

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: PORTFOLIO

Report Number: P245017

Luminaire Tested: **LSR8B15D010 EC8B159730 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245017
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13958)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B15D010 EC8B159730 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1128.0 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

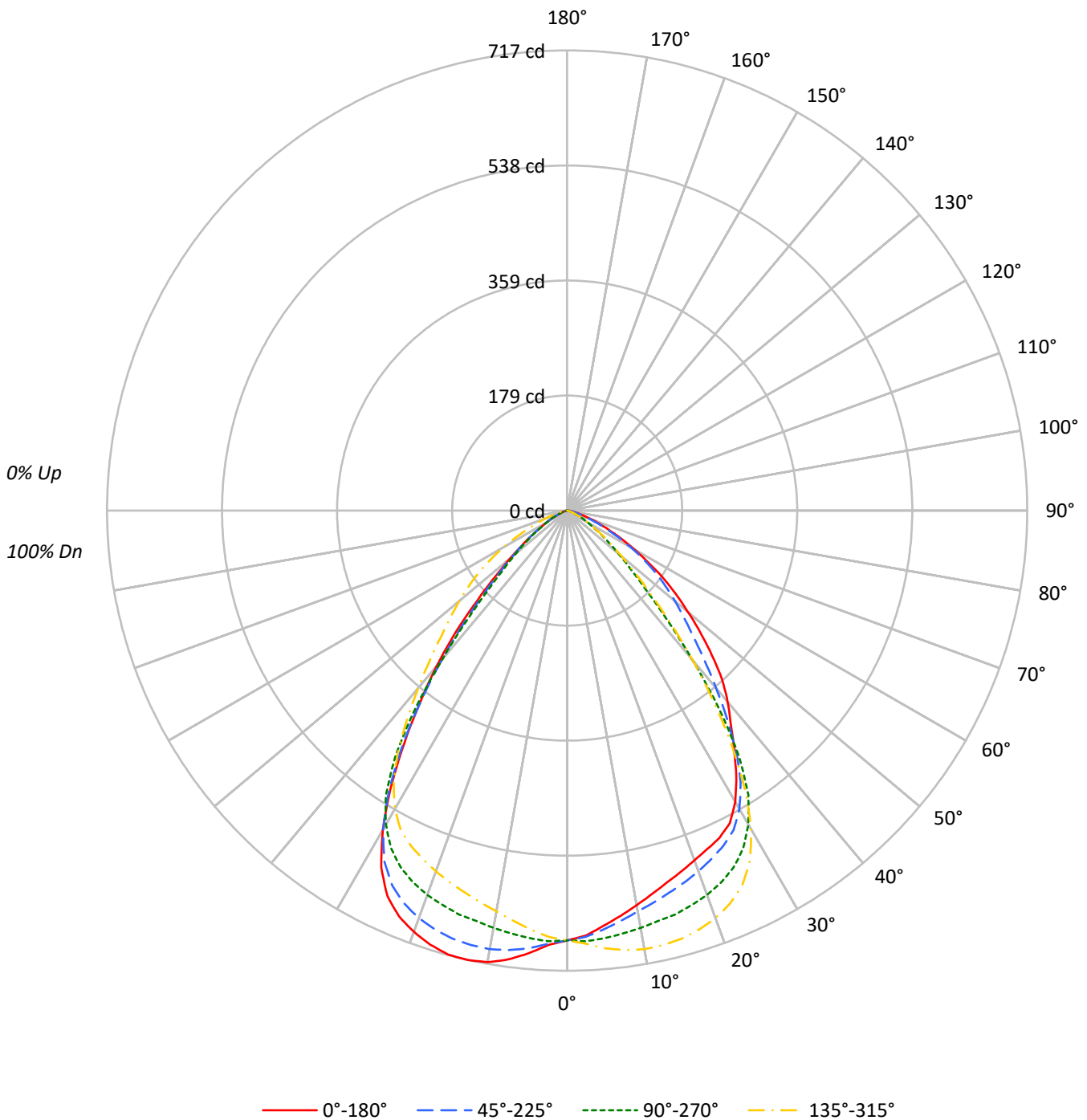
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P245017

CATALOG NUMBER: LSR8B15D010 EC8B159730 8LBSW0WMH

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	Luminaire represents a point source (luminous area is zero).			
5°	No luminance values can be calculated.			
10°				
15°				
20°				
25°				
30°				
35°				
40°				
45°				
50°				
55°				
60°				
65°				
70°				
75°				
80°				
85°				



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.7	5.7
10°-20°	184.6	16.4
20°-30°	279.5	24.8
30°-40°	280.1	24.8
40°-50°	175.9	15.6
50°-60°	93.7	8.3
60°-70°	38.5	3.4
70°-80°	10.2	0.9
80°-90°	1.7	0.2
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°	527.8	46.8
0°-40°	807.9	71.6
0°-60°	1077.5	95.5
0°-90°	1128.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1128.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	670	670	670	670	670	
5°	649	669	693	669	649	61
15°	600	651	716	651	600	170
25°	562	613	663	613	562	258
35°	453	466	442	466	453	284
45°	319	171	198	171	319	245
55°	182	63	67	63	182	162
65°	72	19	18	19	72	75
75°	20	4	3	4	20	23
85°	4	0	0	0	4	5
90°	0	0	0	0	0	



TEST NUMBER: P245017

CATALOG NUMBER: LSR8B15D010 EC8B159730 8LBSW0WMH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	669.7	669.7	669.7	669.7	669.7	669.7	669.7	669.7	669.7	669.7	669.7
2.5°	662.8	662.1	661.8	662.5	662.8	664.1	663.8	664.4	664.4	664.8	665.4
5°	649.4	649.1	649.4	649.4	650.7	652.0	651.7	652.7	653.3	654.9	655.6
7.5°	637.0	637.0	636.6	637.9	638.6	640.6	640.2	641.9	642.8	644.5	646.8
10°	624.2	624.2	624.5	625.5	625.8	628.8	628.8	631.1	632.4	634.0	637.0
12.5°	611.8	611.8	613.7	613.1	614.4	616.7	617.7	620.0	621.9	625.2	628.1
15°	600.0	600.0	600.7	602.3	603.3	606.2	607.9	610.5	612.8	616.0	620.3
17.5°	589.9	589.6	589.9	591.8	593.8	596.4	597.7	601.0	603.3	607.5	611.5
20°	579.7	580.4	580.4	582.0	583.3	586.6	587.9	591.5	594.1	598.0	602.6
22.5°	570.9	570.6	570.6	572.9	573.9	576.8	578.1	581.4	584.3	587.6	591.8
25°	562.1	561.4	562.7	563.1	563.7	567.0	568.0	570.3	573.2	576.1	580.4
27.5°	549.0	548.4	548.7	550.0	551.0	553.6	554.2	556.5	558.8	561.4	565.0
30°	523.8	523.2	522.8	525.1	526.1	528.1	529.1	533.0	533.6	536.6	539.2
32.5°	490.5	490.1	490.8	492.8	493.7	496.4	497.7	500.0	501.6	503.2	505.8
35°	453.2	452.5	453.2	455.2	455.2	457.5	458.4	459.4	459.1	459.4	458.8
37.5°	418.5	418.2	418.5	419.5	418.5	419.5	418.5	416.6	413.0	409.1	405.1
40°	389.1	389.4	387.5	388.8	385.2	384.5	380.9	376.0	368.8	361.0	349.9
42.5°	357.7	356.7	355.4	356.1	353.1	350.8	345.0	338.8	329.6	316.5	303.1
45°	319.1	318.8	318.2	317.8	315.9	313.6	308.7	301.5	291.3	277.9	261.9
47.5°	281.5	280.5	280.5	280.9	278.6	278.3	274.3	268.1	259.3	246.2	229.5
50°	245.6	245.2	245.9	247.2	245.6	244.9	242.3	238.0	230.2	219.1	203.4
52.5°	213.2	212.9	213.5	215.2	214.5	215.2	212.5	209.3	204.0	193.2	179.5
55°	181.5	181.5	181.5	183.4	183.4	183.4	182.1	180.2	175.3	167.4	154.7
57.5°	148.5	148.8	150.7	151.1	150.7	151.4	151.1	149.1	145.8	140.3	130.5
60°	120.7	120.7	121.6	122.6	122.3	122.6	122.6	121.6	118.4	113.8	105.9
62.5°	95.5	96.5	95.8	96.5	97.8	96.5	95.8	95.2	92.9	89.9	83.4
65°	72.3	72.9	72.9	73.2	72.6	72.9	71.6	70.6	69.3	66.1	61.8
67.5°	54.9	54.9	54.9	54.9	54.6	54.3	54.0	53.0	50.7	49.4	44.8
70°	42.2	40.2	40.2	40.2	40.2	40.6	39.6	38.3	37.6	35.3	32.0
72.5°	28.1	28.8	28.1	28.1	27.5	27.8	26.5	25.8	25.2	23.9	21.9
75°	20.3	18.6	19.3	19.6	18.6	19.3	18.0	16.7	16.7	15.7	14.7
77.5°	13.1	12.8	13.1	13.4	13.1	12.8	12.1	11.4	11.4	11.1	10.1
80°	9.5	9.2	9.2	9.2	8.8	9.2	8.5	8.5	7.8	7.5	6.9
82.5°	6.2	6.2	5.9	6.2	5.9	6.2	5.2	5.2	5.2	4.9	4.3
85°	4.3	3.6	3.6	3.9	3.3	3.9	3.6	3.3	2.9	2.9	2.6
87.5°	2.0	2.3	2.0	2.3	2.0	2.0	2.3	2.0	2.0	1.3	1.3
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: P245017

CATALOG NUMBER: LSR8B15D010 EC8B159730 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	669.7	669.7	669.7	669.7	669.7	669.7	669.7	669.7	669.7	669.7	669.7
2.5°	666.4	666.7	666.7	668.0	668.7	669.0	669.0	671.6	670.6	671.3	671.9
5°	656.9	658.9	659.5	659.5	663.1	664.4	665.7	668.7	669.0	671.0	673.3
7.5°	647.7	650.0	651.4	654.3	656.6	658.9	662.8	664.8	666.7	669.3	672.3
10°	638.9	641.5	644.2	646.4	650.0	653.0	655.6	660.2	662.5	666.1	670.0
12.5°	630.4	634.0	636.3	640.2	644.2	646.8	650.7	654.9	658.5	662.1	666.7
15°	622.9	627.2	629.8	634.0	638.3	641.9	646.1	651.4	654.0	658.2	662.5
17.5°	614.7	619.3	622.6	626.5	631.7	635.6	639.3	644.5	647.7	652.3	657.2
20°	606.2	610.8	614.7	618.6	623.9	627.8	632.1	637.3	640.9	645.5	649.4
22.5°	596.1	600.3	604.6	609.2	614.4	617.7	622.6	627.2	631.1	635.3	639.3
25°	583.0	588.2	591.5	595.8	600.0	603.6	608.8	613.4	616.7	620.6	624.2
27.5°	567.6	571.6	574.2	577.8	582.0	585.3	589.2	593.8	597.1	600.7	603.3
30°	541.5	545.1	547.4	550.0	554.2	557.2	560.5	564.7	567.0	569.6	571.9
32.5°	507.1	510.1	511.4	513.4	516.3	519.2	521.9	525.5	526.4	528.1	528.1
35°	457.5	458.1	457.8	458.4	459.7	461.4	463.7	465.9	467.3	467.3	466.3
37.5°	399.2	395.3	391.1	387.8	386.8	386.2	387.5	388.4	389.8	390.4	388.8
40°	338.8	329.9	320.4	311.9	306.1	303.4	302.5	303.1	303.1	305.4	305.4
42.5°	286.8	273.0	259.0	246.2	237.7	231.2	228.2	228.2	228.6	230.2	231.2
45°	243.6	226.3	209.9	195.9	184.1	175.6	171.7	170.7	170.4	171.0	173.3
47.5°	210.6	192.6	175.6	158.3	145.8	137.3	133.7	132.4	131.1	132.4	132.8
50°	184.7	166.1	148.1	130.8	117.7	110.2	105.6	103.6	103.3	103.3	104.0
52.5°	161.2	143.9	125.9	108.2	94.5	87.3	83.1	82.1	80.8	82.1	82.1
55°	139.0	121.6	104.0	87.3	75.9	68.3	64.4	63.1	62.4	63.4	63.4
57.5°	114.8	100.1	83.7	68.7	57.2	52.0	49.0	47.4	47.1	47.7	47.1
60°	94.2	81.7	67.7	54.0	45.1	39.6	37.3	36.6	36.0	36.6	36.6
62.5°	74.5	64.1	52.6	42.2	34.7	30.7	28.1	28.1	27.8	27.8	28.1
65°	55.3	47.1	38.9	30.1	24.2	21.3	19.3	19.3	19.0	19.3	19.0
67.5°	40.2	34.7	28.1	21.9	17.3	15.7	14.4	13.4	14.1	13.4	13.1
70°	29.4	24.8	20.3	16.7	13.4	11.8	10.8	10.5	9.8	9.8	9.8
72.5°	19.6	16.7	13.7	10.8	8.8	7.2	6.9	6.2	5.6	5.9	6.5
75°	13.1	11.1	9.8	7.8	5.9	5.9	3.9	3.9	3.3	3.9	2.9
77.5°	9.2	7.5	5.9	4.9	3.9	3.6	2.6	2.6	2.3	2.3	2.3
80°	6.5	5.6	4.3	3.6	2.6	2.6	2.3	2.0	1.6	1.6	2.0
82.5°	3.9	2.9	2.9	2.6	1.6	1.3	1.0	1.3	0.7	0.7	0.7
85°	2.3	2.0	1.6	1.0	0.7	0.7	0.3	0.0	0.3	0.3	0.0
87.5°	1.3	0.7	0.7	0.3	0.0	0.3	0.3	0.0	0.0	0.0	0.7
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: P245017

CATALOG NUMBER: LSR8B15D010 EC8B159730 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	669.7	669.7	669.7	669.7	669.7	669.7	669.7	669.7	669.7	669.7	669.7
2.5°	673.6	673.3	673.9	673.9	675.9	675.5	676.5	676.5	675.9	676.2	677.5
5°	675.9	676.9	678.8	680.5	683.4	684.7	686.3	688.0	688.3	689.3	690.3
7.5°	675.9	679.1	681.4	684.4	688.3	690.6	694.2	697.1	698.4	700.1	702.0
10°	674.6	677.8	682.1	685.4	690.3	693.9	697.5	702.0	704.0	706.6	709.2
12.5°	671.9	675.5	680.1	684.4	689.9	693.2	697.8	702.0	705.0	708.6	711.5
15°	668.0	672.3	676.5	680.8	686.7	690.6	694.8	699.7	702.7	706.6	709.2
17.5°	661.8	666.4	670.3	674.2	679.8	684.4	688.3	692.9	695.8	699.1	702.7
20°	654.3	658.5	662.8	666.1	671.6	675.5	679.8	684.0	686.3	687.0	692.6
22.5°	644.8	647.7	651.0	656.3	659.5	663.1	667.0	671.0	673.3	676.9	678.8
25°	629.1	632.1	635.6	637.9	641.9	644.8	648.7	653.0	654.3	656.9	658.9
27.5°	607.2	608.8	610.5	612.4	614.7	616.4	618.6	620.6	621.9	623.2	624.5
30°	572.5	572.5	572.5	571.2	572.2	573.2	573.5	573.2	573.2	572.9	572.9
32.5°	526.8	524.2	521.2	518.6	517.6	516.3	515.6	514.7	513.0	512.1	512.4
35°	465.0	459.1	455.5	452.2	449.6	447.6	446.7	445.7	445.4	444.0	442.7
37.5°	387.8	383.5	380.9	379.0	376.7	374.7	375.0	375.4	376.3	375.7	376.0
40°	306.1	305.1	306.1	303.8	303.1	303.8	305.4	307.7	309.0	310.3	312.6
42.5°	232.8	234.4	236.7	236.7	237.7	239.0	241.0	244.6	246.5	248.8	251.5
45°	175.3	177.2	180.2	181.1	181.8	183.4	185.7	188.7	190.0	191.9	194.2
47.5°	135.0	136.4	138.0	139.6	141.3	141.9	144.2	144.2	145.8	147.1	147.8
50°	105.3	106.6	107.9	108.9	109.5	110.5	111.2	112.2	112.5	113.1	113.5
52.5°	82.4	84.0	84.0	84.7	85.7	86.6	86.3	86.6	87.0	87.0	88.0
55°	64.4	64.4	65.4	65.4	66.1	65.7	66.1	66.1	66.1	66.1	66.4
57.5°	48.1	48.4	49.4	48.7	48.4	49.0	48.4	49.0	48.7	49.4	48.4
60°	36.9	36.9	37.3	37.3	37.6	37.6	37.6	37.3	37.3	36.9	36.9
62.5°	27.8	28.1	28.5	28.1	28.1	28.1	27.8	27.8	27.5	27.1	27.1
65°	18.6	18.3	19.0	18.3	18.6	18.6	18.3	18.6	17.7	18.0	17.7
67.5°	13.4	13.1	12.8	13.1	12.8	12.4	12.4	12.8	13.1	12.1	12.1
70°	8.8	9.2	8.8	9.2	9.5	9.5	9.2	8.8	9.2	8.5	8.8
72.5°	5.6	5.6	5.6	5.6	5.6	5.9	5.9	5.9	5.2	5.2	4.9
75°	2.6	3.6	2.9	2.6	3.6	3.6	3.3	3.3	2.9	2.9	2.9
77.5°	2.6	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.6	2.0	1.6
80°	1.3	1.3	1.3	1.0	1.3	1.3	1.6	1.3	1.3	1.0	1.6
82.5°	0.7	0.7	0.7	0.0	0.3	0.7	0.7	0.3	0.7	0.7	0.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P245017

CATALOG NUMBER: LSR8B15D010 EC8B159730 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	669.7	669.7	669.7	669.7	669.7	669.7	669.7	669.7	669.7	669.7	669.7
2.5°	677.2	676.9	677.2	677.5	677.2	676.9	677.2	677.5	676.2	675.9	676.5
5°	691.6	691.6	692.2	692.6	692.2	691.6	691.6	690.3	689.3	688.3	688.0
7.5°	704.0	704.7	705.3	705.6	705.3	704.7	704.0	702.0	700.1	698.4	697.1
10°	711.5	712.5	713.8	714.4	713.8	712.5	711.5	709.2	706.6	704.0	702.0
12.5°	714.8	715.8	717.4	717.1	717.4	715.8	714.8	711.5	708.6	705.0	702.0
15°	712.5	713.8	715.4	716.1	715.4	713.8	712.5	709.2	706.6	702.7	699.7
17.5°	705.3	707.3	708.2	709.2	708.2	707.3	705.3	702.7	699.1	695.8	692.9
20°	695.5	696.8	698.1	698.4	698.1	696.8	695.5	692.6	687.0	686.3	684.0
22.5°	681.4	682.4	685.4	684.4	685.4	682.4	681.4	678.8	676.9	673.3	671.0
25°	661.2	662.1	662.5	662.8	662.5	662.1	661.2	658.9	656.9	654.3	653.0
27.5°	626.2	626.2	626.8	627.2	626.8	626.2	626.2	624.5	623.2	621.9	620.6
30°	573.2	573.2	573.2	574.8	573.2	573.2	573.2	572.9	572.9	573.2	573.2
32.5°	512.1	511.4	510.7	511.4	510.7	511.4	512.1	512.4	512.1	513.0	514.7
35°	442.7	442.4	443.4	442.1	443.4	442.4	442.7	442.7	444.0	445.4	445.7
37.5°	376.3	375.7	377.0	375.7	377.0	375.7	376.3	376.0	375.7	376.3	375.4
40°	313.3	313.9	313.9	316.5	313.9	313.9	313.3	312.6	310.3	309.0	307.7
42.5°	252.8	254.7	254.1	256.0	254.1	254.7	252.8	251.5	248.8	246.5	244.6
45°	195.5	196.8	196.8	197.5	196.8	196.8	195.5	194.2	191.9	190.0	188.7
47.5°	150.1	150.1	150.1	150.4	150.1	150.1	150.1	147.8	147.1	145.8	144.2
50°	114.1	114.4	114.8	115.1	114.8	114.4	114.1	113.5	113.1	112.5	112.2
52.5°	87.6	88.0	87.3	88.0	87.3	88.0	87.6	88.0	87.0	87.0	86.6
55°	66.4	66.1	66.4	66.7	66.4	66.1	66.4	66.4	66.1	66.1	66.1
57.5°	48.7	48.1	48.1	48.1	48.1	48.1	48.7	48.4	49.4	48.7	49.0
60°	36.3	36.6	36.6	36.9	36.6	36.6	36.3	36.9	36.9	37.3	37.3
62.5°	26.8	27.8	27.1	27.8	27.1	27.8	26.8	27.1	27.1	27.5	27.8
65°	17.3	17.3	17.3	17.7	17.3	17.3	17.3	17.7	18.0	17.7	18.6
67.5°	11.8	12.1	12.8	12.4	12.8	12.1	11.8	12.1	12.1	13.1	12.8
70°	9.5	8.5	8.5	9.5	8.5	8.5	9.5	8.8	8.5	9.2	8.8
72.5°	5.6	4.9	5.6	5.6	5.6	4.9	5.6	4.9	5.2	5.2	5.9
75°	2.9	2.6	2.3	3.3	2.3	2.6	2.9	2.9	2.9	2.9	3.3
77.5°	2.0	1.6	2.3	2.3	2.3	1.6	2.0	1.6	2.0	1.6	2.0
80°	1.0	1.3	1.0	1.6	1.0	1.3	1.0	1.6	1.0	1.3	1.3
82.5°	0.3	0.7	0.7	0.7	0.7	0.7	0.3	0.3	0.7	0.7	0.3
85°	0.0	0.7	0.3	0.3	0.3	0.7	0.0	0.0	0.0	0.0	0.0
87.5°	0.3	0.0	0.0	0.3	0.0	0.0	0.3	0.0	0.0	0.0	0.0
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: P245017

CATALOG NUMBER: LSR8B15D010 EC8B159730 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	669.7	669.7	669.7	669.7	669.7	669.7	669.7	669.7	669.7	669.7	669.7
2.5°	676.5	675.5	675.9	673.9	673.9	673.3	673.6	671.9	671.3	670.6	671.6
5°	686.3	684.7	683.4	680.5	678.8	676.9	675.9	673.3	671.0	669.0	668.7
7.5°	694.2	690.6	688.3	684.4	681.4	679.1	675.9	672.3	669.3	666.7	664.8
10°	697.5	693.9	690.3	685.4	682.1	677.8	674.6	670.0	666.1	662.5	660.2
12.5°	697.8	693.2	689.9	684.4	680.1	675.5	671.9	666.7	662.1	658.5	654.9
15°	694.8	690.6	686.7	680.8	676.5	672.3	668.0	662.5	658.2	654.0	651.4
17.5°	688.3	684.4	679.8	674.2	670.3	666.4	661.8	657.2	652.3	647.7	644.5
20°	679.8	675.5	671.6	666.1	662.8	658.5	654.3	649.4	645.5	640.9	637.3
22.5°	667.0	663.1	659.5	656.3	651.0	647.7	644.8	639.3	635.3	631.1	627.2
25°	648.7	644.8	641.9	637.9	635.6	632.1	629.1	624.2	620.6	616.7	613.4
27.5°	618.6	616.4	614.7	612.4	610.5	608.8	607.2	603.3	600.7	597.1	593.8
30°	573.5	573.2	572.2	571.2	572.5	572.5	572.5	571.9	569.6	567.0	564.7
32.5°	515.6	516.3	517.6	518.6	521.2	524.2	526.8	528.1	528.1	526.4	525.5
35°	446.7	447.6	449.6	452.2	455.5	459.1	465.0	466.3	467.3	467.3	465.9
37.5°	375.0	374.7	376.7	379.0	380.9	383.5	387.8	388.8	390.4	389.8	388.4
40°	305.4	303.8	303.1	303.8	306.1	305.1	306.1	305.4	305.4	303.1	303.1
42.5°	241.0	239.0	237.7	236.7	236.7	234.4	232.8	231.2	230.2	228.6	228.2
45°	185.7	183.4	181.8	181.1	180.2	177.2	175.3	173.3	171.0	170.4	170.7
47.5°	144.2	141.9	141.3	139.6	138.0	136.4	135.0	132.8	132.4	131.1	132.4
50°	111.2	110.5	109.5	108.9	107.9	106.6	105.3	104.0	103.3	103.3	103.6
52.5°	86.3	86.6	85.7	84.7	84.0	84.0	82.4	82.1	82.1	80.8	82.1
55°	66.1	65.7	66.1	65.4	65.4	64.4	64.4	63.4	63.4	62.4	63.1
57.5°	48.4	49.0	48.4	48.7	49.4	48.4	48.1	47.1	47.7	47.1	47.4
60°	37.6	37.6	37.6	37.3	37.3	36.9	36.9	36.6	36.6	36.0	36.6
62.5°	27.8	28.1	28.1	28.1	28.5	28.1	27.8	28.1	27.8	27.8	28.1
65°	18.3	18.6	18.6	18.3	19.0	18.3	18.6	19.0	19.3	19.0	19.3
67.5°	12.4	12.4	12.8	13.1	12.8	13.1	13.4	13.1	13.4	14.1	13.4
70°	9.2	9.5	9.5	9.2	8.8	9.2	8.8	9.8	9.8	9.8	10.5
72.5°	5.9	5.9	5.6	5.6	5.6	5.6	5.6	6.5	5.9	5.6	6.2
75°	3.3	3.6	3.6	2.6	2.9	3.6	2.6	2.9	3.9	3.3	3.9
77.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.6	2.3	2.3	2.3	2.6
80°	1.6	1.3	1.3	1.0	1.3	1.3	1.3	2.0	1.6	1.6	2.0
82.5°	0.7	0.7	0.3	0.0	0.7	0.7	0.7	0.7	0.7	0.7	1.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0
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: P245017

CATALOG NUMBER: LSR8B15D010 EC8B159730 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	669.7	669.7	669.7	669.7	669.7	669.7	669.7	669.7	669.7	669.7	669.7
2.5°	669.0	669.0	668.7	668.0	666.7	666.7	666.4	665.4	664.8	664.4	664.4
5°	665.7	664.4	663.1	659.5	659.5	658.9	656.9	655.6	654.9	653.3	652.7
7.5°	662.8	658.9	656.6	654.3	651.4	650.0	647.7	646.8	644.5	642.8	641.9
10°	655.6	653.0	650.0	646.4	644.2	641.5	638.9	637.0	634.0	632.4	631.1
12.5°	650.7	646.8	644.2	640.2	636.3	634.0	630.4	628.1	625.2	621.9	620.0
15°	646.1	641.9	638.3	634.0	629.8	627.2	622.9	620.3	616.0	612.8	610.5
17.5°	639.3	635.6	631.7	626.5	622.6	619.3	614.7	611.5	607.5	603.3	601.0
20°	632.1	627.8	623.9	618.6	614.7	610.8	606.2	602.6	598.0	594.1	591.5
22.5°	622.6	617.7	614.4	609.2	604.6	600.3	596.1	591.8	587.6	584.3	581.4
25°	608.8	603.6	600.0	595.8	591.5	588.2	583.0	580.4	576.1	573.2	570.3
27.5°	589.2	585.3	582.0	577.8	574.2	571.6	567.6	565.0	561.4	558.8	556.5
30°	560.5	557.2	554.2	550.0	547.4	545.1	541.5	539.2	536.6	533.6	533.0
32.5°	521.9	519.2	516.3	513.4	511.4	510.1	507.1	505.8	503.2	501.6	500.0
35°	463.7	461.4	459.7	458.4	457.8	458.1	457.5	458.8	459.4	459.1	459.4
37.5°	387.5	386.2	386.8	387.8	391.1	395.3	399.2	405.1	409.1	413.0	416.6
40°	302.5	303.4	306.1	311.9	320.4	329.9	338.8	349.9	361.0	368.8	376.0
42.5°	228.2	231.2	237.7	246.2	259.0	273.0	286.8	303.1	316.5	329.6	338.8
45°	171.7	175.6	184.1	195.9	209.9	226.3	243.6	261.9	277.9	291.3	301.5
47.5°	133.7	137.3	145.8	158.3	175.6	192.6	210.6	229.5	246.2	259.3	268.1
50°	105.6	110.2	117.7	130.8	148.1	166.1	184.7	203.4	219.1	230.2	238.0
52.5°	83.1	87.3	94.5	108.2	125.9	143.9	161.2	179.5	193.2	204.0	209.3
55°	64.4	68.3	75.9	87.3	104.0	121.6	139.0	154.7	167.4	175.3	180.2
57.5°	49.0	52.0	57.2	68.7	83.7	100.1	114.8	130.5	140.3	145.8	149.1
60°	37.3	39.6	45.1	54.0	67.7	81.7	94.2	105.9	113.8	118.4	121.6
62.5°	28.1	30.7	34.7	42.2	52.6	64.1	74.5	83.4	89.9	92.9	95.2
65°	19.3	21.3	24.2	30.1	38.9	47.1	55.3	61.8	66.1	69.3	70.6
67.5°	14.4	15.7	17.3	21.9	28.1	34.7	40.2	44.8	49.4	50.7	53.0
70°	10.8	11.8	13.4	16.7	20.3	24.8	29.4	32.0	35.3	37.6	38.3
72.5°	6.9	7.2	8.8	10.8	13.7	16.7	19.6	21.9	23.9	25.2	25.8
75°	3.9	5.9	5.9	7.8	9.8	11.1	13.1	14.7	15.7	16.7	16.7
77.5°	2.6	3.6	3.9	4.9	5.9	7.5	9.2	10.1	11.1	11.4	11.4
80°	2.3	2.6	2.6	3.6	4.3	5.6	6.5	6.9	7.5	7.8	8.5
82.5°	1.0	1.3	1.6	2.6	2.9	2.9	3.9	4.3	4.9	5.2	5.2
85°	0.3	0.7	0.7	1.0	1.6	2.0	2.3	2.6	2.9	2.9	3.3
87.5°	0.3	0.3	0.0	0.3	0.7	0.7	1.3	1.3	1.3	2.0	2.0
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: P245017

CATALOG NUMBER: LSR8B15D010 EC8B159730 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	669.7	669.7	669.7	669.7	669.7	669.7	669.7
2.5°	663.8	664.1	662.8	662.5	661.8	662.1	662.8
5°	651.7	652.0	650.7	649.4	649.4	649.1	649.4
7.5°	640.2	640.6	638.6	637.9	636.6	637.0	637.0
10°	628.8	628.8	625.8	625.5	624.5	624.2	624.2
12.5°	617.7	616.7	614.4	613.1	613.7	611.8	611.8
15°	607.9	606.2	603.3	602.3	600.7	600.0	600.0
17.5°	597.7	596.4	593.8	591.8	589.9	589.6	589.9
20°	587.9	586.6	583.3	582.0	580.4	580.4	579.7
22.5°	578.1	576.8	573.9	572.9	570.6	570.6	570.9
25°	568.0	567.0	563.7	563.1	562.7	561.4	562.1
27.5°	554.2	553.6	551.0	550.0	548.7	548.4	549.0
30°	529.1	528.1	526.1	525.1	522.8	523.2	523.8
32.5°	497.7	496.4	493.7	492.8	490.8	490.1	490.5
35°	458.4	457.5	455.2	455.2	453.2	452.5	453.2
37.5°	418.5	419.5	418.5	419.5	418.5	418.2	418.5
40°	380.9	384.5	385.2	388.8	387.5	389.4	389.1
42.5°	345.0	350.8	353.1	356.1	355.4	356.7	357.7
45°	308.7	313.6	315.9	317.8	318.2	318.8	319.1
47.5°	274.3	278.3	278.6	280.9	280.5	280.5	281.5
50°	242.3	244.9	245.6	247.2	245.9	245.2	245.6
52.5°	212.5	215.2	214.5	215.2	213.5	212.9	213.2
55°	182.1	183.4	183.4	183.4	181.5	181.5	181.5
57.5°	151.1	151.4	150.7	151.1	150.7	148.8	148.5
60°	122.6	122.6	122.3	122.6	121.6	120.7	120.7
62.5°	95.8	96.5	97.8	96.5	95.8	96.5	95.5
65°	71.6	72.9	72.6	73.2	72.9	72.9	72.3
67.5°	54.0	54.3	54.6	54.9	54.9	54.9	54.9
70°	39.6	40.6	40.2	40.2	40.2	40.2	42.2
72.5°	26.5	27.8	27.5	28.1	28.1	28.8	28.1
75°	18.0	19.3	18.6	19.6	19.3	18.6	20.3
77.5°	12.1	12.8	13.1	13.4	13.1	12.8	13.1
80°	8.5	9.2	8.8	9.2	9.2	9.2	9.5
82.5°	5.2	6.2	5.9	6.2	5.9	6.2	6.2
85°	3.6	3.9	3.3	3.9	3.6	3.6	4.3
87.5°	2.3	2.0	2.0	2.3	2.0	2.3	2.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)