

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: P245016

Luminaire Tested: **LD8B10D010 ER8B109730 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245016
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: LD8B10D010 ER8B109730 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 832.0 lumens
Efficiency: N/A
Efficacy: 81.6 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

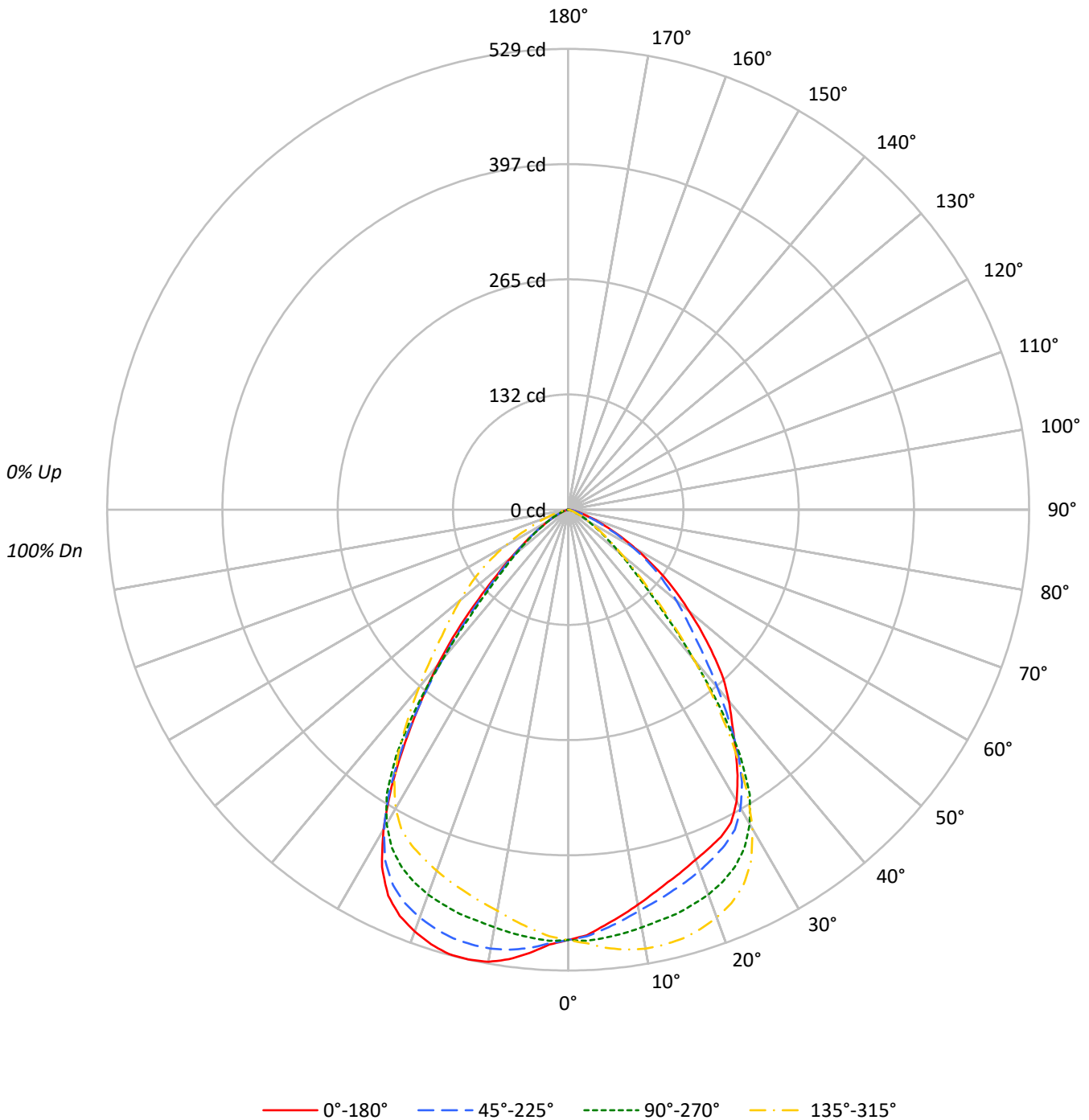
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	47.0	5.7
10°-20°	136.1	16.4
20°-30°	206.1	24.8
30°-40°	206.6	24.8
40°-50°	129.7	15.6
50°-60°	69.1	8.3
60°-70°	28.4	3.4
70°-80°	7.5	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°	389.3	46.8
0°-40°	595.9	71.6
0°-60°	794.8	95.5
0°-90°	832.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	832.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	494	494	494	494	494	
5°	479	493	511	493	479	45
15°	443	480	528	480	443	125
25°	415	452	489	452	415	190
35°	334	344	326	344	334	209
45°	235	126	146	126	235	181
55°	134	46	49	46	134	119
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°	493.9	493.9	493.9	493.9	493.9	493.9	493.9	493.9	493.9	493.9	493.9
2.5°	488.9	488.4	488.1	488.6	488.9	489.8	489.6	490.1	490.1	490.3	490.8
5°	479.0	478.7	479.0	479.0	479.9	480.9	480.7	481.4	481.9	483.1	483.6
7.5°	469.8	469.8	469.6	470.5	471.0	472.5	472.2	473.4	474.2	475.4	477.0
10°	460.4	460.4	460.6	461.4	461.6	463.8	463.8	465.5	466.4	467.6	469.8
12.5°	451.2	451.2	452.7	452.2	453.2	454.9	455.6	457.3	458.7	461.1	463.3
15°	442.6	442.6	443.0	444.2	445.0	447.1	448.3	450.3	452.0	454.4	457.5
17.5°	435.1	434.8	435.1	436.5	438.0	439.9	440.9	443.3	445.0	448.1	451.0
20°	427.6	428.1	428.1	429.3	430.3	432.7	433.6	436.3	438.2	441.1	444.5
22.5°	421.1	420.9	420.9	422.5	423.3	425.4	426.4	428.8	431.0	433.4	436.5
25°	414.6	414.1	415.1	415.3	415.8	418.2	418.9	420.6	422.8	425.0	428.1
27.5°	404.9	404.5	404.7	405.7	406.4	408.3	408.8	410.5	412.2	414.1	416.8
30°	386.4	385.9	385.6	387.3	388.1	389.5	390.2	393.1	393.6	395.8	397.7
32.5°	361.8	361.5	362.0	363.5	364.2	366.1	367.1	368.8	370.0	371.2	373.1
35°	334.3	333.8	334.3	335.7	335.7	337.4	338.1	338.9	338.6	338.9	338.4
37.5°	308.7	308.5	308.7	309.4	308.7	309.4	308.7	307.3	304.6	301.7	298.8
40°	287.0	287.2	285.8	286.8	284.1	283.6	281.0	277.4	272.1	266.3	258.1
42.5°	263.9	263.1	262.2	262.6	260.5	258.8	254.4	249.9	243.1	233.5	223.6
45°	235.4	235.2	234.7	234.4	233.0	231.3	227.7	222.4	214.9	205.0	193.2
47.5°	207.7	206.9	206.9	207.2	205.5	205.2	202.3	197.8	191.3	181.6	169.3
50°	181.1	180.9	181.4	182.3	181.1	180.6	178.7	175.6	169.8	161.6	150.0
52.5°	157.2	157.0	157.5	158.7	158.2	158.7	156.8	154.4	150.5	142.5	132.4
55°	133.9	133.9	133.9	135.3	135.3	135.3	134.3	132.9	129.3	123.5	114.1
57.5°	109.5	109.7	111.2	111.4	111.2	111.7	111.4	110.0	107.6	103.5	96.2
60°	89.0	89.0	89.7	90.4	90.2	90.4	90.4	89.7	87.3	83.9	78.1
62.5°	70.4	71.1	70.7	71.1	72.1	71.1	70.7	70.2	68.5	66.3	61.5
65°	53.3	53.8	53.8	54.0	53.5	53.8	52.8	52.1	51.1	48.7	45.6
67.5°	40.5	40.5	40.5	40.5	40.3	40.0	39.8	39.1	37.4	36.4	33.0
70°	31.1	29.7	29.7	29.7	29.7	29.9	29.2	28.2	27.7	26.0	23.6
72.5°	20.7	21.2	20.7	20.7	20.3	20.5	19.5	19.1	18.6	17.6	16.2
75°	15.0	13.7	14.2	14.5	13.7	14.2	13.3	12.3	12.3	11.6	10.9
77.5°	9.6	9.4	9.6	9.9	9.6	9.4	8.9	8.4	8.4	8.2	7.5
80°	7.0	6.8	6.8	6.8	6.5	6.8	6.3	6.3	5.8	5.5	5.1
82.5°	4.6	4.6	4.3	4.6	4.3	4.6	3.9	3.9	3.9	3.6	3.1
85°	3.1	2.7	2.7	2.9	2.4	2.9	2.7	2.4	2.2	2.2	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°	493.9	493.9	493.9	493.9	493.9	493.9	493.9	493.9	493.9	493.9	493.9
2.5°	491.5	491.8	491.8	492.7	493.2	493.4	493.4	495.4	494.7	495.1	495.6
5°	484.5	486.0	486.5	486.5	489.1	490.1	491.0	493.2	493.4	494.9	496.6
7.5°	477.8	479.5	480.4	482.6	484.3	486.0	488.9	490.3	491.8	493.7	495.9
10°	471.3	473.2	475.1	476.8	479.5	481.6	483.6	486.9	488.6	491.3	494.2
12.5°	465.0	467.6	469.3	472.2	475.1	477.0	479.9	483.1	485.7	488.4	491.8
15°	459.4	462.6	464.5	467.6	470.8	473.4	476.6	480.4	482.4	485.5	488.6
17.5°	453.4	456.8	459.2	462.1	466.0	468.8	471.5	475.4	477.8	481.1	484.8
20°	447.1	450.5	453.4	456.3	460.2	463.1	466.2	470.1	472.7	476.1	479.0
22.5°	439.7	442.8	445.9	449.3	453.2	455.6	459.2	462.6	465.5	468.6	471.5
25°	430.0	433.9	436.3	439.4	442.6	445.2	449.1	452.4	454.9	457.8	460.4
27.5°	418.7	421.6	423.5	426.2	429.3	431.7	434.6	438.0	440.4	443.0	445.0
30°	399.4	402.0	403.7	405.7	408.8	411.0	413.4	416.5	418.2	420.1	421.8
32.5°	374.1	376.2	377.2	378.6	380.8	383.0	384.9	387.6	388.3	389.5	389.5
35°	337.4	337.9	337.6	338.1	339.1	340.3	342.0	343.7	344.6	344.6	343.9
37.5°	294.5	291.6	288.5	286.0	285.3	284.8	285.8	286.5	287.5	288.0	286.8
40°	249.9	243.4	236.4	230.1	225.7	223.8	223.1	223.6	223.6	225.3	225.3
42.5°	211.5	201.4	191.0	181.6	175.3	170.5	168.3	168.3	168.6	169.8	170.5
45°	179.7	166.9	154.8	144.5	135.8	129.5	126.6	125.9	125.7	126.1	127.8
47.5°	155.3	142.1	129.5	116.7	107.6	101.3	98.6	97.7	96.7	97.7	97.9
50°	136.3	122.5	109.3	96.5	86.8	81.3	77.9	76.4	76.2	76.2	76.7
52.5°	118.9	106.1	92.9	79.8	69.7	64.4	61.3	60.5	59.6	60.5	60.5
55°	102.5	89.7	76.7	64.4	55.9	50.4	47.5	46.5	46.1	46.8	46.8
57.5°	84.7	73.8	61.7	50.6	42.2	38.3	36.2	35.0	34.7	35.2	34.7
60°	69.5	60.3	49.9	39.8	33.3	29.2	27.5	27.0	26.5	27.0	27.0
62.5°	55.0	47.3	38.8	31.1	25.6	22.7	20.7	20.7	20.5	20.5	20.7
65°	40.8	34.7	28.7	22.2	17.8	15.7	14.2	14.2	14.0	14.2	14.0
67.5°	29.7	25.6	20.7	16.2	12.8	11.6	10.6	9.9	10.4	9.9	9.6
70°	21.7	18.3	15.0	12.3	9.9	8.7	8.0	7.7	7.2	7.2	7.2
72.5°	14.5	12.3	10.1	8.0	6.5	5.3	5.1	4.6	4.1	4.3	4.8
75°	9.6	8.2	7.2	5.8	4.3	4.3	2.9	2.9	2.4	2.9	2.2
77.5°	6.8	5.5	4.3	3.6	2.9	2.7	1.9	1.9	1.7	1.7	1.7
80°	4.8	4.1	3.1	2.7	1.9	1.9	1.7	1.4	1.2	1.2	1.4
82.5°	2.9	2.2	2.2	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°	493.9	493.9	493.9	493.9	493.9	493.9	493.9	493.9	493.9	493.9	493.9
2.5°	496.8	496.6	497.1	497.1	498.5	498.3	499.0	499.0	498.5	498.8	499.7
5°	498.5	499.2	500.7	501.9	504.1	505.0	506.2	507.4	507.7	508.4	509.1
7.5°	498.5	500.9	502.6	504.8	507.7	509.4	512.0	514.2	515.2	516.4	517.8
10°	497.5	500.0	503.1	505.5	509.1	511.8	514.4	517.8	519.3	521.2	523.1
12.5°	495.6	498.3	501.6	504.8	508.9	511.3	514.7	517.8	520.0	522.6	524.8
15°	492.7	495.9	499.0	502.1	506.5	509.4	512.5	516.1	518.3	521.2	523.1
17.5°	488.1	491.5	494.4	497.3	501.4	504.8	507.7	511.1	513.2	515.6	518.3
20°	482.6	485.7	488.9	491.3	495.4	498.3	501.4	504.5	506.2	506.7	510.8
22.5°	475.6	477.8	480.2	484.0	486.5	489.1	492.0	494.9	496.6	499.2	500.7
25°	464.0	466.2	468.8	470.5	473.4	475.6	478.5	481.6	482.6	484.5	486.0
27.5°	447.9	449.1	450.3	451.7	453.4	454.6	456.3	457.8	458.7	459.7	460.6
30°	422.3	422.3	422.3	421.3	422.1	422.8	423.0	422.8	422.8	422.5	422.5
32.5°	388.5	386.6	384.4	382.5	381.8	380.8	380.3	379.6	378.4	377.7	377.9
35°	343.0	338.6	336.0	333.6	331.6	330.2	329.5	328.7	328.5	327.5	326.6
37.5°	286.0	282.9	281.0	279.5	277.8	276.4	276.6	276.9	277.6	277.1	277.4
40°	225.7	225.0	225.7	224.1	223.6	224.1	225.3	227.0	227.9	228.9	230.6
42.5°	171.7	172.9	174.6	174.6	175.3	176.3	177.7	180.4	181.8	183.5	185.5
45°	129.3	130.7	132.9	133.6	134.1	135.3	137.0	139.2	140.1	141.6	143.3
47.5°	99.6	100.6	101.8	103.0	104.2	104.7	106.4	106.4	107.6	108.5	109.0
50°	77.7	78.6	79.6	80.3	80.8	81.5	82.0	82.7	83.0	83.4	83.7
52.5°	60.8	62.0	62.0	62.5	63.2	63.9	63.7	63.9	64.1	64.1	64.9
55°	47.5	47.5	48.2	48.2	48.7	48.5	48.7	48.7	48.7	48.7	49.0
57.5°	35.4	35.7	36.4	35.9	35.7	36.2	35.7	36.2	35.9	36.4	35.7
60°	27.2	27.2	27.5	27.5	27.7	27.7	27.7	27.5	27.5	27.2	27.2
62.5°	20.5	20.7	21.0	20.7	20.7	20.7	20.5	20.5	20.3	20.0	20.0
65°	13.7	13.5	14.0	13.5	13.7	13.7	13.5	13.7	13.0	13.3	13.0
67.5°	9.9	9.6	9.4	9.6	9.4	9.2	9.2	9.4	9.6	8.9	8.9
70°	6.5	6.8	6.5	6.8	7.0	7.0	6.8	6.5	6.8	6.3	6.5
72.5°	4.1	4.1	4.1	4.1	4.1	4.3	4.3	4.3	3.9	3.9	3.6
75°	1.9	2.7	2.2	1.9	2.7	2.7	2.4	2.4	2.2	2.2	2.2
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°	493.9	493.9	493.9	493.9	493.9	493.9	493.9	493.9	493.9	493.9	493.9
2.5°	499.5	499.2	499.5	499.7	499.5	499.2	499.5	499.7	498.8	498.5	499.0
5°	510.1	510.1	510.6	510.8	510.6	510.1	510.1	509.1	508.4	507.7	507.4
7.5°	519.3	519.7	520.2	520.5	520.2	519.7	519.3	517.8	516.4	515.2	514.2
10°	524.8	525.5	526.5	527.0	526.5	525.5	524.8	523.1	521.2	519.3	517.8
12.5°	527.2	527.9	529.1	528.9	529.1	527.9	527.2	524.8	522.6	520.0	517.8
15°	525.5	526.5	527.7	528.2	527.7	526.5	525.5	523.1	521.2	518.3	516.1
17.5°	520.2	521.7	522.4	523.1	522.4	521.7	520.2	518.3	515.6	513.2	511.1
20°	513.0	514.0	514.9	515.2	514.9	514.0	513.0	510.8	506.7	506.2	504.5
22.5°	502.6	503.3	505.5	504.8	505.5	503.3	502.6	500.7	499.2	496.6	494.9
25°	487.7	488.4	488.6	488.9	488.6	488.4	487.7	486.0	484.5	482.6	481.6
27.5°	461.9	461.9	462.3	462.6	462.3	461.9	461.9	460.6	459.7	458.7	457.8
30°	422.8	422.8	422.8	424.0	422.8	422.8	422.8	422.5	422.5	422.8	422.8
32.5°	377.7	377.2	376.7	377.2	376.7	377.2	377.2	377.9	377.7	378.4	379.6
35°	326.6	326.3	327.0	326.1	327.0	326.3	326.6	326.6	327.5	328.5	328.7
37.5°	277.6	277.1	278.1	277.1	278.1	277.1	277.6	277.4	277.1	277.6	276.9
40°	231.1	231.5	231.5	233.5	231.5	231.5	231.1	230.6	228.9	227.9	227.0
42.5°	186.4	187.9	187.4	188.8	187.4	187.9	186.4	185.5	183.5	181.8	180.4
45°	144.2	145.2	145.2	145.7	145.2	145.2	144.2	143.3	141.6	140.1	139.2
47.5°	110.7	110.7	110.7	110.9	110.7	110.7	110.7	109.0	108.5	107.6	106.4
50°	84.2	84.4	84.7	84.9	84.7	84.4	84.2	83.7	83.4	83.0	82.7
52.5°	64.6	64.9	64.4	64.9	64.4	64.9	64.6	64.9	64.1	64.1	63.9
55°	49.0	48.7	49.0	49.2	49.0	48.7	49.0	49.0	48.7	48.7	48.7
57.5°	35.9	35.4	35.4	35.4	35.4	35.4	35.9	35.7	36.4	35.9	36.2
60°	26.8	27.0	27.0	27.2	27.0	27.0	26.8	27.2	27.2	27.5	27.5
62.5°	19.8	20.5	20.0	20.5	20.0	20.5	19.8	20.0	20.0	20.3	20.5
65°	12.8	12.8	12.8	13.0	12.8	12.8	12.8	13.0	13.3	13.0	13.7
67.5°	8.7	8.9	9.4	9.2	9.4	8.9	8.7	8.9	8.9	9.6	9.4
70°	7.0	6.3	6.3	7.0	6.3	6.3	7.0	6.5	6.3	6.8	6.5
72.5°	4.1	3.6	4.1	4.1	4.1	3.6	4.1	3.6	3.9	3.9	4.3
75°	2.2	1.9	1.7	2.4	1.7	1.9	2.2	2.2	2.2	2.2	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



TEST NUMBER: P245016

CATALOG NUMBER: LD8B10D010 ER8B109730 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	493.9	493.9	493.9	493.9	493.9	493.9	493.9	493.9	493.9	493.9	493.9
2.5°	499.0	498.3	498.5	497.1	497.1	496.6	496.8	495.6	495.1	494.7	495.4
5°	506.2	505.0	504.1	501.9	500.7	499.2	498.5	496.6	494.9	493.4	493.2
7.5°	512.0	509.4	507.7	504.8	502.6	500.9	498.5	495.9	493.7	491.8	490.3
10°	514.4	511.8	509.1	505.5	503.1	500.0	497.5	494.2	491.3	488.6	486.9
12.5°	514.7	511.3	508.9	504.8	501.6	498.3	495.6	491.8	488.4	485.7	483.1
15°	512.5	509.4	506.5	502.1	499.0	495.9	492.7	488.6	485.5	482.4	480.4
17.5°	507.7	504.8	501.4	497.3	494.4	491.5	488.1	484.8	481.1	477.8	475.4
20°	501.4	498.3	495.4	491.3	488.9	485.7	482.6	479.0	476.1	472.7	470.1
22.5°	492.0	489.1	486.5	484.0	480.2	477.8	475.6	471.5	468.6	465.5	462.6
25°	478.5	475.6	473.4	470.5	468.8	466.2	464.0	460.4	457.8	454.9	452.4
27.5°	456.3	454.6	453.4	451.7	450.3	449.1	447.9	445.0	443.0	440.4	438.0
30°	423.0	422.8	422.1	421.3	422.3	422.3	422.3	421.8	420.1	418.2	416.5
32.5°	380.3	380.8	381.8	382.5	384.4	386.6	388.5	389.5	389.5	388.3	387.6
35°	329.5	330.2	331.6	333.6	336.0	338.6	343.0	343.9	344.6	344.6	343.7
37.5°	276.6	276.4	277.8	279.5	281.0	282.9	286.0	286.8	288.0	287.5	286.5
40°	225.3	224.1	223.6	224.1	225.7	225.0	225.7	225.3	225.3	223.6	223.6
42.5°	177.7	176.3	175.3	174.6	174.6	172.9	171.7	170.5	169.8	168.6	168.3
45°	137.0	135.3	134.1	133.6	132.9	130.7	129.3	127.8	126.1	125.7	125.9
47.5°	106.4	104.7	104.2	103.0	101.8	100.6	99.6	97.9	97.7	96.7	97.7
50°	82.0	81.5	80.8	80.3	79.6	78.6	77.7	76.7	76.2	76.2	76.4
52.5°	63.7	63.9	63.2	62.5	62.0	62.0	60.8	60.5	60.5	59.6	60.5
55°	48.7	48.5	48.7	48.2	48.2	47.5	47.5	46.8	46.8	46.1	46.5
57.5°	35.7	36.2	35.7	35.9	36.4	35.7	35.4	34.7	35.2	34.7	35.0
60°	27.7	27.7	27.7	27.5	27.5	27.2	27.2	27.0	27.0	26.5	27.0
62.5°	20.5	20.7	20.7	20.7	21.0	20.7	20.5	20.7	20.5	20.5	20.7
65°	13.5	13.7	13.7	13.5	14.0	13.5	13.7	14.0	14.2	14.0	14.2
67.5°	9.2	9.2	9.4	9.6	9.4	9.6	9.9	9.6	9.9	10.4	9.9
70°	6.8	7.0	7.0	6.8	6.5	6.8	6.5	7.2	7.2	7.2	7.7
72.5°	4.3	4.3	4.1	4.1	4.1	4.1	4.1	4.8	4.3	4.1	4.6
75°	2.4	2.7	2.7	1.9	2.2	2.7	1.9	2.2	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: P245016

CATALOG NUMBER: LD8B10D010 ER8B109730 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	493.9	493.9	493.9	493.9	493.9	493.9	493.9	493.9	493.9	493.9	493.9
2.5°	493.4	493.4	493.2	492.7	491.8	491.8	491.5	490.8	490.3	490.1	490.1
5°	491.0	490.1	489.1	486.5	486.5	486.0	484.5	483.6	483.1	481.9	481.4
7.5°	488.9	486.0	484.3	482.6	480.4	479.5	477.8	477.0	475.4	474.2	473.4
10°	483.6	481.6	479.5	476.8	475.1	473.2	471.3	469.8	467.6	466.4	465.5
12.5°	479.9	477.0	475.1	472.2	469.3	467.6	465.0	463.3	461.1	458.7	457.3
15°	476.6	473.4	470.8	467.6	464.5	462.6	459.4	457.5	454.4	452.0	450.3
17.5°	471.5	468.8	466.0	462.1	459.2	456.8	453.4	451.0	448.1	445.0	443.3
20°	466.2	463.1	460.2	456.3	453.4	450.5	447.1	444.5	441.1	438.2	436.3
22.5°	459.2	455.6	453.2	449.3	445.9	442.8	439.7	436.5	433.4	431.0	428.8
25°	449.1	445.2	442.6	439.4	436.3	433.9	430.0	428.1	425.0	422.8	420.6
27.5°	434.6	431.7	429.3	426.2	423.5	421.6	418.7	416.8	414.1	412.2	410.5
30°	413.4	411.0	408.8	405.7	403.7	402.0	399.4	397.7	395.8	393.6	393.1
32.5°	384.9	383.0	380.8	378.6	377.2	376.2	374.1	373.1	371.2	370.0	368.8
35°	342.0	340.3	339.1	338.1	337.6	337.9	337.4	338.4	338.9	338.6	338.9
37.5°	285.8	284.8	285.3	286.0	288.5	291.6	294.5	298.8	301.7	304.6	307.3
40°	223.1	223.8	225.7	230.1	236.4	243.4	249.9	258.1	266.3	272.1	277.4
42.5°	168.3	170.5	175.3	181.6	191.0	201.4	211.5	223.6	233.5	243.1	249.9
45°	126.6	129.5	135.8	144.5	154.8	166.9	179.7	193.2	205.0	214.9	222.4
47.5°	98.6	101.3	107.6	116.7	129.5	142.1	155.3	169.3	181.6	191.3	197.8
50°	77.9	81.3	86.8	96.5	109.3	122.5	136.3	150.0	161.6	169.8	175.6
52.5°	61.3	64.4	69.7	79.8	92.9	106.1	118.9	132.4	142.5	150.5	154.4
55°	47.5	50.4	55.9	64.4	76.7	89.7	102.5	114.1	123.5	129.3	132.9
57.5°	36.2	38.3	42.2	50.6	61.7	73.8	84.7	96.2	103.5	107.6	110.0
60°	27.5	29.2	33.3	39.8	49.9	60.3	69.5	78.1	83.9	87.3	89.7
62.5°	20.7	22.7	25.6	31.1	38.8	47.3	55.0	61.5	66.3	68.5	70.2
65°	14.2	15.7	17.8	22.2	28.7	34.7	40.8	45.6	48.7	51.1	52.1
67.5°	10.6	11.6	12.8	16.2	20.7	25.6	29.7	33.0	36.4	37.4	39.1
70°	8.0	8.7	9.9	12.3	15.0	18.3	21.7	23.6	26.0	27.7	28.2
72.5°	5.1	5.3	6.5	8.0	10.1	12.3	14.5	16.2	17.6	18.6	19.1
75°	2.9	4.3	4.3	5.8	7.2	8.2	9.6	10.9	11.6	12.3	12.3
77.5°	1.9	2.7	2.9	3.6	4.3	5.5	6.8	7.5	8.2	8.4	8.4
80°	1.7	1.9	1.9	2.7	3.1	4.1	4.8	5.1	5.5	5.8	6.3
82.5°	0.7	1.0	1.2	1.9	2.2	2.2	2.9	3.1	3.6	3.9	3.9
85°	0.2	0.5	0.5	0.7	1.2	1.4	1.7	1.9	2.2	2.2	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: P245016

CATALOG NUMBER: LD8B10D010 ER8B109730 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	493.9	493.9	493.9	493.9	493.9	493.9	493.9
2.5°	489.6	489.8	488.9	488.6	488.1	488.4	488.9
5°	480.7	480.9	479.9	479.0	479.0	478.7	479.0
7.5°	472.2	472.5	471.0	470.5	469.6	469.8	469.8
10°	463.8	463.8	461.6	461.4	460.6	460.4	460.4
12.5°	455.6	454.9	453.2	452.2	452.7	451.2	451.2
15°	448.3	447.1	445.0	444.2	443.0	442.6	442.6
17.5°	440.9	439.9	438.0	436.5	435.1	434.8	435.1
20°	433.6	432.7	430.3	429.3	428.1	428.1	427.6
22.5°	426.4	425.4	423.3	422.5	420.9	420.9	421.1
25°	418.9	418.2	415.8	415.3	415.1	414.1	414.6
27.5°	408.8	408.3	406.4	405.7	404.7	404.5	404.9
30°	390.2	389.5	388.1	387.3	385.6	385.9	386.4
32.5°	367.1	366.1	364.2	363.5	362.0	361.5	361.8
35°	338.1	337.4	335.7	335.7	334.3	333.8	334.3
37.5°	308.7	309.4	308.7	309.4	308.7	308.5	308.7
40°	281.0	283.6	284.1	286.8	285.8	287.2	287.0
42.5°	254.4	258.8	260.5	262.6	262.2	263.1	263.9
45°	227.7	231.3	233.0	234.4	234.7	235.2	235.4
47.5°	202.3	205.2	205.5	207.2	206.9	206.9	207.7
50°	178.7	180.6	181.1	182.3	181.4	180.9	181.1
52.5°	156.8	158.7	158.2	158.7	157.5	157.0	157.2
55°	134.3	135.3	135.3	135.3	133.9	133.9	133.9
57.5°	111.4	111.7	111.2	111.4	111.2	109.7	109.5
60°	90.4	90.4	90.2	90.4	89.7	89.0	89.0
62.5°	70.7	71.1	72.1	71.1	70.7	71.1	70.4
65°	52.8	53.8	53.5	54.0	53.8	53.8	53.3
67.5°	39.8	40.0	40.3	40.5	40.5	40.5	40.5
70°	29.2	29.9	29.7	29.7	29.7	29.7	31.1
72.5°	19.5	20.5	20.3	20.7	20.7	21.2	20.7
75°	13.3	14.2	13.7	14.5	14.2	13.7	15.0
77.5°	8.9	9.4	9.6	9.9	9.6	9.4	9.6
80°	6.3	6.8	6.5	6.8	6.8	6.8	7.0
82.5°	3.9	4.6	4.3	4.6	4.3	4.6	4.6
85°	2.7	2.9	2.4	2.9	2.7	2.7	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)