6	596.4	597.1	597.9	597.9
170°	598.2	598.0	598.0	598.0	598.0	598.0	598.8	599.6	600.4	601.2	601.2
172.5°	600.0	599.8	599.9	600.0	600.1	600.1	600.9	601.7	602.5	603.3	603.3
175°	602.7	602.5	602.6	602.7	602.8	602.9	603.6	604.3	605.0	605.7	605.7
177.5°	603.8	603.7	603.8	603.8	603.9	604.0	604.6	605.3	605.9	606.6	606.5
180°	604.7	604.7	604.7	604.7	604.7	604.7	604.7	604.7	604.7	604.7	604.7



TEST NUMBER: P332120

CATALOG NUMBER: S123DIW-S560D460U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	755.9	755.6	757.7	756.2	757.7	755.6	755.9	758.0	758.6	758.9	758.9
5°	703.6	704.7	700.9	700.9	700.9	704.7	703.6	705.9	707.8	709.3	711.6
7.5°	657.0	655.3	655.5	653.4	655.5	655.3	657.0	658.8	661.3	664.6	667.8
10°	628.5	626.2	625.4	625.8	625.4	626.2	628.5	633.1	634.6	637.7	641.1
12.5°	604.9	604.4	599.4	599.5	599.4	604.4	604.9	606.1	609.5	615.9	620.0
15°	577.2	569.9	569.1	571.4	569.1	569.9	577.2	577.2	578.7	583.7	586.0
17.5°	549.4	545.5	545.8	544.6	545.8	545.5	549.4	550.0	551.2	555.3	558.3
20°	534.7	532.4	532.0	529.3	532.0	532.4	534.7	534.7	536.2	538.1	541.2
22.5°	521.2	520.4	520.6	517.7	520.6	520.4	521.2	522.1	523.6	524.9	527.1
25°	504.4	506.3	504.8	504.8	504.8	506.3	504.4	504.8	505.2	507.1	508.6
27.5°	493.1	493.0	492.2	492.2	492.2	493.0	493.1	492.1	491.7	491.0	490.7
30°	484.5	484.1	484.9	484.9	484.9	484.1	484.5	483.0	482.2	481.8	480.3
32.5°	475.9	476.4	476.6	476.9	476.6	476.4	475.9	474.1	472.7	471.7	470.5
35°	462.7	463.0	464.2	463.4	464.2	463.0	462.7	460.4	458.8	456.5	454.6
37.5°	444.7	446.5	446.1	446.7	446.1	446.5	444.7	444.0	442.5	440.8	438.5
40°	431.3	432.4	432.0	432.0	432.0	432.4	431.3	430.9	429.3	428.2	426.3
42.5°	417.5	418.3	417.3	416.7	417.3	418.3	417.5	416.8	415.9	413.8	411.6
45°	394.9	394.1	395.3	393.7	395.3	394.1	394.9	393.3	393.0	391.4	389.5
47.5°	369.6	370.4	370.7	371.8	370.7	370.4	369.6	369.7	367.6	366.7	366.1
50°	352.7	355.0	355.0	354.7	355.0	355.0	352.7	352.0	350.4	348.9	348.9
52.5°	336.2	337.3	338.8	338.7	338.8	337.3	336.2	334.8	333.3	331.1	330.5
55°	310.6	311.4	312.1	312.5	312.1	311.4	310.6	307.5	306.4	305.2	303.3
57.5°	284.1	283.8	285.6	286.2	285.6	283.8	284.1	281.3	279.6	276.1	275.6
60°	265.4	265.4	268.5	269.6	268.5	265.4	265.4	262.4	259.7	257.4	256.6
62.5°	245.5	246.7	249.8	248.2	249.8	246.7	245.5	242.1	240.1	237.2	235.2
65°	216.4	219.5	219.1	220.6	219.1	219.5	216.4	214.5	210.3	207.6	205.3
67.5°	186.0	187.9	190.7	190.9	190.7	187.9	186.0	182.9	180.2	177.3	174.6
70°	165.5	167.4	168.9	170.0	168.9	167.4	165.5	162.4	159.3	157.4	154.3
72.5°	145.5	146.5	150.2	148.6	150.2	146.5	145.5	141.9	139.4	137.8	134.4
75°	114.1	116.8	119.1	118.0	119.1	116.8	114.1	111.5	109.5	107.2	104.2
77.5°	84.4	87.1	88.2	87.2	88.2	87.1	84.4	82.7	81.7	77.1	76.8
80°	66.6	66.3	68.6	68.2	68.6	66.3	66.6	64.0	62.0	59.4	59.4
82.5°	48.9	48.5	49.6	49.8	49.6	48.5	48.9	47.4	44.9	43.7	42.8
85°	23.7	24.9	23.4	23.0	23.4	24.9	23.7	22.2	22.2	22.2	21.8
87.5°	8.1	8.1	7.9	7.6	7.9	8.1	8.1	8.1	9.2	8.2	8.1
90°	12.9	13.1	13.3	13.5	13.3	13.1	12.9	12.7	12.4	12.0	11.6
92.5°	14.6	14.7	14.8	14.9	14.8	14.7	14.6	14.4	14.1	13.4	12.8
95°	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	16.7	16.0	15.3
97.5°	18.2	18.3	18.4	18.5	18.4	18.3	18.2	18.1	17.7	16.9	16.1
100°	18.6	18.7	18.8	18.9	18.8	18.7	18.6	18.5	18.0	17.2	16.4
102.5°	18.7	18.9	19.0	19.2	19.0	18.9	18.7	18.5	19.7	22.1	24.6
105°	19.2	19.4	19.6	19.8	19.6	19.4	19.2	19.0	27.7	45.4	63.0
107.5°	102.0	88.7	75.4	62.1	75.4	88.7	102.0	115.4	128.5	141.5	154.4
110°	166.4	152.1	137.8	123.6	137.8	152.1	166.4	180.7	189.4	192.7	196.0



TEST NUMBER: P332120

CATALOG NUMBER: S123DIW-S560D460U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	221.0	218.0	215.0	212.0	215.0	218.0	221.0	224.0	225.5	225.4	225.4
115°	263.0	263.4	263.8	264.2	263.8	263.4	263.0	262.6	261.9	260.9	259.9
117.5°	293.2	293.3	293.4	293.5	293.4	293.3	293.2	293.1	292.7	291.9	291.1
120°	313.6	313.6	313.6	313.6	313.6	313.6	313.6	313.6	313.2	312.4	311.6
122.5°	333.1	333.2	333.3	333.4	333.3	333.2	333.1	333.0	332.7	332.2	331.6
125°	360.6	360.8	361.0	361.2	361.0	360.8	360.6	360.4	360.2	360.0	359.8
127.5°	388.6	388.4	388.2	388.0	388.2	388.4	388.6	388.8	388.7	388.4	388.1
130°	405.8	405.6	405.4	405.2	405.4	405.6	405.8	406.0	405.9	405.5	405.1
132.5°	421.9	421.6	421.3	421.1	421.3	421.6	421.9	422.2	422.1	421.7	421.3
135°	446.1	445.8	445.5	445.2	445.5	445.8	446.1	446.4	446.4	446.1	445.8
137.5°	468.6	468.4	468.2	468.0	468.2	468.4	468.6	468.8	468.6	468.1	467.7
140°	482.2	482.0	481.8	481.6	481.8	482.0	482.2	482.4	482.3	481.9	481.5
142.5°	495.0	494.8	494.5	494.2	494.5	494.8	495.0	495.3	495.3	495.0	494.7
145°	513.5	513.5	513.5	513.5	513.5	513.5	513.5	513.5	513.4	513.2	513.0
147.5°	529.3	528.8	528.4	527.9	528.4	528.8	529.3	529.7	529.9	529.7	529.5
150°	539.6	539.3	539.0	538.7	539.0	539.3	539.6	539.9	539.9	539.7	539.5
152.5°	548.7	548.2	547.8	547.3	547.8	548.2	548.7	549.1	549.2	548.8	548.5
155°	561.1	560.5	559.9	559.4	559.9	560.5	561.1	561.7	561.8	561.3	560.8
157.5°	571.8	571.1	570.3	569.5	570.3	571.1	571.8	572.6	572.7	572.1	571.5
160°	578.1	577.4	576.7	576.0	576.7	577.4	578.1	578.8	578.8	578.2	577.6
162.5°	583.9	583.3	582.7	582.1	582.7	583.3	583.9	584.6	584.5	583.9	583.2
165°	591.5	590.9	590.2	589.5	590.2	590.9	591.5	592.2	592.2	591.4	590.6
167.5°	597.1	596.4	595.6	594.8	595.6	596.4	597.1	597.9	597.9	597.1	596.4
170°	600.4	599.6	598.8	598.0	598.8	599.6	600.4	601.2	601.2	600.4	599.6
172.5°	602.4	601.5	600.7	599.8	600.7	601.5	602.4	603.3	603.3	602.5	601.7
175°	604.9	604.1	603.3	602.5	603.3	604.1	604.9	605.7	605.7	605.0	604.3
177.5°	605.7	604.9	604.1	603.3	604.1	604.9	605.7	606.5	606.6	605.9	605.3
180°	604.7	604.7	604.7	604.7	604.7	604.7	604.7	604.7	604.7	604.7	604.7



TEST NUMBER: P332120

CATALOG NUMBER: S123DIW-S560D460U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	758.0	758.0	763.8	767.5	772.1	775.2	777.3	779.5	783.1	788.1	793.6
5°	714.7	716.2	724.6	733.1	741.1	748.0	753.7	760.6	769.1	779.4	790.9
7.5°	672.7	678.6	687.1	697.4	708.6	718.7	728.8	740.2	752.0	767.3	783.4
10°	645.7	652.2	662.6	675.6	687.5	699.3	712.0	724.2	739.2	757.2	777.9
12.5°	622.1	628.3	639.0	653.2	664.5	677.6	692.1	708.0	724.8	746.5	769.9
15°	589.4	596.7	609.7	616.6	633.9	649.6	663.0	685.9	707.4	729.6	756.8
17.5°	562.6	566.7	577.2	590.0	602.9	620.5	638.1	657.2	678.6	705.8	739.8
20°	544.2	547.7	559.2	572.6	586.4	602.5	618.2	637.3	661.4	690.2	726.9
22.5°	530.4	534.2	541.7	556.0	568.9	582.2	597.9	620.8	646.4	674.5	714.4
25°	510.5	512.8	517.8	529.3	540.8	555.7	569.5	591.0	617.4	650.3	690.2
27.5°	491.6	493.8	498.0	506.2	517.0	529.1	544.1	562.3	589.1	624.9	667.2
30°	480.3	480.7	484.5	492.1	501.3	511.3	525.1	545.8	571.0	607.4	651.9
32.5°	470.5	469.0	471.6	477.4	486.3	496.3	507.6	528.0	552.4	588.1	633.8
35°	453.8	453.1	451.9	456.9	464.6	472.2	482.2	497.5	525.1	558.4	606.3
37.5°	436.9	435.1	433.0	435.3	441.3	449.3	457.9	471.5	495.3	532.0	577.8
40°	424.4	422.8	421.7	420.9	426.3	433.9	440.4	453.5	475.7	510.5	555.7
42.5°	410.6	409.7	408.2	407.1	411.6	417.4	424.2	435.7	457.9	490.6	533.4
45°	388.4	387.6	386.8	386.1	388.7	394.1	399.5	407.9	427.0	458.8	497.5
47.5°	363.6	362.6	362.9	361.7	364.3	367.9	371.7	380.7	399.1	424.7	453.0
50°	345.8	345.5	345.5	345.5	346.2	350.4	353.9	360.8	377.6	403.3	423.6
52.5°	329.0	327.4	327.4	328.0	329.4	332.1	334.3	341.8	356.5	377.6	396.0
55°	302.6	299.5	298.7	299.5	300.7	302.9	305.2	311.4	324.0	339.7	350.4
57.5°	273.3	271.6	270.6	270.8	271.4	273.2	275.0	281.7	291.6	299.8	306.7
60°	252.8	253.5	250.1	250.9	250.9	252.4	255.1	259.3	267.7	273.5	280.4
62.5°	233.5	232.4	231.4	230.3	230.3	230.9	234.5	237.8	245.0	248.0	253.4
65°	203.4	203.4	201.1	201.8	202.2	199.5	201.5	205.3	209.9	211.0	216.0
67.5°	172.9	171.8	170.5	169.4	169.4	169.1	170.1	172.0	175.5	175.9	179.7
70°	152.0	151.3	150.9	149.8	148.2	150.1	149.0	150.9	152.8	153.2	155.5
72.5°	131.8	131.1	130.4	129.2	128.6	128.4	128.5	130.7	132.0	131.4	134.0
75°	103.0	102.3	101.5	99.6	99.6	98.4	98.8	100.3	101.9	100.7	103.0
77.5°	75.7	73.3	73.2	73.7	72.4	72.6	72.2	71.9	72.6	72.7	74.8
80°	58.2	55.5	56.3	55.9	55.5	55.2	54.4	54.8	55.2	55.5	56.7
82.5°	42.0	41.7	41.0	40.9	40.5	39.5	39.1	39.8	40.1	39.9	40.8
85°	21.4	20.3	21.1	20.7	21.1	20.7	19.5	19.5	20.3	19.9	20.7
87.5°	8.7	8.6	8.0	8.1	7.5	7.6	7.0	7.1	7.2	7.0	7.4
90°	11.2	10.8	9.5	8.2	6.9	5.6	4.4	3.4	2.4	1.4	0.4
92.5°	12.1	11.5	10.5	9.5	8.6	7.6	7.2	7.5	7.8	8.1	8.4
95°	14.6	13.9	12.8	11.7	10.6	9.5	11.0	15.1	19.2	23.3	27.4
97.5°	15.3	14.5	21.7	28.8	36.0	43.2	47.7	49.6	51.4	53.2	55.1
100°	15.6	14.8	30.4	46.0	61.6	77.1	83.9	81.9	79.9	77.9	75.9
102.5°	27.1	29.6	46.6	63.6	80.6	97.6	105.4	104.0	102.5	101.1	99.6
105°	80.7	98.4	107.4	116.4	125.3	134.3	138.3	137.2	136.1	135.0	133.9
107.5°	167.4	180.3	178.9	177.5	176.1	174.7	173.5	172.6	171.8	170.9	170.0
110°	199.3	202.6	201.5	200.4	199.3	198.2	197.3	196.5	195.7	194.9	194.1



TEST NUMBER: P332120

CATALOG NUMBER: S123DIW-S560D460U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	225.3	225.3	224.2	223.1	222.0	220.9	220.0	219.2	218.5	217.8	217.1
115°	258.9	257.9	257.0	256.1	255.2	254.3	253.5	252.9	252.3	251.7	251.1
117.5°	290.3	289.5	289.1	288.6	288.1	287.7	287.1	286.3	285.6	284.9	284.1
120°	310.8	310.0	309.7	309.4	309.1	308.8	308.2	307.3	306.4	305.5	304.6
122.5°	331.0	330.5	330.1	329.7	329.4	329.0	328.4	327.7	326.9	326.2	325.5
125°	359.6	359.4	359.0	358.6	358.2	357.8	357.2	356.4	355.6	354.8	354.0
127.5°	387.8	387.5	387.0	386.5	386.0	385.5	384.9	384.1	383.3	382.5	381.7
130°	404.7	404.3	404.0	403.6	403.2	402.8	402.2	401.4	400.6	399.8	399.0
132.5°	420.9	420.5	420.2	419.9	419.6	419.2	418.7	417.9	417.1	416.3	415.5
135°	445.5	445.2	444.8	444.4	444.0	443.6	443.1	442.5	441.9	441.3	440.7
137.5°	467.2	466.7	466.5	466.3	466.1	465.8	465.3	464.6	463.8	463.1	462.3
140°	481.1	480.7	480.4	480.1	479.8	479.5	479.1	478.5	477.9	477.3	476.7
142.5°	494.3	494.0	493.7	493.4	493.1	492.8	492.4	491.8	491.2	490.6	490.0
145°	512.8	512.6	512.4	512.2	512.0	511.8	511.4	510.7	510.0	509.3	508.6
147.5°	529.3	529.1	528.9	528.7	528.5	528.3	527.9	527.5	527.0	526.6	526.1
150°	539.3	539.1	538.9	538.7	538.5	538.3	538.1	537.8	537.5	537.2	536.9
152.5°	548.1	547.8	547.6	547.5	547.4	547.3	547.2	547.0	546.9	546.7	546.6
155°	560.3	559.8	559.7	559.6	559.5	559.4	559.5	559.7	559.8	560.0	560.2
157.5°	570.9	570.3	570.4	570.5	570.6	570.7	570.8	570.8	570.8	570.8	570.9
160°	577.0	576.4	576.5	576.6	576.7	576.8	576.9	577.0	577.1	577.2	577.3
162.5°	582.5	581.8	581.9	582.0	582.1	582.2	582.4	582.7	582.9	583.2	583.4
165°	589.8	589.0	589.1	589.2	589.3	589.4	589.6	589.9	590.2	590.5	590.8
167.5°	595.6	594.8	594.8	594.8	594.8	594.8	595.0	595.4	595.8	596.2	596.6
170°	598.8	598.0	598.0	598.0	598.0	598.0	598.2	598.6	599.0	599.4	599.8
172.5°	600.9	600.1	600.1	600.0	599.9	599.8	600.0	600.5	601.0	601.5	601.9
175°	603.6	602.9	602.8	602.7	602.6	602.5	602.7	603.2	603.7	604.2	604.7
177.5°	604.6	604.0	603.9	603.8	603.8	603.7	603.8	604.2	604.6	605.0	605.4
180°	604.7	604.7	604.7	604.7	604.7	604.7	604.7	604.7	604.7	604.7	604.7



TEST NUMBER: P332120

CATALOG NUMBER: S123DIW-S560D460U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	795.4	796.9	802.1	805.8	810.1	812.6	815.0	816.9	819.3	819.9	828.8
5°	798.9	806.6	820.0	829.9	842.2	855.6	864.8	869.0	880.1	889.3	907.7
7.5°	797.9	814.2	834.5	855.5	878.0	898.8	916.9	938.3	953.6	976.5	999.1
10°	797.0	818.8	844.9	871.7	903.1	932.2	958.3	987.4	1011.5	1043.3	1070.5
12.5°	794.3	820.7	856.8	888.5	926.7	966.8	1005.4	1042.8	1064.2	1117.1	1142.2
15°	787.4	818.8	864.0	912.3	964.8	1012.3	1061.3	1100.3	1163.5	1209.9	1239.4
17.5°	774.4	818.4	872.0	930.2	994.0	1056.6	1112.1	1171.4	1238.5	1294.5	1354.3
20°	768.3	816.5	876.3	940.6	1006.9	1077.7	1140.9	1212.2	1285.3	1340.5	1417.1
22.5°	757.0	811.6	876.0	947.7	1018.5	1091.8	1165.8	1237.6	1322.1	1398.1	1471.0
25°	738.4	799.7	866.3	946.4	1029.5	1103.0	1191.5	1286.9	1375.0	1472.6	1545.4
27.5°	719.0	784.4	851.2	925.6	1015.0	1102.3	1213.6	1321.3	1429.0	1513.4	1567.2
30°	703.9	767.5	836.5	911.5	1000.0	1103.8	1228.3	1345.8	1450.8	1523.2	1553.4
32.5°	687.7	752.2	813.2	891.9	986.2	1102.9	1237.5	1360.2	1452.0	1500.2	1494.3
35°	662.2	716.2	775.6	851.4	962.5	1096.1	1242.8	1361.5	1417.8	1407.5	1329.4
37.5°	625.4	670.9	729.3	812.3	934.9	1082.0	1232.1	1321.2	1317.5	1233.3	1120.1
40°	602.5	641.1	697.4	784.8	913.4	1072.8	1215.2	1273.1	1224.1	1106.5	970.9
42.5°	572.4	608.0	664.3	754.1	889.9	1054.1	1183.1	1199.8	1103.9	968.6	844.4
45°	525.9	557.3	615.5	708.2	854.5	1013.4	1104.6	1063.6	934.5	794.7	700.1
47.5°	475.8	508.5	564.5	659.7	803.3	952.2	995.6	908.5	775.9	662.6	575.7
50°	444.3	475.7	530.4	626.6	768.7	902.0	920.0	807.4	685.6	586.0	514.7
52.5°	412.4	442.0	495.8	592.3	728.2	843.7	832.6	717.9	605.9	521.0	465.1
55°	365.0	393.0	444.3	534.7	658.4	749.9	709.7	600.2	507.5	441.6	399.1
57.5°	322.6	349.4	393.6	475.3	582.8	645.7	594.6	502.3	428.6	377.9	346.2
60°	293.8	317.5	359.6	435.5	528.9	576.8	526.2	444.7	382.6	342.0	313.7
62.5°	266.5	287.2	326.2	395.0	476.2	516.4	465.3	396.2	343.4	307.4	283.3
65°	225.2	244.0	278.4	332.1	398.7	425.5	381.5	325.5	284.6	257.8	241.7
67.5°	187.5	203.4	233.2	275.4	324.5	344.0	310.5	267.2	236.3	214.8	202.0
70°	162.4	176.2	199.5	235.9	280.4	295.3	263.9	228.3	205.7	188.4	176.6
72.5°	141.2	151.4	172.6	200.7	237.8	249.6	227.7	196.4	175.3	162.4	153.0
75°	107.6	116.0	129.8	152.4	178.1	185.0	168.5	149.0	134.8	125.6	118.3
77.5°	77.6	83.8	93.8	107.7	125.5	131.7	121.3	108.2	97.9	91.7	87.6
80°	58.6	63.6	72.0	83.5	94.2	97.7	91.5	81.6	74.3	70.9	67.4
82.5°	43.3	46.1	51.2	59.0	66.3	70.4	65.2	59.2	55.3	52.2	50.9
85°	21.8	23.4	25.7	28.7	33.3	34.9	32.9	31.4	29.1	27.2	27.2
87.5°	8.3	8.5	9.6	10.4	11.8	13.0	13.0	12.6	12.6	12.3	12.1
90°	1.4	2.4	3.4	4.4	5.6	6.9	8.2	9.5	10.8	11.2	11.6
92.5°	8.1	7.8	7.5	7.2	7.6	8.6	9.5	10.5	11.5	12.1	12.8
95°	23.3	19.2	15.1	11.0	9.5	10.6	11.7	12.8	13.9	14.6	15.3
97.5°	53.2	51.4	49.6	47.7	43.2	36.0	28.8	21.7	14.5	15.3	16.1
100°	77.9	79.9	81.9	83.9	77.1	61.6	46.0	30.4	14.8	15.6	16.4
102.5°	101.1	102.5	104.0	105.4	97.6	80.6	63.6	46.6	29.6	27.1	24.6
105°	135.0	136.1	137.2	138.3	134.3	125.3	116.4	107.4	98.4	80.7	63.0
107.5°	170.9	171.8	172.6	173.5	174.7	176.1	177.5	178.9	180.3	167.4	154.4
110°	194.9	195.7	196.5	197.3	198.2	199.3	200.4	201.5	202.6	199.3	196.0



TEST NUMBER: P332120

CATALOG NUMBER: S123DIW-S560D460U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	217.8	218.5	219.2	220.0	220.9	222.0	223.1	224.2	225.3	225.3	225.4
115°	251.7	252.3	252.9	253.5	254.3	255.2	256.1	257.0	257.9	258.9	259.9
117.5°	284.9	285.6	286.3	287.1	287.7	288.1	288.6	289.1	289.5	290.3	291.1
120°	305.5	306.4	307.3	308.2	308.8	309.1	309.4	309.7	310.0	310.8	311.6
122.5°	326.2	326.9	327.7	328.4	329.0	329.4	329.7	330.1	330.5	331.0	331.6
125°	354.8	355.6	356.4	357.2	357.8	358.2	358.6	359.0	359.4	359.6	359.8
127.5°	382.5	383.3	384.1	384.9	385.5	386.0	386.5	387.0	387.5	387.8	388.1
130°	399.8	400.6	401.4	402.2	402.8	403.2	403.6	404.0	404.3	404.7	405.1
132.5°	416.3	417.1	417.9	418.7	419.2	419.6	419.9	420.2	420.5	420.9	421.3
135°	441.3	441.9	442.5	443.1	443.6	444.0	444.4	444.8	445.2	445.5	445.8
137.5°	463.1	463.8	464.6	465.3	465.8	466.1	466.3	466.5	466.7	467.2	467.7
140°	477.3	477.9	478.5	479.1	479.5	479.8	480.1	480.4	480.7	481.1	481.5
142.5°	490.6	491.2	491.8	492.4	492.8	493.1	493.4	493.7	494.0	494.3	494.7
145°	509.3	510.0	510.7	511.4	511.8	512.0	512.2	512.4	512.6	512.8	513.0
147.5°	526.6	527.0	527.5	527.9	528.3	528.5	528.7	528.9	529.1	529.3	529.5
150°	537.2	537.5	537.8	538.1	538.3	538.5	538.7	538.9	539.1	539.3	539.5
152.5°	546.7	546.9	547.0	547.2	547.3	547.4	547.5	547.6	547.8	548.1	548.5
155°	560.0	559.8	559.7	559.5	559.4	559.5	559.6	559.7	559.8	560.3	560.8
157.5°	570.8	570.8	570.8	570.8	570.7	570.6	570.5	570.4	570.3	570.9	571.5
160°	577.2	577.1	577.0	576.9	576.8	576.7	576.6	576.5	576.4	577.0	577.6
162.5°	583.2	582.9	582.7	582.4	582.2	582.1	582.0	581.9	581.8	582.5	583.2
165°	590.5	590.2	589.9	589.6	589.4	589.3	589.2	589.1	589.0	589.8	590.6
167.5°	596.2	595.8	595.4	595.0	594.8	594.8	594.8	594.8	594.8	595.6	596.4
170°	599.4	599.0	598.6	598.2	598.0	598.0	598.0	598.0	598.0	598.8	599.6
172.5°	601.5	601.0	600.5	600.0	599.8	599.9	600.0	600.1	600.1	600.9	601.7
175°	604.2	603.7	603.2	602.7	602.5	602.6	602.7	602.8	602.9	603.6	604.3
177.5°	605.0	604.6	604.2	603.8	603.7	603.8	603.8	603.9	604.0	604.6	605.3
180°	604.7	604.7	604.7	604.7	604.7	604.7	604.7	604.7	604.7	604.7	604.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	790.5	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	831.9	832.2	835.5	838.0	836.8	838.3	838.9
5°	908.8	922.6	929.9	935.3	935.7	936.0	939.1
7.5°	1018.0	1032.8	1043.6	1060.0	1064.9	1070.5	1068.9
10°	1097.7	1119.5	1138.3	1148.2	1158.9	1174.6	1162.0
12.5°	1172.1	1210.8	1239.4	1254.8	1265.0	1268.1	1261.9
15°	1294.9	1345.5	1372.7	1371.9	1406.4	1421.3	1397.9
17.5°	1407.5	1454.2	1491.5	1510.7	1539.4	1545.8	1542.9
20°	1476.4	1527.4	1556.5	1589.4	1604.4	1617.8	1620.1
22.5°	1535.9	1581.6	1612.9	1640.3	1652.8	1659.1	1663.0
25°	1597.1	1633.1	1651.9	1661.4	1664.9	1664.1	1659.1
27.5°	1592.9	1595.6	1575.0	1554.7	1536.5	1516.0	1509.0
30°	1551.5	1519.3	1461.9	1429.3	1381.5	1343.5	1358.9
32.5°	1442.7	1378.7	1314.2	1243.0	1184.1	1167.4	1150.5
35°	1231.3	1118.7	1052.9	976.3	945.6	915.0	893.9
37.5°	996.2	909.1	830.9	780.8	750.1	730.8	720.3
40°	861.4	782.8	718.5	677.9	654.5	632.7	629.6
42.5°	753.8	680.8	632.4	600.1	577.6	568.4	561.6
45°	617.4	566.4	533.9	510.9	496.0	490.2	482.6
47.5°	522.6	486.6	462.1	446.5	435.2	430.9	430.3
50°	469.6	439.7	421.7	409.4	400.6	399.1	393.0
52.5°	429.7	403.8	389.8	379.1	372.7	368.4	366.6
55°	373.0	355.8	343.2	337.0	332.1	327.8	327.8
57.5°	326.4	312.0	303.6	298.4	296.9	293.9	292.0
60°	297.6	285.3	278.8	274.2	271.2	271.5	268.1
62.5°	269.4	261.4	255.2	250.6	247.0	247.0	247.3
65°	229.4	223.3	218.7	217.2	214.9	212.2	212.9
67.5°	194.4	188.7	185.1	182.5	181.7	180.2	182.5
70°	169.3	165.1	162.4	160.1	159.3	159.7	161.6
72.5°	146.3	143.3	141.6	140.5	138.8	138.9	140.2
75°	114.9	112.6	111.1	109.9	109.5	109.5	109.5
77.5°	84.4	83.9	83.2	81.5	81.6	82.0	82.1
80°	66.6	65.5	65.1	64.3	63.2	62.4	64.3
82.5°	49.8	48.6	48.3	48.1	46.3	46.2	47.8
85°	26.8	25.7	26.0	25.7	25.7	25.3	25.3
87.5°	11.9	11.7	11.4	11.8	11.5	11.2	11.9
90°	12.0	12.4	12.7	12.9	13.1	13.3	13.5
92.5°	13.4	14.1	14.4	14.6	14.7	14.8	14.9
95°	16.0	16.7	17.1	17.1	17.1	17.1	17.1
97.5°	16.9	17.7	18.1	18.2	18.3	18.4	18.5
100°	17.2	18.0	18.5	18.6	18.7	18.8	18.9
102.5°	22.1	19.7	18.5	18.7	18.9	19.0	19.2
105°	45.4	27.7	19.0	19.2	19.4	19.6	19.8
107.5°	141.5	128.5	115.4	102.0	88.7	75.4	62.1
110°	192.7	189.4	180.7	166.4	152.1	137.8	123.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	225.4	225.5	224.0	221.0	218.0	215.0	212.0
115°	260.9	261.9	262.6	263.0	263.4	263.8	264.2
117.5°	291.9	292.7	293.1	293.2	293.3	293.4	293.5
120°	312.4	313.2	313.6	313.6	313.6	313.6	313.6
122.5°	332.2	332.7	333.0	333.1	333.2	333.3	333.4
125°	360.0	360.2	360.4	360.6	360.8	361.0	361.2
127.5°	388.4	388.7	388.8	388.6	388.4	388.2	388.0
130°	405.5	405.9	406.0	405.8	405.6	405.4	405.2
132.5°	421.7	422.1	422.2	421.9	421.6	421.3	421.1
135°	446.1	446.4	446.4	446.1	445.8	445.5	445.2
137.5°	468.1	468.6	468.8	468.6	468.4	468.2	468.0
140°	481.9	482.3	482.4	482.2	482.0	481.8	481.6
142.5°	495.0	495.3	495.3	495.0	494.8	494.5	494.2
145°	513.2	513.4	513.5	513.5	513.5	513.5	513.5
147.5°	529.7	529.9	529.7	529.3	528.8	528.4	527.9
150°	539.7	539.9	539.9	539.6	539.3	539.0	538.7
152.5°	548.8	549.2	549.1	548.7	548.2	547.8	547.3
155°	561.3	561.8	561.7	561.1	560.5	559.9	559.4
157.5°	572.1	572.7	572.6	571.8	571.1	570.3	569.5
160°	578.2	578.8	578.8	578.1	577.4	576.7	576.0
162.5°	583.9	584.5	584.6	583.9	583.3	582.7	582.1
165°	591.4	592.2	592.2	591.5	590.9	590.2	589.5
167.5°	597.1	597.9	597.9	597.1	596.4	595.6	594.8
170°	600.4	601.2	601.2	600.4	599.6	598.8	598.0
172.5°	602.5	603.3	603.3	602.4	601.5	600.7	599.8
175°	605.0	605.7	605.7	604.9	604.1	603.3	602.5
177.5°	605.9	606.6	606.5	605.7	604.9	604.1	603.3
180°	604.7	604.7	604.7	604.7	604.7	604.7	604.7

(END OF REPORT)