

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: P245892

Luminaire Tested: **LD8B10D010 ER8B10830 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245892
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 ER8B10830 8LBSW0B
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 838.0 lumens
Efficiency: N/A
Efficacy: 82.2 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

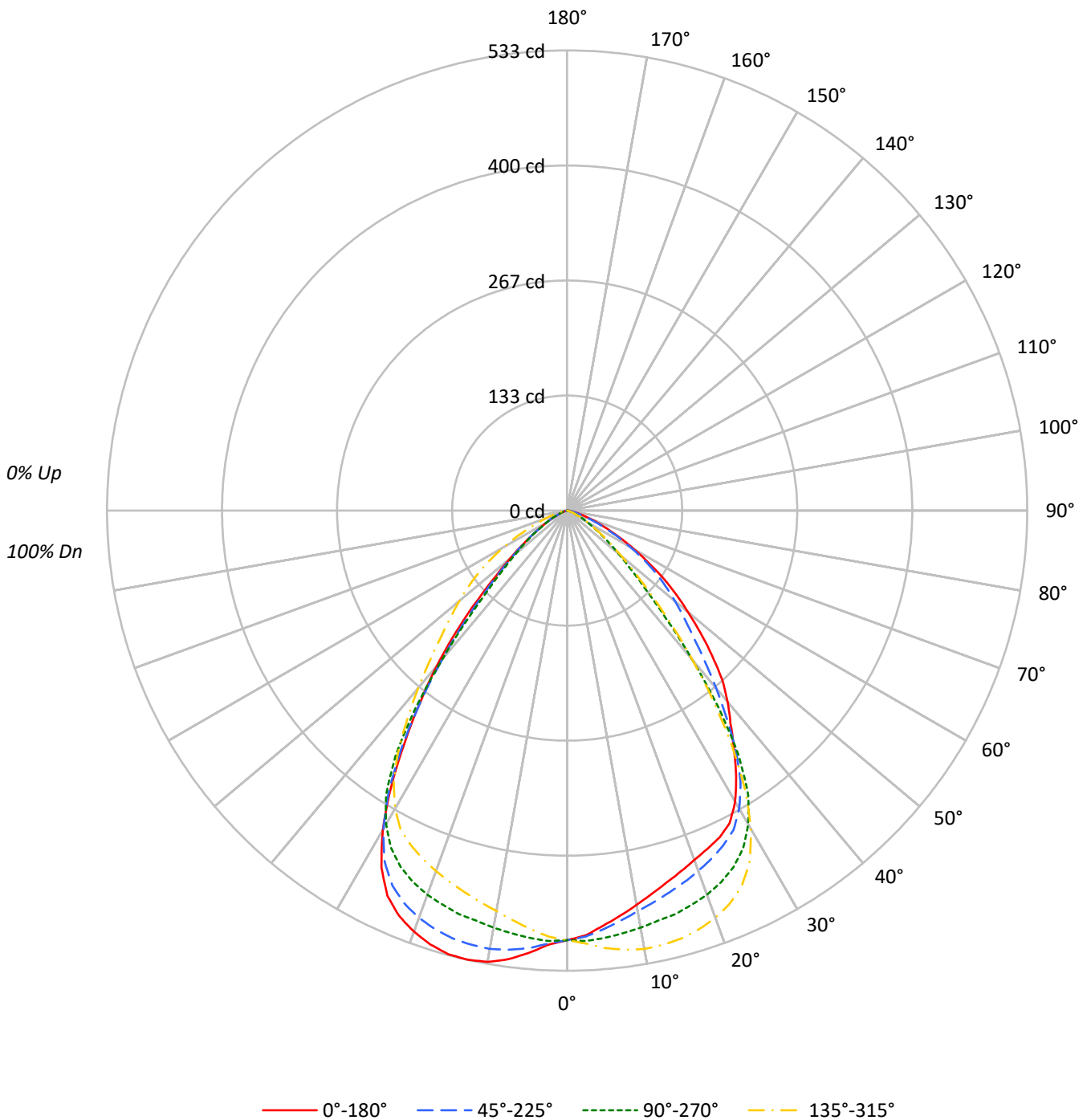
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	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°	15341	15341	15341	15341
5°	14932	15378	15926	15378
10°	14519	15355	16620	15355
15°	14232	15448	16984	15448
20°	14134	15535	17028	15535
25°	14208	15505	16753	15505
30°	13855	14937	15208	14937
35°	12675	13032	12362	13032
40°	11637	9065	9464	9065
45°	10340	5530	6397	5530
50°	8750	3694	4102	3694
55°	7247	2521	2667	2521
60°	5526	1677	1690	1677
65°	3918	1043	956	1043
70°	2822	703	631	703
75°	1799	346	286	346
80°	1243	266	213	266
85°	1132	0	71	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.4	5.7
10°-20°	137.1	16.4
20°-30°	207.6	24.8
30°-40°	208.1	24.8
40°-50°	130.7	15.6
50°-60°	69.6	8.3
60°-70°	28.6	3.4
70°-80°	7.6	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°	392.1	46.8
0°-40°	600.2	71.6
0°-60°	800.5	95.5
0°-90°	838.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	838.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	498	498	498	498	498	
5°	482	497	514	497	482	45
15°	446	484	532	484	446	126
25°	418	456	492	456	418	192
35°	337	346	328	346	337	211
45°	237	127	147	127	237	182
55°	135	47	50	47	135	120
65°	54	14	13	14	54	56
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°	497.5	497.5	497.5	497.5	497.5	497.5	497.5	497.5	497.5	497.5	497.5
2.5°	492.4	491.9	491.7	492.2	492.4	493.4	493.1	493.6	493.6	493.9	494.3
5°	482.4	482.2	482.4	482.4	483.4	484.4	484.1	484.9	485.3	486.6	487.0
7.5°	473.2	473.2	473.0	473.9	474.4	475.9	475.6	476.8	477.6	478.8	480.5
10°	463.7	463.7	464.0	464.7	464.9	467.1	467.1	468.8	469.8	471.0	473.2
12.5°	454.5	454.5	456.0	455.5	456.4	458.1	458.9	460.6	462.0	464.5	466.6
15°	445.8	445.8	446.2	447.5	448.2	450.4	451.6	453.5	455.2	457.7	460.8
17.5°	438.2	438.0	438.2	439.7	441.1	443.1	444.1	446.5	448.2	451.3	454.3
20°	430.7	431.2	431.2	432.4	433.4	435.8	436.8	439.4	441.4	444.3	447.7
22.5°	424.1	423.9	423.9	425.6	426.3	428.5	429.5	431.9	434.1	436.5	439.7
25°	417.6	417.1	418.1	418.3	418.8	421.2	421.9	423.6	425.8	428.0	431.2
27.5°	407.9	407.4	407.6	408.6	409.3	411.3	411.7	413.4	415.1	417.1	419.8
30°	389.1	388.7	388.4	390.1	390.9	392.3	393.0	396.0	396.4	398.6	400.6
32.5°	364.4	364.1	364.6	366.1	366.8	368.8	369.7	371.4	372.6	373.9	375.8
35°	336.7	336.2	336.7	338.1	338.1	339.8	340.6	341.3	341.1	341.3	340.8
37.5°	310.9	310.7	310.9	311.7	310.9	311.7	310.9	309.5	306.8	303.9	301.0
40°	289.1	289.3	287.9	288.8	286.2	285.7	283.0	279.4	274.0	268.2	259.9
42.5°	265.8	265.0	264.1	264.5	262.4	260.6	256.3	251.7	244.9	235.1	225.2
45°	237.1	236.8	236.4	236.1	234.7	233.0	229.3	224.0	216.4	206.5	194.6
47.5°	209.2	208.4	208.4	208.7	207.0	206.7	203.8	199.2	192.6	182.9	170.5
50°	182.4	182.2	182.7	183.6	182.4	181.9	180.0	176.8	171.0	162.8	151.1
52.5°	158.4	158.1	158.6	159.8	159.3	159.8	157.9	155.5	151.6	143.6	133.4
55°	134.8	134.8	134.8	136.3	136.3	136.3	135.3	133.9	130.2	124.4	114.9
57.5°	110.3	110.5	112.0	112.2	112.0	112.5	112.2	110.8	108.3	104.2	96.9
60°	89.6	89.6	90.4	91.1	90.8	91.1	91.1	90.4	87.9	84.5	78.7
62.5°	70.9	71.7	71.2	71.7	72.6	71.7	71.2	70.7	69.0	66.8	61.9
65°	53.7	54.2	54.2	54.4	53.9	54.2	53.2	52.5	51.5	49.1	45.9
67.5°	40.8	40.8	40.8	40.8	40.6	40.3	40.1	39.4	37.7	36.7	33.3
70°	31.3	29.9	29.9	29.9	29.9	30.1	29.4	28.4	27.9	26.2	23.8
72.5°	20.9	21.4	20.9	20.9	20.4	20.6	19.7	19.2	18.7	17.7	16.3
75°	15.1	13.8	14.3	14.6	13.8	14.3	13.4	12.4	12.4	11.7	10.9
77.5°	9.7	9.5	9.7	10.0	9.7	9.5	9.0	8.5	8.5	8.3	7.5
80°	7.0	6.8	6.8	6.8	6.6	6.8	6.3	6.3	5.8	5.6	5.1
82.5°	4.6	4.6	4.4	4.6	4.4	4.6	3.9	3.9	3.9	3.6	3.2
85°	3.2	2.7	2.7	2.9	2.4	2.9	2.7	2.4	2.2	2.2	1.9
87.5°	1.5	1.7	1.5	1.7	1.5	1.5	1.7	1.5	1.5	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°	497.5	497.5	497.5	497.5	497.5	497.5	497.5	497.5	497.5	497.5	497.5
2.5°	495.1	495.3	495.3	496.3	496.8	497.0	497.0	499.0	498.2	498.7	499.2
5°	488.0	489.5	490.0	490.0	492.6	493.6	494.6	496.8	497.0	498.5	500.2
7.5°	481.2	482.9	483.9	486.1	487.8	489.5	492.4	493.9	495.3	497.3	499.4
10°	474.7	476.6	478.5	480.2	482.9	485.1	487.0	490.4	492.2	494.8	497.7
12.5°	468.3	471.0	472.7	475.6	478.5	480.5	483.4	486.6	489.2	491.9	495.3
15°	462.8	465.9	467.9	471.0	474.2	476.8	480.0	483.9	485.8	489.0	492.2
17.5°	456.7	460.1	462.5	465.4	469.3	472.2	474.9	478.8	481.2	484.6	488.3
20°	450.4	453.8	456.7	459.6	463.5	466.4	469.6	473.4	476.1	479.5	482.4
22.5°	442.8	446.0	449.2	452.6	456.4	458.9	462.5	465.9	468.8	472.0	474.9
25°	433.1	437.0	439.4	442.6	445.8	448.4	452.3	455.7	458.1	461.1	463.7
27.5°	421.7	424.6	426.6	429.2	432.4	434.8	437.7	441.1	443.6	446.2	448.2
30°	402.3	404.9	406.6	408.6	411.7	413.9	416.4	419.5	421.2	423.2	424.9
32.5°	376.8	378.9	379.9	381.4	383.6	385.7	387.7	390.4	391.1	392.3	392.3
35°	339.8	340.3	340.1	340.6	341.5	342.8	344.5	346.2	347.1	347.1	346.4
37.5°	296.6	293.7	290.5	288.1	287.4	286.9	287.9	288.6	289.6	290.0	288.8
40°	251.7	245.1	238.1	231.7	227.4	225.4	224.7	225.2	225.2	226.9	226.9
42.5°	213.0	202.8	192.4	182.9	176.6	171.7	169.6	169.6	169.8	171.0	171.7
45°	181.0	168.1	155.9	145.5	136.8	130.4	127.5	126.8	126.6	127.0	128.7
47.5°	156.4	143.1	130.4	117.6	108.3	102.0	99.4	98.4	97.4	98.4	98.6
50°	137.3	123.4	110.0	97.2	87.4	81.9	78.5	77.0	76.8	76.8	77.2
52.5°	119.8	106.9	93.5	80.4	70.2	64.9	61.7	61.0	60.0	61.0	61.0
55°	103.2	90.4	77.2	64.9	56.4	50.8	47.9	46.9	46.4	47.1	47.1
57.5°	85.3	74.3	62.2	51.0	42.5	38.6	36.4	35.2	35.0	35.5	35.0
60°	70.0	60.7	50.3	40.1	33.5	29.4	27.7	27.2	26.7	27.2	27.2
62.5°	55.4	47.6	39.1	31.3	25.7	22.8	20.9	20.9	20.6	20.6	20.9
65°	41.1	35.0	28.9	22.3	18.0	15.8	14.3	14.3	14.1	14.3	14.1
67.5°	29.9	25.7	20.9	16.3	12.9	11.7	10.7	10.0	10.4	10.0	9.7
70°	21.9	18.5	15.1	12.4	10.0	8.7	8.0	7.8	7.3	7.3	7.3
72.5°	14.6	12.4	10.2	8.0	6.6	5.3	5.1	4.6	4.1	4.4	4.9
75°	9.7	8.3	7.3	5.8	4.4	4.4	2.9	2.9	2.4	2.9	2.2
77.5°	6.8	5.6	4.4	3.6	2.9	2.7	1.9	1.9	1.7	1.7	1.7
80°	4.9	4.1	3.2	2.7	1.9	1.9	1.7	1.5	1.2	1.2	1.5
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	1.5	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°	497.5	497.5	497.5	497.5	497.5	497.5	497.5	497.5	497.5	497.5	497.5
2.5°	500.4	500.2	500.7	500.7	502.1	501.9	502.6	502.6	502.1	502.4	503.3
5°	502.1	502.8	504.3	505.5	507.7	508.7	509.9	511.1	511.3	512.1	512.8
7.5°	502.1	504.5	506.2	508.4	511.3	513.0	515.7	517.9	518.9	520.1	521.5
10°	501.1	503.6	506.7	509.2	512.8	515.5	518.1	521.5	523.0	524.9	526.9
12.5°	499.2	501.9	505.3	508.4	512.6	515.0	518.4	521.5	523.7	526.4	528.6
15°	496.3	499.4	502.6	505.8	510.1	513.0	516.2	519.8	522.0	524.9	526.9
17.5°	491.7	495.1	498.0	500.9	505.0	508.4	511.3	514.7	516.9	519.4	522.0
20°	486.1	489.2	492.4	494.8	499.0	501.9	505.0	508.2	509.9	510.4	514.5
22.5°	479.0	481.2	483.6	487.5	490.0	492.6	495.6	498.5	500.2	502.8	504.3
25°	467.4	469.6	472.2	473.9	476.8	479.0	481.9	485.1	486.1	488.0	489.5
27.5°	451.1	452.3	453.5	455.0	456.7	457.9	459.6	461.1	462.0	463.0	464.0
30°	425.3	425.3	425.3	424.4	425.1	425.8	426.1	425.8	425.8	425.6	425.6
32.5°	391.3	389.4	387.2	385.3	384.5	383.6	383.1	382.3	381.1	380.4	380.6
35°	345.4	341.1	338.4	336.0	334.0	332.6	331.8	331.1	330.9	329.9	328.9
37.5°	288.1	284.9	283.0	281.5	279.8	278.4	278.6	278.9	279.6	279.1	279.4
40°	227.4	226.6	227.4	225.7	225.2	225.7	226.9	228.6	229.6	230.5	232.2
42.5°	173.0	174.2	175.9	175.9	176.6	177.6	179.0	181.7	183.2	184.9	186.8
45°	130.2	131.7	133.9	134.6	135.1	136.3	138.0	140.2	141.1	142.6	144.3
47.5°	100.3	101.3	102.5	103.7	104.9	105.4	107.1	107.1	108.3	109.3	109.8
50°	78.2	79.2	80.2	80.9	81.4	82.1	82.6	83.3	83.6	84.0	84.3
52.5°	61.2	62.4	62.4	62.9	63.6	64.4	64.1	64.4	64.6	64.6	65.3
55°	47.9	47.9	48.6	48.6	49.1	48.8	49.1	49.1	49.1	49.1	49.3
57.5°	35.7	36.0	36.7	36.2	36.0	36.4	36.0	36.4	36.2	36.7	36.0
60°	27.4	27.4	27.7	27.7	27.9	27.9	27.9	27.7	27.7	27.4	27.4
62.5°	20.6	20.9	21.1	20.9	20.9	20.9	20.6	20.6	20.4	20.2	20.2
65°	13.8	13.6	14.1	13.6	13.8	13.8	13.6	13.8	13.1	13.4	13.1
67.5°	10.0	9.7	9.5	9.7	9.5	9.2	9.2	9.5	9.7	9.0	9.0
70°	6.6	6.8	6.6	6.8	7.0	7.0	6.8	6.6	6.8	6.3	6.6
72.5°	4.1	4.1	4.1	4.1	4.1	4.4	4.4	4.4	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	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.2	1.5	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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CATALOG NUMBER: LD8B10D010 ER8B10830 8LBSW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	497.5	497.5	497.5	497.5	497.5	497.5	497.5	497.5	497.5	497.5	497.5
2.5°	503.1	502.8	503.1	503.3	503.1	502.8	503.1	503.3	502.4	502.1	502.6
5°	513.8	513.8	514.3	514.5	514.3	513.8	513.8	512.8	512.1	511.3	511.1
7.5°	523.0	523.5	524.0	524.2	524.0	523.5	523.0	521.5	520.1	518.9	517.9
10°	528.6	529.3	530.3	530.8	530.3	529.3	528.6	526.9	524.9	523.0	521.5
12.5°	531.0	531.7	533.0	532.7	533.0	531.7	531.0	528.6	526.4	523.7	521.5
15°	529.3	530.3	531.5	532.0	531.5	530.3	529.3	526.9	524.9	522.0	519.8
17.5°	524.0	525.4	526.2	526.9	526.2	525.4	524.0	522.0	519.4	516.9	514.7
20°	516.7	517.7	518.6	518.9	518.6	517.7	516.7	514.5	510.4	509.9	508.2
22.5°	506.2	507.0	509.2	508.4	509.2	507.0	506.2	504.3	502.8	500.2	498.5
25°	491.2	491.9	492.2	492.4	492.2	491.9	491.2	489.5	488.0	486.1	485.1
27.5°	465.2	465.2	465.7	465.9	465.7	465.2	465.2	464.0	463.0	462.0	461.1
30°	425.8	425.8	425.8	427.1	425.8	425.8	425.8	425.6	425.6	425.8	425.8
32.5°	380.4	379.9	379.4	379.9	379.4	379.9	380.4	380.6	380.4	381.1	382.3
35°	328.9	328.7	329.4	328.4	329.4	328.7	328.9	328.9	329.9	330.9	331.1
37.5°	279.6	279.1	280.1	279.1	280.1	279.1	279.6	279.4	279.1	279.6	278.9
40°	232.7	233.2	233.2	235.1	233.2	233.2	232.7	232.2	230.5	229.6	228.6
42.5°	187.8	189.2	188.7	190.2	188.7	189.2	187.8	186.8	184.9	183.2	181.7
45°	145.3	146.2	146.2	146.7	146.2	146.2	145.3	144.3	142.6	141.1	140.2
47.5°	111.5	111.5	111.5	111.7	111.5	111.5	111.5	109.8	109.3	108.3	107.1
50°	84.8	85.0	85.3	85.5	85.3	85.0	84.8	84.3	84.0	83.6	83.3
52.5°	65.1	65.3	64.9	65.3	64.9	65.3	65.1	65.3	64.6	64.6	64.4
55°	49.3	49.1	49.3	49.6	49.3	49.1	49.3	49.3	49.1	49.1	49.1
57.5°	36.2	35.7	35.7	35.7	35.7	35.7	36.2	36.0	36.7	36.2	36.4
60°	27.0	27.2	27.2	27.4	27.2	27.2	27.0	27.4	27.4	27.7	27.7
62.5°	19.9	20.6	20.2	20.6	20.2	20.6	19.9	20.2	20.2	20.4	20.6
65°	12.9	12.9	12.9	13.1	12.9	12.9	12.9	13.1	13.4	13.1	13.8
67.5°	8.7	9.0	9.5	9.2	9.5	9.0	8.7	9.0	9.0	9.7	9.5
70°	7.0	6.3	6.3	7.0	6.3	6.3	7.0	6.6	6.3	6.8	6.6
72.5°	4.1	3.6	4.1	4.1	4.1	3.6	4.1	3.6	3.9	3.9	4.4
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°	1.5	1.2	1.7	1.7	1.7	1.2	1.5	1.2	1.5	1.2	1.5
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: P245892

CATALOG NUMBER: LD8B10D010 ER8B10830 8LBSW0B

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	497.5	497.5	497.5	497.5	497.5	497.5	497.5	497.5	497.5	497.5	497.5
2.5°	502.6	501.9	502.1	500.7	500.7	500.2	500.4	499.2	498.7	498.2	499.0
5°	509.9	508.7	507.7	505.5	504.3	502.8	502.1	500.2	498.5	497.0	496.8
7.5°	515.7	513.0	511.3	508.4	506.2	504.5	502.1	499.4	497.3	495.3	493.9
10°	518.1	515.5	512.8	509.2	506.7	503.6	501.1	497.7	494.8	492.2	490.4
12.5°	518.4	515.0	512.6	508.4	505.3	501.9	499.2	495.3	491.9	489.2	486.6
15°	516.2	513.0	510.1	505.8	502.6	499.4	496.3	492.2	489.0	485.8	483.9
17.5°	511.3	508.4	505.0	500.9	498.0	495.1	491.7	488.3	484.6	481.2	478.8
20°	505.0	501.9	499.0	494.8	492.4	489.2	486.1	482.4	479.5	476.1	473.4
22.5°	495.6	492.6	490.0	487.5	483.6	481.2	479.0	474.9	472.0	468.8	465.9
25°	481.9	479.0	476.8	473.9	472.2	469.6	467.4	463.7	461.1	458.1	455.7
27.5°	459.6	457.9	456.7	455.0	453.5	452.3	451.1	448.2	446.2	443.6	441.1
30°	426.1	425.8	425.1	424.4	425.3	425.3	425.3	424.9	423.2	421.2	419.5
32.5°	383.1	383.6	384.5	385.3	387.2	389.4	391.3	392.3	392.3	391.1	390.4
35°	331.8	332.6	334.0	336.0	338.4	341.1	345.4	346.4	347.1	347.1	346.2
37.5°	278.6	278.4	279.8	281.5	283.0	284.9	288.1	288.8	290.0	289.6	288.6
40°	226.9	225.7	225.2	225.7	227.4	226.6	227.4	226.9	226.9	225.2	225.2
42.5°	179.0	177.6	176.6	175.9	175.9	174.2	173.0	171.7	171.0	169.8	169.6
45°	138.0	136.3	135.1	134.6	133.9	131.7	130.2	128.7	127.0	126.6	126.8
47.5°	107.1	105.4	104.9	103.7	102.5	101.3	100.3	98.6	98.4	97.4	98.4
50°	82.6	82.1	81.4	80.9	80.2	79.2	78.2	77.2	76.8	76.8	77.0
52.5°	64.1	64.4	63.6	62.9	62.4	62.4	61.2	61.0	61.0	60.0	61.0
55°	49.1	48.8	49.1	48.6	48.6	47.9	47.9	47.1	47.1	46.4	46.9
57.5°	36.0	36.4	36.0	36.2	36.7	36.0	35.7	35.0	35.5	35.0	35.2
60°	27.9	27.9	27.9	27.7	27.7	27.4	27.4	27.2	27.2	26.7	27.2
62.5°	20.6	20.9	20.9	20.9	21.1	20.9	20.6	20.9	20.6	20.6	20.9
65°	13.6	13.8	13.8	13.6	14.1	13.6	13.8	14.1	14.3	14.1	14.3
67.5°	9.2	9.2	9.5	9.7	9.5	9.7	10.0	9.7	10.0	10.4	10.0
70°	6.8	7.0	7.0	6.8	6.6	6.8	6.6	7.3	7.3	7.3	7.8
72.5°	4.4	4.4	4.1	4.1	4.1	4.1	4.1	4.9	4.4	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°	1.5	1.5	1.5	1.5	1.5	1.5	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	1.5	1.2	1.2	1.5
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: P245892

CATALOG NUMBER: LD8B10D010 ER8B10830 8LBSW0B

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	497.5	497.5	497.5	497.5	497.5	497.5	497.5	497.5	497.5	497.5	497.5
2.5°	497.0	497.0	496.8	496.3	495.3	495.3	495.1	494.3	493.9	493.6	493.6
5°	494.6	493.6	492.6	490.0	490.0	489.5	488.0	487.0	486.6	485.3	484.9
7.5°	492.4	489.5	487.8	486.1	483.9	482.9	481.2	480.5	478.8	477.6	476.8
10°	487.0	485.1	482.9	480.2	478.5	476.6	474.7	473.2	471.0	469.8	468.8
12.5°	483.4	480.5	478.5	475.6	472.7	471.0	468.3	466.6	464.5	462.0	460.6
15°	480.0	476.8	474.2	471.0	467.9	465.9	462.8	460.8	457.7	455.2	453.5
17.5°	474.9	472.2	469.3	465.4	462.5	460.1	456.7	454.3	451.3	448.2	446.5
20°	469.6	466.4	463.5	459.6	456.7	453.8	450.4	447.7	444.3	441.4	439.4
22.5°	462.5	458.9	456.4	452.6	449.2	446.0	442.8	439.7	436.5	434.1	431.9
25°	452.3	448.4	445.8	442.6	439.4	437.0	433.1	431.2	428.0	425.8	423.6
27.5°	437.7	434.8	432.4	429.2	426.6	424.6	421.7	419.8	417.1	415.1	413.4
30°	416.4	413.9	411.7	408.6	406.6	404.9	402.3	400.6	398.6	396.4	396.0
32.5°	387.7	385.7	383.6	381.4	379.9	378.9	376.8	375.8	373.9	372.6	371.4
35°	344.5	342.8	341.5	340.6	340.1	340.3	339.8	340.8	341.3	341.1	341.3
37.5°	287.9	286.9	287.4	288.1	290.5	293.7	296.6	301.0	303.9	306.8	309.5
40°	224.7	225.4	227.4	231.7	238.1	245.1	251.7	259.9	268.2	274.0	279.4
42.5°	169.6	171.7	176.6	182.9	192.4	202.8	213.0	225.2	235.1	244.9	251.7
45°	127.5	130.4	136.8	145.5	155.9	168.1	181.0	194.6	206.5	216.4	224.0
47.5°	99.4	102.0	108.3	117.6	130.4	143.1	156.4	170.5	182.9	192.6	199.2
50°	78.5	81.9	87.4	97.2	110.0	123.4	137.3	151.1	162.8	171.0	176.8
52.5°	61.7	64.9	70.2	80.4	93.5	106.9	119.8	133.4	143.6	151.6	155.5
55°	47.9	50.8	56.4	64.9	77.2	90.4	103.2	114.9	124.4	130.2	133.9
57.5°	36.4	38.6	42.5	51.0	62.2	74.3	85.3	96.9	104.2	108.3	110.8
60°	27.7	29.4	33.5	40.1	50.3	60.7	70.0	78.7	84.5	87.9	90.4
62.5°	20.9	22.8	25.7	31.3	39.1	47.6	55.4	61.9	66.8	69.0	70.7
65°	14.3	15.8	18.0	22.3	28.9	35.0	41.1	45.9	49.1	51.5	52.5
67.5°	10.7	11.7	12.9	16.3	20.9	25.7	29.9	33.3	36.7	37.7	39.4
70°	8.0	8.7	10.0	12.4	15.1	18.5	21.9	23.8	26.2	27.9	28.4
72.5°	5.1	5.3	6.6	8.0	10.2	12.4	14.6	16.3	17.7	18.7	19.2
75°	2.9	4.4	4.4	5.8	7.3	8.3	9.7	10.9	11.7	12.4	12.4
77.5°	1.9	2.7	2.9	3.6	4.4	5.6	6.8	7.5	8.3	8.5	8.5
80°	1.7	1.9	1.9	2.7	3.2	4.1	4.9	5.1	5.6	5.8	6.3
82.5°	0.7	1.0	1.2	1.9	2.2	2.2	2.9	3.2	3.6	3.9	3.9
85°	0.2	0.5	0.5	0.7	1.2	1.5	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	1.5	1.5
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: P245892

CATALOG NUMBER: LD8B10D010 ER8B10830 8LBSW0B

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	497.5	497.5	497.5	497.5	497.5	497.5	497.5
2.5°	493.1	493.4	492.4	492.2	491.7	491.9	492.4
5°	484.1	484.4	483.4	482.4	482.4	482.2	482.4
7.5°	475.6	475.9	474.4	473.9	473.0	473.2	473.2
10°	467.1	467.1	464.9	464.7	464.0	463.7	463.7
12.5°	458.9	458.1	456.4	455.5	456.0	454.5	454.5
15°	451.6	450.4	448.2	447.5	446.2	445.8	445.8
17.5°	444.1	443.1	441.1	439.7	438.2	438.0	438.2
20°	436.8	435.8	433.4	432.4	431.2	431.2	430.7
22.5°	429.5	428.5	426.3	425.6	423.9	423.9	424.1
25°	421.9	421.2	418.8	418.3	418.1	417.1	417.6
27.5°	411.7	411.3	409.3	408.6	407.6	407.4	407.9
30°	393.0	392.3	390.9	390.1	388.4	388.7	389.1
32.5°	369.7	368.8	366.8	366.1	364.6	364.1	364.4
35°	340.6	339.8	338.1	338.1	336.7	336.2	336.7
37.5°	310.9	311.7	310.9	311.7	310.9	310.7	310.9
40°	283.0	285.7	286.2	288.8	287.9	289.3	289.1
42.5°	256.3	260.6	262.4	264.5	264.1	265.0	265.8
45°	229.3	233.0	234.7	236.1	236.4	236.8	237.1
47.5°	203.8	206.7	207.0	208.7	208.4	208.4	209.2
50°	180.0	181.9	182.4	183.6	182.7	182.2	182.4
52.5°	157.9	159.8	159.3	159.8	158.6	158.1	158.4
55°	135.3	136.3	136.3	136.3	134.8	134.8	134.8
57.5°	112.2	112.5	112.0	112.2	112.0	110.5	110.3
60°	91.1	91.1	90.8	91.1	90.4	89.6	89.6
62.5°	71.2	71.7	72.6	71.7	71.2	71.7	70.9
65°	53.2	54.2	53.9	54.4	54.2	54.2	53.7
67.5°	40.1	40.3	40.6	40.8	40.8	40.8	40.8
70°	29.4	30.1	29.9	29.9	29.9	29.9	31.3
72.5°	19.7	20.6	20.4	20.9	20.9	21.4	20.9
75°	13.4	14.3	13.8	14.6	14.3	13.8	15.1
77.5°	9.0	9.5	9.7	10.0	9.7	9.5	9.7
80°	6.3	6.8	6.6	6.8	6.8	6.8	7.0
82.5°	3.9	4.6	4.4	4.6	4.4	4.6	4.6
85°	2.7	2.9	2.4	2.9	2.7	2.7	3.2
87.5°	1.7	1.5	1.5	1.7	1.5	1.7	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)