

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P332121-935

Luminaire Tested: **S123DIW-S560D460U935-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332121-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIW-S560D460U935-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 460 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3431.9 lumens
Efficiency: N/A
Efficacy: 113.6 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

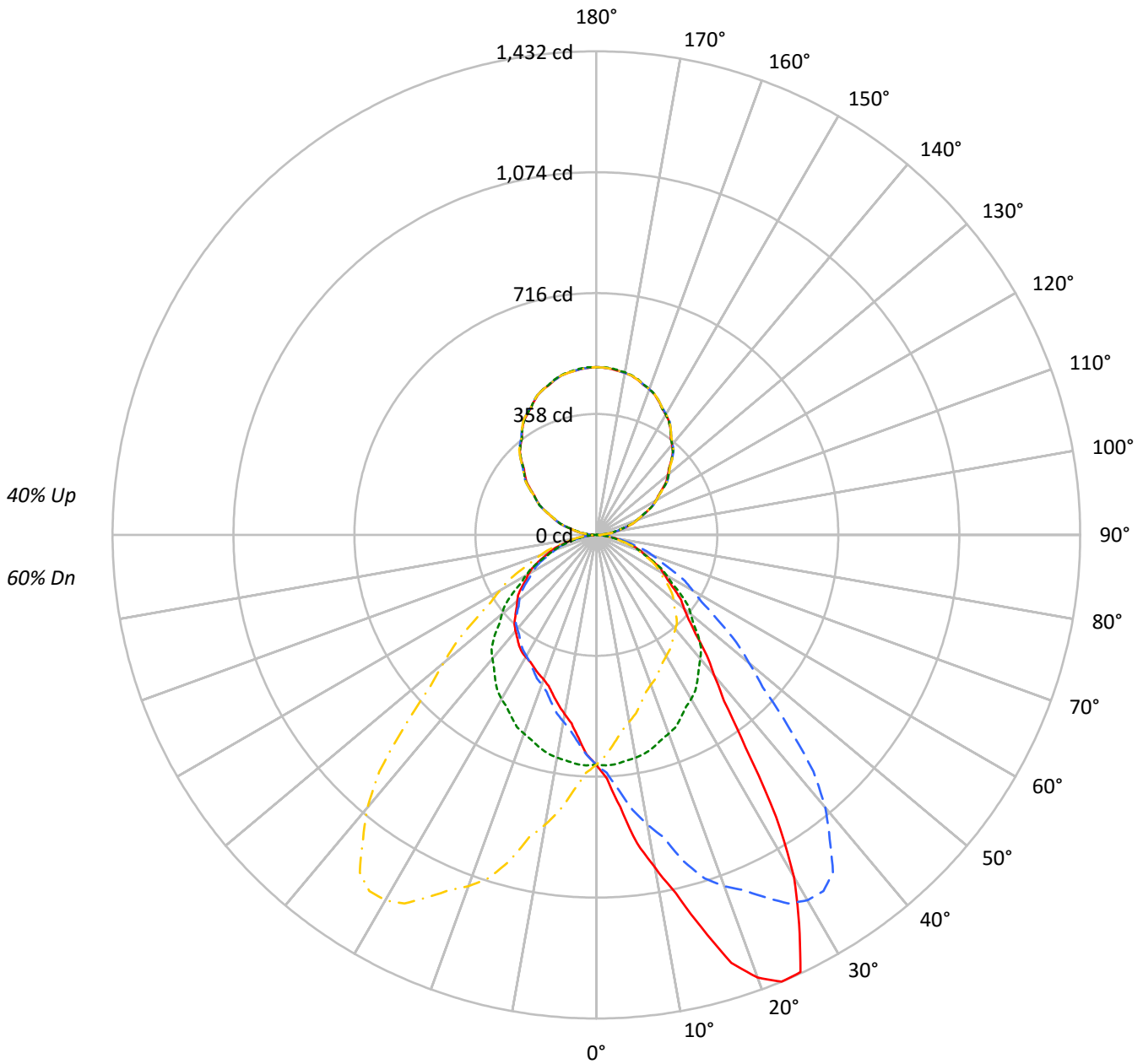
Input Watts (W): 30.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - - - 135°-315°



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

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	2.0
10°-20°	215.0	6.3
20°-30°	360.8	10.5
30°-40°	408.6	11.9
40°-50°	366.4	10.7
50°-60°	295.7	8.6
60°-70°	206.0	6.0
70°-80°	108.3	3.2
80°-90°	28.0	0.8
90°-100°	32.4	0.9
100°-110°	96.8	2.8
110°-120°	164.7	4.8
120°-130°	216.7	6.3
130°-140°	243.5	7.1
140°-150°	239.4	7.0
150°-160°	201.5	5.9
160°-170°	134.2	3.9
170°-180°	47.0	1.4
0°-30°	642.9	18.7
0°-40°	1051.4	30.6
0°-60°	1713.5	49.9
0°-90°	2055.7	59.9
90°-120°	293.9	8.6
90°-150°	993.5	28.9
90°-180°	1376.0	40.1
0°-180°	3431.9	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	7
95°	30	23	30	23	30	31
105°	93	88	93	88	93	99
115°	166	166	166	166	166	165
125°	240	243	240	243	240	215
135°	314	315	314	315	314	242
145°	382	382	382	382	382	238
155°	437	437	437	437	437	201
165°	475	476	475	476	475	134
175°	494	496	494	496	494	47
180°	497	497	497	497	497	



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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	9.7	9.9	10.2	9.8	10.1	10.2	10.4	10.7	10.8	10.8
90°	11.7	11.5	11.4	11.2	11.0	10.8	10.4	10.1	9.7	9.4	8.3
92.5°	15.8	15.8	15.9	16.1	16.2	16.1	15.8	15.5	15.2	15.0	14.4
95°	30.4	30.4	30.4	30.4	30.4	30.2	29.9	29.5	29.2	28.8	28.2
97.5°	46.8	46.8	46.9	46.9	46.9	46.8	46.4	46.0	45.5	45.2	44.7
100°	59.3	59.2	59.0	58.8	58.6	58.4	58.1	57.9	57.6	57.3	56.9
102.5°	72.1	72.2	72.2	72.2	72.2	72.2	71.9	71.6	71.4	71.1	70.5
105°	92.9	92.7	92.6	92.4	92.1	92.0	92.0	92.0	92.0	92.0	91.3
107.5°	114.5	114.6	114.7	114.8	114.9	114.8	114.5	114.3	114.0	113.7	113.4
110°	129.2	129.3	129.5	129.7	129.8	129.8	129.4	129.1	128.7	128.4	128.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	144.7	144.8	144.8	144.8	144.9	144.7	144.3	143.9	143.4	143.0	143.0
115°	166.3	166.3	166.4	166.5	166.6	166.6	166.5	166.4	166.3	166.3	166.4
117.5°	188.0	188.2	188.5	188.7	189.0	189.1	189.1	189.2	189.2	189.2	189.4
120°	203.3	203.5	203.6	203.8	204.0	204.1	204.2	204.3	204.4	204.5	204.9
122.5°	217.9	218.2	218.4	218.7	219.0	219.1	219.4	219.6	219.8	220.1	220.3
125°	240.0	240.3	240.6	241.0	241.3	241.7	242.0	242.4	242.7	243.1	243.2
127.5°	261.9	262.3	262.7	263.1	263.5	263.9	264.4	264.9	265.4	265.9	266.0
130°	276.2	276.9	277.5	278.1	278.7	279.1	279.5	279.8	280.2	280.5	280.8
132.5°	291.2	291.7	292.1	292.7	293.1	293.5	293.9	294.4	294.8	295.2	295.4
135°	314.5	314.7	314.9	315.0	315.2	315.5	315.8	316.2	316.5	316.8	316.9
137.5°	335.0	335.4	335.7	336.0	336.3	336.7	337.1	337.4	337.8	338.1	337.9
140°	348.4	349.0	349.7	350.3	350.9	351.2	351.3	351.4	351.5	351.5	351.5
142.5°	362.1	362.7	363.1	363.6	364.0	364.3	364.4	364.5	364.5	364.6	364.5
145°	382.0	382.4	382.7	383.1	383.4	383.6	383.7	383.7	383.8	383.9	383.7
147.5°	399.6	400.1	400.6	401.2	401.7	402.0	402.0	402.0	402.0	402.0	401.7
150°	410.9	411.4	411.9	412.4	412.9	413.2	413.2	413.2	413.2	413.2	413.0
152.5°	421.8	422.2	422.7	423.2	423.6	423.8	423.6	423.4	423.4	423.2	423.1
155°	436.6	437.2	437.8	438.4	439.0	439.2	438.9	438.5	438.2	437.8	437.7
157.5°	450.1	450.6	451.1	451.6	452.0	452.1	451.8	451.4	451.0	450.6	450.6
160°	458.8	459.2	459.5	459.9	460.2	460.2	459.8	459.3	458.9	458.5	458.5
162.5°	465.4	466.0	466.5	467.1	467.6	467.7	467.3	466.8	466.4	466.0	465.9
165°	474.8	475.4	476.0	476.6	477.3	477.3	476.8	476.3	475.8	475.3	475.3
167.5°	482.8	483.5	484.0	484.5	485.0	485.0	484.5	484.0	483.5	482.8	482.8
170°	487.0	487.6	488.2	488.8	489.4	489.4	488.8	488.2	487.6	487.0	487.0
172.5°	490.1	490.7	491.3	491.9	492.5	492.5	492.0	491.5	490.9	490.3	490.3
175°	493.6	494.2	494.8	495.4	496.0	496.0	495.5	495.0	494.5	494.0	494.0
177.5°	495.4	495.9	496.5	496.9	497.4	497.4	497.1	496.6	496.2	495.8	495.8
180°	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7



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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	3.9	3.0	2.2	1.3	0.4	1.3	2.2	3.0
92.5°	13.7	13.1	12.4	11.8	11.2	10.6	10.1	9.5	10.1	10.6	11.2
95°	27.5	26.8	26.1	25.5	24.9	24.2	23.6	23.0	23.6	24.2	24.9
97.5°	44.2	43.7	43.1	42.7	42.3	41.8	41.3	40.9	41.3	41.8	42.3
100°	56.5	56.1	55.6	55.1	54.6	54.1	53.6	53.0	53.6	54.1	54.6
102.5°	69.9	69.4	68.8	68.4	68.0	67.8	67.4	67.1	67.4	67.8	68.0
105°	90.5	89.7	88.9	88.5	88.3	88.2	88.0	87.8	88.0	88.2	88.3
107.5°	113.0	112.8	112.4	112.3	112.1	112.0	111.9	111.8	111.9	112.0	112.1
110°	128.0	127.9	127.7	127.5	127.3	127.2	127.0	126.8	127.0	127.2	127.3



TEST NUMBER: P332121-935

CATALOG NUMBER: S123DIW-S560D460U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	143.0	142.9	142.9	142.8	142.8	142.7	142.5	142.4	142.5	142.7	142.8
115°	166.6	166.8	166.9	166.9	166.6	166.3	166.1	165.8	166.1	166.3	166.6
117.5°	189.6	189.9	190.0	190.1	189.9	189.8	189.6	189.4	189.6	189.8	189.9
120°	205.3	205.8	206.2	206.1	205.6	205.1	204.6	204.1	204.6	205.1	205.6
122.5°	220.5	220.8	220.9	220.8	220.5	220.2	219.7	219.4	219.7	220.2	220.5
125°	243.4	243.6	243.7	243.7	243.5	243.2	243.0	242.7	243.0	243.2	243.5
127.5°	266.2	266.5	266.7	266.5	265.9	265.4	264.8	264.2	264.8	265.4	265.9
130°	281.0	281.3	281.5	281.4	280.7	280.0	279.3	278.6	279.3	280.0	280.7
132.5°	295.6	295.8	296.0	295.8	295.1	294.4	293.6	292.9	293.6	294.4	295.1
135°	317.0	317.1	317.2	316.9	316.4	315.9	315.4	314.9	315.4	315.9	316.4
137.5°	337.7	337.4	337.3	336.9	336.5	336.0	335.6	335.2	335.6	336.0	336.5
140°	351.4	351.3	351.2	350.9	350.5	350.1	349.7	349.2	349.7	350.1	350.5
142.5°	364.4	364.2	364.0	363.8	363.3	362.9	362.5	362.1	362.5	362.9	363.3
145°	383.4	383.1	382.9	382.7	382.5	382.4	382.2	382.0	382.2	382.4	382.5
147.5°	401.5	401.2	401.0	400.7	400.4	400.1	399.8	399.5	399.8	400.1	400.4
150°	412.8	412.7	412.5	412.3	412.2	412.0	411.8	411.6	411.8	412.0	412.2
152.5°	423.0	422.8	422.8	422.6	422.3	422.1	421.9	421.6	421.9	422.1	422.3
155°	437.6	437.6	437.5	437.4	437.4	437.4	437.4	437.4	437.4	437.4	437.4
157.5°	450.6	450.5	450.4	450.4	450.5	450.6	450.7	450.8	450.7	450.6	450.5
160°	458.5	458.5	458.5	458.6	458.7	458.9	459.1	459.3	459.1	458.9	458.7
162.5°	465.8	465.7	465.7	465.8	466.0	466.2	466.5	466.7	466.5	466.2	466.0
165°	475.3	475.3	475.3	475.4	475.6	475.9	476.1	476.4	476.1	475.9	475.6
167.5°	482.8	482.7	482.6	482.8	483.1	483.5	483.8	484.1	483.8	483.5	483.1
170°	487.0	487.0	487.0	487.2	487.5	487.8	488.2	488.5	488.2	487.8	487.5
172.5°	490.3	490.3	490.3	490.5	490.9	491.3	491.6	492.0	491.6	491.3	490.9
175°	494.0	494.0	494.0	494.1	494.5	494.8	495.2	495.5	495.2	494.8	494.5
177.5°	495.8	495.8	495.8	495.9	496.2	496.5	496.7	497.1	496.7	496.5	496.2
180°	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7



TEST NUMBER: P332121-935

CATALOG NUMBER: S123DIW-S560D460U935-4F0-1E-UDD-A1

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	7.1	7.1	7.9	7.0
90°	3.9	4.8	5.9	7.1	8.3	9.4	9.7	10.1	10.4	10.8	11.0
92.5°	11.8	12.4	13.1	13.7	14.4	15.0	15.2	15.5	15.8	16.1	16.2
95°	25.5	26.1	26.8	27.5	28.2	28.8	29.2	29.5	29.9	30.2	30.4
97.5°	42.7	43.1	43.7	44.2	44.7	45.2	45.5	46.0	46.4	46.8	46.9
100°	55.1	55.6	56.1	56.5	56.9	57.3	57.6	57.9	58.1	58.4	58.6
102.5°	68.4	68.8	69.4	69.9	70.5	71.1	71.4	71.6	71.9	72.2	72.2
105°	88.5	88.9	89.7	90.5	91.3	92.0	92.0	92.0	92.0	92.0	92.1
107.5°	112.3	112.4	112.8	113.0	113.4	113.7	114.0	114.3	114.5	114.8	114.9
110°	127.5	127.7	127.9	128.0	128.2	128.4	128.7	129.1	129.4	129.8	129.8



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	142.8	142.9	142.9	143.0	143.0	143.0	143.4	143.9	144.3	144.7	144.9
115°	166.9	166.9	166.8	166.6	166.4	166.3	166.3	166.4	166.5	166.6	166.6
117.5°	190.1	190.0	189.9	189.6	189.4	189.2	189.2	189.2	189.1	189.1	189.0
120°	206.1	206.2	205.8	205.3	204.9	204.5	204.4	204.3	204.2	204.1	204.0
122.5°	220.8	220.9	220.8	220.5	220.3	220.1	219.8	219.6	219.4	219.1	219.0
125°	243.7	243.7	243.6	243.4	243.2	243.1	242.7	242.4	242.0	241.7	241.3
127.5°	266.5	266.7	266.5	266.2	266.0	265.9	265.4	264.9	264.4	263.9	263.5
130°	281.4	281.5	281.3	281.0	280.8	280.5	280.2	279.8	279.5	279.1	278.7
132.5°	295.8	296.0	295.8	295.6	295.4	295.2	294.8	294.4	293.9	293.5	293.1
135°	316.9	317.2	317.1	317.0	316.9	316.8	316.5	316.2	315.8	315.5	315.2
137.5°	336.9	337.3	337.4	337.7	337.9	338.1	337.8	337.4	337.1	336.7	336.3
140°	350.9	351.2	351.3	351.4	351.5	351.5	351.5	351.4	351.3	351.2	350.9
142.5°	363.8	364.0	364.2	364.4	364.5	364.6	364.5	364.5	364.4	364.3	364.0
145°	382.7	382.9	383.1	383.4	383.7	383.9	383.8	383.7	383.7	383.6	383.4
147.5°	400.7	401.0	401.2	401.5	401.7	402.0	402.0	402.0	402.0	402.0	401.7
150°	412.3	412.5	412.7	412.8	413.0	413.2	413.2	413.2	413.2	413.2	412.9
152.5°	422.6	422.8	422.8	423.0	423.1	423.2	423.4	423.4	423.6	423.8	423.6
155°	437.4	437.5	437.6	437.6	437.7	437.8	438.2	438.5	438.9	439.2	439.0
157.5°	450.4	450.4	450.5	450.6	450.6	450.6	451.0	451.4	451.8	452.1	452.0
160°	458.6	458.5	458.5	458.5	458.5	458.5	458.9	459.3	459.8	460.2	460.2
162.5°	465.8	465.7	465.7	465.8	465.9	466.0	466.4	466.8	467.3	467.7	467.6
165°	475.4	475.3	475.3	475.3	475.3	475.3	475.8	476.3	476.8	477.3	477.3
167.5°	482.8	482.6	482.7	482.8	482.8	482.8	483.5	484.0	484.5	485.0	485.0
170°	487.2	487.0	487.0	487.0	487.0	487.0	487.6	488.2	488.8	489.4	489.4
172.5°	490.5	490.3	490.3	490.3	490.3	490.3	490.9	491.5	492.0	492.5	492.5
175°	494.1	494.0	494.0	494.0	494.0	494.0	494.5	495.0	495.5	496.0	496.0
177.5°	495.9	495.8	495.8	495.8	495.8	495.8	496.2	496.6	497.1	497.4	497.4
180°	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7



TEST NUMBER: P332121-935

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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	7.1	6.8	6.5	6.8	7.1	7.0	7.0	7.9	7.1	7.1
90°	11.2	11.4	11.5	11.7	11.5	11.4	11.2	11.0	10.8	10.4	10.1
92.5°	16.1	15.9	15.8	15.8	15.8	15.9	16.1	16.2	16.1	15.8	15.5
95°	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.2	29.9	29.5
97.5°	46.9	46.9	46.8	46.8	46.8	46.9	46.9	46.9	46.8	46.4	46.0
100°	58.8	59.0	59.2	59.3	59.2	59.0	58.8	58.6	58.4	58.1	57.9
102.5°	72.2	72.2	72.2	72.1	72.2	72.2	72.2	72.2	72.2	71.9	71.6
105°	92.4	92.6	92.7	92.9	92.7	92.6	92.4	92.1	92.0	92.0	92.0
107.5°	114.8	114.7	114.6	114.5	114.6	114.7	114.8	114.9	114.8	114.5	114.3
110°	129.7	129.5	129.3	129.2	129.3	129.5	129.7	129.8	129.8	129.4	129.1



TEST NUMBER: P332121-935

CATALOG NUMBER: S123DIW-S560D460U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	144.8	144.8	144.8	144.7	144.8	144.8	144.8	144.9	144.7	144.3	143.9
115°	166.5	166.4	166.3	166.3	166.3	166.4	166.5	166.6	166.6	166.5	166.4
117.5°	188.7	188.5	188.2	188.0	188.2	188.5	188.7	189.0	189.1	189.1	189.2
120°	203.8	203.6	203.5	203.3	203.5	203.6	203.8	204.0	204.1	204.2	204.3
122.5°	218.7	218.4	218.2	217.9	218.2	218.4	218.7	219.0	219.1	219.4	219.6
125°	241.0	240.6	240.3	240.0	240.3	240.6	241.0	241.3	241.7	242.0	242.4
127.5°	263.1	262.7	262.3	261.9	262.3	262.7	263.1	263.5	263.9	264.4	264.9
130°	278.1	277.5	276.9	276.2	276.9	277.5	278.1	278.7	279.1	279.5	279.8
132.5°	292.7	292.1	291.7	291.2	291.7	292.1	292.7	293.1	293.5	293.9	294.4
135°	315.0	314.9	314.7	314.5	314.7	314.9	315.0	315.2	315.5	315.8	316.2
137.5°	336.0	335.7	335.4	335.0	335.4	335.7	336.0	336.3	336.7	337.1	337.4
140°	350.3	349.7	349.0	348.4	349.0	349.7	350.3	350.9	351.2	351.3	351.4
142.5°	363.6	363.1	362.7	362.1	362.7	363.1	363.6	364.0	364.3	364.4	364.5
145°	383.1	382.7	382.4	382.0	382.4	382.7	383.1	383.4	383.6	383.7	383.7
147.5°	401.2	400.6	400.1	399.6	400.1	400.6	401.2	401.7	402.0	402.0	402.0
150°	412.4	411.9	411.4	410.9	411.4	411.9	412.4	412.9	413.2	413.2	413.2
152.5°	423.2	422.7	422.2	421.8	422.2	422.7	423.2	423.6	423.8	423.6	423.4
155°	438.4	437.8	437.2	436.6	437.2	437.8	438.4	439.0	439.2	438.9	438.5
157.5°	451.6	451.1	450.6	450.1	450.6	451.1	451.6	452.0	452.1	451.8	451.4
160°	459.9	459.5	459.2	458.8	459.2	459.5	459.9	460.2	460.2	459.8	459.3
162.5°	467.1	466.5	466.0	465.4	466.0	466.5	467.1	467.6	467.7	467.3	466.8
165°	476.6	476.0	475.4	474.8	475.4	476.0	476.6	477.3	477.3	476.8	476.3
167.5°	484.5	484.0	483.5	482.8	483.5	484.0	484.5	485.0	485.0	484.5	484.0
170°	488.8	488.2	487.6	487.0	487.6	488.2	488.8	489.4	489.4	488.8	488.2
172.5°	491.9	491.3	490.7	490.1	490.7	491.3	491.9	492.5	492.5	492.0	491.5
175°	495.4	494.8	494.2	493.6	494.2	494.8	495.4	496.0	496.0	495.5	495.0
177.5°	496.9	496.5	495.9	495.4	495.9	496.5	496.9	497.4	497.4	497.1	496.6
180°	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7



TEST NUMBER: P332121-935

CATALOG NUMBER: S123DIW-S560D460U935-4F0-1E-UDD-A1

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°	9.7	9.4	8.3	7.1	5.9	4.8	3.9	3.0	2.2	1.3	0.4
92.5°	15.2	15.0	14.4	13.7	13.1	12.4	11.8	11.2	10.6	10.1	9.5
95°	29.2	28.8	28.2	27.5	26.8	26.1	25.5	24.9	24.2	23.6	23.0
97.5°	45.5	45.2	44.7	44.2	43.7	43.1	42.7	42.3	41.8	41.3	40.9
100°	57.6	57.3	56.9	56.5	56.1	55.6	55.1	54.6	54.1	53.6	53.0
102.5°	71.4	71.1	70.5	69.9	69.4	68.8	68.4	68.0	67.8	67.4	67.1
105°	92.0	92.0	91.3	90.5	89.7	88.9	88.5	88.3	88.2	88.0	87.8
107.5°	114.0	113.7	113.4	113.0	112.8	112.4	112.3	112.1	112.0	111.9	111.8
110°	128.7	128.4	128.2	128.0	127.9	127.7	127.5	127.3	127.2	127.0	126.8



TEST NUMBER: P332121-935

CATALOG NUMBER: S123DIW-S560D460U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	143.4	143.0	143.0	143.0	142.9	142.9	142.8	142.8	142.7	142.5	142.4
115°	166.3	166.3	166.4	166.6	166.8	166.9	166.9	166.6	166.3	166.1	165.8
117.5°	189.2	189.2	189.4	189.6	189.9	190.0	190.1	189.9	189.8	189.6	189.4
120°	204.4	204.5	204.9	205.3	205.8	206.2	206.1	205.6	205.1	204.6	204.1
122.5°	219.8	220.1	220.3	220.5	220.8	220.9	220.8	220.5	220.2	219.7	219.4
125°	242.7	243.1	243.2	243.4	243.6	243.7	243.7	243.5	243.2	243.0	242.7
127.5°	265.4	265.9	266.0	266.2	266.5	266.7	266.5	265.9	265.4	264.8	264.2
130°	280.2	280.5	280.8	281.0	281.3	281.5	281.4	280.7	280.0	279.3	278.6
132.5°	294.8	295.2	295.4	295.6	295.8	296.0	295.8	295.1	294.4	293.6	292.9
135°	316.5	316.8	316.9	317.0	317.1	317.2	316.9	316.4	315.9	315.4	314.9
137.5°	337.8	338.1	337.9	337.7	337.4	337.3	336.9	336.5	336.0	335.6	335.2
140°	351.5	351.5	351.5	351.4	351.3	351.2	350.9	350.5	350.1	349.7	349.2
142.5°	364.5	364.6	364.5	364.4	364.2	364.0	363.8	363.3	362.9	362.5	362.1
145°	383.8	383.9	383.7	383.4	383.1	382.9	382.7	382.5	382.4	382.2	382.0
147.5°	402.0	402.0	401.7	401.5	401.2	401.0	400.7	400.4	400.1	399.8	399.5
150°	413.2	413.2	413.0	412.8	412.7	412.5	412.3	412.2	412.0	411.8	411.6
152.5°	423.4	423.2	423.1	423.0	422.8	422.8	422.6	422.3	422.1	421.9	421.6
155°	438.2	437.8	437.7	437.6	437.6	437.5	437.4	437.4	437.4	437.4	437.4
157.5°	451.0	450.6	450.6	450.6	450.5	450.4	450.4	450.5	450.6	450.7	450.8
160°	458.9	458.5	458.5	458.5	458.5	458.5	458.6	458.7	458.9	459.1	459.3
162.5°	466.4	466.0	465.9	465.8	465.7	465.7	465.8	466.0	466.2	466.5	466.7
165°	475.8	475.3	475.3	475.3	475.3	475.3	475.4	475.6	475.9	476.1	476.4
167.5°	483.5	482.8	482.8	482.8	482.7	482.6	482.8	483.1	483.5	483.8	484.1
170°	487.6	487.0	487.0	487.0	487.0	487.0	487.2	487.5	487.8	488.2	488.5
172.5°	490.9	490.3	490.3	490.3	490.3	490.3	490.5	490.9	491.3	491.6	492.0
175°	494.5	494.0	494.0	494.0	494.0	494.0	494.1	494.5	494.8	495.2	495.5
177.5°	496.2	495.8	495.8	495.8	495.8	495.8	495.9	496.2	496.5	496.7	497.1
180°	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7



TEST NUMBER: P332121-935

CATALOG NUMBER: S123DIW-S560D460U935-4F0-1E-UDD-A1

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	10.7	10.4
90°	1.3	2.2	3.0	3.9	4.8	5.9	7.1	8.3	9.4	9.7	10.1
92.5°	10.1	10.6	11.2	11.8	12.4	13.1	13.7	14.4	15.0	15.2	15.5
95°	23.6	24.2	24.9	25.5	26.1	26.8	27.5	28.2	28.8	29.2	29.5
97.5°	41.3	41.8	42.3	42.7	43.1	43.7	44.2	44.7	45.2	45.5	46.0
100°	53.6	54.1	54.6	55.1	55.6	56.1	56.5	56.9	57.3	57.6	57.9
102.5°	67.4	67.8	68.0	68.4	68.8	69.4	69.9	70.5	71.1	71.4	71.6
105°	88.0	88.2	88.3	88.5	88.9	89.7	90.5	91.3	92.0	92.0	92.0
107.5°	111.9	112.0	112.1	112.3	112.4	112.8	113.0	113.4	113.7	114.0	114.3
110°	127.0	127.2	127.3	127.5	127.7	127.9	128.0	128.2	128.4	128.7	129.1



TEST NUMBER: P332121-935

CATALOG NUMBER: S123DIW-S560D460U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	142.5	142.7	142.8	142.8	142.9	142.9	143.0	143.0	143.0	143.4	143.9
115°	166.1	166.3	166.6	166.9	166.9	166.8	166.6	166.4	166.3	166.3	166.4
117.5°	189.6	189.8	189.9	190.1	190.0	189.9	189.6	189.4	189.2	189.2	189.2
120°	204.6	205.1	205.6	206.1	206.2	205.8	205.3	204.9	204.5	204.4	204.3
122.5°	219.7	220.2	220.5	220.8	220.9	220.8	220.5	220.3	220.1	219.8	219.6
125°	243.0	243.2	243.5	243.7	243.7	243.6	243.4	243.2	243.1	242.7	242.4
127.5°	264.8	265.4	265.9	266.5	266.7	266.5	266.2	266.0	265.9	265.4	264.9
130°	279.3	280.0	280.7	281.4	281.5	281.3	281.0	280.8	280.5	280.2	279.8
132.5°	293.6	294.4	295.1	295.8	296.0	295.8	295.6	295.4	295.2	294.8	294.4
135°	315.4	315.9	316.4	316.9	317.2	317.1	317.0	316.9	316.8	316.5	316.2
137.5°	335.6	336.0	336.5	336.9	337.3	337.4	337.7	337.9	338.1	337.8	337.4
140°	349.7	350.1	350.5	350.9	351.2	351.3	351.4	351.5	351.5	351.5	351.4
142.5°	362.5	362.9	363.3	363.8	364.0	364.2	364.4	364.5	364.6	364.5	364.5
145°	382.2	382.4	382.5	382.7	382.9	383.1	383.4	383.7	383.9	383.8	383.7
147.5°	399.8	400.1	400.4	400.7	401.0	401.2	401.5	401.7	402.0	402.0	402.0
150°	411.8	412.0	412.2	412.3	412.5	412.7	412.8	413.0	413.2	413.2	413.2
152.5°	421.9	422.1	422.3	422.6	422.8	422.8	423.0	423.1	423.2	423.4	423.4
155°	437.4	437.4	437.4	437.4	437.5	437.6	437.6	437.7	437.8	438.2	438.5
157.5°	450.7	450.6	450.5	450.4	450.4	450.5	450.6	450.6	450.6	451.0	451.4
160°	459.1	458.9	458.7	458.6	458.5	458.5	458.5	458.5	458.5	458.9	459.3
162.5°	466.5	466.2	466.0	465.8	465.7	465.7	465.8	465.9	466.0	466.4	466.8
165°	476.1	475.9	475.6	475.4	475.3	475.3	475.3	475.3	475.3	475.8	476.3
167.5°	483.8	483.5	483.1	482.8	482.6	482.7	482.8	482.8	482.8	483.5	484.0
170°	488.2	487.8	487.5	487.2	487.0	487.0	487.0	487.0	487.0	487.6	488.2
172.5°	491.6	491.3	490.9	490.5	490.3	490.3	490.3	490.3	490.3	490.9	491.5
175°	495.2	494.8	494.5	494.1	494.0	494.0	494.0	494.0	494.0	494.5	495.0
177.5°	496.7	496.5	496.2	495.9	495.8	495.8	495.8	495.8	495.8	496.2	496.6
180°	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7



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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	9.7	10.2
90°	10.4	10.8	11.0	11.2	11.4	11.5	11.7
92.5°	15.8	16.1	16.2	16.1	15.9	15.8	15.8
95°	29.9	30.2	30.4	30.4	30.4	30.4	30.4
97.5°	46.4	46.8	46.9	46.9	46.9	46.8	46.8
100°	58.1	58.4	58.6	58.8	59.0	59.2	59.3
102.5°	71.9	72.2	72.2	72.2	72.2	72.2	72.1
105°	92.0	92.0	92.1	92.4	92.6	92.7	92.9
107.5°	114.5	114.8	114.9	114.8	114.7	114.6	114.5
110°	129.4	129.8	129.8	129.7	129.5	129.3	129.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	144.3	144.7	144.9	144.8	144.8	144.8	144.7
115°	166.5	166.6	166.6	166.5	166.4	166.3	166.3
117.5°	189.1	189.1	189.0	188.7	188.5	188.2	188.0
120°	204.2	204.1	204.0	203.8	203.6	203.5	203.3
122.5°	219.4	219.1	219.0	218.7	218.4	218.2	217.9
125°	242.0	241.7	241.3	241.0	240.6	240.3	240.0
127.5°	264.4	263.9	263.5	263.1	262.7	262.3	261.9
130°	279.5	279.1	278.7	278.1	277.5	276.9	276.2
132.5°	293.9	293.5	293.1	292.7	292.1	291.7	291.2
135°	315.8	315.5	315.2	315.0	314.9	314.7	314.5
137.5°	337.1	336.7	336.3	336.0	335.7	335.4	335.0
140°	351.3	351.2	350.9	350.3	349.7	349.0	348.4
142.5°	364.4	364.3	364.0	363.6	363.1	362.7	362.1
145°	383.7	383.6	383.4	383.1	382.7	382.4	382.0
147.5°	402.0	402.0	401.7	401.2	400.6	400.1	399.6
150°	413.2	413.2	412.9	412.4	411.9	411.4	410.9
152.5°	423.6	423.8	423.6	423.2	422.7	422.2	421.8
155°	438.9	439.2	439.0	438.4	437.8	437.2	436.6
157.5°	451.8	452.1	452.0	451.6	451.1	450.6	450.1
160°	459.8	460.2	460.2	459.9	459.5	459.2	458.8
162.5°	467.3	467.7	467.6	467.1	466.5	466.0	465.4
165°	476.8	477.3	477.3	476.6	476.0	475.4	474.8
167.5°	484.5	485.0	485.0	484.5	484.0	483.5	482.8
170°	488.8	489.4	489.4	488.8	488.2	487.6	487.0
172.5°	492.0	492.5	492.5	491.9	491.3	490.7	490.1
175°	495.5	496.0	496.0	495.4	494.8	494.2	493.6
177.5°	497.1	497.4	497.4	496.9	496.5	495.9	495.4
180°	496.7	496.7	496.7	496.7	496.7	496.7	496.7

(END OF REPORT)