

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: P245880

Luminaire Tested: **LD8B10D010 ER8B109730 8LBSW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245880
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 8LBSW0GPH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 777.0 lumens
Efficiency: N/A
Efficacy: 76.2 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

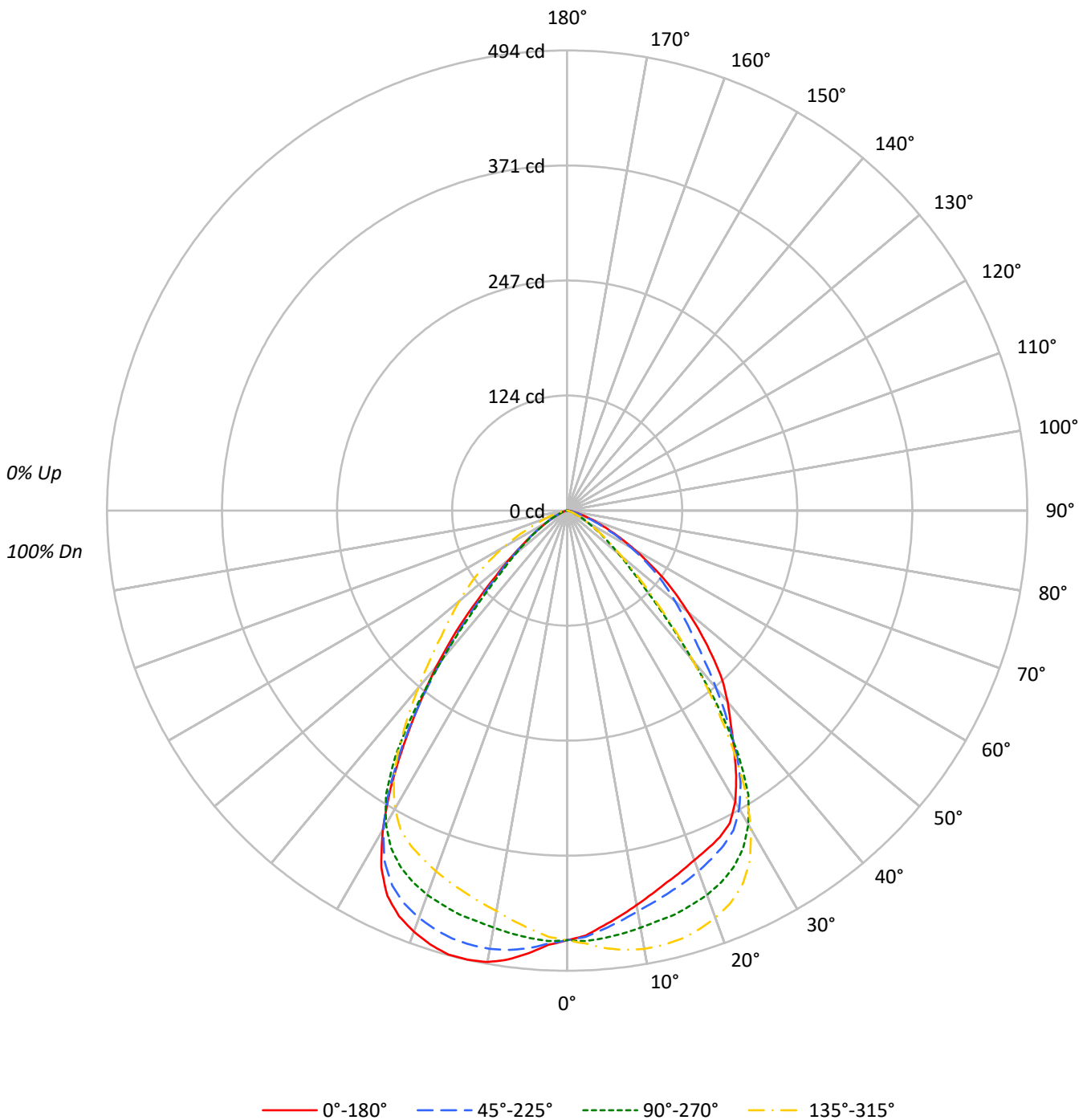
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	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°	43.9	5.7
10°-20°	127.1	16.4
20°-30°	192.5	24.8
30°-40°	193.0	24.8
40°-50°	121.2	15.6
50°-60°	64.6	8.3
60°-70°	26.5	3.4
70°-80°	7.0	0.9
80°-90°	1.2	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°	363.6	46.8
0°-40°	556.5	71.6
0°-60°	742.2	95.5
0°-90°	777.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	777.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	461	461	461	461	461	
5°	447	461	477	461	447	42
15°	413	449	493	449	413	117
25°	387	422	457	422	387	178
35°	312	321	304	321	312	196
45°	220	118	136	118	220	169
55°	125	44	46	44	125	111
65°	50	13	12	13	50	52
75°	14	3	2	3	14	16
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°	461.3	461.3	461.3	461.3	461.3	461.3	461.3	461.3	461.3	461.3	461.3
2.5°	456.6	456.1	455.9	456.3	456.6	457.5	457.2	457.7	457.7	457.9	458.4
5°	447.3	447.1	447.3	447.3	448.2	449.1	448.9	449.6	450.0	451.1	451.6
7.5°	438.8	438.8	438.5	439.4	439.9	441.2	441.0	442.1	442.8	443.9	445.5
10°	430.0	430.0	430.2	430.9	431.1	433.1	433.1	434.7	435.6	436.7	438.8
12.5°	421.4	421.4	422.8	422.3	423.2	424.8	425.5	427.0	428.4	430.6	432.7
15°	413.3	413.3	413.8	414.9	415.6	417.6	418.7	420.5	422.1	424.3	427.3
17.5°	406.3	406.1	406.3	407.7	409.0	410.8	411.7	414.0	415.6	418.5	421.2
20°	399.3	399.8	399.8	400.9	401.8	404.1	405.0	407.5	409.3	412.0	415.1
22.5°	393.3	393.0	393.0	394.6	395.3	397.3	398.2	400.5	402.5	404.7	407.7
25°	387.2	386.7	387.6	387.9	388.3	390.6	391.2	392.8	394.8	396.9	399.8
27.5°	378.2	377.7	377.9	378.8	379.5	381.3	381.8	383.3	384.9	386.7	389.2
30°	360.8	360.4	360.2	361.7	362.4	363.8	364.4	367.1	367.6	369.6	371.4
32.5°	337.8	337.6	338.1	339.4	340.1	341.9	342.8	344.4	345.5	346.6	348.4
35°	312.2	311.7	312.2	313.5	313.5	315.1	315.8	316.5	316.2	316.5	316.0
37.5°	288.3	288.1	288.3	289.0	288.3	289.0	288.3	287.0	284.5	281.8	279.1
40°	268.0	268.3	266.9	267.8	265.3	264.9	262.4	259.0	254.1	248.7	241.0
42.5°	246.4	245.7	244.8	245.3	243.3	241.7	237.6	233.3	227.0	218.0	208.8
45°	219.8	219.6	219.2	218.9	217.6	216.0	212.6	207.7	200.7	191.5	180.4
47.5°	193.9	193.3	193.3	193.5	191.9	191.7	189.0	184.7	178.6	169.6	158.1
50°	169.1	168.9	169.4	170.3	169.1	168.7	166.9	164.0	158.6	150.9	140.1
52.5°	146.9	146.6	147.1	148.2	147.7	148.2	146.4	144.2	140.5	133.1	123.7
55°	125.0	125.0	125.0	126.4	126.4	126.4	125.5	124.1	120.7	115.3	106.5
57.5°	102.3	102.5	103.8	104.1	103.8	104.3	104.1	102.7	100.5	96.6	89.9
60°	83.1	83.1	83.8	84.5	84.2	84.5	84.5	83.8	81.5	78.4	73.0
62.5°	65.8	66.4	66.0	66.4	67.3	66.4	66.0	65.5	64.0	61.9	57.4
65°	49.8	50.2	50.2	50.5	50.0	50.2	49.3	48.7	47.8	45.5	42.6
67.5°	37.8	37.8	37.8	37.8	37.6	37.4	37.2	36.5	34.9	34.0	30.9
70°	29.1	27.7	27.7	27.7	27.7	27.9	27.3	26.4	25.9	24.3	22.1
72.5°	19.4	19.8	19.4	19.4	18.9	19.1	18.2	17.8	17.3	16.4	15.1
75°	14.0	12.8	13.3	13.5	12.8	13.3	12.4	11.5	11.5	10.8	10.1
77.5°	9.0	8.8	9.0	9.2	9.0	8.8	8.3	7.9	7.9	7.7	7.0
80°	6.5	6.3	6.3	6.3	6.1	6.3	5.9	5.9	5.4	5.2	4.7
82.5°	4.3	4.3	4.1	4.3	4.1	4.3	3.6	3.6	3.6	3.4	2.9
85°	2.9	2.5	2.5	2.7	2.3	2.7	2.5	2.3	2.0	2.0	1.8
87.5°	1.4	1.6	1.4	1.6	1.4	1.4	1.6	1.4	1.4	0.9	0.9
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: P245880

CATALOG NUMBER: LD8B10D010 ER8B109730 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	461.3	461.3	461.3	461.3	461.3	461.3	461.3	461.3	461.3	461.3	461.3
2.5°	459.0	459.2	459.2	460.2	460.6	460.8	460.8	462.6	462.0	462.4	462.9
5°	452.5	453.8	454.3	454.3	456.8	457.7	458.6	460.6	460.8	462.2	463.8
7.5°	446.2	447.8	448.7	450.7	452.3	453.8	456.6	457.9	459.2	461.1	463.1
10°	440.1	441.9	443.7	445.3	447.8	449.8	451.6	454.7	456.3	458.8	461.5
12.5°	434.3	436.7	438.3	441.0	443.7	445.5	448.2	451.1	453.6	456.1	459.2
15°	429.1	432.0	433.8	436.7	439.7	442.1	445.1	448.7	450.5	453.4	456.3
17.5°	423.4	426.6	428.9	431.5	435.2	437.9	440.3	443.9	446.2	449.3	452.7
20°	417.6	420.7	423.4	426.1	429.8	432.4	435.4	439.0	441.5	444.6	447.3
22.5°	410.6	413.5	416.5	419.6	423.2	425.5	428.9	432.0	434.7	437.6	440.3
25°	401.6	405.2	407.5	410.4	413.3	415.8	419.4	422.5	424.8	427.5	430.0
27.5°	391.0	393.7	395.5	398.0	400.9	403.2	405.9	409.0	411.3	413.8	415.6
30°	373.0	375.5	377.0	378.8	381.8	383.8	386.1	389.0	390.6	392.4	393.9
32.5°	349.3	351.4	352.3	353.6	355.6	357.7	359.5	362.0	362.6	363.8	363.8
35°	315.1	315.6	315.3	315.8	316.7	317.8	319.4	321.0	321.9	321.9	321.2
37.5°	275.0	272.3	269.4	267.1	266.5	266.0	266.9	267.6	268.5	268.9	267.8
40°	233.3	227.3	220.7	214.9	210.8	209.0	208.3	208.8	208.8	210.4	210.4
42.5°	197.5	188.1	178.4	169.6	163.7	159.2	157.2	157.2	157.4	158.6	159.2
45°	167.8	155.9	144.6	134.9	126.8	120.9	118.2	117.6	117.4	117.8	119.4
47.5°	145.1	132.7	120.9	109.0	100.5	94.6	92.1	91.2	90.3	91.2	91.4
50°	127.3	114.4	102.0	90.1	81.1	75.9	72.7	71.4	71.2	71.2	71.6
52.5°	111.0	99.1	86.7	74.6	65.1	60.1	57.2	56.5	55.6	56.5	56.5
55°	95.7	83.8	71.6	60.1	52.3	47.1	44.4	43.5	43.0	43.7	43.7
57.5°	79.1	68.9	57.7	47.3	39.4	35.8	33.8	32.7	32.4	32.9	32.4
60°	64.9	56.3	46.6	37.2	31.1	27.3	25.7	25.2	24.8	25.2	25.2
62.5°	51.4	44.1	36.3	29.1	23.9	21.2	19.4	19.4	19.1	19.1	19.4
65°	38.1	32.4	26.8	20.7	16.7	14.6	13.3	13.3	13.1	13.3	13.1
67.5°	27.7	23.9	19.4	15.1	11.9	10.8	9.9	9.2	9.7	9.2	9.0
70°	20.3	17.1	14.0	11.5	9.2	8.1	7.4	7.2	6.8	6.8	6.8
72.5°	13.5	11.5	9.5	7.4	6.1	5.0	4.7	4.3	3.8	4.1	4.5
75°	9.0	7.7	6.8	5.4	4.1	4.1	2.7	2.7	2.3	2.7	2.0
77.5°	6.3	5.2	4.1	3.4	2.7	2.5	1.8	1.8	1.6	1.6	1.6
80°	4.5	3.8	2.9	2.5	1.8	1.8	1.6	1.4	1.1	1.1	1.4
82.5°	2.7	2.0	2.0	1.8	1.1	0.9	0.7	0.9	0.5	0.5	0.5
85°	1.6	1.4	1.1	0.7	0.5	0.5	0.2	0.0	0.2	0.2	0.0
87.5°	0.9	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



TEST NUMBER: P245880

CATALOG NUMBER: LD8B10D010 ER8B109730 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	461.3	461.3	461.3	461.3	461.3	461.3	461.3	461.3	461.3	461.3	461.3
2.5°	464.0	463.8	464.2	464.2	465.6	465.3	466.0	466.0	465.6	465.8	466.7
5°	465.6	466.2	467.6	468.7	470.7	471.6	472.8	473.9	474.1	474.8	475.5
7.5°	465.6	467.8	469.4	471.4	474.1	475.7	478.2	480.2	481.1	482.2	483.6
10°	464.7	466.9	469.8	472.1	475.5	477.9	480.4	483.6	484.9	486.7	488.5
12.5°	462.9	465.3	468.5	471.4	475.2	477.5	480.6	483.6	485.6	488.1	490.1
15°	460.2	463.1	466.0	468.9	473.0	475.7	478.6	482.0	484.0	486.7	488.5
17.5°	455.9	459.0	461.7	464.4	468.3	471.4	474.1	477.3	479.3	481.6	484.0
20°	450.7	453.6	456.6	458.8	462.6	465.3	468.3	471.2	472.8	473.2	477.1
22.5°	444.2	446.2	448.4	452.0	454.3	456.8	459.5	462.2	463.8	466.2	467.6
25°	433.3	435.4	437.9	439.4	442.1	444.2	446.9	449.8	450.7	452.5	453.8
27.5°	418.3	419.4	420.5	421.9	423.4	424.6	426.1	427.5	428.4	429.3	430.2
30°	394.4	394.4	394.4	393.5	394.2	394.8	395.1	394.8	394.8	394.6	394.6
32.5°	362.9	361.1	359.0	357.2	356.5	355.6	355.2	354.5	353.4	352.7	352.9
35°	320.3	316.2	313.8	311.5	309.7	308.3	307.7	307.0	306.8	305.9	305.0
37.5°	267.1	264.2	262.4	261.0	259.5	258.1	258.3	258.6	259.2	258.8	259.0
40°	210.8	210.1	210.8	209.2	208.8	209.2	210.4	212.0	212.8	213.7	215.3
42.5°	160.4	161.5	163.1	163.1	163.7	164.7	166.0	168.5	169.8	171.4	173.2
45°	120.7	122.1	124.1	124.8	125.2	126.4	127.9	130.0	130.9	132.2	133.8
47.5°	93.0	93.9	95.0	96.2	97.3	97.8	99.3	99.3	100.5	101.4	101.8
50°	72.5	73.4	74.3	75.0	75.5	76.1	76.6	77.3	77.5	77.9	78.2
52.5°	56.8	57.9	57.9	58.3	59.0	59.7	59.5	59.7	59.9	59.9	60.6
55°	44.4	44.4	45.0	45.0	45.5	45.3	45.5	45.5	45.5	45.5	45.7
57.5°	33.1	33.3	34.0	33.6	33.3	33.8	33.3	33.8	33.6	34.0	33.3
60°	25.4	25.4	25.7	25.7	25.9	25.9	25.9	25.7	25.7	25.4	25.4
62.5°	19.1	19.4	19.6	19.4	19.4	19.4	19.1	19.1	18.9	18.7	18.7
65°	12.8	12.6	13.1	12.6	12.8	12.8	12.6	12.8	12.2	12.4	12.2
67.5°	9.2	9.0	8.8	9.0	8.8	8.6	8.6	8.8	9.0	8.3	8.3
70°	6.1	6.3	6.1	6.3	6.5	6.5	6.3	6.1	6.3	5.9	6.1
72.5°	3.8	3.8	3.8	3.8	3.8	4.1	4.1	4.1	3.6	3.6	3.4
75°	1.8	2.5	2.0	1.8	2.5	2.5	2.3	2.3	2.0	2.0	2.0
77.5°	1.8	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.1	1.4	1.1
80°	0.9	0.9	0.9	0.7	0.9	0.9	1.1	0.9	0.9	0.7	1.1
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



TEST NUMBER: P245880

CATALOG NUMBER: LD8B10D010 ER8B109730 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	461.3	461.3	461.3	461.3	461.3	461.3	461.3	461.3	461.3	461.3	461.3
2.5°	466.5	466.2	466.5	466.7	466.5	466.2	466.5	466.7	465.8	465.6	466.0
5°	476.4	476.4	476.8	477.1	476.8	476.4	476.4	475.5	474.8	474.1	473.9
7.5°	484.9	485.4	485.8	486.1	485.8	485.4	484.9	483.6	482.2	481.1	480.2
10°	490.1	490.8	491.7	492.1	491.7	490.8	490.1	488.5	486.7	484.9	483.6
12.5°	492.4	493.0	494.2	493.9	494.2	493.0	492.4	490.1	488.1	485.6	483.6
15°	490.8	491.7	492.8	493.3	492.8	491.7	490.8	488.5	486.7	484.0	482.0
17.5°	485.8	487.2	487.9	488.5	487.9	487.2	485.8	484.0	481.6	479.3	477.3
20°	479.1	480.0	480.9	481.1	480.9	480.0	479.1	477.1	473.2	472.8	471.2
22.5°	469.4	470.1	472.1	471.4	472.1	470.1	469.4	467.6	466.2	463.8	462.2
25°	455.4	456.1	456.3	456.6	456.3	456.1	455.4	453.8	452.5	450.7	449.8
27.5°	431.3	431.3	431.8	432.0	431.8	431.3	431.3	430.2	429.3	428.4	427.5
30°	394.8	394.8	394.8	396.0	394.8	394.8	394.8	394.6	394.6	394.8	394.8
32.5°	352.7	352.3	351.8	352.3	351.8	352.3	352.7	352.9	352.7	353.4	354.5
35°	305.0	304.7	305.4	304.5	305.4	304.7	305.0	305.0	305.9	306.8	307.0
37.5°	259.2	258.8	259.7	258.8	259.7	258.8	259.2	259.0	258.8	259.2	258.6
40°	215.8	216.2	216.2	218.0	216.2	216.2	215.8	215.3	213.7	212.8	212.0
42.5°	174.1	175.5	175.0	176.4	175.0	175.5	174.1	173.2	171.4	169.8	168.5
45°	134.7	135.6	135.6	136.0	135.6	135.6	134.7	133.8	132.2	130.9	130.0
47.5°	103.4	103.4	103.4	103.6	103.4	103.4	103.4	101.8	101.4	100.5	99.3
50°	78.6	78.8	79.1	79.3	79.1	78.8	78.6	78.2	77.9	77.5	77.3
52.5°	60.4	60.6	60.1	60.6	60.1	60.6	60.4	60.6	59.9	59.9	59.7
55°	45.7	45.5	45.7	45.9	45.7	45.5	45.7	45.7	45.5	45.5	45.5
57.5°	33.6	33.1	33.1	33.1	33.1	33.1	33.6	33.3	34.0	33.6	33.8
60°	25.0	25.2	25.2	25.4	25.2	25.2	25.0	25.4	25.4	25.7	25.7
62.5°	18.5	19.1	18.7	19.1	18.7	19.1	18.5	18.7	18.7	18.9	19.1
65°	11.9	11.9	11.9	12.2	11.9	11.9	11.9	12.2	12.4	12.2	12.8
67.5°	8.1	8.3	8.8	8.6	8.8	8.3	8.1	8.3	8.3	9.0	8.8
70°	6.5	5.9	5.9	6.5	5.9	5.9	6.5	6.1	5.9	6.3	6.1
72.5°	3.8	3.4	3.8	3.8	3.8	3.4	3.8	3.4	3.6	3.6	4.1
75°	2.0	1.8	1.6	2.3	1.6	1.8	2.0	2.0	2.0	2.0	2.3
77.5°	1.4	1.1	1.6	1.6	1.6	1.1	1.4	1.1	1.4	1.1	1.4
80°	0.7	0.9	0.7	1.1	0.7	0.9	0.7	1.1	0.7	0.9	0.9
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: P245880

CATALOG NUMBER: LD8B10D010 ER8B109730 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	461.3	461.3	461.3	461.3	461.3	461.3	461.3	461.3	461.3	461.3	461.3
2.5°	466.0	465.3	465.6	464.2	464.2	463.8	464.0	462.9	462.4	462.0	462.6
5°	472.8	471.6	470.7	468.7	467.6	466.2	465.6	463.8	462.2	460.8	460.6
7.5°	478.2	475.7	474.1	471.4	469.4	467.8	465.6	463.1	461.1	459.2	457.9
10°	480.4	477.9	475.5	472.1	469.8	466.9	464.7	461.5	458.8	456.3	454.7
12.5°	480.6	477.5	475.2	471.4	468.5	465.3	462.9	459.2	456.1	453.6	451.1
15°	478.6	475.7	473.0	468.9	466.0	463.1	460.2	456.3	453.4	450.5	448.7
17.5°	474.1	471.4	468.3	464.4	461.7	459.0	455.9	452.7	449.3	446.2	443.9
20°	468.3	465.3	462.6	458.8	456.6	453.6	450.7	447.3	444.6	441.5	439.0
22.5°	459.5	456.8	454.3	452.0	448.4	446.2	444.2	440.3	437.6	434.7	432.0
25°	446.9	444.2	442.1	439.4	437.9	435.4	433.3	430.0	427.5	424.8	422.5
27.5°	426.1	424.6	423.4	421.9	420.5	419.4	418.3	415.6	413.8	411.3	409.0
30°	395.1	394.8	394.2	393.5	394.4	394.4	394.4	393.9	392.4	390.6	389.0
32.5°	355.2	355.6	356.5	357.2	359.0	361.1	362.9	363.8	363.8	362.6	362.0
35°	307.7	308.3	309.7	311.5	313.8	316.2	320.3	321.2	321.9	321.9	321.0
37.5°	258.3	258.1	259.5	261.0	262.4	264.2	267.1	267.8	268.9	268.5	267.6
40°	210.4	209.2	208.8	209.2	210.8	210.1	210.8	210.4	210.4	208.8	208.8
42.5°	166.0	164.7	163.7	163.1	163.1	161.5	160.4	159.2	158.6	157.4	157.2
45°	127.9	126.4	125.2	124.8	124.1	122.1	120.7	119.4	117.8	117.4	117.6
47.5°	99.3	97.8	97.3	96.2	95.0	93.9	93.0	91.4	91.2	90.3	91.2
50°	76.6	76.1	75.5	75.0	74.3	73.4	72.5	71.6	71.2	71.2	71.4
52.5°	59.5	59.7	59.0	58.3	57.9	57.9	56.8	56.5	56.5	55.6	56.5
55°	45.5	45.3	45.5	45.0	45.0	44.4	44.4	43.7	43.7	43.0	43.5
57.5°	33.3	33.8	33.3	33.6	34.0	33.3	33.1	32.4	32.9	32.4	32.7
60°	25.9	25.9	25.9	25.7	25.7	25.4	25.4	25.2	25.2	24.8	25.2
62.5°	19.1	19.4	19.4	19.4	19.6	19.4	19.1	19.4	19.1	19.1	19.4
65°	12.6	12.8	12.8	12.6	13.1	12.6	12.8	13.1	13.3	13.1	13.3
67.5°	8.6	8.6	8.8	9.0	8.8	9.0	9.2	9.0	9.2	9.7	9.2
70°	6.3	6.5	6.5	6.3	6.1	6.3	6.1	6.8	6.8	6.8	7.2
72.5°	4.1	4.1	3.8	3.8	3.8	3.8	3.8	4.5	4.1	3.8	4.3
75°	2.3	2.5	2.5	1.8	2.0	2.5	1.8	2.0	2.7	2.3	2.7
77.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.8	1.6	1.6	1.6	1.8
80°	1.1	0.9	0.9	0.7	0.9	0.9	0.9	1.4	1.1	1.1	1.4
82.5°	0.5	0.5	0.2	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.9
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: P245880

CATALOG NUMBER: LD8B10D010 ER8B109730 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	461.3	461.3	461.3	461.3	461.3	461.3	461.3	461.3	461.3	461.3	461.3
2.5°	460.8	460.8	460.6	460.2	459.2	459.2	459.0	458.4	457.9	457.7	457.7
5°	458.6	457.7	456.8	454.3	454.3	453.8	452.5	451.6	451.1	450.0	449.6
7.5°	456.6	453.8	452.3	450.7	448.7	447.8	446.2	445.5	443.9	442.8	442.1
10°	451.6	449.8	447.8	445.3	443.7	441.9	440.1	438.8	436.7	435.6	434.7
12.5°	448.2	445.5	443.7	441.0	438.3	436.7	434.3	432.7	430.6	428.4	427.0
15°	445.1	442.1	439.7	436.7	433.8	432.0	429.1	427.3	424.3	422.1	420.5
17.5°	440.3	437.9	435.2	431.5	428.9	426.6	423.4	421.2	418.5	415.6	414.0
20°	435.4	432.4	429.8	426.1	423.4	420.7	417.6	415.1	412.0	409.3	407.5
22.5°	428.9	425.5	423.2	419.6	416.5	413.5	410.6	407.7	404.7	402.5	400.5
25°	419.4	415.8	413.3	410.4	407.5	405.2	401.6	399.8	396.9	394.8	392.8
27.5°	405.9	403.2	400.9	398.0	395.5	393.7	391.0	389.2	386.7	384.9	383.3
30°	386.1	383.8	381.8	378.8	377.0	375.5	373.0	371.4	369.6	367.6	367.1
32.5°	359.5	357.7	355.6	353.6	352.3	351.4	349.3	348.4	346.6	345.5	344.4
35°	319.4	317.8	316.7	315.8	315.3	315.6	315.1	316.0	316.5	316.2	316.5
37.5°	266.9	266.0	266.5	267.1	269.4	272.3	275.0	279.1	281.8	284.5	287.0
40°	208.3	209.0	210.8	214.9	220.7	227.3	233.3	241.0	248.7	254.1	259.0
42.5°	157.2	159.2	163.7	169.6	178.4	188.1	197.5	208.8	218.0	227.0	233.3
45°	118.2	120.9	126.8	134.9	144.6	155.9	167.8	180.4	191.5	200.7	207.7
47.5°	92.1	94.6	100.5	109.0	120.9	132.7	145.1	158.1	169.6	178.6	184.7
50°	72.7	75.9	81.1	90.1	102.0	114.4	127.3	140.1	150.9	158.6	164.0
52.5°	57.2	60.1	65.1	74.6	86.7	99.1	111.0	123.7	133.1	140.5	144.2
55°	44.4	47.1	52.3	60.1	71.6	83.8	95.7	106.5	115.3	120.7	124.1
57.5°	33.8	35.8	39.4	47.3	57.7	68.9	79.1	89.9	96.6	100.5	102.7
60°	25.7	27.3	31.1	37.2	46.6	56.3	64.9	73.0	78.4	81.5	83.8
62.5°	19.4	21.2	23.9	29.1	36.3	44.1	51.4	57.4	61.9	64.0	65.5
65°	13.3	14.6	16.7	20.7	26.8	32.4	38.1	42.6	45.5	47.8	48.7
67.5°	9.9	10.8	11.9	15.1	19.4	23.9	27.7	30.9	34.0	34.9	36.5
70°	7.4	8.1	9.2	11.5	14.0	17.1	20.3	22.1	24.3	25.9	26.4
72.5°	4.7	5.0	6.1	7.4	9.5	11.5	13.5	15.1	16.4	17.3	17.8
75°	2.7	4.1	4.1	5.4	6.8	7.7	9.0	10.1	10.8	11.5	11.5
77.5°	1.8	2.5	2.7	3.4	4.1	5.2	6.3	7.0	7.7	7.9	7.9
80°	1.6	1.8	1.8	2.5	2.9	3.8	4.5	4.7	5.2	5.4	5.9
82.5°	0.7	0.9	1.1	1.8	2.0	2.0	2.7	2.9	3.4	3.6	3.6
85°	0.2	0.5	0.5	0.7	1.1	1.4	1.6	1.8	2.0	2.0	2.3
87.5°	0.2	0.2	0.0	0.2	0.5	0.5	0.9	0.9	0.9	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: P245880

CATALOG NUMBER: LD8B10D010 ER8B109730 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	461.3	461.3	461.3	461.3	461.3	461.3	461.3
2.5°	457.2	457.5	456.6	456.3	455.9	456.1	456.6
5°	448.9	449.1	448.2	447.3	447.3	447.1	447.3
7.5°	441.0	441.2	439.9	439.4	438.5	438.8	438.8
10°	433.1	433.1	431.1	430.9	430.2	430.0	430.0
12.5°	425.5	424.8	423.2	422.3	422.8	421.4	421.4
15°	418.7	417.6	415.6	414.9	413.8	413.3	413.3
17.5°	411.7	410.8	409.0	407.7	406.3	406.1	406.3
20°	405.0	404.1	401.8	400.9	399.8	399.8	399.3
22.5°	398.2	397.3	395.3	394.6	393.0	393.0	393.3
25°	391.2	390.6	388.3	387.9	387.6	386.7	387.2
27.5°	381.8	381.3	379.5	378.8	377.9	377.7	378.2
30°	364.4	363.8	362.4	361.7	360.2	360.4	360.8
32.5°	342.8	341.9	340.1	339.4	338.1	337.6	337.8
35°	315.8	315.1	313.5	313.5	312.2	311.7	312.2
37.5°	288.3	289.0	288.3	289.0	288.3	288.1	288.3
40°	262.4	264.9	265.3	267.8	266.9	268.3	268.0
42.5°	237.6	241.7	243.3	245.3	244.8	245.7	246.4
45°	212.6	216.0	217.6	218.9	219.2	219.6	219.8
47.5°	189.0	191.7	191.9	193.5	193.3	193.3	193.9
50°	166.9	168.7	169.1	170.3	169.4	168.9	169.1
52.5°	146.4	148.2	147.7	148.2	147.1	146.6	146.9
55°	125.5	126.4	126.4	126.4	125.0	125.0	125.0
57.5°	104.1	104.3	103.8	104.1	103.8	102.5	102.3
60°	84.5	84.5	84.2	84.5	83.8	83.1	83.1
62.5°	66.0	66.4	67.3	66.4	66.0	66.4	65.8
65°	49.3	50.2	50.0	50.5	50.2	50.2	49.8
67.5°	37.2	37.4	37.6	37.8	37.8	37.8	37.8
70°	27.3	27.9	27.7	27.7	27.7	27.7	29.1
72.5°	18.2	19.1	18.9	19.4	19.4	19.8	19.4
75°	12.4	13.3	12.8	13.5	13.3	12.8	14.0
77.5°	8.3	8.8	9.0	9.2	9.0	8.8	9.0
80°	5.9	6.3	6.1	6.3	6.3	6.3	6.5
82.5°	3.6	4.3	4.1	4.3	4.1	4.3	4.3
85°	2.5	2.7	2.3	2.7	2.5	2.5	2.9
87.5°	1.6	1.4	1.4	1.6	1.4	1.6	1.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)