

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: P332509-935

Luminaire Tested: **S124DIP-S350D810U935-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332509-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124DIP-S350D810U935-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 350 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 810 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3774.5 lumens
Efficiency: N/A
Efficacy: 121.0 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: Semi-Indirect

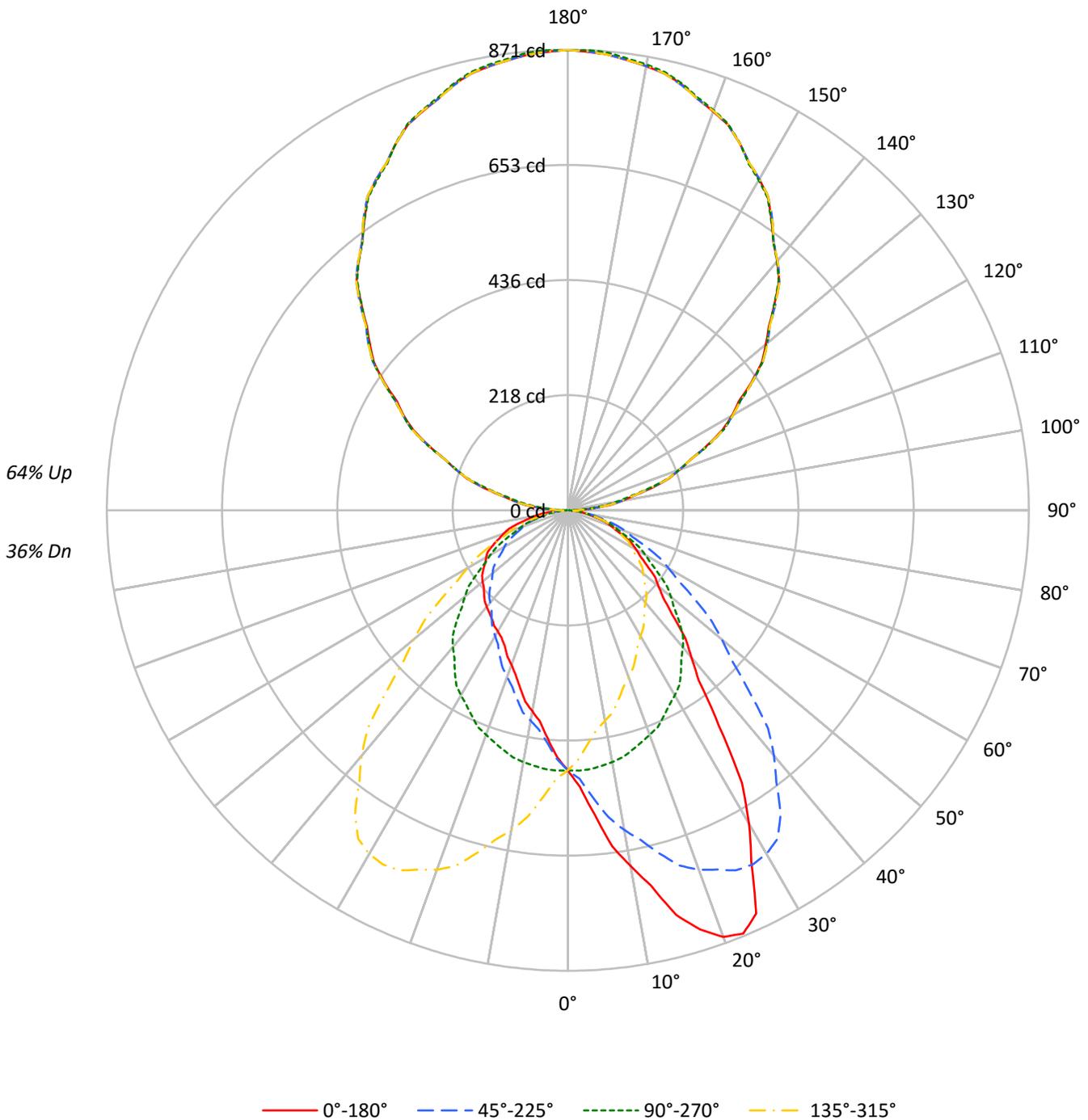
Input Watts (W): 31.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	104	104	104	104	94	94	94	94	76	76	76	59	59	59	43	43	43	36
1	95	91	87	83	86	82	79	76	66	64	62	52	50	49	38	38	37	31
2	86	79	73	68	78	72	67	63	58	55	52	46	43	41	34	33	31	26
3	79	70	63	57	71	63	57	53	52	47	44	41	38	35	30	28	27	22
4	72	62	54	48	65	56	50	45	46	41	37	36	33	30	27	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	32	29	26	25	22	20	17
6	61	49	41	36	55	45	38	33	37	32	28	29	26	23	22	20	18	15
7	56	44	37	31	51	41	34	29	33	28	25	27	23	20	20	18	16	13
8	52	40	33	28	47	37	30	26	30	25	22	24	21	18	19	16	14	12
9	49	37	29	25	44	34	27	23	28	23	19	22	19	16	17	15	13	11
10	45	34	27	22	41	31	25	20	26	21	17	21	17	15	16	13	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	3971	3971	3971	3971
5°	4676	3981	3514	3981
10°	5599	3963	3163	3963
15°	6624	3924	2906	3924
20°	7377	3882	2674	3882
25°	7496	3822	2515	3822
30°	6378	3765	2466	3765
35°	4904	3671	2466	3671
40°	3822	3561	2512	3561
45°	3186	3394	2555	3394
50°	2804	3191	2641	3191
55°	2570	2949	2747	2949
60°	2407	2730	2876	2730
65°	2243	2487	2982	2487
70°	2049	2245	3050	2245
75°	1831	1978	3013	1978
80°	1534	1623	2920	1623
85°	1130	1176	2788	1176



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.9	1.3
10°-20°	147.7	3.9
20°-30°	234.2	6.2
30°-40°	260.7	6.9
40°-50°	237.3	6.3
50°-60°	193.9	5.1
60°-70°	138.4	3.7
70°-80°	76.2	2.0
80°-90°	23.4	0.6
90°-100°	57.4	1.5
100°-110°	170.1	4.5
110°-120°	288.6	7.6
120°-130°	380.6	10.1
130°-140°	427.4	11.3
140°-150°	420.0	11.1
150°-160°	353.3	9.4
160°-170°	235.0	6.2
170°-180°	82.3	2.2
0°-30°	429.9	11.4
0°-40°	690.5	18.3
0°-60°	1121.7	29.7
0°-90°	1359.8	36.0
90°-120°	516.1	13.7
90°-150°	1744.1	46.2
90°-180°	2415.0	64.0
0°-180°	3774.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	492	492	492	492	492	
5°	577	491	434	491	577	59
15°	793	470	348	470	793	224
25°	842	429	282	429	842	371
35°	498	372	250	372	498	316
45°	279	297	224	297	279	220
55°	183	210	195	210	183	165
65°	117	130	156	130	117	116
75°	59	63	97	63	59	62
85°	12	13	30	13	12	15
90°	20	2	20	2	20	11
95°	53	40	53	40	53	55
105°	164	157	164	157	164	173
115°	291	294	291	294	291	287
125°	424	427	424	427	424	378
135°	552	551	552	551	552	426
145°	670	670	670	670	670	420
155°	767	767	767	767	767	353
165°	833	835	833	835	833	235
175°	865	869	865	869	865	82
180°	870	870	870	870	870	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9
2.5°	523.5	523.4	521.8	521.4	520.3	518.8	518.5	515.8	510.7	508.2	507.6
5°	577.0	581.2	575.8	574.8	574.2	567.5	564.0	560.0	550.6	545.1	540.8
7.5°	641.0	641.4	639.1	637.3	632.1	626.2	617.4	608.0	596.8	585.3	576.5
10°	683.0	684.7	682.0	681.7	671.2	664.7	651.7	640.7	628.0	614.0	601.2
12.5°	727.4	725.1	723.8	715.1	713.1	701.2	686.0	674.8	655.2	639.0	622.0
15°	792.6	788.2	785.3	773.4	767.4	750.9	734.8	722.4	696.9	672.6	654.3
17.5°	831.0	835.4	828.9	823.9	808.7	797.0	780.6	754.5	734.6	704.5	681.3
20°	858.7	859.1	855.4	850.3	838.4	823.6	805.7	777.2	753.4	723.4	691.6
22.5°	866.2	866.3	864.7	860.0	850.8	839.0	820.9	797.0	768.2	735.6	703.8
25°	841.5	840.8	842.6	847.9	844.5	840.8	830.3	812.6	785.7	751.3	717.0
27.5°	750.1	755.8	766.1	779.1	791.7	801.2	803.9	800.3	783.7	755.4	719.5
30°	684.2	691.2	699.0	712.0	737.3	751.7	767.6	779.6	772.9	750.3	716.9
32.5°	611.9	613.6	625.1	639.9	663.1	690.9	716.1	740.5	748.6	736.8	708.9
35°	497.6	500.5	512.9	527.5	555.9	590.0	627.8	661.7	689.6	700.8	686.5
37.5°	406.0	414.2	423.0	438.8	463.7	494.4	533.7	577.6	619.1	647.0	651.8
40°	362.7	367.8	374.1	386.2	407.3	437.5	471.3	521.4	565.7	605.6	618.6
42.5°	328.5	331.5	335.4	346.2	362.3	392.4	423.3	467.4	511.7	559.5	581.3
45°	279.1	282.2	288.8	295.1	307.3	328.0	356.8	393.0	437.7	483.7	524.1
47.5°	243.6	245.5	249.3	256.1	266.6	280.3	303.6	333.9	375.2	420.0	463.0
50°	223.3	225.0	228.0	234.1	242.1	254.3	273.5	301.8	334.2	379.2	421.4
52.5°	207.3	208.0	210.3	214.4	220.8	231.0	246.8	270.2	300.3	340.4	382.5
55°	182.6	183.4	185.5	188.5	194.0	200.5	212.5	230.1	256.3	291.2	327.7
57.5°	162.2	162.8	164.5	165.7	170.2	175.5	184.8	197.3	217.1	246.8	279.3
60°	149.1	148.8	150.8	151.8	154.9	159.4	166.5	178.5	195.8	219.6	249.6
62.5°	136.5	135.9	137.6	139.0	140.7	144.5	150.3	159.7	173.8	195.4	221.3
65°	117.4	116.6	117.6	119.2	120.8	122.9	127.2	135.5	146.7	162.2	181.9
67.5°	98.2	99.1	99.3	100.0	101.0	103.8	106.7	112.6	120.5	132.9	149.6
70°	86.8	87.0	87.8	87.8	88.4	90.9	93.3	96.8	104.5	116.0	129.6
72.5°	75.4	76.3	75.9	76.5	77.1	78.7	80.4	83.8	90.3	98.8	110.4
75°	58.7	59.3	59.3	59.5	60.1	60.7	62.2	64.6	69.3	75.6	83.5
77.5°	42.8	42.9	43.1	43.9	43.9	44.9	45.9	47.9	50.2	54.5	59.4
80°	33.0	33.4	33.2	33.7	33.7	34.4	34.9	37.3	38.3	41.2	45.0
82.5°	24.2	24.6	24.5	25.1	25.5	25.7	26.2	27.2	28.2	30.7	32.3
85°	12.2	12.7	12.2	12.7	13.3	13.4	14.0	14.3	15.1	15.7	17.1
87.5°	7.7	8.1	8.0	8.1	8.4	8.4	8.4	8.0	8.5	8.5	9.0
90°	20.2	19.9	19.6	19.3	19.0	18.4	17.5	16.6	15.7	14.8	13.6
92.5°	29.9	29.7	29.5	29.4	29.2	28.8	28.2	27.7	27.2	26.7	25.8
95°	53.2	53.2	53.2	53.2	53.2	53.0	52.5	52.1	51.6	51.1	50.1
97.5°	83.3	83.3	83.3	83.3	83.3	83.1	82.5	82.0	81.5	80.9	79.6
100°	104.4	104.4	104.4	104.4	104.4	104.2	103.9	103.6	103.3	103.0	101.6
102.5°	128.0	127.9	127.8	127.7	127.5	127.3	126.8	126.5	126.1	125.6	124.4
105°	164.3	163.8	163.3	162.9	162.5	162.0	161.5	161.1	160.7	160.2	159.6
107.5°	199.5	199.6	199.6	199.6	199.7	199.4	199.0	198.6	198.2	197.8	197.7
110°	224.8	224.4	223.9	223.5	223.0	222.9	223.3	223.5	223.9	224.1	224.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	250.6	250.6	250.5	250.4	250.3	250.3	250.4	250.4	250.5	250.6	250.8
115°	290.8	290.9	291.1	291.3	291.4	291.5	291.7	291.8	292.0	292.1	292.4
117.5°	329.0	329.3	329.6	329.9	330.2	330.6	331.1	331.7	332.2	332.7	332.9
120°	358.1	357.8	357.5	357.2	356.9	357.1	357.8	358.6	359.4	360.2	360.6
122.5°	382.4	382.9	383.4	383.9	384.5	385.0	385.6	386.0	386.5	387.0	387.3
125°	424.0	424.4	424.6	425.0	425.2	425.6	425.9	426.2	426.5	426.8	426.9
127.5°	462.7	463.0	463.2	463.4	463.6	463.9	464.3	464.5	464.9	465.1	465.4
130°	488.0	488.6	489.2	489.8	490.4	490.9	491.1	491.5	491.7	492.1	492.1
132.5°	515.0	515.1	515.4	515.7	515.9	516.2	516.4	516.8	517.0	517.4	517.5
135°	552.0	552.4	552.8	553.3	553.7	554.1	554.4	554.7	555.0	555.3	555.3
137.5°	590.9	590.7	590.6	590.6	590.5	590.6	591.1	591.4	591.9	592.2	591.9
140°	614.6	614.7	614.8	615.0	615.2	615.3	615.4	615.6	615.8	615.9	615.9
142.5°	638.3	638.3	638.3	638.3	638.3	638.4	638.4	638.4	638.5	638.5	638.6
145°	670.5	670.9	671.3	671.8	672.2	672.5	672.7	672.8	673.0	673.1	673.0
147.5°	703.0	703.2	703.3	703.4	703.6	703.7	703.9	704.0	704.1	704.2	704.3
150°	722.9	723.1	723.2	723.4	723.5	723.6	723.6	723.6	723.6	723.6	723.6
152.5°	741.2	741.7	742.0	742.4	742.8	742.8	742.4	742.1	741.8	741.4	741.2
155°	766.7	767.2	767.8	768.4	769.0	769.0	768.4	767.8	767.2	766.7	766.8
157.5°	789.5	790.0	790.5	791.0	791.4	791.5	791.1	790.6	790.1	789.7	789.7
160°	802.4	803.1	803.8	804.6	805.4	805.5	805.0	804.6	804.2	803.7	803.8
162.5°	815.8	816.6	817.3	818.0	818.8	818.8	817.9	817.2	816.4	815.5	815.7
165°	833.4	833.9	834.5	835.1	835.7	835.6	834.7	833.8	832.8	832.0	832.2
167.5°	845.8	846.8	847.7	848.6	849.5	849.5	848.7	847.7	846.9	845.9	845.9
170°	852.8	853.9	855.0	856.0	857.0	857.1	856.2	855.3	854.4	853.5	853.3
172.5°	858.8	859.8	860.8	861.9	863.0	863.0	861.9	860.9	859.9	858.9	858.8
175°	865.0	866.0	867.0	868.1	869.2	869.2	868.1	867.0	866.0	865.0	865.1
177.5°	868.1	869.2	870.1	871.1	872.0	872.1	871.2	870.4	869.5	868.7	868.7
180°	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9
2.5°	507.7	505.4	503.8	502.5	498.9	496.8	495.2	492.9	490.3	487.5	484.1
5°	536.5	529.6	524.5	516.8	509.5	503.3	497.0	491.3	484.4	476.8	471.3
7.5°	566.8	556.5	543.3	531.8	518.9	507.7	497.7	487.5	476.8	466.4	456.9
10°	586.1	572.8	558.1	540.8	524.5	510.1	496.6	483.5	470.9	458.3	447.5
12.5°	606.7	590.2	568.5	548.3	530.0	510.7	494.5	478.5	463.2	450.0	437.4
15°	634.6	610.7	585.7	558.5	534.5	511.9	489.7	469.5	452.4	434.8	422.6
17.5°	651.6	622.1	593.5	565.2	536.1	507.5	483.5	460.3	438.9	421.5	406.0
20°	662.9	633.5	597.9	569.6	534.9	505.6	477.9	451.9	429.6	411.0	395.1
22.5°	672.6	638.8	603.0	565.8	531.3	500.2	469.8	443.8	420.9	401.4	386.2
25°	678.0	639.0	600.3	563.2	524.1	487.2	459.7	429.1	404.7	384.1	367.8
27.5°	678.6	636.9	593.1	551.9	511.5	477.2	442.5	415.1	389.8	368.0	352.3
30°	676.7	633.4	586.3	541.7	501.1	463.8	433.6	403.9	378.0	356.4	340.1
32.5°	671.0	625.9	577.5	530.2	488.2	451.7	420.6	392.3	367.0	345.8	328.6
35°	654.5	609.8	558.4	509.2	466.2	429.4	401.2	372.5	347.2	327.1	310.6
37.5°	628.7	588.4	536.0	485.2	442.9	405.9	378.0	352.1	329.2	308.8	291.9
40°	606.2	570.8	518.1	468.6	423.0	387.8	361.7	337.9	315.2	295.8	279.7
42.5°	580.3	549.4	500.9	448.5	404.4	369.0	343.6	322.2	300.9	283.0	266.9
45°	534.1	513.7	468.0	419.6	373.7	340.3	316.1	297.3	279.4	261.8	248.4
47.5°	481.0	470.8	432.4	386.3	342.9	309.9	288.9	271.6	255.8	241.0	229.1
50°	445.2	440.3	407.2	362.7	321.2	290.2	269.0	254.1	240.6	227.6	216.4
52.5°	410.0	409.8	379.9	339.2	300.7	271.0	249.9	236.0	224.4	213.8	203.7
55°	356.2	361.9	338.5	302.2	267.8	240.8	221.9	209.5	201.3	192.6	185.0
57.5°	306.8	316.2	296.9	264.9	236.2	211.5	194.9	185.6	176.9	171.6	166.1
60°	274.5	283.4	268.4	241.5	214.4	193.2	177.5	169.1	161.6	157.9	154.0
62.5°	245.8	253.7	242.6	217.7	194.2	173.7	160.5	152.5	147.4	143.4	140.9
65°	204.8	211.5	201.9	183.8	163.6	147.3	136.6	130.2	125.4	123.7	120.8
67.5°	165.6	171.7	166.5	151.1	134.9	122.5	114.1	108.1	105.1	103.8	101.7
70°	142.2	148.4	142.8	129.4	116.9	106.6	98.6	95.1	92.1	91.5	88.7
72.5°	122.5	126.7	121.1	110.6	100.0	91.3	85.1	81.5	79.9	78.8	77.2
75°	91.9	95.6	91.9	83.8	76.2	70.1	64.8	63.4	61.6	61.0	59.9
77.5°	65.0	68.2	65.4	60.4	54.7	49.9	47.1	45.3	44.9	43.8	44.3
80°	49.7	51.7	49.1	45.6	41.2	37.9	35.9	34.9	33.7	33.2	34.0
82.5°	35.7	36.6	35.2	32.9	29.6	27.5	26.1	24.9	24.6	24.7	24.7
85°	18.5	18.3	18.2	16.1	15.1	13.7	12.8	12.7	12.4	12.8	13.3
87.5°	8.7	8.6	8.2	7.2	6.5	5.6	5.2	4.6	5.2	5.6	6.1
90°	12.4	11.2	10.0	8.6	7.0	5.3	3.7	2.0	3.7	5.3	7.0
92.5°	25.0	24.1	23.3	22.0	20.1	18.2	16.3	14.4	16.3	18.2	20.1
95°	49.1	48.0	47.0	45.8	44.4	43.0	41.8	40.4	41.8	43.0	44.4
97.5°	78.4	77.2	76.0	74.8	73.8	72.7	71.6	70.5	71.6	72.7	73.8
100°	100.3	98.9	97.6	96.6	96.0	95.4	94.8	94.3	94.8	95.4	96.0
102.5°	123.1	121.9	120.7	119.9	119.8	119.5	119.2	119.0	119.2	119.5	119.8
105°	159.0	158.4	157.8	157.5	157.3	157.1	157.0	156.9	157.0	157.1	157.3
107.5°	197.6	197.5	197.4	197.3	197.1	196.9	196.7	196.6	196.7	196.9	197.1
110°	224.5	224.6	224.7	224.6	224.4	224.0	223.8	223.5	223.8	224.0	224.4



TEST NUMBER: P332509-935

CATALOG NUMBER: S124DIP-S350D810U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	251.1	251.3	251.6	251.8	251.7	251.6	251.5	251.5	251.5	251.6	251.7
115°	292.7	293.0	293.3	293.5	293.5	293.5	293.5	293.5	293.5	293.5	293.5
117.5°	333.0	333.3	333.5	333.6	333.4	333.3	333.2	333.0	333.2	333.3	333.4
120°	361.0	361.4	361.9	361.9	361.3	360.7	360.1	359.5	360.1	360.7	361.3
122.5°	387.4	387.7	387.9	387.9	387.6	387.4	387.1	386.9	387.1	387.4	387.6
125°	427.1	427.2	427.3	427.4	427.4	427.4	427.4	427.4	427.4	427.4	427.4
127.5°	465.6	465.8	466.1	466.0	465.5	465.1	464.6	464.2	464.6	465.1	465.5
130°	492.1	492.1	492.1	491.8	491.4	490.9	490.5	490.0	490.5	490.9	491.4
132.5°	517.6	517.7	517.8	517.7	517.4	517.1	516.8	516.4	516.8	517.1	517.4
135°	555.3	555.3	555.3	554.9	554.0	553.1	552.2	551.3	552.2	553.1	554.0
137.5°	591.8	591.5	591.2	590.9	590.5	590.0	589.7	589.3	589.7	590.0	590.5
140°	615.9	615.9	615.9	615.8	615.4	615.2	614.8	614.6	614.8	615.2	615.4
142.5°	638.8	638.9	639.0	638.9	638.6	638.3	638.0	637.7	638.0	638.3	638.6
145°	672.8	672.7	672.5	672.2	671.6	671.0	670.4	669.8	670.4	671.0	671.6
147.5°	704.5	704.6	704.7	704.4	703.7	702.9	702.2	701.5	702.2	702.9	703.7
150°	723.6	723.6	723.6	723.3	722.7	722.1	721.5	720.9	721.5	722.1	722.7
152.5°	741.1	741.0	740.9	740.6	740.3	739.9	739.6	739.3	739.6	739.9	740.3
155°	767.0	767.2	767.2	767.3	767.3	767.3	767.3	767.3	767.3	767.3	767.3
157.5°	789.8	789.8	789.8	790.0	790.2	790.5	790.7	791.1	790.7	790.5	790.2
160°	804.0	804.2	804.3	804.4	804.6	804.8	804.9	805.0	804.9	804.8	804.6
162.5°	815.9	816.0	816.1	816.4	816.8	817.2	817.6	817.9	817.6	817.2	816.8
165°	832.6	832.8	833.2	833.5	834.0	834.5	834.9	835.3	834.9	834.5	834.0
167.5°	845.9	845.8	845.8	846.2	846.8	847.4	848.0	848.7	848.0	847.4	846.8
170°	853.3	853.1	852.9	853.3	853.9	854.7	855.5	856.2	855.5	854.7	853.9
172.5°	858.8	858.8	858.8	859.1	859.7	860.3	861.0	861.6	861.0	860.3	859.7
175°	865.2	865.4	865.6	866.0	866.8	867.5	868.2	869.0	868.2	867.5	866.8
177.5°	868.7	868.7	868.7	869.0	869.6	870.2	870.8	871.4	870.8	870.2	869.6
180°	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3



TEST NUMBER: P332509-935

CATALOG NUMBER: S124DIP-S350D810U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9
2.5°	482.4	481.0	478.9	476.0	473.5	470.9	470.2	469.2	471.2	469.6	469.1
5°	466.7	462.4	456.8	450.6	446.9	441.6	440.6	438.5	436.4	436.3	434.2
7.5°	449.9	443.6	436.4	430.0	424.0	418.2	414.4	413.6	410.6	408.8	406.8
10°	439.1	431.4	423.0	416.9	410.0	403.9	399.6	397.2	395.1	392.9	390.8
12.5°	426.5	418.2	411.3	404.7	396.5	391.8	384.8	380.6	380.1	380.1	374.9
15°	411.6	403.5	392.9	383.5	379.0	370.1	366.2	361.3	358.3	355.2	352.8
17.5°	394.7	384.5	376.3	365.5	357.0	349.8	344.7	341.8	337.2	332.9	329.8
20°	384.1	373.3	364.5	353.1	343.8	335.0	330.7	326.7	323.2	319.5	316.1
22.5°	373.3	362.1	351.4	340.3	331.6	322.3	318.1	312.6	309.4	307.3	303.8
25°	356.4	344.1	331.9	321.3	312.4	304.2	298.8	294.5	290.8	289.1	286.9
27.5°	337.9	325.8	314.0	302.0	291.8	285.9	281.5	278.3	276.1	274.0	272.9
30°	326.2	313.6	301.0	289.7	280.4	274.5	270.4	268.2	266.6	265.5	264.5
32.5°	314.4	301.9	288.6	278.4	269.9	264.7	261.6	259.3	258.6	258.2	257.8
35°	295.2	282.7	270.4	261.2	253.3	251.2	248.6	247.4	246.9	248.4	249.0
37.5°	276.8	265.1	253.8	245.0	239.7	236.8	235.8	235.9	237.4	238.6	240.0
40°	264.9	253.5	242.9	235.1	230.2	228.4	228.0	229.0	230.7	232.1	233.8
42.5°	253.3	242.1	232.5	225.2	221.8	220.1	220.3	221.4	223.7	225.4	227.8
45°	235.4	226.0	216.6	210.7	207.8	208.3	208.3	210.1	212.3	215.0	217.7
47.5°	218.4	209.0	201.3	196.3	194.8	194.5	195.6	198.0	201.2	204.5	208.2
50°	207.1	198.0	191.3	186.8	185.2	185.8	187.4	189.7	193.6	197.7	201.6
52.5°	195.4	187.3	181.1	176.9	175.7	176.8	178.5	182.0	185.5	189.9	194.5
55°	177.5	170.6	165.7	162.6	162.2	162.8	164.6	168.5	173.4	178.9	183.4
57.5°	159.6	153.8	149.3	147.2	147.4	148.0	151.0	155.6	160.8	166.7	172.5
60°	147.5	142.2	138.5	136.9	137.2	138.4	142.1	146.3	152.8	158.5	164.6
62.5°	136.1	131.5	127.9	126.5	126.2	128.9	132.4	136.8	143.4	149.7	156.4
65°	117.8	114.1	111.2	110.5	111.1	113.1	117.6	123.5	129.0	135.7	142.7
67.5°	99.9	96.9	94.9	95.2	96.0	99.0	102.7	107.8	114.1	121.1	127.9
70°	88.4	85.6	83.9	84.1	85.4	89.0	92.3	97.4	104.1	111.2	116.9
72.5°	76.7	74.8	73.4	74.2	75.4	77.9	82.1	87.1	93.1	99.7	105.7
75°	58.9	58.9	58.1	58.7	60.5	62.9	66.0	71.3	77.2	82.6	87.4
77.5°	43.7	43.2	43.7	44.5	45.5	48.5	52.0	55.8	60.2	65.5	69.6
80°	33.4	33.7	34.6	35.9	36.2	38.5	42.2	45.6	49.1	53.6	57.4
82.5°	25.1	25.3	25.8	27.4	27.8	30.2	32.5	36.0	39.2	42.2	45.4
85°	13.7	13.7	14.6	15.3	16.3	17.9	19.4	21.4	24.3	26.3	29.4
87.5°	7.0	7.2	8.1	8.7	9.4	10.4	10.9	12.9	13.8	14.7	16.4
90°	8.6	10.0	11.2	12.4	13.6	14.8	15.7	16.6	17.5	18.4	19.0
92.5°	22.0	23.3	24.1	25.0	25.8	26.7	27.2	27.7	28.2	28.8	29.2
95°	45.8	47.0	48.0	49.1	50.1	51.1	51.6	52.1	52.5	53.0	53.2
97.5°	74.8	76.0	77.2	78.4	79.6	80.9	81.5	82.0	82.5	83.1	83.3
100°	96.6	97.6	98.9	100.3	101.6	103.0	103.3	103.6	103.9	104.2	104.4
102.5°	119.9	120.7	121.9	123.1	124.4	125.6	126.1	126.5	126.8	127.3	127.5
105°	157.5	157.8	158.4	159.0	159.6	160.2	160.7	161.1	161.5	162.0	162.5
107.5°	197.3	197.4	197.5	197.6	197.7	197.8	198.2	198.6	199.0	199.4	199.7
110°	224.6	224.7	224.6	224.5	224.3	224.1	223.9	223.5	223.3	222.9	223.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	251.8	251.6	251.3	251.1	250.8	250.6	250.5	250.4	250.4	250.3	250.3
115°	293.5	293.3	293.0	292.7	292.4	292.1	292.0	291.8	291.7	291.5	291.4
117.5°	333.6	333.5	333.3	333.0	332.9	332.7	332.2	331.7	331.1	330.6	330.2
120°	361.9	361.9	361.4	361.0	360.6	360.2	359.4	358.6	357.8	357.1	356.9
122.5°	387.9	387.9	387.7	387.4	387.3	387.0	386.5	386.0	385.6	385.0	384.5
125°	427.4	427.3	427.2	427.1	426.9	426.8	426.5	426.2	425.9	425.6	425.2
127.5°	466.0	466.1	465.8	465.6	465.4	465.1	464.9	464.5	464.3	463.9	463.6
130°	491.8	492.1	492.1	492.1	492.1	492.1	491.7	491.5	491.1	490.9	490.4
132.5°	517.7	517.8	517.7	517.6	517.5	517.4	517.0	516.8	516.4	516.2	515.9
135°	554.9	555.3	555.3	555.3	555.3	555.3	555.0	554.7	554.4	554.1	553.7
137.5°	590.9	591.2	591.5	591.8	591.9	592.2	591.9	591.4	591.1	590.6	590.5
140°	615.8	615.9	615.9	615.9	615.9	615.9	615.8	615.6	615.4	615.3	615.2
142.5°	638.9	639.0	638.9	638.8	638.6	638.5	638.5	638.4	638.4	638.4	638.3
145°	672.2	672.5	672.7	672.8	673.0	673.1	673.0	672.8	672.7	672.5	672.2
147.5°	704.4	704.7	704.6	704.5	704.3	704.2	704.1	704.0	703.9	703.7	703.6
150°	723.3	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.5
152.5°	740.6	740.9	741.0	741.1	741.2	741.4	741.8	742.1	742.4	742.8	742.8
155°	767.3	767.2	767.2	767.0	766.8	766.7	767.2	767.8	768.4	769.0	769.0
157.5°	790.0	789.8	789.8	789.8	789.7	789.7	790.1	790.6	791.1	791.5	791.4
160°	804.4	804.3	804.2	804.0	803.8	803.7	804.2	804.6	805.0	805.5	805.4
162.5°	816.4	816.1	816.0	815.9	815.7	815.5	816.4	817.2	817.9	818.8	818.8
165°	833.5	833.2	832.8	832.6	832.2	832.0	832.8	833.8	834.7	835.6	835.7
167.5°	846.2	845.8	845.8	845.9	845.9	845.9	846.9	847.7	848.7	849.5	849.5
170°	853.3	852.9	853.1	853.3	853.3	853.5	854.4	855.3	856.2	857.1	857.0
172.5°	859.1	858.8	858.8	858.8	858.8	858.9	859.9	860.9	861.9	863.0	863.0
175°	866.0	865.6	865.4	865.2	865.1	865.0	866.0	867.0	868.1	869.2	869.2
177.5°	869.0	868.7	868.7	868.7	868.7	868.7	869.5	870.4	871.2	872.1	872.0
180°	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9
2.5°	468.7	468.5	467.3	467.1	467.3	468.5	468.7	469.1	469.6	471.2	469.2
5°	433.0	432.0	431.4	433.6	431.4	432.0	433.0	434.2	436.3	436.4	438.5
7.5°	406.0	405.3	403.5	402.9	403.5	405.3	406.0	406.8	408.8	410.6	413.6
10°	388.8	388.0	386.3	385.9	386.3	388.0	388.8	390.8	392.9	395.1	397.2
12.5°	372.1	370.6	370.2	370.7	370.2	370.6	372.1	374.9	380.1	380.1	380.6
15°	350.1	349.2	347.0	347.7	347.0	349.2	350.1	352.8	355.2	358.3	361.3
17.5°	328.3	327.4	324.6	327.0	324.6	327.4	328.3	329.8	332.9	337.2	341.8
20°	314.6	313.0	311.6	311.3	311.6	313.0	314.6	316.1	319.5	323.2	326.7
22.5°	301.6	300.1	300.0	298.7	300.0	300.1	301.6	303.8	307.3	309.4	312.6
25°	285.2	283.9	283.4	282.4	283.4	283.9	285.2	286.9	289.1	290.8	294.5
27.5°	272.8	272.1	271.3	271.6	271.3	272.1	272.8	272.9	274.0	276.1	278.3
30°	265.1	264.9	264.5	264.5	264.5	264.9	265.1	264.5	265.5	266.6	268.2
32.5°	258.7	258.7	259.0	259.0	259.0	258.7	258.7	257.8	258.2	258.6	259.3
35°	249.9	250.5	250.8	250.2	250.8	250.5	249.9	249.0	248.4	246.9	247.4
37.5°	241.8	242.4	243.0	243.7	243.0	242.4	241.8	240.0	238.6	237.4	235.9
40°	235.6	236.9	237.4	238.4	237.4	236.9	235.6	233.8	232.1	230.7	229.0
42.5°	229.7	231.3	232.3	232.6	232.3	231.3	229.7	227.8	225.4	223.7	221.4
45°	220.7	222.3	223.8	223.8	223.8	222.3	220.7	217.7	215.0	212.3	210.1
47.5°	211.4	213.7	215.2	215.5	215.2	213.7	211.4	208.2	204.5	201.2	198.0
50°	205.0	207.8	209.3	210.3	209.3	207.8	205.0	201.6	197.7	193.6	189.7
52.5°	198.8	201.6	203.5	204.1	203.5	201.6	198.8	194.5	189.9	185.5	182.0
55°	188.0	192.2	194.4	195.2	194.4	192.2	188.0	183.4	178.9	173.4	168.5
57.5°	178.0	181.8	184.3	184.9	184.3	181.8	178.0	172.5	166.7	160.8	155.6
60°	170.1	174.3	177.5	178.1	177.5	174.3	170.1	164.6	158.5	152.8	146.3
62.5°	162.1	166.4	169.4	170.9	169.4	166.4	162.1	156.4	149.7	143.4	136.8
65°	148.4	152.7	155.5	156.1	155.5	152.7	148.4	142.7	135.7	129.0	123.5
67.5°	133.3	137.6	139.4	140.6	139.4	137.6	133.3	127.9	121.1	114.1	107.8
70°	122.7	126.1	128.2	129.2	128.2	126.1	122.7	116.9	111.2	104.1	97.4
72.5°	110.6	114.3	116.6	116.8	116.6	114.3	110.6	105.7	99.7	93.1	87.1
75°	92.1	95.4	96.6	96.6	96.6	95.4	92.1	87.4	82.6	77.2	71.3
77.5°	72.9	74.6	76.1	76.5	76.1	74.6	72.9	69.6	65.5	60.2	55.8
80°	60.5	61.6	62.8	62.8	62.8	61.6	60.5	57.4	53.6	49.1	45.6
82.5°	47.8	48.6	49.9	49.7	49.9	48.6	47.8	45.4	42.2	39.2	36.0
85°	28.9	30.7	30.6	30.1	30.6	30.7	28.9	29.4	26.3	24.3	21.4
87.5°	16.9	17.1	17.7	18.1	17.7	17.1	16.9	16.4	14.7	13.8	12.9
90°	19.3	19.6	19.9	20.2	19.9	19.6	19.3	19.0	18.4	17.5	16.6
92.5°	29.4	29.5	29.7	29.9	29.7	29.5	29.4	29.2	28.8	28.2	27.7
95°	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.0	52.5	52.1
97.5°	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.1	82.5	82.0
100°	104.4	104.4	104.4	104.4	104.4	104.4	104.4	104.4	104.2	103.9	103.6
102.5°	127.7	127.8	127.9	128.0	127.9	127.8	127.7	127.5	127.3	126.8	126.5
105°	162.9	163.3	163.8	164.3	163.8	163.3	162.9	162.5	162.0	161.5	161.1
107.5°	199.6	199.6	199.6	199.5	199.6	199.6	199.6	199.7	199.4	199.0	198.6
110°	223.5	223.9	224.4	224.8	224.4	223.9	223.5	223.0	222.9	223.3	223.5



TEST NUMBER: P332509-935

CATALOG NUMBER: S124DIP-S350D810U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	250.4	250.5	250.6	250.6	250.6	250.5	250.4	250.3	250.3	250.4	250.4
115°	291.3	291.1	290.9	290.8	290.9	291.1	291.3	291.4	291.5	291.7	291.8
117.5°	329.9	329.6	329.3	329.0	329.3	329.6	329.9	330.2	330.6	331.1	331.7
120°	357.2	357.5	357.8	358.1	357.8	357.5	357.2	356.9	357.1	357.8	358.6
122.5°	383.9	383.4	382.9	382.4	382.9	383.4	383.9	384.5	385.0	385.6	386.0
125°	425.0	424.6	424.4	424.0	424.4	424.6	425.0	425.2	425.6	425.9	426.2
127.5°	463.4	463.2	463.0	462.7	463.0	463.2	463.4	463.6	463.9	464.3	464.5
130°	489.8	489.2	488.6	488.0	488.6	489.2	489.8	490.4	490.9	491.1	491.5
132.5°	515.7	515.4	515.1	515.0	515.1	515.4	515.7	515.9	516.2	516.4	516.8
135°	553.3	552.8	552.4	552.0	552.4	552.8	553.3	553.7	554.1	554.4	554.7
137.5°	590.6	590.6	590.7	590.9	590.7	590.6	590.6	590.5	590.6	591.1	591.4
140°	615.0	614.8	614.7	614.6	614.7	614.8	615.0	615.2	615.3	615.4	615.6
142.5°	638.3	638.3	638.3	638.3	638.3	638.3	638.3	638.3	638.4	638.4	638.4
145°	671.8	671.3	670.9	670.5	670.9	671.3	671.8	672.2	672.5	672.7	672.8
147.5°	703.4	703.3	703.2	703.0	703.2	703.3	703.4	703.6	703.7	703.9	704.0
150°	723.4	723.2	723.1	722.9	723.1	723.2	723.4	723.5	723.6	723.6	723.6
152.5°	742.4	742.0	741.7	741.2	741.7	742.0	742.4	742.8	742.8	742.4	742.1
155°	768.4	767.8	767.2	766.7	767.2	767.8	768.4	769.0	769.0	768.4	767.8
157.5°	791.0	790.5	790.0	789.5	790.0	790.5	791.0	791.4	791.5	791.1	790.6
160°	804.6	803.8	803.1	802.4	803.1	803.8	804.6	805.4	805.5	805.0	804.6
162.5°	818.0	817.3	816.6	815.8	816.6	817.3	818.0	818.8	818.8	817.9	817.2
165°	835.1	834.5	833.9	833.4	833.9	834.5	835.1	835.7	835.6	834.7	833.8
167.5°	848.6	847.7	846.8	845.8	846.8	847.7	848.6	849.5	849.5	848.7	847.7
170°	856.0	855.0	853.9	852.8	853.9	855.0	856.0	857.0	857.1	856.2	855.3
172.5°	861.9	860.8	859.8	858.8	859.8	860.8	861.9	863.0	863.0	861.9	860.9
175°	868.1	867.0	866.0	865.0	866.0	867.0	868.1	869.2	869.2	868.1	867.0
177.5°	871.1	870.1	869.2	868.1	869.2	870.1	871.1	872.0	872.1	871.2	870.4
180°	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3



TEST NUMBER: P332509-935

CATALOG NUMBER: S124DIP-S350D810U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9
2.5°	470.2	470.9	473.5	476.0	478.9	481.0	482.4	484.1	487.5	490.3	492.9
5°	440.6	441.6	446.9	450.6	456.8	462.4	466.7	471.3	476.8	484.4	491.3
7.5°	414.4	418.2	424.0	430.0	436.4	443.6	449.9	456.9	466.4	476.8	487.5
10°	399.6	403.9	410.0	416.9	423.0	431.4	439.1	447.5	458.3	470.9	483.5
12.5°	384.8	391.8	396.5	404.7	411.3	418.2	426.5	437.4	450.0	463.2	478.5
15°	366.2	370.1	379.0	383.5	392.9	403.5	411.6	422.6	434.8	452.4	469.5
17.5°	344.7	349.8	357.0	365.5	376.3	384.5	394.7	406.0	421.5	438.9	460.3
20°	330.7	335.0	343.8	353.1	364.5	373.3	384.1	395.1	411.0	429.6	451.9
22.5°	318.1	322.3	331.6	340.3	351.4	362.1	373.3	386.2	401.4	420.9	443.8
25°	298.8	304.2	312.4	321.3	331.9	344.1	356.4	367.8	384.1	404.7	429.1
27.5°	281.5	285.9	291.8	302.0	314.0	325.8	337.9	352.3	368.0	389.8	415.1
30°	270.4	274.5	280.4	289.7	301.0	313.6	326.2	340.1	356.4	378.0	403.9
32.5°	261.6	264.7	269.9	278.4	288.6	301.9	314.4	328.6	345.8	367.0	392.3
35°	248.6	251.2	253.3	261.2	270.4	282.7	295.2	310.6	327.1	347.2	372.5
37.5°	235.8	236.8	239.7	245.0	253.8	265.1	276.8	291.9	308.8	329.2	352.1
40°	228.0	228.4	230.2	235.1	242.9	253.5	264.9	279.7	295.8	315.2	337.9
42.5°	220.3	220.1	221.8	225.2	232.5	242.1	253.3	266.9	283.0	300.9	322.2
45°	208.3	208.3	207.8	210.7	216.6	226.0	235.4	248.4	261.8	279.4	297.3
47.5°	195.6	194.5	194.8	196.3	201.3	209.0	218.4	229.1	241.0	255.8	271.6
50°	187.4	185.8	185.2	186.8	191.3	198.0	207.1	216.4	227.6	240.6	254.1
52.5°	178.5	176.8	175.7	176.9	181.1	187.3	195.4	203.7	213.8	224.4	236.0
55°	164.6	162.8	162.2	162.6	165.7	170.6	177.5	185.0	192.6	201.3	209.5
57.5°	151.0	148.0	147.4	147.2	149.3	153.8	159.6	166.1	171.6	176.9	185.6
60°	142.1	138.4	137.2	136.9	138.5	142.2	147.5	154.0	157.9	161.6	169.1
62.5°	132.4	128.9	126.2	126.5	127.9	131.5	136.1	140.9	143.4	147.4	152.5
65°	117.6	113.1	111.1	110.5	111.2	114.1	117.8	120.8	123.7	125.4	130.2
67.5°	102.7	99.0	96.0	95.2	94.9	96.9	99.9	101.7	103.8	105.1	108.1
70°	92.3	89.0	85.4	84.1	83.9	85.6	88.4	88.7	91.5	92.1	95.1
72.5°	82.1	77.9	75.4	74.2	73.4	74.8	76.7	77.2	78.8	79.9	81.5
75°	66.0	62.9	60.5	58.7	58.1	58.9	58.9	59.9	61.0	61.6	63.4
77.5°	52.0	48.5	45.5	44.5	43.7	43.2	43.7	44.3	43.8	44.9	45.3
80°	42.2	38.5	36.2	35.9	34.6	33.7	33.4	34.0	33.2	33.7	34.9
82.5°	32.5	30.2	27.8	27.4	25.8	25.3	25.1	24.7	24.7	24.6	24.9
85°	19.4	17.9	16.3	15.3	14.6	13.7	13.7	13.3	12.8	12.4	12.7
87.5°	10.9	10.4	9.4	8.7	8.1	7.2	7.0	6.1	5.6	5.2	4.6
90°	15.7	14.8	13.6	12.4	11.2	10.0	8.6	7.0	5.3	3.7	2.0
92.5°	27.2	26.7	25.8	25.0	24.1	23.3	22.0	20.1	18.2	16.3	14.4
95°	51.6	51.1	50.1	49.1	48.0	47.0	45.8	44.4	43.0	41.8	40.4
97.5°	81.5	80.9	79.6	78.4	77.2	76.0	74.8	73.8	72.7	71.6	70.5
100°	103.3	103.0	101.6	100.3	98.9	97.6	96.6	96.0	95.4	94.8	94.3
102.5°	126.1	125.6	124.4	123.1	121.9	120.7	119.9	119.8	119.5	119.2	119.0
105°	160.7	160.2	159.6	159.0	158.4	157.8	157.5	157.3	157.1	157.0	156.9
107.5°	198.2	197.8	197.7	197.6	197.5	197.4	197.3	197.1	196.9	196.7	196.6
110°	223.9	224.1	224.3	224.5	224.6	224.7	224.6	224.4	224.0	223.8	223.5



TEST NUMBER: P332509-935

CATALOG NUMBER: S124DIP-S350D810U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	250.5	250.6	250.8	251.1	251.3	251.6	251.8	251.7	251.6	251.5	251.5
115°	292.0	292.1	292.4	292.7	293.0	293.3	293.5	293.5	293.5	293.5	293.5
117.5°	332.2	332.7	332.9	333.0	333.3	333.5	333.6	333.4	333.3	333.2	333.0
120°	359.4	360.2	360.6	361.0	361.4	361.9	361.9	361.3	360.7	360.1	359.5
122.5°	386.5	387.0	387.3	387.4	387.7	387.9	387.9	387.6	387.4	387.1	386.9
125°	426.5	426.8	426.9	427.1	427.2	427.3	427.4	427.4	427.4	427.4	427.4
127.5°	464.9	465.1	465.4	465.6	465.8	466.1	466.0	465.5	465.1	464.6	464.2
130°	491.7	492.1	492.1	492.1	492.1	492.1	491.8	491.4	490.9	490.5	490.0
132.5°	517.0	517.4	517.5	517.6	517.7	517.8	517.7	517.4	517.1	516.8	516.4
135°	555.0	555.3	555.3	555.3	555.3	555.3	554.9	554.0	553.1	552.2	551.3
137.5°	591.9	592.2	591.9	591.8	591.5	591.2	590.9	590.5	590.0	589.7	589.3
140°	615.8	615.9	615.9	615.9	615.9	615.9	615.8	615.4	615.2	614.8	614.6
142.5°	638.5	638.5	638.6	638.8	638.9	639.0	638.9	638.6	638.3	638.0	637.7
145°	673.0	673.1	673.0	672.8	672.7	672.5	672.2	671.6	671.0	670.4	669.8
147.5°	704.1	704.2	704.3	704.5	704.6	704.7	704.4	703.7	702.9	702.2	701.5
150°	723.6	723.6	723.6	723.6	723.6	723.6	723.3	722.7	722.1	721.5	720.9
152.5°	741.8	741.4	741.2	741.1	741.0	740.9	740.6	740.3	739.9	739.6	739.3
155°	767.2	766.7	766.8	767.0	767.2	767.2	767.3	767.3	767.3	767.3	767.3
157.5°	790.1	789.7	789.7	789.8	789.8	789.8	790.0	790.2	790.5	790.7	791.1
160°	804.2	803.7	803.8	804.0	804.2	804.3	804.4	804.6	804.8	804.9	805.0
162.5°	816.4	815.5	815.7	815.9	816.0	816.1	816.4	816.8	817.2	817.6	817.9
165°	832.8	832.0	832.2	832.6	832.8	833.2	833.5	834.0	834.5	834.9	835.3
167.5°	846.9	845.9	845.9	845.9	845.8	845.8	846.2	846.8	847.4	848.0	848.7
170°	854.4	853.5	853.3	853.3	853.1	852.9	853.3	853.9	854.7	855.5	856.2
172.5°	859.9	858.9	858.8	858.8	858.8	858.8	859.1	859.7	860.3	861.0	861.6
175°	866.0	865.0	865.1	865.2	865.4	865.6	866.0	866.8	867.5	868.2	869.0
177.5°	869.5	868.7	868.7	868.7	868.7	868.7	869.0	869.6	870.2	870.8	871.4
180°	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3



TEST NUMBER: P332509-935

CATALOG NUMBER: S124DIP-S350D810U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9
2.5°	495.2	496.8	498.9	502.5	503.8	505.4	507.7	507.6	508.2	510.7	515.8
5°	497.0	503.3	509.5	516.8	524.5	529.6	536.5	540.8	545.1	550.6	560.0
7.5°	497.7	507.7	518.9	531.8	543.3	556.5	566.8	576.5	585.3	596.8	608.0
10°	496.6	510.1	524.5	540.8	558.1	572.8	586.1	601.2	614.0	628.0	640.7
12.5°	494.5	510.7	530.0	548.3	568.5	590.2	606.7	622.0	639.0	655.2	674.8
15°	489.7	511.9	534.5	558.5	585.7	610.7	634.6	654.3	672.6	696.9	722.4
17.5°	483.5	507.5	536.1	565.2	593.5	622.1	651.6	681.3	704.5	734.6	754.5
20°	477.9	505.6	534.9	569.6	597.9	633.5	662.9	691.6	723.4	753.4	777.2
22.5°	469.8	500.2	531.3	565.8	603.0	638.8	672.6	703.8	735.6	768.2	797.0
25°	459.7	487.2	524.1	563.2	600.3	639.0	678.0	717.0	751.3	785.7	812.6
27.5°	442.5	477.2	511.5	551.9	593.1	636.9	678.6	719.5	755.4	783.7	800.3
30°	433.6	463.8	501.1	541.7	586.3	633.4	676.7	716.9	750.3	772.9	779.6
32.5°	420.6	451.7	488.2	530.2	577.5	625.9	671.0	708.9	736.8	748.6	740.5
35°	401.2	429.4	466.2	509.2	558.4	609.8	654.5	686.5	700.8	689.6	661.7
37.5°	378.0	405.9	442.9	485.2	536.0	588.4	628.7	651.8	647.0	619.1	577.6
40°	361.7	387.8	423.0	468.6	518.1	570.8	606.2	618.6	605.6	565.7	521.4
42.5°	343.6	369.0	404.4	448.5	500.9	549.4	580.3	581.3	559.5	511.7	467.4
45°	316.1	340.3	373.7	419.6	468.0	513.7	534.1	524.1	483.7	437.7	393.0
47.5°	288.9	309.9	342.9	386.3	432.4	470.8	481.0	463.0	420.0	375.2	333.9
50°	269.0	290.2	321.2	362.7	407.2	440.3	445.2	421.4	379.2	334.2	301.8
52.5°	249.9	271.0	300.7	339.2	379.9	409.8	410.0	382.5	340.4	300.3	270.2
55°	221.9	240.8	267.8	302.2	338.5	361.9	356.2	327.7	291.2	256.3	230.1
57.5°	194.9	211.5	236.2	264.9	296.9	316.2	306.8	279.3	246.8	217.1	197.3
60°	177.5	193.2	214.4	241.5	268.4	283.4	274.5	249.6	219.6	195.8	178.5
62.5°	160.5	173.7	194.2	217.7	242.6	253.7	245.8	221.3	195.4	173.8	159.7
65°	136.6	147.3	163.6	183.8	201.9	211.5	204.8	181.9	162.2	146.7	135.5
67.5°	114.1	122.5	134.9	151.1	166.5	171.7	165.6	149.6	132.9	120.5	112.6
70°	98.6	106.6	116.9	129.4	142.8	148.4	142.2	129.6	116.0	104.5	96.8
72.5°	85.1	91.3	100.0	110.6	121.1	126.7	122.5	110.4	98.8	90.3	83.8
75°	64.8	70.1	76.2	83.8	91.9	95.6	91.9	83.5	75.6	69.3	64.6
77.5°	47.1	49.9	54.7	60.4	65.4	68.2	65.0	59.4	54.5	50.2	47.9
80°	35.9	37.9	41.2	45.6	49.1	51.7	49.7	45.0	41.2	38.3	37.3
82.5°	26.1	27.5	29.6	32.9	35.2	36.6	35.7	32.3	30.7	28.2	27.2
85°	12.8	13.7	15.1	16.1	18.2	18.3	18.5	17.1	15.7	15.1	14.3
87.5°	5.2	5.6	6.5	7.2	8.2	8.6	8.7	9.0	8.5	8.5	8.0
90°	3.7	5.3	7.0	8.6	10.0	11.2	12.4	13.6	14.8	15.7	16.6
92.5°	16.3	18.2	20.1	22.0	23.3	24.1	25.0	25.8	26.7	27.2	27.7
95°	41.8	43.0	44.4	45.8	47.0	48.0	49.1	50.1	51.1	51.6	52.1
97.5°	71.6	72.7	73.8	74.8	76.0	77.2	78.4	79.6	80.9	81.5	82.0
100°	94.8	95.4	96.0	96.6	97.6	98.9	100.3	101.6	103.0	103.3	103.6
102.5°	119.2	119.5	119.8	119.9	120.7	121.9	123.1	124.4	125.6	126.1	126.5
105°	157.0	157.1	157.3	157.5	157.8	158.4	159.0	159.6	160.2	160.7	161.1
107.5°	196.7	196.9	197.1	197.3	197.4	197.5	197.6	197.7	197.8	198.2	198.6
110°	223.8	224.0	224.4	224.6	224.7	224.6	224.5	224.3	224.1	223.9	223.5



TEST NUMBER: P332509-935

CATALOG NUMBER: S124DIP-S350D810U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	251.5	251.6	251.7	251.8	251.6	251.3	251.1	250.8	250.6	250.5	250.4
115°	293.5	293.5	293.5	293.5	293.3	293.0	292.7	292.4	292.1	292.0	291.8
117.5°	333.2	333.3	333.4	333.6	333.5	333.3	333.0	332.9	332.7	332.2	331.7
120°	360.1	360.7	361.3	361.9	361.9	361.4	361.0	360.6	360.2	359.4	358.6
122.5°	387.1	387.4	387.6	387.9	387.9	387.7	387.4	387.3	387.0	386.5	386.0
125°	427.4	427.4	427.4	427.4	427.3	427.2	427.1	426.9	426.8	426.5	426.2
127.5°	464.6	465.1	465.5	466.0	466.1	465.8	465.6	465.4	465.1	464.9	464.5
130°	490.5	490.9	491.4	491.8	492.1	492.1	492.1	492.1	492.1	491.7	491.5
132.5°	516.8	517.1	517.4	517.7	517.8	517.7	517.6	517.5	517.4	517.0	516.8
135°	552.2	553.1	554.0	554.9	555.3	555.3	555.3	555.3	555.3	555.0	554.7
137.5°	589.7	590.0	590.5	590.9	591.2	591.5	591.8	591.9	592.2	591.9	591.4
140°	614.8	615.2	615.4	615.8	615.9	615.9	615.9	615.9	615.9	615.8	615.6
142.5°	638.0	638.3	638.6	638.9	639.0	638.9	638.8	638.6	638.5	638.5	638.4
145°	670.4	671.0	671.6	672.2	672.5	672.7	672.8	673.0	673.1	673.0	672.8
147.5°	702.2	702.9	703.7	704.4	704.7	704.6	704.5	704.3	704.2	704.1	704.0
150°	721.5	722.1	722.7	723.3	723.6	723.6	723.6	723.6	723.6	723.6	723.6
152.5°	739.6	739.9	740.3	740.6	740.9	741.0	741.1	741.2	741.4	741.8	742.1
155°	767.3	767.3	767.3	767.3	767.2	767.2	767.0	766.8	766.7	767.2	767.8
157.5°	790.7	790.5	790.2	790.0	789.8	789.8	789.8	789.7	789.7	790.1	790.6
160°	804.9	804.8	804.6	804.4	804.3	804.2	804.0	803.8	803.7	804.2	804.6
162.5°	817.6	817.2	816.8	816.4	816.1	816.0	815.9	815.7	815.5	816.4	817.2
165°	834.9	834.5	834.0	833.5	833.2	832.8	832.6	832.2	832.0	832.8	833.8
167.5°	848.0	847.4	846.8	846.2	845.8	845.8	845.9	845.9	845.9	846.9	847.7
170°	855.5	854.7	853.9	853.3	852.9	853.1	853.3	853.3	853.5	854.4	855.3
172.5°	861.0	860.3	859.7	859.1	858.8	858.8	858.8	858.8	858.9	859.9	860.9
175°	868.2	867.5	866.8	866.0	865.6	865.4	865.2	865.1	865.0	866.0	867.0
177.5°	870.8	870.2	869.6	869.0	868.7	868.7	868.7	868.7	868.7	869.5	870.4
180°	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3	870.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	491.9	491.9	491.9	491.9	491.9	491.9	491.9
2.5°	518.5	518.8	520.3	521.4	521.8	523.4	523.5
5°	564.0	567.5	574.2	574.8	575.8	581.2	577.0
7.5°	617.4	626.2	632.1	637.3	639.1	641.4	641.0
10°	651.7	664.7	671.2	681.7	682.0	684.7	683.0
12.5°	686.0	701.2	713.1	715.1	723.8	725.1	727.4
15°	734.8	750.9	767.4	773.4	785.3	788.2	792.6
17.5°	780.6	797.0	808.7	823.9	828.9	835.4	831.0
20°	805.7	823.6	838.4	850.3	855.4	859.1	858.7
22.5°	820.9	839.0	850.8	860.0	864.7	866.3	866.2
25°	830.3	840.8	844.5	847.9	842.6	840.8	841.5
27.5°	803.9	801.2	791.7	779.1	766.1	755.8	750.1
30°	767.6	751.7	737.3	712.0	699.0	691.2	684.2
32.5°	716.1	690.9	663.1	639.9	625.1	613.6	611.9
35°	627.8	590.0	555.9	527.5	512.9	500.5	497.6
37.5°	533.7	494.4	463.7	438.8	423.0	414.2	406.0
40°	471.3	437.5	407.3	386.2	374.1	367.8	362.7
42.5°	423.3	392.4	362.3	346.2	335.4	331.5	328.5
45°	356.8	328.0	307.3	295.1	288.8	282.2	279.1
47.5°	303.6	280.3	266.6	256.1	249.3	245.5	243.6
50°	273.5	254.3	242.1	234.1	228.0	225.0	223.3
52.5°	246.8	231.0	220.8	214.4	210.3	208.0	207.3
55°	212.5	200.5	194.0	188.5	185.5	183.4	182.6
57.5°	184.8	175.5	170.2	165.7	164.5	162.8	162.2
60°	166.5	159.4	154.9	151.8	150.8	148.8	149.1
62.5°	150.3	144.5	140.7	139.0	137.6	135.9	136.5
65°	127.2	122.9	120.8	119.2	117.6	116.6	117.4
67.5°	106.7	103.8	101.0	100.0	99.3	99.1	98.2
70°	93.3	90.9	88.4	87.8	87.8	87.0	86.8
72.5°	80.4	78.7	77.1	76.5	75.9	76.3	75.4
75°	62.2	60.7	60.1	59.5	59.3	59.3	58.7
77.5°	45.9	44.9	43.9	43.9	43.1	42.9	42.8
80°	34.9	34.4	33.7	33.7	33.2	33.4	33.0
82.5°	26.2	25.7	25.5	25.1	24.5	24.6	24.2
85°	14.0	13.4	13.3	12.7	12.2	12.7	12.2
87.5°	8.4	8.4	8.4	8.1	8.0	8.1	7.7
90°	17.5	18.4	19.0	19.3	19.6	19.9	20.2
92.5°	28.2	28.8	29.2	29.4	29.5	29.7	29.9
95°	52.5	53.0	53.2	53.2	53.2	53.2	53.2
97.5°	82.5	83.1	83.3	83.3	83.3	83.3	83.3
100°	103.9	104.2	104.4	104.4	104.4	104.4	104.4
102.5°	126.8	127.3	127.5	127.7	127.8	127.9	128.0
105°	161.5	162.0	162.5	162.9	163.3	163.8	164.3
107.5°	199.0	199.4	199.7	199.6	199.6	199.6	199.5
110°	223.3	222.9	223.0	223.5	223.9	224.4	224.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	250.4	250.3	250.3	250.4	250.5	250.6	250.6
115°	291.7	291.5	291.4	291.3	291.1	290.9	290.8
117.5°	331.1	330.6	330.2	329.9	329.6	329.3	329.0
120°	357.8	357.1	356.9	357.2	357.5	357.8	358.1
122.5°	385.6	385.0	384.5	383.9	383.4	382.9	382.4
125°	425.9	425.6	425.2	425.0	424.6	424.4	424.0
127.5°	464.3	463.9	463.6	463.4	463.2	463.0	462.7
130°	491.1	490.9	490.4	489.8	489.2	488.6	488.0
132.5°	516.4	516.2	515.9	515.7	515.4	515.1	515.0
135°	554.4	554.1	553.7	553.3	552.8	552.4	552.0
137.5°	591.1	590.6	590.5	590.6	590.6	590.7	590.9
140°	615.4	615.3	615.2	615.0	614.8	614.7	614.6
142.5°	638.4	638.4	638.3	638.3	638.3	638.3	638.3
145°	672.7	672.5	672.2	671.8	671.3	670.9	670.5
147.5°	703.9	703.7	703.6	703.4	703.3	703.2	703.0
150°	723.6	723.6	723.5	723.4	723.2	723.1	722.9
152.5°	742.4	742.8	742.8	742.4	742.0	741.7	741.2
155°	768.4	769.0	769.0	768.4	767.8	767.2	766.7
157.5°	791.1	791.5	791.4	791.0	790.5	790.0	789.5
160°	805.0	805.5	805.4	804.6	803.8	803.1	802.4
162.5°	817.9	818.8	818.8	818.0	817.3	816.6	815.8
165°	834.7	835.6	835.7	835.1	834.5	833.9	833.4
167.5°	848.7	849.5	849.5	848.6	847.7	846.8	845.8
170°	856.2	857.1	857.0	856.0	855.0	853.9	852.8
172.5°	861.9	863.0	863.0	861.9	860.8	859.8	858.8
175°	868.1	869.2	869.2	868.1	867.0	866.0	865.0
177.5°	871.2	872.1	872.0	871.1	870.1	869.2	868.1
180°	870.3	870.3	870.3	870.3	870.3	870.3	870.3

(END OF REPORT)