

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: P1037521

Luminaire Tested: S123RDS-B340DB2750-4F0-XX-W2A-A_2700K

Issue Date: 5/2/2025

Test Information

Test Method: LM-79-2019
Report Number: P1037521
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-30)
Test Lab: INNOVATION CENTER
Issue Date: 5/2/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDS-B340DB2750-4F0-XX-W2A-A_2700K
Description: Define 3 Regressed Direct Surface with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

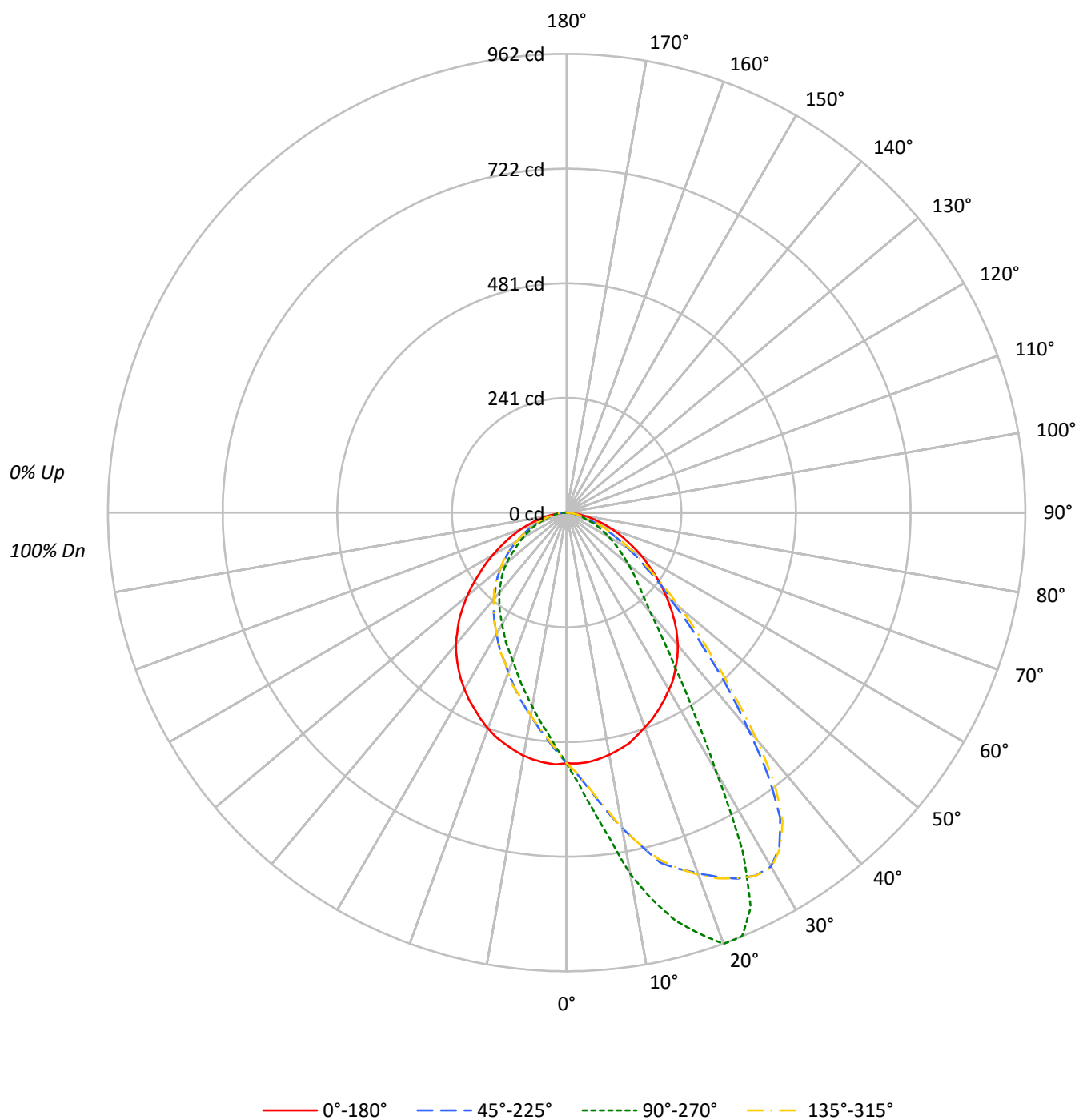
Lumens per Lamp: N/A
Luminaire Lumens: 1308.0 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.2 / 1.34
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 13
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: 24 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				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	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102		100
1	110	106	102	99	108	104	100	97	100	97	94		96	93	91		92	90	89		87
2	101	94	88	83	99	92	87	82	89	84	80		86	82	78		83	79	77		74
3	93	84	76	71	91	82	75	70	79	74	69		77	72	68		74	70	66		64
4	86	75	67	61	84	74	66	61	71	65	60		69	64	59		67	62	58		56
5	80	68	60	53	78	67	59	53	65	58	53		63	57	52		61	56	52		50
6	74	62	53	47	72	61	53	47	59	52	47		57	51	46		56	50	46		44
7	69	56	48	42	67	55	48	42	54	47	42		53	46	42		51	46	41		39
8	64	52	44	38	63	51	43	38	50	43	38		48	42	38		47	42	37		36
9	60	48	40	35	59	47	40	35	46	39	34		45	39	34		44	38	34		32
10	57	44	37	32	55	44	36	32	43	36	31		42	36	31		41	35	31		29

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5654	5654	5654	5654
5°	5670	6740	5686	5001
10°	5633	8415	5657	4517
15°	5589	9878	5589	4120
20°	5487	11024	5518	3781
25°	5416	10848	5405	3574
30°	5332	7798	5321	3360
35°	5230	5206	5206	3221
40°	5099	3836	5074	3077
45°	4861	3218	4854	2936
50°	4563	2838	4548	2741
55°	4228	2490	4194	2473
60°	3901	2217	3862	2265
65°	3517	1948	3540	2109
70°	3169	1530	3254	1926
75°	2749	1347	2861	1759
80°	2287	1172	2479	1729
85°	1828	939	2001	1828

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 30°

Vertical Angle: 45°

Luminance: 9222 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.6	3.9
10°-20°	161.5	12.3
20°-30°	254.3	19.4
30°-40°	264.5	20.2
40°-50°	226.3	17.3
50°-60°	172.5	13.2
60°-70°	110.5	8.4
70°-80°	52.9	4.0
80°-90°	13.9	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°	467.4	35.7
0°-40°	731.9	56.0
0°-60°	1130.6	86.4
0°-90°	1308.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1308.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	525	525	525	525	525	
5°	525	624	526	463	525	50
15°	502	886	502	370	502	141
25°	456	913	455	301	456	210
35°	398	396	396	245	398	249
45°	319	211	319	193	319	246
55°	225	133	224	132	225	202
65°	138	76	139	83	138	138
75°	66	32	69	42	66	71
85°	15	8	16	15	15	17
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	525.3	525.3	525.3	525.3	525.3	525.3	525.3	525.3	525.3	525.3	525.3
2.5°	526.6	530.2	532.9	534.7	539.2	541.9	544.2	548.2	548.2	549.1	550.9
5°	524.8	532.5	537.9	545.1	554.5	559.0	565.3	570.7	578.4	582.4	586.5
7.5°	520.8	531.6	542.8	553.6	567.6	576.6	582.9	596.8	606.7	618.8	628.3
10°	515.4	530.2	544.6	561.3	580.2	593.6	603.1	621.5	640.4	657.5	671.9
12.5°	508.6	526.6	547.3	567.6	594.1	607.6	622.9	645.8	672.8	694.4	713.7
15°	501.5	522.1	545.5	570.3	603.5	622.4	644.5	672.4	702.5	733.5	760.1
17.5°	490.2	516.3	542.4	578.4	617.5	628.7	647.6	685.8	723.2	751.1	783.4
20°	479.0	508.2	541.0	573.4	615.7	641.8	659.3	699.8	739.8	773.5	804.6
22.5°	468.6	499.2	533.4	574.3	613.9	640.0	662.0	704.3	750.6	788.4	826.6
25°	456.0	489.3	527.1	565.8	613.9	633.7	658.0	707.0	756.0	799.6	846.8
27.5°	442.5	476.3	513.6	553.2	597.2	626.5	650.3	702.9	762.7	809.5	858.1
30°	429.0	463.7	499.7	535.2	584.7	612.5	640.0	698.0	766.3	819.9	857.2
32.5°	416.0	445.2	480.8	515.4	564.4	595.0	626.0	693.0	767.7	812.7	830.7
35°	398.0	428.6	457.4	494.3	543.7	573.9	610.3	692.6	761.8	789.7	780.7
37.5°	381.4	407.0	434.4	467.3	518.1	557.2	595.0	680.9	742.5	744.3	693.5
40°	362.9	384.1	407.0	441.6	496.5	535.2	576.1	662.9	707.4	680.9	591.4
42.5°	341.8	360.7	378.7	412.4	472.2	515.4	559.5	640.4	656.6	595.4	502.4
45°	319.3	334.6	351.2	386.8	446.6	489.3	533.4	605.8	589.2	502.8	414.2
47.5°	295.9	309.0	325.2	357.5	419.2	462.8	504.6	556.3	514.0	421.4	347.2
50°	272.5	282.9	298.6	331.9	391.3	430.8	469.5	503.3	443.9	361.6	286.9
52.5°	249.6	257.7	273.9	302.2	359.8	397.6	425.4	438.5	378.2	298.6	249.2
55°	225.3	234.3	245.1	273.9	331.0	358.9	377.3	376.9	314.8	253.2	206.0
57.5°	201.9	210.0	219.5	248.3	294.6	313.5	329.2	321.6	262.6	207.3	176.7
60°	181.2	185.7	196.1	220.4	255.4	271.6	280.6	267.6	214.5	174.9	146.2
62.5°	158.8	163.3	171.8	194.7	216.3	224.9	232.5	215.9	177.2	142.6	125.0
65°	138.1	143.9	149.3	167.8	179.4	189.8	188.9	174.9	138.5	116.0	101.6
67.5°	120.1	122.3	126.8	138.1	143.5	151.1	151.6	135.8	111.5	94.4	85.9
70°	100.7	103.0	106.1	111.5	115.1	116.9	116.0	102.1	84.1	73.8	66.1
72.5°	84.1	83.7	85.9	85.9	89.5	89.0	86.3	75.6	63.9	55.3	50.8
75°	66.1	66.6	67.0	66.1	64.8	63.0	60.7	52.6	45.0	40.9	36.9
77.5°	51.7	50.8	51.3	48.1	46.3	44.5	41.4	37.3	31.0	30.1	28.3
80°	36.9	36.4	36.0	34.6	30.6	28.8	26.5	24.3	22.9	22.0	21.6
82.5°	24.7	24.7	23.8	21.1	18.9	17.5	17.1	16.2	14.8	14.8	14.4
85°	14.8	14.4	13.5	10.8	9.4	9.4	9.4	9.4	8.5	8.5	8.1
87.5°	5.8	5.4	4.0	4.0	3.6	3.6	3.6	3.1	3.1	2.7	2.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	525.3	525.3	525.3	525.3	525.3	525.3	525.3	525.3	525.3	525.3	525.3
2.5°	554.5	554.5	558.6	562.6	560.4	561.7	566.7	564.9	568.5	568.0	569.4
5°	596.3	601.3	605.3	613.9	615.2	613.9	622.4	624.7	628.7	623.8	626.0
7.5°	643.6	653.9	663.8	676.4	680.4	681.3	685.8	692.1	697.5	687.6	692.6
10°	689.4	705.2	725.4	736.7	746.6	750.2	753.8	757.8	764.1	769.9	765.4
12.5°	738.9	761.8	781.2	801.4	813.6	812.2	822.6	825.3	830.2	831.6	833.4
15°	779.4	811.8	823.9	854.0	856.7	865.7	877.4	887.8	889.1	886.4	886.4
17.5°	818.1	846.0	867.5	891.8	896.8	904.4	919.3	924.2	926.0	925.6	925.6
20°	849.5	868.0	904.4	924.7	932.7	942.6	953.0	959.3	960.6	962.4	959.7
22.5°	870.2	898.1	927.8	944.4	951.2	954.8	961.5	963.3	961.1	961.5	962.0
25°	886.4	913.9	931.8	936.3	935.9	931.4	926.5	917.9	917.0	913.4	906.2
27.5°	890.9	901.3	899.0	880.6	862.1	860.3	830.7	814.5	796.0	798.7	788.4
30°	866.6	853.1	821.2	774.4	755.1	723.6	690.3	655.7	642.2	627.4	654.8
32.5°	807.3	759.2	702.5	641.8	609.4	581.5	546.0	520.8	506.4	494.3	517.6
35°	717.8	642.7	567.6	510.0	483.5	458.3	425.0	412.4	394.4	396.2	398.5
37.5°	602.6	519.9	463.2	406.6	389.0	378.7	354.4	335.1	328.8	327.0	327.0
40°	494.7	426.8	376.4	331.9	318.4	309.9	290.5	281.5	274.8	273.0	275.2
42.5°	409.3	351.2	312.1	282.4	273.0	262.2	254.1	242.9	241.5	238.4	242.4
45°	343.6	293.2	264.0	242.4	234.3	230.3	221.3	214.5	211.8	211.4	214.5
47.5°	291.4	252.3	226.7	213.2	206.9	202.8	195.2	192.5	189.8	190.7	189.3
50°	244.7	215.4	198.8	186.6	182.6	178.5	173.6	170.9	169.5	169.5	169.1
52.5°	210.0	185.7	174.9	163.7	161.9	159.7	154.3	152.5	150.2	149.8	151.6
55°	179.9	163.3	152.5	145.7	143.9	139.4	137.2	134.9	133.6	132.7	133.1
57.5°	153.8	141.2	134.0	128.2	125.0	123.2	119.2	118.7	117.8	117.8	117.4
60°	132.2	123.2	114.7	111.1	108.8	106.6	106.1	103.4	102.1	103.0	102.5
62.5°	112.0	104.8	99.8	95.8	94.4	92.6	91.3	90.4	89.0	89.5	89.5
65°	93.5	87.7	84.1	80.5	80.1	78.3	77.8	76.9	76.9	76.5	77.4
67.5°	76.9	72.9	69.7	67.5	66.1	66.6	64.8	63.4	63.4	63.0	64.3
70°	61.2	58.9	55.8	53.1	51.3	51.3	49.0	48.6	48.6	48.6	48.1
72.5°	47.2	43.2	41.8	40.9	40.9	40.9	40.0	40.0	39.6	40.0	39.6
75°	35.1	34.6	33.7	33.3	33.3	32.8	32.4	32.4	32.4	32.4	32.4
77.5°	27.4	27.4	26.5	26.1	26.1	26.1	25.6	25.6	25.2	25.2	25.2
80°	20.2	20.2	19.3	19.3	19.3	18.9	18.9	18.9	19.3	18.9	18.9
82.5°	13.9	13.9	13.5	13.9	13.5	13.0	13.0	13.0	12.6	13.0	13.0
85°	8.1	8.1	7.6	7.2	7.6	7.6	7.2	7.6	7.2	7.6	7.2
87.5°	3.1	2.7	2.7	2.7	2.2	2.7	2.2	2.2	2.7	2.2	2.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	525.3	525.3	525.3	525.3	525.3	525.3	525.3	525.3	525.3	525.3	525.3
2.5°	567.1	564.4	562.6	561.3	559.9	564.0	558.6	552.7	548.7	546.0	545.1
5°	626.5	620.6	615.7	611.6	612.5	612.5	603.1	592.7	583.8	578.8	573.4
7.5°	695.3	689.0	679.1	676.8	675.1	663.8	654.4	635.5	624.2	613.0	603.1
10°	763.6	755.6	746.1	743.0	738.5	724.5	710.1	685.8	671.9	651.2	638.2
12.5°	827.5	817.6	808.2	805.9	799.2	787.0	762.3	737.1	713.3	691.2	668.3
15°	881.0	878.3	863.9	854.9	840.1	823.5	818.1	783.9	753.8	730.8	689.4
17.5°	926.0	913.4	899.9	894.1	888.2	868.9	849.5	814.5	782.1	748.4	721.8
20°	962.0	948.0	938.6	930.1	927.4	905.3	874.7	843.7	808.2	770.4	735.8
22.5°	963.8	962.0	955.7	950.7	945.3	930.9	906.7	868.0	830.2	788.8	743.4
25°	926.5	923.8	941.7	937.2	940.8	935.4	922.4	890.0	846.0	797.4	751.5
27.5°	814.0	841.5	869.8	879.7	886.4	905.8	912.1	894.1	858.5	806.8	755.6
30°	661.1	697.5	743.4	768.1	787.0	823.0	869.8	875.6	859.0	817.6	754.7
32.5°	519.0	552.3	589.2	618.4	643.6	717.3	780.3	825.7	833.8	812.2	756.9
35°	418.3	432.6	467.7	495.6	529.8	592.7	667.0	740.3	789.7	792.4	750.2
37.5°	344.9	352.6	383.2	398.9	419.2	474.5	543.7	639.5	716.4	752.9	731.3
40°	285.6	303.1	320.7	329.7	344.0	382.3	448.8	523.9	619.3	686.7	702.0
42.5°	247.8	255.4	266.7	279.3	288.3	321.6	366.1	434.9	520.8	614.8	657.1
45°	218.6	221.3	233.0	241.1	250.5	273.9	305.4	362.9	438.5	531.1	603.1
47.5°	194.3	199.7	206.0	210.9	217.2	235.2	262.2	304.0	370.6	453.3	530.7
50°	172.7	175.8	183.9	186.2	190.7	203.3	224.0	255.9	310.8	376.9	456.9
52.5°	152.5	158.3	161.5	164.6	168.7	179.0	192.5	218.6	259.9	322.0	389.9
55°	136.7	138.5	143.0	145.7	148.9	156.1	167.8	187.1	219.5	268.9	333.3
57.5°	121.4	121.4	125.9	128.2	131.3	136.7	147.1	161.9	185.3	222.2	281.1
60°	105.2	105.7	109.3	112.0	112.9	118.3	126.8	138.5	156.5	183.5	231.6
62.5°	90.8	93.1	94.9	95.8	98.9	102.1	109.3	117.4	130.0	153.8	188.0
65°	78.7	79.2	80.5	81.4	82.8	86.3	91.7	97.1	107.9	125.5	153.4
67.5°	64.8	66.6	68.4	68.4	69.7	71.5	76.9	81.4	89.5	99.8	118.7
70°	48.6	49.5	52.2	53.5	55.3	58.5	61.2	63.9	70.2	77.8	92.2
72.5°	40.5	40.5	41.4	41.8	41.8	44.1	48.1	50.8	54.0	59.4	69.3
75°	32.4	32.4	33.7	33.3	34.2	35.1	35.5	37.3	39.1	43.2	49.0
77.5°	25.6	26.1	26.1	26.5	26.5	27.0	27.4	28.3	29.2	31.5	34.2
80°	18.9	19.3	19.3	19.8	19.8	20.2	20.7	21.1	22.0	22.9	24.3
82.5°	13.0	13.5	13.5	13.9	13.5	13.9	14.4	14.4	14.8	15.7	16.2
85°	7.6	7.6	8.1	7.6	7.6	7.6	8.1	8.1	8.5	9.9	9.9
87.5°	2.2	2.7	2.2	2.7	2.7	2.7	2.7	3.1	3.1	3.6	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

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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	525.3	525.3	525.3	525.3	525.3	525.3	525.3	525.3	525.3	525.3	525.3
2.5°	543.7	541.5	539.2	539.2	534.3	529.8	527.5	528.4	525.7	522.1	518.5
5°	567.6	558.6	556.8	551.8	545.1	535.6	530.7	526.2	520.8	513.6	506.9
7.5°	589.6	577.9	571.6	566.7	553.6	540.6	529.8	522.6	513.1	502.4	494.3
10°	618.4	596.8	590.1	578.8	560.4	541.9	529.3	517.6	504.6	492.0	481.2
12.5°	641.3	616.6	604.0	592.7	568.9	545.5	524.4	510.0	494.3	480.3	466.4
15°	667.4	639.5	617.5	604.0	573.9	545.5	521.7	501.5	483.9	466.8	454.7
17.5°	680.0	644.9	635.0	615.7	572.1	543.7	514.5	492.9	471.8	452.0	437.6
20°	699.8	658.9	634.1	621.1	582.4	540.6	506.4	481.7	459.6	438.5	423.2
22.5°	701.1	656.6	640.4	615.7	568.0	531.1	499.2	469.1	443.4	423.6	407.9
25°	698.0	652.6	630.1	610.3	570.7	525.7	484.8	455.1	429.9	407.0	388.6
27.5°	696.6	640.9	619.7	599.9	555.4	510.0	476.3	442.5	413.8	393.5	374.6
30°	694.8	628.3	602.6	579.7	538.8	497.9	457.4	428.1	400.7	375.1	356.2
32.5°	683.1	611.2	585.1	560.8	516.7	475.8	443.9	412.9	383.2	359.3	342.2
35°	679.5	595.4	561.3	535.2	492.0	455.6	421.9	396.2	368.3	344.5	324.3
37.5°	669.2	579.3	542.4	509.1	464.1	429.5	404.8	379.1	352.1	326.5	310.3
40°	651.2	560.4	518.5	484.4	438.0	403.0	380.0	361.1	334.6	311.7	291.9
42.5°	624.7	541.0	496.1	460.1	408.8	376.0	357.1	339.1	316.6	292.8	276.6
45°	594.1	515.4	473.6	433.5	381.4	349.4	329.7	318.9	298.2	277.9	259.0
47.5°	552.3	488.9	447.5	406.1	353.0	322.0	306.3	295.5	281.1	259.0	243.8
50°	499.7	454.7	415.6	378.7	325.2	295.5	279.7	271.6	259.5	243.8	228.9
52.5°	441.2	415.1	382.7	348.5	296.8	268.9	254.5	248.3	239.3	224.4	211.8
55°	382.3	371.0	349.0	315.3	267.1	244.2	231.6	223.5	216.8	206.0	195.2
57.5°	329.7	324.3	309.0	282.9	242.4	218.6	207.8	202.4	197.0	188.9	178.1
60°	275.2	281.1	265.3	252.3	215.4	194.7	185.3	179.4	176.7	169.5	162.8
62.5°	228.0	233.4	224.4	214.5	188.4	170.0	164.2	158.8	157.0	150.7	143.9
65°	185.3	192.0	185.3	179.9	164.2	148.9	141.7	139.0	137.2	133.1	127.7
67.5°	147.5	154.3	151.1	144.4	139.4	126.8	122.8	120.1	119.2	116.0	111.5
70°	111.1	120.5	121.4	117.4	112.9	107.0	104.3	103.4	101.2	98.5	95.8
72.5°	80.1	90.8	91.3	91.3	88.6	88.6	85.9	84.6	84.6	81.9	78.7
75°	58.9	66.1	67.0	67.9	69.3	70.6	68.8	68.8	68.4	65.7	64.3
77.5°	39.1	45.4	47.7	50.8	52.6	52.6	53.5	54.4	53.5	52.2	51.3
80°	25.2	29.7	32.4	34.2	36.9	38.2	39.6	40.0	39.1	38.7	37.3
82.5°	16.6	18.0	19.3	21.6	24.7	27.0	27.0	26.5	27.4	27.0	26.5
85°	9.4	10.3	10.8	11.2	13.0	15.3	15.7	16.2	17.1	16.2	15.3
87.5°	3.6	4.0	4.0	4.0	4.9	5.4	6.7	8.5	8.1	7.2	7.2
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: P1037521

CATALOG NUMBER: S123RDS-B340DB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	525.3	525.3	525.3	525.3	525.3	525.3	525.3	525.3	525.3	525.3	525.3
2.5°	518.5	516.3	515.4	513.1	507.7	504.2	500.1	497.4	497.9	495.6	497.0
5°	502.4	501.9	498.8	494.3	486.6	482.6	475.4	471.8	470.0	470.4	467.7
7.5°	488.9	484.8	482.6	475.4	468.2	459.6	453.8	450.6	447.9	445.2	443.4
10°	473.6	470.0	466.4	458.7	448.8	440.7	432.6	429.5	425.4	423.6	422.3
12.5°	457.4	455.1	450.6	441.6	430.4	422.8	413.3	411.5	406.1	402.5	401.6
15°	442.5	441.2	433.1	422.8	411.5	403.9	395.8	390.4	381.4	383.2	380.0
17.5°	426.8	421.0	416.0	402.1	396.7	385.0	375.5	372.8	366.5	362.5	358.4
20°	409.3	405.7	399.4	390.4	377.3	363.8	356.6	352.1	348.5	342.2	340.4
22.5°	392.6	388.1	382.7	371.0	359.8	348.5	338.6	334.6	330.1	325.6	322.9
25°	379.6	372.8	367.0	352.6	341.3	331.9	325.6	318.9	312.6	309.9	309.0
27.5°	359.3	355.3	349.4	336.0	325.6	315.3	309.4	304.9	298.2	295.0	292.3
30°	346.3	338.2	331.5	320.7	310.3	299.1	293.7	288.3	284.2	280.2	277.0
32.5°	328.8	322.5	317.1	306.3	295.9	285.6	279.7	271.6	269.4	266.2	262.6
35°	311.7	307.6	301.8	290.1	278.8	271.6	265.3	257.7	255.0	252.8	249.6
37.5°	295.5	289.6	285.6	274.3	264.4	255.9	251.0	244.7	242.9	240.2	237.9
40°	281.5	275.7	271.6	260.4	250.1	241.1	237.9	231.6	228.9	225.8	224.4
42.5°	265.8	260.8	255.4	247.4	236.6	227.6	221.3	217.7	214.1	212.7	210.0
45°	249.2	244.7	240.6	231.6	220.4	214.1	208.7	203.7	201.0	198.8	197.0
47.5°	234.8	230.7	225.3	215.4	206.4	200.6	195.2	190.2	187.5	184.8	182.6
50°	218.1	215.9	210.0	200.6	192.0	185.3	180.3	175.8	174.0	170.9	167.3
52.5°	203.3	199.2	194.3	186.6	179.0	170.9	164.2	161.5	158.3	156.5	153.4
55°	185.7	183.0	177.6	170.9	162.8	156.1	151.1	147.5	143.5	141.7	137.6
57.5°	170.9	166.0	163.3	154.7	147.1	140.3	136.7	133.1	128.6	125.9	124.1
60°	154.7	150.2	146.2	139.0	133.6	126.4	121.0	117.8	114.7	111.1	109.3
62.5°	139.0	135.4	130.4	124.6	117.8	112.0	107.9	103.4	101.6	98.0	96.7
65°	121.9	119.2	115.1	108.4	103.0	98.0	94.0	90.4	88.6	87.2	86.3
67.5°	106.6	103.0	100.3	94.4	88.6	84.6	82.3	80.1	77.8	76.5	75.1
70°	90.8	88.1	85.4	80.1	76.0	72.4	70.6	68.8	67.5	66.1	64.8
72.5°	74.7	73.3	70.6	67.0	63.9	61.2	59.8	57.6	56.2	54.0	53.1
75°	61.6	59.4	58.0	54.9	52.2	49.9	48.1	45.4	43.6	42.7	42.3
77.5°	48.6	47.7	45.9	43.2	41.8	39.6	36.9	36.0	35.1	35.1	34.6
80°	36.4	35.1	33.7	31.5	30.1	28.3	28.3	28.3	27.9	28.3	27.9
82.5°	24.7	23.8	22.9	21.6	21.1	21.1	21.6	21.6	21.6	21.6	21.6
85°	14.4	14.4	14.4	14.8	14.4	14.4	14.8	15.3	14.8	14.8	14.4
87.5°	6.7	6.7	7.2	7.2	7.6	7.6	7.6	7.6	7.6	7.6	8.1
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: P1037521

CATALOG NUMBER: S123RDS-B340DB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	525.3	525.3	525.3	525.3	525.3	525.3	525.3	525.3	525.3	525.3	525.3
2.5°	496.5	497.0	495.6	492.9	492.5	493.4	496.1	495.2	492.9	497.0	493.4
5°	469.1	466.8	465.9	466.8	464.1	462.8	465.5	464.1	465.5	465.9	467.3
7.5°	442.5	443.0	440.3	440.7	437.1	438.0	438.0	438.0	439.4	440.3	442.1
10°	419.6	420.5	417.4	417.8	415.1	413.3	414.7	417.4	417.4	417.4	418.3
12.5°	401.2	397.1	394.9	394.4	391.3	390.4	393.1	394.0	396.2	396.2	397.6
15°	378.2	377.3	375.5	375.5	367.9	369.7	370.6	373.7	378.2	374.6	375.5
17.5°	357.5	355.3	353.0	352.1	351.2	348.5	352.1	351.7	354.4	354.8	356.2
20°	339.1	337.3	332.8	333.3	334.2	330.1	332.4	332.4	335.1	337.8	340.9
22.5°	321.1	319.3	317.1	318.0	315.3	314.4	314.4	316.6	319.8	322.0	321.6
25°	307.2	304.0	302.7	301.3	300.0	300.9	299.5	301.8	304.0	305.4	304.0
27.5°	291.4	290.1	287.4	286.0	283.8	284.7	285.6	287.4	288.7	288.7	290.1
30°	276.1	274.3	273.4	272.1	272.1	270.3	270.7	272.5	273.9	275.2	277.0
32.5°	261.3	259.9	258.6	258.6	257.7	257.2	256.8	259.5	259.5	262.2	262.2
35°	249.2	246.9	246.9	244.7	245.6	245.1	244.2	246.0	246.5	248.3	247.8
37.5°	235.7	235.7	234.8	232.5	230.7	231.2	233.4	233.4	234.8	234.3	235.7
40°	222.2	221.3	221.3	219.9	219.5	219.0	219.5	219.9	222.2	221.7	222.2
42.5°	208.7	209.1	206.9	206.9	206.9	205.5	206.0	206.4	207.3	208.2	209.6
45°	195.6	194.7	194.3	193.4	192.5	192.9	192.5	194.3	193.8	194.7	196.1
47.5°	181.7	180.3	179.9	178.1	178.1	179.0	178.5	179.9	180.3	181.7	180.8
50°	168.2	166.4	165.1	165.5	162.8	163.7	163.7	165.1	166.4	166.9	167.8
52.5°	152.5	152.0	151.6	149.3	148.9	148.4	148.9	149.3	151.1	152.5	152.9
55°	137.2	136.7	134.0	133.1	131.8	131.8	132.7	133.1	136.3	136.7	138.5
57.5°	123.2	121.9	118.7	118.3	118.3	118.3	116.9	118.7	119.6	121.9	121.9
60°	107.9	107.9	105.2	105.2	105.7	105.2	105.2	105.7	105.7	107.5	108.4
62.5°	95.8	95.3	95.3	94.4	94.0	94.4	94.0	94.0	94.4	95.8	97.1
65°	85.0	84.6	84.1	83.7	82.8	82.8	83.2	84.1	84.1	85.0	85.4
67.5°	74.7	74.7	73.8	73.8	73.3	72.9	73.3	72.9	74.7	74.7	75.1
70°	64.3	63.9	62.5	62.1	60.7	61.2	61.2	62.5	63.0	63.9	64.8
72.5°	51.7	51.7	50.8	49.9	50.4	49.5	49.5	49.9	49.9	51.3	51.7
75°	42.7	41.8	41.4	41.8	41.4	42.3	41.4	41.4	42.3	42.3	42.3
77.5°	35.1	35.1	34.6	34.6	35.1	34.6	35.1	35.1	35.1	34.6	35.1
80°	28.8	28.3	28.3	28.3	27.9	27.9	27.9	27.9	27.9	27.9	27.9
82.5°	21.6	21.6	21.1	21.6	21.6	21.1	21.6	21.1	21.1	21.6	21.6
85°	14.4	15.3	14.4	14.4	14.8	14.8	15.3	14.8	15.3	14.4	14.8
87.5°	7.6	8.1	8.1	7.6	7.6	8.1	8.1	8.1	8.5	7.6	8.1
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: P1037521

CATALOG NUMBER: S123RDS-B340DB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	525.3	525.3	525.3	525.3	525.3	525.3	525.3	525.3	525.3	525.3	525.3
2.5°	497.0	498.8	497.0	493.4	497.0	499.2	501.5	505.1	506.9	506.9	509.5
5°	468.6	472.2	470.9	470.0	473.6	475.8	479.4	483.9	488.9	492.0	495.6
7.5°	443.4	445.7	447.9	447.9	451.5	456.5	461.9	467.3	473.6	478.1	480.8
10°	421.4	423.2	424.5	426.3	431.7	437.1	444.3	451.1	456.5	461.4	465.9
12.5°	400.3	403.0	406.1	407.5	411.5	418.3	425.0	433.1	441.6	446.6	451.1
15°	380.0	381.4	385.0	389.0	392.6	399.8	408.4	416.9	424.1	431.7	435.8
17.5°	359.3	359.8	369.2	367.0	378.7	385.4	389.9	398.0	409.7	416.0	422.3
20°	339.1	343.6	347.6	349.9	356.2	363.8	376.9	383.2	392.6	398.5	403.9
22.5°	323.4	330.1	330.1	335.5	338.6	345.8	355.3	367.4	377.8	381.8	389.5
25°	309.4	312.6	318.0	319.8	325.6	331.9	338.2	351.2	362.5	367.9	373.3
27.5°	291.4	295.5	302.7	302.7	310.3	317.1	324.7	333.3	344.5	352.1	358.0
30°	277.5	281.5	284.7	289.6	292.8	299.1	312.6	318.9	328.8	335.5	342.7
32.5°	264.4	267.6	270.3	275.7	279.3	286.5	293.7	304.9	313.5	319.8	327.4
35°	250.1	253.2	256.8	260.8	266.2	273.0	279.7	289.2	297.7	303.6	309.9
37.5°	236.6	238.8	244.2	246.9	251.4	257.7	266.2	276.1	283.8	288.3	294.6
40°	223.5	225.3	229.4	234.3	237.5	242.4	251.4	259.9	269.4	274.8	279.7
42.5°	209.6	211.8	215.4	220.4	225.3	230.7	235.7	245.6	254.1	258.6	264.0
45°	197.4	198.8	201.5	206.4	211.4	215.4	223.1	232.1	240.2	243.8	249.6
47.5°	183.0	184.4	188.4	190.7	196.1	201.5	209.1	218.1	225.3	228.9	234.3
50°	168.2	169.5	172.2	177.2	180.8	186.6	193.4	201.0	210.0	215.0	218.1
52.5°	153.8	156.5	158.8	162.8	167.3	173.1	179.4	186.6	194.3	199.2	202.8
55°	139.4	141.7	144.4	146.6	152.0	157.4	164.6	171.3	178.1	182.6	186.6
57.5°	123.2	126.4	129.1	133.6	137.6	142.1	150.2	155.6	163.7	166.9	170.4
60°	109.3	112.4	114.7	118.3	121.9	127.7	133.1	139.9	146.6	150.7	155.2
62.5°	97.6	98.9	100.3	103.9	107.5	112.9	118.3	125.0	132.2	134.5	138.1
65°	85.9	87.2	89.5	92.6	95.3	98.5	104.3	109.7	116.5	120.1	121.4
67.5°	76.0	77.4	77.8	80.1	82.3	85.9	89.0	94.4	100.7	103.0	105.7
70°	64.8	67.0	67.5	69.3	70.2	72.4	76.0	80.1	85.0	89.0	91.3
72.5°	51.7	54.9	55.8	58.5	59.8	62.1	64.8	67.9	71.1	72.9	74.7
75°	42.3	43.2	43.6	45.9	48.1	51.3	52.6	54.4	57.1	59.4	61.2
77.5°	35.1	35.5	36.0	36.0	36.4	38.2	40.9	43.2	45.0	45.9	47.2
80°	28.3	27.9	27.9	28.3	28.3	28.3	29.2	32.4	33.3	35.5	35.1
82.5°	22.0	21.1	21.6	21.1	21.1	21.1	21.1	21.6	21.6	22.9	23.8
85°	14.4	14.8	14.4	14.4	13.9	14.4	13.9	13.9	13.5	13.5	13.0
87.5°	7.6	8.1	7.6	7.6	7.2	7.6	7.2	7.2	6.7	6.7	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: P1037521

CATALOG NUMBER: S123RDS-B340DB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	525.3	525.3	525.3	525.3
2.5°	511.8	514.9	521.2	526.6
5°	501.0	506.0	515.4	524.8
7.5°	488.0	495.6	507.7	520.8
10°	475.4	485.3	500.1	515.4
12.5°	462.8	473.1	488.9	508.6
15°	447.9	458.7	477.6	501.5
17.5°	434.9	449.3	466.4	490.2
20°	421.0	431.7	453.8	479.0
22.5°	403.4	421.4	442.1	468.6
25°	389.5	405.2	425.9	456.0
27.5°	372.4	390.8	416.0	442.5
30°	358.4	373.7	397.1	429.0
32.5°	342.2	360.2	384.5	416.0
35°	327.9	343.1	366.1	398.0
37.5°	310.8	327.4	353.0	381.4
40°	295.9	312.1	336.4	362.9
42.5°	277.9	295.0	319.3	341.8
45°	263.5	279.3	298.6	319.3
47.5°	246.0	262.6	281.5	295.9
50°	230.3	245.6	260.4	272.5
52.5°	213.2	227.1	240.6	249.6
55°	197.4	208.2	219.0	225.3
57.5°	179.0	189.3	198.3	201.9
60°	162.8	171.3	177.2	181.2
62.5°	145.7	152.0	156.5	158.8
65°	129.1	133.6	135.8	138.1
67.5°	112.0	116.0	117.4	120.1
70°	94.0	98.5	99.4	100.7
72.5°	80.5	80.5	82.3	84.1
75°	64.3	65.2	66.1	66.1
77.5°	50.4	50.4	51.3	51.7
80°	36.9	37.3	37.3	36.9
82.5°	25.2	26.1	25.2	24.7
85°	13.9	15.7	14.8	14.8
87.5°	5.8	5.8	6.7	5.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)