

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: P332885-930

Luminaire Tested: **S124RDIP-S350D1035U930-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332885-930
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-S350D1035U930-4F0-1E-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: 4225.9 lumens
Efficiency: N/A
Efficacy: 113.3 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

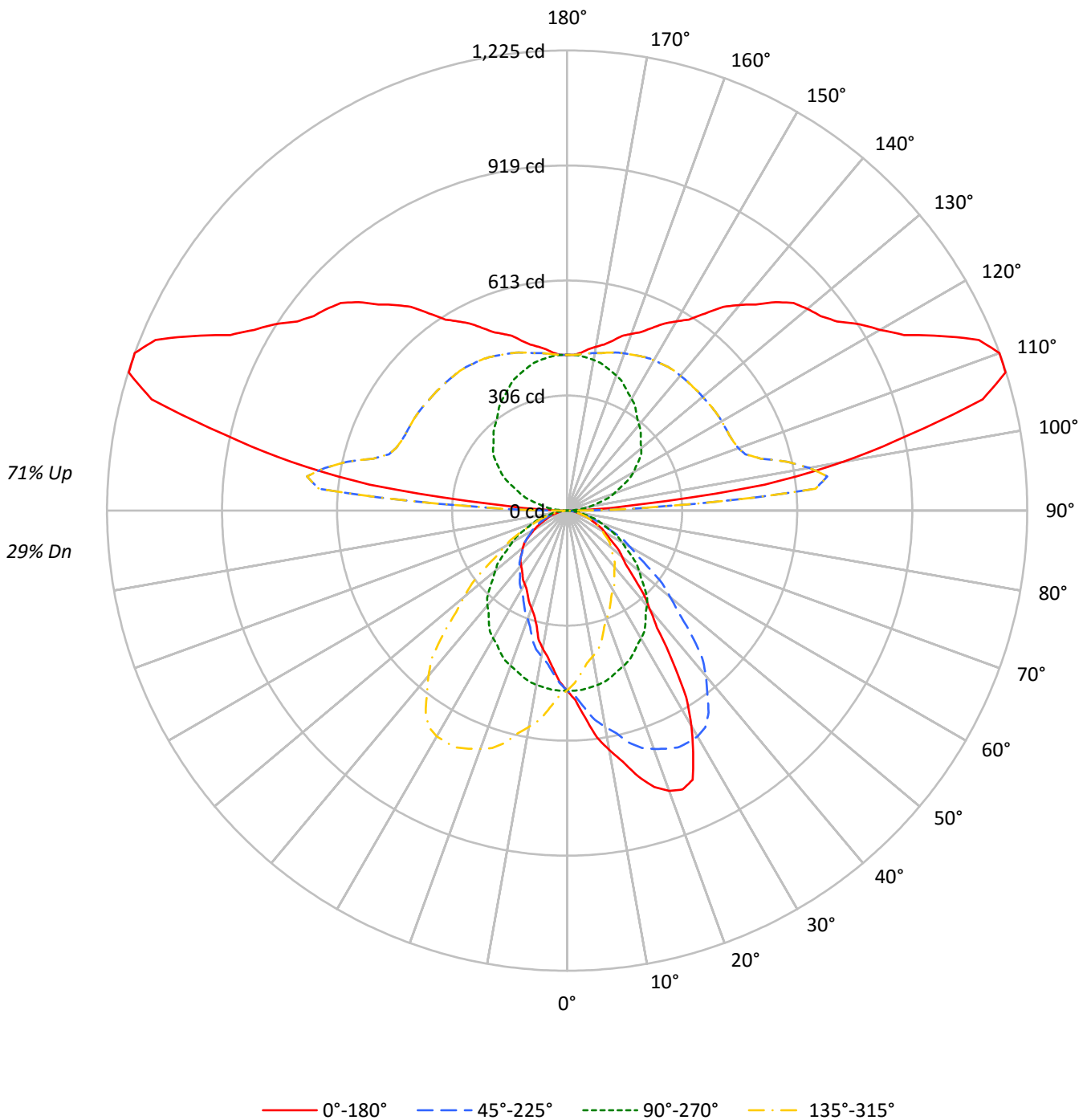
Input Watts (W): 37.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3866	3866	3866	3866
5°	4485	3878	3428	3878
10°	5305	3861	3059	3861
15°	6128	3825	2629	3825
20°	6823	3776	2377	3776
25°	7044	3728	2207	3728
30°	6166	3669	2105	3669
35°	4800	3582	2042	3582
40°	3599	3483	2009	3483
45°	2842	3323	1991	3323
50°	2399	3141	1934	3141
55°	2090	2939	1830	2939
60°	1881	2729	1621	2729
65°	1658	2502	1394	2502
70°	1494	2268	1256	2268
75°	1251	2009	1070	2009
80°	1055	1715	1004	1715
85°	889	1343	889	1343



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.4	1.1
10°-20°	140.0	3.3
20°-30°	218.9	5.2
30°-40°	243.4	5.8
40°-50°	215.9	5.1
50°-60°	168.3	4.0
60°-70°	110.2	2.6
70°-80°	54.2	1.3
80°-90°	15.6	0.4
90°-100°	299.2	7.1
100°-110°	622.8	14.7
110°-120°	557.8	13.2
120°-130°	469.2	11.1
130°-140°	391.2	9.3
140°-150°	298.9	7.1
150°-160°	210.1	5.0
160°-170°	123.6	2.9
170°-180°	40.2	1.0
0°-30°	405.3	9.6
0°-40°	648.7	15.4
0°-60°	1032.9	24.4
0°-90°	1212.9	28.7
90°-120°	1479.8	35.0
90°-150°	2639.2	62.5
90°-180°	3013.0	71.3
0°-180°	4225.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	479	479	479	479	479	
5°	553	478	423	478	553	56
15°	733	458	314	458	733	208
25°	791	418	248	418	791	351
35°	487	364	207	364	487	305
45°	249	291	174	291	249	197
55°	148	209	130	209	148	135
65°	87	131	73	131	87	87
75°	40	64	34	64	40	44
85°	10	14	10	14	10	11
90°	17	1	17	1	17	14
95°	199	27	199	27	199	308
105°	1145	95	1145	95	1145	1132
115°	1100	168	1100	168	1100	1092
125°	877	234	877	234	877	797
135°	785	278	785	278	785	606
145°	641	320	641	320	641	406
155°	536	364	536	364	536	250
165°	468	396	468	396	468	134
175°	422	413	422	413	422	41
180°	414	414	414	414	414	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9
2.5°	505.2	506.5	505.2	505.0	503.4	503.0	502.4	500.3	496.7	494.5	495.0
5°	553.4	558.2	555.5	555.1	550.9	546.7	544.0	537.8	531.2	526.8	523.1
7.5°	609.2	612.0	610.3	607.6	600.7	596.8	590.5	582.4	570.6	561.7	553.4
10°	647.2	649.5	648.7	643.7	638.7	628.4	622.6	611.3	596.4	584.7	573.6
12.5°	684.5	687.0	680.2	680.4	670.9	662.8	653.7	639.4	622.2	607.1	593.3
15°	733.2	730.1	730.1	726.3	715.7	704.5	695.0	680.0	658.4	640.3	621.1
17.5°	771.4	772.4	770.9	761.7	753.4	741.8	724.5	706.9	686.9	662.5	643.0
20°	794.2	794.2	792.5	786.3	775.5	763.1	744.4	725.3	699.9	675.3	653.4
22.5°	803.5	804.0	802.0	797.0	787.3	775.2	759.2	739.8	713.5	686.0	658.8
25°	790.8	794.4	794.8	793.4	790.5	783.2	769.5	749.7	726.1	696.2	666.8
27.5°	725.9	730.6	734.7	741.4	750.2	754.8	755.5	745.3	724.8	696.0	666.5
30°	661.5	665.3	677.8	694.2	706.9	718.5	728.6	731.3	719.7	693.9	662.8
32.5°	589.8	595.1	607.6	625.3	646.5	666.1	688.6	700.1	699.8	684.3	655.6
35°	487.0	490.9	502.5	521.0	546.4	575.6	611.3	639.0	657.9	656.6	639.0
37.5°	392.8	397.1	408.8	424.2	448.9	484.9	519.5	557.8	592.7	612.4	606.5
40°	341.5	341.7	353.1	368.9	392.1	423.5	461.1	503.6	542.6	574.5	580.6
42.5°	301.1	301.1	308.7	325.7	342.3	371.9	407.9	450.0	495.7	532.5	548.8
45°	248.9	250.6	256.8	267.0	280.1	305.2	334.0	373.2	424.3	467.9	495.1
47.5°	210.8	213.4	217.3	225.6	236.0	252.7	276.5	311.8	353.4	401.3	440.0
50°	191.0	191.4	196.4	201.1	210.1	223.5	244.3	273.6	311.9	357.9	401.0
52.5°	174.1	174.0	177.0	182.9	190.2	200.6	217.4	244.1	278.0	319.4	363.8
55°	148.5	149.5	151.9	156.5	162.1	169.4	182.7	202.8	229.4	264.7	305.1
57.5°	129.2	129.7	131.5	133.5	138.6	144.0	153.9	167.9	190.3	219.2	256.8
60°	116.5	116.8	117.3	120.2	124.3	129.3	136.1	147.8	166.7	193.1	222.9
62.5°	104.2	104.5	105.4	107.5	110.7	114.1	121.2	130.7	146.3	168.9	195.7
65°	86.8	87.0	88.4	89.1	91.6	94.7	100.0	106.3	117.2	136.1	156.3
67.5°	72.6	72.6	72.6	73.7	75.4	77.5	80.6	85.7	93.8	105.4	123.3
70°	63.3	63.3	63.7	64.2	65.2	66.9	68.7	72.6	78.5	88.0	101.7
72.5°	54.6	54.8	55.2	55.3	55.8	57.2	58.5	61.0	65.4	72.6	83.6
75°	40.1	40.7	41.7	42.5	43.5	43.2	44.6	46.1	47.5	51.7	58.0
77.5°	29.8	29.6	29.7	30.3	30.4	30.7	31.6	32.8	33.8	35.8	38.1
80°	22.7	22.7	23.3	23.6	23.3	23.6	24.5	25.1	25.4	26.3	28.4
82.5°	17.2	17.5	17.4	17.5	17.6	17.9	18.7	18.8	19.2	19.5	20.3
85°	9.6	9.9	10.0	9.6	9.6	9.6	10.0	10.2	10.6	10.4	10.8
87.5°	6.8	6.7	7.0	6.8	6.8	6.7	6.6	6.8	6.3	6.6	6.3
90°	17.1	17.1	17.9	17.1	16.3	16.3	15.5	14.7	13.9	14.7	13.0
92.5°	62.7	62.7	65.5	69.9	79.4	95.7	120.3	159.9	215.1	258.2	225.9
95°	198.6	209.2	223.8	249.1	288.9	367.9	477.0	603.1	682.1	663.3	500.6
97.5°	530.8	547.8	572.2	621.2	679.6	764.6	844.2	891.1	856.9	698.6	468.5
100°	746.4	752.8	777.3	827.0	897.7	958.0	997.8	981.6	862.7	654.4	424.9
102.5°	933.9	939.1	964.8	1000.8	1044.2	1069.3	1057.8	977.1	813.9	599.1	395.6
105°	1145.2	1150.1	1161.5	1168.0	1166.4	1132.9	1052.4	911.6	725.2	533.9	370.3
107.5°	1223.7	1221.6	1213.4	1194.8	1154.6	1082.1	968.6	818.6	653.5	497.5	365.7
110°	1225.0	1217.6	1203.0	1168.8	1111.0	1021.5	903.4	762.6	617.8	485.1	367.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1186.5	1174.7	1154.1	1112.8	1047.2	957.7	846.1	721.6	597.6	479.2	371.0
115°	1099.6	1093.1	1067.1	1018.2	953.9	875.8	780.6	680.4	578.7	476.1	378.5
117.5°	1011.5	1006.5	980.2	939.1	884.3	818.0	743.1	660.2	570.2	475.3	386.5
120°	962.1	953.1	932.0	896.1	849.7	792.0	726.8	651.1	565.7	475.3	392.3
122.5°	923.0	914.0	896.1	865.5	826.3	775.7	716.4	643.4	560.4	474.7	398.2
125°	877.4	872.5	857.0	833.5	800.9	756.1	699.9	630.0	551.9	473.7	407.0
127.5°	850.7	845.8	832.8	811.8	779.1	736.6	680.6	613.7	540.3	471.9	413.9
130°	835.1	830.2	817.2	796.8	763.4	720.3	665.0	600.7	533.1	471.2	419.1
132.5°	817.5	812.6	800.2	777.3	744.6	701.4	647.4	587.0	526.6	470.6	423.7
135°	784.6	779.8	766.7	744.0	711.3	670.7	621.0	568.1	516.8	469.6	430.6
137.5°	744.0	738.1	727.3	704.8	674.4	637.6	595.8	551.1	508.3	469.4	434.6
140°	714.6	708.1	696.8	678.8	650.3	616.1	579.5	541.3	503.9	468.8	437.9
142.5°	683.4	678.8	668.7	652.1	626.9	597.3	565.8	532.1	499.9	468.8	440.5
145°	640.6	636.5	628.4	614.5	594.2	571.4	547.0	519.3	493.3	467.2	442.0
147.5°	602.6	601.2	595.0	583.1	568.1	550.2	530.7	508.7	487.2	464.2	442.8
150°	581.1	580.3	575.4	564.8	551.9	537.2	520.9	502.2	482.7	462.3	442.8
152.5°	561.6	560.8	557.8	549.3	538.2	526.1	511.1	495.0	477.4	459.0	441.5
155°	536.4	536.4	533.9	527.4	519.3	509.5	497.3	484.3	469.6	454.2	439.5
157.5°	514.2	514.2	512.7	507.8	501.7	493.9	483.6	472.7	461.6	449.1	437.4
160°	500.6	500.6	499.8	494.9	490.0	483.5	474.5	465.5	455.8	445.2	435.5
162.5°	487.5	488.2	487.4	482.5	478.9	473.0	466.0	458.4	450.6	441.3	433.5
165°	468.0	468.8	469.6	466.4	463.1	459.0	453.4	448.5	442.0	435.5	429.7
167.5°	452.6	453.2	453.4	451.3	449.6	447.2	442.6	438.9	434.1	429.6	425.8
170°	442.8	442.8	443.6	442.8	441.2	438.7	435.5	433.0	428.9	425.7	423.2
172.5°	433.0	434.3	435.1	434.3	433.3	431.5	429.6	427.8	424.4	421.8	420.6
175°	421.6	423.2	424.9	423.2	423.2	423.2	421.6	420.8	419.1	417.5	417.5
177.5°	414.9	416.2	417.5	416.9	417.5	416.9	416.9	416.2	415.6	414.9	414.9
180°	414.3	414.3	414.3	414.3	414.3	414.3	414.3	414.3	414.3	414.3	414.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9
2.5°	493.4	491.3	490.2	487.7	484.8	483.2	481.8	479.8	477.2	474.4	472.5
5°	518.4	513.8	508.0	501.1	495.0	488.9	483.7	478.5	472.5	466.4	460.2
7.5°	544.1	535.1	525.2	513.8	502.8	492.7	483.4	474.6	464.6	455.5	447.4
10°	562.1	549.8	536.1	521.5	507.1	494.6	482.2	471.0	458.7	447.7	438.4
12.5°	576.6	562.1	545.6	527.6	510.1	495.0	480.8	466.2	452.2	440.3	427.9
15°	600.6	580.8	558.6	537.0	514.5	493.7	474.7	457.7	441.6	424.9	413.1
17.5°	617.3	593.6	566.6	540.7	514.0	489.7	467.7	447.4	428.9	411.8	397.8
20°	627.1	601.0	571.1	541.6	511.7	485.7	461.9	439.5	420.4	401.9	387.4
22.5°	632.7	603.8	571.1	540.2	509.2	481.0	455.0	431.7	410.9	392.3	376.3
25°	634.5	603.6	570.2	534.7	500.8	470.8	443.8	418.5	395.3	376.8	359.9
27.5°	631.9	595.6	561.4	525.0	489.9	458.4	430.1	403.5	380.3	360.4	343.0
30°	628.3	589.3	552.6	514.8	479.3	449.0	419.1	393.6	369.5	348.9	331.3
32.5°	620.2	581.6	542.1	503.4	467.4	436.2	407.8	382.2	358.6	337.5	318.8
35°	604.3	565.2	522.4	482.6	447.3	414.8	388.2	363.5	341.0	318.4	298.7
37.5°	583.3	543.4	500.8	457.2	421.8	391.3	366.9	343.6	321.6	301.0	279.2
40°	563.6	527.2	483.1	439.9	403.7	374.1	351.6	330.5	308.3	287.9	266.1
42.5°	539.7	508.7	464.1	420.8	385.0	356.5	335.5	315.0	294.7	274.9	252.2
45°	499.8	476.2	434.6	392.9	356.8	328.6	309.3	291.1	273.5	254.5	233.1
47.5°	454.0	438.1	402.1	359.4	326.0	300.7	282.0	267.2	252.2	233.3	214.5
50°	422.2	412.0	377.2	338.3	306.4	283.1	264.0	250.1	237.5	219.4	202.6
52.5°	388.2	382.8	353.4	316.2	285.4	262.5	246.2	233.7	221.0	205.9	190.3
55°	336.5	339.4	314.5	282.3	253.3	234.1	219.2	208.8	198.0	185.2	173.1
57.5°	283.6	294.2	277.5	249.2	222.1	204.2	193.1	184.3	175.2	164.7	154.3
60°	252.0	260.9	251.4	226.5	202.8	186.2	175.8	169.0	160.0	150.3	142.4
62.5°	221.1	230.6	225.0	204.9	182.9	168.6	159.4	153.1	146.3	137.9	129.7
65°	182.4	188.5	185.8	171.9	156.3	144.1	135.7	131.0	124.8	118.7	111.4
67.5°	139.7	151.6	150.0	142.6	129.1	119.6	114.1	110.0	104.4	99.8	94.8
70°	114.8	125.8	125.6	119.6	112.3	103.5	99.5	96.1	91.1	86.7	82.6
72.5°	94.0	104.0	105.6	100.9	96.0	89.2	85.5	83.2	78.3	75.3	71.9
75°	65.8	73.1	75.1	75.1	72.7	69.3	66.0	64.4	61.0	58.3	56.3
77.5°	43.1	47.8	50.8	51.4	51.9	50.6	47.9	46.9	44.2	43.3	41.4
80°	30.5	33.6	37.0	38.2	39.1	38.8	37.7	36.9	34.3	33.3	32.6
82.5°	21.0	22.7	25.6	28.2	27.9	28.9	27.9	27.3	25.4	25.0	24.3
85°	11.0	11.2	11.6	13.3	14.3	14.7	14.8	14.5	13.9	13.9	12.6
87.5°	6.0	5.8	5.1	5.1	5.1	5.6	5.5	5.4	5.3	5.3	5.0
90°	11.4	11.4	6.5	6.5	5.7	4.9	2.4	0.8	2.4	4.9	5.7
92.5°	164.4	101.3	59.9	43.0	31.1	21.2	13.5	9.3	13.5	21.2	31.1
95°	306.1	172.5	101.7	67.6	48.0	37.4	29.3	26.8	29.3	37.4	48.0
97.5°	275.1	164.9	110.4	81.7	65.0	55.2	48.2	48.2	48.2	55.2	65.0
100°	258.9	166.9	118.9	92.8	77.3	67.6	61.9	61.9	61.9	67.6	77.3
102.5°	254.3	173.3	129.9	105.2	90.3	81.2	76.1	74.8	76.1	81.2	90.3
105°	256.4	188.8	149.8	126.1	111.5	101.7	97.7	95.2	97.7	101.7	111.5
107.5°	268.4	206.9	171.0	147.8	133.8	123.4	119.4	117.7	119.4	123.4	133.8
110°	277.5	220.5	184.7	162.8	148.1	138.4	134.3	132.6	134.3	138.4	148.1



TEST NUMBER: P332885-930

CATALOG NUMBER: S124RDIP-S350D1035U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	287.3	233.6	199.1	177.1	162.5	153.4	148.6	147.0	148.6	153.4	162.5
115°	302.8	254.0	221.4	199.4	183.9	175.8	170.1	167.7	170.1	175.8	183.9
117.5°	318.5	273.6	242.7	219.9	205.5	196.5	191.4	189.1	191.4	196.5	205.5
120°	329.6	287.3	256.4	233.6	219.7	210.8	205.1	203.5	205.1	210.8	219.7
122.5°	340.1	300.4	269.4	247.3	232.1	223.8	218.1	216.5	218.1	223.8	232.1
125°	355.7	318.2	288.9	266.1	250.7	241.7	236.8	233.6	236.8	241.7	250.7
127.5°	369.2	334.8	306.6	283.6	267.4	257.2	251.4	248.7	251.4	257.2	267.4
130°	377.6	345.9	318.2	294.6	279.2	266.9	260.5	257.2	260.5	266.9	279.2
132.5°	386.1	355.1	327.3	305.1	288.3	276.7	268.2	265.6	268.2	276.7	288.3
135°	397.2	367.9	341.0	319.8	302.8	288.9	280.8	277.5	280.8	288.9	302.8
137.5°	405.0	377.6	352.6	332.4	314.6	301.5	292.5	289.4	292.5	301.5	314.6
140°	410.2	384.2	359.8	340.2	323.1	309.3	300.4	297.9	300.4	309.3	323.1
142.5°	414.1	390.0	366.2	347.4	330.9	317.7	309.5	307.0	309.5	317.7	330.9
145°	418.3	396.4	375.2	357.3	341.9	330.4	322.3	319.8	322.3	330.4	341.9
147.5°	422.1	402.9	383.0	366.9	354.1	342.3	335.2	334.4	335.2	342.3	354.1
150°	424.0	406.2	388.2	372.8	360.6	350.8	344.3	343.5	344.3	350.8	360.6
152.5°	425.3	408.8	392.8	378.6	367.7	358.7	352.1	352.0	352.1	358.7	367.7
155°	426.5	412.6	398.8	386.6	377.6	369.5	364.6	363.8	364.6	369.5	377.6
157.5°	426.5	415.4	403.7	394.1	386.3	379.9	375.4	375.4	375.4	379.9	386.3
160°	426.5	416.7	407.0	398.0	391.5	385.8	382.5	382.5	382.5	385.8	391.5
162.5°	426.5	418.0	409.0	401.9	396.1	391.0	388.4	389.1	388.4	391.0	396.1
165°	424.9	418.3	411.0	406.2	402.1	398.0	396.4	396.4	396.4	398.0	402.1
167.5°	422.9	418.2	412.8	409.1	406.8	403.7	402.9	403.7	402.9	403.7	406.8
170°	421.6	417.5	413.4	411.0	409.4	407.0	406.2	407.0	406.2	407.0	409.4
172.5°	420.3	416.9	414.1	412.3	411.3	409.5	409.4	410.2	409.4	409.5	411.3
175°	418.3	415.9	414.3	414.3	413.4	412.6	412.6	413.4	412.6	412.6	413.4
177.5°	416.2	414.9	414.3	414.3	414.3	413.6	414.3	414.9	414.3	413.6	414.3
180°	414.3	414.3	414.3	414.3	414.3	414.3	414.3	414.3	414.3	414.3	414.3



TEST NUMBER: P332885-930

CATALOG NUMBER: S124RDIP-S350D1035U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9
2.5°	470.3	468.7	466.8	464.4	461.6	459.2	458.0	459.0	459.5	458.2	458.0
5°	455.9	451.1	447.3	441.5	436.8	433.0	430.3	429.1	429.5	426.4	425.7
7.5°	439.9	434.1	427.8	420.9	414.6	408.9	405.9	404.3	401.0	399.6	397.2
10°	429.5	421.8	415.6	407.5	400.1	393.5	390.1	387.4	384.2	382.6	379.4
12.5°	418.9	409.9	403.1	394.7	387.2	379.1	375.9	371.0	365.8	362.6	358.3
15°	403.8	393.1	384.7	374.7	365.8	356.6	348.3	339.0	335.6	328.2	324.0
17.5°	386.3	375.4	365.1	351.6	337.9	326.4	317.6	308.7	303.4	298.7	296.5
20°	374.7	364.7	350.4	334.8	319.5	306.8	299.6	293.8	288.0	284.8	282.5
22.5°	363.8	350.9	334.4	317.5	302.2	292.3	286.3	280.3	275.6	272.5	269.4
25°	345.4	328.6	311.0	291.7	281.4	272.6	266.1	261.2	258.4	254.3	252.7
27.5°	326.5	306.1	286.8	273.9	263.0	255.0	249.3	245.7	242.1	239.5	237.4
30°	312.0	291.4	274.0	261.6	250.6	244.1	239.5	235.2	232.3	230.2	228.7
32.5°	297.7	277.0	262.4	249.2	240.4	234.1	229.1	225.9	223.6	220.9	220.0
35°	276.9	258.5	245.8	233.8	225.0	219.2	215.3	212.1	210.1	209.4	208.8
37.5°	256.9	241.9	228.2	218.4	210.5	205.9	201.4	199.7	198.4	197.1	197.7
40°	244.3	230.2	218.0	207.7	201.2	196.2	193.6	191.6	190.5	190.5	190.5
42.5°	233.3	219.6	207.7	198.4	192.0	187.8	184.7	183.1	182.7	182.5	183.5
45°	216.3	203.6	191.6	183.8	178.5	174.2	172.5	171.1	171.1	171.9	172.1
47.5°	199.4	187.5	177.9	169.3	164.3	161.7	160.1	159.5	159.6	160.3	161.2
50°	189.1	177.3	167.9	160.1	155.6	153.0	151.6	151.2	151.6	151.6	153.0
52.5°	177.8	167.3	158.0	151.5	146.3	143.9	143.2	142.6	142.8	143.5	144.1
55°	161.3	151.9	143.0	136.8	133.0	131.4	129.6	129.9	129.5	129.9	129.9
57.5°	144.7	136.2	128.0	123.1	119.7	117.5	115.6	116.1	115.5	115.4	115.1
60°	134.1	124.8	118.3	113.8	110.0	108.0	106.3	106.7	106.2	105.7	104.9
62.5°	122.5	114.8	108.5	104.3	101.2	99.0	97.2	96.9	95.5	94.2	92.5
65°	105.7	99.4	93.8	89.8	86.8	85.1	83.7	82.6	79.7	76.6	75.1
67.5°	89.4	84.8	79.6	76.1	73.8	71.6	69.0	67.0	64.3	62.6	61.6
70°	78.9	74.5	70.0	66.8	64.2	62.1	59.3	57.9	55.9	55.2	54.2
72.5°	68.9	64.7	60.7	57.6	55.0	53.3	51.0	49.7	48.8	48.5	47.6
75°	53.6	50.4	47.3	44.6	42.5	41.3	40.4	39.4	39.0	37.3	36.3
77.5°	39.1	36.9	35.1	33.1	31.6	30.8	28.9	27.9	27.2	26.4	26.2
80°	30.5	28.9	27.0	25.8	23.7	23.0	22.2	22.0	21.8	21.6	21.4
82.5°	22.9	21.4	19.5	18.8	18.2	17.7	17.3	17.0	16.9	17.0	17.0
85°	11.6	10.8	10.8	10.6	10.4	10.2	10.0	10.0	9.9	10.0	9.9
87.5°	5.1	5.0	6.0	5.7	6.1	6.4	6.2	6.4	6.6	6.5	6.5
90°	6.5	6.5	11.4	11.4	13.0	14.7	13.9	14.7	15.5	16.3	16.3
92.5°	43.0	59.9	101.3	164.4	225.9	258.2	215.1	159.9	120.3	95.7	79.4
95°	67.6	101.7	172.5	306.1	500.6	663.3	682.1	603.1	477.0	367.9	288.9
97.5°	81.7	110.4	164.9	275.1	468.5	698.6	856.9	891.1	844.2	764.6	679.6
100°	92.8	118.9	166.9	258.9	424.9	654.4	862.7	981.6	997.8	958.0	897.7
102.5°	105.2	129.9	173.3	254.3	395.6	599.1	813.9	977.1	1057.8	1069.3	1044.2
105°	126.1	149.8	188.8	256.4	370.3	533.9	725.2	911.6	1052.4	1132.9	1166.4
107.5°	147.8	171.0	206.9	268.4	365.7	497.5	653.5	818.6	968.6	1082.1	1154.6
110°	162.8	184.7	220.5	277.5	367.0	485.1	617.8	762.6	903.4	1021.5	1111.0



TEST NUMBER: P332885-930

CATALOG NUMBER: S124RDIP-S350D1035U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	177.1	199.1	233.6	287.3	371.0	479.2	597.6	721.6	846.1	957.7	1047.2
115°	199.4	221.4	254.0	302.8	378.5	476.1	578.7	680.4	780.6	875.8	953.9
117.5°	219.9	242.7	273.6	318.5	386.5	475.3	570.2	660.2	743.1	818.0	884.3
120°	233.6	256.4	287.3	329.6	392.3	475.3	565.7	651.1	726.8	792.0	849.7
122.5°	247.3	269.4	300.4	340.1	398.2	474.7	560.4	643.4	716.4	775.7	826.3
125°	266.1	288.9	318.2	355.7	407.0	473.7	551.9	630.0	699.9	756.1	800.9
127.5°	283.6	306.6	334.8	369.2	413.9	471.9	540.3	613.7	680.6	736.6	779.1
130°	294.6	318.2	345.9	377.6	419.1	471.2	533.1	600.7	665.0	720.3	763.4
132.5°	305.1	327.3	355.1	386.1	423.7	470.6	526.6	587.0	647.4	701.4	744.6
135°	319.8	341.0	367.9	397.2	430.6	469.6	516.8	568.1	621.0	670.7	711.3
137.5°	332.4	352.6	377.6	405.0	434.6	469.4	508.3	551.1	595.8	637.6	674.4
140°	340.2	359.8	384.2	410.2	437.9	468.8	503.9	541.3	579.5	616.1	650.3
142.5°	347.4	366.2	390.0	414.1	440.5	468.8	499.9	532.1	565.8	597.3	626.9
145°	357.3	375.2	396.4	418.3	442.0	467.2	493.3	519.3	547.0	571.4	594.2
147.5°	366.9	383.0	402.9	422.1	442.8	464.2	487.2	508.7	530.7	550.2	568.1
150°	372.8	388.2	406.2	424.0	442.8	462.3	482.7	502.2	520.9	537.2	551.9
152.5°	378.6	392.8	408.8	425.3	441.5	459.0	477.4	495.0	511.1	526.1	538.2
155°	386.6	398.8	412.6	426.5	439.5	454.2	469.6	484.3	497.3	509.5	519.3
157.5°	394.1	403.7	415.4	426.5	437.4	449.1	461.6	472.7	483.6	493.9	501.7
160°	398.0	407.0	416.7	426.5	435.5	445.2	455.8	465.5	474.5	483.5	490.0
162.5°	401.9	409.0	418.0	426.5	433.5	441.3	450.6	458.4	466.0	473.0	478.9
165°	406.2	411.0	418.3	424.9	429.7	435.5	442.0	448.5	453.4	459.0	463.1
167.5°	409.1	412.8	418.2	422.9	425.8	429.6	434.1	438.9	442.6	447.2	449.6
170°	411.0	413.4	417.5	421.6	423.2	425.7	428.9	433.0	435.5	438.7	441.2
172.5°	412.3	414.1	416.9	420.3	420.6	421.8	424.4	427.8	429.6	431.5	433.3
175°	414.3	414.3	415.9	418.3	417.5	417.5	419.1	420.8	421.6	423.2	423.2
177.5°	414.3	414.3	414.9	416.2	414.9	414.9	415.6	416.2	416.9	416.9	417.5
180°	414.3	414.3	414.3	414.3	414.3	414.3	414.3	414.3	414.3	414.3	414.3



TEST NUMBER: P332885-930

CATALOG NUMBER: S124RDIP-S350D1035U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9
2.5°	457.1	457.5	456.4	456.1	456.4	457.5	457.1	458.0	458.2	459.5	459.0
5°	424.1	423.7	422.7	423.0	422.7	423.7	424.1	425.7	426.4	429.5	429.1
7.5°	395.8	394.4	394.8	393.2	394.8	394.4	395.8	397.2	399.6	401.0	404.3
10°	378.5	376.4	374.7	373.2	374.7	376.4	378.5	379.4	382.6	384.2	387.4
12.5°	355.0	353.1	350.8	351.2	350.8	353.1	355.0	358.3	362.6	365.8	371.0
15°	321.5	318.5	314.0	314.5	314.0	318.5	321.5	324.0	328.2	335.6	339.0
17.5°	293.1	293.1	291.0	291.6	291.0	293.1	293.1	296.5	298.7	303.4	308.7
20°	278.4	277.1	277.3	276.7	277.3	277.1	278.4	282.5	284.8	288.0	293.8
22.5°	268.2	266.6	265.2	264.1	265.2	266.6	268.2	269.4	272.5	275.6	280.3
25°	251.0	249.9	248.2	247.8	248.2	249.9	251.0	252.7	254.3	258.4	261.2
27.5°	235.9	235.7	235.0	234.1	235.0	235.7	235.9	237.4	239.5	242.1	245.7
30°	227.1	226.7	226.3	225.8	226.3	226.7	227.1	228.7	230.2	232.3	235.2
32.5°	219.2	219.0	218.6	218.7	218.6	219.0	219.2	220.0	220.9	223.6	225.9
35°	208.0	207.8	207.4	207.2	207.4	207.8	208.0	208.8	209.4	210.1	212.1
37.5°	197.5	198.0	197.8	197.7	197.8	198.0	197.5	197.7	197.1	198.4	199.7
40°	190.3	190.5	190.9	190.6	190.9	190.5	190.3	190.5	190.5	190.5	191.6
42.5°	184.3	184.3	184.8	184.2	184.8	184.3	184.3	183.5	182.5	182.7	183.1
45°	173.5	174.6	174.4	174.4	174.4	174.6	173.5	172.1	171.9	171.1	171.1
47.5°	161.7	162.7	163.0	162.9	163.0	162.7	161.7	161.2	160.3	159.6	159.5
50°	154.0	153.6	154.2	154.0	154.2	153.6	154.0	153.0	151.6	151.6	151.2
52.5°	144.6	144.6	144.6	144.4	144.6	144.6	144.6	144.1	143.5	142.8	142.6
55°	130.0	130.3	129.9	130.0	129.9	130.3	130.0	129.9	129.9	129.5	129.9
57.5°	114.3	113.4	113.7	113.3	113.7	113.4	114.3	115.1	115.4	115.5	116.1
60°	103.1	101.5	101.1	100.4	101.1	101.5	103.1	104.9	105.7	106.2	106.7
62.5°	90.4	89.3	88.0	88.6	88.0	89.3	90.4	92.5	94.2	95.5	96.9
65°	73.5	72.7	72.2	73.0	72.2	72.7	73.5	75.1	76.6	79.7	82.6
67.5°	60.8	60.4	60.4	60.1	60.4	60.4	60.8	61.6	62.6	64.3	67.0
70°	54.2	53.6	53.6	53.2	53.6	53.6	54.2	54.2	55.2	55.9	57.9
72.5°	47.5	46.9	47.0	46.8	47.0	46.9	47.5	47.6	48.5	48.8	49.7
75°	35.1	34.2	34.2	34.3	34.2	34.2	35.1	36.3	37.3	39.0	39.4
77.5°	26.2	26.0	26.3	25.9	26.3	26.0	26.2	26.2	26.4	27.2	27.9
80°	21.4	21.2	21.0	21.6	21.0	21.2	21.4	21.4	21.6	21.8	22.0
82.5°	16.6	16.6	16.6	17.3	16.6	16.6	16.6	17.0	17.0	16.9	17.0
85°	10.0	9.6	10.0	9.6	10.0	9.6	10.0	9.9	10.0	9.9	10.0
87.5°	6.9	7.0	6.7	6.8	6.7	7.0	6.9	6.5	6.5	6.6	6.4
90°	17.1	17.9	17.1	17.1	17.1	17.9	17.1	16.3	16.3	15.5	14.7
92.5°	69.9	65.5	62.7	62.7	62.7	65.5	69.9	79.4	95.7	120.3	159.9
95°	249.1	223.8	209.2	198.6	209.2	223.8	249.1	288.9	367.9	477.0	603.1
97.5°	621.2	572.2	547.8	530.8	547.8	572.2	621.2	679.6	764.6	844.2	891.1
100°	827.0	777.3	752.8	746.4	752.8	777.3	827.0	897.7	958.0	997.8	981.6
102.5°	1000.8	964.8	939.1	933.9	939.1	964.8	1000.8	1044.2	1069.3	1057.8	977.1
105°	1168.0	1161.5	1150.1	1145.2	1150.1	1161.5	1168.0	1166.4	1132.9	1052.4	911.6
107.5°	1194.8	1213.4	1221.6	1223.7	1221.6	1213.4	1194.8	1154.6	1082.1	968.6	818.6
110°	1168.8	1203.0	1217.6	1225.0	1217.6	1203.0	1168.8	1111.0	1021.5	903.4	762.6



TEST NUMBER: P332885-930

CATALOG NUMBER: S124RDIP-S350D1035U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1112.8	1154.1	1174.7	1186.5	1174.7	1154.1	1112.8	1047.2	957.7	846.1	721.6
115°	1018.2	1067.1	1093.1	1099.6	1093.1	1067.1	1018.2	953.9	875.8	780.6	680.4
117.5°	939.1	980.2	1006.5	1011.5	1006.5	980.2	939.1	884.3	818.0	743.1	660.2
120°	896.1	932.0	953.1	962.1	953.1	932.0	896.1	849.7	792.0	726.8	651.1
122.5°	865.5	896.1	914.0	923.0	914.0	896.1	865.5	826.3	775.7	716.4	643.4
125°	833.5	857.0	872.5	877.4	872.5	857.0	833.5	800.9	756.1	699.9	630.0
127.5°	811.8	832.8	845.8	850.7	845.8	832.8	811.8	779.1	736.6	680.6	613.7
130°	796.8	817.2	830.2	835.1	830.2	817.2	796.8	763.4	720.3	665.0	600.7
132.5°	777.3	800.2	812.6	817.5	812.6	800.2	777.3	744.6	701.4	647.4	587.0
135°	744.0	766.7	779.8	784.6	779.8	766.7	744.0	711.3	670.7	621.0	568.1
137.5°	704.8	727.3	738.1	744.0	738.1	727.3	704.8	674.4	637.6	595.8	551.1
140°	678.8	696.8	708.1	714.6	708.1	696.8	678.8	650.3	616.1	579.5	541.3
142.5°	652.1	668.7	678.8	683.4	678.8	668.7	652.1	626.9	597.3	565.8	532.1
145°	614.5	628.4	636.5	640.6	636.5	628.4	614.5	594.2	571.4	547.0	519.3
147.5°	583.1	595.0	601.2	602.6	601.2	595.0	583.1	568.1	550.2	530.7	508.7
150°	564.8	575.4	580.3	581.1	580.3	575.4	564.8	551.9	537.2	520.9	502.2
152.5°	549.3	557.8	560.8	561.6	560.8	557.8	549.3	538.2	526.1	511.1	495.0
155°	527.4	533.9	536.4	536.4	536.4	533.9	527.4	519.3	509.5	497.3	484.3
157.5°	507.8	512.7	514.2	514.2	514.2	512.7	507.8	501.7	493.9	483.6	472.7
160°	494.9	499.8	500.6	500.6	500.6	499.8	494.9	490.0	483.5	474.5	465.5
162.5°	482.5	487.4	488.2	487.5	488.2	487.4	482.5	478.9	473.0	466.0	458.4
165°	466.4	469.6	468.8	468.0	468.8	469.6	466.4	463.1	459.0	453.4	448.5
167.5°	451.3	453.4	453.2	452.6	453.2	453.4	451.3	449.6	447.2	442.6	438.9
170°	442.8	443.6	442.8	442.8	442.8	443.6	442.8	441.2	438.7	435.5	433.0
172.5°	434.3	435.1	434.3	433.0	434.3	435.1	434.3	433.3	431.5	429.6	427.8
175°	423.2	424.9	423.2	421.6	423.2	424.9	423.2	423.2	423.2	421.6	420.8
177.5°	416.9	417.5	416.2	414.9	416.2	417.5	416.9	417.5	416.9	416.9	416.2
180°	414.3	414.3	414.3	414.3	414.3	414.3	414.3	414.3	414.3	414.3	414.3



TEST NUMBER: P332885-930

CATALOG NUMBER: S124RDIP-S350D1035U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9
2.5°	458.0	459.2	461.6	464.4	466.8	468.7	470.3	472.5	474.4	477.2	479.8
5°	430.3	433.0	436.8	441.5	447.3	451.1	455.9	460.2	466.4	472.5	478.5
7.5°	405.9	408.9	414.6	420.9	427.8	434.1	439.9	447.4	455.5	464.6	474.6
10°	390.1	393.5	400.1	407.5	415.6	421.8	429.5	438.4	447.7	458.7	471.0
12.5°	375.9	379.1	387.2	394.7	403.1	409.9	418.9	427.9	440.3	452.2	466.2
15°	348.3	356.6	365.8	374.7	384.7	393.1	403.8	413.1	424.9	441.6	457.7
17.5°	317.6	326.4	337.9	351.6	365.1	375.4	386.3	397.8	411.8	428.9	447.4
20°	299.6	306.8	319.5	334.8	350.4	364.7	374.7	387.4	401.9	420.4	439.5
22.5°	286.3	292.3	302.2	317.5	334.4	350.9	363.8	376.3	392.3	410.9	431.7
25°	266.1	272.6	281.4	291.7	311.0	328.6	345.4	359.9	376.8	395.3	418.5
27.5°	249.3	255.0	263.0	273.9	286.8	306.1	326.5	343.0	360.4	380.3	403.5
30°	239.5	244.1	250.6	261.6	274.0	291.4	312.0	331.3	348.9	369.5	393.6
32.5°	229.1	234.1	240.4	249.2	262.4	277.0	297.7	318.8	337.5	358.6	382.2
35°	215.3	219.2	225.0	233.8	245.8	258.5	276.9	298.7	318.4	341.0	363.5
37.5°	201.4	205.9	210.5	218.4	228.2	241.9	256.9	279.2	301.0	321.6	343.6
40°	193.6	196.2	201.2	207.7	218.0	230.2	244.3	266.1	287.9	308.3	330.5
42.5°	184.7	187.8	192.0	198.4	207.7	219.6	233.3	252.2	274.9	294.7	315.0
45°	172.5	174.2	178.5	183.8	191.6	203.6	216.3	233.1	254.5	273.5	291.1
47.5°	160.1	161.7	164.3	169.3	177.9	187.5	199.4	214.5	233.3	252.2	267.2
50°	151.6	153.0	155.6	160.1	167.9	177.3	189.1	202.6	219.4	237.5	250.1
52.5°	143.2	143.9	146.3	151.5	158.0	167.3	177.8	190.3	205.9	221.0	233.7
55°	129.6	131.4	133.0	136.8	143.0	151.9	161.3	173.1	185.2	198.0	208.8
57.5°	115.6	117.5	119.7	123.1	128.0	136.2	144.7	154.3	164.7	175.2	184.3
60°	106.3	108.0	110.0	113.8	118.3	124.8	134.1	142.4	150.3	160.0	169.0
62.5°	97.2	99.0	101.2	104.3	108.5	114.8	122.5	129.7	137.9	146.3	153.1
65°	83.7	85.1	86.8	89.8	93.8	99.4	105.7	111.4	118.7	124.8	131.0
67.5°	69.0	71.6	73.8	76.1	79.6	84.8	89.4	94.8	99.8	104.4	110.0
70°	59.3	62.1	64.2	66.8	70.0	74.5	78.9	82.6	86.7	91.1	96.1
72.5°	51.0	53.3	55.0	57.6	60.7	64.7	68.9	71.9	75.3	78.3	83.2
75°	40.4	41.3	42.5	44.6	47.3	50.4	53.6	56.3	58.3	61.0	64.4
77.5°	28.9	30.8	31.6	33.1	35.1	36.9	39.1	41.4	43.3	44.2	46.9
80°	22.2	23.0	23.7	25.8	27.0	28.9	30.5	32.6	33.3	34.3	36.9
82.5°	17.3	17.7	18.2	18.8	19.5	21.4	22.9	24.3	25.0	25.4	27.3
85°	10.0	10.2	10.4	10.6	10.8	10.8	11.6	12.6	13.9	13.9	14.5
87.5°	6.2	6.4	6.1	5.7	6.0	5.0	5.1	5.0	5.3	5.3	5.4
90°	13.9	14.7	13.0	11.4	11.4	6.5	6.5	5.7	4.9	2.4	0.8
92.5°	215.1	258.2	225.9	164.4	101.3	59.9	43.0	31.1	21.2	13.5	9.3
95°	682.1	663.3	500.6	306.1	172.5	101.7	67.6	48.0	37.4	29.3	26.8
97.5°	856.9	698.6	468.5	275.1	164.9	110.4	81.7	65.0	55.2	48.2	48.2
100°	862.7	654.4	424.9	258.9	166.9	118.9	92.8	77.3	67.6	61.9	61.9
102.5°	813.9	599.1	395.6	254.3	173.3	129.9	105.2	90.3	81.2	76.1	74.8
105°	725.2	533.9	370.3	256.4	188.8	149.8	126.1	111.5	101.7	97.7	95.2
107.5°	653.5	497.5	365.7	268.4	206.9	171.0	147.8	133.8	123.4	119.4	117.7
110°	617.8	485.1	367.0	277.5	220.5	184.7	162.8	148.1	138.4	134.3	132.6



TEST NUMBER: P332885-930

CATALOG NUMBER: S124RDIP-S350D1035U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	597.6	479.2	371.0	287.3	233.6	199.1	177.1	162.5	153.4	148.6	147.0
115°	578.7	476.1	378.5	302.8	254.0	221.4	199.4	183.9	175.8	170.1	167.7
117.5°	570.2	475.3	386.5	318.5	273.6	242.7	219.9	205.5	196.5	191.4	189.1
120°	565.7	475.3	392.3	329.6	287.3	256.4	233.6	219.7	210.8	205.1	203.5
122.5°	560.4	474.7	398.2	340.1	300.4	269.4	247.3	232.1	223.8	218.1	216.5
125°	551.9	473.7	407.0	355.7	318.2	288.9	266.1	250.7	241.7	236.8	233.6
127.5°	540.3	471.9	413.9	369.2	334.8	306.6	283.6	267.4	257.2	251.4	248.7
130°	533.1	471.2	419.1	377.6	345.9	318.2	294.6	279.2	266.9	260.5	257.2
132.5°	526.6	470.6	423.7	386.1	355.1	327.3	305.1	288.3	276.7	268.2	265.6
135°	516.8	469.6	430.6	397.2	367.9	341.0	319.8	302.8	288.9	280.8	277.5
137.5°	508.3	469.4	434.6	405.0	377.6	352.6	332.4	314.6	301.5	292.5	289.4
140°	503.9	468.8	437.9	410.2	384.2	359.8	340.2	323.1	309.3	300.4	297.9
142.5°	499.9	468.8	440.5	414.1	390.0	366.2	347.4	330.9	317.7	309.5	307.0
145°	493.3	467.2	442.0	418.3	396.4	375.2	357.3	341.9	330.4	322.3	319.8
147.5°	487.2	464.2	442.8	422.1	402.9	383.0	366.9	354.1	342.3	335.2	334.4
150°	482.7	462.3	442.8	424.0	406.2	388.2	372.8	360.6	350.8	344.3	343.5
152.5°	477.4	459.0	441.5	425.3	408.8	392.8	378.6	367.7	358.7	352.1	352.0
155°	469.6	454.2	439.5	426.5	412.6	398.8	386.6	377.6	369.5	364.6	363.8
157.5°	461.6	449.1	437.4	426.5	415.4	403.7	394.1	386.3	379.9	375.4	375.4
160°	455.8	445.2	435.5	426.5	416.7	407.0	398.0	391.5	385.8	382.5	382.5
162.5°	450.6	441.3	433.5	426.5	418.0	409.0	401.9	396.1	391.0	388.4	389.1
165°	442.0	435.5	429.7	424.9	418.3	411.0	406.2	402.1	398.0	396.4	396.4
167.5°	434.1	429.6	425.8	422.9	418.2	412.8	409.1	406.8	403.7	402.9	403.7
170°	428.9	425.7	423.2	421.6	417.5	413.4	411.0	409.4	407.0	406.2	407.0
172.5°	424.4	421.8	420.6	420.3	416.9	414.1	412.3	411.3	409.5	409.4	410.2
175°	419.1	417.5	417.5	418.3	415.9	414.3	414.3	413.4	412.6	412.6	413.4
177.5°	415.6	414.9	414.9	416.2	414.9	414.3	414.3	414.3	413.6	414.3	414.9
180°	414.3	414.3	414.3	414.3	414.3	414.3	414.3	414.3	414.3	414.3	414.3



TEST NUMBER: P332885-930

CATALOG NUMBER: S124RDIP-S350D1035U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9
2.5°	481.8	483.2	484.8	487.7	490.2	491.3	493.4	495.0	494.5	496.7	500.3
5°	483.7	488.9	495.0	501.1	508.0	513.8	518.4	523.1	526.8	531.2	537.8
7.5°	483.4	492.7	502.8	513.8	525.2	535.1	544.1	553.4	561.7	570.6	582.4
10°	482.2	494.6	507.1	521.5	536.1	549.8	562.1	573.6	584.7	596.4	611.3
12.5°	480.8	495.0	510.1	527.6	545.6	562.1	576.6	593.3	607.1	622.2	639.4
15°	474.7	493.7	514.5	537.0	558.6	580.8	600.6	621.1	640.3	658.4	680.0
17.5°	467.7	489.7	514.0	540.7	566.6	593.6	617.3	643.0	662.5	686.9	706.9
20°	461.9	485.7	511.7	541.6	571.1	601.0	627.1	653.4	675.3	699.9	725.3
22.5°	455.0	481.0	509.2	540.2	571.1	603.8	632.7	658.8	686.0	713.5	739.8
25°	443.8	470.8	500.8	534.7	570.2	603.6	634.5	666.8	696.2	726.1	749.7
27.5°	430.1	458.4	489.9	525.0	561.4	595.6	631.9	666.5	696.0	724.8	745.3
30°	419.1	449.0	479.3	514.8	552.6	589.3	628.3	662.8	693.9	719.7	731.3
32.5°	407.8	436.2	467.4	503.4	542.1	581.6	620.2	655.6	684.3	699.8	700.1
35°	388.2	414.8	447.3	482.6	522.4	565.2	604.3	639.0	656.6	657.9	639.0
37.5°	366.9	391.3	421.8	457.2	500.8	543.4	583.3	606.5	612.4	592.7	557.8
40°	351.6	374.1	403.7	439.9	483.1	527.2	563.6	580.6	574.5	542.6	503.6
42.5°	335.5	356.5	385.0	420.8	464.1	508.7	539.7	548.8	532.5	495.7	450.0
45°	309.3	328.6	356.8	392.9	434.6	476.2	499.8	495.1	467.9	424.3	373.2
47.5°	282.0	300.7	326.0	359.4	402.1	438.1	454.0	440.0	401.3	353.4	311.8
50°	264.0	283.1	306.4	338.3	377.2	412.0	422.2	401.0	357.9	311.9	273.6
52.5°	246.2	262.5	285.4	316.2	353.4	382.8	388.2	363.8	319.4	278.0	244.1
55°	219.2	234.1	253.3	282.3	314.5	339.4	336.5	305.1	264.7	229.4	202.8
57.5°	193.1	204.2	222.1	249.2	277.5	294.2	283.6	256.8	219.2	190.3	167.9
60°	175.8	186.2	202.8	226.5	251.4	260.9	252.0	222.9	193.1	166.7	147.8
62.5°	159.4	168.6	182.9	204.9	225.0	230.6	221.1	195.7	168.9	146.3	130.7
65°	135.7	144.1	156.3	171.9	185.8	188.5	182.4	156.3	136.1	117.2	106.3
67.5°	114.1	119.6	129.1	142.6	150.0	151.6	139.7	123.3	105.4	93.8	85.7
70°	99.5	103.5	112.3	119.6	125.6	125.8	114.8	101.7	88.0	78.5	72.6
72.5°	85.5	89.2	96.0	100.9	105.6	104.0	94.0	83.6	72.6	65.4	61.0
75°	66.0	69.3	72.7	75.1	75.1	73.1	65.8	58.0	51.7	47.5	46.1
77.5°	47.9	50.6	51.9	51.4	50.8	47.8	43.1	38.1	35.8	33.8	32.8
80°	37.7	38.8	39.1	38.2	37.0	33.6	30.5	28.4	26.3	25.4	25.1
82.5°	27.9	28.9	27.9	28.2	25.6	22.7	21.0	20.3	19.5	19.2	18.8
85°	14.8	14.7	14.3	13.3	11.6	11.2	11.0	10.8	10.4	10.6	10.2
87.5°	5.5	5.6	5.1	5.1	5.1	5.8	6.0	6.3	6.6	6.3	6.8
90°	2.4	4.9	5.7	6.5	6.5	11.4	11.4	13.0	14.7	13.9	14.7
92.5°	13.5	21.2	31.1	43.0	59.9	101.3	164.4	225.9	258.2	215.1	159.9
95°	29.3	37.4	48.0	67.6	101.7	172.5	306.1	500.6	663.3	682.1	603.1
97.5°	48.2	55.2	65.0	81.7	110.4	164.9	275.1	468.5	698.6	856.9	891.1
100°	61.9	67.6	77.3	92.8	118.9	166.9	258.9	424.9	654.4	862.7	981.6
102.5°	76.1	81.2	90.3	105.2	129.9	173.3	254.3	395.6	599.1	813.9	977.1
105°	97.7	101.7	111.5	126.1	149.8	188.8	256.4	370.3	533.9	725.2	911.6
107.5°	119.4	123.4	133.8	147.8	171.0	206.9	268.4	365.7	497.5	653.5	818.6
110°	134.3	138.4	148.1	162.8	184.7	220.5	277.5	367.0	485.1	617.8	762.6



TEST NUMBER: P332885-930

CATALOG NUMBER: S124RDIP-S350D1035U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	148.6	153.4	162.5	177.1	199.1	233.6	287.3	371.0	479.2	597.6	721.6
115°	170.1	175.8	183.9	199.4	221.4	254.0	302.8	378.5	476.1	578.7	680.4
117.5°	191.4	196.5	205.5	219.9	242.7	273.6	318.5	386.5	475.3	570.2	660.2
120°	205.1	210.8	219.7	233.6	256.4	287.3	329.6	392.3	475.3	565.7	651.1
122.5°	218.1	223.8	232.1	247.3	269.4	300.4	340.1	398.2	474.7	560.4	643.4
125°	236.8	241.7	250.7	266.1	288.9	318.2	355.7	407.0	473.7	551.9	630.0
127.5°	251.4	257.2	267.4	283.6	306.6	334.8	369.2	413.9	471.9	540.3	613.7
130°	260.5	266.9	279.2	294.6	318.2	345.9	377.6	419.1	471.2	533.1	600.7
132.5°	268.2	276.7	288.3	305.1	327.3	355.1	386.1	423.7	470.6	526.6	587.0
135°	280.8	288.9	302.8	319.8	341.0	367.9	397.2	430.6	469.6	516.8	568.1
137.5°	292.5	301.5	314.6	332.4	352.6	377.6	405.0	434.6	469.4	508.3	551.1
140°	300.4	309.3	323.1	340.2	359.8	384.2	410.2	437.9	468.8	503.9	541.3
142.5°	309.5	317.7	330.9	347.4	366.2	390.0	414.1	440.5	468.8	499.9	532.1
145°	322.3	330.4	341.9	357.3	375.2	396.4	418.3	442.0	467.2	493.3	519.3
147.5°	335.2	342.3	354.1	366.9	383.0	402.9	422.1	442.8	464.2	487.2	508.7
150°	344.3	350.8	360.6	372.8	388.2	406.2	424.0	442.8	462.3	482.7	502.2
152.5°	352.1	358.7	367.7	378.6	392.8	408.8	425.3	441.5	459.0	477.4	495.0
155°	364.6	369.5	377.6	386.6	398.8	412.6	426.5	439.5	454.2	469.6	484.3
157.5°	375.4	379.9	386.3	394.1	403.7	415.4	426.5	437.4	449.1	461.6	472.7
160°	382.5	385.8	391.5	398.0	407.0	416.7	426.5	435.5	445.2	455.8	465.5
162.5°	388.4	391.0	396.1	401.9	409.0	418.0	426.5	433.5	441.3	450.6	458.4
165°	396.4	398.0	402.1	406.2	411.0	418.3	424.9	429.7	435.5	442.0	448.5
167.5°	402.9	403.7	406.8	409.1	412.8	418.2	422.9	425.8	429.6	434.1	438.9
170°	406.2	407.0	409.4	411.0	413.4	417.5	421.6	423.2	425.7	428.9	433.0
172.5°	409.4	409.5	411.3	412.3	414.1	416.9	420.3	420.6	421.8	424.4	427.8
175°	412.6	412.6	413.4	414.3	414.3	415.9	418.3	417.5	417.5	419.1	420.8
177.5°	414.3	413.6	414.3	414.3	414.3	414.9	416.2	414.9	414.9	415.6	416.2
180°	414.3	414.3	414.3	414.3	414.3	414.3	414.3	414.3	414.3	414.3	414.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	478.9	478.9	478.9	478.9	478.9	478.9	478.9
2.5°	502.4	503.0	503.4	505.0	505.2	506.5	505.2
5°	544.0	546.7	550.9	555.1	555.5	558.2	553.4
7.5°	590.5	596.8	600.7	607.6	610.3	612.0	609.2
10°	622.6	628.4	638.7	643.7	648.7	649.5	647.2
12.5°	653.7	662.8	670.9	680.4	680.2	687.0	684.5
15°	695.0	704.5	715.7	726.3	730.1	730.1	733.2
17.5°	724.5	741.8	753.4	761.7	770.9	772.4	771.4
20°	744.4	763.1	775.5	786.3	792.5	794.2	794.2
22.5°	759.2	775.2	787.3	797.0	802.0	804.0	803.5
25°	769.5	783.2	790.5	793.4	794.8	794.4	790.8
27.5°	755.5	754.8	750.2	741.4	734.7	730.6	725.9
30°	728.6	718.5	706.9	694.2	677.8	665.3	661.5
32.5°	688.6	666.1	646.5	625.3	607.6	595.1	589.8
35°	611.3	575.6	546.4	521.0	502.5	490.9	487.0
37.5°	519.5	484.9	448.9	424.2	408.8	397.1	392.8
40°	461.1	423.5	392.1	368.9	353.1	341.7	341.5
42.5°	407.9	371.9	342.3	325.7	308.7	301.1	301.1
45°	334.0	305.2	280.1	267.0	256.8	250.6	248.9
47.5°	276.5	252.7	236.0	225.6	217.3	213.4	210.8
50°	244.3	223.5	210.1	201.1	196.4	191.4	191.0
52.5°	217.4	200.6	190.2	182.9	177.0	174.0	174.1
55°	182.7	169.4	162.1	156.5	151.9	149.5	148.5
57.5°	153.9	144.0	138.6	133.5	131.5	129.7	129.2
60°	136.1	129.3	124.3	120.2	117.3	116.8	116.5
62.5°	121.2	114.1	110.7	107.5	105.4	104.5	104.2
65°	100.0	94.7	91.6	89.1	88.4	87.0	86.8
67.5°	80.6	77.5	75.4	73.7	72.6	72.6	72.6
70°	68.7	66.9	65.2	64.2	63.7	63.3	63.3
72.5°	58.5	57.2	55.8	55.3	55.2	54.8	54.6
75°	44.6	43.2	43.5	42.5	41.7	40.7	40.1
77.5°	31.6	30.7	30.4	30.3	29.7	29.6	29.8
80°	24.5	23.6	23.3	23.6	23.3	22.7	22.7
82.5°	18.7	17.9	17.6	17.5	17.4	17.5	17.2
85°	10.0	9.6	9.6	9.6	10.0	9.9	9.6
87.5°	6.6	6.7	6.8	6.8	7.0	6.7	6.8
90°	15.5	16.3	16.3	17.1	17.9	17.1	17.1
92.5°	120.3	95.7	79.4	69.9	65.5	62.7	62.7
95°	477.0	367.9	288.9	249.1	223.8	209.2	198.6
97.5°	844.2	764.6	679.6	621.2	572.2	547.8	530.8
100°	997.8	958.0	897.7	827.0	777.3	752.8	746.4
102.5°	1057.8	1069.3	1044.2	1000.8	964.8	939.1	933.9
105°	1052.4	1132.9	1166.4	1168.0	1161.5	1150.1	1145.2
107.5°	968.6	1082.1	1154.6	1194.8	1213.4	1221.6	1223.7
110°	903.4	1021.5	1111.0	1168.8	1203.0	1217.6	1225.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	846.1	957.7	1047.2	1112.8	1154.1	1174.7	1186.5
115°	780.6	875.8	953.9	1018.2	1067.1	1093.1	1099.6
117.5°	743.1	818.0	884.3	939.1	980.2	1006.5	1011.5
120°	726.8	792.0	849.7	896.1	932.0	953.1	962.1
122.5°	716.4	775.7	826.3	865.5	896.1	914.0	923.0
125°	699.9	756.1	800.9	833.5	857.0	872.5	877.4
127.5°	680.6	736.6	779.1	811.8	832.8	845.8	850.7
130°	665.0	720.3	763.4	796.8	817.2	830.2	835.1
132.5°	647.4	701.4	744.6	777.3	800.2	812.6	817.5
135°	621.0	670.7	711.3	744.0	766.7	779.8	784.6
137.5°	595.8	637.6	674.4	704.8	727.3	738.1	744.0
140°	579.5	616.1	650.3	678.8	696.8	708.1	714.6
142.5°	565.8	597.3	626.9	652.1	668.7	678.8	683.4
145°	547.0	571.4	594.2	614.5	628.4	636.5	640.6
147.5°	530.7	550.2	568.1	583.1	595.0	601.2	602.6
150°	520.9	537.2	551.9	564.8	575.4	580.3	581.1
152.5°	511.1	526.1	538.2	549.3	557.8	560.8	561.6
155°	497.3	509.5	519.3	527.4	533.9	536.4	536.4
157.5°	483.6	493.9	501.7	507.8	512.7	514.2	514.2
160°	474.5	483.5	490.0	494.9	499.8	500.6	500.6
162.5°	466.0	473.0	478.9	482.5	487.4	488.2	487.5
165°	453.4	459.0	463.1	466.4	469.6	468.8	468.0
167.5°	442.6	447.2	449.6	451.3	453.4	453.2	452.6
170°	435.5	438.7	441.2	442.8	443.6	442.8	442.8
172.5°	429.6	431.5	433.3	434.3	435.1	434.3	433.0
175°	421.6	423.2	423.2	423.2	424.9	423.2	421.6
177.5°	416.9	416.9	417.5	416.9	417.5	416.2	414.9
180°	414.3	414.3	414.3	414.3	414.3	414.3	414.3

(END OF REPORT)