

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: P332510-927

Luminaire Tested: **S124DIP-S350D810U927-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332510-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-18,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124DIP-S350D810U927-4F0-1E-UDD-A4
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 350 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 810 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3543.5 lumens
Efficiency: N/A
Efficacy: 113.6 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

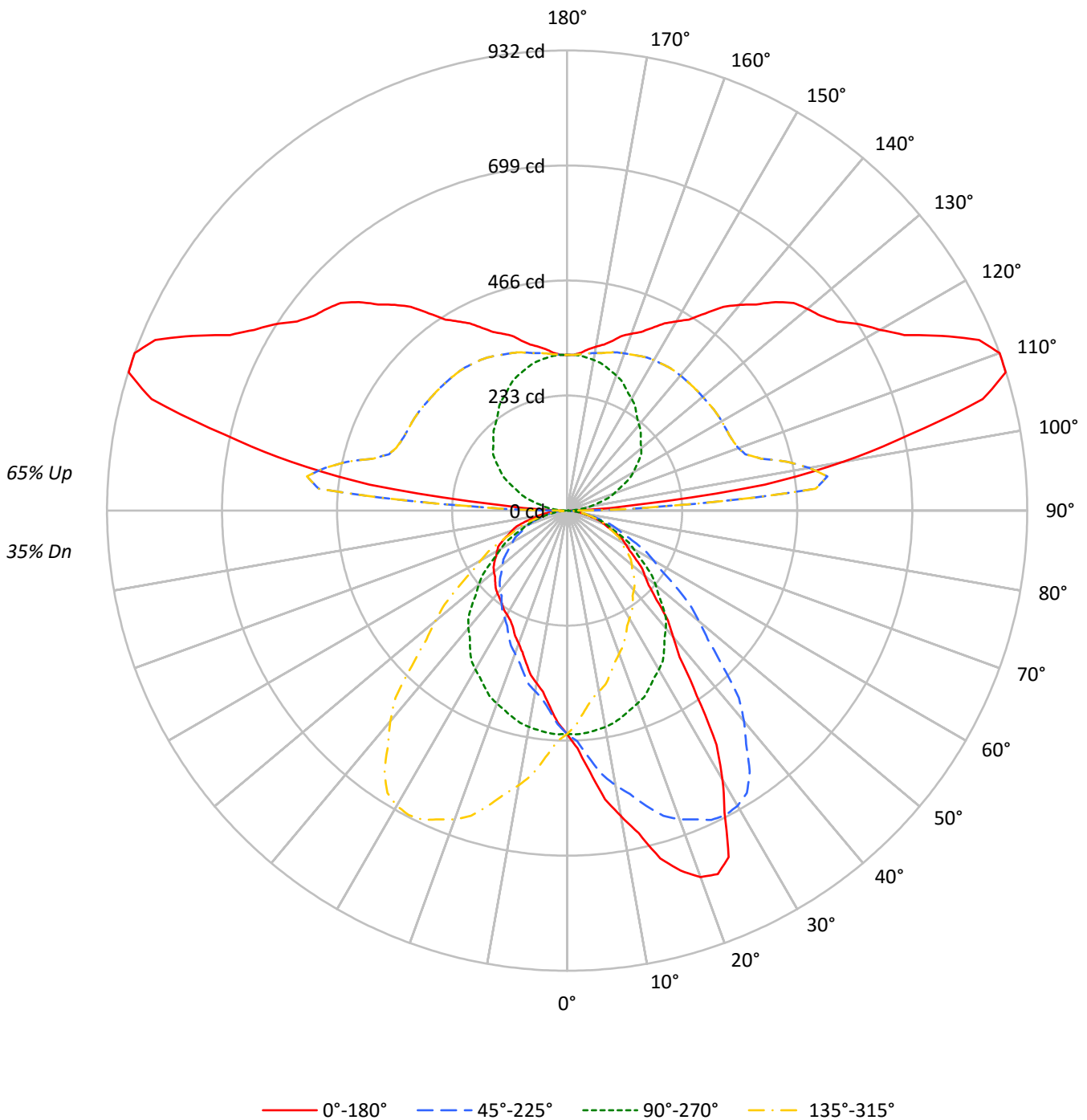
Input Watts (W): 31.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	75	75	75	58	58	58	43	43	43	35
1	95	90	87	83	85	82	79	76	66	64	62	51	50	49	38	37	36	30
2	86	79	73	68	78	72	67	63	58	54	51	45	43	41	33	32	31	25
3	79	70	63	57	71	63	57	52	51	47	43	40	37	35	30	28	26	22
4	72	62	54	48	65	56	50	44	46	41	37	36	32	30	27	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	32	29	26	24	22	20	16
6	61	49	41	36	55	45	38	33	37	32	28	29	25	23	22	19	18	14
7	56	44	37	31	51	41	34	29	33	28	24	26	23	20	20	18	16	13
8	52	40	33	28	47	37	30	26	30	25	22	24	20	18	18	16	14	12
9	48	37	29	24	44	34	27	23	28	23	19	22	19	16	17	14	13	10
10	45	34	27	22	41	31	25	20	25	21	17	20	17	14	16	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	3654	3654	3654	3654
5°	4302	3663	3233	3663
10°	5151	3647	2911	3647
15°	6095	3611	2674	3611
20°	6787	3572	2461	3572
25°	6897	3517	2314	3517
30°	5868	3464	2269	3464
35°	4512	3377	2269	3377
40°	3517	3276	2312	3276
45°	2932	3123	2351	3123
50°	2581	2936	2430	2936
55°	2365	2712	2528	2712
60°	2215	2512	2645	2512
65°	2063	2288	2743	2288
70°	1886	2065	2804	2065
75°	1684	1818	2773	1818
80°	1409	1492	2687	1492
85°	1037	1074	2566	1074



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.1	1.2
10°-20°	135.9	3.8
20°-30°	215.5	6.1
30°-40°	239.8	6.8
40°-50°	218.3	6.2
50°-60°	178.4	5.0
60°-70°	127.4	3.6
70°-80°	70.1	2.0
80°-90°	20.9	0.6
90°-100°	227.7	6.4
100°-110°	474.0	13.4
110°-120°	424.5	12.0
120°-130°	357.1	10.1
130°-140°	297.7	8.4
140°-150°	227.5	6.4
150°-160°	159.9	4.5
160°-170°	94.0	2.7
170°-180°	30.6	0.9
0°-30°	395.5	11.2
0°-40°	635.3	17.9
0°-60°	1032.1	29.1
0°-90°	1250.4	35.3
90°-120°	1126.2	31.8
90°-150°	2008.5	56.7
90°-180°	2293.0	64.7
0°-180°	3543.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	453	453	453	453	453	
5°	531	452	399	452	531	54
15°	729	432	320	432	729	206
25°	774	395	260	395	774	341
35°	458	343	230	343	458	291
45°	257	274	206	274	257	202
55°	168	193	180	193	168	152
65°	108	120	144	120	108	107
75°	54	58	89	58	54	57
85°	11	12	28	12	11	14
90°	13	1	13	1	13	11
95°	151	20	151	20	151	235
105°	872	72	872	72	872	862
115°	837	128	837	128	837	831
125°	668	178	668	178	668	607
135°	597	211	597	211	597	461
145°	488	243	488	243	488	309
155°	408	277	408	277	408	190
165°	356	302	356	302	356	102
175°	321	315	321	315	321	31
180°	315	315	315	315	315	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6
2.5°	481.6	481.6	480.1	479.7	478.7	477.4	477.1	474.6	469.8	467.5	467.0
5°	530.9	534.7	529.8	528.9	528.3	522.1	519.0	515.2	506.6	501.5	497.6
7.5°	589.8	590.2	588.0	586.4	581.5	576.2	568.1	559.4	549.1	538.5	530.4
10°	628.4	629.9	627.5	627.2	617.6	611.6	599.6	589.5	577.8	564.9	553.1
12.5°	669.2	667.2	665.9	657.9	656.1	645.2	631.2	620.8	602.9	588.0	572.3
15°	729.3	725.2	722.5	711.5	706.1	690.9	676.0	664.6	641.2	618.9	602.0
17.5°	764.5	768.7	762.6	758.0	744.0	733.3	718.2	694.2	675.9	648.2	626.9
20°	790.0	790.4	787.0	782.4	771.3	757.8	741.3	715.1	693.2	665.6	636.3
22.5°	796.9	797.0	795.6	791.2	782.8	771.9	755.3	733.3	706.8	676.8	647.5
25°	774.3	773.6	775.2	780.1	777.0	773.6	764.0	747.7	722.9	691.3	659.7
27.5°	690.1	695.4	704.9	716.8	728.4	737.2	739.7	736.3	721.0	695.0	661.9
30°	629.5	636.0	643.1	655.1	678.3	691.7	706.2	717.3	711.1	690.3	659.6
32.5°	563.0	564.6	575.1	588.7	610.1	635.6	658.9	681.4	688.8	677.9	652.2
35°	457.8	460.5	471.9	485.4	511.4	542.8	577.7	608.8	634.5	644.8	631.6
37.5°	373.6	381.1	389.2	403.7	426.7	454.9	491.1	531.4	569.7	595.3	599.7
40°	333.7	338.4	344.2	355.3	374.8	402.5	433.6	479.7	520.5	557.2	569.2
42.5°	302.2	305.0	308.6	318.5	333.4	361.0	389.4	430.0	470.8	514.8	534.9
45°	256.8	259.7	265.7	271.5	282.7	301.8	328.3	361.6	402.7	445.0	482.2
47.5°	224.1	225.9	229.4	235.7	245.3	257.9	279.3	307.2	345.2	386.4	426.0
50°	205.5	207.0	209.8	215.4	222.8	234.0	251.6	277.7	307.4	348.9	387.7
52.5°	190.8	191.4	193.5	197.3	203.1	212.5	227.0	248.6	276.3	313.2	351.9
55°	168.0	168.7	170.6	173.4	178.5	184.5	195.5	211.7	235.8	267.9	301.5
57.5°	149.2	149.8	151.3	152.4	156.6	161.4	170.0	181.5	199.8	227.0	257.0
60°	137.2	136.9	138.7	139.7	142.5	146.6	153.2	164.2	180.1	202.1	229.7
62.5°	125.6	125.0	126.6	127.9	129.4	132.9	138.3	146.9	159.9	179.7	203.6
65°	108.0	107.3	108.2	109.7	111.1	113.0	117.0	124.7	135.0	149.2	167.4
67.5°	90.4	91.2	91.3	92.1	92.9	95.5	98.2	103.6	110.9	122.3	137.7
70°	79.9	80.1	80.8	80.8	81.4	83.7	85.9	89.0	96.2	106.7	119.2
72.5°	69.4	70.2	69.9	70.4	70.9	72.4	74.0	77.1	83.1	90.9	101.6
75°	54.0	54.6	54.6	54.7	55.3	55.8	57.2	59.4	63.8	69.6	76.8
77.5°	39.4	39.5	39.7	40.4	40.4	41.3	42.2	44.0	46.2	50.1	54.7
80°	30.3	30.7	30.6	31.0	31.0	31.7	32.1	34.3	35.3	37.9	41.4
82.5°	22.3	22.7	22.6	23.1	23.4	23.6	24.1	25.0	26.0	28.3	29.7
85°	11.2	11.6	11.2	11.6	12.2	12.4	12.9	13.2	13.9	14.4	15.8
87.5°	5.9	6.3	6.5	6.5	6.7	6.8	6.9	6.6	7.1	7.4	7.7
90°	13.0	13.0	13.6	13.0	12.4	12.4	11.8	11.2	10.5	11.2	9.9
92.5°	47.7	47.7	49.8	53.2	60.4	72.9	91.6	121.7	163.7	196.5	172.0
95°	151.1	159.2	170.3	189.6	219.9	280.0	363.0	459.0	519.1	504.9	381.0
97.5°	404.0	416.8	435.5	472.8	517.2	581.9	642.5	678.1	652.1	531.7	356.6
100°	568.0	573.0	591.5	629.3	683.3	729.0	759.4	747.0	656.6	498.0	323.4
102.5°	710.7	714.7	734.3	761.7	794.7	813.8	805.0	743.5	619.4	455.9	301.0
105°	871.6	875.3	883.9	888.9	887.6	862.2	800.9	693.8	551.9	406.3	281.9
107.5°	931.2	929.6	923.4	909.3	878.7	823.5	737.1	623.1	497.4	378.6	278.4
110°	932.2	926.7	915.5	889.5	845.5	777.4	687.5	580.4	470.2	369.2	279.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	903.0	894.0	878.4	846.8	796.9	728.8	644.0	549.2	454.8	364.7	282.3
115°	836.9	831.9	812.1	774.9	726.0	666.5	594.1	517.8	440.4	362.3	288.0
117.5°	769.8	766.0	745.9	714.7	673.0	622.5	565.5	502.5	434.0	361.7	294.1
120°	732.1	725.3	709.2	682.0	646.7	602.7	553.2	495.5	430.5	361.7	298.6
122.5°	702.4	695.6	682.0	658.7	628.8	590.3	545.2	489.6	426.5	361.2	303.0
125°	667.7	664.0	652.3	634.3	609.5	575.4	532.7	479.4	419.9	360.5	309.7
127.5°	647.5	643.7	633.8	617.8	592.9	560.5	517.9	467.1	411.1	359.2	315.1
130°	635.6	631.8	621.9	606.4	581.0	548.2	506.0	457.2	405.8	358.6	319.0
132.5°	622.2	618.5	609.0	591.5	566.6	533.9	492.7	446.7	400.8	358.1	322.5
135°	597.1	593.4	583.5	566.2	541.4	510.4	472.6	432.4	393.3	357.4	327.6
137.5°	566.2	561.7	553.5	536.4	513.3	485.3	453.4	419.4	386.9	357.3	330.7
140°	543.8	538.9	530.2	516.6	495.0	468.9	441.0	411.9	383.4	356.8	333.3
142.5°	520.1	516.6	508.9	496.3	477.1	454.6	430.6	405.0	380.5	356.8	335.3
145°	487.5	484.4	478.2	467.7	452.2	434.8	416.3	395.2	375.3	355.5	336.4
147.5°	458.6	457.5	452.8	443.8	432.4	418.7	403.9	387.1	370.8	353.3	337.0
150°	442.3	441.6	437.9	429.9	419.9	408.8	396.4	382.1	367.3	351.8	337.0
152.5°	427.4	426.7	424.5	418.0	409.6	400.4	389.0	376.8	363.4	349.4	336.0
155°	408.2	408.2	406.3	401.4	395.2	387.8	378.5	368.5	357.4	345.6	334.5
157.5°	391.3	391.3	390.2	386.5	381.8	375.9	368.0	359.7	351.3	341.8	332.9
160°	381.0	381.0	380.3	376.6	372.9	368.0	361.2	354.3	346.9	338.8	331.4
162.5°	371.1	371.5	370.9	367.2	364.5	360.0	354.7	348.9	342.9	335.9	329.9
165°	356.2	356.8	357.4	354.9	352.4	349.4	345.0	341.3	336.4	331.4	327.1
167.5°	344.4	344.9	345.0	343.4	342.1	340.3	336.8	334.0	330.4	326.9	324.1
170°	337.0	337.0	337.5	337.0	335.7	333.9	331.4	329.5	326.5	323.9	322.1
172.5°	329.5	330.5	331.1	330.5	329.8	328.4	326.9	325.6	323.0	321.0	320.1
175°	320.8	322.1	323.4	322.1	322.1	322.1	320.8	320.3	319.0	317.7	317.7
177.5°	315.8	316.8	317.7	317.3	317.7	317.3	317.3	316.8	316.2	315.8	315.8
180°	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6
2.5°	467.1	465.0	463.5	462.3	459.1	457.1	455.6	453.5	451.1	448.5	445.4
5°	493.6	487.3	482.6	475.5	468.7	463.1	457.2	452.0	445.7	438.7	433.6
7.5°	521.5	512.0	499.9	489.3	477.4	467.1	458.0	448.5	438.7	429.1	420.4
10°	539.2	527.0	513.5	497.6	482.6	469.3	456.9	444.9	433.2	421.7	411.7
12.5°	558.3	543.0	523.1	504.5	487.7	469.8	455.0	440.2	426.2	414.0	402.4
15°	583.8	561.9	538.8	513.9	491.8	471.0	450.5	432.0	416.2	400.1	388.8
17.5°	599.5	572.4	546.1	520.0	493.2	466.9	444.9	423.5	403.8	387.8	373.6
20°	609.9	582.9	550.1	524.0	492.2	465.2	439.7	415.8	395.2	378.2	363.5
22.5°	618.9	587.7	554.8	520.5	488.9	460.2	432.3	408.4	387.3	369.3	355.3
25°	623.8	588.0	552.3	518.2	482.2	448.3	422.9	394.8	372.3	353.4	338.4
27.5°	624.3	586.0	545.7	507.8	470.6	439.0	407.1	381.9	358.6	338.6	324.2
30°	622.7	582.7	539.4	498.4	461.1	426.7	398.9	371.6	347.8	327.9	312.9
32.5°	617.3	575.8	531.3	487.8	449.2	415.6	387.0	360.9	337.7	318.1	302.4
35°	602.2	561.1	513.7	468.5	429.0	395.1	369.2	342.7	319.5	301.0	285.7
37.5°	578.5	541.4	493.1	446.4	407.5	373.4	347.8	323.9	302.9	284.1	268.5
40°	557.8	525.1	476.7	431.2	389.2	356.8	332.8	310.9	290.0	272.2	257.4
42.5°	533.9	505.5	460.9	412.6	372.1	339.5	316.2	296.4	276.9	260.4	245.6
45°	491.4	472.6	430.6	386.0	343.8	313.1	290.8	273.5	257.1	240.9	228.5
47.5°	442.5	433.2	397.8	355.5	315.4	285.1	265.8	249.9	235.4	221.7	210.8
50°	409.6	405.1	374.6	333.7	295.5	267.0	247.5	233.8	221.4	209.5	199.1
52.5°	377.2	377.1	349.5	312.1	276.7	249.3	229.9	217.1	206.4	196.7	187.4
55°	327.7	333.0	311.4	278.1	246.4	221.6	204.1	192.7	185.2	177.2	170.2
57.5°	282.3	291.0	273.1	243.8	217.3	194.6	179.4	170.8	162.8	157.9	152.8
60°	252.5	260.8	246.9	222.2	197.3	177.8	163.3	155.6	148.7	145.3	141.7
62.5°	226.2	233.5	223.2	200.3	178.6	159.9	147.7	140.3	135.6	132.0	129.6
65°	188.5	194.6	185.8	169.1	150.5	135.5	125.6	119.8	115.3	113.8	111.1
67.5°	152.3	158.0	153.2	139.0	124.1	112.7	105.0	99.4	96.7	95.5	93.6
70°	130.9	136.5	131.4	119.1	107.6	98.1	90.7	87.5	84.8	84.2	81.6
72.5°	112.7	116.5	111.5	101.8	92.1	84.0	78.3	74.9	73.5	72.5	71.1
75°	84.5	87.9	84.5	77.1	70.1	64.5	59.7	58.3	56.6	56.1	55.1
77.5°	59.8	62.7	60.2	55.5	50.3	45.9	43.3	41.7	41.3	40.3	40.8
80°	45.7	47.6	45.2	42.0	37.9	34.9	33.0	32.1	31.0	30.6	31.3
82.5°	32.9	33.7	32.4	30.3	27.3	25.3	24.0	22.9	22.7	22.7	22.7
85°	17.0	16.9	16.7	14.8	13.9	12.6	11.8	11.6	11.4	11.8	12.2
87.5°	7.4	7.6	6.7	6.1	5.5	4.9	4.4	4.0	4.4	4.9	5.2
90°	8.6	8.6	5.0	5.0	4.4	3.7	1.8	0.6	1.8	3.7	4.4
92.5°	125.1	77.1	45.6	32.7	23.7	16.1	10.3	7.1	10.3	16.1	23.7
95°	232.9	131.3	77.4	51.4	36.5	28.5	22.3	20.4	22.3	28.5	36.5
97.5°	209.4	125.5	84.0	62.2	49.4	42.0	36.7	36.7	36.7	42.0	49.4
100°	197.0	127.0	90.5	70.6	58.9	51.4	47.1	47.1	47.1	51.4	58.9
102.5°	193.5	131.9	98.9	80.0	68.8	61.8	58.0	57.0	58.0	61.8	68.8
105°	195.1	143.7	114.0	96.0	84.8	77.4	74.3	72.5	74.3	77.4	84.8
107.5°	204.3	157.5	130.2	112.5	101.8	93.9	90.8	89.6	90.8	93.9	101.8
110°	211.2	167.9	140.6	123.9	112.7	105.3	102.2	101.0	102.2	105.3	112.7



TEST NUMBER: P332510-927

CATALOG NUMBER: S124DIP-S350D810U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	218.6	177.8	151.5	134.8	123.7	116.7	113.1	111.9	113.1	116.7	123.7
115°	230.4	193.3	168.5	151.8	140.0	133.8	129.4	127.6	129.4	133.8	140.0
117.5°	242.4	208.3	184.7	167.4	156.4	149.6	145.7	143.9	145.7	149.6	156.4
120°	250.9	218.6	195.1	177.8	167.2	160.4	156.1	154.9	156.1	160.4	167.2
122.5°	258.8	228.5	205.0	188.1	176.7	170.3	166.0	164.8	166.0	170.3	176.7
125°	270.7	242.2	219.9	202.6	190.8	183.9	180.2	177.8	180.2	183.9	190.8
127.5°	281.0	254.8	233.3	215.8	203.5	195.7	191.3	189.3	191.3	195.7	203.5
130°	287.4	263.2	242.2	224.3	212.5	203.2	198.2	195.7	198.2	203.2	212.5
132.5°	293.8	270.2	249.1	232.2	219.4	210.6	204.1	202.2	204.1	210.6	219.4
135°	302.3	280.0	259.5	243.4	230.4	219.9	213.7	211.2	213.7	219.9	230.4
137.5°	308.2	287.4	268.3	252.9	239.5	229.4	222.6	220.3	222.6	229.4	239.5
140°	312.2	292.4	273.8	258.9	245.9	235.4	228.5	226.7	228.5	235.4	245.9
142.5°	315.1	296.8	278.8	264.4	251.8	241.9	235.5	233.6	235.5	241.9	251.8
145°	318.4	301.7	285.6	272.0	260.2	251.5	245.3	243.4	245.3	251.5	260.2
147.5°	321.2	306.7	291.5	279.2	269.4	260.5	255.1	254.4	255.1	260.5	269.4
150°	322.7	309.1	295.5	283.7	274.4	267.0	262.1	261.4	262.1	267.0	274.4
152.5°	323.7	311.1	299.0	288.2	279.9	272.9	268.0	267.8	268.0	272.9	279.9
155°	324.6	314.0	303.5	294.2	287.4	281.2	277.5	276.9	277.5	281.2	287.4
157.5°	324.6	316.2	307.2	299.9	294.0	289.1	285.7	285.7	285.7	289.1	294.0
160°	324.6	317.1	309.7	302.9	297.9	293.6	291.1	291.1	291.1	293.6	297.9
162.5°	324.6	318.1	311.2	305.9	301.4	297.5	295.6	296.1	295.6	297.5	301.4
165°	323.4	318.4	312.8	309.1	306.0	302.9	301.7	301.7	301.7	302.9	306.0
167.5°	321.9	318.3	314.2	311.3	309.6	307.2	306.7	307.2	306.7	307.2	309.6
170°	320.8	317.7	314.7	312.8	311.6	309.7	309.1	309.7	309.1	309.7	311.6
172.5°	319.9	317.3	315.1	313.8	313.1	311.7	311.6	312.2	311.6	311.7	313.1
175°	318.4	316.6	315.3	315.3	314.7	314.0	314.0	314.7	314.0	314.0	314.7
177.5°	316.8	315.8	315.3	315.3	315.3	314.8	315.3	315.8	315.3	314.8	315.3
180°	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3



TEST NUMBER: P332510-927

CATALOG NUMBER: S124DIP-S350D810U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6
2.5°	443.9	442.5	440.6	437.9	435.6	433.2	432.6	431.7	433.6	432.1	431.6
5°	429.4	425.4	420.3	414.5	411.1	406.3	405.4	403.5	401.6	401.4	399.5
7.5°	413.9	408.1	401.5	395.6	390.1	384.8	381.3	380.6	377.8	376.1	374.3
10°	404.0	396.9	389.2	383.6	377.2	371.6	367.7	365.4	363.5	361.5	359.6
12.5°	392.4	384.8	378.4	372.3	364.8	360.5	354.0	350.1	349.7	349.7	344.9
15°	378.7	371.2	361.5	352.8	348.7	340.5	336.9	332.4	329.6	326.8	324.6
17.5°	363.1	353.8	346.2	336.3	328.4	321.9	317.2	314.5	310.2	306.3	303.4
20°	353.4	343.5	335.4	324.9	316.3	308.2	304.3	300.6	297.4	294.0	290.8
22.5°	343.5	333.1	323.3	313.1	305.1	296.5	292.7	287.6	284.6	282.7	279.6
25°	327.9	316.6	305.4	295.6	287.4	279.9	274.9	270.9	267.5	266.0	264.0
27.5°	310.9	299.8	288.9	277.8	268.5	263.0	259.0	256.0	254.1	252.1	251.1
30°	300.2	288.5	276.9	266.6	258.0	252.5	248.8	246.8	245.3	244.3	243.4
32.5°	289.2	277.7	265.5	256.1	248.3	243.5	240.7	238.6	237.9	237.6	237.2
35°	271.6	260.1	248.8	240.3	233.1	231.2	228.7	227.6	227.2	228.5	229.1
37.5°	254.7	243.9	233.5	225.4	220.5	217.9	217.0	217.1	218.4	219.5	220.9
40°	243.8	233.2	223.5	216.3	211.8	210.2	209.8	210.7	212.2	213.6	215.1
42.5°	233.1	222.8	213.9	207.2	204.1	202.5	202.7	203.7	205.8	207.4	209.6
45°	216.6	207.9	199.3	193.8	191.2	191.6	191.6	193.3	195.4	197.8	200.3
47.5°	201.0	192.3	185.2	180.6	179.3	179.0	180.0	182.2	185.1	188.1	191.5
50°	190.5	182.2	176.0	171.9	170.4	171.0	172.5	174.5	178.1	181.9	185.4
52.5°	179.8	172.3	166.6	162.8	161.7	162.7	164.2	167.5	170.6	174.7	179.0
55°	163.3	156.9	152.4	149.6	149.2	149.8	151.5	155.0	159.5	164.6	168.7
57.5°	146.9	141.5	137.4	135.5	135.6	136.2	138.9	143.1	148.0	153.4	158.7
60°	135.7	130.9	127.5	126.0	126.2	127.3	130.7	134.6	140.6	145.8	151.5
62.5°	125.2	121.0	117.7	116.4	116.1	118.6	121.8	125.9	131.9	137.8	143.9
65°	108.4	105.0	102.3	101.6	102.2	104.1	108.2	113.6	118.7	124.8	131.3
67.5°	91.9	89.1	87.3	87.6	88.3	91.1	94.5	99.2	105.0	111.4	117.6
70°	81.4	78.7	77.2	77.4	78.6	81.9	84.9	89.6	95.8	102.3	107.6
72.5°	70.6	68.8	67.5	68.3	69.4	71.7	75.5	80.2	85.6	91.7	97.3
75°	54.2	54.2	53.5	54.0	55.7	57.9	60.8	65.6	71.1	76.0	80.4
77.5°	40.2	39.8	40.2	41.0	41.9	44.6	47.8	51.3	55.4	60.3	64.0
80°	30.7	31.0	31.8	33.0	33.4	35.4	38.8	42.0	45.2	49.3	52.8
82.5°	23.1	23.3	23.8	25.2	25.6	27.8	29.9	33.1	36.0	38.8	41.7
85°	12.6	12.6	13.5	14.1	15.0	16.5	17.8	19.7	22.3	24.2	27.0
87.5°	5.8	5.8	7.1	7.4	8.2	9.1	9.3	11.1	11.8	12.7	14.0
90°	5.0	5.0	8.6	8.6	9.9	11.2	10.5	11.2	11.8	12.4	12.4
92.5°	32.7	45.6	77.1	125.1	172.0	196.5	163.7	121.7	91.6	72.9	60.4
95°	51.4	77.4	131.3	232.9	381.0	504.9	519.1	459.0	363.0	280.0	219.9
97.5°	62.2	84.0	125.5	209.4	356.6	531.7	652.1	678.1	642.5	581.9	517.2
100°	70.6	90.5	127.0	197.0	323.4	498.0	656.6	747.0	759.4	729.0	683.3
102.5°	80.0	98.9	131.9	193.5	301.0	455.9	619.4	743.5	805.0	813.8	794.7
105°	96.0	114.0	143.7	195.1	281.9	406.3	551.9	693.8	800.9	862.2	887.6
107.5°	112.5	130.2	157.5	204.3	278.4	378.6	497.4	623.1	737.1	823.5	878.7
110°	123.9	140.6	167.9	211.2	279.3	369.2	470.2	580.4	687.5	777.4	845.5



TEST NUMBER: P332510-927

CATALOG NUMBER: S124DIP-S350D810U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	134.8	151.5	177.8	218.6	282.3	364.7	454.8	549.2	644.0	728.8	796.9
115°	151.8	168.5	193.3	230.4	288.0	362.3	440.4	517.8	594.1	666.5	726.0
117.5°	167.4	184.7	208.3	242.4	294.1	361.7	434.0	502.5	565.5	622.5	673.0
120°	177.8	195.1	218.6	250.9	298.6	361.7	430.5	495.5	553.2	602.7	646.7
122.5°	188.1	205.0	228.5	258.8	303.0	361.2	426.5	489.6	545.2	590.3	628.8
125°	202.6	219.9	242.2	270.7	309.7	360.5	419.9	479.4	532.7	575.4	609.5
127.5°	215.8	233.3	254.8	281.0	315.1	359.2	411.1	467.1	517.9	560.5	592.9
130°	224.3	242.2	263.2	287.4	319.0	358.6	405.8	457.2	506.0	548.2	581.0
132.5°	232.2	249.1	270.2	293.8	322.5	358.1	400.8	446.7	492.7	533.9	566.6
135°	243.4	259.5	280.0	302.3	327.6	357.4	393.3	432.4	472.6	510.4	541.4
137.5°	252.9	268.3	287.4	308.2	330.7	357.3	386.9	419.4	453.4	485.3	513.3
140°	258.9	273.8	292.4	312.2	333.3	356.8	383.4	411.9	441.0	468.9	495.0
142.5°	264.4	278.8	296.8	315.1	335.3	356.8	380.5	405.0	430.6	454.6	477.1
145°	272.0	285.6	301.7	318.4	336.4	355.5	375.3	395.2	416.3	434.8	452.2
147.5°	279.2	291.5	306.7	321.2	337.0	353.3	370.8	387.1	403.9	418.7	432.4
150°	283.7	295.5	309.1	322.7	337.0	351.8	367.3	382.1	396.4	408.8	419.9
152.5°	288.2	299.0	311.1	323.7	336.0	349.4	363.4	376.8	389.0	400.4	409.6
155°	294.2	303.5	314.0	324.6	334.5	345.6	357.4	368.5	378.5	387.8	395.2
157.5°	299.9	307.2	316.2	324.6	332.9	341.8	351.3	359.7	368.0	375.9	381.8
160°	302.9	309.7	317.1	324.6	331.4	338.8	346.9	354.3	361.2	368.0	372.9
162.5°	305.9	311.2	318.1	324.6	329.9	335.9	342.9	348.9	354.7	360.0	364.5
165°	309.1	312.8	318.4	323.4	327.1	331.4	336.4	341.3	345.0	349.4	352.4
167.5°	311.3	314.2	318.3	321.9	324.1	326.9	330.4	334.0	336.8	340.3	342.1
170°	312.8	314.7	317.7	320.8	322.1	323.9	326.5	329.5	331.4	333.9	335.7
172.5°	313.8	315.1	317.3	319.9	320.1	321.0	323.0	325.6	326.9	328.4	329.8
175°	315.3	315.3	316.6	318.4	317.7	317.7	319.0	320.3	320.8	322.1	322.1
177.5°	315.3	315.3	315.8	316.8	315.8	315.8	316.2	316.8	317.3	317.3	317.7
180°	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3



TEST NUMBER: P332510-927

CATALOG NUMBER: S124DIP-S350D810U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6
2.5°	431.3	431.0	429.9	429.8	429.9	431.0	431.3	431.6	432.1	433.6	431.7
5°	398.4	397.4	396.9	398.9	396.9	397.4	398.4	399.5	401.4	401.6	403.5
7.5°	373.6	372.9	371.2	370.7	371.2	372.9	373.6	374.3	376.1	377.8	380.6
10°	357.7	357.0	355.5	355.1	355.5	357.0	357.7	359.6	361.5	363.5	365.4
12.5°	342.4	341.0	340.6	341.0	340.6	341.0	342.4	344.9	349.7	349.7	350.1
15°	322.1	321.3	319.2	319.9	319.2	321.3	322.1	324.6	326.8	329.6	332.4
17.5°	302.1	301.2	298.7	300.9	298.7	301.2	302.1	303.4	306.3	310.2	314.5
20°	289.5	288.0	286.7	286.5	286.7	288.0	289.5	290.8	294.0	297.4	300.6
22.5°	277.5	276.2	276.0	274.8	276.0	276.2	277.5	279.6	282.7	284.6	287.6
25°	262.4	261.2	260.8	259.8	260.8	261.2	262.4	264.0	266.0	267.5	270.9
27.5°	251.0	250.3	249.6	249.9	249.6	250.3	251.0	251.1	252.1	254.1	256.0
30°	243.9	243.8	243.4	243.4	243.4	243.8	243.9	243.4	244.3	245.3	246.8
32.5°	238.1	238.1	238.3	238.3	238.3	238.1	238.1	237.2	237.6	237.9	238.6
35°	229.9	230.4	230.8	230.2	230.8	230.4	229.9	229.1	228.5	227.2	227.6
37.5°	222.4	223.0	223.6	224.2	223.6	223.0	222.4	220.9	219.5	218.4	217.1
40°	216.7	218.0	218.4	219.4	218.4	218.0	216.7	215.1	213.6	212.2	210.7
42.5°	211.4	212.8	213.7	214.0	213.7	212.8	211.4	209.6	207.4	205.8	203.7
45°	203.0	204.5	205.9	205.9	205.9	204.5	203.0	200.3	197.8	195.4	193.3
47.5°	194.5	196.6	198.0	198.3	198.0	196.6	194.5	191.5	188.1	185.1	182.2
50°	188.6	191.2	192.6	193.5	192.6	191.2	188.6	185.4	181.9	178.1	174.5
52.5°	182.9	185.5	187.3	187.7	187.3	185.5	182.9	179.0	174.7	170.6	167.5
55°	173.0	176.8	178.9	179.6	178.9	176.8	173.0	168.7	164.6	159.5	155.0
57.5°	163.7	167.2	169.6	170.2	169.6	167.2	163.7	158.7	153.4	148.0	143.1
60°	156.5	160.3	163.3	163.8	163.3	160.3	156.5	151.5	145.8	140.6	134.6
62.5°	149.2	153.1	155.8	157.2	155.8	153.1	149.2	143.9	137.8	131.9	125.9
65°	136.5	140.5	143.1	143.6	143.1	140.5	136.5	131.3	124.8	118.7	113.6
67.5°	122.6	126.6	128.3	129.4	128.3	126.6	122.6	117.6	111.4	105.0	99.2
70°	112.9	116.1	118.0	118.8	118.0	116.1	112.9	107.6	102.3	95.8	89.6
72.5°	101.8	105.1	107.3	107.5	107.3	105.1	101.8	97.3	91.7	85.6	80.2
75°	84.8	87.8	88.9	88.9	88.9	87.8	84.8	80.4	76.0	71.1	65.6
77.5°	67.1	68.6	70.0	70.3	70.0	68.6	67.1	64.0	60.3	55.4	51.3
80°	55.7	56.6	57.8	57.8	57.8	56.6	55.7	52.8	49.3	45.2	42.0
82.5°	44.0	44.8	45.9	45.7	45.9	44.8	44.0	41.7	38.8	36.0	33.1
85°	26.6	28.3	28.1	27.7	28.1	28.3	26.6	27.0	24.2	22.3	19.7
87.5°	14.6	14.9	15.2	15.5	15.2	14.9	14.6	14.0	12.7	11.8	11.1
90°	13.0	13.6	13.0	13.0	13.0	13.6	13.0	12.4	12.4	11.8	11.2
92.5°	53.2	49.8	47.7	47.7	47.7	49.8	53.2	60.4	72.9	91.6	121.7
95°	189.6	170.3	159.2	151.1	159.2	170.3	189.6	219.9	280.0	363.0	459.0
97.5°	472.8	435.5	416.8	404.0	416.8	435.5	472.8	517.2	581.9	642.5	678.1
100°	629.3	591.5	573.0	568.0	573.0	591.5	629.3	683.3	729.0	759.4	747.0
102.5°	761.7	734.3	714.7	710.7	714.7	734.3	761.7	794.7	813.8	805.0	743.5
105°	888.9	883.9	875.3	871.6	875.3	883.9	888.9	887.6	862.2	800.9	693.8
107.5°	909.3	923.4	929.6	931.2	929.6	923.4	909.3	878.7	823.5	737.1	623.1
110°	889.5	915.5	926.7	932.2	926.7	915.5	889.5	845.5	777.4	687.5	580.4



TEST NUMBER: P332510-927

CATALOG NUMBER: S124DIP-S350D810U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	846.8	878.4	894.0	903.0	894.0	878.4	846.8	796.9	728.8	644.0	549.2
115°	774.9	812.1	831.9	836.9	831.9	812.1	774.9	726.0	666.5	594.1	517.8
117.5°	714.7	745.9	766.0	769.8	766.0	745.9	714.7	673.0	622.5	565.5	502.5
120°	682.0	709.2	725.3	732.1	725.3	709.2	682.0	646.7	602.7	553.2	495.5
122.5°	658.7	682.0	695.6	702.4	695.6	682.0	658.7	628.8	590.3	545.2	489.6
125°	634.3	652.3	664.0	667.7	664.0	652.3	634.3	609.5	575.4	532.7	479.4
127.5°	617.8	633.8	643.7	647.5	643.7	633.8	617.8	592.9	560.5	517.9	467.1
130°	606.4	621.9	631.8	635.6	631.8	621.9	606.4	581.0	548.2	506.0	457.2
132.5°	591.5	609.0	618.5	622.2	618.5	609.0	591.5	566.6	533.9	492.7	446.7
135°	566.2	583.5	593.4	597.1	593.4	583.5	566.2	541.4	510.4	472.6	432.4
137.5°	536.4	553.5	561.7	566.2	561.7	553.5	536.4	513.3	485.3	453.4	419.4
140°	516.6	530.2	538.9	543.8	538.9	530.2	516.6	495.0	468.9	441.0	411.9
142.5°	496.3	508.9	516.6	520.1	516.6	508.9	496.3	477.1	454.6	430.6	405.0
145°	467.7	478.2	484.4	487.5	484.4	478.2	467.7	452.2	434.8	416.3	395.2
147.5°	443.8	452.8	457.5	458.6	457.5	452.8	443.8	432.4	418.7	403.9	387.1
150°	429.9	437.9	441.6	442.3	441.6	437.9	429.9	419.9	408.8	396.4	382.1
152.5°	418.0	424.5	426.7	427.4	426.7	424.5	418.0	409.6	400.4	389.0	376.8
155°	401.4	406.3	408.2	408.2	408.2	406.3	401.4	395.2	387.8	378.5	368.5
157.5°	386.5	390.2	391.3	391.3	391.3	390.2	386.5	381.8	375.9	368.0	359.7
160°	376.6	380.3	381.0	381.0	381.0	380.3	376.6	372.9	368.0	361.2	354.3
162.5°	367.2	370.9	371.5	371.1	371.5	370.9	367.2	364.5	360.0	354.7	348.9
165°	354.9	357.4	356.8	356.2	356.8	357.4	354.9	352.4	349.4	345.0	341.3
167.5°	343.4	345.0	344.9	344.4	344.9	345.0	343.4	342.1	340.3	336.8	334.0
170°	337.0	337.5	337.0	337.0	337.0	337.5	337.0	335.7	333.9	331.4	329.5
172.5°	330.5	331.1	330.5	329.5	330.5	331.1	330.5	329.8	328.4	326.9	325.6
175°	322.1	323.4	322.1	320.8	322.1	323.4	322.1	322.1	322.1	320.8	320.3
177.5°	317.3	317.7	316.8	315.8	316.8	317.7	317.3	317.7	317.3	317.3	316.8
180°	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3



TEST NUMBER: P332510-927

CATALOG NUMBER: S124DIP-S350D810U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6
2.5°	432.6	433.2	435.6	437.9	440.6	442.5	443.9	445.4	448.5	451.1	453.5
5°	405.4	406.3	411.1	414.5	420.3	425.4	429.4	433.6	438.7	445.7	452.0
7.5°	381.3	384.8	390.1	395.6	401.5	408.1	413.9	420.4	429.1	438.7	448.5
10°	367.7	371.6	377.2	383.6	389.2	396.9	404.0	411.7	421.7	433.2	444.9
12.5°	354.0	360.5	364.8	372.3	378.4	384.8	392.4	402.4	414.0	426.2	440.2
15°	336.9	340.5	348.7	352.8	361.5	371.2	378.7	388.8	400.1	416.2	432.0
17.5°	317.2	321.9	328.4	336.3	346.2	353.8	363.1	373.6	387.8	403.8	423.5
20°	304.3	308.2	316.3	324.9	335.4	343.5	353.4	363.5	378.2	395.2	415.8
22.5°	292.7	296.5	305.1	313.1	323.3	333.1	343.5	355.3	369.3	387.3	408.4
25°	274.9	279.9	287.4	295.6	305.4	316.6	327.9	338.4	353.4	372.3	394.8
27.5°	259.0	263.0	268.5	277.8	288.9	299.8	310.9	324.2	338.6	358.6	381.9
30°	248.8	252.5	258.0	266.6	276.9	288.5	300.2	312.9	327.9	347.8	371.6
32.5°	240.7	243.5	248.3	256.1	265.5	277.7	289.2	302.4	318.1	337.7	360.9
35°	228.7	231.2	233.1	240.3	248.8	260.1	271.6	285.7	301.0	319.5	342.7
37.5°	217.0	217.9	220.5	225.4	233.5	243.9	254.7	268.5	284.1	302.9	323.9
40°	209.8	210.2	211.8	216.3	223.5	233.2	243.8	257.4	272.2	290.0	310.9
42.5°	202.7	202.5	204.1	207.2	213.9	222.8	233.1	245.6	260.4	276.9	296.4
45°	191.6	191.6	191.2	193.8	199.3	207.9	216.6	228.5	240.9	257.1	273.5
47.5°	180.0	179.0	179.3	180.6	185.2	192.3	201.0	210.8	221.7	235.4	249.9
50°	172.5	171.0	170.4	171.9	176.0	182.2	190.5	199.1	209.5	221.4	233.8
52.5°	164.2	162.7	161.7	162.8	166.6	172.3	179.8	187.4	196.7	206.4	217.1
55°	151.5	149.8	149.2	149.6	152.4	156.9	163.3	170.2	177.2	185.2	192.7
57.5°	138.9	136.2	135.6	135.5	137.4	141.5	146.9	152.8	157.9	162.8	170.8
60°	130.7	127.3	126.2	126.0	127.5	130.9	135.7	141.7	145.3	148.7	155.6
62.5°	121.8	118.6	116.1	116.4	117.7	121.0	125.2	129.6	132.0	135.6	140.3
65°	108.2	104.1	102.2	101.6	102.3	105.0	108.4	111.1	113.8	115.3	119.8
67.5°	94.5	91.1	88.3	87.6	87.3	89.1	91.9	93.6	95.5	96.7	99.4
70°	84.9	81.9	78.6	77.4	77.2	78.7	81.4	81.6	84.2	84.8	87.5
72.5°	75.5	71.7	69.4	68.3	67.5	68.8	70.6	71.1	72.5	73.5	74.9
75°	60.8	57.9	55.7	54.0	53.5	54.2	54.2	55.1	56.1	56.6	58.3
77.5°	47.8	44.6	41.9	41.0	40.2	39.8	40.2	40.8	40.3	41.3	41.7
80°	38.8	35.4	33.4	33.0	31.8	31.0	30.7	31.3	30.6	31.0	32.1
82.5°	29.9	27.8	25.6	25.2	23.8	23.3	23.1	22.7	22.7	22.7	22.9
85°	17.8	16.5	15.0	14.1	13.5	12.6	12.6	12.2	11.8	11.4	11.6
87.5°	9.3	9.1	8.2	7.4	7.1	5.8	5.8	5.2	4.9	4.4	4.0
90°	10.5	11.2	9.9	8.6	8.6	5.0	5.0	4.4	3.7	1.8	0.6
92.5°	163.7	196.5	172.0	125.1	77.1	45.6	32.7	23.7	16.1	10.3	7.1
95°	519.1	504.9	381.0	232.9	131.3	77.4	51.4	36.5	28.5	22.3	20.4
97.5°	652.1	531.7	356.6	209.4	125.5	84.0	62.2	49.4	42.0	36.7	36.7
100°	656.6	498.0	323.4	197.0	127.0	90.5	70.6	58.9	51.4	47.1	47.1
102.5°	619.4	455.9	301.0	193.5	131.9	98.9	80.0	68.8	61.8	58.0	57.0
105°	551.9	406.3	281.9	195.1	143.7	114.0	96.0	84.8	77.4	74.3	72.5
107.5°	497.4	378.6	278.4	204.3	157.5	130.2	112.5	101.8	93.9	90.8	89.6
110°	470.2	369.2	279.3	211.2	167.9	140.6	123.9	112.7	105.3	102.2	101.0



TEST NUMBER: P332510-927

CATALOG NUMBER: S124DIP-S350D810U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	454.8	364.7	282.3	218.6	177.8	151.5	134.8	123.7	116.7	113.1	111.9
115°	440.4	362.3	288.0	230.4	193.3	168.5	151.8	140.0	133.8	129.4	127.6
117.5°	434.0	361.7	294.1	242.4	208.3	184.7	167.4	156.4	149.6	145.7	143.9
120°	430.5	361.7	298.6	250.9	218.6	195.1	177.8	167.2	160.4	156.1	154.9
122.5°	426.5	361.2	303.0	258.8	228.5	205.0	188.1	176.7	170.3	166.0	164.8
125°	419.9	360.5	309.7	270.7	242.2	219.9	202.6	190.8	183.9	180.2	177.8
127.5°	411.1	359.2	315.1	281.0	254.8	233.3	215.8	203.5	195.7	191.3	189.3
130°	405.8	358.6	319.0	287.4	263.2	242.2	224.3	212.5	203.2	198.2	195.7
132.5°	400.8	358.1	322.5	293.8	270.2	249.1	232.2	219.4	210.6	204.1	202.2
135°	393.3	357.4	327.6	302.3	280.0	259.5	243.4	230.4	219.9	213.7	211.2
137.5°	386.9	357.3	330.7	308.2	287.4	268.3	252.9	239.5	229.4	222.6	220.3
140°	383.4	356.8	333.3	312.2	292.4	273.8	258.9	245.9	235.4	228.5	226.7
142.5°	380.5	356.8	335.3	315.1	296.8	278.8	264.4	251.8	241.9	235.5	233.6
145°	375.3	355.5	336.4	318.4	301.7	285.6	272.0	260.2	251.5	245.3	243.4
147.5°	370.8	353.3	337.0	321.2	306.7	291.5	279.2	269.4	260.5	255.1	254.4
150°	367.3	351.8	337.0	322.7	309.1	295.5	283.7	274.4	267.0	262.1	261.4
152.5°	363.4	349.4	336.0	323.7	311.1	299.0	288.2	279.9	272.9	268.0	267.8
155°	357.4	345.6	334.5	324.6	314.0	303.5	294.2	287.4	281.2	277.5	276.9
157.5°	351.3	341.8	332.9	324.6	316.2	307.2	299.9	294.0	289.1	285.7	285.7
160°	346.9	338.8	331.4	324.6	317.1	309.7	302.9	297.9	293.6	291.1	291.1
162.5°	342.9	335.9	329.9	324.6	318.1	311.2	305.9	301.4	297.5	295.6	296.1
165°	336.4	331.4	327.1	323.4	318.4	312.8	309.1	306.0	302.9	301.7	301.7
167.5°	330.4	326.9	324.1	321.9	318.3	314.2	311.3	309.6	307.2	306.7	307.2
170°	326.5	323.9	322.1	320.8	317.7	314.7	312.8	311.6	309.7	309.1	309.7
172.5°	323.0	321.0	320.1	319.9	317.3	315.1	313.8	313.1	311.7	311.6	312.2
175°	319.0	317.7	317.7	318.4	316.6	315.3	315.3	314.7	314.0	314.0	314.7
177.5°	316.2	315.8	315.8	316.8	315.8	315.3	315.3	315.3	314.8	315.3	315.8
180°	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3



TEST NUMBER: P332510-927

CATALOG NUMBER: S124DIP-S350D810U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6
2.5°	455.6	457.1	459.1	462.3	463.5	465.0	467.1	467.0	467.5	469.8	474.6
5°	457.2	463.1	468.7	475.5	482.6	487.3	493.6	497.6	501.5	506.6	515.2
7.5°	458.0	467.1	477.4	489.3	499.9	512.0	521.5	530.4	538.5	549.1	559.4
10°	456.9	469.3	482.6	497.6	513.5	527.0	539.2	553.1	564.9	577.8	589.5
12.5°	455.0	469.8	487.7	504.5	523.1	543.0	558.3	572.3	588.0	602.9	620.8
15°	450.5	471.0	491.8	513.9	538.8	561.9	583.8	602.0	618.9	641.2	664.6
17.5°	444.9	466.9	493.2	520.0	546.1	572.4	599.5	626.9	648.2	675.9	694.2
20°	439.7	465.2	492.2	524.0	550.1	582.9	609.9	636.3	665.6	693.2	715.1
22.5°	432.3	460.2	488.9	520.5	554.8	587.7	618.9	647.5	676.8	706.8	733.3
25°	422.9	448.3	482.2	518.2	552.3	588.0	623.8	659.7	691.3	722.9	747.7
27.5°	407.1	439.0	470.6	507.8	545.7	586.0	624.3	661.9	695.0	721.0	736.3
30°	398.9	426.7	461.1	498.4	539.4	582.7	622.7	659.6	690.3	711.1	717.3
32.5°	387.0	415.6	449.2	487.8	531.3	575.8	617.3	652.2	677.9	688.8	681.4
35°	369.2	395.1	429.0	468.5	513.7	561.1	602.2	631.6	644.8	634.5	608.8
37.5°	347.8	373.4	407.5	446.4	493.1	541.4	578.5	599.7	595.3	569.7	531.4
40°	332.8	356.8	389.2	431.2	476.7	525.1	557.8	569.2	557.2	520.5	479.7
42.5°	316.2	339.5	372.1	412.6	460.9	505.5	533.9	534.9	514.8	470.8	430.0
45°	290.8	313.1	343.8	386.0	430.6	472.6	491.4	482.2	445.0	402.7	361.6
47.5°	265.8	285.1	315.4	355.5	397.8	433.2	442.5	426.0	386.4	345.2	307.2
50°	247.5	267.0	295.5	333.7	374.6	405.1	409.6	387.7	348.9	307.4	277.7
52.5°	229.9	249.3	276.7	312.1	349.5	377.1	377.2	351.9	313.2	276.3	248.6
55°	204.1	221.6	246.4	278.1	311.4	333.0	327.7	301.5	267.9	235.8	211.7
57.5°	179.4	194.6	217.3	243.8	273.1	291.0	282.3	257.0	227.0	199.8	181.5
60°	163.3	177.8	197.3	222.2	246.9	260.8	252.5	229.7	202.1	180.1	164.2
62.5°	147.7	159.9	178.6	200.3	223.2	233.5	226.2	203.6	179.7	159.9	146.9
65°	125.6	135.5	150.5	169.1	185.8	194.6	188.5	167.4	149.2	135.0	124.7
67.5°	105.0	112.7	124.1	139.0	153.2	158.0	152.3	137.7	122.3	110.9	103.6
70°	90.7	98.1	107.6	119.1	131.4	136.5	130.9	119.2	106.7	96.2	89.0
72.5°	78.3	84.0	92.1	101.8	111.5	116.5	112.7	101.6	90.9	83.1	77.1
75°	59.7	64.5	70.1	77.1	84.5	87.9	84.5	76.8	69.6	63.8	59.4
77.5°	43.3	45.9	50.3	55.5	60.2	62.7	59.8	54.7	50.1	46.2	44.0
80°	33.0	34.9	37.9	42.0	45.2	47.6	45.7	41.4	37.9	35.3	34.3
82.5°	24.0	25.3	27.3	30.3	32.4	33.7	32.9	29.7	28.3	26.0	25.0
85°	11.8	12.6	13.9	14.8	16.7	16.9	17.0	15.8	14.4	13.9	13.2
87.5°	4.4	4.9	5.5	6.1	6.7	7.6	7.4	7.7	7.4	7.1	6.6
90°	1.8	3.7	4.4	5.0	5.0	8.6	8.6	9.9	11.2	10.5	11.2
92.5°	10.3	16.1	23.7	32.7	45.6	77.1	125.1	172.0	196.5	163.7	121.7
95°	22.3	28.5	36.5	51.4	77.4	131.3	232.9	381.0	504.9	519.1	459.0
97.5°	36.7	42.0	49.4	62.2	84.0	125.5	209.4	356.6	531.7	652.1	678.1
100°	47.1	51.4	58.9	70.6	90.5	127.0	197.0	323.4	498.0	656.6	747.0
102.5°	58.0	61.8	68.8	80.0	98.9	131.9	193.5	301.0	455.9	619.4	743.5
105°	74.3	77.4	84.8	96.0	114.0	143.7	195.1	281.9	406.3	551.9	693.8
107.5°	90.8	93.9	101.8	112.5	130.2	157.5	204.3	278.4	378.6	497.4	623.1
110°	102.2	105.3	112.7	123.9	140.6	167.9	211.2	279.3	369.2	470.2	580.4



TEST NUMBER: P332510-927

CATALOG NUMBER: S124DIP-S350D810U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	113.1	116.7	123.7	134.8	151.5	177.8	218.6	282.3	364.7	454.8	549.2
115°	129.4	133.8	140.0	151.8	168.5	193.3	230.4	288.0	362.3	440.4	517.8
117.5°	145.7	149.6	156.4	167.4	184.7	208.3	242.4	294.1	361.7	434.0	502.5
120°	156.1	160.4	167.2	177.8	195.1	218.6	250.9	298.6	361.7	430.5	495.5
122.5°	166.0	170.3	176.7	188.1	205.0	228.5	258.8	303.0	361.2	426.5	489.6
125°	180.2	183.9	190.8	202.6	219.9	242.2	270.7	309.7	360.5	419.9	479.4
127.5°	191.3	195.7	203.5	215.8	233.3	254.8	281.0	315.1	359.2	411.1	467.1
130°	198.2	203.2	212.5	224.3	242.2	263.2	287.4	319.0	358.6	405.8	457.2
132.5°	204.1	210.6	219.4	232.2	249.1	270.2	293.8	322.5	358.1	400.8	446.7
135°	213.7	219.9	230.4	243.4	259.5	280.0	302.3	327.6	357.4	393.3	432.4
137.5°	222.6	229.4	239.5	252.9	268.3	287.4	308.2	330.7	357.3	386.9	419.4
140°	228.5	235.4	245.9	258.9	273.8	292.4	312.2	333.3	356.8	383.4	411.9
142.5°	235.5	241.9	251.8	264.4	278.8	296.8	315.1	335.3	356.8	380.5	405.0
145°	245.3	251.5	260.2	272.0	285.6	301.7	318.4	336.4	355.5	375.3	395.2
147.5°	255.1	260.5	269.4	279.2	291.5	306.7	321.2	337.0	353.3	370.8	387.1
150°	262.1	267.0	274.4	283.7	295.5	309.1	322.7	337.0	351.8	367.3	382.1
152.5°	268.0	272.9	279.9	288.2	299.0	311.1	323.7	336.0	349.4	363.4	376.8
155°	277.5	281.2	287.4	294.2	303.5	314.0	324.6	334.5	345.6	357.4	368.5
157.5°	285.7	289.1	294.0	299.9	307.2	316.2	324.6	332.9	341.8	351.3	359.7
160°	291.1	293.6	297.9	302.9	309.7	317.1	324.6	331.4	338.8	346.9	354.3
162.5°	295.6	297.5	301.4	305.9	311.2	318.1	324.6	329.9	335.9	342.9	348.9
165°	301.7	302.9	306.0	309.1	312.8	318.4	323.4	327.1	331.4	336.4	341.3
167.5°	306.7	307.2	309.6	311.3	314.2	318.3	321.9	324.1	326.9	330.4	334.0
170°	309.1	309.7	311.6	312.8	314.7	317.7	320.8	322.1	323.9	326.5	329.5
172.5°	311.6	311.7	313.1	313.8	315.1	317.3	319.9	320.1	321.0	323.0	325.6
175°	314.0	314.0	314.7	315.3	315.3	316.6	318.4	317.7	317.7	319.0	320.3
177.5°	315.3	314.8	315.3	315.3	315.3	315.8	316.8	315.8	315.8	316.2	316.8
180°	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3	315.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	452.6	452.6	452.6	452.6	452.6	452.6	452.6
2.5°	477.1	477.4	478.7	479.7	480.1	481.6	481.6
5°	519.0	522.1	528.3	528.9	529.8	534.7	530.9
7.5°	568.1	576.2	581.5	586.4	588.0	590.2	589.8
10°	599.6	611.6	617.6	627.2	627.5	629.9	628.4
12.5°	631.2	645.2	656.1	657.9	665.9	667.2	669.2
15°	676.0	690.9	706.1	711.5	722.5	725.2	729.3
17.5°	718.2	733.3	744.0	758.0	762.6	768.7	764.5
20°	741.3	757.8	771.3	782.4	787.0	790.4	790.0
22.5°	755.3	771.9	782.8	791.2	795.6	797.0	796.9
25°	764.0	773.6	777.0	780.1	775.2	773.6	774.3
27.5°	739.7	737.2	728.4	716.8	704.9	695.4	690.1
30°	706.2	691.7	678.3	655.1	643.1	636.0	629.5
32.5°	658.9	635.6	610.1	588.7	575.1	564.6	563.0
35°	577.7	542.8	511.4	485.4	471.9	460.5	457.8
37.5°	491.1	454.9	426.7	403.7	389.2	381.1	373.6
40°	433.6	402.5	374.8	355.3	344.2	338.4	333.7
42.5°	389.4	361.0	333.4	318.5	308.6	305.0	302.2
45°	328.3	301.8	282.7	271.5	265.7	259.7	256.8
47.5°	279.3	257.9	245.3	235.7	229.4	225.9	224.1
50°	251.6	234.0	222.8	215.4	209.8	207.0	205.5
52.5°	227.0	212.5	203.1	197.3	193.5	191.4	190.8
55°	195.5	184.5	178.5	173.4	170.6	168.7	168.0
57.5°	170.0	161.4	156.6	152.4	151.3	149.8	149.2
60°	153.2	146.6	142.5	139.7	138.7	136.9	137.2
62.5°	138.3	132.9	129.4	127.9	126.6	125.0	125.6
65°	117.0	113.0	111.1	109.7	108.2	107.3	108.0
67.5°	98.2	95.5	92.9	92.1	91.3	91.2	90.4
70°	85.9	83.7	81.4	80.8	80.8	80.1	79.9
72.5°	74.0	72.4	70.9	70.4	69.9	70.2	69.4
75°	57.2	55.8	55.3	54.7	54.6	54.6	54.0
77.5°	42.2	41.3	40.4	40.4	39.7	39.5	39.4
80°	32.1	31.7	31.0	31.0	30.6	30.7	30.3
82.5°	24.1	23.6	23.4	23.1	22.6	22.7	22.3
85°	12.9	12.4	12.2	11.6	11.2	11.6	11.2
87.5°	6.9	6.8	6.7	6.5	6.5	6.3	5.9
90°	11.8	12.4	12.4	13.0	13.6	13.0	13.0
92.5°	91.6	72.9	60.4	53.2	49.8	47.7	47.7
95°	363.0	280.0	219.9	189.6	170.3	159.2	151.1
97.5°	642.5	581.9	517.2	472.8	435.5	416.8	404.0
100°	759.4	729.0	683.3	629.3	591.5	573.0	568.0
102.5°	805.0	813.8	794.7	761.7	734.3	714.7	710.7
105°	800.9	862.2	887.6	888.9	883.9	875.3	871.6
107.5°	737.1	823.5	878.7	909.3	923.4	929.6	931.2
110°	687.5	777.4	845.5	889.5	915.5	926.7	932.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	644.0	728.8	796.9	846.8	878.4	894.0	903.0
115°	594.1	666.5	726.0	774.9	812.1	831.9	836.9
117.5°	565.5	622.5	673.0	714.7	745.9	766.0	769.8
120°	553.2	602.7	646.7	682.0	709.2	725.3	732.1
122.5°	545.2	590.3	628.8	658.7	682.0	695.6	702.4
125°	532.7	575.4	609.5	634.3	652.3	664.0	667.7
127.5°	517.9	560.5	592.9	617.8	633.8	643.7	647.5
130°	506.0	548.2	581.0	606.4	621.9	631.8	635.6
132.5°	492.7	533.9	566.6	591.5	609.0	618.5	622.2
135°	472.6	510.4	541.4	566.2	583.5	593.4	597.1
137.5°	453.4	485.3	513.3	536.4	553.5	561.7	566.2
140°	441.0	468.9	495.0	516.6	530.2	538.9	543.8
142.5°	430.6	454.6	477.1	496.3	508.9	516.6	520.1
145°	416.3	434.8	452.2	467.7	478.2	484.4	487.5
147.5°	403.9	418.7	432.4	443.8	452.8	457.5	458.6
150°	396.4	408.8	419.9	429.9	437.9	441.6	442.3
152.5°	389.0	400.4	409.6	418.0	424.5	426.7	427.4
155°	378.5	387.8	395.2	401.4	406.3	408.2	408.2
157.5°	368.0	375.9	381.8	386.5	390.2	391.3	391.3
160°	361.2	368.0	372.9	376.6	380.3	381.0	381.0
162.5°	354.7	360.0	364.5	367.2	370.9	371.5	371.1
165°	345.0	349.4	352.4	354.9	357.4	356.8	356.2
167.5°	336.8	340.3	342.1	343.4	345.0	344.9	344.4
170°	331.4	333.9	335.7	337.0	337.5	337.0	337.0
172.5°	326.9	328.4	329.8	330.5	331.1	330.5	329.5
175°	320.8	322.1	322.1	322.1	323.4	322.1	320.8
177.5°	317.3	317.3	317.7	317.3	317.7	316.8	315.8
180°	315.3	315.3	315.3	315.3	315.3	315.3	315.3

(END OF REPORT)