

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: P245947

Luminaire Tested: **LD8B15D010 ER8B159727 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245947
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: LD8B15D010 ER8B159727 8LBSW0B
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 2700 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 822.0 lumens
Efficiency: N/A
Efficacy: 57.1 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

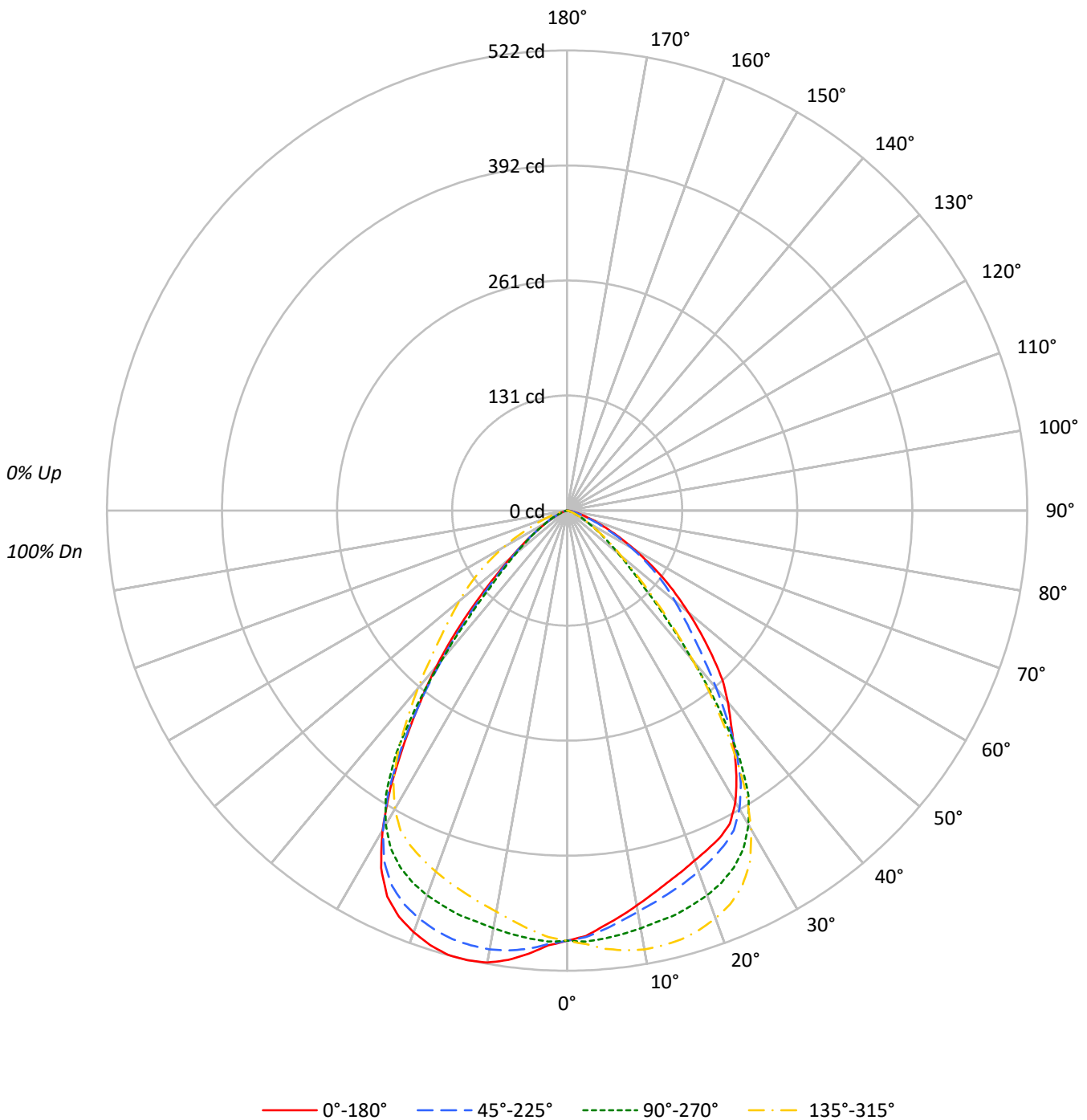
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	46.4	5.7
10°-20°	134.5	16.4
20°-30°	203.7	24.8
30°-40°	204.1	24.8
40°-50°	128.2	15.6
50°-60°	68.3	8.3
60°-70°	28.1	3.4
70°-80°	7.4	0.9
80°-90°	1.3	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°	384.6	46.8
0°-40°	588.7	71.6
0°-60°	785.2	95.5
0°-90°	822.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	822.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	488	488	488	488	488	
5°	473	487	505	487	473	45
15°	437	475	522	475	437	124
25°	410	447	483	447	410	188
35°	330	340	322	340	330	207
45°	233	124	144	124	233	179
55°	132	46	49	46	132	118
65°	53	14	13	14	53	55
75°	15	3	2	3	15	17
85°	3	0	0	0	3	3
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0
2.5°	483.0	482.5	482.3	482.8	483.0	483.9	483.7	484.2	484.2	484.4	484.9
5°	473.2	473.0	473.2	473.2	474.2	475.1	474.9	475.6	476.1	477.3	477.7
7.5°	464.2	464.2	463.9	464.9	465.4	466.8	466.5	467.7	468.5	469.6	471.3
10°	454.9	454.9	455.1	455.8	456.1	458.2	458.2	459.9	460.8	462.0	464.2
12.5°	445.8	445.8	447.3	446.8	447.7	449.4	450.1	451.8	453.2	455.6	457.7
15°	437.2	437.2	437.7	438.9	439.6	441.8	443.0	444.9	446.5	448.9	452.0
17.5°	429.9	429.6	429.9	431.3	432.7	434.6	435.6	438.0	439.6	442.7	445.6
20°	422.5	423.0	423.0	424.1	425.1	427.5	428.4	431.1	433.0	435.8	439.2
22.5°	416.0	415.8	415.8	417.5	418.2	420.3	421.3	423.7	425.8	428.2	431.3
25°	409.6	409.1	410.1	410.3	410.8	413.2	413.9	415.6	417.7	419.9	423.0
27.5°	400.1	399.6	399.8	400.8	401.5	403.4	403.9	405.6	407.2	409.1	411.7
30°	381.7	381.2	381.0	382.7	383.4	384.8	385.5	388.4	388.9	391.0	392.9
32.5°	357.4	357.2	357.7	359.1	359.8	361.7	362.7	364.3	365.5	366.7	368.6
35°	330.3	329.8	330.3	331.7	331.7	333.4	334.1	334.8	334.5	334.8	334.3
37.5°	305.0	304.8	305.0	305.7	305.0	305.7	305.0	303.6	301.0	298.1	295.2
40°	283.6	283.8	282.4	283.3	280.7	280.2	277.6	274.0	268.8	263.1	255.0
42.5°	260.7	260.0	259.0	259.5	257.3	255.7	251.4	246.9	240.2	230.7	220.9
45°	232.6	232.3	231.8	231.6	230.2	228.5	224.9	219.7	212.3	202.5	190.9
47.5°	205.2	204.4	204.4	204.7	203.0	202.8	199.9	195.4	189.0	179.4	167.3
50°	178.9	178.7	179.2	180.1	178.9	178.5	176.6	173.5	167.8	159.7	148.2
52.5°	155.4	155.1	155.6	156.8	156.3	156.8	154.9	152.5	148.7	140.8	130.8
55°	132.2	132.2	132.2	133.7	133.7	133.7	132.7	131.3	127.7	122.0	112.7
57.5°	108.2	108.4	109.8	110.1	109.8	110.3	110.1	108.7	106.3	102.2	95.1
60°	87.9	87.9	88.6	89.4	89.1	89.4	89.4	88.6	86.3	82.9	77.2
62.5°	69.6	70.3	69.8	70.3	71.2	70.3	69.8	69.3	67.7	65.5	60.8
65°	52.7	53.1	53.1	53.4	52.9	53.1	52.2	51.5	50.5	48.1	45.0
67.5°	40.0	40.0	40.0	40.0	39.8	39.6	39.3	38.6	36.9	36.0	32.6
70°	30.7	29.3	29.3	29.3	29.3	29.6	28.8	27.9	27.4	25.7	23.4
72.5°	20.5	21.0	20.5	20.5	20.0	20.3	19.3	18.8	18.4	17.4	16.0
75°	14.8	13.6	14.1	14.3	13.6	14.1	13.1	12.2	12.2	11.4	10.7
77.5°	9.5	9.3	9.5	9.8	9.5	9.3	8.8	8.3	8.3	8.1	7.4
80°	6.9	6.7	6.7	6.7	6.4	6.7	6.2	6.2	5.7	5.5	5.0
82.5°	4.5	4.5	4.3	4.5	4.3	4.5	3.8	3.8	3.8	3.6	3.1
85°	3.1	2.6	2.6	2.9	2.4	2.9	2.6	2.4	2.1	2.1	1.9
87.5°	1.4	1.7	1.4	1.7	1.4	1.4	1.7	1.4	1.4	1.0	1.0
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0
2.5°	485.6	485.8	485.8	486.8	487.3	487.5	487.5	489.4	488.7	489.2	489.7
5°	478.7	480.1	480.6	480.6	483.2	484.2	485.1	487.3	487.5	488.9	490.6
7.5°	472.0	473.7	474.7	476.8	478.5	480.1	483.0	484.4	485.8	487.8	489.9
10°	465.6	467.5	469.4	471.1	473.7	475.8	477.7	481.1	482.8	485.4	488.2
12.5°	459.4	462.0	463.7	466.5	469.4	471.3	474.2	477.3	479.9	482.5	485.8
15°	453.9	457.0	458.9	462.0	465.1	467.7	470.8	474.7	476.6	479.7	482.8
17.5°	448.0	451.3	453.7	456.5	460.4	463.2	465.8	469.6	472.0	475.4	478.9
20°	441.8	445.1	448.0	450.8	454.6	457.5	460.6	464.4	467.0	470.4	473.2
22.5°	434.4	437.5	440.6	443.9	447.7	450.1	453.7	457.0	459.9	463.0	465.8
25°	424.9	428.7	431.1	434.1	437.2	439.9	443.7	447.0	449.4	452.3	454.9
27.5°	413.7	416.5	418.4	421.0	424.1	426.5	429.4	432.7	435.1	437.7	439.6
30°	394.6	397.2	398.9	400.8	403.9	406.0	408.4	411.5	413.2	415.1	416.8
32.5°	369.6	371.7	372.7	374.1	376.2	378.4	380.3	382.9	383.6	384.8	384.8
35°	333.4	333.8	333.6	334.1	335.0	336.2	337.9	339.5	340.5	340.5	339.8
37.5°	290.9	288.1	285.0	282.6	281.9	281.4	282.4	283.1	284.0	284.5	283.3
40°	246.9	240.4	233.5	227.3	223.0	221.1	220.4	220.9	220.9	222.5	222.5
42.5°	209.0	199.0	188.7	179.4	173.2	168.5	166.3	166.3	166.6	167.8	168.5
45°	177.5	164.9	153.0	142.7	134.2	128.0	125.1	124.4	124.1	124.6	126.3
47.5°	153.5	140.3	128.0	115.3	106.3	100.1	97.5	96.5	95.5	96.5	96.7
50°	134.6	121.0	107.9	95.3	85.8	80.3	77.0	75.5	75.3	75.3	75.8
52.5°	117.5	104.8	91.7	78.9	68.9	63.6	60.5	59.8	58.9	59.8	59.8
55°	101.3	88.6	75.8	63.6	55.3	49.8	46.9	46.0	45.5	46.2	46.2
57.5°	83.6	72.9	61.0	50.0	41.7	37.9	35.7	34.6	34.3	34.8	34.3
60°	68.6	59.6	49.3	39.3	32.9	28.8	27.2	26.7	26.2	26.7	26.7
62.5°	54.3	46.7	38.4	30.7	25.3	22.4	20.5	20.5	20.3	20.3	20.5
65°	40.3	34.3	28.4	21.9	17.6	15.5	14.1	14.1	13.8	14.1	13.8
67.5°	29.3	25.3	20.5	16.0	12.6	11.4	10.5	9.8	10.2	9.8	9.5
70°	21.4	18.1	14.8	12.2	9.8	8.6	7.9	7.6	7.1	7.1	7.1
72.5°	14.3	12.2	10.0	7.9	6.4	5.2	5.0	4.5	4.1	4.3	4.8
75°	9.5	8.1	7.1	5.7	4.3	4.3	2.9	2.9	2.4	2.9	2.1
77.5°	6.7	5.5	4.3	3.6	2.9	2.6	1.9	1.9	1.7	1.7	1.7
80°	4.8	4.1	3.1	2.6	1.9	1.9	1.7	1.4	1.2	1.2	1.4
82.5°	2.9	2.1	2.1	1.9	1.2	1.0	0.7	1.0	0.5	0.5	0.5
85°	1.7	1.4	1.2	0.7	0.5	0.5	0.2	0.0	0.2	0.2	0.0
87.5°	1.0	0.5	0.5	0.2	0.0	0.2	0.2	0.0	0.0	0.0	0.5
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0
2.5°	490.9	490.6	491.1	491.1	492.5	492.3	493.0	493.0	492.5	492.8	493.7
5°	492.5	493.2	494.7	495.9	498.0	499.0	500.1	501.3	501.6	502.3	503.0
7.5°	492.5	494.9	496.6	498.7	501.6	503.2	505.9	508.0	509.0	510.2	511.6
10°	491.6	493.9	497.0	499.4	503.0	505.6	508.2	511.6	513.0	514.9	516.8
12.5°	489.7	492.3	495.6	498.7	502.8	505.1	508.5	511.6	513.7	516.3	518.5
15°	486.8	489.9	493.0	496.1	500.4	503.2	506.3	509.9	512.1	514.9	516.8
17.5°	482.3	485.6	488.5	491.3	495.4	498.7	501.6	504.9	507.1	509.4	512.1
20°	476.8	479.9	483.0	485.4	489.4	492.3	495.4	498.5	500.1	500.6	504.7
22.5°	469.9	472.0	474.4	478.2	480.6	483.2	486.1	488.9	490.6	493.2	494.7
25°	458.4	460.6	463.2	464.9	467.7	469.9	472.7	475.8	476.8	478.7	480.1
27.5°	442.5	443.7	444.9	446.3	448.0	449.2	450.8	452.3	453.2	454.2	455.1
30°	417.2	417.2	417.2	416.3	417.0	417.7	417.9	417.7	417.7	417.5	417.5
32.5°	383.9	382.0	379.8	377.9	377.2	376.2	375.8	375.0	373.9	373.1	373.4
35°	338.8	334.5	331.9	329.5	327.6	326.2	325.5	324.8	324.5	323.6	322.6
37.5°	282.6	279.5	277.6	276.2	274.5	273.1	273.3	273.5	274.3	273.8	274.0
40°	223.0	222.3	223.0	221.4	220.9	221.4	222.5	224.2	225.2	226.1	227.8
42.5°	169.7	170.8	172.5	172.5	173.2	174.2	175.6	178.2	179.7	181.3	183.2
45°	127.7	129.1	131.3	132.0	132.5	133.7	135.3	137.5	138.4	139.9	141.5
47.5°	98.4	99.4	100.5	101.7	102.9	103.4	105.1	105.1	106.3	107.2	107.7
50°	76.7	77.7	78.6	79.3	79.8	80.5	81.0	81.7	82.0	82.4	82.7
52.5°	60.0	61.2	61.2	61.7	62.4	63.1	62.9	63.1	63.4	63.4	64.1
55°	46.9	46.9	47.7	47.7	48.1	47.9	48.1	48.1	48.1	48.1	48.4
57.5°	35.0	35.3	36.0	35.5	35.3	35.7	35.3	35.7	35.5	36.0	35.3
60°	26.9	26.9	27.2	27.2	27.4	27.4	27.4	27.2	27.2	26.9	26.9
62.5°	20.3	20.5	20.7	20.5	20.5	20.5	20.3	20.3	20.0	19.8	19.8
65°	13.6	13.3	13.8	13.3	13.6	13.6	13.3	13.6	12.9	13.1	12.9
67.5°	9.8	9.5	9.3	9.5	9.3	9.1	9.1	9.3	9.5	8.8	8.8
70°	6.4	6.7	6.4	6.7	6.9	6.9	6.7	6.4	6.7	6.2	6.4
72.5°	4.1	4.1	4.1	4.1	4.1	4.3	4.3	4.3	3.8	3.8	3.6
75°	1.9	2.6	2.1	1.9	2.6	2.6	2.4	2.4	2.1	2.1	2.1
77.5°	1.9	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.2	1.4	1.2
80°	1.0	1.0	1.0	0.7	1.0	1.0	1.2	1.0	1.0	0.7	1.2
82.5°	0.5	0.5	0.5	0.0	0.2	0.5	0.5	0.2	0.5	0.5	0.2
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



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0
2.5°	493.5	493.2	493.5	493.7	493.5	493.2	493.5	493.7	492.8	492.5	493.0
5°	504.0	504.0	504.4	504.7	504.4	504.0	504.0	503.0	502.3	501.6	501.3
7.5°	513.0	513.5	514.0	514.2	514.0	513.5	513.0	511.6	510.2	509.0	508.0
10°	518.5	519.2	520.2	520.6	520.2	519.2	518.5	516.8	514.9	513.0	511.6
12.5°	520.9	521.6	522.8	522.5	522.8	521.6	520.9	518.5	516.3	513.7	511.6
15°	519.2	520.2	521.4	521.8	521.4	520.2	519.2	516.8	514.9	512.1	509.9
17.5°	514.0	515.4	516.1	516.8	516.1	515.4	514.0	512.1	509.4	507.1	504.9
20°	506.8	507.8	508.7	509.0	508.7	507.8	506.8	504.7	500.6	500.1	498.5
22.5°	496.6	497.3	499.4	498.7	499.4	497.3	496.6	494.7	493.2	490.6	488.9
25°	481.8	482.5	482.8	483.0	482.8	482.5	481.8	480.1	478.7	476.8	475.8
27.5°	456.3	456.3	456.8	457.0	456.8	456.3	456.3	455.1	454.2	453.2	452.3
30°	417.7	417.7	417.7	418.9	417.7	417.7	417.7	417.5	417.5	417.7	417.7
32.5°	373.1	372.7	372.2	372.7	372.2	372.7	373.1	373.4	373.1	373.9	375.0
35°	322.6	322.4	323.1	322.2	323.1	322.4	322.6	322.6	323.6	324.5	324.8
37.5°	274.3	273.8	274.7	273.8	274.7	273.8	274.3	274.0	273.8	274.3	273.5
40°	228.3	228.7	228.7	230.7	228.7	228.7	228.3	227.8	226.1	225.2	224.2
42.5°	184.2	185.6	185.1	186.6	185.1	185.6	184.2	183.2	181.3	179.7	178.2
45°	142.5	143.4	143.4	143.9	143.4	143.4	142.5	141.5	139.9	138.4	137.5
47.5°	109.4	109.4	109.4	109.6	109.4	109.4	109.4	107.7	107.2	106.3	105.1
50°	83.2	83.4	83.6	83.9	83.6	83.4	83.2	82.7	82.4	82.0	81.7
52.5°	63.9	64.1	63.6	64.1	63.6	64.1	63.9	64.1	63.4	63.4	63.1
55°	48.4	48.1	48.4	48.6	48.4	48.1	48.4	48.4	48.1	48.1	48.1
57.5°	35.5	35.0	35.0	35.0	35.0	35.0	35.5	35.3	36.0	35.5	35.7
60°	26.5	26.7	26.7	26.9	26.7	26.7	26.5	26.9	26.9	27.2	27.2
62.5°	19.5	20.3	19.8	20.3	19.8	20.3	19.5	19.8	19.8	20.0	20.3
65°	12.6	12.6	12.6	12.9	12.6	12.6	12.6	12.9	13.1	12.9	13.6
67.5°	8.6	8.8	9.3	9.1	9.3	8.8	8.6	8.8	8.8	9.5	9.3
70°	6.9	6.2	6.2	6.9	6.2	6.2	6.9	6.4	6.2	6.7	6.4
72.5°	4.1	3.6	4.1	4.1	4.1	3.6	4.1	3.6	3.8	3.8	4.3
75°	2.1	1.9	1.7	2.4	1.7	1.9	2.1	2.1	2.1	2.1	2.4
77.5°	1.4	1.2	1.7	1.7	1.7	1.2	1.4	1.2	1.4	1.2	1.4
80°	0.7	1.0	0.7	1.2	0.7	1.0	0.7	1.2	0.7	1.0	1.0
82.5°	0.2	0.5	0.5	0.5	0.5	0.5	0.2	0.2	0.5	0.5	0.2
85°	0.0	0.5	0.2	0.2	0.2	0.5	0.0	0.0	0.0	0.0	0.0
87.5°	0.2	0.0	0.0	0.2	0.0	0.0	0.2	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



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0
2.5°	493.0	492.3	492.5	491.1	491.1	490.6	490.9	489.7	489.2	488.7	489.4
5°	500.1	499.0	498.0	495.9	494.7	493.2	492.5	490.6	488.9	487.5	487.3
7.5°	505.9	503.2	501.6	498.7	496.6	494.9	492.5	489.9	487.8	485.8	484.4
10°	508.2	505.6	503.0	499.4	497.0	493.9	491.6	488.2	485.4	482.8	481.1
12.5°	508.5	505.1	502.8	498.7	495.6	492.3	489.7	485.8	482.5	479.9	477.3
15°	506.3	503.2	500.4	496.1	493.0	489.9	486.8	482.8	479.7	476.6	474.7
17.5°	501.6	498.7	495.4	491.3	488.5	485.6	482.3	478.9	475.4	472.0	469.6
20°	495.4	492.3	489.4	485.4	483.0	479.9	476.8	473.2	470.4	467.0	464.4
22.5°	486.1	483.2	480.6	478.2	474.4	472.0	469.9	465.8	463.0	459.9	457.0
25°	472.7	469.9	467.7	464.9	463.2	460.6	458.4	454.9	452.3	449.4	447.0
27.5°	450.8	449.2	448.0	446.3	444.9	443.7	442.5	439.6	437.7	435.1	432.7
30°	417.9	417.7	417.0	416.3	417.2	417.2	417.2	416.8	415.1	413.2	411.5
32.5°	375.8	376.2	377.2	377.9	379.8	382.0	383.9	384.8	384.8	383.6	382.9
35°	325.5	326.2	327.6	329.5	331.9	334.5	338.8	339.8	340.5	340.5	339.5
37.5°	273.3	273.1	274.5	276.2	277.6	279.5	282.6	283.3	284.5	284.0	283.1
40°	222.5	221.4	220.9	221.4	223.0	222.3	223.0	222.5	222.5	220.9	220.9
42.5°	175.6	174.2	173.2	172.5	172.5	170.8	169.7	168.5	167.8	166.6	166.3
45°	135.3	133.7	132.5	132.0	131.3	129.1	127.7	126.3	124.6	124.1	124.4
47.5°	105.1	103.4	102.9	101.7	100.5	99.4	98.4	96.7	96.5	95.5	96.5
50°	81.0	80.5	79.8	79.3	78.6	77.7	76.7	75.8	75.3	75.3	75.5
52.5°	62.9	63.1	62.4	61.7	61.2	61.2	60.0	59.8	59.8	58.9	59.8
55°	48.1	47.9	48.1	47.7	47.7	46.9	46.9	46.2	46.2	45.5	46.0
57.5°	35.3	35.7	35.3	35.5	36.0	35.3	35.0	34.3	34.8	34.3	34.6
60°	27.4	27.4	27.4	27.2	27.2	26.9	26.9	26.7	26.7	26.2	26.7
62.5°	20.3	20.5	20.5	20.5	20.7	20.5	20.3	20.5	20.3	20.3	20.5
65°	13.3	13.6	13.6	13.3	13.8	13.3	13.6	13.8	14.1	13.8	14.1
67.5°	9.1	9.1	9.3	9.5	9.3	9.5	9.8	9.5	9.8	10.2	9.8
70°	6.7	6.9	6.9	6.7	6.4	6.7	6.4	7.1	7.1	7.1	7.6
72.5°	4.3	4.3	4.1	4.1	4.1	4.1	4.1	4.8	4.3	4.1	4.5
75°	2.4	2.6	2.6	1.9	2.1	2.6	1.9	2.1	2.9	2.4	2.9
77.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.9	1.7	1.7	1.7	1.9
80°	1.2	1.0	1.0	0.7	1.0	1.0	1.0	1.4	1.2	1.2	1.4
82.5°	0.5	0.5	0.2	0.0	0.5	0.5	0.5	0.5	0.5	0.5	1.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	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: P245947

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0	488.0
2.5°	487.5	487.5	487.3	486.8	485.8	485.8	485.6	484.9	484.4	484.2	484.2
5°	485.1	484.2	483.2	480.6	480.6	480.1	478.7	477.7	477.3	476.1	475.6
7.5°	483.0	480.1	478.5	476.8	474.7	473.7	472.0	471.3	469.6	468.5	467.7
10°	477.7	475.8	473.7	471.1	469.4	467.5	465.6	464.2	462.0	460.8	459.9
12.5°	474.2	471.3	469.4	466.5	463.7	462.0	459.4	457.7	455.6	453.2	451.8
15°	470.8	467.7	465.1	462.0	458.9	457.0	453.9	452.0	448.9	446.5	444.9
17.5°	465.8	463.2	460.4	456.5	453.7	451.3	448.0	445.6	442.7	439.6	438.0
20°	460.6	457.5	454.6	450.8	448.0	445.1	441.8	439.2	435.8	433.0	431.1
22.5°	453.7	450.1	447.7	443.9	440.6	437.5	434.4	431.3	428.2	425.8	423.7
25°	443.7	439.9	437.2	434.1	431.1	428.7	424.9	423.0	419.9	417.7	415.6
27.5°	429.4	426.5	424.1	421.0	418.4	416.5	413.7	411.7	409.1	407.2	405.6
30°	408.4	406.0	403.9	400.8	398.9	397.2	394.6	392.9	391.0	388.9	388.4
32.5°	380.3	378.4	376.2	374.1	372.7	371.7	369.6	368.6	366.7	365.5	364.3
35°	337.9	336.2	335.0	334.1	333.6	333.8	333.4	334.3	334.8	334.5	334.8
37.5°	282.4	281.4	281.9	282.6	285.0	288.1	290.9	295.2	298.1	301.0	303.6
40°	220.4	221.1	223.0	227.3	233.5	240.4	246.9	255.0	263.1	268.8	274.0
42.5°	166.3	168.5	173.2	179.4	188.7	199.0	209.0	220.9	230.7	240.2	246.9
45°	125.1	128.0	134.2	142.7	153.0	164.9	177.5	190.9	202.5	212.3	219.7
47.5°	97.5	100.1	106.3	115.3	128.0	140.3	153.5	167.3	179.4	189.0	195.4
50°	77.0	80.3	85.8	95.3	107.9	121.0	134.6	148.2	159.7	167.8	173.5
52.5°	60.5	63.6	68.9	78.9	91.7	104.8	117.5	130.8	140.8	148.7	152.5
55°	46.9	49.8	55.3	63.6	75.8	88.6	101.3	112.7	122.0	127.7	131.3
57.5°	35.7	37.9	41.7	50.0	61.0	72.9	83.6	95.1	102.2	106.3	108.7
60°	27.2	28.8	32.9	39.3	49.3	59.6	68.6	77.2	82.9	86.3	88.6
62.5°	20.5	22.4	25.3	30.7	38.4	46.7	54.3	60.8	65.5	67.7	69.3
65°	14.1	15.5	17.6	21.9	28.4	34.3	40.3	45.0	48.1	50.5	51.5
67.5°	10.5	11.4	12.6	16.0	20.5	25.3	29.3	32.6	36.0	36.9	38.6
70°	7.9	8.6	9.8	12.2	14.8	18.1	21.4	23.4	25.7	27.4	27.9
72.5°	5.0	5.2	6.4	7.9	10.0	12.2	14.3	16.0	17.4	18.4	18.8
75°	2.9	4.3	4.3	5.7	7.1	8.1	9.5	10.7	11.4	12.2	12.2
77.5°	1.9	2.6	2.9	3.6	4.3	5.5	6.7	7.4	8.1	8.3	8.3
80°	1.7	1.9	1.9	2.6	3.1	4.1	4.8	5.0	5.5	5.7	6.2
82.5°	0.7	1.0	1.2	1.9	2.1	2.1	2.9	3.1	3.6	3.8	3.8
85°	0.2	0.5	0.5	0.7	1.2	1.4	1.7	1.9	2.1	2.1	2.4
87.5°	0.2	0.2	0.0	0.2	0.5	0.5	1.0	1.0	1.0	1.4	1.4
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: P245947

CATALOG NUMBER: LD8B15D010 ER8B159727 8LBSW0B

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	488.0	488.0	488.0	488.0	488.0	488.0	488.0
2.5°	483.7	483.9	483.0	482.8	482.3	482.5	483.0
5°	474.9	475.1	474.2	473.2	473.2	473.0	473.2
7.5°	466.5	466.8	465.4	464.9	463.9	464.2	464.2
10°	458.2	458.2	456.1	455.8	455.1	454.9	454.9
12.5°	450.1	449.4	447.7	446.8	447.3	445.8	445.8
15°	443.0	441.8	439.6	438.9	437.7	437.2	437.2
17.5°	435.6	434.6	432.7	431.3	429.9	429.6	429.9
20°	428.4	427.5	425.1	424.1	423.0	423.0	422.5
22.5°	421.3	420.3	418.2	417.5	415.8	415.8	416.0
25°	413.9	413.2	410.8	410.3	410.1	409.1	409.6
27.5°	403.9	403.4	401.5	400.8	399.8	399.6	400.1
30°	385.5	384.8	383.4	382.7	381.0	381.2	381.7
32.5°	362.7	361.7	359.8	359.1	357.7	357.2	357.4
35°	334.1	333.4	331.7	331.7	330.3	329.8	330.3
37.5°	305.0	305.7	305.0	305.7	305.0	304.8	305.0
40°	277.6	280.2	280.7	283.3	282.4	283.8	283.6
42.5°	251.4	255.7	257.3	259.5	259.0	260.0	260.7
45°	224.9	228.5	230.2	231.6	231.8	232.3	232.6
47.5°	199.9	202.8	203.0	204.7	204.4	204.4	205.2
50°	176.6	178.5	178.9	180.1	179.2	178.7	178.9
52.5°	154.9	156.8	156.3	156.8	155.6	155.1	155.4
55°	132.7	133.7	133.7	133.7	132.2	132.2	132.2
57.5°	110.1	110.3	109.8	110.1	109.8	108.4	108.2
60°	89.4	89.4	89.1	89.4	88.6	87.9	87.9
62.5°	69.8	70.3	71.2	70.3	69.8	70.3	69.6
65°	52.2	53.1	52.9	53.4	53.1	53.1	52.7
67.5°	39.3	39.6	39.8	40.0	40.0	40.0	40.0
70°	28.8	29.6	29.3	29.3	29.3	29.3	30.7
72.5°	19.3	20.3	20.0	20.5	20.5	21.0	20.5
75°	13.1	14.1	13.6	14.3	14.1	13.6	14.8
77.5°	8.8	9.3	9.5	9.8	9.5	9.3	9.5
80°	6.2	6.7	6.4	6.7	6.7	6.7	6.9
82.5°	3.8	4.5	4.3	4.5	4.3	4.5	4.5
85°	2.6	2.9	2.4	2.9	2.6	2.6	3.1
87.5°	1.7	1.4	1.4	1.7	1.4	1.7	1.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)