

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: P331928-930

Luminaire Tested: **S123DIP-S560D805U930-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331928-930
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: S123DIP-S560D805U930-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 805 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4563.9 lumens
Efficiency: N/A
Efficacy: 118.9 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

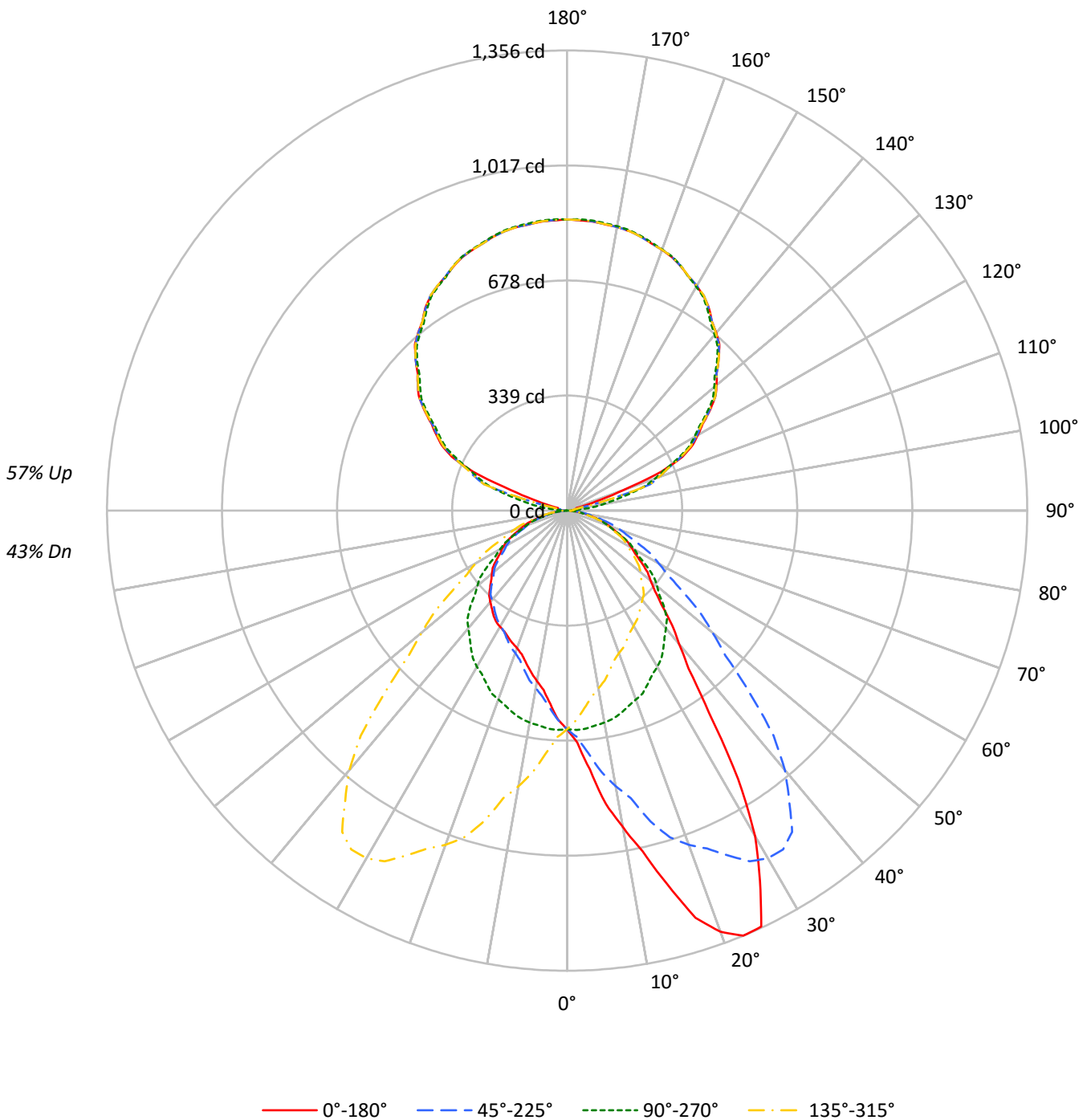
Input Watts (W): 38.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	105	105	105	105	96	96	96	96	79	79	79	64	64	64	49	49	49	43				
1	96	92	88	85	88	84	81	78	70	68	65	56	55	53	44	43	42	36				
2	88	81	75	70	80	74	69	65	61	58	55	50	47	45	39	37	36	31				
3	80	71	64	58	73	65	59	54	54	50	46	44	41	38	35	33	31	26				
4	74	63	55	49	67	58	51	46	48	43	39	39	36	33	31	29	27	23				
5	67	56	48	42	61	52	45	40	43	38	34	35	32	29	28	25	23	20				
6	62	50	42	37	57	46	39	34	39	34	30	32	28	25	25	23	20	17				
7	57	45	38	32	52	42	35	30	35	30	26	29	25	22	23	20	18	16				
8	53	41	34	28	49	38	31	27	32	27	23	27	23	20	21	18	16	14				
9	50	38	30	25	45	35	28	24	29	24	21	24	21	18	20	17	15	13				
10	46	34	27	23	42	32	26	21	27	22	19	23	19	16	18	15	13	11				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6937	6937	6937	6937
5°	8272	6967	6174	6967
10°	10355	6932	5576	6932
15°	12700	6876	5192	6876
20°	15131	6788	4943	6788
25°	16066	6683	4888	6683
30°	13770	6606	4913	6606
35°	9577	6495	4964	6495
40°	7213	6367	4949	6367
45°	5990	6174	4886	6174
50°	5365	5784	4843	5784
55°	5016	5362	4782	5362
60°	4706	4921	4732	4921
65°	4422	4485	4582	4485
70°	4148	3991	4362	3991
75°	3714	3493	4001	3493
80°	3248	2864	3446	2864
85°	2544	2087	2322	2087



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.5	1.4
10°-20°	203.6	4.5
20°-30°	341.7	7.5
30°-40°	386.9	8.5
40°-50°	346.9	7.6
50°-60°	280.0	6.1
60°-70°	195.1	4.3
70°-80°	102.5	2.2
80°-90°	27.5	0.6
90°-100°	31.2	0.7
100°-110°	148.7	3.3
110°-120°	357.1	7.8
120°-130°	454.7	10.0
130°-140°	485.8	10.6
140°-150°	454.3	10.0
150°-160°	366.5	8.0
160°-170°	236.5	5.2
170°-180°	81.5	1.8
0°-30°	608.7	13.3
0°-40°	995.6	21.8
0°-60°	1622.5	35.6
0°-90°	1947.6	42.7
90°-120°	536.9	11.8
90°-150°	1931.8	42.3
90°-180°	2616.0	57.3
0°-180°	4563.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	644	644	644	644	644	
5°	766	645	571	645	766	79
15°	1140	617	466	617	1140	329
25°	1353	563	412	563	1353	593
35°	729	494	378	494	729	473
45°	394	406	321	406	394	311
55°	267	286	255	286	267	240
65°	174	176	180	176	174	173
75°	89	84	96	84	89	96
85°	21	17	19	17	21	25
90°	19	1	19	1	19	10
95°	24	39	24	39	24	20
105°	28	190	28	190	28	64
115°	375	356	375	356	375	346
125°	512	502	512	502	512	458
135°	632	625	632	625	632	487
145°	729	722	729	722	729	455
155°	794	795	794	795	794	366
165°	836	838	836	838	836	236
175°	855	858	855	858	855	81
180°	858	858	858	858	858	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5
2.5°	684.0	683.5	682.2	683.2	681.2	678.5	678.2	675.7	668.5	668.0	666.0
5°	765.6	763.1	762.9	762.5	758.1	752.2	740.9	740.0	725.0	717.5	708.5
7.5°	871.5	872.8	868.2	864.2	850.8	842.0	830.0	814.6	796.1	777.5	765.0
10°	947.4	957.7	944.9	936.1	928.1	912.7	895.0	872.8	850.6	824.7	805.0
12.5°	1028.8	1033.9	1031.4	1023.0	1010.5	987.2	955.6	931.2	910.8	867.6	850.2
15°	1139.7	1158.8	1146.6	1118.5	1119.2	1097.0	1055.7	1010.5	986.4	948.6	897.1
17.5°	1257.9	1260.3	1255.1	1231.7	1216.0	1185.6	1147.5	1104.2	1055.4	1009.7	955.0
20°	1320.9	1319.0	1308.1	1295.8	1269.0	1245.3	1203.7	1155.4	1092.9	1047.9	988.3
22.5°	1355.8	1352.7	1347.5	1337.3	1315.0	1289.5	1252.2	1199.3	1139.9	1077.9	1009.0
25°	1352.7	1356.7	1357.4	1354.5	1346.8	1331.5	1302.1	1260.0	1200.6	1121.0	1049.2
27.5°	1230.3	1236.0	1252.7	1267.5	1284.1	1300.9	1298.7	1277.7	1233.9	1165.1	1077.3
30°	1107.9	1095.4	1126.3	1165.3	1191.9	1238.7	1264.9	1266.5	1241.9	1182.8	1097.2
32.5°	938.0	951.8	965.4	1013.4	1071.5	1124.1	1176.2	1218.3	1223.1	1183.8	1109.0
35°	728.8	746.0	770.9	796.0	858.4	912.1	1003.9	1083.9	1147.5	1155.9	1110.0
37.5°	587.3	595.8	611.6	636.6	677.4	741.2	812.2	913.2	1005.5	1074.2	1077.2
40°	513.3	515.8	533.6	552.7	585.8	638.2	702.3	791.6	902.1	998.0	1038.0
42.5°	457.9	463.4	470.9	489.3	515.6	555.1	614.6	688.4	789.7	900.0	978.2
45°	393.5	399.7	404.4	416.5	435.3	461.8	503.4	570.8	647.9	761.9	867.2
47.5°	350.8	351.3	354.8	364.0	376.7	396.7	426.1	469.4	540.2	632.6	740.7
50°	320.4	325.4	326.6	333.8	343.8	358.5	382.9	419.6	477.8	559.0	658.3
52.5°	298.9	300.4	303.9	309.1	317.8	329.2	350.3	379.2	424.8	494.0	585.3
55°	267.3	267.3	270.8	274.8	279.8	290.1	304.1	325.4	360.0	413.8	489.3
57.5°	238.1	239.6	242.1	243.3	247.5	254.4	266.1	282.3	308.1	349.4	409.5
60°	218.6	221.4	221.1	223.6	227.3	232.6	242.6	255.8	278.8	311.9	362.6
62.5°	201.6	201.4	201.4	204.3	208.1	213.1	219.6	231.0	250.6	280.0	323.0
65°	173.6	173.0	175.2	177.1	178.3	182.1	187.0	197.1	210.2	232.0	265.4
67.5°	148.8	146.9	148.1	148.8	150.9	153.8	158.5	164.7	175.1	192.7	217.8
70°	131.8	130.2	129.9	130.5	132.4	134.6	138.0	144.0	153.6	167.7	186.1
72.5°	114.3	113.2	113.2	114.5	115.4	116.8	119.3	124.7	132.4	142.9	160.1
75°	89.3	89.3	89.3	89.6	90.6	91.8	93.7	96.4	102.4	109.9	121.5
77.5°	66.9	66.9	66.5	66.4	67.8	68.4	68.8	71.4	74.8	79.8	88.2
80°	52.4	50.9	51.5	52.4	53.1	53.4	54.3	55.0	57.8	60.6	66.5
82.5°	39.0	37.7	37.7	39.2	39.4	39.6	40.6	41.5	42.6	45.1	48.3
85°	20.6	20.6	21.0	21.0	21.2	21.0	21.9	22.2	22.2	23.7	25.6
87.5°	11.3	10.8	10.9	11.2	10.8	11.0	11.2	11.3	11.4	11.6	11.4
90°	19.2	18.8	18.6	18.3	18.0	17.5	17.0	16.5	15.9	15.3	13.5
92.5°	21.2	21.0	20.8	20.6	20.5	20.0	19.0	18.1	17.2	16.3	14.9
95°	24.2	24.2	24.2	24.2	24.2	23.7	22.7	21.8	20.8	19.7	18.2
97.5°	26.3	26.1	26.0	25.8	25.7	25.0	23.9	22.8	21.7	20.5	30.7
100°	26.7	26.7	26.5	26.3	26.2	25.6	24.5	23.3	22.2	21.0	43.1
102.5°	27.3	27.0	26.7	26.5	26.3	27.9	31.4	34.9	38.4	41.9	66.0
105°	28.0	27.8	27.5	27.2	26.9	39.3	64.4	89.4	114.5	139.6	152.3
107.5°	88.1	107.0	125.9	144.8	163.6	182.3	200.7	219.1	237.5	255.8	253.8
110°	175.3	195.5	215.8	236.0	256.3	268.8	273.5	278.1	282.8	287.5	285.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	300.8	305.0	309.2	313.6	317.8	319.9	319.8	319.8	319.7	319.6	318.0
115°	374.8	374.2	373.7	373.1	372.5	371.5	370.1	368.7	367.3	365.9	364.6
117.5°	416.4	416.2	416.1	416.0	415.9	415.2	414.2	413.0	411.9	410.7	410.1
120°	444.9	444.9	444.9	444.9	444.9	444.3	443.2	442.1	440.9	439.8	439.4
122.5°	473.0	472.9	472.7	472.6	472.5	472.1	471.2	470.4	469.7	468.9	468.3
125°	512.5	512.2	511.9	511.6	511.4	511.0	510.8	510.5	510.2	509.9	509.3
127.5°	550.5	550.7	551.1	551.3	551.5	551.5	551.1	550.6	550.2	549.7	549.0
130°	574.9	575.2	575.5	575.8	576.1	575.9	575.4	574.8	574.2	573.6	573.1
132.5°	597.4	597.8	598.2	598.6	598.9	598.8	598.3	597.7	597.2	596.6	596.1
135°	631.7	632.1	632.5	632.9	633.3	633.3	632.9	632.5	632.1	631.7	631.1
137.5°	663.9	664.2	664.5	664.8	665.0	664.9	664.1	663.5	662.8	662.1	661.8
140°	683.3	683.5	683.9	684.1	684.4	684.3	683.7	683.1	682.6	682.0	681.6
142.5°	701.2	701.6	701.9	702.3	702.7	702.7	702.2	701.8	701.3	700.9	700.4
145°	728.6	728.6	728.6	728.6	728.6	728.4	728.1	727.8	727.6	727.2	727.0
147.5°	748.9	749.6	750.2	750.9	751.5	751.7	751.5	751.1	750.9	750.6	750.3
150°	764.3	764.7	765.1	765.5	766.0	766.0	765.7	765.4	765.2	764.9	764.6
152.5°	776.5	777.1	777.8	778.4	779.1	779.2	778.6	778.1	777.6	777.1	777.0
155°	793.5	794.4	795.2	796.1	797.0	797.0	796.3	795.7	794.9	794.2	794.0
157.5°	808.0	809.1	810.2	811.3	812.4	812.5	811.6	810.8	810.0	809.1	809.3
160°	817.2	818.2	819.1	820.1	821.1	821.2	820.4	819.5	818.6	817.7	817.9
162.5°	825.8	826.7	827.5	828.4	829.3	829.2	828.3	827.4	826.4	825.4	825.6
165°	836.3	837.2	838.2	839.3	840.2	840.2	839.0	837.9	836.7	835.6	835.8
167.5°	843.8	844.9	846.0	847.2	848.3	848.3	847.2	846.0	844.9	843.8	843.8
170°	848.4	849.5	850.6	851.7	852.9	852.9	851.7	850.6	849.5	848.4	848.4
172.5°	850.9	852.2	853.5	854.7	855.9	856.0	854.8	853.7	852.6	851.4	851.3
175°	854.8	855.9	857.0	858.2	859.2	859.3	858.3	857.4	856.4	855.4	855.2
177.5°	855.9	857.0	858.2	859.3	860.5	860.5	859.7	858.8	857.9	856.9	856.8
180°	857.9	857.9	857.9	857.9	857.9	857.9	857.9	857.9	857.9	857.9	857.9



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5
2.5°	664.5	662.5	660.5	657.0	654.0	649.7	648.5	647.0	642.5	638.5	635.5
5°	705.1	697.6	686.6	676.6	668.5	657.6	651.3	644.8	635.4	627.0	620.1
7.5°	747.5	732.8	715.8	697.5	680.4	663.8	650.5	638.7	625.6	613.1	603.5
10°	781.3	760.0	736.3	710.7	688.8	667.6	649.8	634.2	617.3	602.7	590.4
12.5°	819.7	788.2	755.5	724.4	698.5	669.1	647.6	627.7	608.6	590.9	577.2
15°	865.3	825.3	786.6	743.8	704.4	667.6	642.0	617.0	594.8	576.7	559.2
17.5°	906.7	861.4	810.4	758.4	710.9	667.2	631.4	603.2	575.4	553.3	535.8
20°	930.2	878.6	820.9	766.9	714.4	665.7	626.4	592.6	562.7	539.2	519.6
22.5°	950.5	890.1	830.4	772.7	714.2	661.7	617.2	582.4	549.9	527.0	506.1
25°	971.4	899.3	839.4	771.6	706.3	652.0	602.0	562.7	530.2	503.4	481.8
27.5°	989.4	898.7	827.5	754.6	694.0	639.5	586.2	544.0	509.5	480.3	458.4
30°	1001.4	899.9	815.3	743.1	682.0	625.7	573.9	531.5	495.2	465.5	445.0
32.5°	1008.9	899.2	804.0	727.2	663.0	613.3	560.7	516.7	479.5	450.4	430.5
35°	1013.3	893.6	784.7	694.1	632.3	583.9	539.9	494.3	455.3	428.1	405.6
37.5°	1004.5	882.2	762.2	662.3	594.6	547.0	509.9	471.1	433.7	403.8	384.4
40°	990.8	874.7	744.7	639.8	568.6	522.7	491.2	453.1	416.2	387.8	369.7
42.5°	964.6	859.4	725.5	614.8	541.6	495.7	466.7	434.9	400.0	373.3	355.2
45°	900.6	826.2	696.7	577.4	501.8	454.4	428.8	405.6	374.1	348.1	332.6
47.5°	811.7	776.3	654.9	537.9	460.2	414.6	387.9	369.3	346.3	325.4	310.4
50°	750.1	735.4	626.7	510.9	432.4	387.8	362.2	345.4	328.8	307.9	294.2
52.5°	678.8	687.9	593.7	482.9	404.2	360.4	336.2	322.9	307.9	290.7	278.7
55°	578.6	611.4	536.8	435.9	362.2	320.4	297.6	285.7	277.0	264.2	253.9
57.5°	484.8	526.4	475.2	387.5	320.9	284.9	263.0	250.1	244.4	237.7	229.7
60°	429.0	470.3	431.2	355.1	293.2	258.9	239.5	228.6	223.0	218.3	211.4
62.5°	379.4	421.0	388.2	322.0	266.0	234.2	217.3	206.6	202.2	199.7	193.9
65°	311.0	346.9	325.1	270.8	227.0	198.9	183.6	176.1	172.0	171.1	167.4
67.5°	253.2	280.5	264.6	224.5	190.1	165.8	152.9	146.5	143.4	143.1	140.2
70°	215.2	240.8	228.6	192.3	162.7	143.7	132.4	126.8	124.9	124.6	123.0
72.5°	185.6	203.5	193.9	163.6	140.7	123.4	115.1	109.3	107.1	107.6	106.6
75°	137.4	150.8	145.2	124.3	105.8	94.6	87.7	84.0	82.1	83.1	81.8
77.5°	98.9	107.4	102.3	87.8	76.5	68.3	63.3	61.0	59.3	59.2	58.6
80°	74.6	79.7	76.8	68.1	58.7	51.9	47.8	46.2	45.2	45.0	44.7
82.5°	53.2	57.4	54.1	48.1	41.7	37.6	35.3	33.3	32.5	32.7	32.4
85°	26.8	28.5	27.1	23.4	21.0	19.1	17.8	16.9	16.2	16.6	15.9
87.5°	11.6	11.4	10.4	9.0	8.2	7.2	6.9	6.1	5.9	6.2	6.2
90°	11.6	9.8	7.9	6.3	4.9	3.5	2.0	0.7	2.0	3.5	4.9
92.5°	13.5	12.1	10.8	10.3	10.7	11.1	11.5	11.8	11.5	11.1	10.7
95°	16.6	15.1	13.5	15.7	21.4	27.2	33.1	38.9	33.1	27.2	21.4
97.5°	40.9	51.1	61.3	67.8	70.4	73.0	75.6	78.1	75.6	73.0	70.4
100°	65.2	87.3	109.4	119.0	116.2	113.4	110.6	107.7	110.6	113.4	116.2
102.5°	90.2	114.4	138.5	149.5	147.5	145.4	143.4	141.4	143.4	145.4	147.5
105°	165.1	177.8	190.6	196.2	194.6	193.1	191.5	190.0	191.5	193.1	194.6
107.5°	251.8	249.8	247.8	246.1	244.9	243.7	242.5	241.2	242.5	243.7	244.9
110°	284.4	282.8	281.2	279.9	278.8	277.6	276.5	275.3	276.5	277.6	278.8



TEST NUMBER: P331928-930

CATALOG NUMBER: S123DIP-S560D805U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	316.5	315.0	313.3	312.1	311.0	310.1	309.0	308.0	309.0	310.1	311.0
115°	363.3	362.1	360.8	359.7	358.9	358.0	357.2	356.3	357.2	358.0	358.9
117.5°	409.4	408.8	408.1	407.2	406.3	405.2	404.1	403.1	404.1	405.2	406.3
120°	439.0	438.5	438.1	437.2	435.9	434.7	433.4	432.2	433.4	434.7	435.9
122.5°	467.8	467.2	466.7	465.9	464.9	463.8	462.8	461.7	462.8	463.8	464.9
125°	508.7	508.3	507.7	506.8	505.6	504.5	503.4	502.3	503.4	504.5	505.6
127.5°	548.4	547.6	547.0	546.1	544.9	543.8	542.7	541.5	542.7	543.8	544.9
130°	572.5	571.9	571.4	570.5	569.4	568.3	567.1	566.0	567.1	568.3	569.4
132.5°	595.7	595.3	594.8	594.0	592.9	591.7	590.6	589.5	590.6	591.7	592.9
135°	630.6	630.0	629.4	628.7	627.9	627.0	626.1	625.3	626.1	627.0	627.9
137.5°	661.5	661.2	660.9	660.1	659.1	658.0	657.0	655.9	657.0	658.0	659.1
140°	681.2	680.8	680.3	679.7	678.8	678.0	677.1	676.3	677.1	678.0	678.8
142.5°	700.0	699.6	699.2	698.5	697.7	696.8	696.0	695.1	696.0	696.8	697.7
145°	726.7	726.4	726.1	725.5	724.5	723.5	722.5	721.5	722.5	723.5	724.5
147.5°	750.0	749.7	749.5	749.0	748.4	747.7	747.1	746.4	747.1	747.7	748.4
150°	764.3	764.0	763.8	763.4	763.0	762.5	762.1	761.7	762.1	762.5	763.0
152.5°	776.7	776.6	776.4	776.2	776.1	775.8	775.7	775.4	775.7	775.8	776.1
155°	793.9	793.8	793.6	793.7	794.0	794.3	794.6	794.8	794.6	794.3	794.0
157.5°	809.4	809.5	809.7	809.8	809.8	809.8	809.8	809.8	809.8	809.8	809.8
160°	818.1	818.2	818.3	818.5	818.6	818.8	818.9	819.0	818.9	818.8	818.6
162.5°	825.7	825.8	826.0	826.2	826.6	827.0	827.4	827.7	827.4	827.0	826.6
165°	835.9	836.1	836.2	836.5	836.9	837.3	837.7	838.2	837.7	837.3	836.9
167.5°	843.8	843.8	843.8	844.1	844.7	845.2	845.8	846.4	845.8	845.2	844.7
170°	848.4	848.4	848.4	848.6	849.2	849.8	850.4	850.9	850.4	849.8	849.2
172.5°	851.2	851.1	851.0	851.3	851.9	852.6	853.3	853.9	853.3	852.6	851.9
175°	855.1	854.9	854.8	855.1	855.8	856.6	857.2	857.9	857.2	856.6	855.8
177.5°	856.7	856.6	856.5	856.7	857.3	857.9	858.4	858.9	858.4	857.9	857.3
180°	857.9	857.9	857.9	857.9	857.9	857.9	857.9	857.9	857.9	857.9	857.9



TEST NUMBER: P331928-930

CATALOG NUMBER: S123DIP-S560D805U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5
2.5°	633.7	632.0	629.5	625.7	622.7	618.0	618.0	618.7	618.7	618.5	618.0
5°	614.5	609.8	604.2	597.7	590.8	583.9	582.7	580.2	578.3	577.1	575.5
7.5°	594.2	586.0	577.7	568.6	560.2	553.3	548.5	544.5	541.8	539.2	537.1
10°	580.5	570.1	560.5	550.8	540.2	531.7	526.4	522.7	519.9	517.4	516.2
12.5°	564.3	552.4	541.8	532.6	521.0	512.3	507.2	505.5	502.1	496.9	494.2
15°	540.5	529.6	516.8	502.7	497.1	486.5	480.5	477.8	475.9	471.8	470.6
17.5°	520.2	505.9	491.5	481.0	470.6	462.0	458.7	455.2	452.7	449.4	448.4
20°	504.0	491.2	478.1	466.8	455.9	446.5	443.7	441.2	438.7	437.2	435.9
22.5°	487.5	474.7	463.8	453.3	441.6	435.5	432.4	429.7	428.0	426.9	425.7
25°	464.3	453.1	440.9	431.5	422.2	418.1	416.2	414.7	413.4	411.9	411.6
27.5°	443.6	431.4	421.5	412.7	406.0	402.6	400.8	400.1	400.3	400.9	401.2
30°	428.1	416.9	408.7	401.2	395.0	391.9	391.6	391.6	392.8	393.1	393.8
32.5°	413.8	404.6	396.5	389.2	384.5	382.4	383.6	383.6	384.6	385.4	386.5
35°	393.1	385.0	378.8	372.5	368.4	369.4	370.0	370.6	372.2	374.1	375.4
37.5°	373.3	366.3	359.8	354.9	353.0	354.7	356.2	357.5	359.4	360.8	362.0
40°	359.1	353.8	347.6	343.2	343.8	344.7	346.0	347.6	349.1	350.0	351.3
42.5°	345.8	340.3	335.6	331.9	332.8	334.0	334.8	335.6	337.4	339.1	339.8
45°	325.7	321.3	316.9	314.8	315.4	316.0	316.7	317.6	319.1	320.4	320.7
47.5°	303.0	299.9	297.0	294.9	295.9	295.6	296.4	298.5	299.0	299.7	301.4
50°	288.5	285.7	282.3	281.7	281.7	281.7	281.9	284.5	284.5	285.7	287.0
52.5°	272.6	270.8	268.6	267.4	266.9	266.9	268.2	269.5	269.9	271.7	273.0
55°	248.8	247.0	245.2	244.2	243.5	244.2	246.7	247.3	248.8	249.8	250.7
57.5°	224.2	222.7	221.3	220.8	220.6	221.4	222.8	224.7	225.1	228.0	229.3
60°	208.0	205.8	204.6	204.6	203.9	206.7	206.1	209.2	209.9	211.7	213.9
62.5°	191.2	188.3	187.8	187.8	188.7	189.5	190.4	191.8	193.4	195.8	197.4
65°	164.3	162.7	164.9	164.5	164.0	165.8	165.8	167.4	169.3	171.5	174.9
67.5°	138.7	137.9	138.1	138.1	139.0	140.1	141.0	142.4	144.6	146.9	149.1
70°	121.5	122.4	120.8	122.1	123.0	123.4	123.9	125.8	128.3	129.9	132.4
72.5°	104.8	104.7	104.8	105.3	106.3	106.9	107.5	109.6	112.3	113.7	115.7
75°	80.6	80.2	81.2	81.2	82.8	83.4	84.0	85.0	87.4	89.3	90.9
77.5°	58.9	59.2	59.0	60.1	59.7	59.8	61.7	62.6	62.9	66.6	67.4
80°	44.4	45.0	45.2	45.6	45.9	45.2	47.5	48.4	48.4	50.5	52.2
82.5°	31.9	32.2	33.0	33.3	33.4	34.0	34.2	34.9	35.6	36.6	38.6
85°	15.9	16.9	17.2	16.9	17.2	16.6	17.4	17.8	18.1	18.1	18.1
87.5°	6.3	6.8	6.9	7.6	7.7	8.3	8.4	8.1	8.2	9.0	8.1
90°	6.3	7.9	9.8	11.6	13.5	15.3	15.9	16.5	17.0	17.5	18.0
92.5°	10.3	10.8	12.1	13.5	14.9	16.3	17.2	18.1	19.0	20.0	20.5
95°	15.7	13.5	15.1	16.6	18.2	19.7	20.8	21.8	22.7	23.7	24.2
97.5°	67.8	61.3	51.1	40.9	30.7	20.5	21.7	22.8	23.9	25.0	25.7
100°	119.0	109.4	87.3	65.2	43.1	21.0	22.2	23.3	24.5	25.6	26.2
102.5°	149.5	138.5	114.4	90.2	66.0	41.9	38.4	34.9	31.4	27.9	26.3
105°	196.2	190.6	177.8	165.1	152.3	139.6	114.5	89.4	64.4	39.3	26.9
107.5°	246.1	247.8	249.8	251.8	253.8	255.8	237.5	219.1	200.7	182.3	163.6
110°	279.9	281.2	282.8	284.4	285.9	287.5	282.8	278.1	273.5	268.8	256.3



TEST NUMBER: P331928-930

CATALOG NUMBER: S123DIP-S560D805U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	312.1	313.3	315.0	316.5	318.0	319.6	319.7	319.8	319.8	319.9	317.8
115°	359.7	360.8	362.1	363.3	364.6	365.9	367.3	368.7	370.1	371.5	372.5
117.5°	407.2	408.1	408.8	409.4	410.1	410.7	411.9	413.0	414.2	415.2	415.9
120°	437.2	438.1	438.5	439.0	439.4	439.8	440.9	442.1	443.2	444.3	444.9
122.5°	465.9	466.7	467.2	467.8	468.3	468.9	469.7	470.4	471.2	472.1	472.5
125°	506.8	507.7	508.3	508.7	509.3	509.9	510.2	510.5	510.8	511.0	511.4
127.5°	546.1	547.0	547.6	548.4	549.0	549.7	550.2	550.6	551.1	551.5	551.5
130°	570.5	571.4	571.9	572.5	573.1	573.6	574.2	574.8	575.4	575.9	576.1
132.5°	594.0	594.8	595.3	595.7	596.1	596.6	597.2	597.7	598.3	598.8	598.9
135°	628.7	629.4	630.0	630.6	631.1	631.7	632.1	632.5	632.9	633.3	633.3
137.5°	660.1	660.9	661.2	661.5	661.8	662.1	662.8	663.5	664.1	664.9	665.0
140°	679.7	680.3	680.8	681.2	681.6	682.0	682.6	683.1	683.7	684.3	684.4
142.5°	698.5	699.2	699.6	700.0	700.4	700.9	701.3	701.8	702.2	702.7	702.7
145°	725.5	726.1	726.4	726.7	727.0	727.2	727.6	727.8	728.1	728.4	728.6
147.5°	749.0	749.5	749.7	750.0	750.3	750.6	750.9	751.1	751.5	751.7	751.5
150°	763.4	763.8	764.0	764.3	764.6	764.9	765.2	765.4	765.7	766.0	766.0
152.5°	776.2	776.4	776.6	776.7	777.0	777.1	777.6	778.1	778.6	779.2	779.1
155°	793.7	793.6	793.8	793.9	794.0	794.2	794.9	795.7	796.3	797.0	797.0
157.5°	809.8	809.7	809.5	809.4	809.3	809.1	810.0	810.8	811.6	812.5	812.4
160°	818.5	818.3	818.2	818.1	817.9	817.7	818.6	819.5	820.4	821.2	821.1
162.5°	826.2	826.0	825.8	825.7	825.6	825.4	826.4	827.4	828.3	829.2	829.3
165°	836.5	836.2	836.1	835.9	835.8	835.6	836.7	837.9	839.0	840.2	840.2
167.5°	844.1	843.8	843.8	843.8	843.8	843.8	844.9	846.0	847.2	848.3	848.3
170°	848.6	848.4	848.4	848.4	848.4	848.4	849.5	850.6	851.7	852.9	852.9
172.5°	851.3	851.0	851.1	851.2	851.3	851.4	852.6	853.7	854.8	856.0	855.9
175°	855.1	854.8	854.9	855.1	855.2	855.4	856.4	857.4	858.3	859.3	859.2
177.5°	856.7	856.5	856.6	856.7	856.8	856.9	857.9	858.8	859.7	860.5	860.5
180°	857.9	857.9	857.9	857.9	857.9	857.9	857.9	857.9	857.9	857.9	857.9



TEST NUMBER: P331928-930

CATALOG NUMBER: S123DIP-S560D805U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5
2.5°	616.3	616.0	617.8	616.5	617.8	616.0	616.3	618.0	618.5	618.7	618.7
5°	573.6	574.5	571.4	571.4	571.4	574.5	573.6	575.5	577.1	578.3	580.2
7.5°	535.7	534.3	534.4	532.7	534.4	534.3	535.7	537.1	539.2	541.8	544.5
10°	512.4	510.5	509.9	510.2	509.9	510.5	512.4	516.2	517.4	519.9	522.7
12.5°	493.2	492.8	488.7	488.8	488.7	492.8	493.2	494.2	496.9	502.1	505.5
15°	470.6	464.6	464.0	465.9	464.0	464.6	470.6	470.6	471.8	475.9	477.8
17.5°	447.9	444.7	445.0	444.0	445.0	444.7	447.9	448.4	449.4	452.7	455.2
20°	435.9	434.1	433.7	431.5	433.7	434.1	435.9	435.9	437.2	438.7	441.2
22.5°	424.9	424.3	424.4	422.1	424.4	424.3	424.9	425.7	426.9	428.0	429.7
25°	411.2	412.8	411.6	411.6	411.6	412.8	411.2	411.6	411.9	413.4	414.7
27.5°	402.0	401.9	401.3	401.3	401.3	401.9	402.0	401.2	400.9	400.3	400.1
30°	395.0	394.7	395.3	395.3	395.3	394.7	395.0	393.8	393.1	392.8	391.6
32.5°	388.0	388.4	388.6	388.8	388.6	388.4	388.0	386.5	385.4	384.6	383.6
35°	377.2	377.5	378.5	377.8	378.5	377.5	377.2	375.4	374.1	372.2	370.6
37.5°	362.6	364.0	363.7	364.2	363.7	364.0	362.6	362.0	360.8	359.4	357.5
40°	351.6	352.5	352.2	352.2	352.2	352.5	351.6	351.3	350.0	349.1	347.6
42.5°	340.4	341.0	340.2	339.7	340.2	341.0	340.4	339.8	339.1	337.4	335.6
45°	322.0	321.3	322.3	321.0	322.3	321.3	322.0	320.7	320.4	319.1	317.6
47.5°	301.3	302.0	302.2	303.1	302.2	302.0	301.3	301.4	299.7	299.0	298.5
50°	287.6	289.4	289.4	289.2	289.4	289.4	287.6	287.0	285.7	284.5	284.5
52.5°	274.1	275.0	276.2	276.1	276.2	275.0	274.1	273.0	271.7	269.9	269.5
55°	253.2	253.9	254.5	254.8	254.5	253.9	253.2	250.7	249.8	248.8	247.3
57.5°	231.6	231.4	232.8	233.3	232.8	231.4	231.6	229.3	228.0	225.1	224.7
60°	216.4	216.4	218.9	219.8	218.9	216.4	216.4	213.9	211.7	209.9	209.2
62.5°	200.2	201.1	203.7	202.4	203.7	201.1	200.2	197.4	195.8	193.4	191.8
65°	176.4	179.0	178.6	179.9	178.6	179.0	176.4	174.9	171.5	169.3	167.4
67.5°	151.6	153.2	155.5	155.6	155.5	153.2	151.6	149.1	146.9	144.6	142.4
70°	134.9	136.5	137.7	138.6	137.7	136.5	134.9	132.4	129.9	128.3	125.8
72.5°	118.6	119.4	122.5	121.2	122.5	119.4	118.6	115.7	113.7	112.3	109.6
75°	93.0	95.2	97.1	96.2	97.1	95.2	93.0	90.9	89.3	87.4	85.0
77.5°	68.8	71.0	71.9	71.1	71.9	71.0	68.8	67.4	66.6	62.9	62.6
80°	54.3	54.1	55.9	55.6	55.9	54.1	54.3	52.2	50.5	48.4	48.4
82.5°	39.9	39.5	40.4	40.6	40.4	39.5	39.9	38.6	36.6	35.6	34.9
85°	19.3	20.3	19.1	18.8	19.1	20.3	19.3	18.1	18.1	18.1	17.8
87.5°	8.2	8.2	8.0	7.8	8.0	8.2	8.2	8.1	9.0	8.2	8.1
90°	18.3	18.6	18.8	19.2	18.8	18.6	18.3	18.0	17.5	17.0	16.5
92.5°	20.6	20.8	21.0	21.2	21.0	20.8	20.6	20.5	20.0	19.0	18.1
95°	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	23.7	22.7	21.8
97.5°	25.8	26.0	26.1	26.3	26.1	26.0	25.8	25.7	25.0	23.9	22.8
100°	26.3	26.5	26.7	26.7	26.7	26.5	26.3	26.2	25.6	24.5	23.3
102.5°	26.5	26.7	27.0	27.3	27.0	26.7	26.5	26.3	27.9	31.4	34.9
105°	27.2	27.5	27.8	28.0	27.8	27.5	27.2	26.9	39.3	64.4	89.4
107.5°	144.8	125.9	107.0	88.1	107.0	125.9	144.8	163.6	182.3	200.7	219.1
110°	236.0	215.8	195.5	175.3	195.5	215.8	236.0	256.3	268.8	273.5	278.1



TEST NUMBER: P331928-930

CATALOG NUMBER: S123DIP-S560D805U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	313.6	309.2	305.0	300.8	305.0	309.2	313.6	317.8	319.9	319.8	319.8
115°	373.1	373.7	374.2	374.8	374.2	373.7	373.1	372.5	371.5	370.1	368.7
117.5°	416.0	416.1	416.2	416.4	416.2	416.1	416.0	415.9	415.2	414.2	413.0
120°	444.9	444.9	444.9	444.9	444.9	444.9	444.9	444.9	444.3	443.2	442.1
122.5°	472.6	472.7	472.9	473.0	472.9	472.7	472.6	472.5	472.1	471.2	470.4
125°	511.6	511.9	512.2	512.5	512.2	511.9	511.6	511.4	511.0	510.8	510.5
127.5°	551.3	551.1	550.7	550.5	550.7	551.1	551.3	551.5	551.5	551.1	550.6
130°	575.8	575.5	575.2	574.9	575.2	575.5	575.8	576.1	575.9	575.4	574.8
132.5°	598.6	598.2	597.8	597.4	597.8	598.2	598.6	598.9	598.8	598.3	597.7
135°	632.9	632.5	632.1	631.7	632.1	632.5	632.9	633.3	633.3	632.9	632.5
137.5°	664.8	664.5	664.2	663.9	664.2	664.5	664.8	665.0	664.9	664.1	663.5
140°	684.1	683.9	683.5	683.3	683.5	683.9	684.1	684.4	684.3	683.7	683.1
142.5°	702.3	701.9	701.6	701.2	701.6	701.9	702.3	702.7	702.7	702.2	701.8
145°	728.6	728.6	728.6	728.6	728.6	728.6	728.6	728.6	728.4	728.1	727.8
147.5°	750.9	750.2	749.6	748.9	749.6	750.2	750.9	751.5	751.7	751.5	751.1
150°	765.5	765.1	764.7	764.3	764.7	765.1	765.5	766.0	766.0	765.7	765.4
152.5°	778.4	777.8	777.1	776.5	777.1	777.8	778.4	779.1	779.2	778.6	778.1
155°	796.1	795.2	794.4	793.5	794.4	795.2	796.1	797.0	797.0	796.3	795.7
157.5°	811.3	810.2	809.1	808.0	809.1	810.2	811.3	812.4	812.5	811.6	810.8
160°	820.1	819.1	818.2	817.2	818.2	819.1	820.1	821.1	821.2	820.4	819.5
162.5°	828.4	827.5	826.7	825.8	826.7	827.5	828.4	829.3	829.2	828.3	827.4
165°	839.3	838.2	837.2	836.3	837.2	838.2	839.3	840.2	840.2	839.0	837.9
167.5°	847.2	846.0	844.9	843.8	844.9	846.0	847.2	848.3	848.3	847.2	846.0
170°	851.7	850.6	849.5	848.4	849.5	850.6	851.7	852.9	852.9	851.7	850.6
172.5°	854.7	853.5	852.2	850.9	852.2	853.5	854.7	855.9	856.0	854.8	853.7
175°	858.2	857.0	855.9	854.8	855.9	857.0	858.2	859.2	859.3	858.3	857.4
177.5°	859.3	858.2	857.0	855.9	857.0	858.2	859.3	860.5	860.5	859.7	858.8
180°	857.9	857.9	857.9	857.9	857.9	857.9	857.9	857.9	857.9	857.9	857.9



TEST NUMBER: P331928-930

CATALOG NUMBER: S123DIP-S560D805U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5
2.5°	618.0	618.0	622.7	625.7	629.5	632.0	633.7	635.5	638.5	642.5	647.0
5°	582.7	583.9	590.8	597.7	604.2	609.8	614.5	620.1	627.0	635.4	644.8
7.5°	548.5	553.3	560.2	568.6	577.7	586.0	594.2	603.5	613.1	625.6	638.7
10°	526.4	531.7	540.2	550.8	560.5	570.1	580.5	590.4	602.7	617.3	634.2
12.5°	507.2	512.3	521.0	532.6	541.8	552.4	564.3	577.2	590.9	608.6	627.7
15°	480.5	486.5	497.1	502.7	516.8	529.6	540.5	559.2	576.7	594.8	617.0
17.5°	458.7	462.0	470.6	481.0	491.5	505.9	520.2	535.8	553.3	575.4	603.2
20°	443.7	446.5	455.9	466.8	478.1	491.2	504.0	519.6	539.2	562.7	592.6
22.5°	432.4	435.5	441.6	453.3	463.8	474.7	487.5	506.1	527.0	549.9	582.4
25°	416.2	418.1	422.2	431.5	440.9	453.1	464.3	481.8	503.4	530.2	562.7
27.5°	400.8	402.6	406.0	412.7	421.5	431.4	443.6	458.4	480.3	509.5	544.0
30°	391.6	391.9	395.0	401.2	408.7	416.9	428.1	445.0	465.5	495.2	531.5
32.5°	383.6	382.4	384.5	389.2	396.5	404.6	413.8	430.5	450.4	479.5	516.7
35°	370.0	369.4	368.4	372.5	378.8	385.0	393.1	405.6	428.1	455.3	494.3
37.5°	356.2	354.7	353.0	354.9	359.8	366.3	373.3	384.4	403.8	433.7	471.1
40°	346.0	344.7	343.8	343.2	347.6	353.8	359.1	369.7	387.8	416.2	453.1
42.5°	334.8	334.0	332.8	331.9	335.6	340.3	345.8	355.2	373.3	400.0	434.9
45°	316.7	316.0	315.4	314.8	316.9	321.3	325.7	332.6	348.1	374.1	405.6
47.5°	296.4	295.6	295.9	294.9	297.0	299.9	303.0	310.4	325.4	346.3	369.3
50°	281.9	281.7	281.7	281.7	282.3	285.7	288.5	294.2	307.9	328.8	345.4
52.5°	268.2	266.9	266.9	267.4	268.6	270.8	272.6	278.7	290.7	307.9	322.9
55°	246.7	244.2	243.5	244.2	245.2	247.0	248.8	253.9	264.2	277.0	285.7
57.5°	222.8	221.4	220.6	220.8	221.3	222.7	224.2	229.7	237.7	244.4	250.1
60°	206.1	206.7	203.9	204.6	204.6	205.8	208.0	211.4	218.3	223.0	228.6
62.5°	190.4	189.5	188.7	187.8	187.8	188.3	191.2	193.9	199.7	202.2	206.6
65°	165.8	165.8	164.0	164.5	164.9	162.7	164.3	167.4	171.1	172.0	176.1
67.5°	141.0	140.1	139.0	138.1	138.1	137.9	138.7	140.2	143.1	143.4	146.5
70°	123.9	123.4	123.0	122.1	120.8	122.4	121.5	123.0	124.6	124.9	126.8
72.5°	107.5	106.9	106.3	105.3	104.8	104.7	104.8	106.6	107.6	107.1	109.3
75°	84.0	83.4	82.8	81.2	81.2	80.2	80.6	81.8	83.1	82.1	84.0
77.5°	61.7	59.8	59.7	60.1	59.0	59.2	58.9	58.6	59.2	59.3	61.0
80°	47.5	45.2	45.9	45.6	45.2	45.0	44.4	44.7	45.0	45.2	46.2
82.5°	34.2	34.0	33.4	33.3	33.0	32.2	31.9	32.4	32.7	32.5	33.3
85°	17.4	16.6	17.2	16.9	17.2	16.9	15.9	15.9	16.6	16.2	16.9
87.5°	8.4	8.3	7.7	7.6	6.9	6.8	6.3	6.2	6.2	5.9	6.1
90°	15.9	15.3	13.5	11.6	9.8	7.9	6.3	4.9	3.5	2.0	0.7
92.5°	17.2	16.3	14.9	13.5	12.1	10.8	10.3	10.7	11.1	11.5	11.8
95°	20.8	19.7	18.2	16.6	15.1	13.5	15.7	21.4	27.2	33.1	38.9
97.5°	21.7	20.5	30.7	40.9	51.1	61.3	67.8	70.4	73.0	75.6	78.1
100°	22.2	21.0	43.1	65.2	87.3	109.4	119.0	116.2	113.4	110.6	107.7
102.5°	38.4	41.9	66.0	90.2	114.4	138.5	149.5	147.5	145.4	143.4	141.4
105°	114.5	139.6	152.3	165.1	177.8	190.6	196.2	194.6	193.1	191.5	190.0
107.5°	237.5	255.8	253.8	251.8	249.8	247.8	246.1	244.9	243.7	242.5	241.2
110°	282.8	287.5	285.9	284.4	282.8	281.2	279.9	278.8	277.6	276.5	275.3



TEST NUMBER: P331928-930

CATALOG NUMBER: S123DIP-S560D805U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	319.7	319.6	318.0	316.5	315.0	313.3	312.1	311.0	310.1	309.0	308.0
115°	367.3	365.9	364.6	363.3	362.1	360.8	359.7	358.9	358.0	357.2	356.3
117.5°	411.9	410.7	410.1	409.4	408.8	408.1	407.2	406.3	405.2	404.1	403.1
120°	440.9	439.8	439.4	439.0	438.5	438.1	437.2	435.9	434.7	433.4	432.2
122.5°	469.7	468.9	468.3	467.8	467.2	466.7	465.9	464.9	463.8	462.8	461.7
125°	510.2	509.9	509.3	508.7	508.3	507.7	506.8	505.6	504.5	503.4	502.3
127.5°	550.2	549.7	549.0	548.4	547.6	547.0	546.1	544.9	543.8	542.7	541.5
130°	574.2	573.6	573.1	572.5	571.9	571.4	570.5	569.4	568.3	567.1	566.0
132.5°	597.2	596.6	596.1	595.7	595.3	594.8	594.0	592.9	591.7	590.6	589.5
135°	632.1	631.7	631.1	630.6	630.0	629.4	628.7	627.9	627.0	626.1	625.3
137.5°	662.8	662.1	661.8	661.5	661.2	660.9	660.1	659.1	658.0	657.0	655.9
140°	682.6	682.0	681.6	681.2	680.8	680.3	679.7	678.8	678.0	677.1	676.3
142.5°	701.3	700.9	700.4	700.0	699.6	699.2	698.5	697.7	696.8	696.0	695.1
145°	727.6	727.2	727.0	726.7	726.4	726.1	725.5	724.5	723.5	722.5	721.5
147.5°	750.9	750.6	750.3	750.0	749.7	749.5	749.0	748.4	747.7	747.1	746.4
150°	765.2	764.9	764.6	764.3	764.0	763.8	763.4	763.0	762.5	762.1	761.7
152.5°	777.6	777.1	777.0	776.7	776.6	776.4	776.2	776.1	775.8	775.7	775.4
155°	794.9	794.2	794.0	793.9	793.8	793.6	793.7	794.0	794.3	794.6	794.8
157.5°	810.0	809.1	809.3	809.4	809.5	809.7	809.8	809.8	809.8	809.8	809.8
160°	818.6	817.7	817.9	818.1	818.2	818.3	818.5	818.6	818.8	818.9	819.0
162.5°	826.4	825.4	825.6	825.7	825.8	826.0	826.2	826.6	827.0	827.4	827.7
165°	836.7	835.6	835.8	835.9	836.1	836.2	836.5	836.9	837.3	837.7	838.2
167.5°	844.9	843.8	843.8	843.8	843.8	843.8	844.1	844.7	845.2	845.8	846.4
170°	849.5	848.4	848.4	848.4	848.4	848.4	848.6	849.2	849.8	850.4	850.9
172.5°	852.6	851.4	851.3	851.2	851.1	851.0	851.3	851.9	852.6	853.3	853.9
175°	856.4	855.4	855.2	855.1	854.9	854.8	855.1	855.8	856.6	857.2	857.9
177.5°	857.9	856.9	856.8	856.7	856.6	856.5	856.7	857.3	857.9	858.4	858.9
180°	857.9	857.9	857.9	857.9	857.9	857.9	857.9	857.9	857.9	857.9	857.9



TEST NUMBER: P331928-930

CATALOG NUMBER: S123DIP-S560D805U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5	644.5
2.5°	648.5	649.7	654.0	657.0	660.5	662.5	664.5	666.0	668.0	668.5	675.7
5°	651.3	657.6	668.5	676.6	686.6	697.6	705.1	708.5	717.5	725.0	740.0
7.5°	650.5	663.8	680.4	697.5	715.8	732.8	747.5	765.0	777.5	796.1	814.6
10°	649.8	667.6	688.8	710.7	736.3	760.0	781.3	805.0	824.7	850.6	872.8
12.5°	647.6	669.1	698.5	724.4	755.5	788.2	819.7	850.2	867.6	910.8	931.2
15°	642.0	667.6	704.4	743.8	786.6	825.3	865.3	897.1	948.6	986.4	1010.5
17.5°	631.4	667.2	710.9	758.4	810.4	861.4	906.7	955.0	1009.7	1055.4	1104.2
20°	626.4	665.7	714.4	766.9	820.9	878.6	930.2	988.3	1047.9	1092.9	1155.4
22.5°	617.2	661.7	714.2	772.7	830.4	890.1	950.5	1009.0	1077.9	1139.9	1199.3
25°	602.0	652.0	706.3	771.6	839.4	899.3	971.4	1049.2	1121.0	1200.6	1260.0
27.5°	586.2	639.5	694.0	754.6	827.5	898.7	989.4	1077.3	1165.1	1233.9	1277.7
30°	573.9	625.7	682.0	743.1	815.3	899.9	1001.4	1097.2	1182.8	1241.9	1266.5
32.5°	560.7	613.3	663.0	727.2	804.0	899.2	1008.9	1109.0	1183.8	1223.1	1218.3
35°	539.9	583.9	632.3	694.1	784.7	893.6	1013.3	1110.0	1155.9	1147.5	1083.9
37.5°	509.9	547.0	594.6	662.3	762.2	882.2	1004.5	1077.2	1074.2	1005.5	913.2
40°	491.2	522.7	568.6	639.8	744.7	874.7	990.8	1038.0	998.0	902.1	791.6
42.5°	466.7	495.7	541.6	614.8	725.5	859.4	964.6	978.2	900.0	789.7	688.4
45°	428.8	454.4	501.8	577.4	696.7	826.2	900.6	867.2	761.9	647.9	570.8
47.5°	387.9	414.6	460.2	537.9	654.9	776.3	811.7	740.7	632.6	540.2	469.4
50°	362.2	387.8	432.4	510.9	626.7	735.4	750.1	658.3	559.0	477.8	419.6
52.5°	336.2	360.4	404.2	482.9	593.7	687.9	678.8	585.3	494.0	424.8	379.2
55°	297.6	320.4	362.2	435.9	536.8	611.4	578.6	489.3	413.8	360.0	325.4
57.5°	263.0	284.9	320.9	387.5	475.2	526.4	484.8	409.5	349.4	308.1	282.3
60°	239.5	258.9	293.2	355.1	431.2	470.3	429.0	362.6	311.9	278.8	255.8
62.5°	217.3	234.2	266.0	322.0	388.2	421.0	379.4	323.0	280.0	250.6	231.0
65°	183.6	198.9	227.0	270.8	325.1	346.9	311.0	265.4	232.0	210.2	197.1
67.5°	152.9	165.8	190.1	224.5	264.6	280.5	253.2	217.8	192.7	175.1	164.7
70°	132.4	143.7	162.7	192.3	228.6	240.8	215.2	186.1	167.7	153.6	144.0
72.5°	115.1	123.4	140.7	163.6	193.9	203.5	185.6	160.1	142.9	132.4	124.7
75°	87.7	94.6	105.8	124.3	145.2	150.8	137.4	121.5	109.9	102.4	96.4
77.5°	63.3	68.3	76.5	87.8	102.3	107.4	98.9	88.2	79.8	74.8	71.4
80°	47.8	51.9	58.7	68.1	76.8	79.7	74.6	66.5	60.6	57.8	55.0
82.5°	35.3	37.6	41.7	48.1	54.1	57.4	53.2	48.3	45.1	42.6	41.5
85°	17.8	19.1	21.0	23.4	27.1	28.5	26.8	25.6	23.7	22.2	22.2
87.5°	6.9	7.2	8.2	9.0	10.4	11.4	11.6	11.4	11.6	11.4	11.3
90°	2.0	3.5	4.9	6.3	7.9	9.8	11.6	13.5	15.3	15.9	16.5
92.5°	11.5	11.1	10.7	10.3	10.8	12.1	13.5	14.9	16.3	17.2	18.1
95°	33.1	27.2	21.4	15.7	13.5	15.1	16.6	18.2	19.7	20.8	21.8
97.5°	75.6	73.0	70.4	67.8	61.3	51.1	40.9	30.7	20.5	21.7	22.8
100°	110.6	113.4	116.2	119.0	109.4	87.3	65.2	43.1	21.0	22.2	23.3
102.5°	143.4	145.4	147.5	149.5	138.5	114.4	90.2	66.0	41.9	38.4	34.9
105°	191.5	193.1	194.6	196.2	190.6	177.8	165.1	152.3	139.6	114.5	89.4
107.5°	242.5	243.7	244.9	246.1	247.8	249.8	251.8	253.8	255.8	237.5	219.1
110°	276.5	277.6	278.8	279.9	281.2	282.8	284.4	285.9	287.5	282.8	278.1



TEST NUMBER: P331928-930

CATALOG NUMBER: S123DIP-S560D805U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	309.0	310.1	311.0	312.1	313.3	315.0	316.5	318.0	319.6	319.7	319.8
115°	357.2	358.0	358.9	359.7	360.8	362.1	363.3	364.6	365.9	367.3	368.7
117.5°	404.1	405.2	406.3	407.2	408.1	408.8	409.4	410.1	410.7	411.9	413.0
120°	433.4	434.7	435.9	437.2	438.1	438.5	439.0	439.4	439.8	440.9	442.1
122.5°	462.8	463.8	464.9	465.9	466.7	467.2	467.8	468.3	468.9	469.7	470.4
125°	503.4	504.5	505.6	506.8	507.7	508.3	508.7	509.3	509.9	510.2	510.5
127.5°	542.7	543.8	544.9	546.1	547.0	547.6	548.4	549.0	549.7	550.2	550.6
130°	567.1	568.3	569.4	570.5	571.4	571.9	572.5	573.1	573.6	574.2	574.8
132.5°	590.6	591.7	592.9	594.0	594.8	595.3	595.7	596.1	596.6	597.2	597.7
135°	626.1	627.0	627.9	628.7	629.4	630.0	630.6	631.1	631.7	632.1	632.5
137.5°	657.0	658.0	659.1	660.1	660.9	661.2	661.5	661.8	662.1	662.8	663.5
140°	677.1	678.0	678.8	679.7	680.3	680.8	681.2	681.6	682.0	682.6	683.1
142.5°	696.0	696.8	697.7	698.5	699.2	699.6	700.0	700.4	700.9	701.3	701.8
145°	722.5	723.5	724.5	725.5	726.1	726.4	726.7	727.0	727.2	727.6	727.8
147.5°	747.1	747.7	748.4	749.0	749.5	749.7	750.0	750.3	750.6	750.9	751.1
150°	762.1	762.5	763.0	763.4	763.8	764.0	764.3	764.6	764.9	765.2	765.4
152.5°	775.7	775.8	776.1	776.2	776.4	776.6	776.7	777.0	777.1	777.6	778.1
155°	794.6	794.3	794.0	793.7	793.6	793.8	793.9	794.0	794.2	794.9	795.7
157.5°	809.8	809.8	809.8	809.8	809.7	809.5	809.4	809.3	809.1	810.0	810.8
160°	818.9	818.8	818.6	818.5	818.3	818.2	818.1	817.9	817.7	818.6	819.5
162.5°	827.4	827.0	826.6	826.2	826.0	825.8	825.7	825.6	825.4	826.4	827.4
165°	837.7	837.3	836.9	836.5	836.2	836.1	835.9	835.8	835.6	836.7	837.9
167.5°	845.8	845.2	844.7	844.1	843.8	843.8	843.8	843.8	843.8	844.9	846.0
170°	850.4	849.8	849.2	848.6	848.4	848.4	848.4	848.4	848.4	849.5	850.6
172.5°	853.3	852.6	851.9	851.3	851.0	851.1	851.2	851.3	851.4	852.6	853.7
175°	857.2	856.6	855.8	855.1	854.8	854.9	855.1	855.2	855.4	856.4	857.4
177.5°	858.4	857.9	857.3	856.7	856.5	856.6	856.7	856.8	856.9	857.9	858.8
180°	857.9	857.9	857.9	857.9	857.9	857.9	857.9	857.9	857.9	857.9	857.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	644.5	644.5	644.5	644.5	644.5	644.5	644.5
2.5°	678.2	678.5	681.2	683.2	682.2	683.5	684.0
5°	740.9	752.2	758.1	762.5	762.9	763.1	765.6
7.5°	830.0	842.0	850.8	864.2	868.2	872.8	871.5
10°	895.0	912.7	928.1	936.1	944.9	957.7	947.4
12.5°	955.6	987.2	1010.5	1023.0	1031.4	1033.9	1028.8
15°	1055.7	1097.0	1119.2	1118.5	1146.6	1158.8	1139.7
17.5°	1147.5	1185.6	1216.0	1231.7	1255.1	1260.3	1257.9
20°	1203.7	1245.3	1269.0	1295.8	1308.1	1319.0	1320.9
22.5°	1252.2	1289.5	1315.0	1337.3	1347.5	1352.7	1355.8
25°	1302.1	1331.5	1346.8	1354.5	1357.4	1356.7	1352.7
27.5°	1298.7	1300.9	1284.1	1267.5	1252.7	1236.0	1230.3
30°	1264.9	1238.7	1191.9	1165.3	1126.3	1095.4	1107.9
32.5°	1176.2	1124.1	1071.5	1013.4	965.4	951.8	938.0
35°	1003.9	912.1	858.4	796.0	770.9	746.0	728.8
37.5°	812.2	741.2	677.4	636.6	611.6	595.8	587.3
40°	702.3	638.2	585.8	552.7	533.6	515.8	513.3
42.5°	614.6	555.1	515.6	489.3	470.9	463.4	457.9
45°	503.4	461.8	435.3	416.5	404.4	399.7	393.5
47.5°	426.1	396.7	376.7	364.0	354.8	351.3	350.8
50°	382.9	358.5	343.8	333.8	326.6	325.4	320.4
52.5°	350.3	329.2	317.8	309.1	303.9	300.4	298.9
55°	304.1	290.1	279.8	274.8	270.8	267.3	267.3
57.5°	266.1	254.4	247.5	243.3	242.1	239.6	238.1
60°	242.6	232.6	227.3	223.6	221.1	221.4	218.6
62.5°	219.6	213.1	208.1	204.3	201.4	201.4	201.6
65°	187.0	182.1	178.3	177.1	175.2	173.0	173.6
67.5°	158.5	153.8	150.9	148.8	148.1	146.9	148.8
70°	138.0	134.6	132.4	130.5	129.9	130.2	131.8
72.5°	119.3	116.8	115.4	114.5	113.2	113.2	114.3
75°	93.7	91.8	90.6	89.6	89.3	89.3	89.3
77.5°	68.8	68.4	67.8	66.4	66.5	66.9	66.9
80°	54.3	53.4	53.1	52.4	51.5	50.9	52.4
82.5°	40.6	39.6	39.4	39.2	37.7	37.7	39.0
85°	21.9	21.0	21.2	21.0	21.0	20.6	20.6
87.5°	11.2	11.0	10.8	11.2	10.9	10.8	11.3
90°	17.0	17.5	18.0	18.3	18.6	18.8	19.2
92.5°	19.0	20.0	20.5	20.6	20.8	21.0	21.2
95°	22.7	23.7	24.2	24.2	24.2	24.2	24.2
97.5°	23.9	25.0	25.7	25.8	26.0	26.1	26.3
100°	24.5	25.6	26.2	26.3	26.5	26.7	26.7
102.5°	31.4	27.9	26.3	26.5	26.7	27.0	27.3
105°	64.4	39.3	26.9	27.2	27.5	27.8	28.0
107.5°	200.7	182.3	163.6	144.8	125.9	107.0	88.1
110°	273.5	268.8	256.3	236.0	215.8	195.5	175.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	319.8	319.9	317.8	313.6	309.2	305.0	300.8
115°	370.1	371.5	372.5	373.1	373.7	374.2	374.8
117.5°	414.2	415.2	415.9	416.0	416.1	416.2	416.4
120°	443.2	444.3	444.9	444.9	444.9	444.9	444.9
122.5°	471.2	472.1	472.5	472.6	472.7	472.9	473.0
125°	510.8	511.0	511.4	511.6	511.9	512.2	512.5
127.5°	551.1	551.5	551.5	551.3	551.1	550.7	550.5
130°	575.4	575.9	576.1	575.8	575.5	575.2	574.9
132.5°	598.3	598.8	598.9	598.6	598.2	597.8	597.4
135°	632.9	633.3	633.3	632.9	632.5	632.1	631.7
137.5°	664.1	664.9	665.0	664.8	664.5	664.2	663.9
140°	683.7	684.3	684.4	684.1	683.9	683.5	683.3
142.5°	702.2	702.7	702.7	702.3	701.9	701.6	701.2
145°	728.1	728.4	728.6	728.6	728.6	728.6	728.6
147.5°	751.5	751.7	751.5	750.9	750.2	749.6	748.9
150°	765.7	766.0	766.0	765.5	765.1	764.7	764.3
152.5°	778.6	779.2	779.1	778.4	777.8	777.1	776.5
155°	796.3	797.0	797.0	796.1	795.2	794.4	793.5
157.5°	811.6	812.5	812.4	811.3	810.2	809.1	808.0
160°	820.4	821.2	821.1	820.1	819.1	818.2	817.2
162.5°	828.3	829.2	829.3	828.4	827.5	826.7	825.8
165°	839.0	840.2	840.2	839.3	838.2	837.2	836.3
167.5°	847.2	848.3	848.3	847.2	846.0	844.9	843.8
170°	851.7	852.9	852.9	851.7	850.6	849.5	848.4
172.5°	854.8	856.0	855.9	854.7	853.5	852.2	850.9
175°	858.3	859.3	859.2	858.2	857.0	855.9	854.8
177.5°	859.7	860.5	860.5	859.3	858.2	857.0	855.9
180°	857.9	857.9	857.9	857.9	857.9	857.9	857.9

(END OF REPORT)