

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: P331930-935

Luminaire Tested: **S123DIP-S560D805U935-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331930-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-17,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIP-S560D805U935-4F0-1E-UDD-A4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 560 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 805 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4558.7 lumens
Efficiency: N/A
Efficacy: 118.7 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

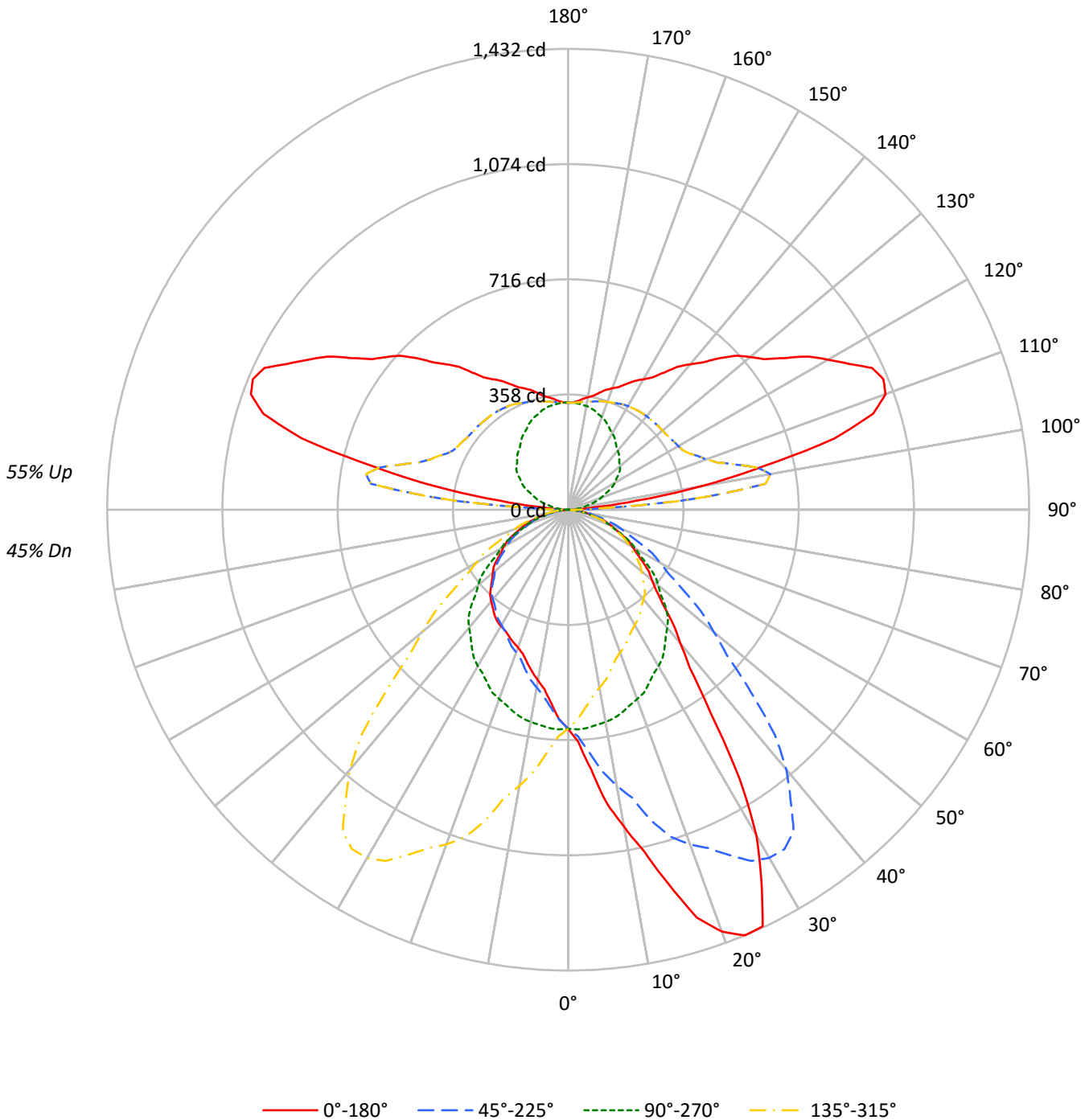
Input Watts (W): 38.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	45				
1	97	93	89	86	89	85	82	79	71	69	67	58	56	55	46	45	44	38				
2	88	81	75	70	81	75	70	65	62	59	56	51	49	46	41	39	37	33				
3	81	72	64	59	74	66	60	55	55	51	47	45	42	39	36	34	32	28				
4	74	63	56	50	68	59	52	47	49	44	40	41	37	34	33	30	28	24				
5	68	57	49	43	62	52	45	40	44	39	35	36	33	29	29	27	24	21				
6	63	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	21	18				
7	58	46	38	32	53	42	35	31	36	31	27	30	26	23	24	21	19	16				
8	54	42	34	29	49	39	32	27	33	27	24	27	23	20	22	19	17	15				
9	50	38	31	26	46	35	29	24	30	25	21	25	21	18	21	18	15	13				
10	47	35	28	23	43	32	26	22	28	23	19	23	19	17	19	16	14	12				

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	1.5
10°-20°	215.0	4.7
20°-30°	360.8	7.9
30°-40°	408.6	9.0
40°-50°	366.4	8.0
50°-60°	295.7	6.5
60°-70°	206.0	4.5
70°-80°	108.3	2.4
80°-90°	29.1	0.6
90°-100°	185.1	4.1
100°-110°	524.0	11.5
110°-120°	515.5	11.3
120°-130°	411.2	9.0
130°-140°	324.2	7.1
140°-150°	242.0	5.3
150°-160°	168.6	3.7
160°-170°	99.1	2.2
170°-180°	32.2	0.7
0°-30°	642.9	14.1
0°-40°	1051.4	23.1
0°-60°	1713.5	37.6
0°-90°	2056.8	45.1
90°-120°	1224.6	26.9
90°-150°	2201.9	48.3
90°-180°	2502.0	54.9
0°-180°	4558.7	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°	20	1	20	1	20	11
95°	78	23	78	23	78	141
105°	856	78	856	78	856	845
115°	1041	138	1041	138	1041	1012
125°	821	192	821	192	821	744
135°	666	225	666	225	666	516
145°	520	256	520	256	520	331
155°	431	291	431	291	431	201
165°	376	318	376	318	376	108
175°	339	332	339	332	339	33
180°	332	332	332	332	332	



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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°	11.8	11.5	11.5	11.7	11.5	11.5	11.7	11.8	12.0	12.3	12.2
90°	19.5	20.2	19.5	18.9	19.5	18.2	17.5	16.8	16.2	16.8	14.8
92.5°	32.5	33.7	33.0	35.0	36.2	39.7	44.9	56.7	78.1	103.5	113.9
95°	78.1	80.8	85.5	91.5	104.4	128.5	164.3	242.4	323.8	399.2	355.4
97.5°	212.6	218.3	236.5	266.8	316.5	397.0	483.9	604.1	661.9	618.6	452.9
100°	422.1	421.4	447.6	496.8	564.7	660.4	739.1	793.7	770.1	637.5	430.8
102.5°	619.1	634.6	656.6	695.5	748.4	809.0	854.9	856.6	775.5	602.4	398.5
105°	856.3	859.6	881.1	906.7	937.7	955.2	942.4	875.1	734.4	541.2	358.8
107.5°	992.7	998.9	1006.3	1014.9	1014.3	990.3	931.3	822.1	662.5	487.1	333.5
110°	1048.8	1050.1	1051.5	1046.0	1027.3	980.1	895.3	771.5	617.3	456.4	323.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1060.1	1059.8	1054.7	1038.0	1003.5	943.0	847.9	721.3	578.0	435.9	318.4
115°	1041.4	1038.0	1024.5	994.9	944.4	871.1	772.1	655.0	530.5	414.0	316.4
117.5°	981.9	977.2	957.9	923.9	871.3	796.9	708.0	606.9	501.8	401.1	317.6
120°	932.3	928.2	912.1	874.4	821.2	753.3	672.4	581.6	486.7	395.1	319.8
122.5°	886.0	880.9	863.1	829.1	782.0	718.8	643.9	561.7	474.3	391.4	323.5
125°	821.2	816.5	799.7	770.1	727.0	673.1	608.6	535.1	458.4	386.4	329.2
127.5°	767.9	763.6	748.4	723.1	684.8	635.8	577.4	512.0	444.4	384.0	335.6
130°	737.8	732.4	718.2	694.1	658.3	612.6	558.0	497.5	436.9	382.4	339.9
132.5°	708.2	704.4	691.9	667.6	634.1	590.5	539.8	484.0	429.9	381.8	343.2
135°	665.7	661.0	648.9	628.7	595.7	557.3	513.6	465.8	420.7	381.0	348.0
137.5°	621.0	617.9	607.6	587.1	559.4	526.2	488.4	449.3	412.8	379.5	351.3
140°	589.7	590.4	579.5	560.8	535.1	506.2	473.9	439.5	407.9	379.0	353.4
142.5°	560.6	561.3	551.6	534.9	513.1	487.9	459.9	430.4	403.6	377.9	355.0
145°	520.3	519.0	513.6	499.5	482.7	463.1	441.6	419.4	397.9	376.3	356.1
147.5°	487.2	486.7	481.6	472.0	459.3	445.4	428.0	410.4	392.2	373.8	356.1
150°	467.9	467.9	463.8	456.4	446.3	433.5	419.4	403.9	388.4	371.6	356.1
152.5°	451.7	451.7	449.3	442.4	434.5	423.8	411.3	398.0	384.1	368.9	354.5
155°	431.4	430.8	429.5	424.0	418.0	409.9	399.8	389.1	377.6	364.2	352.8
157.5°	413.0	413.2	412.1	408.0	402.8	396.5	388.7	379.6	370.4	360.0	350.4
160°	401.2	401.8	401.8	397.9	393.1	388.4	381.7	374.3	365.5	356.8	349.4
162.5°	390.5	391.1	391.1	387.6	384.5	380.3	374.1	367.8	360.7	353.5	347.2
165°	376.3	376.3	376.9	374.3	371.6	368.2	363.5	359.5	354.0	348.7	344.0
167.5°	362.8	362.8	363.5	361.6	360.4	358.0	355.2	352.1	347.8	343.9	340.8
170°	354.7	354.7	355.4	354.0	353.4	352.1	349.4	347.3	344.0	340.6	338.6
172.5°	347.2	347.8	349.0	347.6	347.5	346.6	344.5	343.0	340.2	337.9	337.0
175°	338.6	339.2	339.9	339.2	339.2	339.2	337.9	337.3	335.9	334.6	334.6
177.5°	333.6	333.6	334.7	334.2	334.7	334.7	334.2	333.6	333.0	332.5	333.0
180°	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5



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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°	12.3	12.1	11.0	9.6	8.9	7.7	7.4	6.6	6.4	6.6	6.7
90°	12.8	10.8	8.8	7.4	6.0	4.0	2.7	1.4	2.7	4.0	6.0
92.5°	85.5	56.6	38.9	28.9	23.3	18.1	12.4	8.4	12.4	18.1	23.3
95°	245.0	144.7	87.5	61.2	43.7	32.3	24.9	22.9	24.9	32.3	43.7
97.5°	268.9	155.8	101.1	72.7	55.4	45.5	39.7	39.0	39.7	45.5	55.4
100°	253.7	154.1	107.0	80.8	64.7	55.2	50.5	49.9	50.5	55.2	64.7
102.5°	240.8	156.3	114.0	90.0	75.4	66.5	62.3	61.1	62.3	66.5	75.4
105°	231.5	162.2	125.9	105.0	92.2	84.1	80.1	78.1	80.1	84.1	92.2
107.5°	230.9	173.2	141.4	122.0	109.9	102.0	98.2	96.1	98.2	102.0	109.9
110°	233.6	182.4	152.1	133.3	121.8	114.4	111.1	109.1	111.1	114.4	121.8



TEST NUMBER: P331930-935

CATALOG NUMBER: S123DIP-S560D805U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	238.9	191.6	163.4	145.2	133.7	126.3	123.0	120.9	123.0	126.3	133.7
115°	247.7	206.6	181.1	162.9	151.4	144.7	140.7	138.0	140.7	144.7	151.4
117.5°	259.3	222.7	197.3	180.6	167.7	161.5	158.2	155.1	158.2	161.5	167.7
120°	267.9	232.9	208.7	191.8	179.1	172.3	168.9	166.9	168.9	172.3	179.1
122.5°	276.0	243.7	220.0	202.1	189.9	182.5	179.2	177.2	179.2	182.5	189.9
125°	288.8	259.2	235.6	217.4	204.7	197.3	193.2	191.8	193.2	197.3	204.7
127.5°	299.3	272.6	249.9	231.7	217.6	210.0	205.0	203.0	205.0	210.0	217.6
130°	306.3	280.7	258.5	240.3	226.2	218.1	212.1	210.0	212.1	218.1	226.2
132.5°	312.7	287.7	266.0	248.4	234.3	224.5	218.0	215.4	218.0	224.5	234.3
135°	321.1	298.2	277.3	259.2	245.0	235.0	227.6	224.8	227.6	235.0	245.0
137.5°	327.3	305.5	285.4	268.5	254.6	243.8	236.5	233.7	236.5	243.8	254.6
140°	330.5	310.3	290.8	274.0	260.5	249.8	243.0	239.6	243.0	249.8	260.5
142.5°	333.7	314.1	295.1	279.4	265.9	256.2	248.9	246.1	248.9	256.2	265.9
145°	337.3	319.1	301.6	286.1	274.7	264.6	258.5	256.5	258.5	264.6	274.7
147.5°	339.4	323.1	307.1	293.9	282.8	274.1	268.2	267.0	268.2	274.1	282.8
150°	339.9	325.8	310.3	298.2	288.8	280.0	274.7	274.0	274.7	280.0	288.8
152.5°	341.0	327.4	314.1	302.5	294.2	286.5	281.1	280.9	281.1	286.5	294.2
155°	341.3	330.5	319.1	309.6	302.2	295.5	291.4	291.4	291.4	295.5	302.2
157.5°	342.0	332.3	323.1	315.8	309.5	303.6	300.3	299.8	300.3	303.6	309.5
160°	342.0	333.9	325.8	319.1	314.4	309.0	306.3	306.3	306.3	309.0	314.4
162.5°	341.4	334.4	327.4	321.8	317.6	313.3	311.2	311.2	311.2	313.3	317.6
165°	339.9	335.2	329.8	325.1	322.4	319.1	317.7	318.4	317.7	319.1	322.4
167.5°	338.9	335.1	331.2	328.2	326.3	323.8	323.1	323.9	323.1	323.8	326.3
170°	337.3	334.6	331.2	329.8	328.5	326.5	325.8	327.2	325.8	326.5	328.5
172.5°	336.7	334.6	331.7	330.9	330.1	328.6	328.5	329.3	328.5	328.6	330.1
175°	335.2	333.9	332.5	331.8	331.8	330.5	331.2	331.8	331.2	330.5	331.8
177.5°	334.2	333.0	332.5	332.5	332.5	332.0	332.5	333.0	332.5	332.0	332.5
180°	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5



TEST NUMBER: P331930-935

CATALOG NUMBER: S123DIP-S560D805U935-4F0-1E-UDD-A4

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°	6.7	7.3	7.4	8.1	8.3	8.9	8.8	8.4	8.5	9.5	8.6
90°	7.4	8.8	10.8	12.8	14.8	16.8	16.2	16.8	17.5	18.2	19.5
92.5°	28.9	38.9	56.6	85.5	113.9	103.5	78.1	56.7	44.9	39.7	36.2
95°	61.2	87.5	144.7	245.0	355.4	399.2	323.8	242.4	164.3	128.5	104.4
97.5°	72.7	101.1	155.8	268.9	452.9	618.6	661.9	604.1	483.9	397.0	316.5
100°	80.8	107.0	154.1	253.7	430.8	637.5	770.1	793.7	739.1	660.4	564.7
102.5°	90.0	114.0	156.3	240.8	398.5	602.4	775.5	856.6	854.9	809.0	748.4
105°	105.0	125.9	162.2	231.5	358.8	541.2	734.4	875.1	942.4	955.2	937.7
107.5°	122.0	141.4	173.2	230.9	333.5	487.1	662.5	822.1	931.3	990.3	1014.3
110°	133.3	152.1	182.4	233.6	323.8	456.4	617.3	771.5	895.3	980.1	1027.3



TEST NUMBER: P331930-935

CATALOG NUMBER: S123DIP-S560D805U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	145.2	163.4	191.6	238.9	318.4	435.9	578.0	721.3	847.9	943.0	1003.5
115°	162.9	181.1	206.6	247.7	316.4	414.0	530.5	655.0	772.1	871.1	944.4
117.5°	180.6	197.3	222.7	259.3	317.6	401.1	501.8	606.9	708.0	796.9	871.3
120°	191.8	208.7	232.9	267.9	319.8	395.1	486.7	581.6	672.4	753.3	821.2
122.5°	202.1	220.0	243.7	276.0	323.5	391.4	474.3	561.7	643.9	718.8	782.0
125°	217.4	235.6	259.2	288.8	329.2	386.4	458.4	535.1	608.6	673.1	727.0
127.5°	231.7	249.9	272.6	299.3	335.6	384.0	444.4	512.0	577.4	635.8	684.8
130°	240.3	258.5	280.7	306.3	339.9	382.4	436.9	497.5	558.0	612.6	658.3
132.5°	248.4	266.0	287.7	312.7	343.2	381.8	429.9	484.0	539.8	590.5	634.1
135°	259.2	277.3	298.2	321.1	348.0	381.0	420.7	465.8	513.6	557.3	595.7
137.5°	268.5	285.4	305.5	327.3	351.3	379.5	412.8	449.3	488.4	526.2	559.4
140°	274.0	290.8	310.3	330.5	353.4	379.0	407.9	439.5	473.9	506.2	535.1
142.5°	279.4	295.1	314.1	333.7	355.0	377.9	403.6	430.4	459.9	487.9	513.1
145°	286.1	301.6	319.1	337.3	356.1	376.3	397.9	419.4	441.6	463.1	482.7
147.5°	293.9	307.1	323.1	339.4	356.1	373.8	392.2	410.4	428.0	445.4	459.3
150°	298.2	310.3	325.8	339.9	356.1	371.6	388.4	403.9	419.4	433.5	446.3
152.5°	302.5	314.1	327.4	341.0	354.5	368.9	384.1	398.0	411.3	423.8	434.5
155°	309.6	319.1	330.5	341.3	352.8	364.2	377.6	389.1	399.8	409.9	418.0
157.5°	315.8	323.1	332.3	342.0	350.4	360.0	370.4	379.6	388.7	396.5	402.8
160°	319.1	325.8	333.9	342.0	349.4	356.8	365.5	374.3	381.7	388.4	393.1
162.5°	321.8	327.4	334.4	341.4	347.2	353.5	360.7	367.8	374.1	380.3	384.5
165°	325.1	329.8	335.2	339.9	344.0	348.7	354.0	359.5	363.5	368.2	371.6
167.5°	328.2	331.2	335.1	338.9	340.8	343.9	347.8	352.1	355.2	358.0	360.4
170°	329.8	331.2	334.6	337.3	338.6	340.6	344.0	347.3	349.4	352.1	353.4
172.5°	330.9	331.7	334.6	336.7	337.0	337.9	340.2	343.0	344.5	346.6	347.5
175°	331.8	332.5	333.9	335.2	334.6	334.6	335.9	337.3	337.9	339.2	339.2
177.5°	332.5	332.5	333.0	334.2	333.0	332.5	333.0	333.6	334.2	334.7	334.7
180°	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5



TEST NUMBER: P331930-935

CATALOG NUMBER: S123DIP-S560D805U935-4F0-1E-UDD-A4

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°	8.5	8.6	8.5	8.1	8.5	8.6	8.5	8.6	9.5	8.5	8.4
90°	18.9	19.5	20.2	19.5	20.2	19.5	18.9	19.5	18.2	17.5	16.8
92.5°	35.0	33.0	33.7	32.5	33.7	33.0	35.0	36.2	39.7	44.9	56.7
95°	91.5	85.5	80.8	78.1	80.8	85.5	91.5	104.4	128.5	164.3	242.4
97.5°	266.8	236.5	218.3	212.6	218.3	236.5	266.8	316.5	397.0	483.9	604.1
100°	496.8	447.6	421.4	422.1	421.4	447.6	496.8	564.7	660.4	739.1	793.7
102.5°	695.5	656.6	634.6	619.1	634.6	656.6	695.5	748.4	809.0	854.9	856.6
105°	906.7	881.1	859.6	856.3	859.6	881.1	906.7	937.7	955.2	942.4	875.1
107.5°	1014.9	1006.3	998.9	992.7	998.9	1006.3	1014.9	1014.3	990.3	931.3	822.1
110°	1046.0	1051.5	1050.1	1048.8	1050.1	1051.5	1046.0	1027.3	980.1	895.3	771.5



TEST NUMBER: P331930-935

CATALOG NUMBER: S123DIP-S560D805U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1038.0	1054.7	1059.8	1060.1	1059.8	1054.7	1038.0	1003.5	943.0	847.9	721.3
115°	994.9	1024.5	1038.0	1041.4	1038.0	1024.5	994.9	944.4	871.1	772.1	655.0
117.5°	923.9	957.9	977.2	981.9	977.2	957.9	923.9	871.3	796.9	708.0	606.9
120°	874.4	912.1	928.2	932.3	928.2	912.1	874.4	821.2	753.3	672.4	581.6
122.5°	829.1	863.1	880.9	886.0	880.9	863.1	829.1	782.0	718.8	643.9	561.7
125°	770.1	799.7	816.5	821.2	816.5	799.7	770.1	727.0	673.1	608.6	535.1
127.5°	723.1	748.4	763.6	767.9	763.6	748.4	723.1	684.8	635.8	577.4	512.0
130°	694.1	718.2	732.4	737.8	732.4	718.2	694.1	658.3	612.6	558.0	497.5
132.5°	667.6	691.9	704.4	708.2	704.4	691.9	667.6	634.1	590.5	539.8	484.0
135°	628.7	648.9	661.0	665.7	661.0	648.9	628.7	595.7	557.3	513.6	465.8
137.5°	587.1	607.6	617.9	621.0	617.9	607.6	587.1	559.4	526.2	488.4	449.3
140°	560.8	579.5	590.4	589.7	590.4	579.5	560.8	535.1	506.2	473.9	439.5
142.5°	534.9	551.6	561.3	560.6	561.3	551.6	534.9	513.1	487.9	459.9	430.4
145°	499.5	513.6	519.0	520.3	519.0	513.6	499.5	482.7	463.1	441.6	419.4
147.5°	472.0	481.6	486.7	487.2	486.7	481.6	472.0	459.3	445.4	428.0	410.4
150°	456.4	463.8	467.9	467.9	467.9	463.8	456.4	446.3	433.5	419.4	403.9
152.5°	442.4	449.3	451.7	451.7	451.7	449.3	442.4	434.5	423.8	411.3	398.0
155°	424.0	429.5	430.8	431.4	430.8	429.5	424.0	418.0	409.9	399.8	389.1
157.5°	408.0	412.1	413.2	413.0	413.2	412.1	408.0	402.8	396.5	388.7	379.6
160°	397.9	401.8	401.8	401.2	401.8	401.8	397.9	393.1	388.4	381.7	374.3
162.5°	387.6	391.1	391.1	390.5	391.1	391.1	387.6	384.5	380.3	374.1	367.8
165°	374.3	376.9	376.3	376.3	376.3	376.9	374.3	371.6	368.2	363.5	359.5
167.5°	361.6	363.5	362.8	362.8	362.8	363.5	361.6	360.4	358.0	355.2	352.1
170°	354.0	355.4	354.7	354.7	354.7	355.4	354.0	353.4	352.1	349.4	347.3
172.5°	347.6	349.0	347.8	347.2	347.8	349.0	347.6	347.5	346.6	344.5	343.0
175°	339.2	339.9	339.2	338.6	339.2	339.9	339.2	339.2	339.2	337.9	337.3
177.5°	334.2	334.7	333.6	333.6	333.6	334.7	334.2	334.7	334.7	334.2	333.6
180°	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5



TEST NUMBER: P331930-935

CATALOG NUMBER: S123DIP-S560D805U935-4F0-1E-UDD-A4

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°	8.8	8.9	8.3	8.1	7.4	7.3	6.7	6.7	6.6	6.4	6.6
90°	16.2	16.8	14.8	12.8	10.8	8.8	7.4	6.0	4.0	2.7	1.4
92.5°	78.1	103.5	113.9	85.5	56.6	38.9	28.9	23.3	18.1	12.4	8.4
95°	323.8	399.2	355.4	245.0	144.7	87.5	61.2	43.7	32.3	24.9	22.9
97.5°	661.9	618.6	452.9	268.9	155.8	101.1	72.7	55.4	45.5	39.7	39.0
100°	770.1	637.5	430.8	253.7	154.1	107.0	80.8	64.7	55.2	50.5	49.9
102.5°	775.5	602.4	398.5	240.8	156.3	114.0	90.0	75.4	66.5	62.3	61.1
105°	734.4	541.2	358.8	231.5	162.2	125.9	105.0	92.2	84.1	80.1	78.1
107.5°	662.5	487.1	333.5	230.9	173.2	141.4	122.0	109.9	102.0	98.2	96.1
110°	617.3	456.4	323.8	233.6	182.4	152.1	133.3	121.8	114.4	111.1	109.1



TEST NUMBER: P331930-935

CATALOG NUMBER: S123DIP-S560D805U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	578.0	435.9	318.4	238.9	191.6	163.4	145.2	133.7	126.3	123.0	120.9
115°	530.5	414.0	316.4	247.7	206.6	181.1	162.9	151.4	144.7	140.7	138.0
117.5°	501.8	401.1	317.6	259.3	222.7	197.3	180.6	167.7	161.5	158.2	155.1
120°	486.7	395.1	319.8	267.9	232.9	208.7	191.8	179.1	172.3	168.9	166.9
122.5°	474.3	391.4	323.5	276.0	243.7	220.0	202.1	189.9	182.5	179.2	177.2
125°	458.4	386.4	329.2	288.8	259.2	235.6	217.4	204.7	197.3	193.2	191.8
127.5°	444.4	384.0	335.6	299.3	272.6	249.9	231.7	217.6	210.0	205.0	203.0
130°	436.9	382.4	339.9	306.3	280.7	258.5	240.3	226.2	218.1	212.1	210.0
132.5°	429.9	381.8	343.2	312.7	287.7	266.0	248.4	234.3	224.5	218.0	215.4
135°	420.7	381.0	348.0	321.1	298.2	277.3	259.2	245.0	235.0	227.6	224.8
137.5°	412.8	379.5	351.3	327.3	305.5	285.4	268.5	254.6	243.8	236.5	233.7
140°	407.9	379.0	353.4	330.5	310.3	290.8	274.0	260.5	249.8	243.0	239.6
142.5°	403.6	377.9	355.0	333.7	314.1	295.1	279.4	265.9	256.2	248.9	246.1
145°	397.9	376.3	356.1	337.3	319.1	301.6	286.1	274.7	264.6	258.5	256.5
147.5°	392.2	373.8	356.1	339.4	323.1	307.1	293.9	282.8	274.1	268.2	267.0
150°	388.4	371.6	356.1	339.9	325.8	310.3	298.2	288.8	280.0	274.7	274.0
152.5°	384.1	368.9	354.5	341.0	327.4	314.1	302.5	294.2	286.5	281.1	280.9
155°	377.6	364.2	352.8	341.3	330.5	319.1	309.6	302.2	295.5	291.4	291.4
157.5°	370.4	360.0	350.4	342.0	332.3	323.1	315.8	309.5	303.6	300.3	299.8
160°	365.5	356.8	349.4	342.0	333.9	325.8	319.1	314.4	309.0	306.3	306.3
162.5°	360.7	353.5	347.2	341.4	334.4	327.4	321.8	317.6	313.3	311.2	311.2
165°	354.0	348.7	344.0	339.9	335.2	329.8	325.1	322.4	319.1	317.7	318.4
167.5°	347.8	343.9	340.8	338.9	335.1	331.2	328.2	326.3	323.8	323.1	323.9
170°	344.0	340.6	338.6	337.3	334.6	331.2	329.8	328.5	326.5	325.8	327.2
172.5°	340.2	337.9	337.0	336.7	334.6	331.7	330.9	330.1	328.6	328.5	329.3
175°	335.9	334.6	334.6	335.2	333.9	332.5	331.8	331.8	330.5	331.2	331.8
177.5°	333.0	332.5	333.0	334.2	333.0	332.5	332.5	332.5	332.0	332.5	333.0
180°	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5



TEST NUMBER: P331930-935

CATALOG NUMBER: S123DIP-S560D805U935-4F0-1E-UDD-A4

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°	7.4	7.7	8.9	9.6	11.0	12.1	12.3	12.2	12.3	12.0	11.8
90°	2.7	4.0	6.0	7.4	8.8	10.8	12.8	14.8	16.8	16.2	16.8
92.5°	12.4	18.1	23.3	28.9	38.9	56.6	85.5	113.9	103.5	78.1	56.7
95°	24.9	32.3	43.7	61.2	87.5	144.7	245.0	355.4	399.2	323.8	242.4
97.5°	39.7	45.5	55.4	72.7	101.1	155.8	268.9	452.9	618.6	661.9	604.1
100°	50.5	55.2	64.7	80.8	107.0	154.1	253.7	430.8	637.5	770.1	793.7
102.5°	62.3	66.5	75.4	90.0	114.0	156.3	240.8	398.5	602.4	775.5	856.6
105°	80.1	84.1	92.2	105.0	125.9	162.2	231.5	358.8	541.2	734.4	875.1
107.5°	98.2	102.0	109.9	122.0	141.4	173.2	230.9	333.5	487.1	662.5	822.1
110°	111.1	114.4	121.8	133.3	152.1	182.4	233.6	323.8	456.4	617.3	771.5



TEST NUMBER: P331930-935

CATALOG NUMBER: S123DIP-S560D805U935-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	123.0	126.3	133.7	145.2	163.4	191.6	238.9	318.4	435.9	578.0	721.3
115°	140.7	144.7	151.4	162.9	181.1	206.6	247.7	316.4	414.0	530.5	655.0
117.5°	158.2	161.5	167.7	180.6	197.3	222.7	259.3	317.6	401.1	501.8	606.9
120°	168.9	172.3	179.1	191.8	208.7	232.9	267.9	319.8	395.1	486.7	581.6
122.5°	179.2	182.5	189.9	202.1	220.0	243.7	276.0	323.5	391.4	474.3	561.7
125°	193.2	197.3	204.7	217.4	235.6	259.2	288.8	329.2	386.4	458.4	535.1
127.5°	205.0	210.0	217.6	231.7	249.9	272.6	299.3	335.6	384.0	444.4	512.0
130°	212.1	218.1	226.2	240.3	258.5	280.7	306.3	339.9	382.4	436.9	497.5
132.5°	218.0	224.5	234.3	248.4	266.0	287.7	312.7	343.2	381.8	429.9	484.0
135°	227.6	235.0	245.0	259.2	277.3	298.2	321.1	348.0	381.0	420.7	465.8
137.5°	236.5	243.8	254.6	268.5	285.4	305.5	327.3	351.3	379.5	412.8	449.3
140°	243.0	249.8	260.5	274.0	290.8	310.3	330.5	353.4	379.0	407.9	439.5
142.5°	248.9	256.2	265.9	279.4	295.1	314.1	333.7	355.0	377.9	403.6	430.4
145°	258.5	264.6	274.7	286.1	301.6	319.1	337.3	356.1	376.3	397.9	419.4
147.5°	268.2	274.1	282.8	293.9	307.1	323.1	339.4	356.1	373.8	392.2	410.4
150°	274.7	280.0	288.8	298.2	310.3	325.8	339.9	356.1	371.6	388.4	403.9
152.5°	281.1	286.5	294.2	302.5	314.1	327.4	341.0	354.5	368.9	384.1	398.0
155°	291.4	295.5	302.2	309.6	319.1	330.5	341.3	352.8	364.2	377.6	389.1
157.5°	300.3	303.6	309.5	315.8	323.1	332.3	342.0	350.4	360.0	370.4	379.6
160°	306.3	309.0	314.4	319.1	325.8	333.9	342.0	349.4	356.8	365.5	374.3
162.5°	311.2	313.3	317.6	321.8	327.4	334.4	341.4	347.2	353.5	360.7	367.8
165°	317.7	319.1	322.4	325.1	329.8	335.2	339.9	344.0	348.7	354.0	359.5
167.5°	323.1	323.8	326.3	328.2	331.2	335.1	338.9	340.8	343.9	347.8	352.1
170°	325.8	326.5	328.5	329.8	331.2	334.6	337.3	338.6	340.6	344.0	347.3
172.5°	328.5	328.6	330.1	330.9	331.7	334.6	336.7	337.0	337.9	340.2	343.0
175°	331.2	330.5	331.8	331.8	332.5	333.9	335.2	334.6	334.6	335.9	337.3
177.5°	332.5	332.0	332.5	332.5	332.5	333.0	334.2	333.0	332.5	333.0	333.6
180°	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5



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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°	11.7	11.5	11.5	11.7	11.5	11.5	11.8
90°	17.5	18.2	19.5	18.9	19.5	20.2	19.5
92.5°	44.9	39.7	36.2	35.0	33.0	33.7	32.5
95°	164.3	128.5	104.4	91.5	85.5	80.8	78.1
97.5°	483.9	397.0	316.5	266.8	236.5	218.3	212.6
100°	739.1	660.4	564.7	496.8	447.6	421.4	422.1
102.5°	854.9	809.0	748.4	695.5	656.6	634.6	619.1
105°	942.4	955.2	937.7	906.7	881.1	859.6	856.3
107.5°	931.3	990.3	1014.3	1014.9	1006.3	998.9	992.7
110°	895.3	980.1	1027.3	1046.0	1051.5	1050.1	1048.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	847.9	943.0	1003.5	1038.0	1054.7	1059.8	1060.1
115°	772.1	871.1	944.4	994.9	1024.5	1038.0	1041.4
117.5°	708.0	796.9	871.3	923.9	957.9	977.2	981.9
120°	672.4	753.3	821.2	874.4	912.1	928.2	932.3
122.5°	643.9	718.8	782.0	829.1	863.1	880.9	886.0
125°	608.6	673.1	727.0	770.1	799.7	816.5	821.2
127.5°	577.4	635.8	684.8	723.1	748.4	763.6	767.9
130°	558.0	612.6	658.3	694.1	718.2	732.4	737.8
132.5°	539.8	590.5	634.1	667.6	691.9	704.4	708.2
135°	513.6	557.3	595.7	628.7	648.9	661.0	665.7
137.5°	488.4	526.2	559.4	587.1	607.6	617.9	621.0
140°	473.9	506.2	535.1	560.8	579.5	590.4	589.7
142.5°	459.9	487.9	513.1	534.9	551.6	561.3	560.6
145°	441.6	463.1	482.7	499.5	513.6	519.0	520.3
147.5°	428.0	445.4	459.3	472.0	481.6	486.7	487.2
150°	419.4	433.5	446.3	456.4	463.8	467.9	467.9
152.5°	411.3	423.8	434.5	442.4	449.3	451.7	451.7
155°	399.8	409.9	418.0	424.0	429.5	430.8	431.4
157.5°	388.7	396.5	402.8	408.0	412.1	413.2	413.0
160°	381.7	388.4	393.1	397.9	401.8	401.8	401.2
162.5°	374.1	380.3	384.5	387.6	391.1	391.1	390.5
165°	363.5	368.2	371.6	374.3	376.9	376.3	376.3
167.5°	355.2	358.0	360.4	361.6	363.5	362.8	362.8
170°	349.4	352.1	353.4	354.0	355.4	354.7	354.7
172.5°	344.5	346.6	347.5	347.6	349.0	347.8	347.2
175°	337.9	339.2	339.2	339.2	339.9	339.2	338.6
177.5°	334.2	334.7	334.7	334.2	334.7	333.6	333.6
180°	332.5	332.5	332.5	332.5	332.5	332.5	332.5

(END OF REPORT)