

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: P245934

Luminaire Tested: **LD8B10D010 ER8B10940 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245934
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 ER8B10940 8LBSW0B
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 4000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 776.0 lumens
Efficiency: N/A
Efficacy: 76.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

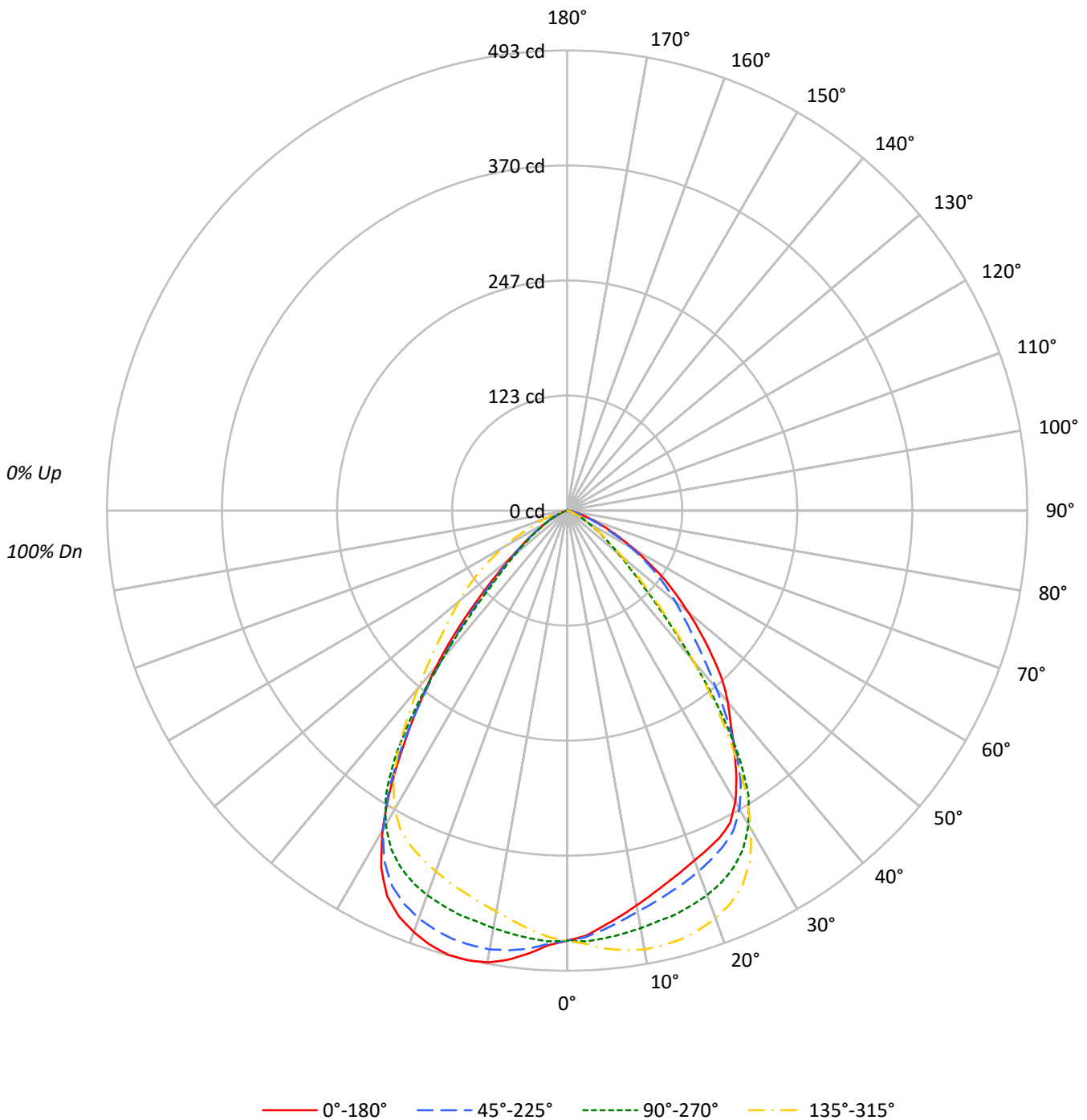
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	14206	14206	14206	14206
5°	13827	14239	14747	14239
10°	13445	14222	15390	14222
15°	13178	14305	15726	14305
20°	13087	14386	15768	14386
25°	13157	14358	15515	14358
30°	12833	13833	14082	13833
35°	11737	12065	11448	12065
40°	10776	8393	8767	8393
45°	9572	5120	5926	5120
50°	8103	3420	3799	3420
55°	6709	2333	2468	2333
60°	5119	1554	1566	1554
65°	3626	970	883	970
70°	2615	649	586	649
75°	1656	322	262	322
80°	1154	249	195	249
85°	1026	0	71	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.8	5.7
10°-20°	127.0	16.4
20°-30°	192.3	24.8
30°-40°	192.7	24.8
40°-50°	121.0	15.6
50°-60°	64.5	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°	363.1	46.8
0°-40°	555.8	71.6
0°-60°	741.3	95.5
0°-90°	776.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	776.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	461	461	461	461	461	
5°	447	460	476	460	447	42
15°	413	448	493	448	413	117
25°	387	422	456	422	387	177
35°	312	320	304	320	312	195
45°	220	117	136	117	220	169
55°	125	43	46	43	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°	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7
2.5°	456.0	455.5	455.3	455.7	456.0	456.9	456.6	457.1	457.1	457.3	457.8
5°	446.7	446.5	446.7	446.7	447.6	448.5	448.3	449.0	449.4	450.6	451.0
7.5°	438.2	438.2	438.0	438.9	439.3	440.7	440.4	441.6	442.2	443.4	444.9
10°	429.4	429.4	429.6	430.3	430.5	432.6	432.6	434.1	435.0	436.2	438.2
12.5°	420.9	420.9	422.2	421.8	422.7	424.2	424.9	426.5	427.8	430.1	432.1
15°	412.8	412.8	413.2	414.3	415.0	417.0	418.2	420.0	421.5	423.8	426.7
17.5°	405.8	405.6	405.8	407.2	408.5	410.3	411.2	413.4	415.0	417.9	420.7
20°	398.8	399.3	399.3	400.4	401.3	403.5	404.4	406.9	408.7	411.4	414.6
22.5°	392.8	392.5	392.5	394.1	394.8	396.8	397.7	399.9	402.0	404.2	407.2
25°	386.7	386.2	387.1	387.4	387.8	390.1	390.7	392.3	394.3	396.4	399.3
27.5°	377.7	377.2	377.5	378.4	379.0	380.8	381.3	382.9	384.4	386.2	388.7
30°	360.4	359.9	359.7	361.3	361.9	363.3	364.0	366.7	367.1	369.1	370.9
32.5°	337.4	337.2	337.6	339.0	339.7	341.5	342.4	343.9	345.1	346.2	348.0
35°	311.8	311.3	311.8	313.1	313.1	314.7	315.4	316.0	315.8	316.0	315.6
37.5°	287.9	287.7	287.9	288.6	287.9	288.6	287.9	286.6	284.1	281.4	278.7
40°	267.7	267.9	266.6	267.5	265.0	264.5	262.1	258.7	253.7	248.3	240.7
42.5°	246.1	245.4	244.5	245.0	242.9	241.4	237.3	233.0	226.7	217.8	208.5
45°	219.5	219.3	218.9	218.6	217.3	215.7	212.3	207.4	200.4	191.2	180.2
47.5°	193.7	193.0	193.0	193.2	191.7	191.4	188.7	184.5	178.4	169.4	157.9
50°	168.9	168.7	169.2	170.1	168.9	168.5	166.7	163.8	158.4	150.7	139.9
52.5°	146.7	146.4	146.9	148.0	147.6	148.0	146.2	144.0	140.4	132.9	123.5
55°	124.8	124.8	124.8	126.2	126.2	126.2	125.3	123.9	120.6	115.2	106.4
57.5°	102.1	102.3	103.7	103.9	103.7	104.2	103.9	102.6	100.3	96.5	89.8
60°	83.0	83.0	83.7	84.4	84.1	84.4	84.4	83.7	81.4	78.3	72.9
62.5°	65.7	66.4	65.9	66.4	67.3	66.4	65.9	65.5	63.9	61.9	57.4
65°	49.7	50.2	50.2	50.4	49.9	50.2	49.3	48.6	47.7	45.4	42.5
67.5°	37.8	37.8	37.8	37.8	37.6	37.3	37.1	36.4	34.9	34.0	30.8
70°	29.0	27.7	27.7	27.7	27.7	27.9	27.2	26.3	25.9	24.3	22.0
72.5°	19.3	19.8	19.3	19.3	18.9	19.1	18.2	17.8	17.3	16.4	15.1
75°	13.9	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	7.6	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	4.0	4.3	4.0	4.3	3.6	3.6	3.6	3.4	2.9
85°	2.9	2.5	2.5	2.7	2.2	2.7	2.5	2.2	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7
2.5°	458.4	458.7	458.7	459.6	460.0	460.2	460.2	462.0	461.4	461.8	462.3
5°	451.9	453.3	453.7	453.7	456.2	457.1	458.0	460.0	460.2	461.6	463.2
7.5°	445.6	447.2	448.1	450.1	451.7	453.3	456.0	457.3	458.7	460.5	462.5
10°	439.5	441.3	443.1	444.7	447.2	449.2	451.0	454.2	455.7	458.2	460.9
12.5°	433.7	436.2	437.7	440.4	443.1	444.9	447.6	450.6	453.0	455.5	458.7
15°	428.5	431.4	433.2	436.2	439.1	441.6	444.5	448.1	449.9	452.8	455.7
17.5°	422.9	426.0	428.3	431.0	434.6	437.3	439.8	443.4	445.6	448.8	452.1
20°	417.0	420.2	422.9	425.6	429.2	431.9	434.8	438.4	440.9	444.0	446.7
22.5°	410.1	413.0	415.9	419.1	422.7	424.9	428.3	431.4	434.1	437.1	439.8
25°	401.1	404.7	406.9	409.8	412.8	415.2	418.8	422.0	424.2	426.9	429.4
27.5°	390.5	393.2	395.0	397.5	400.4	402.7	405.3	408.5	410.8	413.2	415.0
30°	372.5	375.0	376.6	378.4	381.3	383.3	385.6	388.5	390.1	391.9	393.4
32.5°	348.9	350.9	351.8	353.2	355.2	357.2	359.0	361.5	362.2	363.3	363.3
35°	314.7	315.1	314.9	315.4	316.3	317.4	319.0	320.5	321.4	321.4	320.8
37.5°	274.7	272.0	269.0	266.8	266.1	265.7	266.6	267.2	268.1	268.6	267.5
40°	233.0	227.0	220.4	214.6	210.5	208.8	208.1	208.5	208.5	210.1	210.1
42.5°	197.3	187.8	178.2	169.4	163.5	159.0	157.0	157.0	157.2	158.4	159.0
45°	167.6	155.7	144.4	134.7	126.6	120.8	118.1	117.4	117.2	117.6	119.2
47.5°	144.9	132.5	120.8	108.9	100.3	94.5	92.0	91.1	90.2	91.1	91.3
50°	127.1	114.3	101.9	90.0	81.0	75.8	72.7	71.3	71.1	71.1	71.5
52.5°	110.9	99.0	86.6	74.5	65.0	60.1	57.1	56.5	55.6	56.5	56.5
55°	95.6	83.7	71.5	60.1	52.2	47.0	44.3	43.4	43.0	43.6	43.6
57.5°	79.0	68.8	57.6	47.2	39.4	35.8	33.7	32.6	32.4	32.8	32.4
60°	64.8	56.2	46.6	37.1	31.0	27.2	25.6	25.2	24.7	25.2	25.2
62.5°	51.3	44.1	36.2	29.0	23.8	21.1	19.3	19.3	19.1	19.1	19.3
65°	38.0	32.4	26.8	20.7	16.6	14.6	13.3	13.3	13.0	13.3	13.0
67.5°	27.7	23.8	19.3	15.1	11.9	10.8	9.9	9.2	9.7	9.2	9.0
70°	20.2	17.1	13.9	11.5	9.2	8.1	7.4	7.2	6.7	6.7	6.7
72.5°	13.5	11.5	9.4	7.4	6.1	4.9	4.7	4.3	3.8	4.0	4.5
75°	9.0	7.6	6.7	5.4	4.0	4.0	2.7	2.7	2.2	2.7	2.0
77.5°	6.3	5.2	4.0	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



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7
2.5°	463.4	463.2	463.6	463.6	465.0	464.7	465.4	465.4	465.0	465.2	466.1
5°	465.0	465.6	467.0	468.1	470.1	471.0	472.2	473.3	473.5	474.2	474.9
7.5°	465.0	467.2	468.8	470.8	473.5	475.1	477.6	479.6	480.5	481.6	483.0
10°	464.1	466.3	469.2	471.5	474.9	477.3	479.8	483.0	484.3	486.1	487.9
12.5°	462.3	464.7	467.9	470.8	474.6	476.9	480.0	483.0	485.0	487.5	489.5
15°	459.6	462.5	465.4	468.3	472.4	475.1	478.0	481.4	483.4	486.1	487.9
17.5°	455.3	458.4	461.1	463.8	467.7	470.8	473.5	476.7	478.7	480.9	483.4
20°	450.1	453.0	456.0	458.2	462.0	464.7	467.7	470.6	472.2	472.6	476.4
22.5°	443.6	445.6	447.9	451.5	453.7	456.2	458.9	461.6	463.2	465.6	467.0
25°	432.8	434.8	437.3	438.9	441.6	443.6	446.3	449.2	450.1	451.9	453.3
27.5°	417.7	418.8	420.0	421.3	422.9	424.0	425.6	426.9	427.8	428.7	429.6
30°	393.9	393.9	393.9	393.0	393.7	394.3	394.6	394.3	394.3	394.1	394.1
32.5°	362.4	360.6	358.6	356.8	356.1	355.2	354.7	354.1	352.9	352.3	352.5
35°	319.9	315.8	313.3	311.1	309.3	308.0	307.3	306.6	306.4	305.5	304.6
37.5°	266.8	263.9	262.1	260.7	259.1	257.8	258.0	258.2	258.9	258.5	258.7
40°	210.5	209.9	210.5	209.0	208.5	209.0	210.1	211.7	212.6	213.5	215.0
42.5°	160.2	161.3	162.9	162.9	163.5	164.4	165.8	168.3	169.6	171.2	173.0
45°	120.6	121.9	123.9	124.6	125.1	126.2	127.8	129.8	130.7	132.0	133.6
47.5°	92.9	93.8	94.9	96.1	97.2	97.6	99.2	99.2	100.3	101.2	101.7
50°	72.4	73.3	74.2	74.9	75.4	76.0	76.5	77.2	77.4	77.8	78.1
52.5°	56.7	57.8	57.8	58.3	58.9	59.6	59.4	59.6	59.8	59.8	60.5
55°	44.3	44.3	45.0	45.0	45.4	45.2	45.4	45.4	45.4	45.4	45.7
57.5°	33.1	33.3	34.0	33.5	33.3	33.7	33.3	33.7	33.5	34.0	33.3
60°	25.4	25.4	25.6	25.6	25.9	25.9	25.9	25.6	25.6	25.4	25.4
62.5°	19.1	19.3	19.6	19.3	19.3	19.3	19.1	19.1	18.9	18.7	18.7
65°	12.8	12.6	13.0	12.6	12.8	12.8	12.6	12.8	12.1	12.4	12.1
67.5°	9.2	9.0	8.8	9.0	8.8	8.5	8.5	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	4.0	4.0	4.0	3.6	3.6	3.4
75°	1.8	2.5	2.0	1.8	2.5	2.5	2.2	2.2	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



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7
2.5°	465.9	465.6	465.9	466.1	465.9	465.6	465.9	466.1	465.2	465.0	465.4
5°	475.8	475.8	476.2	476.4	476.2	475.8	475.8	474.9	474.2	473.5	473.3
7.5°	484.3	484.8	485.2	485.4	485.2	484.8	484.3	483.0	481.6	480.5	479.6
10°	489.5	490.2	491.1	491.5	491.1	490.2	489.5	487.9	486.1	484.3	483.0
12.5°	491.7	492.4	493.5	493.3	493.5	492.4	491.7	489.5	487.5	485.0	483.0
15°	490.2	491.1	492.2	492.6	492.2	491.1	490.2	487.9	486.1	483.4	481.4
17.5°	485.2	486.6	487.2	487.9	487.2	486.6	485.2	483.4	480.9	478.7	476.7
20°	478.5	479.4	480.3	480.5	480.3	479.4	478.5	476.4	472.6	472.2	470.6
22.5°	468.8	469.5	471.5	470.8	471.5	469.5	468.8	467.0	465.6	463.2	461.6
25°	454.8	455.5	455.7	456.0	455.7	455.5	454.8	453.3	451.9	450.1	449.2
27.5°	430.8	430.8	431.2	431.4	431.2	430.8	430.8	429.6	428.7	427.8	426.9
30°	394.3	394.3	394.3	395.5	394.3	394.3	394.3	394.1	394.1	394.3	394.3
32.5°	352.3	351.8	351.4	351.8	351.4	351.8	352.3	352.5	352.3	352.9	354.1
35°	304.6	304.3	305.0	304.1	305.0	304.3	304.6	304.6	305.5	306.4	306.6
37.5°	258.9	258.5	259.4	258.5	259.4	258.5	258.9	258.7	258.5	258.9	258.2
40°	215.5	215.9	215.9	217.8	215.9	215.9	215.5	215.0	213.5	212.6	211.7
42.5°	173.9	175.2	174.8	176.1	174.8	175.2	173.9	173.0	171.2	169.6	168.3
45°	134.5	135.4	135.4	135.9	135.4	135.4	134.5	133.6	132.0	130.7	129.8
47.5°	103.2	103.2	103.2	103.5	103.2	103.2	103.2	101.7	101.2	100.3	99.2
50°	78.5	78.7	79.0	79.2	79.0	78.7	78.5	78.1	77.8	77.4	77.2
52.5°	60.3	60.5	60.1	60.5	60.1	60.5	60.3	60.5	59.8	59.8	59.6
55°	45.7	45.4	45.7	45.9	45.7	45.4	45.7	45.7	45.4	45.4	45.4
57.5°	33.5	33.1	33.1	33.1	33.1	33.1	33.5	33.3	34.0	33.5	33.7
60°	25.0	25.2	25.2	25.4	25.2	25.2	25.0	25.4	25.4	25.6	25.6
62.5°	18.4	19.1	18.7	19.1	18.7	19.1	18.4	18.7	18.7	18.9	19.1
65°	11.9	11.9	11.9	12.1	11.9	11.9	11.9	12.1	12.4	12.1	12.8
67.5°	8.1	8.3	8.8	8.5	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	4.0
75°	2.0	1.8	1.6	2.2	1.6	1.8	2.0	2.0	2.0	2.0	2.2
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: P245934

CATALOG NUMBER: LD8B10D010 ER8B10940 8LBSW0B

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7
2.5°	465.4	464.7	465.0	463.6	463.6	463.2	463.4	462.3	461.8	461.4	462.0
5°	472.2	471.0	470.1	468.1	467.0	465.6	465.0	463.2	461.6	460.2	460.0
7.5°	477.6	475.1	473.5	470.8	468.8	467.2	465.0	462.5	460.5	458.7	457.3
10°	479.8	477.3	474.9	471.5	469.2	466.3	464.1	460.9	458.2	455.7	454.2
12.5°	480.0	476.9	474.6	470.8	467.9	464.7	462.3	458.7	455.5	453.0	450.6
15°	478.0	475.1	472.4	468.3	465.4	462.5	459.6	455.7	452.8	449.9	448.1
17.5°	473.5	470.8	467.7	463.8	461.1	458.4	455.3	452.1	448.8	445.6	443.4
20°	467.7	464.7	462.0	458.2	456.0	453.0	450.1	446.7	444.0	440.9	438.4
22.5°	458.9	456.2	453.7	451.5	447.9	445.6	443.6	439.8	437.1	434.1	431.4
25°	446.3	443.6	441.6	438.9	437.3	434.8	432.8	429.4	426.9	424.2	422.0
27.5°	425.6	424.0	422.9	421.3	420.0	418.8	417.7	415.0	413.2	410.8	408.5
30°	394.6	394.3	393.7	393.0	393.9	393.9	393.9	393.4	391.9	390.1	388.5
32.5°	354.7	355.2	356.1	356.8	358.6	360.6	362.4	363.3	363.3	362.2	361.5
35°	307.3	308.0	309.3	311.1	313.3	315.8	319.9	320.8	321.4	321.4	320.5
37.5°	258.0	257.8	259.1	260.7	262.1	263.9	266.8	267.5	268.6	268.1	267.2
40°	210.1	209.0	208.5	209.0	210.5	209.9	210.5	210.1	210.1	208.5	208.5
42.5°	165.8	164.4	163.5	162.9	162.9	161.3	160.2	159.0	158.4	157.2	157.0
45°	127.8	126.2	125.1	124.6	123.9	121.9	120.6	119.2	117.6	117.2	117.4
47.5°	99.2	97.6	97.2	96.1	94.9	93.8	92.9	91.3	91.1	90.2	91.1
50°	76.5	76.0	75.4	74.9	74.2	73.3	72.4	71.5	71.1	71.1	71.3
52.5°	59.4	59.6	58.9	58.3	57.8	57.8	56.7	56.5	56.5	55.6	56.5
55°	45.4	45.2	45.4	45.0	45.0	44.3	44.3	43.6	43.6	43.0	43.4
57.5°	33.3	33.7	33.3	33.5	34.0	33.3	33.1	32.4	32.8	32.4	32.6
60°	25.9	25.9	25.9	25.6	25.6	25.4	25.4	25.2	25.2	24.7	25.2
62.5°	19.1	19.3	19.3	19.3	19.6	19.3	19.1	19.3	19.1	19.1	19.3
65°	12.6	12.8	12.8	12.6	13.0	12.6	12.8	13.0	13.3	13.0	13.3
67.5°	8.5	8.5	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	6.7	6.7	6.7	7.2
72.5°	4.0	4.0	3.8	3.8	3.8	3.8	3.8	4.5	4.0	3.8	4.3
75°	2.2	2.5	2.5	1.8	2.0	2.5	1.8	2.0	2.7	2.2	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: P245934

CATALOG NUMBER: LD8B10D010 ER8B10940 8LBSW0B

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7	460.7
2.5°	460.2	460.2	460.0	459.6	458.7	458.7	458.4	457.8	457.3	457.1	457.1
5°	458.0	457.1	456.2	453.7	453.7	453.3	451.9	451.0	450.6	449.4	449.0
7.5°	456.0	453.3	451.7	450.1	448.1	447.2	445.6	444.9	443.4	442.2	441.6
10°	451.0	449.2	447.2	444.7	443.1	441.3	439.5	438.2	436.2	435.0	434.1
12.5°	447.6	444.9	443.1	440.4	437.7	436.2	433.7	432.1	430.1	427.8	426.5
15°	444.5	441.6	439.1	436.2	433.2	431.4	428.5	426.7	423.8	421.5	420.0
17.5°	439.8	437.3	434.6	431.0	428.3	426.0	422.9	420.7	417.9	415.0	413.4
20°	434.8	431.9	429.2	425.6	422.9	420.2	417.0	414.6	411.4	408.7	406.9
22.5°	428.3	424.9	422.7	419.1	415.9	413.0	410.1	407.2	404.2	402.0	399.9
25°	418.8	415.2	412.8	409.8	406.9	404.7	401.1	399.3	396.4	394.3	392.3
27.5°	405.3	402.7	400.4	397.5	395.0	393.2	390.5	388.7	386.2	384.4	382.9
30°	385.6	383.3	381.3	378.4	376.6	375.0	372.5	370.9	369.1	367.1	366.7
32.5°	359.0	357.2	355.2	353.2	351.8	350.9	348.9	348.0	346.2	345.1	343.9
35°	319.0	317.4	316.3	315.4	314.9	315.1	314.7	315.6	316.0	315.8	316.0
37.5°	266.6	265.7	266.1	266.8	269.0	272.0	274.7	278.7	281.4	284.1	286.6
40°	208.1	208.8	210.5	214.6	220.4	227.0	233.0	240.7	248.3	253.7	258.7
42.5°	157.0	159.0	163.5	169.4	178.2	187.8	197.3	208.5	217.8	226.7	233.0
45°	118.1	120.8	126.6	134.7	144.4	155.7	167.6	180.2	191.2	200.4	207.4
47.5°	92.0	94.5	100.3	108.9	120.8	132.5	144.9	157.9	169.4	178.4	184.5
50°	72.7	75.8	81.0	90.0	101.9	114.3	127.1	139.9	150.7	158.4	163.8
52.5°	57.1	60.1	65.0	74.5	86.6	99.0	110.9	123.5	132.9	140.4	144.0
55°	44.3	47.0	52.2	60.1	71.5	83.7	95.6	106.4	115.2	120.6	123.9
57.5°	33.7	35.8	39.4	47.2	57.6	68.8	79.0	89.8	96.5	100.3	102.6
60°	25.6	27.2	31.0	37.1	46.6	56.2	64.8	72.9	78.3	81.4	83.7
62.5°	19.3	21.1	23.8	29.0	36.2	44.1	51.3	57.4	61.9	63.9	65.5
65°	13.3	14.6	16.6	20.7	26.8	32.4	38.0	42.5	45.4	47.7	48.6
67.5°	9.9	10.8	11.9	15.1	19.3	23.8	27.7	30.8	34.0	34.9	36.4
70°	7.4	8.1	9.2	11.5	13.9	17.1	20.2	22.0	24.3	25.9	26.3
72.5°	4.7	4.9	6.1	7.4	9.4	11.5	13.5	15.1	16.4	17.3	17.8
75°	2.7	4.0	4.0	5.4	6.7	7.6	9.0	10.1	10.8	11.5	11.5
77.5°	1.8	2.5	2.7	3.4	4.0	5.2	6.3	7.0	7.6	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	2.2
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: P245934

CATALOG NUMBER: LD8B10D010 ER8B10940 8LBSW0B

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	460.7	460.7	460.7	460.7	460.7	460.7	460.7
2.5°	456.6	456.9	456.0	455.7	455.3	455.5	456.0
5°	448.3	448.5	447.6	446.7	446.7	446.5	446.7
7.5°	440.4	440.7	439.3	438.9	438.0	438.2	438.2
10°	432.6	432.6	430.5	430.3	429.6	429.4	429.4
12.5°	424.9	424.2	422.7	421.8	422.2	420.9	420.9
15°	418.2	417.0	415.0	414.3	413.2	412.8	412.8
17.5°	411.2	410.3	408.5	407.2	405.8	405.6	405.8
20°	404.4	403.5	401.3	400.4	399.3	399.3	398.8
22.5°	397.7	396.8	394.8	394.1	392.5	392.5	392.8
25°	390.7	390.1	387.8	387.4	387.1	386.2	386.7
27.5°	381.3	380.8	379.0	378.4	377.5	377.2	377.7
30°	364.0	363.3	361.9	361.3	359.7	359.9	360.4
32.5°	342.4	341.5	339.7	339.0	337.6	337.2	337.4
35°	315.4	314.7	313.1	313.1	311.8	311.3	311.8
37.5°	287.9	288.6	287.9	288.6	287.9	287.7	287.9
40°	262.1	264.5	265.0	267.5	266.6	267.9	267.7
42.5°	237.3	241.4	242.9	245.0	244.5	245.4	246.1
45°	212.3	215.7	217.3	218.6	218.9	219.3	219.5
47.5°	188.7	191.4	191.7	193.2	193.0	193.0	193.7
50°	166.7	168.5	168.9	170.1	169.2	168.7	168.9
52.5°	146.2	148.0	147.6	148.0	146.9	146.4	146.7
55°	125.3	126.2	126.2	126.2	124.8	124.8	124.8
57.5°	103.9	104.2	103.7	103.9	103.7	102.3	102.1
60°	84.4	84.4	84.1	84.4	83.7	83.0	83.0
62.5°	65.9	66.4	67.3	66.4	65.9	66.4	65.7
65°	49.3	50.2	49.9	50.4	50.2	50.2	49.7
67.5°	37.1	37.3	37.6	37.8	37.8	37.8	37.8
70°	27.2	27.9	27.7	27.7	27.7	27.7	29.0
72.5°	18.2	19.1	18.9	19.3	19.3	19.8	19.3
75°	12.4	13.3	12.8	13.5	13.3	12.8	13.9
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	4.0	4.3	4.0	4.3	4.3
85°	2.5	2.7	2.2	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)