

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: P332120-935

Luminaire Tested: **S123DIW-S560D460U935-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332120-935
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-S560D460U935-4F0-1E-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: 3643.5 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: General Diffuse

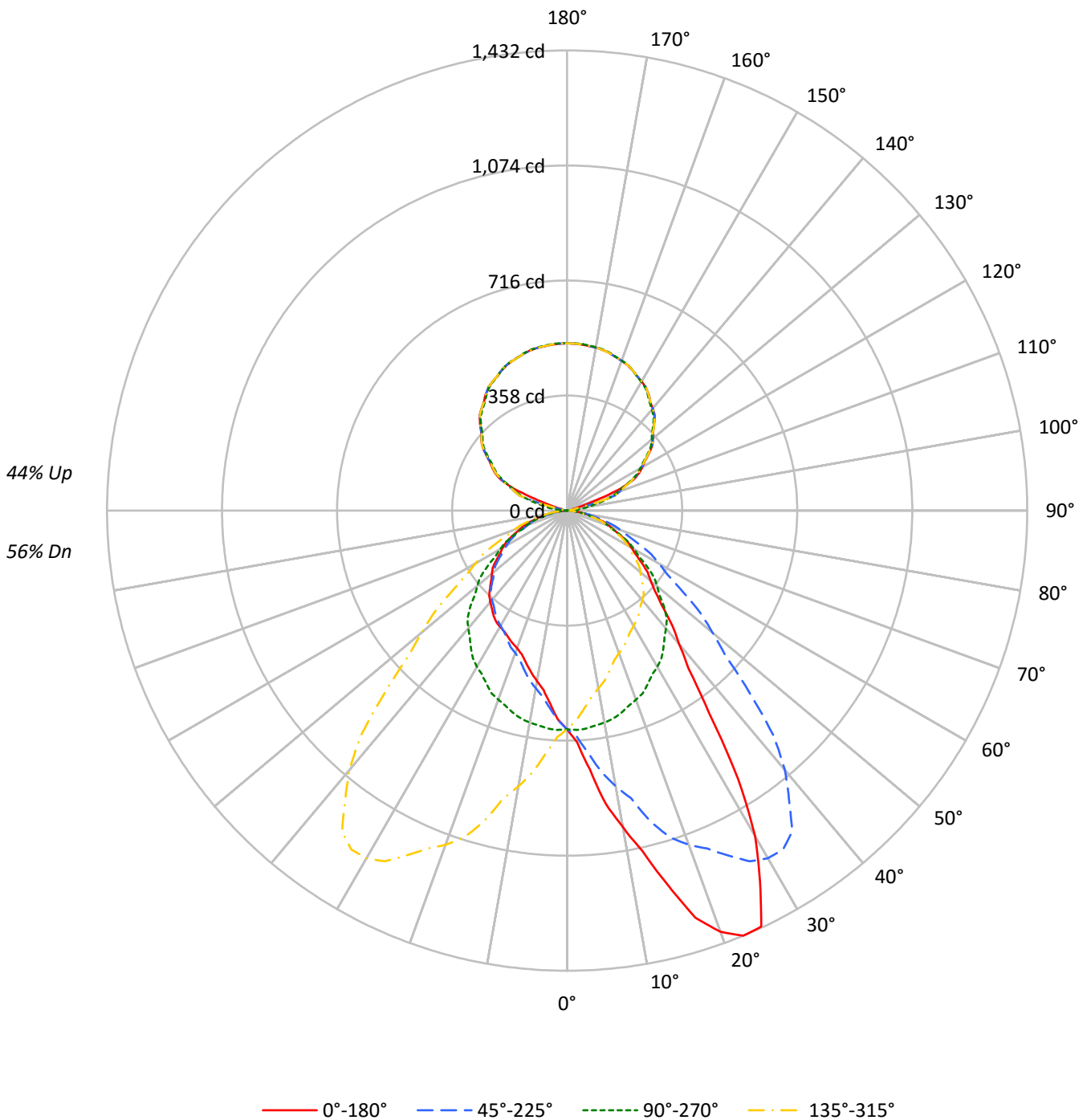
Input Watts (W): 30.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7326	7326	7326	7326
5°	8737	7358	6521	7358
10°	10935	7321	5889	7321
15°	13412	7261	5483	7261
20°	15978	7170	5220	7170
25°	16966	7058	5162	7058
30°	14542	6976	5189	6976
35°	10113	6859	5243	6859
40°	7617	6724	5227	6724
45°	6325	6520	5160	6520
50°	5667	6107	5114	6107
55°	5296	5662	5050	5662
60°	4969	5197	4997	5197
65°	4669	4737	4837	4737
70°	4378	4214	4607	4214
75°	3922	3689	4225	3689
80°	3434	3025	3639	3025
85°	2692	2198	2445	2198



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.0	1.8
10°-20°	215.0	5.9
20°-30°	360.8	9.9
30°-40°	408.6	11.2
40°-50°	366.4	10.1
50°-60°	295.7	8.1
60°-70°	206.0	5.7
70°-80°	108.3	3.0
80°-90°	27.9	0.8
90°-100°	18.9	0.5
100°-110°	90.2	2.5
110°-120°	216.7	5.9
120°-130°	276.0	7.6
130°-140°	294.8	8.1
140°-150°	275.7	7.6
150°-160°	222.4	6.1
160°-170°	143.5	3.9
170°-180°	49.5	1.4
0°-30°	642.9	17.6
0°-40°	1051.4	28.9
0°-60°	1713.5	47.0
0°-90°	2055.7	56.4
90°-120°	325.9	8.9
90°-150°	1172.4	32.2
90°-180°	1588.0	43.6
0°-180°	3643.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	681	681	681	681	681	
5°	809	681	604	681	809	84
15°	1204	652	492	652	1204	348
25°	1428	594	435	594	1428	626
35°	770	522	399	522	770	500
45°	416	428	339	428	416	329
55°	282	302	269	302	282	253
65°	183	186	190	186	183	183
75°	94	89	102	89	94	101
85°	22	18	20	18	22	26
90°	12	0	12	0	12	6
95°	15	24	15	24	15	12
105°	17	115	17	115	17	39
115°	228	216	228	216	228	210
125°	311	305	311	305	311	278
135°	383	379	383	379	383	296
145°	442	438	442	438	442	276
155°	482	482	482	482	482	222
165°	508	509	508	509	508	143
175°	519	521	519	521	519	49
180°	521	521	521	521	521	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6
2.5°	722.3	721.8	720.5	721.5	719.4	716.5	716.3	713.6	705.9	705.4	703.4
5°	808.6	805.9	805.6	805.3	800.6	794.4	782.5	781.5	765.7	757.8	748.2
7.5°	920.3	921.7	916.9	912.7	898.5	889.2	876.5	860.2	840.8	821.0	807.9
10°	1000.5	1011.3	997.8	988.6	980.1	963.9	945.1	921.7	898.3	870.9	850.2
12.5°	1086.5	1091.8	1089.2	1080.4	1067.1	1042.5	1009.2	983.4	961.8	916.3	897.9
15°	1203.6	1223.7	1210.9	1181.2	1181.9	1158.5	1114.9	1067.1	1041.7	1001.8	947.4
17.5°	1328.4	1330.9	1325.4	1300.7	1284.2	1252.1	1211.9	1166.1	1114.6	1066.3	1008.6
20°	1394.9	1392.9	1381.4	1368.5	1340.1	1315.1	1271.2	1220.1	1154.2	1106.6	1043.7
22.5°	1431.8	1428.5	1423.1	1412.3	1388.7	1361.8	1322.4	1266.5	1203.8	1138.3	1065.6
25°	1428.5	1432.8	1433.5	1430.5	1422.3	1406.1	1375.1	1330.6	1267.9	1183.9	1108.0
27.5°	1299.2	1305.3	1322.9	1338.6	1356.1	1373.8	1371.5	1349.4	1303.0	1230.4	1137.6
30°	1170.0	1156.8	1189.5	1230.6	1258.7	1308.1	1335.8	1337.5	1311.5	1249.1	1158.7
32.5°	990.6	1005.1	1019.5	1070.2	1131.5	1187.1	1242.2	1286.6	1291.7	1250.2	1171.1
35°	769.6	787.8	814.2	840.6	906.5	963.2	1060.1	1144.6	1211.9	1220.7	1172.3
37.5°	620.2	629.2	645.8	672.3	715.4	782.7	857.7	964.4	1061.9	1134.4	1137.6
40°	542.1	544.8	563.5	583.7	618.6	674.0	741.7	835.9	952.7	1054.0	1096.1
42.5°	483.5	489.4	497.3	516.7	544.5	586.2	649.0	727.0	834.0	950.5	1033.0
45°	415.5	422.1	427.1	439.9	459.7	487.7	531.6	602.8	684.2	804.6	915.8
47.5°	370.5	371.0	374.7	384.4	397.9	419.0	450.0	495.7	570.5	668.0	782.2
50°	338.4	343.6	344.9	352.5	363.1	378.6	404.3	443.2	504.5	590.3	695.2
52.5°	315.6	317.2	320.9	326.4	335.6	347.7	370.0	400.5	448.6	521.7	618.1
55°	282.2	282.2	285.9	290.2	295.5	306.3	321.2	343.6	380.2	437.0	516.8
57.5°	251.4	253.0	255.6	256.9	261.4	268.6	281.0	298.1	325.4	369.0	432.5
60°	230.8	233.8	233.5	236.1	240.0	245.6	256.2	270.1	294.5	329.4	382.9
62.5°	212.9	212.7	212.7	215.8	219.7	225.1	232.0	243.9	264.7	295.7	341.1
65°	183.3	182.7	185.0	187.0	188.3	192.3	197.5	208.1	222.0	245.0	280.3
67.5°	157.1	155.2	156.4	157.1	159.4	162.5	167.4	173.9	184.9	203.5	230.1
70°	139.1	137.5	137.2	137.8	139.8	142.2	145.8	152.1	162.2	177.1	196.6
72.5°	120.7	119.6	119.5	121.0	121.9	123.4	126.0	131.7	139.8	150.9	169.1
75°	94.3	94.3	94.3	94.6	95.7	96.9	98.9	101.9	108.1	116.1	128.3
77.5°	70.7	70.6	70.3	70.2	71.6	72.2	72.7	75.4	79.0	84.3	93.2
80°	55.4	53.7	54.4	55.4	56.1	56.4	57.3	58.0	61.0	64.0	70.3
82.5°	41.2	39.8	39.9	41.4	41.6	41.8	42.9	43.8	44.9	47.6	51.0
85°	21.8	21.8	22.1	22.1	22.4	22.1	23.1	23.4	23.4	25.1	27.0
87.5°	10.2	9.6	9.9	10.2	9.8	10.1	10.2	10.4	10.6	10.8	10.8
90°	11.6	11.5	11.3	11.1	10.9	10.7	10.3	10.0	9.6	9.3	8.2
92.5°	12.8	12.7	12.7	12.6	12.4	12.1	11.5	11.0	10.4	9.9	9.0
95°	14.7	14.7	14.7	14.7	14.7	14.4	13.8	13.2	12.6	12.0	11.0
97.5°	15.9	15.8	15.8	15.7	15.6	15.2	14.6	13.9	13.2	12.5	18.7
100°	16.3	16.2	16.1	16.0	15.9	15.5	14.8	14.1	13.4	12.7	26.2
102.5°	16.5	16.4	16.3	16.1	15.9	17.0	19.0	21.2	23.3	25.5	40.1
105°	17.0	16.9	16.7	16.5	16.4	23.8	39.1	54.2	69.5	84.7	92.5
107.5°	53.5	64.9	76.4	87.8	99.4	110.6	121.8	132.9	144.1	155.2	154.0
110°	106.4	118.6	131.0	143.3	155.6	163.1	165.9	168.8	171.6	174.4	173.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	182.5	185.1	187.7	190.3	192.9	194.2	194.1	194.1	194.0	194.0	193.0
115°	227.5	227.1	226.8	226.4	226.1	225.5	224.6	223.8	222.9	222.1	221.3
117.5°	252.7	252.6	252.5	252.4	252.4	252.0	251.3	250.6	249.9	249.3	248.9
120°	270.0	270.0	270.0	270.0	270.0	269.7	269.0	268.3	267.6	266.9	266.7
122.5°	287.1	287.0	286.9	286.8	286.7	286.5	286.0	285.5	285.0	284.6	284.2
125°	311.0	310.8	310.6	310.5	310.3	310.1	310.0	309.8	309.6	309.4	309.1
127.5°	334.1	334.2	334.4	334.6	334.8	334.7	334.4	334.2	333.9	333.6	333.2
130°	348.9	349.0	349.2	349.4	349.6	349.5	349.1	348.8	348.4	348.1	347.8
132.5°	362.6	362.7	363.0	363.3	363.5	363.4	363.1	362.7	362.4	362.1	361.8
135°	383.3	383.6	383.8	384.1	384.4	384.4	384.1	383.8	383.6	383.3	383.0
137.5°	402.9	403.1	403.3	403.5	403.6	403.5	403.0	402.7	402.3	401.8	401.7
140°	414.7	414.8	415.0	415.2	415.3	415.3	414.9	414.6	414.2	413.9	413.6
142.5°	425.5	425.8	426.0	426.2	426.5	426.5	426.2	425.9	425.6	425.3	425.1
145°	442.1	442.1	442.1	442.1	442.1	442.0	441.9	441.7	441.5	441.3	441.2
147.5°	454.5	455.0	455.3	455.7	456.1	456.2	456.1	455.9	455.7	455.6	455.4
150°	463.8	464.1	464.3	464.6	464.9	464.9	464.7	464.5	464.3	464.2	464.0
152.5°	471.2	471.7	472.0	472.4	472.8	472.9	472.5	472.3	471.9	471.7	471.5
155°	481.6	482.1	482.6	483.1	483.6	483.7	483.3	482.8	482.4	482.0	481.9
157.5°	490.3	491.0	491.7	492.3	493.0	493.1	492.6	492.1	491.5	491.0	491.1
160°	495.9	496.5	497.1	497.7	498.3	498.3	497.8	497.3	496.8	496.3	496.4
162.5°	501.2	501.7	502.2	502.7	503.3	503.3	502.7	502.1	501.5	500.9	501.0
165°	507.6	508.2	508.8	509.3	509.9	509.9	509.2	508.5	507.8	507.1	507.2
167.5°	512.1	512.8	513.5	514.1	514.8	514.8	514.1	513.5	512.8	512.1	512.1
170°	514.9	515.6	516.3	516.9	517.6	517.6	516.9	516.3	515.6	514.9	514.9
172.5°	516.4	517.2	517.9	518.7	519.4	519.4	518.8	518.1	517.4	516.7	516.7
175°	518.8	519.4	520.1	520.8	521.5	521.5	520.9	520.3	519.7	519.1	519.0
177.5°	519.4	520.1	520.8	521.5	522.2	522.3	521.7	521.2	520.6	520.0	520.0
180°	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6
2.5°	701.7	699.6	697.5	693.8	690.6	686.1	684.8	683.3	678.6	674.2	671.1
5°	744.6	736.7	725.1	714.5	706.0	694.5	687.9	681.0	671.1	662.2	654.9
7.5°	789.5	773.9	756.0	736.6	718.5	701.0	687.0	674.5	660.6	647.5	637.3
10°	825.1	802.6	777.6	750.5	727.5	705.0	686.2	669.8	651.9	636.5	623.5
12.5°	865.6	832.4	797.9	765.0	737.7	706.6	683.9	662.9	642.7	624.1	609.6
15°	913.8	871.6	830.7	785.5	743.9	705.0	678.0	651.6	628.2	609.1	590.6
17.5°	957.5	909.7	855.8	800.9	750.8	704.6	666.8	637.0	607.7	584.3	565.8
20°	982.3	927.9	866.9	809.9	754.5	703.0	661.5	625.9	594.3	569.5	548.7
22.5°	1003.8	940.0	876.9	816.0	754.2	698.8	651.8	615.1	580.7	556.6	534.5
25°	1025.9	949.7	886.4	814.9	745.9	688.5	635.8	594.3	559.9	531.6	508.9
27.5°	1044.9	949.1	873.9	796.9	732.9	675.4	619.1	574.5	538.0	507.2	484.1
30°	1057.6	950.4	861.0	784.8	720.2	660.8	606.1	561.3	523.0	491.6	469.9
32.5°	1065.5	949.6	849.1	767.9	700.2	647.6	592.1	545.7	506.4	475.6	454.6
35°	1070.1	943.7	828.7	733.1	667.8	616.6	570.2	522.0	480.8	452.1	428.3
37.5°	1060.8	931.6	804.9	699.4	627.9	577.6	538.5	497.5	458.1	426.5	406.0
40°	1046.3	923.7	786.4	675.7	600.5	552.0	518.8	478.5	439.5	409.6	390.5
42.5°	1018.6	907.6	766.2	649.3	572.0	523.5	492.8	459.3	422.4	394.3	375.1
45°	951.1	872.5	735.7	609.8	529.9	479.8	452.8	428.3	395.0	367.6	351.2
47.5°	857.2	819.8	691.6	568.0	486.0	437.8	409.7	390.0	365.7	343.6	327.8
50°	792.1	776.6	661.9	539.5	456.7	409.6	382.5	364.7	347.2	325.1	310.6
52.5°	716.9	726.4	627.0	510.0	426.9	380.6	355.1	341.0	325.1	306.9	294.3
55°	611.1	645.7	566.9	460.4	382.5	338.4	314.3	301.7	292.5	279.0	268.1
57.5°	512.0	555.9	501.8	409.2	338.9	300.8	277.8	264.1	258.1	251.1	242.5
60°	453.1	496.6	455.4	375.0	309.6	273.4	253.0	241.4	235.5	230.5	223.3
62.5°	400.6	444.6	410.0	340.1	280.9	247.3	229.5	218.2	213.5	210.9	204.7
65°	328.5	366.4	343.3	285.9	239.7	210.1	193.9	186.0	181.7	180.7	176.8
67.5°	267.3	296.2	279.4	237.1	200.8	175.1	161.4	154.7	151.4	151.1	148.1
70°	227.2	254.3	241.4	203.1	171.8	151.7	139.8	133.9	131.9	131.6	129.9
72.5°	196.0	214.9	204.7	172.8	148.6	130.4	121.6	115.4	113.1	113.7	112.5
75°	145.1	159.3	153.3	131.2	111.8	99.9	92.6	88.7	86.7	87.7	86.4
77.5°	104.4	113.4	108.1	92.7	80.8	72.2	66.8	64.4	62.6	62.5	61.9
80°	78.8	84.1	81.1	71.9	62.0	54.8	50.5	48.8	47.8	47.5	47.2
82.5°	56.1	60.6	57.1	50.8	44.1	39.7	37.3	35.1	34.4	34.5	34.3
85°	28.3	30.0	28.7	24.7	22.1	20.1	18.8	17.8	17.1	17.5	16.8
87.5°	11.2	11.2	10.2	9.0	8.3	7.3	7.1	6.4	6.0	6.2	6.1
90°	7.1	5.9	4.8	3.8	2.9	2.1	1.2	0.3	1.2	2.1	2.9
92.5°	8.2	7.4	6.5	6.2	6.5	6.7	7.0	7.2	7.0	6.7	6.5
95°	10.1	9.1	8.2	9.5	13.0	16.5	20.1	23.6	20.1	16.5	13.0
97.5°	24.8	31.0	37.2	41.1	42.7	44.3	45.8	47.4	45.8	44.3	42.7
100°	39.6	53.0	66.4	72.2	70.5	68.8	67.1	65.3	67.1	68.8	70.5
102.5°	54.8	69.4	84.0	90.7	89.5	88.3	87.0	85.8	87.0	88.3	89.5
105°	100.2	107.9	115.6	119.1	118.1	117.2	116.2	115.3	116.2	117.2	118.1
107.5°	152.8	151.6	150.4	149.4	148.6	147.9	147.1	146.4	147.1	147.9	148.6
110°	172.5	171.6	170.7	169.9	169.2	168.5	167.8	167.1	167.8	168.5	169.2



TEST NUMBER: P332120-935

CATALOG NUMBER: S123DIW-S560D460U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	192.1	191.1	190.2	189.4	188.7	188.1	187.5	186.9	187.5	188.1	188.7
115°	220.5	219.7	219.0	218.3	217.7	217.2	216.7	216.2	216.7	217.2	217.7
117.5°	248.5	248.1	247.7	247.2	246.5	245.9	245.3	244.6	245.3	245.9	246.5
120°	266.4	266.1	265.9	265.4	264.6	263.8	263.0	262.3	263.0	263.8	264.6
122.5°	283.9	283.6	283.3	282.8	282.1	281.5	280.9	280.3	280.9	281.5	282.1
125°	308.8	308.4	308.1	307.5	306.9	306.2	305.5	304.8	305.5	306.2	306.9
127.5°	332.8	332.3	331.9	331.4	330.7	330.0	329.3	328.6	329.3	330.0	330.7
130°	347.5	347.2	346.8	346.3	345.6	344.9	344.2	343.5	344.2	344.9	345.6
132.5°	361.5	361.3	360.9	360.5	359.8	359.1	358.4	357.7	358.4	359.1	359.8
135°	382.6	382.3	381.9	381.5	381.0	380.5	380.0	379.4	380.0	380.5	381.0
137.5°	401.5	401.3	401.1	400.6	400.0	399.3	398.7	398.0	398.7	399.3	400.0
140°	413.4	413.1	412.8	412.5	412.0	411.5	411.0	410.4	411.0	411.5	412.0
142.5°	424.8	424.6	424.3	424.0	423.4	422.9	422.4	421.9	422.4	422.9	423.4
145°	441.0	440.8	440.7	440.3	439.7	439.1	438.5	437.9	438.5	439.1	439.7
147.5°	455.2	455.0	454.9	454.5	454.2	453.7	453.4	453.0	453.4	453.7	454.2
150°	463.8	463.6	463.5	463.3	463.0	462.8	462.5	462.3	462.5	462.8	463.0
152.5°	471.4	471.3	471.2	471.1	471.0	470.9	470.7	470.6	470.7	470.9	471.0
155°	481.8	481.7	481.6	481.7	481.9	482.0	482.2	482.3	482.2	482.0	481.9
157.5°	491.2	491.3	491.4	491.5	491.5	491.5	491.5	491.5	491.5	491.5	491.5
160°	496.5	496.5	496.6	496.7	496.8	496.9	497.0	497.1	497.0	496.9	496.8
162.5°	501.1	501.2	501.3	501.4	501.7	501.9	502.1	502.3	502.1	501.9	501.7
165°	507.3	507.4	507.5	507.6	507.9	508.2	508.4	508.7	508.4	508.2	507.9
167.5°	512.1	512.1	512.1	512.3	512.6	513.0	513.3	513.7	513.3	513.0	512.6
170°	514.9	514.9	514.9	515.1	515.4	515.7	516.1	516.4	516.1	515.7	515.4
172.5°	516.6	516.5	516.4	516.6	517.0	517.5	517.9	518.2	517.9	517.5	517.0
175°	518.9	518.8	518.8	518.9	519.4	519.8	520.2	520.6	520.2	519.8	519.4
177.5°	519.9	519.9	519.8	519.9	520.2	520.6	520.9	521.2	520.9	520.6	520.2
180°	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6



TEST NUMBER: P332120-935

CATALOG NUMBER: S123DIW-S560D460U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6
2.5°	669.3	667.4	664.8	660.8	657.6	652.6	652.6	653.4	653.4	653.2	652.6
5°	648.9	644.0	638.1	631.2	623.9	616.6	615.4	612.7	610.7	609.4	607.8
7.5°	627.5	618.8	610.1	600.5	591.6	584.3	579.2	575.0	572.2	569.4	567.2
10°	613.0	602.1	591.9	581.7	570.5	561.5	555.9	552.0	549.1	546.4	545.1
12.5°	595.9	583.4	572.1	562.4	550.2	541.0	535.6	533.8	530.3	524.8	521.9
15°	570.8	559.3	545.8	530.9	525.0	513.8	507.5	504.5	502.6	498.3	497.0
17.5°	549.4	534.3	519.1	508.0	497.0	487.9	484.4	480.7	478.1	474.6	473.6
20°	532.3	518.8	504.9	493.0	481.5	471.6	468.6	466.0	463.3	461.7	460.4
22.5°	514.8	501.3	489.8	478.7	466.4	459.9	456.7	453.8	451.9	450.8	449.5
25°	490.3	478.5	465.6	455.7	445.8	441.5	439.5	437.9	436.6	435.0	434.6
27.5°	468.5	455.6	445.1	435.8	428.8	425.2	423.3	422.5	422.8	423.4	423.7
30°	452.1	440.2	431.6	423.7	417.2	413.9	413.5	413.5	414.8	415.2	415.9
32.5°	437.0	427.3	418.7	411.0	406.0	403.8	405.1	405.1	406.1	407.0	408.2
35°	415.2	406.6	400.0	393.4	389.1	390.1	390.7	391.4	393.0	395.0	396.4
37.5°	394.3	386.8	380.0	374.8	372.8	374.6	376.2	377.5	379.5	381.0	382.3
40°	379.2	373.6	367.0	362.4	363.1	364.0	365.4	367.0	368.7	369.6	371.0
42.5°	365.2	359.4	354.4	350.5	351.5	352.8	353.5	354.4	356.3	358.1	358.9
45°	344.0	339.3	334.7	332.4	333.0	333.7	334.4	335.4	337.0	338.4	338.6
47.5°	320.0	316.8	313.7	311.4	312.5	312.2	313.1	315.2	315.7	316.5	318.3
50°	304.7	301.7	298.1	297.5	297.5	297.5	297.7	300.4	300.4	301.7	303.1
52.5°	287.8	285.9	283.6	282.4	281.9	281.9	283.3	284.6	285.1	287.0	288.3
55°	262.8	260.8	258.9	257.9	257.2	257.9	260.5	261.1	262.8	263.8	264.8
57.5°	236.8	235.2	233.7	233.2	233.0	233.8	235.3	237.3	237.7	240.7	242.2
60°	219.6	217.3	216.0	216.0	215.3	218.3	217.7	220.9	221.6	223.6	225.9
62.5°	201.9	198.8	198.3	198.3	199.2	200.1	201.0	202.5	204.2	206.7	208.4
65°	173.5	171.8	174.1	173.7	173.1	175.1	175.1	176.8	178.7	181.1	184.7
67.5°	146.5	145.6	145.9	145.9	146.8	147.9	148.9	150.3	152.7	155.2	157.5
70°	128.3	129.2	127.6	129.0	129.9	130.3	130.9	132.9	135.5	137.2	139.8
72.5°	110.6	110.6	110.7	111.2	112.3	112.9	113.5	115.7	118.6	120.0	122.2
75°	85.1	84.7	85.8	85.8	87.4	88.1	88.7	89.7	92.3	94.3	96.0
77.5°	62.2	62.5	62.3	63.5	63.0	63.1	65.2	66.1	66.4	70.3	71.2
80°	46.8	47.5	47.8	48.1	48.5	47.8	50.1	51.1	51.1	53.4	55.1
82.5°	33.7	34.0	34.9	35.2	35.3	35.9	36.2	36.9	37.6	38.7	40.8
85°	16.8	17.8	18.2	17.8	18.2	17.5	18.4	18.8	19.1	19.1	19.1
87.5°	6.0	6.5	6.5	7.0	6.9	7.4	7.5	7.0	7.1	7.9	7.0
90°	3.8	4.8	5.9	7.1	8.2	9.3	9.6	10.0	10.3	10.7	10.9
92.5°	6.2	6.5	7.4	8.2	9.0	9.9	10.4	11.0	11.5	12.1	12.4
95°	9.5	8.2	9.1	10.1	11.0	12.0	12.6	13.2	13.8	14.4	14.7
97.5°	41.1	37.2	31.0	24.8	18.7	12.5	13.2	13.9	14.6	15.2	15.6
100°	72.2	66.4	53.0	39.6	26.2	12.7	13.4	14.1	14.8	15.5	15.9
102.5°	90.7	84.0	69.4	54.8	40.1	25.5	23.3	21.2	19.0	17.0	15.9
105°	119.1	115.6	107.9	100.2	92.5	84.7	69.5	54.2	39.1	23.8	16.4
107.5°	149.4	150.4	151.6	152.8	154.0	155.2	144.1	132.9	121.8	110.6	99.4
110°	169.9	170.7	171.6	172.5	173.5	174.4	171.6	168.8	165.9	163.1	155.6



TEST NUMBER: P332120-935

CATALOG NUMBER: S123DIW-S560D460U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	189.4	190.2	191.1	192.1	193.0	194.0	194.0	194.1	194.1	194.2	192.9
115°	218.3	219.0	219.7	220.5	221.3	222.1	222.9	223.8	224.6	225.5	226.1
117.5°	247.2	247.7	248.1	248.5	248.9	249.3	249.9	250.6	251.3	252.0	252.4
120°	265.4	265.9	266.1	266.4	266.7	266.9	267.6	268.3	269.0	269.7	270.0
122.5°	282.8	283.3	283.6	283.9	284.2	284.6	285.0	285.5	286.0	286.5	286.7
125°	307.5	308.1	308.4	308.8	309.1	309.4	309.6	309.8	310.0	310.1	310.3
127.5°	331.4	331.9	332.3	332.8	333.2	333.6	333.9	334.2	334.4	334.7	334.8
130°	346.3	346.8	347.2	347.5	347.8	348.1	348.4	348.8	349.1	349.5	349.6
132.5°	360.5	360.9	361.3	361.5	361.8	362.1	362.4	362.7	363.1	363.4	363.5
135°	381.5	381.9	382.3	382.6	383.0	383.3	383.6	383.8	384.1	384.4	384.4
137.5°	400.6	401.1	401.3	401.5	401.7	401.8	402.3	402.7	403.0	403.5	403.6
140°	412.5	412.8	413.1	413.4	413.6	413.9	414.2	414.6	414.9	415.3	415.3
142.5°	424.0	424.3	424.6	424.8	425.1	425.3	425.6	425.9	426.2	426.5	426.5
145°	440.3	440.7	440.8	441.0	441.2	441.3	441.5	441.7	441.9	442.0	442.1
147.5°	454.5	454.9	455.0	455.2	455.4	455.6	455.7	455.9	456.1	456.2	456.1
150°	463.3	463.5	463.6	463.8	464.0	464.2	464.3	464.5	464.7	464.9	464.9
152.5°	471.1	471.2	471.3	471.4	471.5	471.7	471.9	472.3	472.5	472.9	472.8
155°	481.7	481.6	481.7	481.8	481.9	482.0	482.4	482.8	483.3	483.7	483.6
157.5°	491.5	491.4	491.3	491.2	491.1	491.0	491.5	492.1	492.6	493.1	493.0
160°	496.7	496.6	496.5	496.5	496.4	496.3	496.8	497.3	497.8	498.3	498.3
162.5°	501.4	501.3	501.2	501.1	501.0	500.9	501.5	502.1	502.7	503.3	503.3
165°	507.6	507.5	507.4	507.3	507.2	507.1	507.8	508.5	509.2	509.9	509.9
167.5°	512.3	512.1	512.1	512.1	512.1	512.1	512.8	513.5	514.1	514.8	514.8
170°	515.1	514.9	514.9	514.9	514.9	514.9	515.6	516.3	516.9	517.6	517.6
172.5°	516.6	516.4	516.5	516.6	516.7	516.7	517.4	518.1	518.8	519.4	519.4
175°	518.9	518.8	518.8	518.9	519.0	519.1	519.7	520.3	520.9	521.5	521.5
177.5°	519.9	519.8	519.9	519.9	520.0	520.0	520.6	521.2	521.7	522.3	522.2
180°	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6



TEST NUMBER: P332120-935

CATALOG NUMBER: S123DIW-S560D460U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6
2.5°	650.8	650.6	652.4	651.1	652.4	650.6	650.8	652.6	653.2	653.4	653.4
5°	605.8	606.7	603.5	603.5	603.5	606.7	605.8	607.8	609.4	610.7	612.7
7.5°	565.7	564.2	564.4	562.6	564.4	564.2	565.7	567.2	569.4	572.2	575.0
10°	541.1	539.2	538.5	538.8	538.5	539.2	541.1	545.1	546.4	549.1	552.0
12.5°	520.8	520.4	516.1	516.2	516.1	520.4	520.8	521.9	524.8	530.3	533.8
15°	497.0	490.7	490.0	492.0	490.0	490.7	497.0	497.0	498.3	502.6	504.5
17.5°	473.0	469.7	469.9	468.9	469.9	469.7	473.0	473.6	474.6	478.1	480.7
20°	460.4	458.4	458.1	455.7	458.1	458.4	460.4	460.4	461.7	463.3	466.0
22.5°	448.8	448.1	448.2	445.7	448.2	448.1	448.8	449.5	450.8	451.9	453.8
25°	434.3	435.9	434.6	434.6	434.6	435.9	434.3	434.6	435.0	436.6	437.9
27.5°	424.6	424.5	423.8	423.8	423.8	424.5	424.6	423.7	423.4	422.8	422.5
30°	417.2	416.8	417.5	417.5	417.5	416.8	417.2	415.9	415.2	414.8	413.5
32.5°	409.7	410.2	410.4	410.6	410.4	410.2	409.7	408.2	407.0	406.1	405.1
35°	398.4	398.6	399.7	399.0	399.7	398.6	398.4	396.4	395.0	393.0	391.4
37.5°	382.9	384.4	384.1	384.6	384.1	384.4	382.9	382.3	381.0	379.5	377.5
40°	371.3	372.3	372.0	372.0	372.0	372.3	371.3	371.0	369.6	368.7	367.0
42.5°	359.5	360.2	359.3	358.8	359.3	360.2	359.5	358.9	358.1	356.3	354.4
45°	340.0	339.3	340.4	339.0	340.4	339.3	340.0	338.6	338.4	337.0	335.4
47.5°	318.2	318.9	319.2	320.1	319.2	318.9	318.2	318.3	316.5	315.7	315.2
50°	303.7	305.7	305.7	305.4	305.7	305.7	303.7	303.1	301.7	300.4	300.4
52.5°	289.5	290.4	291.7	291.6	291.7	290.4	289.5	288.3	287.0	285.1	284.6
55°	267.4	268.1	268.7	269.1	268.7	268.1	267.4	264.8	263.8	262.8	261.1
57.5°	244.6	244.4	245.9	246.4	245.9	244.4	244.6	242.2	240.7	237.7	237.3
60°	228.5	228.5	231.2	232.1	231.2	228.5	228.5	225.9	223.6	221.6	220.9
62.5°	211.4	212.4	215.1	213.7	215.1	212.4	211.4	208.4	206.7	204.2	202.5
65°	186.3	189.0	188.6	189.9	188.6	189.0	186.3	184.7	181.1	178.7	176.8
67.5°	160.1	161.8	164.2	164.4	164.2	161.8	160.1	157.5	155.2	152.7	150.3
70°	142.5	144.1	145.4	146.4	145.4	144.1	142.5	139.8	137.2	135.5	132.9
72.5°	125.3	126.1	129.3	127.9	129.3	126.1	125.3	122.2	120.0	118.6	115.7
75°	98.2	100.6	102.5	101.6	102.5	100.6	98.2	96.0	94.3	92.3	89.7
77.5°	72.7	75.0	75.9	75.1	75.9	75.0	72.7	71.2	70.3	66.4	66.1
80°	57.3	57.1	59.1	58.7	59.1	57.1	57.3	55.1	53.4	51.1	51.1
82.5°	42.1	41.8	42.7	42.9	42.7	41.8	42.1	40.8	38.7	37.6	36.9
85°	20.4	21.4	20.1	19.8	20.1	21.4	20.4	19.1	19.1	19.1	18.8
87.5°	7.0	7.0	6.8	6.5	6.8	7.0	7.0	7.0	7.9	7.1	7.0
90°	11.1	11.3	11.5	11.6	11.5	11.3	11.1	10.9	10.7	10.3	10.0
92.5°	12.6	12.7	12.7	12.8	12.7	12.7	12.6	12.4	12.1	11.5	11.0
95°	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.4	13.8	13.2
97.5°	15.7	15.8	15.8	15.9	15.8	15.8	15.7	15.6	15.2	14.6	13.9
100°	16.0	16.1	16.2	16.3	16.2	16.1	16.0	15.9	15.5	14.8	14.1
102.5°	16.1	16.3	16.4	16.5	16.4	16.3	16.1	15.9	17.0	19.0	21.2
105°	16.5	16.7	16.9	17.0	16.9	16.7	16.5	16.4	23.8	39.1	54.2
107.5°	87.8	76.4	64.9	53.5	64.9	76.4	87.8	99.4	110.6	121.8	132.9
110°	143.3	131.0	118.6	106.4	118.6	131.0	143.3	155.6	163.1	165.9	168.8



TEST NUMBER: P332120-935

CATALOG NUMBER: S123DIW-S560D460U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	190.3	187.7	185.1	182.5	185.1	187.7	190.3	192.9	194.2	194.1	194.1
115°	226.4	226.8	227.1	227.5	227.1	226.8	226.4	226.1	225.5	224.6	223.8
117.5°	252.4	252.5	252.6	252.7	252.6	252.5	252.4	252.4	252.0	251.3	250.6
120°	270.0	270.0	270.0	270.0	270.0	270.0	270.0	270.0	269.7	269.0	268.3
122.5°	286.8	286.9	287.0	287.1	287.0	286.9	286.8	286.7	286.5	286.0	285.5
125°	310.5	310.6	310.8	311.0	310.8	310.6	310.5	310.3	310.1	310.0	309.8
127.5°	334.6	334.4	334.2	334.1	334.2	334.4	334.6	334.8	334.7	334.4	334.2
130°	349.4	349.2	349.0	348.9	349.0	349.2	349.4	349.6	349.5	349.1	348.8
132.5°	363.3	363.0	362.7	362.6	362.7	363.0	363.3	363.5	363.4	363.1	362.7
135°	384.1	383.8	383.6	383.3	383.6	383.8	384.1	384.4	384.4	384.1	383.8
137.5°	403.5	403.3	403.1	402.9	403.1	403.3	403.5	403.6	403.5	403.0	402.7
140°	415.2	415.0	414.8	414.7	414.8	415.0	415.2	415.3	415.3	414.9	414.6
142.5°	426.2	426.0	425.8	425.5	425.8	426.0	426.2	426.5	426.5	426.2	425.9
145°	442.1	442.1	442.1	442.1	442.1	442.1	442.1	442.1	442.0	441.9	441.7
147.5°	455.7	455.3	455.0	454.5	455.0	455.3	455.7	456.1	456.2	456.1	455.9
150°	464.6	464.3	464.1	463.8	464.1	464.3	464.6	464.9	464.9	464.7	464.5
152.5°	472.4	472.0	471.7	471.2	471.7	472.0	472.4	472.8	472.9	472.5	472.3
155°	483.1	482.6	482.1	481.6	482.1	482.6	483.1	483.6	483.7	483.3	482.8
157.5°	492.3	491.7	491.0	490.3	491.0	491.7	492.3	493.0	493.1	492.6	492.1
160°	497.7	497.1	496.5	495.9	496.5	497.1	497.7	498.3	498.3	497.8	497.3
162.5°	502.7	502.2	501.7	501.2	501.7	502.2	502.7	503.3	503.3	502.7	502.1
165°	509.3	508.8	508.2	507.6	508.2	508.8	509.3	509.9	509.9	509.2	508.5
167.5°	514.1	513.5	512.8	512.1	512.8	513.5	514.1	514.8	514.8	514.1	513.5
170°	516.9	516.3	515.6	514.9	515.6	516.3	516.9	517.6	517.6	516.9	516.3
172.5°	518.7	517.9	517.2	516.4	517.2	517.9	518.7	519.4	519.4	518.8	518.1
175°	520.8	520.1	519.4	518.8	519.4	520.1	520.8	521.5	521.5	520.9	520.3
177.5°	521.5	520.8	520.1	519.4	520.1	520.8	521.5	522.2	522.3	521.7	521.2
180°	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6



TEST NUMBER: P332120-935

CATALOG NUMBER: S123DIW-S560D460U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6
2.5°	652.6	652.6	657.6	660.8	664.8	667.4	669.3	671.1	674.2	678.6	683.3
5°	615.4	616.6	623.9	631.2	638.1	644.0	648.9	654.9	662.2	671.1	681.0
7.5°	579.2	584.3	591.6	600.5	610.1	618.8	627.5	637.3	647.5	660.6	674.5
10°	555.9	561.5	570.5	581.7	591.9	602.1	613.0	623.5	636.5	651.9	669.8
12.5°	535.6	541.0	550.2	562.4	572.1	583.4	595.9	609.6	624.1	642.7	662.9
15°	507.5	513.8	525.0	530.9	545.8	559.3	570.8	590.6	609.1	628.2	651.6
17.5°	484.4	487.9	497.0	508.0	519.1	534.3	549.4	565.8	584.3	607.7	637.0
20°	468.6	471.6	481.5	493.0	504.9	518.8	532.3	548.7	569.5	594.3	625.9
22.5°	456.7	459.9	466.4	478.7	489.8	501.3	514.8	534.5	556.6	580.7	615.1
25°	439.5	441.5	445.8	455.7	465.6	478.5	490.3	508.9	531.6	559.9	594.3
27.5°	423.3	425.2	428.8	435.8	445.1	455.6	468.5	484.1	507.2	538.0	574.5
30°	413.5	413.9	417.2	423.7	431.6	440.2	452.1	469.9	491.6	523.0	561.3
32.5°	405.1	403.8	406.0	411.0	418.7	427.3	437.0	454.6	475.6	506.4	545.7
35°	390.7	390.1	389.1	393.4	400.0	406.6	415.2	428.3	452.1	480.8	522.0
37.5°	376.2	374.6	372.8	374.8	380.0	386.8	394.3	406.0	426.5	458.1	497.5
40°	365.4	364.0	363.1	362.4	367.0	373.6	379.2	390.5	409.6	439.5	478.5
42.5°	353.5	352.8	351.5	350.5	354.4	359.4	365.2	375.1	394.3	422.4	459.3
45°	334.4	333.7	333.0	332.4	334.7	339.3	344.0	351.2	367.6	395.0	428.3
47.5°	313.1	312.2	312.5	311.4	313.7	316.8	320.0	327.8	343.6	365.7	390.0
50°	297.7	297.5	297.5	297.5	298.1	301.7	304.7	310.6	325.1	347.2	364.7
52.5°	283.3	281.9	281.9	282.4	283.6	285.9	287.8	294.3	306.9	325.1	341.0
55°	260.5	257.9	257.2	257.9	258.9	260.8	262.8	268.1	279.0	292.5	301.7
57.5°	235.3	233.8	233.0	233.2	233.7	235.2	236.8	242.5	251.1	258.1	264.1
60°	217.7	218.3	215.3	216.0	216.0	217.3	219.6	223.3	230.5	235.5	241.4
62.5°	201.0	200.1	199.2	198.3	198.3	198.8	201.9	204.7	210.9	213.5	218.2
65°	175.1	175.1	173.1	173.7	174.1	171.8	173.5	176.8	180.7	181.7	186.0
67.5°	148.9	147.9	146.8	145.9	145.9	145.6	146.5	148.1	151.1	151.4	154.7
70°	130.9	130.3	129.9	129.0	127.6	129.2	128.3	129.9	131.6	131.9	133.9
72.5°	113.5	112.9	112.3	111.2	110.7	110.6	110.6	112.5	113.7	113.1	115.4
75°	88.7	88.1	87.4	85.8	85.8	84.7	85.1	86.4	87.7	86.7	88.7
77.5°	65.2	63.1	63.0	63.5	62.3	62.5	62.2	61.9	62.5	62.6	64.4
80°	50.1	47.8	48.5	48.1	47.8	47.5	46.8	47.2	47.5	47.8	48.8
82.5°	36.2	35.9	35.3	35.2	34.9	34.0	33.7	34.3	34.5	34.4	35.1
85°	18.4	17.5	18.2	17.8	18.2	17.8	16.8	16.8	17.5	17.1	17.8
87.5°	7.5	7.4	6.9	7.0	6.5	6.5	6.0	6.1	6.2	6.0	6.4
90°	9.6	9.3	8.2	7.1	5.9	4.8	3.8	2.9	2.1	1.2	0.3
92.5°	10.4	9.9	9.0	8.2	7.4	6.5	6.2	6.5	6.7	7.0	7.2
95°	12.6	12.0	11.0	10.1	9.1	8.2	9.5	13.0	16.5	20.1	23.6
97.5°	13.2	12.5	18.7	24.8	31.0	37.2	41.1	42.7	44.3	45.8	47.4
100°	13.4	12.7	26.2	39.6	53.0	66.4	72.2	70.5	68.8	67.1	65.3
102.5°	23.3	25.5	40.1	54.8	69.4	84.0	90.7	89.5	88.3	87.0	85.8
105°	69.5	84.7	92.5	100.2	107.9	115.6	119.1	118.1	117.2	116.2	115.3
107.5°	144.1	155.2	154.0	152.8	151.6	150.4	149.4	148.6	147.9	147.1	146.4
110°	171.6	174.4	173.5	172.5	171.6	170.7	169.9	169.2	168.5	167.8	167.1



TEST NUMBER: P332120-935

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	194.0	194.0	193.0	192.1	191.1	190.2	189.4	188.7	188.1	187.5	186.9
115°	222.9	222.1	221.3	220.5	219.7	219.0	218.3	217.7	217.2	216.7	216.2
117.5°	249.9	249.3	248.9	248.5	248.1	247.7	247.2	246.5	245.9	245.3	244.6
120°	267.6	266.9	266.7	266.4	266.1	265.9	265.4	264.6	263.8	263.0	262.3
122.5°	285.0	284.6	284.2	283.9	283.6	283.3	282.8	282.1	281.5	280.9	280.3
125°	309.6	309.4	309.1	308.8	308.4	308.1	307.5	306.9	306.2	305.5	304.8
127.5°	333.9	333.6	333.2	332.8	332.3	331.9	331.4	330.7	330.0	329.3	328.6
130°	348.4	348.1	347.8	347.5	347.2	346.8	346.3	345.6	344.9	344.2	343.5
132.5°	362.4	362.1	361.8	361.5	361.3	360.9	360.5	359.8	359.1	358.4	357.7
135°	383.6	383.3	383.0	382.6	382.3	381.9	381.5	381.0	380.5	380.0	379.4
137.5°	402.3	401.8	401.7	401.5	401.3	401.1	400.6	400.0	399.3	398.7	398.0
140°	414.2	413.9	413.6	413.4	413.1	412.8	412.5	412.0	411.5	411.0	410.4
142.5°	425.6	425.3	425.1	424.8	424.6	424.3	424.0	423.4	422.9	422.4	421.9
145°	441.5	441.3	441.2	441.0	440.8	440.7	440.3	439.7	439.1	438.5	437.9
147.5°	455.7	455.6	455.4	455.2	455.0	454.9	454.5	454.2	453.7	453.4	453.0
150°	464.3	464.2	464.0	463.8	463.6	463.5	463.3	463.0	462.8	462.5	462.3
152.5°	471.9	471.7	471.5	471.4	471.3	471.2	471.1	471.0	470.9	470.7	470.6
155°	482.4	482.0	481.9	481.8	481.7	481.6	481.7	481.9	482.0	482.2	482.3
157.5°	491.5	491.0	491.1	491.2	491.3	491.4	491.5	491.5	491.5	491.5	491.5
160°	496.8	496.3	496.4	496.5	496.5	496.6	496.7	496.8	496.9	497.0	497.1
162.5°	501.5	500.9	501.0	501.1	501.2	501.3	501.4	501.7	501.9	502.1	502.3
165°	507.8	507.1	507.2	507.3	507.4	507.5	507.6	507.9	508.2	508.4	508.7
167.5°	512.8	512.1	512.1	512.1	512.1	512.1	512.3	512.6	513.0	513.3	513.7
170°	515.6	514.9	514.9	514.9	514.9	514.9	515.1	515.4	515.7	516.1	516.4
172.5°	517.4	516.7	516.7	516.6	516.5	516.4	516.6	517.0	517.5	517.9	518.2
175°	519.7	519.1	519.0	518.9	518.8	518.8	518.9	519.4	519.8	520.2	520.6
177.5°	520.6	520.0	520.0	519.9	519.9	519.8	519.9	520.2	520.6	520.9	521.2
180°	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6



TEST NUMBER: P332120-935

CATALOG NUMBER: S123DIW-S560D460U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6	680.6
2.5°	684.8	686.1	690.6	693.8	697.5	699.6	701.7	703.4	705.4	705.9	713.6
5°	687.9	694.5	706.0	714.5	725.1	736.7	744.6	748.2	757.8	765.7	781.5
7.5°	687.0	701.0	718.5	736.6	756.0	773.9	789.5	807.9	821.0	840.8	860.2
10°	686.2	705.0	727.5	750.5	777.6	802.6	825.1	850.2	870.9	898.3	921.7
12.5°	683.9	706.6	737.7	765.0	797.9	832.4	865.6	897.9	916.3	961.8	983.4
15°	678.0	705.0	743.9	785.5	830.7	871.6	913.8	947.4	1001.8	1041.7	1067.1
17.5°	666.8	704.6	750.8	800.9	855.8	909.7	957.5	1008.6	1066.3	1114.6	1166.1
20°	661.5	703.0	754.5	809.9	866.9	927.9	982.3	1043.7	1106.6	1154.2	1220.1
22.5°	651.8	698.8	754.2	816.0	876.9	940.0	1003.8	1065.6	1138.3	1203.8	1266.5
25°	635.8	688.5	745.9	814.9	886.4	949.7	1025.9	1108.0	1183.9	1267.9	1330.6
27.5°	619.1	675.4	732.9	796.9	873.9	949.1	1044.9	1137.6	1230.4	1303.0	1349.4
30°	606.1	660.8	720.2	784.8	861.0	950.4	1057.6	1158.7	1249.1	1311.5	1337.5
32.5°	592.1	647.6	700.2	767.9	849.1	949.6	1065.5	1171.1	1250.2	1291.7	1286.6
35°	570.2	616.6	667.8	733.1	828.7	943.7	1070.1	1172.3	1220.7	1211.9	1144.6
37.5°	538.5	577.6	627.9	699.4	804.9	931.6	1060.8	1137.6	1134.4	1061.9	964.4
40°	518.8	552.0	600.5	675.7	786.4	923.7	1046.3	1096.1	1054.0	952.7	835.9
42.5°	492.8	523.5	572.0	649.3	766.2	907.6	1018.6	1033.0	950.5	834.0	727.0
45°	452.8	479.8	529.9	609.8	735.7	872.5	951.1	915.8	804.6	684.2	602.8
47.5°	409.7	437.8	486.0	568.0	691.6	819.8	857.2	782.2	668.0	570.5	495.7
50°	382.5	409.6	456.7	539.5	661.9	776.6	792.1	695.2	590.3	504.5	443.2
52.5°	355.1	380.6	426.9	510.0	627.0	726.4	716.9	618.1	521.7	448.6	400.5
55°	314.3	338.4	382.5	460.4	566.9	645.7	611.1	516.8	437.0	380.2	343.6
57.5°	277.8	300.8	338.9	409.2	501.8	555.9	512.0	432.5	369.0	325.4	298.1
60°	253.0	273.4	309.6	375.0	455.4	496.6	453.1	382.9	329.4	294.5	270.1
62.5°	229.5	247.3	280.9	340.1	410.0	444.6	400.6	341.1	295.7	264.7	243.9
65°	193.9	210.1	239.7	285.9	343.3	366.4	328.5	280.3	245.0	222.0	208.1
67.5°	161.4	175.1	200.8	237.1	279.4	296.2	267.3	230.1	203.5	184.9	173.9
70°	139.8	151.7	171.8	203.1	241.4	254.3	227.2	196.6	177.1	162.2	152.1
72.5°	121.6	130.4	148.6	172.8	204.7	214.9	196.0	169.1	150.9	139.8	131.7
75°	92.6	99.9	111.8	131.2	153.3	159.3	145.1	128.3	116.1	108.1	101.9
77.5°	66.8	72.2	80.8	92.7	108.1	113.4	104.4	93.2	84.3	79.0	75.4
80°	50.5	54.8	62.0	71.9	81.1	84.1	78.8	70.3	64.0	61.0	58.0
82.5°	37.3	39.7	44.1	50.8	57.1	60.6	56.1	51.0	47.6	44.9	43.8
85°	18.8	20.1	22.1	24.7	28.7	30.0	28.3	27.0	25.1	23.4	23.4
87.5°	7.1	7.3	8.3	9.0	10.2	11.2	11.2	10.8	10.8	10.6	10.4
90°	1.2	2.1	2.9	3.8	4.8	5.9	7.1	8.2	9.3	9.6	10.0
92.5°	7.0	6.7	6.5	6.2	6.5	7.4	8.2	9.0	9.9	10.4	11.0
95°	20.1	16.5	13.0	9.5	8.2	9.1	10.1	11.0	12.0	12.6	13.2
97.5°	45.8	44.3	42.7	41.1	37.2	31.0	24.8	18.7	12.5	13.2	13.9
100°	67.1	68.8	70.5	72.2	66.4	53.0	39.6	26.2	12.7	13.4	14.1
102.5°	87.0	88.3	89.5	90.7	84.0	69.4	54.8	40.1	25.5	23.3	21.2
105°	116.2	117.2	118.1	119.1	115.6	107.9	100.2	92.5	84.7	69.5	54.2
107.5°	147.1	147.9	148.6	149.4	150.4	151.6	152.8	154.0	155.2	144.1	132.9
110°	167.8	168.5	169.2	169.9	170.7	171.6	172.5	173.5	174.4	171.6	168.8



TEST NUMBER: P332120-935

CATALOG NUMBER: S123DIW-S560D460U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	187.5	188.1	188.7	189.4	190.2	191.1	192.1	193.0	194.0	194.0	194.1
115°	216.7	217.2	217.7	218.3	219.0	219.7	220.5	221.3	222.1	222.9	223.8
117.5°	245.3	245.9	246.5	247.2	247.7	248.1	248.5	248.9	249.3	249.9	250.6
120°	263.0	263.8	264.6	265.4	265.9	266.1	266.4	266.7	266.9	267.6	268.3
122.5°	280.9	281.5	282.1	282.8	283.3	283.6	283.9	284.2	284.6	285.0	285.5
125°	305.5	306.2	306.9	307.5	308.1	308.4	308.8	309.1	309.4	309.6	309.8
127.5°	329.3	330.0	330.7	331.4	331.9	332.3	332.8	333.2	333.6	333.9	334.2
130°	344.2	344.9	345.6	346.3	346.8	347.2	347.5	347.8	348.1	348.4	348.8
132.5°	358.4	359.1	359.8	360.5	360.9	361.3	361.5	361.8	362.1	362.4	362.7
135°	380.0	380.5	381.0	381.5	381.9	382.3	382.6	383.0	383.3	383.6	383.8
137.5°	398.7	399.3	400.0	400.6	401.1	401.3	401.5	401.7	401.8	402.3	402.7
140°	411.0	411.5	412.0	412.5	412.8	413.1	413.4	413.6	413.9	414.2	414.6
142.5°	422.4	422.9	423.4	424.0	424.3	424.6	424.8	425.1	425.3	425.6	425.9
145°	438.5	439.1	439.7	440.3	440.7	440.8	441.0	441.2	441.3	441.5	441.7
147.5°	453.4	453.7	454.2	454.5	454.9	455.0	455.2	455.4	455.6	455.7	455.9
150°	462.5	462.8	463.0	463.3	463.5	463.6	463.8	464.0	464.2	464.3	464.5
152.5°	470.7	470.9	471.0	471.1	471.2	471.3	471.4	471.5	471.7	471.9	472.3
155°	482.2	482.0	481.9	481.7	481.6	481.7	481.8	481.9	482.0	482.4	482.8
157.5°	491.5	491.5	491.5	491.5	491.4	491.3	491.2	491.1	491.0	491.5	492.1
160°	497.0	496.9	496.8	496.7	496.6	496.5	496.5	496.4	496.3	496.8	497.3
162.5°	502.1	501.9	501.7	501.4	501.3	501.2	501.1	501.0	500.9	501.5	502.1
165°	508.4	508.2	507.9	507.6	507.5	507.4	507.3	507.2	507.1	507.8	508.5
167.5°	513.3	513.0	512.6	512.3	512.1	512.1	512.1	512.1	512.1	512.8	513.5
170°	516.1	515.7	515.4	515.1	514.9	514.9	514.9	514.9	514.9	515.6	516.3
172.5°	517.9	517.5	517.0	516.6	516.4	516.5	516.6	516.7	516.7	517.4	518.1
175°	520.2	519.8	519.4	518.9	518.8	518.8	518.9	519.0	519.1	519.7	520.3
177.5°	520.9	520.6	520.2	519.9	519.8	519.9	519.9	520.0	520.0	520.6	521.2
180°	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	680.6	680.6	680.6	680.6	680.6	680.6	680.6
2.5°	716.3	716.5	719.4	721.5	720.5	721.8	722.3
5°	782.5	794.4	800.6	805.3	805.6	805.9	808.6
7.5°	876.5	889.2	898.5	912.7	916.9	921.7	920.3
10°	945.1	963.9	980.1	988.6	997.8	1011.3	1000.5
12.5°	1009.2	1042.5	1067.1	1080.4	1089.2	1091.8	1086.5
15°	1114.9	1158.5	1181.9	1181.2	1210.9	1223.7	1203.6
17.5°	1211.9	1252.1	1284.2	1300.7	1325.4	1330.9	1328.4
20°	1271.2	1315.1	1340.1	1368.5	1381.4	1392.9	1394.9
22.5°	1322.4	1361.8	1388.7	1412.3	1423.1	1428.5	1431.8
25°	1375.1	1406.1	1422.3	1430.5	1433.5	1432.8	1428.5
27.5°	1371.5	1373.8	1356.1	1338.6	1322.9	1305.3	1299.2
30°	1335.8	1308.1	1258.7	1230.6	1189.5	1156.8	1170.0
32.5°	1242.2	1187.1	1131.5	1070.2	1019.5	1005.1	990.6
35°	1060.1	963.2	906.5	840.6	814.2	787.8	769.6
37.5°	857.7	782.7	715.4	672.3	645.8	629.2	620.2
40°	741.7	674.0	618.6	583.7	563.5	544.8	542.1
42.5°	649.0	586.2	544.5	516.7	497.3	489.4	483.5
45°	531.6	487.7	459.7	439.9	427.1	422.1	415.5
47.5°	450.0	419.0	397.9	384.4	374.7	371.0	370.5
50°	404.3	378.6	363.1	352.5	344.9	343.6	338.4
52.5°	370.0	347.7	335.6	326.4	320.9	317.2	315.6
55°	321.2	306.3	295.5	290.2	285.9	282.2	282.2
57.5°	281.0	268.6	261.4	256.9	255.6	253.0	251.4
60°	256.2	245.6	240.0	236.1	233.5	233.8	230.8
62.5°	232.0	225.1	219.7	215.8	212.7	212.7	212.9
65°	197.5	192.3	188.3	187.0	185.0	182.7	183.3
67.5°	167.4	162.5	159.4	157.1	156.4	155.2	157.1
70°	145.8	142.2	139.8	137.8	137.2	137.5	139.1
72.5°	126.0	123.4	121.9	121.0	119.5	119.6	120.7
75°	98.9	96.9	95.7	94.6	94.3	94.3	94.3
77.5°	72.7	72.2	71.6	70.2	70.3	70.6	70.7
80°	57.3	56.4	56.1	55.4	54.4	53.7	55.4
82.5°	42.9	41.8	41.6	41.4	39.9	39.8	41.2
85°	23.1	22.1	22.4	22.1	22.1	21.8	21.8
87.5°	10.2	10.1	9.8	10.2	9.9	9.6	10.2
90°	10.3	10.7	10.9	11.1	11.3	11.5	11.6
92.5°	11.5	12.1	12.4	12.6	12.7	12.7	12.8
95°	13.8	14.4	14.7	14.7	14.7	14.7	14.7
97.5°	14.6	15.2	15.6	15.7	15.8	15.8	15.9
100°	14.8	15.5	15.9	16.0	16.1	16.2	16.3
102.5°	19.0	17.0	15.9	16.1	16.3	16.4	16.5
105°	39.1	23.8	16.4	16.5	16.7	16.9	17.0
107.5°	121.8	110.6	99.4	87.8	76.4	64.9	53.5
110°	165.9	163.1	155.6	143.3	131.0	118.6	106.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	194.1	194.2	192.9	190.3	187.7	185.1	182.5
115°	224.6	225.5	226.1	226.4	226.8	227.1	227.5
117.5°	251.3	252.0	252.4	252.4	252.5	252.6	252.7
120°	269.0	269.7	270.0	270.0	270.0	270.0	270.0
122.5°	286.0	286.5	286.7	286.8	286.9	287.0	287.1
125°	310.0	310.1	310.3	310.5	310.6	310.8	311.0
127.5°	334.4	334.7	334.8	334.6	334.4	334.2	334.1
130°	349.1	349.5	349.6	349.4	349.2	349.0	348.9
132.5°	363.1	363.4	363.5	363.3	363.0	362.7	362.6
135°	384.1	384.4	384.4	384.1	383.8	383.6	383.3
137.5°	403.0	403.5	403.6	403.5	403.3	403.1	402.9
140°	414.9	415.3	415.3	415.2	415.0	414.8	414.7
142.5°	426.2	426.5	426.5	426.2	426.0	425.8	425.5
145°	441.9	442.0	442.1	442.1	442.1	442.1	442.1
147.5°	456.1	456.2	456.1	455.7	455.3	455.0	454.5
150°	464.7	464.9	464.9	464.6	464.3	464.1	463.8
152.5°	472.5	472.9	472.8	472.4	472.0	471.7	471.2
155°	483.3	483.7	483.6	483.1	482.6	482.1	481.6
157.5°	492.6	493.1	493.0	492.3	491.7	491.0	490.3
160°	497.8	498.3	498.3	497.7	497.1	496.5	495.9
162.5°	502.7	503.3	503.3	502.7	502.2	501.7	501.2
165°	509.2	509.9	509.9	509.3	508.8	508.2	507.6
167.5°	514.1	514.8	514.8	514.1	513.5	512.8	512.1
170°	516.9	517.6	517.6	516.9	516.3	515.6	514.9
172.5°	518.8	519.4	519.4	518.7	517.9	517.2	516.4
175°	520.9	521.5	521.5	520.8	520.1	519.4	518.8
177.5°	521.7	522.3	522.2	521.5	520.8	520.1	519.4
180°	520.6	520.6	520.6	520.6	520.6	520.6	520.6

(END OF REPORT)