

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: P245928

Luminaire Tested: **LD8B10D010 ER8B10935 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245928
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 ER8B10935 8LBSW0B
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 3500 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 743.0 lumens
Efficiency: N/A
Efficacy: 72.8 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

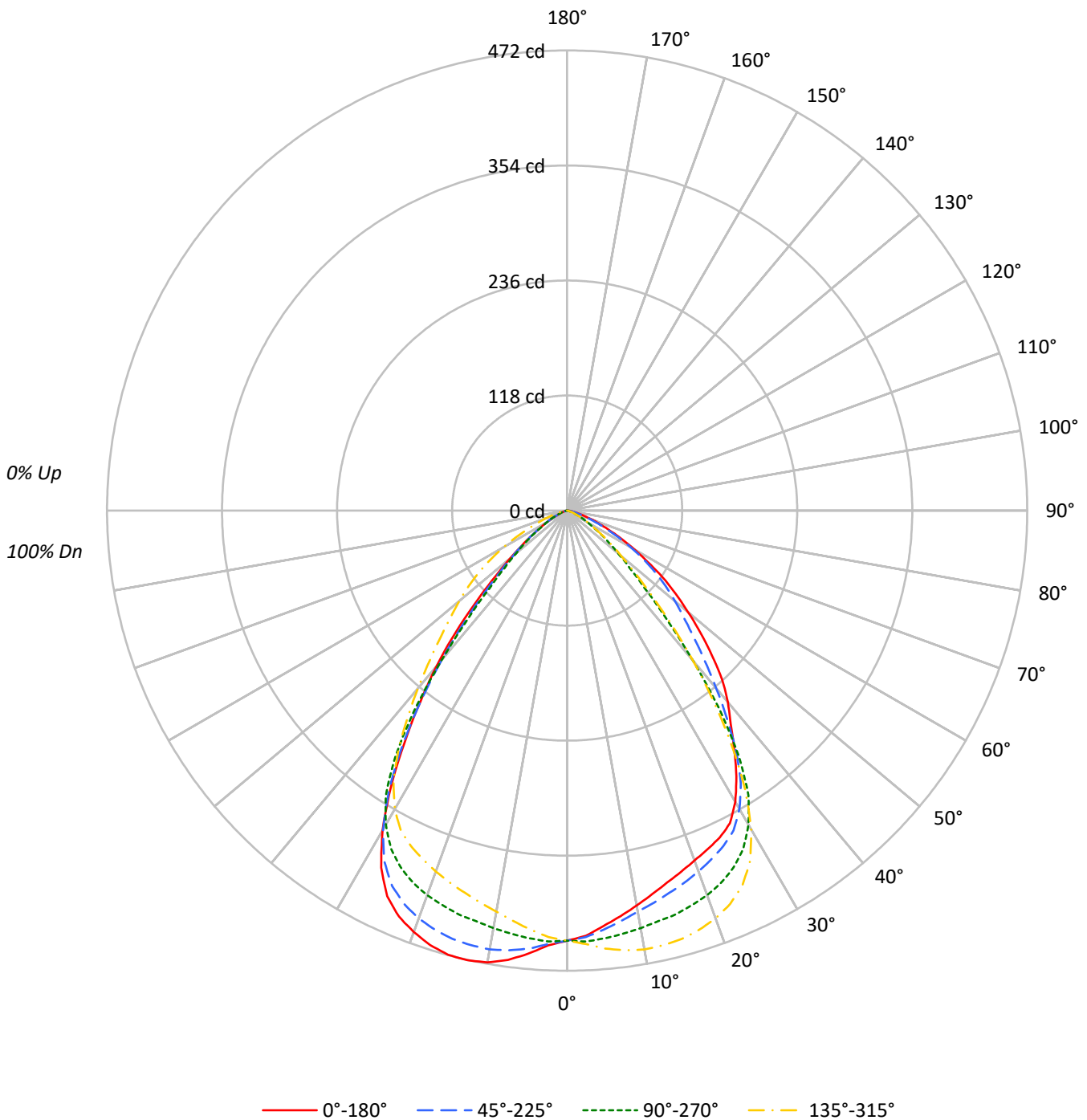
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	13602	13602	13602	13602
5°	13239	13632	14121	13632
10°	12876	13614	14735	13614
15°	12616	13695	15059	13695
20°	12532	13776	15095	13776
25°	12596	13746	14855	13746
30°	12284	13246	13481	13246
35°	11237	11553	10962	11553
40°	10317	8039	8393	8039
45°	9167	4902	5674	4902
50°	7757	3277	3636	3277
55°	6424	2236	2360	2236
60°	4903	1486	1499	1486
65°	3473	927	846	927
70°	2506	622	559	622
75°	1597	310	262	310
80°	1101	231	195	231
85°	991	0	71	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.0	5.7
10°-20°	121.6	16.4
20°-30°	184.1	24.8
30°-40°	184.5	24.8
40°-50°	115.9	15.6
50°-60°	61.7	8.3
60°-70°	25.4	3.4
70°-80°	6.7	0.9
80°-90°	1.1	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°	347.7	46.8
0°-40°	532.2	71.6
0°-60°	709.8	95.5
0°-90°	743.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	743.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	441	441	441	441	441	
5°	428	440	456	440	428	40
15°	395	429	472	429	395	112
25°	370	404	437	404	370	170
35°	298	307	291	307	298	187
45°	210	112	130	112	210	162
55°	120	42	44	42	120	107
65°	48	13	12	13	48	49
75°	13	3	2	3	13	15
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°	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1
2.5°	436.6	436.1	435.9	436.4	436.6	437.4	437.2	437.6	437.6	437.9	438.3
5°	427.7	427.5	427.7	427.7	428.6	429.5	429.3	429.9	430.3	431.4	431.8
7.5°	419.6	419.6	419.3	420.2	420.6	421.9	421.7	422.8	423.4	424.5	426.0
10°	411.2	411.2	411.4	412.0	412.2	414.2	414.2	415.7	416.5	417.6	419.6
12.5°	403.0	403.0	404.3	403.8	404.7	406.2	406.8	408.4	409.7	411.8	413.7
15°	395.2	395.2	395.7	396.7	397.4	399.3	400.4	402.1	403.6	405.8	408.6
17.5°	388.5	388.3	388.5	389.8	391.1	392.9	393.7	395.9	397.4	400.2	402.8
20°	381.9	382.3	382.3	383.4	384.2	386.4	387.2	389.6	391.3	393.9	396.9
22.5°	376.1	375.8	375.8	377.3	378.0	379.9	380.8	382.9	384.9	387.0	389.8
25°	370.2	369.8	370.7	370.9	371.3	373.5	374.1	375.6	377.6	379.5	382.3
27.5°	361.6	361.2	361.4	362.3	362.9	364.6	365.1	366.6	368.1	369.8	372.2
30°	345.0	344.6	344.4	345.9	346.5	347.8	348.5	351.1	351.5	353.4	355.2
32.5°	323.1	322.9	323.3	324.6	325.2	326.9	327.8	329.3	330.4	331.5	333.2
35°	298.5	298.1	298.5	299.8	299.8	301.3	302.0	302.6	302.4	302.6	302.2
37.5°	275.7	275.5	275.7	276.3	275.7	276.3	275.7	274.4	272.0	269.4	266.9
40°	256.3	256.5	255.2	256.1	253.7	253.3	250.9	247.7	243.0	237.8	230.5
42.5°	235.6	235.0	234.1	234.5	232.6	231.1	227.2	223.1	217.1	208.5	199.7
45°	210.2	210.0	209.6	209.4	208.1	206.5	203.3	198.6	191.9	183.1	172.5
47.5°	185.4	184.8	184.8	185.0	183.5	183.3	180.7	176.6	170.8	162.2	151.2
50°	161.7	161.5	162.0	162.8	161.7	161.3	159.6	156.8	151.6	144.3	134.0
52.5°	140.4	140.2	140.6	141.7	141.3	141.7	140.0	137.8	134.4	127.3	118.2
55°	119.5	119.5	119.5	120.8	120.8	120.8	120.0	118.7	115.4	110.3	101.9
57.5°	97.8	98.0	99.3	99.5	99.3	99.7	99.5	98.2	96.1	92.4	85.9
60°	79.5	79.5	80.1	80.8	80.5	80.8	80.8	80.1	78.0	75.0	69.8
62.5°	62.9	63.5	63.1	63.5	64.4	63.5	63.1	62.7	61.2	59.2	54.9
65°	47.6	48.0	48.0	48.2	47.8	48.0	47.2	46.5	45.7	43.5	40.7
67.5°	36.2	36.2	36.2	36.2	36.0	35.8	35.5	34.9	33.4	32.5	29.5
70°	27.8	26.5	26.5	26.5	26.5	26.7	26.1	25.2	24.8	23.3	21.1
72.5°	18.5	19.0	18.5	18.5	18.1	18.3	17.4	17.0	16.6	15.7	14.4
75°	13.4	12.3	12.7	12.9	12.3	12.7	11.8	11.0	11.0	10.3	9.7
77.5°	8.6	8.4	8.6	8.8	8.6	8.4	8.0	7.5	7.5	7.3	6.7
80°	6.2	6.0	6.0	6.0	5.8	6.0	5.6	5.6	5.2	5.0	4.5
82.5°	4.1	4.1	3.9	4.1	3.9	4.1	3.4	3.4	3.4	3.2	2.8
85°	2.8	2.4	2.4	2.6	2.2	2.6	2.4	2.2	1.9	1.9	1.7
87.5°	1.3	1.5	1.3	1.5	1.3	1.3	1.5	1.3	1.3	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°	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1
2.5°	438.9	439.2	439.2	440.0	440.4	440.7	440.7	442.4	441.7	442.2	442.6
5°	432.7	434.0	434.4	434.4	436.8	437.6	438.5	440.4	440.7	442.0	443.5
7.5°	426.7	428.2	429.0	431.0	432.5	434.0	436.6	437.9	439.2	440.9	442.8
10°	420.8	422.6	424.3	425.8	428.2	430.1	431.8	434.8	436.4	438.7	441.3
12.5°	415.3	417.6	419.1	421.7	424.3	426.0	428.6	431.4	433.8	436.1	439.2
15°	410.3	413.1	414.8	417.6	420.4	422.8	425.6	429.0	430.8	433.6	436.4
17.5°	404.9	407.9	410.1	412.7	416.1	418.7	421.1	424.5	426.7	429.7	432.9
20°	399.3	402.3	404.9	407.5	410.9	413.5	416.3	419.8	422.1	425.2	427.7
22.5°	392.6	395.4	398.2	401.2	404.7	406.8	410.1	413.1	415.7	418.5	421.1
25°	384.0	387.5	389.6	392.4	395.2	397.6	401.0	404.0	406.2	408.8	411.2
27.5°	373.9	376.5	378.2	380.6	383.4	385.5	388.1	391.1	393.3	395.7	397.4
30°	356.7	359.0	360.5	362.3	365.1	367.0	369.2	372.0	373.5	375.2	376.7
32.5°	334.0	336.0	336.8	338.1	340.1	342.0	343.7	346.1	346.8	347.8	347.8
35°	301.3	301.7	301.5	302.0	302.8	303.9	305.4	306.9	307.8	307.8	307.1
37.5°	263.0	260.4	257.6	255.4	254.8	254.4	255.2	255.9	256.7	257.2	256.1
40°	223.1	217.3	211.1	205.5	201.6	199.9	199.2	199.7	199.7	201.2	201.2
42.5°	188.9	179.8	170.6	162.2	156.6	152.3	150.3	150.3	150.5	151.6	152.3
45°	160.5	149.0	138.3	129.0	121.3	115.7	113.1	112.4	112.2	112.6	114.1
47.5°	138.7	126.9	115.7	104.2	96.1	90.5	88.1	87.2	86.4	87.2	87.4
50°	121.7	109.4	97.6	86.2	77.5	72.6	69.6	68.3	68.1	68.1	68.5
52.5°	106.2	94.8	82.9	71.3	62.2	57.5	54.7	54.1	53.2	54.1	54.1
55°	91.5	80.1	68.5	57.5	50.0	45.0	42.4	41.6	41.1	41.8	41.8
57.5°	75.6	65.9	55.1	45.2	37.7	34.2	32.3	31.2	31.0	31.4	31.0
60°	62.0	53.8	44.6	35.5	29.7	26.1	24.6	24.1	23.7	24.1	24.1
62.5°	49.1	42.2	34.7	27.8	22.8	20.2	18.5	18.5	18.3	18.3	18.5
65°	36.4	31.0	25.6	19.8	15.9	14.0	12.7	12.7	12.5	12.7	12.5
67.5°	26.5	22.8	18.5	14.4	11.4	10.3	9.5	8.8	9.3	8.8	8.6
70°	19.4	16.4	13.4	11.0	8.8	7.8	7.1	6.9	6.5	6.5	6.5
72.5°	12.9	11.0	9.0	7.1	5.8	4.7	4.5	4.1	3.7	3.9	4.3
75°	8.6	7.3	6.5	5.2	3.9	3.9	2.6	2.6	2.2	2.6	1.9
77.5°	6.0	5.0	3.9	3.2	2.6	2.4	1.7	1.7	1.5	1.5	1.5
80°	4.3	3.7	2.8	2.4	1.7	1.7	1.5	1.3	1.1	1.1	1.3
82.5°	2.6	1.9	1.9	1.7	1.1	0.9	0.6	0.9	0.4	0.4	0.4
85°	1.5	1.3	1.1	0.6	0.4	0.4	0.2	0.0	0.2	0.2	0.0
87.5°	0.9	0.4	0.4	0.2	0.0	0.2	0.2	0.0	0.0	0.0	0.4
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°	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1
2.5°	443.7	443.5	443.9	443.9	445.2	445.0	445.6	445.6	445.2	445.4	446.3
5°	445.2	445.8	447.1	448.2	450.1	451.0	452.1	453.2	453.4	454.0	454.7
7.5°	445.2	447.3	448.9	450.8	453.4	454.9	457.2	459.2	460.0	461.1	462.4
10°	444.3	446.5	449.3	451.4	454.7	457.0	459.4	462.4	463.7	465.4	467.2
12.5°	442.6	445.0	448.0	450.8	454.4	456.6	459.6	462.4	464.4	466.7	468.7
15°	440.0	442.8	445.6	448.4	452.3	454.9	457.7	460.9	462.9	465.4	467.2
17.5°	435.9	438.9	441.5	444.1	447.8	450.8	453.4	456.4	458.3	460.5	462.9
20°	431.0	433.8	436.6	438.7	442.4	445.0	447.8	450.6	452.1	452.5	456.2
22.5°	424.7	426.7	428.8	432.3	434.4	436.8	439.4	442.0	443.5	445.8	447.1
25°	414.4	416.3	418.7	420.2	422.8	424.7	427.3	430.1	431.0	432.7	434.0
27.5°	400.0	401.0	402.1	403.4	404.9	406.0	407.5	408.8	409.7	410.5	411.4
30°	377.1	377.1	377.1	376.3	376.9	377.6	377.8	377.6	377.6	377.3	377.3
32.5°	347.0	345.3	343.3	341.6	340.9	340.1	339.7	339.0	337.9	337.3	337.5
35°	306.3	302.4	300.0	297.9	296.1	294.9	294.2	293.6	293.3	292.5	291.6
37.5°	255.4	252.6	250.9	249.6	248.1	246.8	247.0	247.3	247.9	247.5	247.7
40°	201.6	200.9	201.6	200.1	199.7	200.1	201.2	202.7	203.5	204.4	205.9
42.5°	153.3	154.4	155.9	155.9	156.6	157.4	158.7	161.1	162.4	163.9	165.6
45°	115.4	116.7	118.7	119.3	119.8	120.8	122.3	124.3	125.1	126.4	127.9
47.5°	89.0	89.8	90.9	92.0	93.0	93.5	95.0	95.0	96.1	96.9	97.3
50°	69.4	70.2	71.1	71.7	72.2	72.8	73.2	73.9	74.1	74.5	74.7
52.5°	54.3	55.4	55.4	55.8	56.4	57.1	56.9	57.1	57.3	57.3	57.9
55°	42.4	42.4	43.1	43.1	43.5	43.3	43.5	43.5	43.5	43.5	43.7
57.5°	31.7	31.9	32.5	32.1	31.9	32.3	31.9	32.3	32.1	32.5	31.9
60°	24.3	24.3	24.6	24.6	24.8	24.8	24.8	24.6	24.6	24.3	24.3
62.5°	18.3	18.5	18.7	18.5	18.5	18.5	18.3	18.3	18.1	17.9	17.9
65°	12.3	12.1	12.5	12.1	12.3	12.3	12.1	12.3	11.6	11.8	11.6
67.5°	8.8	8.6	8.4	8.6	8.4	8.2	8.2	8.4	8.6	8.0	8.0
70°	5.8	6.0	5.8	6.0	6.2	6.2	6.0	5.8	6.0	5.6	5.8
72.5°	3.7	3.7	3.7	3.7	3.7	3.9	3.9	3.9	3.4	3.4	3.2
75°	1.7	2.4	1.9	1.7	2.4	2.4	2.2	2.2	1.9	1.9	1.9
77.5°	1.7	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.1	1.3	1.1
80°	0.9	0.9	0.9	0.6	0.9	0.9	1.1	0.9	0.9	0.6	1.1
82.5°	0.4	0.4	0.4	0.0	0.2	0.4	0.4	0.2	0.4	0.4	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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CATALOG NUMBER: LD8B10D010 ER8B10935 8LBSW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1
2.5°	446.1	445.8	446.1	446.3	446.1	445.8	446.1	446.3	445.4	445.2	445.6
5°	455.5	455.5	456.0	456.2	456.0	455.5	455.5	454.7	454.0	453.4	453.2
7.5°	463.7	464.1	464.6	464.8	464.6	464.1	463.7	462.4	461.1	460.0	459.2
10°	468.7	469.3	470.2	470.6	470.2	469.3	468.7	467.2	465.4	463.7	462.4
12.5°	470.8	471.5	472.5	472.3	472.5	471.5	470.8	468.7	466.7	464.4	462.4
15°	469.3	470.2	471.2	471.7	471.2	470.2	469.3	467.2	465.4	462.9	460.9
17.5°	464.6	465.9	466.5	467.2	466.5	465.9	464.6	462.9	460.5	458.3	456.4
20°	458.1	459.0	459.8	460.0	459.8	459.0	458.1	456.2	452.5	452.1	450.6
22.5°	448.9	449.5	451.4	450.8	451.4	449.5	448.9	447.1	445.8	443.5	442.0
25°	435.5	436.1	436.4	436.6	436.4	436.1	435.5	434.0	432.7	431.0	430.1
27.5°	412.5	412.5	412.9	413.1	412.9	412.5	412.5	411.4	410.5	409.7	408.8
30°	377.6	377.6	377.6	378.6	377.6	377.6	377.6	377.3	377.3	377.6	377.6
32.5°	337.3	336.8	336.4	336.8	336.4	336.8	337.3	337.5	337.3	337.9	339.0
35°	291.6	291.4	292.1	291.2	292.1	291.4	291.6	291.6	292.5	293.3	293.6
37.5°	247.9	247.5	248.3	247.5	248.3	247.5	247.9	247.7	247.5	247.9	247.3
40°	206.3	206.8	206.8	208.5	206.8	206.8	206.3	205.9	204.4	203.5	202.7
42.5°	166.5	167.8	167.3	168.6	167.3	167.8	166.5	165.6	163.9	162.4	161.1
45°	128.8	129.7	129.7	130.1	129.7	129.7	128.8	127.9	126.4	125.1	124.3
47.5°	98.9	98.9	98.9	99.1	98.9	98.9	98.9	97.3	96.9	96.1	95.0
50°	75.2	75.4	75.6	75.8	75.6	75.4	75.2	74.7	74.5	74.1	73.9
52.5°	57.7	57.9	57.5	57.9	57.5	57.9	57.7	57.9	57.3	57.3	57.1
55°	43.7	43.5	43.7	43.9	43.7	43.5	43.7	43.7	43.5	43.5	43.5
57.5°	32.1	31.7	31.7	31.7	31.7	31.7	32.1	31.9	32.5	32.1	32.3
60°	23.9	24.1	24.1	24.3	24.1	24.1	23.9	24.3	24.3	24.6	24.6
62.5°	17.7	18.3	17.9	18.3	17.9	18.3	17.7	17.9	17.9	18.1	18.3
65°	11.4	11.4	11.4	11.6	11.4	11.4	11.4	11.6	11.8	11.6	12.3
67.5°	7.8	8.0	8.4	8.2	8.4	8.0	7.8	8.0	8.0	8.6	8.4
70°	6.2	5.6	5.6	6.2	5.6	5.6	6.2	5.8	5.6	6.0	5.8
72.5°	3.7	3.2	3.7	3.7	3.7	3.2	3.7	3.2	3.4	3.4	3.9
75°	1.9	1.7	1.5	2.2	1.5	1.7	1.9	1.9	1.9	1.9	2.2
77.5°	1.3	1.1	1.5	1.5	1.5	1.1	1.3	1.1	1.3	1.1	1.3
80°	0.6	0.9	0.6	1.1	0.6	0.9	0.6	1.1	0.6	0.9	0.9
82.5°	0.2	0.4	0.4	0.4	0.4	0.4	0.2	0.2	0.4	0.4	0.2
85°	0.0	0.4	0.2	0.2	0.2	0.4	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: P245928

CATALOG NUMBER: LD8B10D010 ER8B10935 8LBSW0B

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1
2.5°	445.6	445.0	445.2	443.9	443.9	443.5	443.7	442.6	442.2	441.7	442.4
5°	452.1	451.0	450.1	448.2	447.1	445.8	445.2	443.5	442.0	440.7	440.4
7.5°	457.2	454.9	453.4	450.8	448.9	447.3	445.2	442.8	440.9	439.2	437.9
10°	459.4	457.0	454.7	451.4	449.3	446.5	444.3	441.3	438.7	436.4	434.8
12.5°	459.6	456.6	454.4	450.8	448.0	445.0	442.6	439.2	436.1	433.8	431.4
15°	457.7	454.9	452.3	448.4	445.6	442.8	440.0	436.4	433.6	430.8	429.0
17.5°	453.4	450.8	447.8	444.1	441.5	438.9	435.9	432.9	429.7	426.7	424.5
20°	447.8	445.0	442.4	438.7	436.6	433.8	431.0	427.7	425.2	422.1	419.8
22.5°	439.4	436.8	434.4	432.3	428.8	426.7	424.7	421.1	418.5	415.7	413.1
25°	427.3	424.7	422.8	420.2	418.7	416.3	414.4	411.2	408.8	406.2	404.0
27.5°	407.5	406.0	404.9	403.4	402.1	401.0	400.0	397.4	395.7	393.3	391.1
30°	377.8	377.6	376.9	376.3	377.1	377.1	377.1	376.7	375.2	373.5	372.0
32.5°	339.7	340.1	340.9	341.6	343.3	345.3	347.0	347.8	347.8	346.8	346.1
35°	294.2	294.9	296.1	297.9	300.0	302.4	306.3	307.1	307.8	307.8	306.9
37.5°	247.0	246.8	248.1	249.6	250.9	252.6	255.4	256.1	257.2	256.7	255.9
40°	201.2	200.1	199.7	200.1	201.6	200.9	201.6	201.2	201.2	199.7	199.7
42.5°	158.7	157.4	156.6	155.9	155.9	154.4	153.3	152.3	151.6	150.5	150.3
45°	122.3	120.8	119.8	119.3	118.7	116.7	115.4	114.1	112.6	112.2	112.4
47.5°	95.0	93.5	93.0	92.0	90.9	89.8	89.0	87.4	87.2	86.4	87.2
50°	73.2	72.8	72.2	71.7	71.1	70.2	69.4	68.5	68.1	68.1	68.3
52.5°	56.9	57.1	56.4	55.8	55.4	55.4	54.3	54.1	54.1	53.2	54.1
55°	43.5	43.3	43.5	43.1	43.1	42.4	42.4	41.8	41.8	41.1	41.6
57.5°	31.9	32.3	31.9	32.1	32.5	31.9	31.7	31.0	31.4	31.0	31.2
60°	24.8	24.8	24.8	24.6	24.6	24.3	24.3	24.1	24.1	23.7	24.1
62.5°	18.3	18.5	18.5	18.5	18.7	18.5	18.3	18.5	18.3	18.3	18.5
65°	12.1	12.3	12.3	12.1	12.5	12.1	12.3	12.5	12.7	12.5	12.7
67.5°	8.2	8.2	8.4	8.6	8.4	8.6	8.8	8.6	8.8	9.3	8.8
70°	6.0	6.2	6.2	6.0	5.8	6.0	5.8	6.5	6.5	6.5	6.9
72.5°	3.9	3.9	3.7	3.7	3.7	3.7	3.7	4.3	3.9	3.7	4.1
75°	2.2	2.4	2.4	1.7	1.9	2.4	1.7	1.9	2.6	2.2	2.6
77.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.7	1.5	1.5	1.5	1.7
80°	1.1	0.9	0.9	0.6	0.9	0.9	0.9	1.3	1.1	1.1	1.3
82.5°	0.4	0.4	0.2	0.0	0.4	0.4	0.4	0.4	0.4	0.4	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	0.4	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: P245928

CATALOG NUMBER: LD8B10D010 ER8B10935 8LBSW0B

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1
2.5°	440.7	440.7	440.4	440.0	439.2	439.2	438.9	438.3	437.9	437.6	437.6
5°	438.5	437.6	436.8	434.4	434.4	434.0	432.7	431.8	431.4	430.3	429.9
7.5°	436.6	434.0	432.5	431.0	429.0	428.2	426.7	426.0	424.5	423.4	422.8
10°	431.8	430.1	428.2	425.8	424.3	422.6	420.8	419.6	417.6	416.5	415.7
12.5°	428.6	426.0	424.3	421.7	419.1	417.6	415.3	413.7	411.8	409.7	408.4
15°	425.6	422.8	420.4	417.6	414.8	413.1	410.3	408.6	405.8	403.6	402.1
17.5°	421.1	418.7	416.1	412.7	410.1	407.9	404.9	402.8	400.2	397.4	395.9
20°	416.3	413.5	410.9	407.5	404.9	402.3	399.3	396.9	393.9	391.3	389.6
22.5°	410.1	406.8	404.7	401.2	398.2	395.4	392.6	389.8	387.0	384.9	382.9
25°	401.0	397.6	395.2	392.4	389.6	387.5	384.0	382.3	379.5	377.6	375.6
27.5°	388.1	385.5	383.4	380.6	378.2	376.5	373.9	372.2	369.8	368.1	366.6
30°	369.2	367.0	365.1	362.3	360.5	359.0	356.7	355.2	353.4	351.5	351.1
32.5°	343.7	342.0	340.1	338.1	336.8	336.0	334.0	333.2	331.5	330.4	329.3
35°	305.4	303.9	302.8	302.0	301.5	301.7	301.3	302.2	302.6	302.4	302.6
37.5°	255.2	254.4	254.8	255.4	257.6	260.4	263.0	266.9	269.4	272.0	274.4
40°	199.2	199.9	201.6	205.5	211.1	217.3	223.1	230.5	237.8	243.0	247.7
42.5°	150.3	152.3	156.6	162.2	170.6	179.8	188.9	199.7	208.5	217.1	223.1
45°	113.1	115.7	121.3	129.0	138.3	149.0	160.5	172.5	183.1	191.9	198.6
47.5°	88.1	90.5	96.1	104.2	115.7	126.9	138.7	151.2	162.2	170.8	176.6
50°	69.6	72.6	77.5	86.2	97.6	109.4	121.7	134.0	144.3	151.6	156.8
52.5°	54.7	57.5	62.2	71.3	82.9	94.8	106.2	118.2	127.3	134.4	137.8
55°	42.4	45.0	50.0	57.5	68.5	80.1	91.5	101.9	110.3	115.4	118.7
57.5°	32.3	34.2	37.7	45.2	55.1	65.9	75.6	85.9	92.4	96.1	98.2
60°	24.6	26.1	29.7	35.5	44.6	53.8	62.0	69.8	75.0	78.0	80.1
62.5°	18.5	20.2	22.8	27.8	34.7	42.2	49.1	54.9	59.2	61.2	62.7
65°	12.7	14.0	15.9	19.8	25.6	31.0	36.4	40.7	43.5	45.7	46.5
67.5°	9.5	10.3	11.4	14.4	18.5	22.8	26.5	29.5	32.5	33.4	34.9
70°	7.1	7.8	8.8	11.0	13.4	16.4	19.4	21.1	23.3	24.8	25.2
72.5°	4.5	4.7	5.8	7.1	9.0	11.0	12.9	14.4	15.7	16.6	17.0
75°	2.6	3.9	3.9	5.2	6.5	7.3	8.6	9.7	10.3	11.0	11.0
77.5°	1.7	2.4	2.6	3.2	3.9	5.0	6.0	6.7	7.3	7.5	7.5
80°	1.5	1.7	1.7	2.4	2.8	3.7	4.3	4.5	5.0	5.2	5.6
82.5°	0.6	0.9	1.1	1.7	1.9	1.9	2.6	2.8	3.2	3.4	3.4
85°	0.2	0.4	0.4	0.6	1.1	1.3	1.5	1.7	1.9	1.9	2.2
87.5°	0.2	0.2	0.0	0.2	0.4	0.4	0.9	0.9	0.9	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: P245928

CATALOG NUMBER: LD8B10D010 ER8B10935 8LBSW0B

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	441.1	441.1	441.1	441.1	441.1	441.1	441.1
2.5°	437.2	437.4	436.6	436.4	435.9	436.1	436.6
5°	429.3	429.5	428.6	427.7	427.7	427.5	427.7
7.5°	421.7	421.9	420.6	420.2	419.3	419.6	419.6
10°	414.2	414.2	412.2	412.0	411.4	411.2	411.2
12.5°	406.8	406.2	404.7	403.8	404.3	403.0	403.0
15°	400.4	399.3	397.4	396.7	395.7	395.2	395.2
17.5°	393.7	392.9	391.1	389.8	388.5	388.3	388.5
20°	387.2	386.4	384.2	383.4	382.3	382.3	381.9
22.5°	380.8	379.9	378.0	377.3	375.8	375.8	376.1
25°	374.1	373.5	371.3	370.9	370.7	369.8	370.2
27.5°	365.1	364.6	362.9	362.3	361.4	361.2	361.6
30°	348.5	347.8	346.5	345.9	344.4	344.6	345.0
32.5°	327.8	326.9	325.2	324.6	323.3	322.9	323.1
35°	302.0	301.3	299.8	299.8	298.5	298.1	298.5
37.5°	275.7	276.3	275.7	276.3	275.7	275.5	275.7
40°	250.9	253.3	253.7	256.1	255.2	256.5	256.3
42.5°	227.2	231.1	232.6	234.5	234.1	235.0	235.6
45°	203.3	206.5	208.1	209.4	209.6	210.0	210.2
47.5°	180.7	183.3	183.5	185.0	184.8	184.8	185.4
50°	159.6	161.3	161.7	162.8	162.0	161.5	161.7
52.5°	140.0	141.7	141.3	141.7	140.6	140.2	140.4
55°	120.0	120.8	120.8	120.8	119.5	119.5	119.5
57.5°	99.5	99.7	99.3	99.5	99.3	98.0	97.8
60°	80.8	80.8	80.5	80.8	80.1	79.5	79.5
62.5°	63.1	63.5	64.4	63.5	63.1	63.5	62.9
65°	47.2	48.0	47.8	48.2	48.0	48.0	47.6
67.5°	35.5	35.8	36.0	36.2	36.2	36.2	36.2
70°	26.1	26.7	26.5	26.5	26.5	26.5	27.8
72.5°	17.4	18.3	18.1	18.5	18.5	19.0	18.5
75°	11.8	12.7	12.3	12.9	12.7	12.3	13.4
77.5°	8.0	8.4	8.6	8.8	8.6	8.4	8.6
80°	5.6	6.0	5.8	6.0	6.0	6.0	6.2
82.5°	3.4	4.1	3.9	4.1	3.9	4.1	4.1
85°	2.4	2.6	2.2	2.6	2.4	2.4	2.8
87.5°	1.5	1.3	1.3	1.5	1.3	1.5	1.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)