

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1000455

Luminaire Tested: SA4XXRDP-B350DB2750-4F0-XX-W2A-A_5000K

Issue Date: 5/2/2025

Test Information

Test Method: LM-79-2019
Report Number: P1000455
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-31)
Test Lab: INNOVATION CENTER
Issue Date: 5/2/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA4XXRDP-B350DB2750-4F0-XX-W2A-A_5000K
Description: Define 4 Regressed Direct Recessed with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

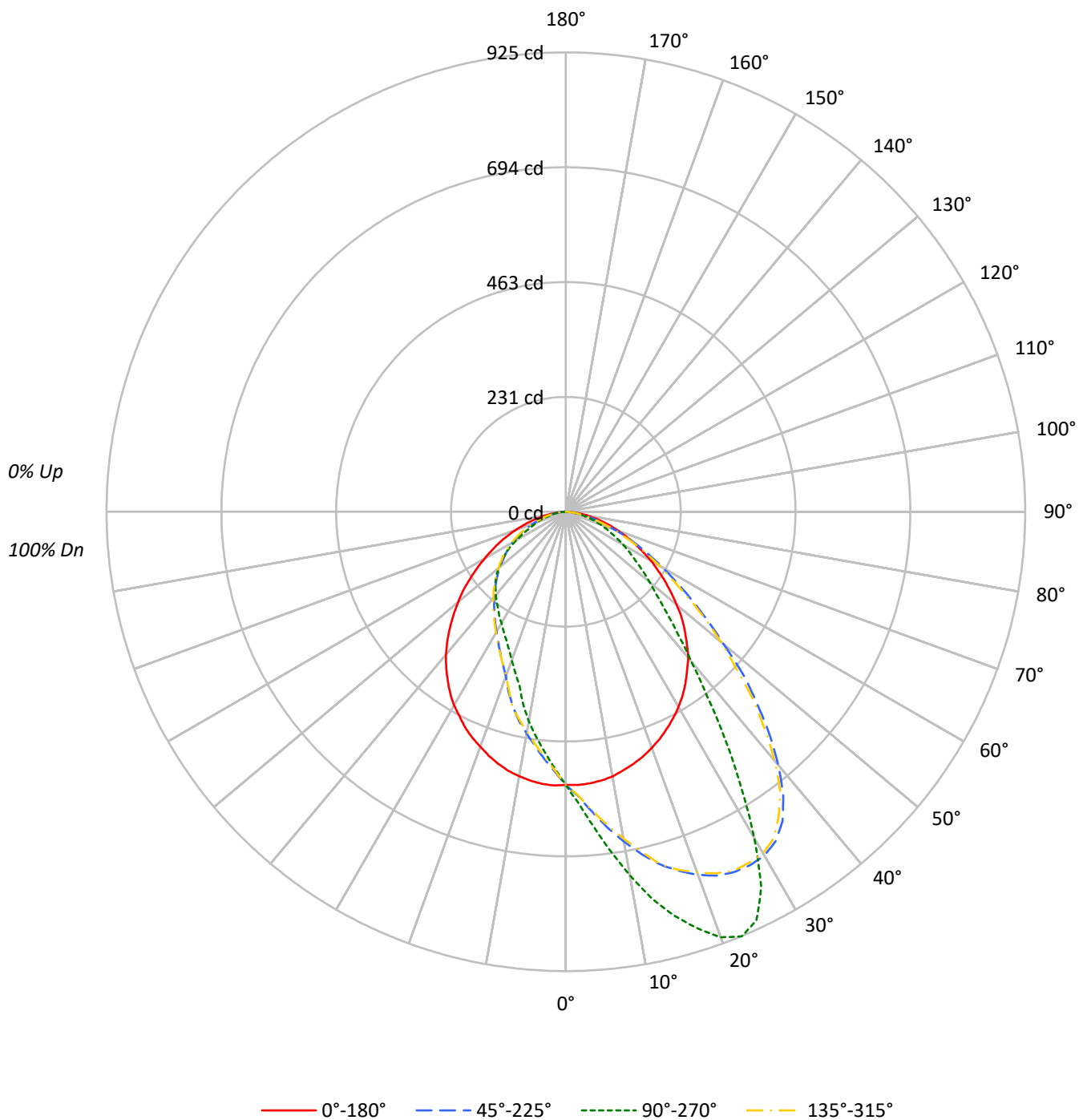
Lumens per Lamp: N/A
Luminaire Lumens: 1390.0 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 13
Input Voltage (V):
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: 24 FT

TEST NUMBER: P1000455

CATALOG NUMBER: SA4XXRDP-B350DB2750-4F0-XX-W2A-A_5000K

Luminous Intensity Polar Plot



TEST NUMBER: P1000455

CATALOG NUMBER: SA4XXRDP-B350DB2750-4F0-XX-W2A-A_5000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74		
3	93	83	76	70	90	81	75	69	79	73	68	76	71	67	73	69	65	63		
4	85	74	66	60	83	73	65	59	71	64	59	68	63	58	66	61	57	55		
5	79	67	58	52	77	66	58	52	64	57	51	62	56	51	60	55	50	48		
6	73	61	52	46	71	60	52	46	58	51	46	56	50	45	55	49	45	43		
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38		
8	64	51	42	37	62	50	42	37	49	42	37	47	41	36	46	40	36	34		
9	59	47	39	33	58	46	38	33	45	38	33	44	38	33	43	37	33	31		
10	56	43	35	30	55	43	35	30	42	35	30	41	34	30	40	34	30	28		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4484	4484	4484	4484
5°	4494	5201	4501	3975
10°	4480	6153	4476	3548
15°	4436	7107	4436	3048
20°	4391	7913	4368	2757
25°	4333	8169	4313	2560
30°	4272	7150	4239	2441
35°	4181	5567	4128	2368
40°	4080	4174	3999	2330
45°	3904	3296	3807	2310
50°	3693	2782	3591	2243
55°	3465	2425	3351	2123
60°	3237	2182	3092	1879
65°	2950	1924	2856	1615
70°	2694	1733	2568	1457
75°	2417	1452	2246	1241
80°	2080	1226	1892	1165
85°	1703	1039	1413	1039

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 35°

Vertical Angle: 45°

Luminance: 6704 cd/sqm

TEST NUMBER: P1000455

CATALOG NUMBER: SA4XXRDP-B350DB2750-4F0-XX-W2A-A_5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.2	3.8
10°-20°	160.8	11.6
20°-30°	251.9	18.1
30°-40°	279.7	20.1
40°-50°	247.8	17.8
50°-60°	193.1	13.9
60°-70°	126.3	9.1
70°-80°	62.0	4.5
80°-90°	15.1	1.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	465.9	33.5
0°-40°	745.6	53.6
0°-60°	1186.6	85.4
0°-90°	1390.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1390.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	550	550	550	550	550	
5°	549	635	550	486	549	52
15°	526	842	526	361	526	148
25°	482	908	479	284	482	222
35°	420	559	415	238	420	263
45°	338	286	330	200	338	261
55°	244	171	236	149	244	218
65°	153	100	148	84	153	152
75°	77	46	71	39	77	81
85°	18	11	15	11	18	22
90°	0	0	0	0	0	

TEST NUMBER: P1000455

CATALOG NUMBER: SA4XXRDP-B350DB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9
2.5°	550.8	555.6	558.3	560.5	564.9	566.7	570.2	571.1	574.7	574.2	572.9
5°	549.0	557.4	563.6	570.2	578.2	582.7	587.5	594.6	598.2	603.0	606.1
7.5°	545.9	557.4	567.6	577.8	590.6	597.7	603.9	615.0	624.3	632.3	641.1
10°	541.0	555.6	570.7	584.4	602.2	610.6	619.9	636.3	649.1	660.2	674.4
12.5°	533.5	553.9	570.7	589.3	611.9	623.4	635.8	655.3	670.4	688.6	706.3
15°	525.5	548.1	570.2	594.6	620.3	633.6	646.0	672.2	695.2	716.0	735.5
17.5°	516.6	541.4	565.8	592.8	623.9	640.3	654.9	686.3	711.6	738.6	758.1
20°	506.0	533.0	560.9	591.1	626.1	644.2	660.6	696.5	724.4	753.7	778.1
22.5°	494.5	523.7	554.3	587.1	623.4	643.4	662.4	701.0	733.3	760.3	793.1
25°	481.6	512.6	544.1	578.7	619.4	641.1	660.6	698.7	733.3	768.8	800.7
27.5°	468.3	500.2	533.0	569.4	611.0	632.3	654.4	691.2	731.5	770.1	802.4
30°	453.7	484.7	519.3	553.9	598.2	619.4	642.0	681.9	725.8	764.3	799.3
32.5°	437.8	469.7	502.5	538.3	581.8	604.8	625.6	670.8	715.6	753.7	786.5
35°	420.0	450.2	481.2	518.0	560.9	581.8	606.6	653.5	698.7	739.1	760.3
37.5°	401.0	429.8	458.6	494.9	536.1	561.4	585.8	633.2	681.0	708.0	719.1
40°	383.3	408.5	433.8	468.8	510.4	536.6	561.4	610.6	652.7	673.5	665.1
42.5°	360.7	386.8	409.4	441.8	483.8	508.2	533.5	584.4	618.5	627.0	606.1
45°	338.5	360.2	381.9	413.4	457.7	478.5	505.6	553.0	581.3	573.8	543.2
47.5°	316.8	334.5	354.9	385.5	425.4	450.2	475.4	516.6	536.6	525.9	483.4
50°	291.1	308.8	330.1	356.7	395.2	419.2	439.1	477.2	492.3	466.1	414.7
52.5°	266.7	282.2	300.4	325.2	362.0	383.7	405.4	438.2	443.1	413.0	358.9
55°	243.7	256.1	275.2	295.1	328.8	351.8	366.9	394.8	393.5	355.8	309.3
57.5°	219.8	231.3	244.1	265.0	296.9	314.1	330.5	354.9	342.1	310.2	264.1
60°	198.5	205.1	218.0	237.9	265.0	280.0	292.9	306.2	295.1	260.5	225.1
62.5°	175.0	182.6	191.9	207.8	231.7	245.9	255.2	261.0	249.5	222.9	190.5
65°	152.9	159.5	169.3	183.4	201.6	212.2	217.1	221.1	214.9	184.8	159.1
67.5°	132.9	137.4	146.2	155.5	175.0	177.7	184.3	186.1	173.7	150.6	130.3
70°	113.0	117.4	121.4	132.5	141.3	146.2	147.5	147.5	135.1	120.1	103.2
72.5°	94.4	97.0	101.0	108.6	113.4	117.0	118.7	116.5	105.0	92.6	80.2
75°	76.7	78.0	81.5	86.4	90.4	89.1	88.6	86.0	77.5	68.7	61.6
77.5°	58.9	59.8	63.8	65.1	65.1	66.5	64.7	62.0	54.9	48.3	45.2
80°	44.3	45.6	46.1	47.0	46.1	46.1	44.8	40.3	36.8	33.7	31.5
82.5°	30.6	31.5	31.9	30.6	31.5	30.1	27.9	24.8	22.6	22.2	21.3
85°	18.2	18.6	18.2	18.2	16.8	16.4	14.6	14.2	13.3	13.3	12.8
87.5°	8.9	8.4	7.5	6.6	6.6	6.2	6.6	5.8	6.6	6.2	5.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1000455

CATALOG NUMBER: SA4XXRDP-B350DB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9
2.5°	576.5	581.3	581.8	586.2	584.9	582.7	586.6	584.0	589.3	587.5	589.7
5°	610.1	616.8	622.5	626.1	632.3	631.0	637.6	635.4	640.3	635.4	641.6
7.5°	649.6	660.6	666.4	675.7	678.4	678.8	686.8	688.6	691.7	688.6	692.1
10°	688.1	701.4	714.7	722.2	727.1	733.7	740.8	743.9	746.2	743.1	745.3
12.5°	723.1	743.9	758.6	773.6	777.2	782.9	790.5	789.6	798.4	796.7	800.7
15°	755.5	778.5	796.2	808.2	817.9	822.8	837.0	837.9	837.4	841.9	839.2
17.5°	784.3	803.8	829.0	844.5	856.5	856.5	864.5	880.9	879.5	879.1	881.7
20°	807.7	829.9	853.4	879.5	889.3	891.0	902.1	910.5	911.9	911.9	911.9
22.5°	825.5	851.6	876.9	895.5	903.0	909.2	919.0	924.3	926.0	925.2	926.0
25°	834.3	859.1	884.8	901.7	906.1	909.7	910.5	913.6	913.2	907.9	911.0
27.5°	836.1	860.0	876.9	881.3	879.1	876.9	862.7	864.0	860.0	852.1	855.2
30°	828.1	841.0	840.5	826.8	822.8	813.5	800.7	781.6	766.1	759.4	761.7
32.5°	799.3	799.3	783.4	752.4	738.6	721.8	698.7	681.5	661.1	656.7	665.1
35°	759.4	736.8	707.6	666.8	646.0	633.6	593.7	581.3	564.0	559.2	563.2
37.5°	697.4	659.8	617.2	579.1	561.4	539.2	504.2	486.5	474.1	465.7	469.7
40°	627.9	582.2	537.9	490.9	471.4	453.3	427.1	411.2	391.2	392.1	393.5
42.5°	561.4	507.8	458.1	414.7	396.1	381.1	362.9	343.4	336.3	334.1	331.9
45°	490.9	433.8	387.3	354.9	338.1	323.9	307.1	296.0	287.6	285.8	288.0
47.5°	424.5	376.2	331.9	301.7	288.0	280.9	267.6	257.4	252.1	247.7	250.3
50°	364.2	319.0	283.6	258.3	248.6	243.7	231.3	226.0	220.7	219.3	218.9
52.5°	314.6	276.0	245.5	225.1	217.6	214.9	205.6	198.1	193.6	195.0	195.8
55°	269.4	236.6	212.7	196.3	190.1	187.0	180.3	175.0	171.9	170.6	171.5
57.5°	229.5	201.2	183.9	170.6	165.7	164.4	157.3	155.5	153.3	152.0	152.0
60°	193.2	173.2	157.3	149.8	144.4	143.1	137.8	135.6	135.1	133.8	132.9
62.5°	162.6	146.2	135.1	127.2	124.9	124.5	121.0	118.3	117.0	116.1	116.1
65°	136.0	124.1	114.8	109.0	107.2	106.3	102.4	101.5	100.6	99.7	99.3
67.5°	113.4	102.8	96.1	92.2	89.9	90.4	88.2	86.4	86.4	86.0	85.5
70°	91.7	85.1	79.3	77.1	76.2	75.3	74.4	73.1	72.7	72.7	72.7
72.5°	72.2	67.8	64.7	63.4	62.5	61.6	60.7	60.7	60.7	60.3	60.3
75°	55.4	53.6	51.4	50.1	50.1	51.0	49.6	48.3	47.0	46.1	46.5
77.5°	41.6	40.8	39.4	37.2	37.7	36.8	36.8	35.9	36.3	36.3	35.4
80°	30.6	29.2	28.8	27.5	27.9	27.5	27.0	27.0	26.1	26.1	26.1
82.5°	21.3	19.9	19.9	19.5	19.1	19.1	18.6	18.6	19.1	18.2	18.2
85°	12.8	12.4	12.4	11.5	11.5	11.5	11.5	12.0	11.5	11.1	11.1
87.5°	5.8	6.2	5.8	5.3	5.3	5.3	4.9	4.9	4.4	4.9	4.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1000455

CATALOG NUMBER: SA4XXRDP-B350DB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9
2.5°	591.1	588.0	587.5	587.5	582.7	585.3	580.0	574.2	571.6	571.6	566.7
5°	640.3	637.2	634.1	629.2	629.2	626.5	618.1	609.7	603.5	598.2	592.4
7.5°	690.8	687.7	678.8	673.9	676.6	671.3	660.2	646.0	635.4	627.0	615.0
10°	745.7	737.3	732.9	730.2	720.9	715.1	702.3	681.5	668.2	657.1	641.6
12.5°	790.5	793.1	776.3	777.6	768.3	760.3	740.4	720.5	700.5	685.0	662.0
15°	838.8	830.8	820.6	812.6	809.5	799.8	782.9	756.3	734.6	710.3	684.1
17.5°	876.9	870.7	860.9	853.4	846.7	823.3	809.1	785.6	755.9	732.0	700.1
20°	909.2	903.4	889.7	884.8	872.9	856.0	835.7	799.3	772.7	746.6	715.6
22.5°	922.9	917.2	905.2	899.0	891.5	875.1	855.6	821.0	788.2	755.5	722.7
25°	911.4	911.4	905.7	903.4	896.8	882.2	862.2	833.0	798.0	762.5	723.6
27.5°	855.6	866.7	870.7	872.9	872.9	873.3	859.6	831.2	797.1	762.5	721.8
30°	775.0	793.6	810.0	814.8	823.3	832.6	838.3	824.6	794.0	757.7	716.9
32.5°	673.5	697.4	728.0	735.5	747.0	775.0	790.5	796.2	779.4	747.5	704.1
35°	572.5	602.6	621.2	644.2	654.9	696.1	730.6	751.5	747.5	728.4	689.0
37.5°	484.3	501.6	524.2	548.5	569.8	609.2	652.2	692.5	708.9	699.6	669.9
40°	399.7	420.0	447.1	467.0	481.6	521.1	574.2	618.1	654.0	659.8	641.6
42.5°	339.8	360.2	376.6	398.3	409.9	448.0	494.9	549.9	592.4	615.0	607.0
45°	293.8	306.2	319.5	331.9	346.0	379.7	423.1	483.4	531.3	563.2	566.3
47.5°	253.4	264.5	276.0	287.6	295.5	321.7	361.6	410.7	463.0	506.9	524.2
50°	225.1	230.4	238.8	245.5	254.8	277.4	309.3	351.8	407.2	454.6	477.2
52.5°	197.2	203.8	210.5	216.2	222.4	238.4	267.6	304.4	352.3	401.0	428.9
55°	173.7	179.0	185.2	189.2	192.7	206.9	229.1	257.4	298.6	344.7	379.3
57.5°	154.6	156.9	162.2	164.4	168.4	179.9	195.8	221.1	254.3	299.1	327.4
60°	133.8	138.2	142.2	144.0	147.1	155.1	166.2	189.6	218.4	251.2	283.6
62.5°	117.0	118.7	121.8	124.1	126.3	134.7	144.0	161.7	183.4	210.9	240.6
65°	101.5	102.4	104.1	107.2	108.6	114.8	120.1	132.9	153.3	174.1	203.8
67.5°	85.5	86.4	88.6	90.4	91.7	95.7	101.5	110.8	121.8	144.9	161.3
70°	73.1	73.1	74.4	75.3	76.7	78.4	81.5	88.6	98.8	113.4	128.5
72.5°	61.1	61.1	61.1	62.5	62.5	63.8	65.6	70.5	77.5	89.1	98.8
75°	47.4	47.9	48.7	48.7	49.2	51.0	52.3	53.6	57.2	64.7	73.6
77.5°	35.9	36.8	37.2	36.3	37.2	37.2	39.0	40.8	42.5	44.8	51.4
80°	26.6	27.0	26.1	26.6	26.6	27.5	28.4	27.9	28.8	31.5	33.2
82.5°	17.7	18.2	18.2	18.2	18.2	19.5	19.5	19.1	19.5	19.9	20.4
85°	11.1	10.6	10.6	11.1	10.6	10.6	11.1	11.5	11.1	11.5	12.0
87.5°	4.9	4.9	4.9	4.9	4.4	4.4	4.9	4.4	4.9	4.4	4.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1000455

CATALOG NUMBER: SA4XXRDP-B350DB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9
2.5°	564.0	561.8	560.5	560.1	556.1	553.9	552.5	551.6	550.3	546.8	543.7
5°	585.3	579.1	576.0	572.5	566.3	559.2	553.4	549.9	545.4	538.3	531.7
7.5°	605.3	595.9	589.7	584.9	574.2	562.7	553.4	545.9	537.5	527.7	518.4
10°	626.1	611.0	603.0	595.5	580.0	564.9	551.6	540.6	528.6	515.7	505.6
12.5°	642.5	622.5	613.7	603.0	584.0	566.3	549.4	534.4	518.9	505.1	490.5
15°	661.5	636.7	626.5	612.8	586.6	563.6	541.9	525.5	509.5	489.2	473.7
17.5°	672.6	643.8	629.2	617.2	588.9	560.9	535.7	515.3	496.7	476.3	459.9
20°	683.7	650.9	634.5	617.7	584.0	554.3	527.7	503.3	483.8	461.7	444.9
22.5°	687.2	649.1	631.8	616.3	580.9	547.7	517.1	492.3	469.7	447.5	428.5
25°	687.2	648.7	628.3	608.4	571.1	537.0	506.4	479.4	454.2	432.0	413.0
27.5°	680.1	639.8	618.5	600.4	561.8	525.1	493.6	463.9	439.5	417.4	395.7
30°	671.3	627.0	605.7	584.0	546.8	511.8	477.6	450.2	424.5	399.2	379.7
32.5°	660.2	613.2	589.7	567.6	528.2	491.8	460.4	433.3	409.0	382.8	361.1
35°	644.2	592.8	566.7	547.2	509.1	471.4	441.3	414.7	391.2	364.2	340.7
37.5°	623.9	574.2	547.7	523.7	484.3	449.7	421.4	395.7	372.6	347.8	321.7
40°	599.9	548.1	525.1	499.8	458.1	425.4	398.8	375.7	352.7	329.2	304.0
42.5°	572.9	521.5	495.8	471.4	431.6	399.2	374.4	353.6	332.3	310.6	283.6
45°	540.6	492.3	467.5	444.4	405.9	372.6	350.0	330.1	311.9	289.8	265.9
47.5°	504.2	462.1	436.9	412.1	374.4	345.6	323.5	306.6	291.1	269.0	247.2
50°	468.8	427.1	406.8	381.5	346.9	319.9	297.3	283.1	271.2	249.5	230.0
52.5°	424.0	392.6	373.1	351.4	318.1	290.7	272.9	260.5	246.4	229.5	212.2
55°	384.6	355.4	339.8	319.5	286.7	262.3	247.2	235.7	224.6	209.6	195.8
57.5°	339.8	321.7	306.2	288.4	256.1	235.3	222.0	212.2	202.0	189.6	178.6
60°	292.9	284.5	269.4	255.2	227.7	209.6	198.5	189.6	179.9	169.7	160.4
62.5°	251.2	246.4	237.5	226.4	200.7	185.2	174.1	167.5	160.4	151.1	142.2
65°	211.8	209.6	201.2	193.2	175.5	161.7	152.0	148.0	140.0	132.9	124.9
67.5°	176.8	174.1	169.3	165.7	150.6	137.8	132.9	127.6	121.0	115.6	109.0
70°	141.3	140.9	137.8	133.4	125.4	116.1	111.2	107.7	101.0	97.0	92.2
72.5°	109.9	112.1	109.4	107.7	102.4	95.7	91.3	89.1	83.7	80.6	77.1
75°	82.0	83.7	85.1	82.0	80.6	77.5	73.6	71.3	68.7	64.2	62.9
77.5°	55.8	59.8	59.8	60.7	61.1	59.4	56.3	54.5	51.4	50.5	48.7
80°	36.8	40.3	40.8	41.6	43.0	43.0	40.8	40.3	37.2	36.8	35.4
82.5°	21.3	24.4	26.1	27.5	27.0	28.8	27.0	26.6	24.8	24.8	23.9
85°	11.5	12.0	12.8	13.7	14.6	15.5	15.5	15.1	14.6	14.2	13.3
87.5°	4.4	4.4	4.9	4.4	4.9	5.8	6.2	6.2	5.8	5.3	4.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1000455

CATALOG NUMBER: SA4XXRDP-B350DB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9
2.5°	541.0	540.1	539.2	535.7	532.6	527.3	522.8	521.1	520.6	521.1	519.7
5°	525.5	525.1	522.0	515.7	510.0	503.8	499.4	494.9	492.3	492.3	489.2
7.5°	510.9	507.8	505.1	497.1	490.5	482.1	475.4	471.4	469.2	464.4	464.4
10°	495.4	490.9	487.4	479.9	470.1	461.7	453.3	448.4	444.4	440.9	439.5
12.5°	479.9	476.3	469.7	461.7	451.9	441.3	432.5	428.9	419.6	412.1	412.5
15°	465.2	457.3	454.2	442.6	431.1	420.9	408.1	397.9	390.4	385.5	379.3
17.5°	448.8	440.9	435.1	425.4	410.3	394.3	381.9	368.2	360.7	352.3	348.3
20°	430.7	424.0	419.6	404.1	385.9	366.9	353.1	344.7	336.3	330.1	326.6
22.5°	415.2	406.8	401.4	380.6	360.7	341.6	331.0	323.9	316.8	311.5	309.7
25°	395.2	390.4	377.5	359.3	335.0	322.1	312.8	303.5	299.5	296.0	292.0
27.5°	378.8	366.9	358.0	334.1	319.0	304.4	295.1	288.0	283.1	279.6	276.5
30°	358.5	347.4	335.0	315.0	301.3	287.6	279.1	273.4	268.1	265.9	263.2
32.5°	337.2	327.0	315.0	299.1	282.2	271.6	265.0	258.8	255.2	253.0	249.9
35°	318.1	305.3	297.3	282.2	268.5	256.5	250.3	245.0	241.0	240.2	239.7
37.5°	297.8	288.0	280.5	265.0	253.4	243.3	237.5	231.7	229.5	229.1	227.3
40°	280.0	271.6	264.5	249.9	237.5	228.2	223.8	220.2	218.0	218.0	217.6
42.5°	264.5	255.7	248.6	235.3	224.2	215.8	210.9	207.4	206.5	206.9	206.5
45°	247.2	239.7	232.6	218.9	209.6	203.4	198.1	196.3	195.0	195.4	195.8
47.5°	230.8	224.6	217.6	206.5	195.8	189.2	186.1	184.3	184.3	184.3	185.2
50°	216.2	209.1	202.9	191.4	181.7	176.3	173.7	171.5	171.9	172.4	172.8
52.5°	198.9	192.7	188.3	176.8	169.7	163.1	160.0	160.4	160.0	160.0	160.8
55°	183.9	177.7	173.2	162.6	155.5	151.1	148.4	147.1	147.5	146.7	148.4
57.5°	167.0	161.7	158.6	148.4	142.2	138.2	136.0	133.8	134.7	134.3	133.8
60°	152.4	146.2	141.3	134.3	128.9	124.1	122.7	120.5	121.4	120.5	120.1
62.5°	135.6	130.7	127.2	120.1	115.6	111.7	108.6	107.2	106.8	105.5	104.1
65°	118.7	116.1	112.5	105.5	101.0	97.9	96.1	94.8	94.4	90.8	86.8
67.5°	103.2	101.5	97.9	92.6	88.6	85.5	82.9	80.6	78.0	75.3	73.1
70°	88.6	86.0	83.7	78.9	75.3	72.2	69.6	66.9	65.6	62.9	62.0
72.5°	74.4	71.8	69.6	65.1	62.0	58.9	58.0	54.9	53.6	53.2	53.2
75°	59.8	57.6	56.3	52.3	49.6	47.4	46.1	45.2	44.3	43.4	42.1
77.5°	45.6	44.3	43.4	40.8	38.5	37.2	36.8	33.7	32.8	31.9	31.0
80°	33.2	32.8	31.9	29.7	28.8	25.7	25.7	24.8	24.4	24.4	24.4
82.5°	22.6	21.7	21.3	19.1	18.6	18.2	17.7	17.3	17.7	17.3	17.7
85°	12.0	11.5	11.1	11.1	11.1	11.1	11.1	11.1	11.1	10.6	11.1
87.5°	4.4	4.4	4.4	4.4	4.0	4.4	4.4	4.0	4.4	4.4	4.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1000455

CATALOG NUMBER: SA4XXRDP-B350DB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9
2.5°	519.7	521.5	519.3	520.6	517.5	517.1	517.5	517.5	518.0	518.4	518.9
5°	490.5	490.1	487.4	485.6	484.3	485.6	486.5	487.4	486.5	487.4	487.8
7.5°	463.0	461.7	460.4	457.3	458.1	457.3	459.9	458.6	458.6	460.8	462.6
10°	438.7	436.0	435.1	431.6	428.9	428.5	431.6	432.9	434.2	435.1	438.7
12.5°	407.2	403.2	400.1	401.4	393.9	397.0	397.9	396.1	401.4	407.6	404.1
15°	373.5	374.0	367.8	365.5	359.3	361.1	361.6	366.0	370.4	370.0	375.3
17.5°	348.7	346.0	340.7	340.3	337.6	339.0	338.5	342.1	340.7	342.9	347.4
20°	325.7	323.9	319.5	317.7	318.6	317.7	318.1	318.6	319.9	324.8	323.9
22.5°	307.5	305.3	305.3	303.1	300.4	299.5	301.7	303.1	304.8	305.7	307.9
25°	291.5	289.8	287.6	286.2	284.0	284.5	285.8	287.6	288.9	290.7	292.4
27.5°	275.2	275.2	272.9	272.5	271.6	271.2	272.9	273.8	273.8	275.2	276.9
30°	262.3	262.3	260.1	259.6	259.2	259.2	260.5	261.0	261.4	262.7	263.6
32.5°	249.9	249.5	248.6	249.0	248.6	249.0	249.0	249.5	250.3	250.8	252.6
35°	238.4	238.8	237.9	237.9	237.5	237.9	238.8	239.3	239.7	240.6	240.6
37.5°	227.3	228.2	227.7	229.1	229.1	229.1	229.1	230.0	230.0	230.0	229.5
40°	217.6	217.6	217.1	218.0	218.9	218.9	219.3	219.3	219.8	219.8	219.3
42.5°	206.5	207.4	208.7	209.1	210.0	209.6	210.9	210.5	210.9	210.0	209.1
45°	196.3	196.3	198.1	199.8	200.3	200.3	200.3	201.2	200.3	198.9	198.5
47.5°	185.2	186.1	187.0	189.2	189.6	189.6	189.6	189.6	188.8	188.8	188.8
50°	174.1	174.6	175.0	175.9	177.2	176.8	176.8	176.8	178.6	176.8	177.2
52.5°	160.8	161.3	161.7	163.5	163.1	163.1	163.5	163.5	164.8	164.4	163.5
55°	147.5	147.5	148.4	148.4	148.4	149.3	149.8	150.6	150.2	150.6	151.1
57.5°	134.3	133.4	132.9	132.9	134.3	133.8	134.3	134.3	136.0	136.9	137.4
60°	118.7	118.7	118.3	115.6	115.6	115.2	116.5	117.4	118.3	122.3	121.8
62.5°	102.8	101.0	99.3	99.7	97.0	98.4	97.5	98.4	101.0	104.1	104.6
65°	86.8	85.5	83.7	83.3	82.4	83.7	83.3	83.7	85.1	86.8	89.1
67.5°	72.7	72.2	71.3	70.9	70.9	70.9	71.8	71.8	72.2	73.6	74.9
70°	62.0	61.6	62.0	61.1	61.6	61.1	61.6	62.0	62.5	62.9	64.2
72.5°	52.3	52.3	52.3	51.4	52.3	51.8	51.8	52.3	52.7	53.2	54.1
75°	41.6	40.8	39.9	39.0	38.5	39.4	39.9	39.4	40.8	42.5	42.5
77.5°	31.5	31.0	31.0	31.0	31.5	31.0	31.9	31.5	31.9	31.9	32.8
80°	24.4	23.9	24.4	24.4	23.9	24.8	24.4	24.4	24.8	25.3	24.8
82.5°	17.7	18.2	17.7	17.7	17.7	18.6	17.7	17.7	17.7	18.2	18.2
85°	11.1	11.1	11.1	11.1	11.5	11.1	11.5	11.1	12.0	11.5	11.5
87.5°	4.0	4.4	4.9	4.9	4.9	4.9	4.4	4.9	5.3	4.9	5.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1000455

CATALOG NUMBER: SA4XXRDP-B350DB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9
2.5°	520.6	522.8	522.0	518.9	520.2	522.8	525.5	529.0	531.3	533.0	533.9
5°	490.1	494.0	493.2	493.2	494.9	499.4	503.8	511.3	514.0	517.1	521.5
7.5°	463.0	466.1	468.8	469.7	472.3	478.1	483.8	492.3	498.9	502.5	505.1
10°	439.1	441.3	445.3	447.5	450.2	457.3	465.7	474.5	481.2	487.4	490.9
12.5°	408.5	417.4	422.7	426.2	429.8	440.4	447.1	456.8	464.8	470.6	475.9
15°	374.4	385.0	388.1	401.9	410.7	419.2	429.3	440.9	448.4	455.0	462.1
17.5°	345.6	353.1	356.7	371.3	378.8	392.1	406.8	421.4	432.9	437.8	444.9
20°	327.4	331.4	338.5	343.4	351.4	366.9	382.8	400.5	417.8	422.7	429.8
22.5°	308.8	314.1	319.0	325.7	331.9	342.5	358.5	378.0	396.6	405.4	413.8
25°	292.0	297.3	300.4	307.5	313.3	323.9	335.0	354.9	377.1	384.6	397.9
27.5°	278.7	281.8	287.1	290.2	296.9	306.6	316.8	331.9	353.6	366.4	379.3
30°	265.4	267.6	272.1	276.5	281.4	288.0	299.5	314.1	334.1	345.2	358.0
32.5°	252.1	255.7	258.3	261.4	266.7	274.7	282.7	296.9	312.8	325.2	338.1
35°	241.0	242.4	245.9	249.5	253.0	260.1	268.5	282.2	296.4	306.2	317.7
37.5°	229.1	231.3	233.9	235.3	241.0	245.5	254.3	265.0	281.8	288.0	299.5
40°	219.8	219.3	222.0	224.2	226.9	233.9	239.3	250.8	264.1	273.8	280.9
42.5°	208.2	208.2	209.1	211.8	215.3	219.8	226.0	235.7	249.5	256.5	265.0
45°	198.9	197.6	198.1	199.8	202.0	206.5	212.7	221.1	234.8	240.6	249.5
47.5°	187.9	186.5	186.5	188.3	190.1	193.2	198.1	207.8	218.9	226.4	233.1
50°	175.5	175.9	175.5	176.8	177.7	180.8	186.1	194.1	204.3	210.5	218.0
52.5°	163.9	163.1	162.6	163.5	165.3	167.5	173.2	180.3	190.1	196.3	202.9
55°	149.8	150.6	150.6	150.6	153.3	154.2	158.6	165.7	175.5	180.3	186.5
57.5°	136.9	136.5	137.4	136.9	139.1	142.2	145.8	151.1	160.8	165.7	171.5
60°	122.7	123.2	123.6	123.6	125.4	128.5	132.5	137.4	145.3	150.2	155.5
62.5°	105.5	107.7	109.9	110.8	113.4	115.6	118.3	123.6	130.7	134.3	139.1
65°	89.1	92.2	95.3	97.5	99.3	101.5	105.0	109.9	115.6	119.2	124.1
67.5°	74.9	77.1	81.1	83.3	86.8	89.5	91.7	95.7	102.8	104.1	108.1
70°	64.7	65.6	67.3	69.1	73.1	75.3	78.0	82.0	87.3	90.4	92.6
72.5°	54.5	54.9	55.8	57.6	59.4	62.0	65.1	68.7	73.6	74.9	78.0
75°	43.4	46.1	46.1	47.4	48.7	50.1	52.7	56.3	59.4	61.6	63.4
77.5°	32.3	33.7	34.6	36.8	38.5	39.9	41.6	44.3	46.1	47.9	49.2
80°	25.3	25.7	26.1	26.1	27.0	28.8	30.6	32.3	34.6	35.4	36.8
82.5°	18.6	18.6	18.6	19.5	19.9	20.4	20.4	21.3	23.5	24.4	25.7
85°	12.0	12.0	12.0	12.0	12.4	12.8	13.3	13.7	13.7	13.7	14.6
87.5°	4.9	5.8	5.3	5.8	5.8	5.8	5.8	6.2	6.2	6.6	6.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1000455

CATALOG NUMBER: SA4XXRDP-B350DB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	549.9	549.9	549.9	549.9
2.5°	537.5	540.1	544.6	550.8
5°	525.1	532.6	539.7	549.0
7.5°	514.0	522.8	532.6	545.9
10°	501.1	512.2	524.6	541.0
12.5°	486.1	501.6	515.7	533.5
15°	475.0	486.5	504.7	525.5
17.5°	459.5	475.0	493.2	516.6
20°	444.9	461.3	481.6	506.0
22.5°	429.3	448.0	468.3	494.5
25°	413.4	433.3	453.7	481.6
27.5°	398.8	416.9	440.0	468.3
30°	381.1	401.9	424.0	453.7
32.5°	363.8	385.5	408.1	437.8
35°	345.2	366.9	391.7	420.0
37.5°	327.0	350.9	373.5	401.0
40°	307.1	331.9	355.4	383.3
42.5°	287.6	313.3	336.7	360.7
45°	269.4	294.7	315.9	338.5
47.5°	252.1	274.7	296.4	316.8
50°	235.3	254.3	274.3	291.1
52.5°	217.6	235.7	251.7	266.7
55°	201.6	215.8	230.0	243.7
57.5°	182.6	196.7	209.1	219.8
60°	166.6	175.5	187.4	198.5
62.5°	148.4	158.6	167.9	175.0
65°	130.7	139.6	146.7	152.9
67.5°	115.6	121.0	126.3	132.9
70°	97.5	101.9	108.1	113.0
72.5°	82.0	85.5	88.6	94.4
75°	66.5	69.6	71.3	76.7
77.5°	51.4	54.5	55.8	58.9
80°	39.4	39.9	41.6	44.3
82.5°	27.0	27.9	28.4	30.6
85°	15.5	17.7	17.3	18.2
87.5°	6.6	7.1	8.0	8.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)