

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: P332885-830

Luminaire Tested: **S124RDIP-S350D1035U830-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332885-830
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: S124RDIP-S350D1035U830-4F0-1E-UDD-A4
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 350 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1035 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4885.4 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: Semi-Indirect

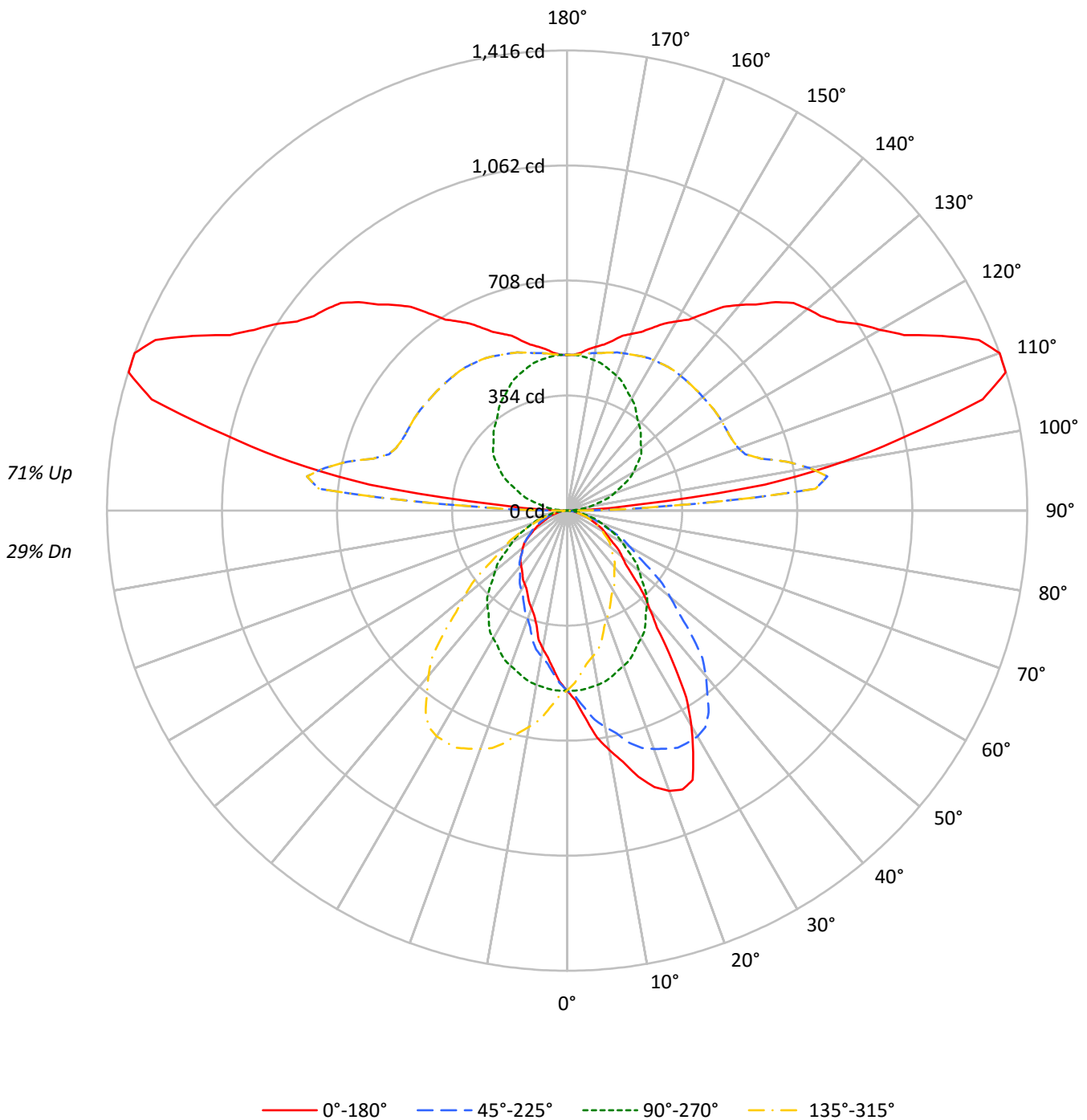
Input Watts (W): 37.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	102	102	102	91	91	91	91	72	72	72	53	53	53	37	37	37	29
1	93	89	86	82	83	80	77	74	63	61	59	47	46	45	33	32	31	25
2	85	78	72	68	76	70	65	61	55	52	49	42	40	38	29	28	27	21
3	78	69	62	56	69	62	56	51	49	45	42	37	34	32	26	24	23	18
4	71	61	53	48	64	55	49	44	44	39	36	33	30	28	23	22	20	16
5	65	54	47	41	58	49	42	37	39	34	31	30	27	24	21	19	18	14
6	60	49	41	35	54	44	37	32	35	30	27	27	24	21	19	17	15	12
7	55	44	36	31	50	40	33	28	32	27	23	24	21	19	18	15	14	11
8	51	40	32	27	46	36	30	25	29	24	21	22	19	17	16	14	12	10
9	48	36	29	24	43	33	27	22	26	22	19	20	17	15	15	13	11	9
10	45	33	26	22	40	30	24	20	24	20	17	19	16	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4469	4469	4469	4469
5°	5185	4483	3963	4483
10°	6133	4464	3536	4464
15°	7084	4422	3039	4422
20°	7887	4365	2748	4365
25°	8143	4309	2551	4309
30°	7128	4242	2433	4242
35°	5549	4142	2361	4142
40°	4161	4027	2323	4027
45°	3286	3843	2302	3843
50°	2773	3631	2236	3631
55°	2417	3398	2115	3398
60°	2175	3155	1873	3155
65°	1918	2894	1612	2894
70°	1725	2622	1452	2622
75°	1447	2324	1238	2324
80°	1223	1980	1162	1980
85°	1028	1556	1028	1556



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.6	1.1
10°-20°	161.8	3.3
20°-30°	253.1	5.2
30°-40°	281.4	5.8
40°-50°	249.6	5.1
50°-60°	194.5	4.0
60°-70°	127.4	2.6
70°-80°	62.6	1.3
80°-90°	18.1	0.4
90°-100°	345.9	7.1
100°-110°	720.0	14.7
110°-120°	644.9	13.2
120°-130°	542.4	11.1
130°-140°	452.3	9.3
140°-150°	345.5	7.1
150°-160°	242.9	5.0
160°-170°	142.9	2.9
170°-180°	46.5	1.0
0°-30°	468.6	9.6
0°-40°	749.9	15.4
0°-60°	1194.1	24.4
0°-90°	1402.2	28.7
90°-120°	1710.8	35.0
90°-150°	3051.1	62.5
90°-180°	3483.0	71.3
0°-180°	4885.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	554	554	554	554	554	
5°	640	553	489	553	640	65
15°	848	529	364	529	848	241
25°	914	484	286	484	914	406
35°	563	420	240	420	563	353
45°	288	337	202	337	288	228
55°	172	241	150	241	172	156
65°	100	152	84	152	100	101
75°	46	74	40	74	46	51
85°	11	17	11	17	11	13
90°	20	1	20	1	20	16
95°	230	31	230	31	230	356
105°	1324	110	1324	110	1324	1309
115°	1271	194	1271	194	1271	1262
125°	1014	270	1014	270	1014	922
135°	907	321	907	321	907	700
145°	741	370	741	370	741	469
155°	620	421	620	421	620	289
165°	541	458	541	458	541	155
175°	487	478	487	478	487	47
180°	479	479	479	479	479	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6
2.5°	584.0	585.6	584.0	583.8	582.0	581.5	580.8	578.4	574.2	571.7	572.2
5°	639.8	645.4	642.2	641.8	636.9	632.0	628.9	621.7	614.1	609.0	604.7
7.5°	704.3	707.5	705.5	702.4	694.5	689.9	682.7	673.4	659.7	649.3	639.8
10°	748.2	750.8	750.0	744.1	738.4	726.5	719.8	706.7	689.5	675.9	663.2
12.5°	791.4	794.2	786.4	786.6	775.6	766.3	755.7	739.1	719.3	701.8	685.9
15°	847.6	844.0	844.0	839.6	827.4	814.5	803.5	786.1	761.1	740.2	718.0
17.5°	891.7	893.0	891.2	880.6	871.0	857.6	837.5	817.3	794.1	765.9	743.4
20°	918.1	918.1	916.2	909.0	896.5	882.2	860.6	838.5	809.1	780.7	755.4
22.5°	928.9	929.5	927.2	921.3	910.1	896.2	877.7	855.3	824.9	793.1	761.6
25°	914.2	918.4	918.8	917.3	913.9	905.4	889.6	866.7	839.4	804.8	770.9
27.5°	839.2	844.6	849.3	857.1	867.3	872.6	873.4	861.7	837.9	804.6	770.5
30°	764.7	769.1	783.6	802.6	817.3	830.7	842.4	845.5	832.1	802.2	766.3
32.5°	681.8	688.0	702.5	722.8	747.3	770.1	796.1	809.4	809.0	791.1	757.9
35°	563.0	567.5	580.9	602.3	631.7	665.4	706.7	738.8	760.6	759.1	738.8
37.5°	454.1	459.1	472.6	490.4	519.0	560.6	600.6	644.9	685.2	707.9	701.2
40°	394.8	395.0	408.2	426.5	453.3	489.7	533.1	582.2	627.3	664.1	671.2
42.5°	348.1	348.1	356.8	376.5	395.8	430.0	471.6	520.3	573.1	615.6	634.4
45°	287.8	289.7	296.9	308.7	323.9	352.9	386.2	431.4	490.5	540.9	572.4
47.5°	243.6	246.7	251.2	260.8	272.9	292.2	319.7	360.4	408.5	463.9	508.7
50°	220.8	221.3	227.1	232.4	242.9	258.4	282.4	316.3	360.5	413.8	463.5
52.5°	201.2	201.1	204.6	211.4	219.9	231.9	251.4	282.2	321.4	369.2	420.6
55°	171.7	172.9	175.6	180.9	187.4	195.9	211.2	234.4	265.2	306.0	352.7
57.5°	149.4	150.0	152.0	154.3	160.2	166.5	178.0	194.1	220.0	253.4	296.9
60°	134.7	135.0	135.6	138.9	143.6	149.5	157.3	170.9	192.7	223.3	257.7
62.5°	120.5	120.8	121.9	124.3	128.0	132.0	140.2	151.1	169.2	195.3	226.2
65°	100.4	100.6	102.2	103.0	105.9	109.5	115.6	122.9	135.4	157.3	180.7
67.5°	83.9	83.9	84.0	85.2	87.2	89.5	93.1	99.1	108.5	121.9	142.5
70°	73.1	73.1	73.6	74.3	75.4	77.4	79.5	83.9	90.8	101.7	117.5
72.5°	63.2	63.3	63.8	63.9	64.5	66.2	67.7	70.5	75.6	83.9	96.7
75°	46.4	47.0	48.2	49.1	50.2	50.0	51.6	53.3	54.9	59.8	67.1
77.5°	34.5	34.2	34.3	35.1	35.2	35.4	36.6	37.9	39.1	41.4	44.0
80°	26.3	26.3	27.0	27.2	27.0	27.2	28.4	29.0	29.4	30.3	32.8
82.5°	19.9	20.3	20.1	20.3	20.4	20.6	21.6	21.7	22.1	22.5	23.5
85°	11.1	11.4	11.6	11.1	11.1	11.1	11.6	11.8	12.3	12.1	12.5
87.5°	7.9	7.7	8.1	7.9	7.8	7.7	7.6	7.8	7.3	7.6	7.3
90°	19.8	19.8	20.7	19.8	18.9	18.9	17.9	17.0	16.0	17.0	15.1
92.5°	72.5	72.5	75.7	80.8	91.8	110.7	139.1	184.8	248.6	298.5	261.2
95°	229.6	241.9	258.7	287.9	334.0	425.3	551.4	697.2	788.5	766.9	578.7
97.5°	613.7	633.3	661.5	718.1	785.7	883.9	975.9	1030.2	990.6	807.7	541.6
100°	862.9	870.3	898.6	956.0	1037.8	1107.5	1153.6	1134.8	997.4	756.5	491.2
102.5°	1079.7	1085.7	1115.4	1157.0	1207.2	1236.2	1222.9	1129.5	940.9	692.6	457.3
105°	1323.9	1329.6	1342.7	1350.3	1348.4	1309.8	1216.6	1053.9	838.4	617.3	428.1
107.5°	1414.7	1412.2	1402.8	1381.3	1334.8	1250.9	1119.7	946.4	755.5	575.1	422.8
110°	1416.2	1407.7	1390.7	1351.2	1284.4	1180.9	1044.4	881.7	714.2	560.8	424.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1371.7	1358.0	1334.3	1286.5	1210.6	1107.1	978.2	834.2	690.9	554.0	428.9
115°	1271.2	1263.7	1233.6	1177.1	1102.8	1012.5	902.4	786.6	669.0	550.4	437.5
117.5°	1169.4	1163.6	1133.1	1085.7	1022.3	945.7	859.1	763.3	659.2	549.5	446.8
120°	1112.2	1101.8	1077.4	1035.9	982.3	915.6	840.3	752.7	653.9	549.5	453.6
122.5°	1067.1	1056.7	1035.9	1000.6	955.3	896.7	828.2	743.8	647.9	548.7	460.3
125°	1014.4	1008.7	990.8	963.6	925.9	874.1	809.2	728.3	638.0	547.6	470.5
127.5°	983.4	977.8	962.8	938.5	900.7	851.6	786.8	709.5	624.6	545.5	478.5
130°	965.4	959.8	944.7	921.1	882.6	832.7	768.7	694.5	616.3	544.8	484.6
132.5°	945.1	939.4	925.1	898.6	860.8	810.9	748.5	678.6	608.8	544.0	489.8
135°	907.1	901.4	886.4	860.1	822.4	775.3	717.9	656.8	597.5	542.9	497.8
137.5°	860.1	853.3	840.8	814.8	779.7	737.2	688.8	637.1	587.7	542.7	502.5
140°	826.1	818.6	805.5	784.8	751.8	712.3	670.0	625.8	582.5	542.0	506.2
142.5°	790.0	784.8	773.1	753.8	724.7	690.5	654.1	615.2	578.0	542.0	509.3
145°	740.6	735.8	726.4	710.4	686.9	660.5	632.4	600.3	570.2	540.1	511.0
147.5°	696.6	695.0	687.9	674.1	656.8	636.1	613.5	588.1	563.3	536.7	511.9
150°	671.8	670.9	665.2	653.0	638.0	621.0	602.2	580.6	558.0	534.4	511.9
152.5°	649.2	648.3	644.9	635.0	622.2	608.2	590.9	572.3	552.0	530.7	510.4
155°	620.1	620.1	617.3	609.7	600.3	589.0	575.0	559.9	542.9	525.1	508.1
157.5°	594.5	594.5	592.8	587.1	580.0	571.0	559.1	546.5	533.7	519.2	505.7
160°	578.7	578.7	577.8	572.1	566.5	558.9	548.6	538.2	527.0	514.7	503.4
162.5°	563.6	564.4	563.5	557.8	553.6	546.9	538.8	529.9	520.9	510.2	501.1
165°	541.0	542.0	542.9	539.1	535.4	530.7	524.1	518.5	511.0	503.4	496.8
167.5°	523.2	524.0	524.1	521.7	519.8	517.0	511.7	507.4	501.9	496.6	492.3
170°	511.9	511.9	512.8	511.9	510.0	507.2	503.4	500.6	495.9	492.1	489.3
172.5°	500.6	502.1	503.0	502.1	501.0	498.9	496.6	494.6	490.6	487.6	486.3
175°	487.4	489.3	491.2	489.3	489.3	489.3	487.4	486.4	484.6	482.7	482.7
177.5°	479.7	481.2	482.7	481.9	482.7	481.9	481.9	481.2	480.4	479.7	479.7
180°	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6
2.5°	570.4	568.0	566.7	563.8	560.4	558.6	557.0	554.7	551.7	548.5	546.2
5°	599.4	594.0	587.3	579.3	572.2	565.2	559.2	553.2	546.3	539.1	532.1
7.5°	629.1	618.6	607.2	594.0	581.3	569.6	558.8	548.7	537.1	526.6	517.2
10°	649.8	635.6	619.7	602.9	586.3	571.7	557.4	544.5	530.3	517.6	506.8
12.5°	666.6	649.8	630.7	609.9	589.7	572.2	555.8	538.9	522.7	509.0	494.6
15°	694.4	671.5	645.8	620.8	594.7	570.8	548.7	529.1	510.6	491.2	477.6
17.5°	713.6	686.3	655.1	625.1	594.3	566.1	540.6	517.3	495.9	476.1	459.9
20°	725.0	694.8	660.3	626.1	591.5	561.5	534.0	508.1	486.1	464.7	447.9
22.5°	731.4	698.0	660.3	624.5	588.7	556.1	526.0	499.1	475.0	453.6	435.1
25°	733.5	697.8	659.2	618.1	578.9	544.3	513.0	483.8	457.0	435.6	416.0
27.5°	730.6	688.5	649.0	606.9	566.4	530.0	497.2	466.5	439.7	416.7	396.5
30°	726.3	681.3	638.9	595.1	554.1	519.1	484.5	455.1	427.2	403.3	383.0
32.5°	717.0	672.3	626.7	581.9	540.4	504.3	471.5	441.9	414.5	390.1	368.5
35°	698.6	653.4	603.9	557.9	517.1	479.6	448.8	420.3	394.2	368.1	345.3
37.5°	674.4	628.2	578.9	528.6	487.7	452.3	424.1	397.3	371.8	348.0	322.8
40°	651.6	609.4	558.6	508.6	466.7	432.5	406.4	382.1	356.5	332.8	307.6
42.5°	624.0	588.1	536.6	486.4	445.1	412.2	387.9	364.1	340.7	317.8	291.5
45°	577.8	550.5	502.4	454.2	412.5	379.8	357.6	336.6	316.1	294.3	269.5
47.5°	524.8	506.4	464.9	415.5	376.9	347.6	326.0	308.9	291.5	269.7	248.0
50°	488.0	476.3	436.1	391.1	354.2	327.3	305.2	289.1	274.6	253.6	234.2
52.5°	448.8	442.5	408.6	365.5	330.0	303.5	284.6	270.2	255.5	238.1	220.0
55°	389.0	392.4	363.6	326.3	292.8	270.6	253.4	241.4	228.8	214.1	200.1
57.5°	327.9	340.2	320.8	288.1	256.7	236.1	223.2	213.1	202.6	190.4	178.3
60°	291.3	301.6	290.7	261.8	234.4	215.3	203.2	195.4	184.9	173.8	164.7
62.5°	255.6	266.6	260.1	236.9	211.4	194.9	184.3	177.0	169.2	159.5	150.0
65°	210.8	217.9	214.8	198.8	180.7	166.6	156.8	151.5	144.3	137.2	128.8
67.5°	161.5	175.2	173.4	164.9	149.3	138.3	131.9	127.1	120.6	115.4	109.6
70°	132.7	145.4	145.2	138.3	129.8	119.6	115.1	111.1	105.3	100.2	95.5
72.5°	108.7	120.3	122.1	116.7	110.9	103.1	98.9	96.1	90.5	87.0	83.1
75°	76.1	84.5	86.8	86.8	84.1	80.1	76.3	74.5	70.5	67.4	65.1
77.5°	49.9	55.2	58.7	59.5	59.9	58.5	55.4	54.2	51.1	50.0	47.9
80°	35.3	38.8	42.8	44.2	45.2	44.9	43.5	42.6	39.7	38.5	37.7
82.5°	24.3	26.3	29.6	32.6	32.2	33.5	32.2	31.6	29.3	28.9	28.1
85°	12.7	12.9	13.4	15.4	16.5	17.0	17.2	16.8	16.0	16.0	14.5
87.5°	6.9	6.7	5.9	5.9	5.9	6.5	6.4	6.2	6.1	6.1	5.7
90°	13.2	13.2	7.5	7.5	6.6	5.7	2.8	0.9	2.8	5.7	6.6
92.5°	190.1	117.1	69.3	49.7	35.9	24.5	15.6	10.7	15.6	24.5	35.9
95°	353.8	199.4	117.6	78.1	55.5	43.3	33.8	31.0	33.8	43.3	55.5
97.5°	318.0	190.7	127.6	94.4	75.1	63.8	55.7	55.7	55.7	63.8	75.1
100°	299.3	192.9	137.4	107.3	89.4	78.1	71.5	71.5	71.5	78.1	89.4
102.5°	294.0	200.4	150.1	121.6	104.4	93.9	88.0	86.5	88.0	93.9	104.4
105°	296.4	218.3	173.1	145.8	128.9	117.6	112.9	110.1	112.9	117.6	128.9
107.5°	310.3	239.2	197.7	170.9	154.7	142.6	138.0	136.1	138.0	142.6	154.7
110°	320.8	255.0	213.6	188.2	171.3	159.9	155.2	153.4	155.2	159.9	171.3



TEST NUMBER: P332885-830

CATALOG NUMBER: S124RDIP-S350D1035U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	332.2	270.0	230.2	204.7	187.8	177.3	171.8	169.9	171.8	177.3	187.8
115°	350.1	293.6	255.9	230.5	212.6	203.2	196.6	193.9	196.6	203.2	212.6
117.5°	368.3	316.3	280.6	254.2	237.5	227.2	221.3	218.7	221.3	227.2	237.5
120°	381.1	332.2	296.4	270.0	254.0	243.7	237.1	235.3	237.1	243.7	254.0
122.5°	393.1	347.2	311.4	285.9	268.3	258.7	252.1	250.3	252.1	258.7	268.3
125°	411.2	367.9	334.0	307.6	289.8	279.5	273.8	270.0	273.8	279.5	289.8
127.5°	426.8	387.1	354.4	327.8	309.2	297.4	290.6	287.6	290.6	297.4	309.2
130°	436.6	399.9	367.9	340.6	322.7	308.6	301.1	297.4	301.1	308.6	322.7
132.5°	446.4	410.5	378.4	352.7	333.3	319.9	310.1	307.1	310.1	319.9	333.3
135°	459.2	425.3	394.3	369.8	350.1	334.0	324.6	320.8	324.6	334.0	350.1
137.5°	468.3	436.6	407.6	384.3	363.7	348.6	338.2	334.6	338.2	348.6	363.7
140°	474.2	444.1	415.9	393.3	373.5	357.6	347.2	344.4	347.2	357.6	373.5
142.5°	478.7	450.9	423.4	401.6	382.6	367.3	357.8	355.0	357.8	367.3	382.6
145°	483.6	458.3	433.8	413.1	395.2	382.0	372.6	369.8	372.6	382.0	395.2
147.5°	488.0	465.8	442.8	424.1	409.3	395.8	387.5	386.5	387.5	395.8	409.3
150°	490.2	469.6	448.8	430.9	416.9	405.6	398.0	397.1	398.0	405.6	416.9
152.5°	491.7	472.6	454.1	437.7	425.1	414.6	407.1	406.9	407.1	414.6	425.1
155°	493.0	477.0	461.1	447.0	436.6	427.2	421.5	420.6	421.5	427.2	436.6
157.5°	493.0	480.2	466.7	455.6	446.6	439.2	433.9	433.9	433.9	439.2	446.6
160°	493.0	481.7	470.5	460.1	452.6	446.0	442.2	442.2	442.2	446.0	452.6
162.5°	493.0	483.2	472.8	464.7	457.9	452.0	449.0	449.8	449.0	452.0	457.9
165°	491.2	483.6	475.1	469.6	464.9	460.1	458.3	458.3	458.3	460.1	464.9
167.5°	488.9	483.4	477.2	473.0	470.3	466.7	465.8	466.7	465.8	466.7	470.3
170°	487.4	482.7	478.0	475.1	473.3	470.5	469.6	470.5	469.6	470.5	473.3
172.5°	485.9	481.9	478.7	476.6	475.5	473.4	473.3	474.2	473.3	473.4	475.5
175°	483.6	480.8	478.9	478.9	478.0	477.0	477.0	478.0	477.0	477.0	478.0
177.5°	481.2	479.7	478.9	478.9	478.9	478.2	478.9	479.7	478.9	478.2	478.9
180°	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9



TEST NUMBER: P332885-830

CATALOG NUMBER: S124RDIP-S350D1035U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6
2.5°	543.7	541.9	539.6	536.9	533.7	530.8	529.5	530.7	531.2	529.7	529.5
5°	527.1	521.5	517.1	510.4	505.0	500.6	497.5	496.1	496.5	492.9	492.1
7.5°	508.5	501.9	494.6	486.6	479.3	472.7	469.3	467.4	463.5	461.9	459.2
10°	496.5	487.7	480.5	471.1	462.6	454.9	451.0	447.9	444.1	442.3	438.6
12.5°	484.3	473.9	466.0	456.3	447.6	438.3	434.6	428.9	422.9	419.1	414.2
15°	466.8	454.4	444.8	433.2	422.9	412.3	402.7	391.9	388.0	379.5	374.6
17.5°	446.6	433.9	422.1	406.5	390.7	377.3	367.1	356.8	350.7	345.3	342.8
20°	433.2	421.6	405.1	387.0	369.4	354.7	346.4	339.7	333.0	329.2	326.6
22.5°	420.6	405.7	386.5	367.0	349.4	337.9	330.9	324.0	318.6	315.0	311.4
25°	399.3	379.8	359.6	337.2	325.3	315.2	307.6	302.0	298.7	294.0	292.2
27.5°	377.5	353.9	331.6	316.6	304.1	294.8	288.2	284.1	279.8	276.8	274.5
30°	360.7	336.9	316.8	302.5	289.7	282.2	276.8	271.9	268.5	266.1	264.4
32.5°	344.1	320.3	303.4	288.0	278.0	270.6	264.9	261.2	258.5	255.4	254.3
35°	320.1	298.9	284.2	270.3	260.1	253.4	248.9	245.2	242.9	242.0	241.4
37.5°	297.0	279.7	263.8	252.5	243.4	238.1	232.8	230.9	229.4	227.8	228.6
40°	282.4	266.1	252.0	240.1	232.6	226.9	223.8	221.5	220.2	220.2	220.2
42.5°	269.8	253.8	240.1	229.3	222.0	217.1	213.6	211.7	211.2	211.0	212.2
45°	250.1	235.4	221.5	212.5	206.3	201.4	199.4	197.8	197.8	198.8	199.0
47.5°	230.5	216.8	205.7	195.7	189.9	186.9	185.1	184.4	184.5	185.3	186.3
50°	218.6	205.0	194.1	185.1	179.8	176.9	175.3	174.8	175.3	175.3	176.9
52.5°	205.6	193.4	182.7	175.1	169.1	166.4	165.5	164.9	165.1	165.9	166.5
55°	186.5	175.6	165.3	158.2	153.7	151.9	149.9	150.1	149.7	150.1	150.1
57.5°	167.3	157.5	148.0	142.3	138.4	135.8	133.7	134.2	133.6	133.5	133.1
60°	155.0	144.3	136.8	131.6	127.1	124.9	122.9	123.4	122.7	122.2	121.3
62.5°	141.7	132.7	125.5	120.6	117.0	114.4	112.4	112.0	110.4	108.9	106.9
65°	122.2	114.9	108.4	103.8	100.4	98.4	96.8	95.5	92.1	88.6	86.8
67.5°	103.4	98.0	92.0	88.0	85.3	82.8	79.7	77.5	74.4	72.4	71.3
70°	91.2	86.1	81.0	77.2	74.3	71.8	68.5	66.9	64.7	63.8	62.7
72.5°	79.6	74.8	70.1	66.6	63.6	61.6	59.0	57.5	56.5	56.1	55.0
75°	62.0	58.2	54.7	51.6	49.1	47.7	46.7	45.5	45.1	43.1	41.9
77.5°	45.2	42.7	40.5	38.3	36.6	35.6	33.5	32.2	31.5	30.5	30.3
80°	35.3	33.5	31.2	29.9	27.4	26.6	25.6	25.4	25.2	25.0	24.8
82.5°	26.5	24.7	22.5	21.7	21.0	20.5	20.0	19.7	19.5	19.6	19.6
85°	13.4	12.5	12.5	12.3	12.1	11.8	11.6	11.6	11.4	11.6	11.4
87.5°	5.9	5.7	6.9	6.6	7.1	7.4	7.2	7.4	7.6	7.5	7.5
90°	7.5	7.5	13.2	13.2	15.1	17.0	16.0	17.0	17.9	18.9	18.9
92.5°	49.7	69.3	117.1	190.1	261.2	298.5	248.6	184.8	139.1	110.7	91.8
95°	78.1	117.6	199.4	353.8	578.7	766.9	788.5	697.2	551.4	425.3	334.0
97.5°	94.4	127.6	190.7	318.0	541.6	807.7	990.6	1030.2	975.9	883.9	785.7
100°	107.3	137.4	192.9	299.3	491.2	756.5	997.4	1134.8	1153.6	1107.5	1037.8
102.5°	121.6	150.1	200.4	294.0	457.3	692.6	940.9	1129.5	1222.9	1236.2	1207.2
105°	145.8	173.1	218.3	296.4	428.1	617.3	838.4	1053.9	1216.6	1309.8	1348.4
107.5°	170.9	197.7	239.2	310.3	422.8	575.1	755.5	946.4	1119.7	1250.9	1334.8
110°	188.2	213.6	255.0	320.8	424.3	560.8	714.2	881.7	1044.4	1180.9	1284.4



TEST NUMBER: P332885-830

CATALOG NUMBER: S124RDIP-S350D1035U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	204.7	230.2	270.0	332.2	428.9	554.0	690.9	834.2	978.2	1107.1	1210.6
115°	230.5	255.9	293.6	350.1	437.5	550.4	669.0	786.6	902.4	1012.5	1102.8
117.5°	254.2	280.6	316.3	368.3	446.8	549.5	659.2	763.3	859.1	945.7	1022.3
120°	270.0	296.4	332.2	381.1	453.6	549.5	653.9	752.7	840.3	915.6	982.3
122.5°	285.9	311.4	347.2	393.1	460.3	548.7	647.9	743.8	828.2	896.7	955.3
125°	307.6	334.0	367.9	411.2	470.5	547.6	638.0	728.3	809.2	874.1	925.9
127.5°	327.8	354.4	387.1	426.8	478.5	545.5	624.6	709.5	786.8	851.6	900.7
130°	340.6	367.9	399.9	436.6	484.6	544.8	616.3	694.5	768.7	832.7	882.6
132.5°	352.7	378.4	410.5	446.4	489.8	544.0	608.8	678.6	748.5	810.9	860.8
135°	369.8	394.3	425.3	459.2	497.8	542.9	597.5	656.8	717.9	775.3	822.4
137.5°	384.3	407.6	436.6	468.3	502.5	542.7	587.7	637.1	688.8	737.2	779.7
140°	393.3	415.9	444.1	474.2	506.2	542.0	582.5	625.8	670.0	712.3	751.8
142.5°	401.6	423.4	450.9	478.7	509.3	542.0	578.0	615.2	654.1	690.5	724.7
145°	413.1	433.8	458.3	483.6	511.0	540.1	570.2	600.3	632.4	660.5	686.9
147.5°	424.1	442.8	465.8	488.0	511.9	536.7	563.3	588.1	613.5	636.1	656.8
150°	430.9	448.8	469.6	490.2	511.9	534.4	558.0	580.6	602.2	621.0	638.0
152.5°	437.7	454.1	472.6	491.7	510.4	530.7	552.0	572.3	590.9	608.2	622.2
155°	447.0	461.1	477.0	493.0	508.1	525.1	542.9	559.9	575.0	589.0	600.3
157.5°	455.6	466.7	480.2	493.0	505.7	519.2	533.7	546.5	559.1	571.0	580.0
160°	460.1	470.5	481.7	493.0	503.4	514.7	527.0	538.2	548.6	558.9	566.5
162.5°	464.7	472.8	483.2	493.0	501.1	510.2	520.9	529.9	538.8	546.9	553.6
165°	469.6	475.1	483.6	491.2	496.8	503.4	511.0	518.5	524.1	530.7	535.4
167.5°	473.0	477.2	483.4	488.9	492.3	496.6	501.9	507.4	511.7	517.0	519.8
170°	475.1	478.0	482.7	487.4	489.3	492.1	495.9	500.6	503.4	507.2	510.0
172.5°	476.6	478.7	481.9	485.9	486.3	487.6	490.6	494.6	496.6	498.9	501.0
175°	478.9	478.9	480.8	483.6	482.7	482.7	484.6	486.4	487.4	489.3	489.3
177.5°	478.9	478.9	479.7	481.2	479.7	479.7	480.4	481.2	481.9	481.9	482.7
180°	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9



TEST NUMBER: P332885-830

CATALOG NUMBER: S124RDIP-S350D1035U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6
2.5°	528.5	528.9	527.6	527.3	527.6	528.9	528.5	529.5	529.7	531.2	530.7
5°	490.3	489.8	488.7	489.0	488.7	489.8	490.3	492.1	492.9	496.5	496.1
7.5°	457.6	455.9	456.4	454.6	456.4	455.9	457.6	459.2	461.9	463.5	467.4
10°	437.6	435.2	433.2	431.4	433.2	435.2	437.6	438.6	442.3	444.1	447.9
12.5°	410.4	408.2	405.6	406.0	405.6	408.2	410.4	414.2	419.1	422.9	428.9
15°	371.6	368.3	363.0	363.6	363.0	368.3	371.6	374.6	379.5	388.0	391.9
17.5°	338.8	338.8	336.4	337.1	336.4	338.8	338.8	342.8	345.3	350.7	356.8
20°	321.9	320.4	320.6	319.9	320.6	320.4	321.9	326.6	329.2	333.0	339.7
22.5°	310.1	308.2	306.6	305.3	306.6	308.2	310.1	311.4	315.0	318.6	324.0
25°	290.2	288.9	286.9	286.4	286.9	288.9	290.2	292.2	294.0	298.7	302.0
27.5°	272.7	272.5	271.6	270.6	271.6	272.5	272.7	274.5	276.8	279.8	284.1
30°	262.6	262.1	261.6	261.0	261.6	262.1	262.6	264.4	266.1	268.5	271.9
32.5°	253.4	253.2	252.7	252.8	252.7	253.2	253.4	254.3	255.4	258.5	261.2
35°	240.4	240.3	239.8	239.6	239.8	240.3	240.4	241.4	242.0	242.9	245.2
37.5°	228.4	228.9	228.7	228.6	228.7	228.9	228.4	228.6	227.8	229.4	230.9
40°	220.0	220.2	220.6	220.4	220.6	220.2	220.0	220.2	220.2	220.2	221.5
42.5°	213.0	213.0	213.7	212.9	213.7	213.0	213.0	212.2	211.0	211.2	211.7
45°	200.6	201.9	201.6	201.6	201.6	201.9	200.6	199.0	198.8	197.8	197.8
47.5°	186.9	188.1	188.4	188.3	188.4	188.1	186.9	186.3	185.3	184.5	184.4
50°	178.0	177.6	178.2	178.0	178.2	177.6	178.0	176.9	175.3	175.3	174.8
52.5°	167.1	167.2	167.2	166.9	167.2	167.2	167.1	166.5	165.9	165.1	164.9
55°	150.3	150.6	150.1	150.3	150.1	150.6	150.3	150.1	150.1	149.7	150.1
57.5°	132.1	131.1	131.5	131.0	131.5	131.1	132.1	133.1	133.5	133.6	134.2
60°	119.1	117.3	116.9	116.0	116.9	117.3	119.1	121.3	122.2	122.7	123.4
62.5°	104.5	103.2	101.7	102.5	101.7	103.2	104.5	106.9	108.9	110.4	112.0
65°	85.0	84.1	83.4	84.4	83.4	84.1	85.0	86.8	88.6	92.1	95.5
67.5°	70.3	69.8	69.8	69.5	69.8	69.8	70.3	71.3	72.4	74.4	77.5
70°	62.7	62.0	62.0	61.5	62.0	62.0	62.7	62.7	63.8	64.7	66.9
72.5°	54.9	54.2	54.4	54.1	54.4	54.2	54.9	55.0	56.1	56.5	57.5
75°	40.6	39.5	39.5	39.7	39.5	39.5	40.6	41.9	43.1	45.1	45.5
77.5°	30.3	30.1	30.3	30.0	30.3	30.1	30.3	30.3	30.5	31.5	32.2
80°	24.8	24.5	24.3	25.0	24.3	24.5	24.8	24.8	25.0	25.2	25.4
82.5°	19.2	19.2	19.1	20.0	19.1	19.2	19.2	19.6	19.6	19.5	19.7
85°	11.6	11.1	11.6	11.1	11.6	11.1	11.6	11.4	11.6	11.4	11.6
87.5°	8.0	8.1	7.7	7.9	7.7	8.1	8.0	7.5	7.5	7.6	7.4
90°	19.8	20.7	19.8	19.8	19.8	20.7	19.8	18.9	18.9	17.9	17.0
92.5°	80.8	75.7	72.5	72.5	72.5	75.7	80.8	91.8	110.7	139.1	184.8
95°	287.9	258.7	241.9	229.6	241.9	258.7	287.9	334.0	425.3	551.4	697.2
97.5°	718.1	661.5	633.3	613.7	633.3	661.5	718.1	785.7	883.9	975.9	1030.2
100°	956.0	898.6	870.3	862.9	870.3	898.6	956.0	1037.8	1107.5	1153.6	1134.8
102.5°	1157.0	1115.4	1085.7	1079.7	1085.7	1115.4	1157.0	1207.2	1236.2	1222.9	1129.5
105°	1350.3	1342.7	1329.6	1323.9	1329.6	1342.7	1350.3	1348.4	1309.8	1216.6	1053.9
107.5°	1381.3	1402.8	1412.2	1414.7	1412.2	1402.8	1381.3	1334.8	1250.9	1119.7	946.4
110°	1351.2	1390.7	1407.7	1416.2	1407.7	1390.7	1351.2	1284.4	1180.9	1044.4	881.7



TEST NUMBER: P332885-830

CATALOG NUMBER: S124RDIP-S350D1035U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1286.5	1334.3	1358.0	1371.7	1358.0	1334.3	1286.5	1210.6	1107.1	978.2	834.2
115°	1177.1	1233.6	1263.7	1271.2	1263.7	1233.6	1177.1	1102.8	1012.5	902.4	786.6
117.5°	1085.7	1133.1	1163.6	1169.4	1163.6	1133.1	1085.7	1022.3	945.7	859.1	763.3
120°	1035.9	1077.4	1101.8	1112.2	1101.8	1077.4	1035.9	982.3	915.6	840.3	752.7
122.5°	1000.6	1035.9	1056.7	1067.1	1056.7	1035.9	1000.6	955.3	896.7	828.2	743.8
125°	963.6	990.8	1008.7	1014.4	1008.7	990.8	963.6	925.9	874.1	809.2	728.3
127.5°	938.5	962.8	977.8	983.4	977.8	962.8	938.5	900.7	851.6	786.8	709.5
130°	921.1	944.7	959.8	965.4	959.8	944.7	921.1	882.6	832.7	768.7	694.5
132.5°	898.6	925.1	939.4	945.1	939.4	925.1	898.6	860.8	810.9	748.5	678.6
135°	860.1	886.4	901.4	907.1	901.4	886.4	860.1	822.4	775.3	717.9	656.8
137.5°	814.8	840.8	853.3	860.1	853.3	840.8	814.8	779.7	737.2	688.8	637.1
140°	784.8	805.5	818.6	826.1	818.6	805.5	784.8	751.8	712.3	670.0	625.8
142.5°	753.8	773.1	784.8	790.0	784.8	773.1	753.8	724.7	690.5	654.1	615.2
145°	710.4	726.4	735.8	740.6	735.8	726.4	710.4	686.9	660.5	632.4	600.3
147.5°	674.1	687.9	695.0	696.6	695.0	687.9	674.1	656.8	636.1	613.5	588.1
150°	653.0	665.2	670.9	671.8	670.9	665.2	653.0	638.0	621.0	602.2	580.6
152.5°	635.0	644.9	648.3	649.2	648.3	644.9	635.0	622.2	608.2	590.9	572.3
155°	609.7	617.3	620.1	620.1	620.1	617.3	609.7	600.3	589.0	575.0	559.9
157.5°	587.1	592.8	594.5	594.5	594.5	592.8	587.1	580.0	571.0	559.1	546.5
160°	572.1	577.8	578.7	578.7	578.7	577.8	572.1	566.5	558.9	548.6	538.2
162.5°	557.8	563.5	564.4	563.6	564.4	563.5	557.8	553.6	546.9	538.8	529.9
165°	539.1	542.9	542.0	541.0	542.0	542.9	539.1	535.4	530.7	524.1	518.5
167.5°	521.7	524.1	524.0	523.2	524.0	524.1	521.7	519.8	517.0	511.7	507.4
170°	511.9	512.8	511.9	511.9	511.9	512.8	511.9	510.0	507.2	503.4	500.6
172.5°	502.1	503.0	502.1	500.6	502.1	503.0	502.1	501.0	498.9	496.6	494.6
175°	489.3	491.2	489.3	487.4	489.3	491.2	489.3	489.3	489.3	487.4	486.4
177.5°	481.9	482.7	481.2	479.7	481.2	482.7	481.9	482.7	481.9	481.9	481.2
180°	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9



TEST NUMBER: P332885-830

CATALOG NUMBER: S124RDIP-S350D1035U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6
2.5°	529.5	530.8	533.7	536.9	539.6	541.9	543.7	546.2	548.5	551.7	554.7
5°	497.5	500.6	505.0	510.4	517.1	521.5	527.1	532.1	539.1	546.3	553.2
7.5°	469.3	472.7	479.3	486.6	494.6	501.9	508.5	517.2	526.6	537.1	548.7
10°	451.0	454.9	462.6	471.1	480.5	487.7	496.5	506.8	517.6	530.3	544.5
12.5°	434.6	438.3	447.6	456.3	466.0	473.9	484.3	494.6	509.0	522.7	538.9
15°	402.7	412.3	422.9	433.2	444.8	454.4	466.8	477.6	491.2	510.6	529.1
17.5°	367.1	377.3	390.7	406.5	422.1	433.9	446.6	459.9	476.1	495.9	517.3
20°	346.4	354.7	369.4	387.0	405.1	421.6	433.2	447.9	464.7	486.1	508.1
22.5°	330.9	337.9	349.4	367.0	386.5	405.7	420.6	435.1	453.6	475.0	499.1
25°	307.6	315.2	325.3	337.2	359.6	379.8	399.3	416.0	435.6	457.0	483.8
27.5°	288.2	294.8	304.1	316.6	331.6	353.9	377.5	396.5	416.7	439.7	466.5
30°	276.8	282.2	289.7	302.5	316.8	336.9	360.7	383.0	403.3	427.2	455.1
32.5°	264.9	270.6	278.0	288.0	303.4	320.3	344.1	368.5	390.1	414.5	441.9
35°	248.9	253.4	260.1	270.3	284.2	298.9	320.1	345.3	368.1	394.2	420.3
37.5°	232.8	238.1	243.4	252.5	263.8	279.7	297.0	322.8	348.0	371.8	397.3
40°	223.8	226.9	232.6	240.1	252.0	266.1	282.4	307.6	332.8	356.5	382.1
42.5°	213.6	217.1	222.0	229.3	240.1	253.8	269.8	291.5	317.8	340.7	364.1
45°	199.4	201.4	206.3	212.5	221.5	235.4	250.1	269.5	294.3	316.1	336.6
47.5°	185.1	186.9	189.9	195.7	205.7	216.8	230.5	248.0	269.7	291.5	308.9
50°	175.3	176.9	179.8	185.1	194.1	205.0	218.6	234.2	253.6	274.6	289.1
52.5°	165.5	166.4	169.1	175.1	182.7	193.4	205.6	220.0	238.1	255.5	270.2
55°	149.9	151.9	153.7	158.2	165.3	175.6	186.5	200.1	214.1	228.8	241.4
57.5°	133.7	135.8	138.4	142.3	148.0	157.5	167.3	178.3	190.4	202.6	213.1
60°	122.9	124.9	127.1	131.6	136.8	144.3	155.0	164.7	173.8	184.9	195.4
62.5°	112.4	114.4	117.0	120.6	125.5	132.7	141.7	150.0	159.5	169.2	177.0
65°	96.8	98.4	100.4	103.8	108.4	114.9	122.2	128.8	137.2	144.3	151.5
67.5°	79.7	82.8	85.3	88.0	92.0	98.0	103.4	109.6	115.4	120.6	127.1
70°	68.5	71.8	74.3	77.2	81.0	86.1	91.2	95.5	100.2	105.3	111.1
72.5°	59.0	61.6	63.6	66.6	70.1	74.8	79.6	83.1	87.0	90.5	96.1
75°	46.7	47.7	49.1	51.6	54.7	58.2	62.0	65.1	67.4	70.5	74.5
77.5°	33.5	35.6	36.6	38.3	40.5	42.7	45.2	47.9	50.0	51.1	54.2
80°	25.6	26.6	27.4	29.9	31.2	33.5	35.3	37.7	38.5	39.7	42.6
82.5°	20.0	20.5	21.0	21.7	22.5	24.7	26.5	28.1	28.9	29.3	31.6
85°	11.6	11.8	12.1	12.3	12.5	12.5	13.4	14.5	16.0	16.0	16.8
87.5°	7.2	7.4	7.1	6.6	6.9	5.7	5.9	5.7	6.1	6.1	6.2
90°	16.0	17.0	15.1	13.2	13.2	7.5	7.5	6.6	5.7	2.8	0.9
92.5°	248.6	298.5	261.2	190.1	117.1	69.3	49.7	35.9	24.5	15.6	10.7
95°	788.5	766.9	578.7	353.8	199.4	117.6	78.1	55.5	43.3	33.8	31.0
97.5°	990.6	807.7	541.6	318.0	190.7	127.6	94.4	75.1	63.8	55.7	55.7
100°	997.4	756.5	491.2	299.3	192.9	137.4	107.3	89.4	78.1	71.5	71.5
102.5°	940.9	692.6	457.3	294.0	200.4	150.1	121.6	104.4	93.9	88.0	86.5
105°	838.4	617.3	428.1	296.4	218.3	173.1	145.8	128.9	117.6	112.9	110.1
107.5°	755.5	575.1	422.8	310.3	239.2	197.7	170.9	154.7	142.6	138.0	136.1
110°	714.2	560.8	424.3	320.8	255.0	213.6	188.2	171.3	159.9	155.2	153.4



TEST NUMBER: P332885-830

CATALOG NUMBER: S124RDIP-S350D1035U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	690.9	554.0	428.9	332.2	270.0	230.2	204.7	187.8	177.3	171.8	169.9
115°	669.0	550.4	437.5	350.1	293.6	255.9	230.5	212.6	203.2	196.6	193.9
117.5°	659.2	549.5	446.8	368.3	316.3	280.6	254.2	237.5	227.2	221.3	218.7
120°	653.9	549.5	453.6	381.1	332.2	296.4	270.0	254.0	243.7	237.1	235.3
122.5°	647.9	548.7	460.3	393.1	347.2	311.4	285.9	268.3	258.7	252.1	250.3
125°	638.0	547.6	470.5	411.2	367.9	334.0	307.6	289.8	279.5	273.8	270.0
127.5°	624.6	545.5	478.5	426.8	387.1	354.4	327.8	309.2	297.4	290.6	287.6
130°	616.3	544.8	484.6	436.6	399.9	367.9	340.6	322.7	308.6	301.1	297.4
132.5°	608.8	544.0	489.8	446.4	410.5	378.4	352.7	333.3	319.9	310.1	307.1
135°	597.5	542.9	497.8	459.2	425.3	394.3	369.8	350.1	334.0	324.6	320.8
137.5°	587.7	542.7	502.5	468.3	436.6	407.6	384.3	363.7	348.6	338.2	334.6
140°	582.5	542.0	506.2	474.2	444.1	415.9	393.3	373.5	357.6	347.2	344.4
142.5°	578.0	542.0	509.3	478.7	450.9	423.4	401.6	382.6	367.3	357.8	355.0
145°	570.2	540.1	511.0	483.6	458.3	433.8	413.1	395.2	382.0	372.6	369.8
147.5°	563.3	536.7	511.9	488.0	465.8	442.8	424.1	409.3	395.8	387.5	386.5
150°	558.0	534.4	511.9	490.2	469.6	448.8	430.9	416.9	405.6	398.0	397.1
152.5°	552.0	530.7	510.4	491.7	472.6	454.1	437.7	425.1	414.6	407.1	406.9
155°	542.9	525.1	508.1	493.0	477.0	461.1	447.0	436.6	427.2	421.5	420.6
157.5°	533.7	519.2	505.7	493.0	480.2	466.7	455.6	446.6	439.2	433.9	433.9
160°	527.0	514.7	503.4	493.0	481.7	470.5	460.1	452.6	446.0	442.2	442.2
162.5°	520.9	510.2	501.1	493.0	483.2	472.8	464.7	457.9	452.0	449.0	449.8
165°	511.0	503.4	496.8	491.2	483.6	475.1	469.6	464.9	460.1	458.3	458.3
167.5°	501.9	496.6	492.3	488.9	483.4	477.2	473.0	470.3	466.7	465.8	466.7
170°	495.9	492.1	489.3	487.4	482.7	478.0	475.1	473.3	470.5	469.6	470.5
172.5°	490.6	487.6	486.3	485.9	481.9	478.7	476.6	475.5	473.4	473.3	474.2
175°	484.6	482.7	482.7	483.6	480.8	478.9	478.9	478.0	477.0	477.0	478.0
177.5°	480.4	479.7	479.7	481.2	479.7	478.9	478.9	478.9	478.2	478.9	479.7
180°	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9



TEST NUMBER: P332885-830

CATALOG NUMBER: S124RDIP-S350D1035U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6	553.6
2.5°	557.0	558.6	560.4	563.8	566.7	568.0	570.4	572.2	571.7	574.2	578.4
5°	559.2	565.2	572.2	579.3	587.3	594.0	599.4	604.7	609.0	614.1	621.7
7.5°	558.8	569.6	581.3	594.0	607.2	618.6	629.1	639.8	649.3	659.7	673.4
10°	557.4	571.7	586.3	602.9	619.7	635.6	649.8	663.2	675.9	689.5	706.7
12.5°	555.8	572.2	589.7	609.9	630.7	649.8	666.6	685.9	701.8	719.3	739.1
15°	548.7	570.8	594.7	620.8	645.8	671.5	694.4	718.0	740.2	761.1	786.1
17.5°	540.6	566.1	594.3	625.1	655.1	686.3	713.6	743.4	765.9	794.1	817.3
20°	534.0	561.5	591.5	626.1	660.3	694.8	725.0	755.4	780.7	809.1	838.5
22.5°	526.0	556.1	588.7	624.5	660.3	698.0	731.4	761.6	793.1	824.9	855.3
25°	513.0	544.3	578.9	618.1	659.2	697.8	733.5	770.9	804.8	839.4	866.7
27.5°	497.2	530.0	566.4	606.9	649.0	688.5	730.6	770.5	804.6	837.9	861.7
30°	484.5	519.1	554.1	595.1	638.9	681.3	726.3	766.3	802.2	832.1	845.5
32.5°	471.5	504.3	540.4	581.9	626.7	672.3	717.0	757.9	791.1	809.0	809.4
35°	448.8	479.6	517.1	557.9	603.9	653.4	698.6	738.8	759.1	760.6	738.8
37.5°	424.1	452.3	487.7	528.6	578.9	628.2	674.4	701.2	707.9	685.2	644.9
40°	406.4	432.5	466.7	508.6	558.6	609.4	651.6	671.2	664.1	627.3	582.2
42.5°	387.9	412.2	445.1	486.4	536.6	588.1	624.0	634.4	615.6	573.1	520.3
45°	357.6	379.8	412.5	454.2	502.4	550.5	577.8	572.4	540.9	490.5	431.4
47.5°	326.0	347.6	376.9	415.5	464.9	506.4	524.8	508.7	463.9	408.5	360.4
50°	305.2	327.3	354.2	391.1	436.1	476.3	488.0	463.5	413.8	360.5	316.3
52.5°	284.6	303.5	330.0	365.5	408.6	442.5	448.8	420.6	369.2	321.4	282.2
55°	253.4	270.6	292.8	326.3	363.6	392.4	389.0	352.7	306.0	265.2	234.4
57.5°	223.2	236.1	256.7	288.1	320.8	340.2	327.9	296.9	253.4	220.0	194.1
60°	203.2	215.3	234.4	261.8	290.7	301.6	291.3	257.7	223.3	192.7	170.9
62.5°	184.3	194.9	211.4	236.9	260.1	266.6	255.6	226.2	195.3	169.2	151.1
65°	156.8	166.6	180.7	198.8	214.8	217.9	210.8	180.7	157.3	135.4	122.9
67.5°	131.9	138.3	149.3	164.9	173.4	175.2	161.5	142.5	121.9	108.5	99.1
70°	115.1	119.6	129.8	138.3	145.2	145.4	132.7	117.5	101.7	90.8	83.9
72.5°	98.9	103.1	110.9	116.7	122.1	120.3	108.7	96.7	83.9	75.6	70.5
75°	76.3	80.1	84.1	86.8	86.8	84.5	76.1	67.1	59.8	54.9	53.3
77.5°	55.4	58.5	59.9	59.5	58.7	55.2	49.9	44.0	41.4	39.1	37.9
80°	43.5	44.9	45.2	44.2	42.8	38.8	35.3	32.8	30.3	29.4	29.0
82.5°	32.2	33.5	32.2	32.6	29.6	26.3	24.3	23.5	22.5	22.1	21.7
85°	17.2	17.0	16.5	15.4	13.4	12.9	12.7	12.5	12.1	12.3	11.8
87.5°	6.4	6.5	5.9	5.9	5.9	6.7	6.9	7.3	7.6	7.3	7.8
90°	2.8	5.7	6.6	7.5	7.5	13.2	13.2	15.1	17.0	16.0	17.0
92.5°	15.6	24.5	35.9	49.7	69.3	117.1	190.1	261.2	298.5	248.6	184.8
95°	33.8	43.3	55.5	78.1	117.6	199.4	353.8	578.7	766.9	788.5	697.2
97.5°	55.7	63.8	75.1	94.4	127.6	190.7	318.0	541.6	807.7	990.6	1030.2
100°	71.5	78.1	89.4	107.3	137.4	192.9	299.3	491.2	756.5	997.4	1134.8
102.5°	88.0	93.9	104.4	121.6	150.1	200.4	294.0	457.3	692.6	940.9	1129.5
105°	112.9	117.6	128.9	145.8	173.1	218.3	296.4	428.1	617.3	838.4	1053.9
107.5°	138.0	142.6	154.7	170.9	197.7	239.2	310.3	422.8	575.1	755.5	946.4
110°	155.2	159.9	171.3	188.2	213.6	255.0	320.8	424.3	560.8	714.2	881.7



TEST NUMBER: P332885-830

CATALOG NUMBER: S124RDIP-S350D1035U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	171.8	177.3	187.8	204.7	230.2	270.0	332.2	428.9	554.0	690.9	834.2
115°	196.6	203.2	212.6	230.5	255.9	293.6	350.1	437.5	550.4	669.0	786.6
117.5°	221.3	227.2	237.5	254.2	280.6	316.3	368.3	446.8	549.5	659.2	763.3
120°	237.1	243.7	254.0	270.0	296.4	332.2	381.1	453.6	549.5	653.9	752.7
122.5°	252.1	258.7	268.3	285.9	311.4	347.2	393.1	460.3	548.7	647.9	743.8
125°	273.8	279.5	289.8	307.6	334.0	367.9	411.2	470.5	547.6	638.0	728.3
127.5°	290.6	297.4	309.2	327.8	354.4	387.1	426.8	478.5	545.5	624.6	709.5
130°	301.1	308.6	322.7	340.6	367.9	399.9	436.6	484.6	544.8	616.3	694.5
132.5°	310.1	319.9	333.3	352.7	378.4	410.5	446.4	489.8	544.0	608.8	678.6
135°	324.6	334.0	350.1	369.8	394.3	425.3	459.2	497.8	542.9	597.5	656.8
137.5°	338.2	348.6	363.7	384.3	407.6	436.6	468.3	502.5	542.7	587.7	637.1
140°	347.2	357.6	373.5	393.3	415.9	444.1	474.2	506.2	542.0	582.5	625.8
142.5°	357.8	367.3	382.6	401.6	423.4	450.9	478.7	509.3	542.0	578.0	615.2
145°	372.6	382.0	395.2	413.1	433.8	458.3	483.6	511.0	540.1	570.2	600.3
147.5°	387.5	395.8	409.3	424.1	442.8	465.8	488.0	511.9	536.7	563.3	588.1
150°	398.0	405.6	416.9	430.9	448.8	469.6	490.2	511.9	534.4	558.0	580.6
152.5°	407.1	414.6	425.1	437.7	454.1	472.6	491.7	510.4	530.7	552.0	572.3
155°	421.5	427.2	436.6	447.0	461.1	477.0	493.0	508.1	525.1	542.9	559.9
157.5°	433.9	439.2	446.6	455.6	466.7	480.2	493.0	505.7	519.2	533.7	546.5
160°	442.2	446.0	452.6	460.1	470.5	481.7	493.0	503.4	514.7	527.0	538.2
162.5°	449.0	452.0	457.9	464.7	472.8	483.2	493.0	501.1	510.2	520.9	529.9
165°	458.3	460.1	464.9	469.6	475.1	483.6	491.2	496.8	503.4	511.0	518.5
167.5°	465.8	466.7	470.3	473.0	477.2	483.4	488.9	492.3	496.6	501.9	507.4
170°	469.6	470.5	473.3	475.1	478.0	482.7	487.4	489.3	492.1	495.9	500.6
172.5°	473.3	473.4	475.5	476.6	478.7	481.9	485.9	486.3	487.6	490.6	494.6
175°	477.0	477.0	478.0	478.9	478.9	480.8	483.6	482.7	482.7	484.6	486.4
177.5°	478.9	478.2	478.9	478.9	478.9	479.7	481.2	479.7	479.7	480.4	481.2
180°	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	553.6	553.6	553.6	553.6	553.6	553.6	553.6
2.5°	580.8	581.5	582.0	583.8	584.0	585.6	584.0
5°	628.9	632.0	636.9	641.8	642.2	645.4	639.8
7.5°	682.7	689.9	694.5	702.4	705.5	707.5	704.3
10°	719.8	726.5	738.4	744.1	750.0	750.8	748.2
12.5°	755.7	766.3	775.6	786.6	786.4	794.2	791.4
15°	803.5	814.5	827.4	839.6	844.0	844.0	847.6
17.5°	837.5	857.6	871.0	880.6	891.2	893.0	891.7
20°	860.6	882.2	896.5	909.0	916.2	918.1	918.1
22.5°	877.7	896.2	910.1	921.3	927.2	929.5	928.9
25°	889.6	905.4	913.9	917.3	918.8	918.4	914.2
27.5°	873.4	872.6	867.3	857.1	849.3	844.6	839.2
30°	842.4	830.7	817.3	802.6	783.6	769.1	764.7
32.5°	796.1	770.1	747.3	722.8	702.5	688.0	681.8
35°	706.7	665.4	631.7	602.3	580.9	567.5	563.0
37.5°	600.6	560.6	519.0	490.4	472.6	459.1	454.1
40°	533.1	489.7	453.3	426.5	408.2	395.0	394.8
42.5°	471.6	430.0	395.8	376.5	356.8	348.1	348.1
45°	386.2	352.9	323.9	308.7	296.9	289.7	287.8
47.5°	319.7	292.2	272.9	260.8	251.2	246.7	243.6
50°	282.4	258.4	242.9	232.4	227.1	221.3	220.8
52.5°	251.4	231.9	219.9	211.4	204.6	201.1	201.2
55°	211.2	195.9	187.4	180.9	175.6	172.9	171.7
57.5°	178.0	166.5	160.2	154.3	152.0	150.0	149.4
60°	157.3	149.5	143.6	138.9	135.6	135.0	134.7
62.5°	140.2	132.0	128.0	124.3	121.9	120.8	120.5
65°	115.6	109.5	105.9	103.0	102.2	100.6	100.4
67.5°	93.1	89.5	87.2	85.2	84.0	83.9	83.9
70°	79.5	77.4	75.4	74.3	73.6	73.1	73.1
72.5°	67.7	66.2	64.5	63.9	63.8	63.3	63.2
75°	51.6	50.0	50.2	49.1	48.2	47.0	46.4
77.5°	36.6	35.4	35.2	35.1	34.3	34.2	34.5
80°	28.4	27.2	27.0	27.2	27.0	26.3	26.3
82.5°	21.6	20.6	20.4	20.3	20.1	20.3	19.9
85°	11.6	11.1	11.1	11.1	11.6	11.4	11.1
87.5°	7.6	7.7	7.8	7.9	8.1	7.7	7.9
90°	17.9	18.9	18.9	19.8	20.7	19.8	19.8
92.5°	139.1	110.7	91.8	80.8	75.7	72.5	72.5
95°	551.4	425.3	334.0	287.9	258.7	241.9	229.6
97.5°	975.9	883.9	785.7	718.1	661.5	633.3	613.7
100°	1153.6	1107.5	1037.8	956.0	898.6	870.3	862.9
102.5°	1222.9	1236.2	1207.2	1157.0	1115.4	1085.7	1079.7
105°	1216.6	1309.8	1348.4	1350.3	1342.7	1329.6	1323.9
107.5°	1119.7	1250.9	1334.8	1381.3	1402.8	1412.2	1414.7
110°	1044.4	1180.9	1284.4	1351.2	1390.7	1407.7	1416.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	978.2	1107.1	1210.6	1286.5	1334.3	1358.0	1371.7
115°	902.4	1012.5	1102.8	1177.1	1233.6	1263.7	1271.2
117.5°	859.1	945.7	1022.3	1085.7	1133.1	1163.6	1169.4
120°	840.3	915.6	982.3	1035.9	1077.4	1101.8	1112.2
122.5°	828.2	896.7	955.3	1000.6	1035.9	1056.7	1067.1
125°	809.2	874.1	925.9	963.6	990.8	1008.7	1014.4
127.5°	786.8	851.6	900.7	938.5	962.8	977.8	983.4
130°	768.7	832.7	882.6	921.1	944.7	959.8	965.4
132.5°	748.5	810.9	860.8	898.6	925.1	939.4	945.1
135°	717.9	775.3	822.4	860.1	886.4	901.4	907.1
137.5°	688.8	737.2	779.7	814.8	840.8	853.3	860.1
140°	670.0	712.3	751.8	784.8	805.5	818.6	826.1
142.5°	654.1	690.5	724.7	753.8	773.1	784.8	790.0
145°	632.4	660.5	686.9	710.4	726.4	735.8	740.6
147.5°	613.5	636.1	656.8	674.1	687.9	695.0	696.6
150°	602.2	621.0	638.0	653.0	665.2	670.9	671.8
152.5°	590.9	608.2	622.2	635.0	644.9	648.3	649.2
155°	575.0	589.0	600.3	609.7	617.3	620.1	620.1
157.5°	559.1	571.0	580.0	587.1	592.8	594.5	594.5
160°	548.6	558.9	566.5	572.1	577.8	578.7	578.7
162.5°	538.8	546.9	553.6	557.8	563.5	564.4	563.6
165°	524.1	530.7	535.4	539.1	542.9	542.0	541.0
167.5°	511.7	517.0	519.8	521.7	524.1	524.0	523.2
170°	503.4	507.2	510.0	511.9	512.8	511.9	511.9
172.5°	496.6	498.9	501.0	502.1	503.0	502.1	500.6
175°	487.4	489.3	489.3	489.3	491.2	489.3	487.4
177.5°	481.9	481.9	482.7	481.9	482.7	481.2	479.7
180°	478.9	478.9	478.9	478.9	478.9	478.9	478.9

(END OF REPORT)