

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: P333015-930

Luminaire Tested: **S124RDIW-S350D470U930-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P333015-930  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S124RDIW-S350D470U930-4F0-1E-UDD-A  
Description: DEFINE 4 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 350 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 470 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2740.1 lumens  
Efficiency: N/A  
Efficacy: 119.1 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: General Diffuse

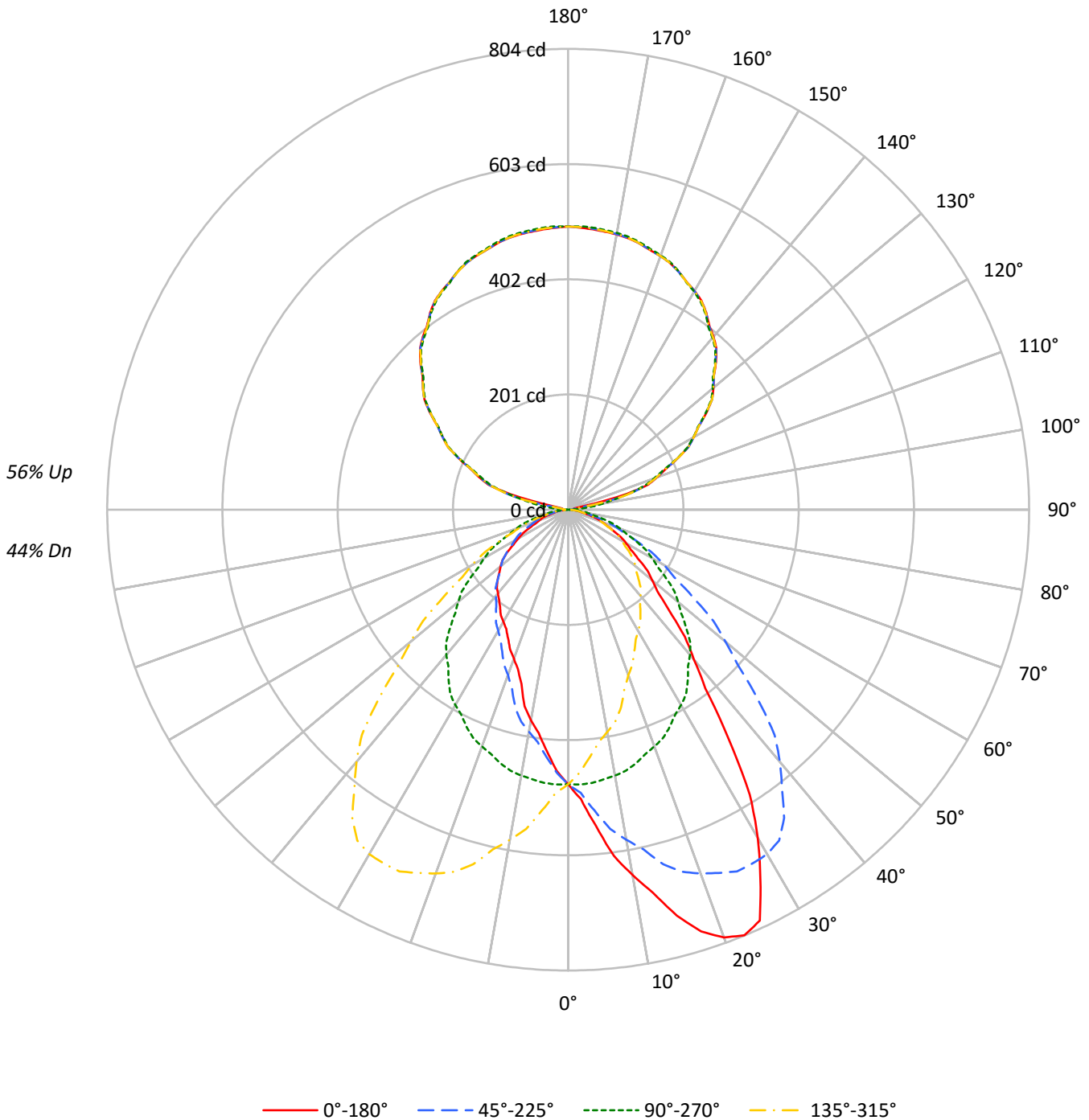
Input Watts (W): 23  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	44
1	97	93	89	86	89	85	82	79	71	69	67	58	56	55	46	45	44	38
2	89	81	76	71	81	75	70	66	63	59	56	51	49	46	41	39	37	33
3	81	72	65	59	74	66	60	55	55	51	47	45	42	40	36	34	32	28
4	74	64	56	50	68	59	52	47	49	45	41	41	37	34	33	30	28	24
5	68	57	49	43	62	53	46	41	44	39	35	37	33	30	30	27	25	21
6	63	51	43	38	58	47	40	35	40	35	31	33	29	26	27	24	22	19
7	58	46	39	33	53	43	36	31	36	31	27	30	26	23	25	22	20	17
8	54	42	34	29	49	39	32	28	33	28	24	28	24	21	23	20	18	15
9	50	38	31	26	46	36	29	25	30	25	22	26	22	19	21	18	16	14
10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	19	17	14	12

**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	1.7
10°-20°	140.0	5.1
20°-30°	218.9	8.0
30°-40°	243.4	8.9
40°-50°	215.9	7.9
50°-60°	168.3	6.1
60°-70°	110.2	4.0
70°-80°	54.2	2.0
80°-90°	14.8	0.5
90°-100°	16.9	0.6
100°-110°	107.7	3.9
110°-120°	206.1	7.5
120°-130°	261.6	9.5
130°-140°	279.9	10.2
140°-150°	261.7	9.6
150°-160°	211.1	7.7
160°-170°	136.1	5.0
170°-180°	46.9	1.7
0°-30°	405.3	14.8
0°-40°	648.7	23.7
0°-60°	1032.9	37.7
0°-90°	1212.0	44.2
90°-120°	330.7	12.1
90°-150°	1134.0	41.4
90°-180°	1528.0	55.8
0°-180°	2740.1	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°	11	1	11	1	11	5
95°	11	20	11	20	11	9
105°	105	111	105	111	105	92
115°	209	208	209	208	209	207
125°	294	292	294	292	294	262
135°	365	362	365	362	365	281
145°	420	418	420	418	420	262
155°	458	458	458	458	458	211
165°	481	483	481	483	481	136
175°	491	494	491	494	491	47
180°	494	494	494	494	494	



TEST NUMBER: P333015-930

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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°	5.6	5.5	5.5	5.5	5.6	5.4	5.5	5.7	5.3	5.3	5.2
90°	11.1	10.9	10.8	10.6	10.4	10.1	9.6	9.1	8.6	8.2	7.5
92.5°	10.2	10.2	10.1	10.1	10.0	9.8	9.3	8.8	8.3	7.8	7.2
95°	10.7	10.6	10.5	10.4	10.4	10.1	9.6	9.1	8.6	8.2	8.1
97.5°	10.4	10.3	10.2	10.1	10.0	9.9	9.9	9.9	9.8	9.8	18.9
100°	10.4	10.3	10.2	10.1	10.0	10.7	12.1	13.5	14.8	16.2	27.6
102.5°	10.7	10.6	10.6	10.6	10.6	18.1	33.2	48.2	63.3	78.4	79.8
105°	105.3	108.3	111.2	114.1	117.2	118.2	117.5	116.8	116.0	115.3	114.9
107.5°	146.8	146.4	146.1	145.9	145.5	145.2	144.8	144.5	144.1	143.7	143.2
110°	164.8	164.5	164.3	164.0	163.8	163.6	163.5	163.3	163.1	163.0	162.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	182.8	182.5	182.2	181.9	181.6	181.4	181.5	181.5	181.6	181.6	181.3
115°	209.1	209.1	209.1	209.1	209.1	209.0	208.9	208.7	208.6	208.4	208.5
117.5°	235.9	235.9	235.9	235.9	236.0	236.0	236.1	236.1	236.1	236.2	236.0
120°	252.7	252.9	253.1	253.2	253.4	253.4	253.2	253.1	252.9	252.7	252.8
122.5°	269.3	269.5	269.6	269.8	269.9	269.9	269.9	269.8	269.7	269.6	269.5
125°	294.1	294.0	293.9	293.8	293.8	293.6	293.3	293.1	292.9	292.6	292.8
127.5°	315.9	316.0	316.0	316.1	316.2	316.3	316.3	316.3	316.4	316.4	316.1
130°	330.7	330.7	330.7	330.7	330.7	330.7	330.6	330.5	330.4	330.4	330.1
132.5°	344.3	344.4	344.5	344.5	344.5	344.5	344.5	344.4	344.3	344.2	343.9
135°	364.7	364.5	364.4	364.2	364.0	363.9	363.7	363.5	363.4	363.2	362.9
137.5°	382.1	382.2	382.2	382.3	382.3	382.3	382.0	381.9	381.7	381.6	381.2
140°	394.3	394.2	394.1	394.0	394.0	393.8	393.5	393.3	393.1	392.8	392.6
142.5°	404.3	404.3	404.3	404.2	404.2	404.1	404.0	403.7	403.6	403.4	403.3
145°	419.7	419.6	419.4	419.2	419.1	419.0	418.9	418.8	418.7	418.7	418.7
147.5°	432.5	432.4	432.4	432.3	432.2	432.1	432.0	432.0	431.9	431.9	431.9
150°	440.8	440.8	440.7	440.6	440.5	440.4	440.4	440.4	440.4	440.4	440.5
152.5°	447.9	447.9	448.0	448.1	448.1	448.1	447.9	447.8	447.7	447.5	447.7
155°	457.5	457.7	458.0	458.2	458.4	458.4	458.0	457.7	457.4	457.1	457.3
157.5°	465.5	465.9	466.3	466.7	467.1	467.1	466.7	466.3	465.9	465.5	465.7
160°	470.8	471.2	471.7	472.2	472.7	472.7	472.2	471.7	471.2	470.8	470.8
162.5°	474.9	475.4	476.0	476.5	477.1	477.1	476.6	476.1	475.6	475.2	475.2
165°	480.7	481.4	482.2	482.9	483.6	483.7	483.1	482.4	481.8	481.1	481.1
167.5°	485.1	485.9	486.7	487.5	488.4	488.4	487.7	487.0	486.2	485.5	485.6
170°	487.7	488.5	489.3	490.2	491.1	491.1	490.4	489.8	489.1	488.4	488.4
172.5°	489.2	490.1	491.0	491.9	492.8	492.8	492.2	491.5	490.9	490.2	490.2
175°	491.1	492.0	493.0	494.0	495.0	495.1	494.4	493.7	492.9	492.2	492.1
177.5°	492.3	493.0	493.8	494.6	495.4	495.5	495.0	494.5	493.9	493.4	493.3
180°	494.0	494.0	494.0	494.0	494.0	494.0	494.0	494.0	494.0	494.0	494.0



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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°	5.1	4.8	5.0	4.8	4.8	5.2	5.5	5.5	5.2	4.9	4.6
90°	6.8	6.2	5.5	4.7	3.8	2.9	2.0	1.1	2.0	2.9	3.8
92.5°	6.5	5.9	5.2	4.9	4.8	4.7	4.7	4.6	4.7	4.7	4.8
95°	8.0	7.9	7.8	9.1	12.0	14.8	17.5	20.3	17.5	14.8	12.0
97.5°	28.0	37.3	46.4	50.1	48.3	46.6	44.9	43.1	44.9	46.6	48.3
100°	38.9	50.2	61.6	66.5	65.1	63.6	62.0	60.6	62.0	63.6	65.1
102.5°	81.3	82.8	84.2	84.5	83.3	82.3	81.2	80.1	81.2	82.3	83.3
105°	114.5	114.1	113.7	113.2	112.7	112.2	111.7	111.2	111.7	112.2	112.7
107.5°	142.6	142.0	141.5	141.1	140.9	140.6	140.4	140.1	140.4	140.6	140.9
110°	162.0	161.4	160.9	160.6	160.4	160.1	159.9	159.6	159.9	160.1	160.4





TEST NUMBER: P333015-930

CATALOG NUMBER: S124RDIW-S350D470U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	181.1	180.9	180.7	180.3	179.9	179.4	179.0	178.6	179.0	179.4	179.9
115°	208.6	208.6	208.7	208.6	208.4	208.1	207.9	207.7	207.9	208.1	208.4
117.5°	235.8	235.6	235.5	235.2	234.9	234.6	234.2	233.9	234.2	234.6	234.9
120°	252.9	253.0	253.1	252.9	252.6	252.3	251.9	251.6	251.9	252.3	252.6
122.5°	269.4	269.2	269.1	269.0	268.8	268.6	268.4	268.2	268.4	268.6	268.8
125°	292.9	293.1	293.3	293.2	292.9	292.5	292.2	291.9	292.2	292.5	292.9
127.5°	315.7	315.3	315.0	314.7	314.6	314.5	314.5	314.4	314.5	314.5	314.6
130°	329.9	329.6	329.4	329.2	329.1	329.1	328.9	328.8	328.9	329.1	329.1
132.5°	343.6	343.3	343.0	342.8	342.6	342.4	342.3	342.2	342.3	342.4	342.6
135°	362.6	362.2	361.9	361.7	361.8	361.9	362.0	362.1	362.0	361.9	361.8
137.5°	380.8	380.4	380.1	379.9	379.8	379.8	379.8	379.8	379.8	379.8	379.8
140°	392.5	392.2	392.1	391.9	391.8	391.6	391.4	391.3	391.4	391.6	391.8
142.5°	403.2	403.1	403.0	402.8	402.5	402.3	401.9	401.6	401.9	402.3	402.5
145°	418.7	418.7	418.7	418.5	418.2	418.0	417.8	417.5	417.8	418.0	418.2
147.5°	432.0	432.1	432.2	432.0	431.5	431.0	430.6	430.2	430.6	431.0	431.5
150°	440.6	440.7	440.8	440.7	440.3	440.0	439.7	439.4	439.7	440.0	440.3
152.5°	447.8	448.0	448.1	448.1	447.8	447.5	447.3	447.0	447.3	447.5	447.8
155°	457.5	457.8	458.0	458.1	458.0	458.0	457.9	457.8	457.9	458.0	458.0
157.5°	465.9	466.3	466.5	466.7	466.8	466.8	466.8	466.9	466.8	466.8	466.8
160°	470.9	471.0	471.1	471.2	471.5	471.7	472.0	472.2	472.0	471.7	471.5
162.5°	475.3	475.4	475.5	475.7	476.0	476.3	476.6	477.0	476.6	476.3	476.0
165°	481.1	481.1	481.1	481.3	481.7	482.1	482.5	482.9	482.5	482.1	481.7
167.5°	485.6	485.7	485.7	485.9	486.4	486.8	487.2	487.6	487.2	486.8	486.4
170°	488.3	488.2	488.1	488.4	488.9	489.3	489.8	490.3	489.8	489.3	488.9
172.5°	490.1	490.0	489.9	490.2	490.6	491.1	491.6	492.1	491.6	491.1	490.6
175°	492.0	492.0	491.9	492.0	492.5	493.0	493.5	494.0	493.5	493.0	492.5
177.5°	493.2	493.0	492.9	493.1	493.5	494.0	494.5	494.9	494.5	494.0	493.5
180°	494.0	494.0	494.0	494.0	494.0	494.0	494.0	494.0	494.0	494.0	494.0



TEST NUMBER: P333015-930

CATALOG NUMBER: S124RDIW-S350D470U930-4F0-1E-UDD-A

**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°	4.8	4.8	5.0	4.7	5.1	5.1	5.1	5.2	5.5	5.3	5.3
90°	4.7	5.5	6.2	6.8	7.5	8.2	8.6	9.1	9.6	10.1	10.4
92.5°	4.9	5.2	5.9	6.5	7.2	7.8	8.3	8.8	9.3	9.8	10.0
95°	9.1	7.8	7.9	8.0	8.1	8.2	8.6	9.1	9.6	10.1	10.4
97.5°	50.1	46.4	37.3	28.0	18.9	9.8	9.8	9.9	9.9	9.9	10.0
100°	66.5	61.6	50.2	38.9	27.6	16.2	14.8	13.5	12.1	10.7	10.0
102.5°	84.5	84.2	82.8	81.3	79.8	78.4	63.3	48.2	33.2	18.1	10.6
105°	113.2	113.7	114.1	114.5	114.9	115.3	116.0	116.8	117.5	118.2	117.2
107.5°	141.1	141.5	142.0	142.6	143.2	143.7	144.1	144.5	144.8	145.2	145.5
110°	160.6	160.9	161.4	162.0	162.5	163.0	163.1	163.3	163.5	163.6	163.8



TEST NUMBER: P333015-930

CATALOG NUMBER: S124RDIW-S350D470U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	180.3	180.7	180.9	181.1	181.3	181.6	181.6	181.5	181.5	181.4	181.6
115°	208.6	208.7	208.6	208.6	208.5	208.4	208.6	208.7	208.9	209.0	209.1
117.5°	235.2	235.5	235.6	235.8	236.0	236.2	236.1	236.1	236.1	236.0	236.0
120°	252.9	253.1	253.0	252.9	252.8	252.7	252.9	253.1	253.2	253.4	253.4
122.5°	269.0	269.1	269.2	269.4	269.5	269.6	269.7	269.8	269.9	269.9	269.9
125°	293.2	293.3	293.1	292.9	292.8	292.6	292.9	293.1	293.3	293.6	293.8
127.5°	314.7	315.0	315.3	315.7	316.1	316.4	316.4	316.3	316.3	316.3	316.2
130°	329.2	329.4	329.6	329.9	330.1	330.4	330.4	330.5	330.6	330.7	330.7
132.5°	342.8	343.0	343.3	343.6	343.9	344.2	344.3	344.4	344.5	344.5	344.5
135°	361.7	361.9	362.2	362.6	362.9	363.2	363.4	363.5	363.7	363.9	364.0
137.5°	379.9	380.1	380.4	380.8	381.2	381.6	381.7	381.9	382.0	382.3	382.3
140°	391.9	392.1	392.2	392.5	392.6	392.8	393.1	393.3	393.5	393.8	394.0
142.5°	402.8	403.0	403.1	403.2	403.3	403.4	403.6	403.7	404.0	404.1	404.2
145°	418.5	418.7	418.7	418.7	418.7	418.7	418.7	418.8	418.9	419.0	419.1
147.5°	432.0	432.2	432.1	432.0	431.9	431.9	431.9	432.0	432.0	432.1	432.2
150°	440.7	440.8	440.7	440.6	440.5	440.4	440.4	440.4	440.4	440.4	440.5
152.5°	448.1	448.1	448.0	447.8	447.7	447.5	447.7	447.8	447.9	448.1	448.1
155°	458.1	458.0	457.8	457.5	457.3	457.1	457.4	457.7	458.0	458.4	458.4
157.5°	466.7	466.5	466.3	465.9	465.7	465.5	465.9	466.3	466.7	467.1	467.1
160°	471.2	471.1	471.0	470.9	470.8	470.8	471.2	471.7	472.2	472.7	472.7
162.5°	475.7	475.5	475.4	475.3	475.2	475.2	475.6	476.1	476.6	477.1	477.1
165°	481.3	481.1	481.1	481.1	481.1	481.1	481.8	482.4	483.1	483.7	483.6
167.5°	485.9	485.7	485.7	485.6	485.6	485.5	486.2	487.0	487.7	488.4	488.4
170°	488.4	488.1	488.2	488.3	488.4	488.4	489.1	489.8	490.4	491.1	491.1
172.5°	490.2	489.9	490.0	490.1	490.2	490.2	490.9	491.5	492.2	492.8	492.8
175°	492.0	491.9	492.0	492.0	492.1	492.2	492.9	493.7	494.4	495.1	495.0
177.5°	493.1	492.9	493.0	493.2	493.3	493.4	493.9	494.5	495.0	495.5	495.4
180°	494.0	494.0	494.0	494.0	494.0	494.0	494.0	494.0	494.0	494.0	494.0



TEST NUMBER: P333015-930

CATALOG NUMBER: S124RDIW-S350D470U930-4F0-1E-UDD-A

**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°	5.7	5.5	5.5	5.6	5.5	5.5	5.7	5.3	5.3	5.5	5.2
90°	10.6	10.8	10.9	11.1	10.9	10.8	10.6	10.4	10.1	9.6	9.1
92.5°	10.1	10.1	10.2	10.2	10.2	10.1	10.1	10.0	9.8	9.3	8.8
95°	10.4	10.5	10.6	10.7	10.6	10.5	10.4	10.4	10.1	9.6	9.1
97.5°	10.1	10.2	10.3	10.4	10.3	10.2	10.1	10.0	9.9	9.9	9.9
100°	10.1	10.2	10.3	10.4	10.3	10.2	10.1	10.0	10.7	12.1	13.5
102.5°	10.6	10.6	10.6	10.7	10.6	10.6	10.6	10.6	18.1	33.2	48.2
105°	114.1	111.2	108.3	105.3	108.3	111.2	114.1	117.2	118.2	117.5	116.8
107.5°	145.9	146.1	146.4	146.8	146.4	146.1	145.9	145.5	145.2	144.8	144.5
110°	164.0	164.3	164.5	164.8	164.5	164.3	164.0	163.8	163.6	163.5	163.3



TEST NUMBER: P333015-930

CATALOG NUMBER: S124RDIW-S350D470U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	181.9	182.2	182.5	182.8	182.5	182.2	181.9	181.6	181.4	181.5	181.5
115°	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.1	209.0	208.9	208.7
117.5°	235.9	235.9	235.9	235.9	235.9	235.9	235.9	236.0	236.0	236.1	236.1
120°	253.2	253.1	252.9	252.7	252.9	253.1	253.2	253.4	253.4	253.2	253.1
122.5°	269.8	269.6	269.5	269.3	269.5	269.6	269.8	269.9	269.9	269.9	269.8
125°	293.8	293.9	294.0	294.1	294.0	293.9	293.8	293.8	293.6	293.3	293.1
127.5°	316.1	316.0	316.0	315.9	316.0	316.0	316.1	316.2	316.3	316.3	316.3
130°	330.7	330.7	330.7	330.7	330.7	330.7	330.7	330.7	330.7	330.6	330.5
132.5°	344.5	344.5	344.4	344.3	344.4	344.5	344.5	344.5	344.5	344.5	344.4
135°	364.2	364.4	364.5	364.7	364.5	364.4	364.2	364.0	363.9	363.7	363.5
137.5°	382.3	382.2	382.2	382.1	382.2	382.2	382.3	382.3	382.3	382.0	381.9
140°	394.0	394.1	394.2	394.3	394.2	394.1	394.0	394.0	393.8	393.5	393.3
142.5°	404.2	404.3	404.3	404.3	404.3	404.3	404.2	404.2	404.1	404.0	403.7
145°	419.2	419.4	419.6	419.7	419.6	419.4	419.2	419.1	419.0	418.9	418.8
147.5°	432.3	432.4	432.4	432.5	432.4	432.4	432.3	432.2	432.1	432.0	432.0
150°	440.6	440.7	440.8	440.8	440.8	440.7	440.6	440.5	440.4	440.4	440.4
152.5°	448.1	448.0	447.9	447.9	447.9	448.0	448.1	448.1	448.1	447.9	447.8
155°	458.2	458.0	457.7	457.5	457.7	458.0	458.2	458.4	458.4	458.0	457.7
157.5°	466.7	466.3	465.9	465.5	465.9	466.3	466.7	467.1	467.1	466.7	466.3
160°	472.2	471.7	471.2	470.8	471.2	471.7	472.2	472.7	472.7	472.2	471.7
162.5°	476.5	476.0	475.4	474.9	475.4	476.0	476.5	477.1	477.1	476.6	476.1
165°	482.9	482.2	481.4	480.7	481.4	482.2	482.9	483.6	483.7	483.1	482.4
167.5°	487.5	486.7	485.9	485.1	485.9	486.7	487.5	488.4	488.4	487.7	487.0
170°	490.2	489.3	488.5	487.7	488.5	489.3	490.2	491.1	491.1	490.4	489.8
172.5°	491.9	491.0	490.1	489.2	490.1	491.0	491.9	492.8	492.8	492.2	491.5
175°	494.0	493.0	492.0	491.1	492.0	493.0	494.0	495.0	495.1	494.4	493.7
177.5°	494.6	493.8	493.0	492.3	493.0	493.8	494.6	495.4	495.5	495.0	494.5
180°	494.0	494.0	494.0	494.0	494.0	494.0	494.0	494.0	494.0	494.0	494.0



TEST NUMBER: P333015-930

CATALOG NUMBER: S124RDIW-S350D470U930-4F0-1E-UDD-A

**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°	5.1	5.1	5.1	4.7	5.0	4.8	4.8	4.6	4.9	5.2	5.5
90°	8.6	8.2	7.5	6.8	6.2	5.5	4.7	3.8	2.9	2.0	1.1
92.5°	8.3	7.8	7.2	6.5	5.9	5.2	4.9	4.8	4.7	4.7	4.6
95°	8.6	8.2	8.1	8.0	7.9	7.8	9.1	12.0	14.8	17.5	20.3
97.5°	9.8	9.8	18.9	28.0	37.3	46.4	50.1	48.3	46.6	44.9	43.1
100°	14.8	16.2	27.6	38.9	50.2	61.6	66.5	65.1	63.6	62.0	60.6
102.5°	63.3	78.4	79.8	81.3	82.8	84.2	84.5	83.3	82.3	81.2	80.1
105°	116.0	115.3	114.9	114.5	114.1	113.7	113.2	112.7	112.2	111.7	111.2
107.5°	144.1	143.7	143.2	142.6	142.0	141.5	141.1	140.9	140.6	140.4	140.1
110°	163.1	163.0	162.5	162.0	161.4	160.9	160.6	160.4	160.1	159.9	159.6



TEST NUMBER: P333015-930

CATALOG NUMBER: S124RDIW-S350D470U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	181.6	181.6	181.3	181.1	180.9	180.7	180.3	179.9	179.4	179.0	178.6
115°	208.6	208.4	208.5	208.6	208.6	208.7	208.6	208.4	208.1	207.9	207.7
117.5°	236.1	236.2	236.0	235.8	235.6	235.5	235.2	234.9	234.6	234.2	233.9
120°	252.9	252.7	252.8	252.9	253.0	253.1	252.9	252.6	252.3	251.9	251.6
122.5°	269.7	269.6	269.5	269.4	269.2	269.1	269.0	268.8	268.6	268.4	268.2
125°	292.9	292.6	292.8	292.9	293.1	293.3	293.2	292.9	292.5	292.2	291.9
127.5°	316.4	316.4	316.1	315.7	315.3	315.0	314.7	314.6	314.5	314.5	314.4
130°	330.4	330.4	330.1	329.9	329.6	329.4	329.2	329.1	329.1	328.9	328.8
132.5°	344.3	344.2	343.9	343.6	343.3	343.0	342.8	342.6	342.4	342.3	342.2
135°	363.4	363.2	362.9	362.6	362.2	361.9	361.7	361.8	361.9	362.0	362.1
137.5°	381.7	381.6	381.2	380.8	380.4	380.1	379.9	379.8	379.8	379.8	379.8
140°	393.1	392.8	392.6	392.5	392.2	392.1	391.9	391.8	391.6	391.4	391.3
142.5°	403.6	403.4	403.3	403.2	403.1	403.0	402.8	402.5	402.3	401.9	401.6
145°	418.7	418.7	418.7	418.7	418.7	418.7	418.5	418.2	418.0	417.8	417.5
147.5°	431.9	431.9	431.9	432.0	432.1	432.2	432.0	431.5	431.0	430.6	430.2
150°	440.4	440.4	440.5	440.6	440.7	440.8	440.7	440.3	440.0	439.7	439.4
152.5°	447.7	447.5	447.7	447.8	448.0	448.1	448.1	447.8	447.5	447.3	447.0
155°	457.4	457.1	457.3	457.5	457.8	458.0	458.1	458.0	458.0	457.9	457.8
157.5°	465.9	465.5	465.7	465.9	466.3	466.5	466.7	466.8	466.8	466.8	466.9
160°	471.2	470.8	470.8	470.9	471.0	471.1	471.2	471.5	471.7	472.0	472.2
162.5°	475.6	475.2	475.2	475.3	475.4	475.5	475.7	476.0	476.3	476.6	477.0
165°	481.8	481.1	481.1	481.1	481.1	481.1	481.3	481.7	482.1	482.5	482.9
167.5°	486.2	485.5	485.6	485.6	485.7	485.7	485.9	486.4	486.8	487.2	487.6
170°	489.1	488.4	488.4	488.3	488.2	488.1	488.4	488.9	489.3	489.8	490.3
172.5°	490.9	490.2	490.2	490.1	490.0	489.9	490.2	490.6	491.1	491.6	492.1
175°	492.9	492.2	492.1	492.0	492.0	491.9	492.0	492.5	493.0	493.5	494.0
177.5°	493.9	493.4	493.3	493.2	493.0	492.9	493.1	493.5	494.0	494.5	494.9
180°	494.0	494.0	494.0	494.0	494.0	494.0	494.0	494.0	494.0	494.0	494.0



TEST NUMBER: P333015-930

CATALOG NUMBER: S124RDIW-S350D470U930-4F0-1E-UDD-A

**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	5.2	4.8	4.8	5.0	4.8	5.1	5.2	5.3	5.3	5.7
90°	2.0	2.9	3.8	4.7	5.5	6.2	6.8	7.5	8.2	8.6	9.1
92.5°	4.7	4.7	4.8	4.9	5.2	5.9	6.5	7.2	7.8	8.3	8.8
95°	17.5	14.8	12.0	9.1	7.8	7.9	8.0	8.1	8.2	8.6	9.1
97.5°	44.9	46.6	48.3	50.1	46.4	37.3	28.0	18.9	9.8	9.8	9.9
100°	62.0	63.6	65.1	66.5	61.6	50.2	38.9	27.6	16.2	14.8	13.5
102.5°	81.2	82.3	83.3	84.5	84.2	82.8	81.3	79.8	78.4	63.3	48.2
105°	111.7	112.2	112.7	113.2	113.7	114.1	114.5	114.9	115.3	116.0	116.8
107.5°	140.4	140.6	140.9	141.1	141.5	142.0	142.6	143.2	143.7	144.1	144.5
110°	159.9	160.1	160.4	160.6	160.9	161.4	162.0	162.5	163.0	163.1	163.3





TEST NUMBER: P333015-930

CATALOG NUMBER: S124RDIW-S350D470U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	179.0	179.4	179.9	180.3	180.7	180.9	181.1	181.3	181.6	181.6	181.5
115°	207.9	208.1	208.4	208.6	208.7	208.6	208.6	208.5	208.4	208.6	208.7
117.5°	234.2	234.6	234.9	235.2	235.5	235.6	235.8	236.0	236.2	236.1	236.1
120°	251.9	252.3	252.6	252.9	253.1	253.0	252.9	252.8	252.7	252.9	253.1
122.5°	268.4	268.6	268.8	269.0	269.1	269.2	269.4	269.5	269.6	269.7	269.8
125°	292.2	292.5	292.9	293.2	293.3	293.1	292.9	292.8	292.6	292.9	293.1
127.5°	314.5	314.5	314.6	314.7	315.0	315.3	315.7	316.1	316.4	316.4	316.3
130°	328.9	329.1	329.1	329.2	329.4	329.6	329.9	330.1	330.4	330.4	330.5
132.5°	342.3	342.4	342.6	342.8	343.0	343.3	343.6	343.9	344.2	344.3	344.4
135°	362.0	361.9	361.8	361.7	361.9	362.2	362.6	362.9	363.2	363.4	363.5
137.5°	379.8	379.8	379.8	379.9	380.1	380.4	380.8	381.2	381.6	381.7	381.9
140°	391.4	391.6	391.8	391.9	392.1	392.2	392.5	392.6	392.8	393.1	393.3
142.5°	401.9	402.3	402.5	402.8	403.0	403.1	403.2	403.3	403.4	403.6	403.7
145°	417.8	418.0	418.2	418.5	418.7	418.7	418.7	418.7	418.7	418.7	418.8
147.5°	430.6	431.0	431.5	432.0	432.2	432.1	432.0	431.9	431.9	431.9	432.0
150°	439.7	440.0	440.3	440.7	440.8	440.7	440.6	440.5	440.4	440.4	440.4
152.5°	447.3	447.5	447.8	448.1	448.1	448.0	447.8	447.7	447.5	447.7	447.8
155°	457.9	458.0	458.0	458.1	458.0	457.8	457.5	457.3	457.1	457.4	457.7
157.5°	466.8	466.8	466.8	466.7	466.5	466.3	465.9	465.7	465.5	465.9	466.3
160°	472.0	471.7	471.5	471.2	471.1	471.0	470.9	470.8	470.8	471.2	471.7
162.5°	476.6	476.3	476.0	475.7	475.5	475.4	475.3	475.2	475.2	475.6	476.1
165°	482.5	482.1	481.7	481.3	481.1	481.1	481.1	481.1	481.1	481.8	482.4
167.5°	487.2	486.8	486.4	485.9	485.7	485.7	485.6	485.6	485.5	486.2	487.0
170°	489.8	489.3	488.9	488.4	488.1	488.2	488.3	488.4	488.4	489.1	489.8
172.5°	491.6	491.1	490.6	490.2	489.9	490.0	490.1	490.2	490.2	490.9	491.5
175°	493.5	493.0	492.5	492.0	491.9	492.0	492.0	492.1	492.2	492.9	493.7
177.5°	494.5	494.0	493.5	493.1	492.9	493.0	493.2	493.3	493.4	493.9	494.5
180°	494.0	494.0	494.0	494.0	494.0	494.0	494.0	494.0	494.0	494.0	494.0



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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°	5.5	5.4	5.6	5.5	5.5	5.5	5.6
90°	9.6	10.1	10.4	10.6	10.8	10.9	11.1
92.5°	9.3	9.8	10.0	10.1	10.1	10.2	10.2
95°	9.6	10.1	10.4	10.4	10.5	10.6	10.7
97.5°	9.9	9.9	10.0	10.1	10.2	10.3	10.4
100°	12.1	10.7	10.0	10.1	10.2	10.3	10.4
102.5°	33.2	18.1	10.6	10.6	10.6	10.6	10.7
105°	117.5	118.2	117.2	114.1	111.2	108.3	105.3
107.5°	144.8	145.2	145.5	145.9	146.1	146.4	146.8
110°	163.5	163.6	163.8	164.0	164.3	164.5	164.8



TEST NUMBER: P333015-930

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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	181.5	181.4	181.6	181.9	182.2	182.5	182.8
115°	208.9	209.0	209.1	209.1	209.1	209.1	209.1
117.5°	236.1	236.0	236.0	235.9	235.9	235.9	235.9
120°	253.2	253.4	253.4	253.2	253.1	252.9	252.7
122.5°	269.9	269.9	269.9	269.8	269.6	269.5	269.3
125°	293.3	293.6	293.8	293.8	293.9	294.0	294.1
127.5°	316.3	316.3	316.2	316.1	316.0	316.0	315.9
130°	330.6	330.7	330.7	330.7	330.7	330.7	330.7
132.5°	344.5	344.5	344.5	344.5	344.5	344.4	344.3
135°	363.7	363.9	364.0	364.2	364.4	364.5	364.7
137.5°	382.0	382.3	382.3	382.3	382.2	382.2	382.1
140°	393.5	393.8	394.0	394.0	394.1	394.2	394.3
142.5°	404.0	404.1	404.2	404.2	404.3	404.3	404.3
145°	418.9	419.0	419.1	419.2	419.4	419.6	419.7
147.5°	432.0	432.1	432.2	432.3	432.4	432.4	432.5
150°	440.4	440.4	440.5	440.6	440.7	440.8	440.8
152.5°	447.9	448.1	448.1	448.1	448.0	447.9	447.9
155°	458.0	458.4	458.4	458.2	458.0	457.7	457.5
157.5°	466.7	467.1	467.1	466.7	466.3	465.9	465.5
160°	472.2	472.7	472.7	472.2	471.7	471.2	470.8
162.5°	476.6	477.1	477.1	476.5	476.0	475.4	474.9
165°	483.1	483.7	483.6	482.9	482.2	481.4	480.7
167.5°	487.7	488.4	488.4	487.5	486.7	485.9	485.1
170°	490.4	491.1	491.1	490.2	489.3	488.5	487.7
172.5°	492.2	492.8	492.8	491.9	491.0	490.1	489.2
175°	494.4	495.1	495.0	494.0	493.0	492.0	491.1
177.5°	495.0	495.5	495.4	494.6	493.8	493.0	492.3
180°	494.0	494.0	494.0	494.0	494.0	494.0	494.0

(END OF REPORT)