

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: P244524

Luminaire Tested: **LD8B10D010 ER8B10830 8LBSW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244524
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 8LBSW0H
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1096.0 lumens
Efficiency: N/A
Efficacy: 107.5 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

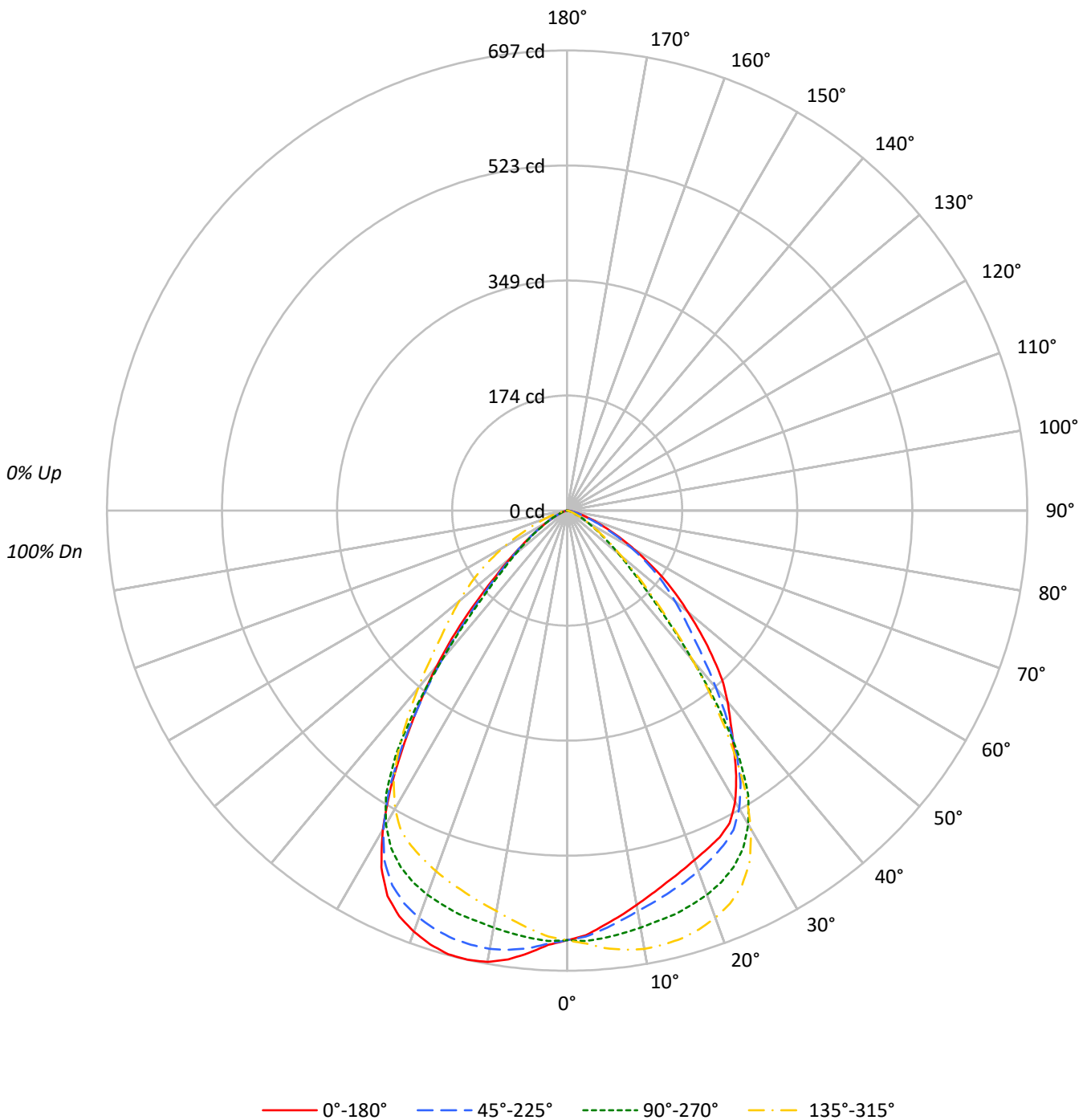
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	20065	20065	20065	20065
5°	19532	20111	20829	20111
10°	18991	20084	21737	20084
15°	18612	20205	22213	20205
20°	18485	20319	22268	20319
25°	18581	20278	21912	20278
30°	18124	19537	19886	19537
35°	16575	17042	16168	17042
40°	15220	11855	12378	11855
45°	13523	7230	8369	7230
50°	11446	4831	5363	4831
55°	9478	3296	3484	3296
60°	7228	2196	2214	2196
65°	5122	1364	1255	1364
70°	3697	920	829	920
75°	2347	453	381	453
80°	1634	337	284	337
85°	1451	0	106	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.9	5.7
10°-20°	179.3	16.4
20°-30°	271.6	24.8
30°-40°	272.2	24.8
40°-50°	170.9	15.6
50°-60°	91.1	8.3
60°-70°	37.4	3.4
70°-80°	9.9	0.9
80°-90°	1.7	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°	512.8	46.8
0°-40°	785.0	71.6
0°-60°	1047.0	95.5
0°-90°	1096.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1096.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	651	651	651	651	651	
5°	631	650	673	650	631	60
15°	583	633	696	633	583	165
25°	546	596	644	596	546	250
35°	440	453	430	453	440	276
45°	310	166	192	166	310	238
55°	176	61	65	61	176	157
65°	70	19	17	19	70	73
75°	20	4	3	4	20	22
85°	4	0	0	0	4	5
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°	650.7	650.7	650.7	650.7	650.7	650.7	650.7	650.7	650.7	650.7	650.7
2.5°	644.0	643.4	643.0	643.7	644.0	645.3	644.9	645.6	645.6	645.9	646.5
5°	631.0	630.6	631.0	631.0	632.2	633.5	633.2	634.1	634.8	636.4	637.0
7.5°	618.9	618.9	618.6	619.8	620.5	622.4	622.1	623.7	624.6	626.2	628.4
10°	606.5	606.5	606.8	607.8	608.1	610.9	610.9	613.2	614.4	616.0	618.9
12.5°	594.4	594.4	596.3	595.7	597.0	599.2	600.1	602.4	604.3	607.5	610.3
15°	583.0	583.0	583.6	585.2	586.2	589.0	590.6	593.2	595.4	598.6	602.7
17.5°	573.1	572.8	573.1	575.0	577.0	579.5	580.8	583.9	586.2	590.3	594.1
20°	563.3	563.9	563.9	565.5	566.8	570.0	571.2	574.7	577.3	581.1	585.5
22.5°	554.7	554.4	554.4	556.6	557.6	560.4	561.7	564.9	567.7	570.9	575.0
25°	546.1	545.5	546.8	547.1	547.7	550.9	551.9	554.1	556.9	559.8	563.9
27.5°	533.4	532.8	533.1	534.4	535.3	537.9	538.5	540.7	543.0	545.5	549.0
30°	509.0	508.3	508.0	510.2	511.2	513.1	514.0	517.9	518.5	521.4	523.9
32.5°	476.6	476.2	476.9	478.8	479.7	482.3	483.5	485.8	487.4	488.9	491.5
35°	440.3	439.7	440.3	442.3	442.3	444.5	445.4	446.4	446.1	446.4	445.7
37.5°	406.7	406.3	406.7	407.6	406.7	407.6	406.7	404.8	401.3	397.5	393.6
40°	378.1	378.4	376.5	377.8	374.3	373.6	370.1	365.4	358.4	350.8	340.0
42.5°	347.6	346.6	345.4	346.0	343.1	340.9	335.2	329.1	320.2	307.5	294.5
45°	310.1	309.8	309.1	308.8	306.9	304.7	299.9	292.9	283.1	270.1	254.5
47.5°	273.5	272.6	272.6	272.9	270.7	270.4	266.5	260.5	251.9	239.2	223.0
50°	238.6	238.3	238.9	240.2	238.6	238.0	235.4	231.3	223.7	212.9	197.6
52.5°	207.1	206.8	207.5	209.0	208.4	209.0	206.5	203.3	198.2	187.8	174.4
55°	176.3	176.3	176.3	178.2	178.2	178.2	177.0	175.1	170.3	162.7	150.3
57.5°	144.2	144.6	146.5	146.8	146.5	147.1	146.8	144.9	141.7	136.3	126.8
60°	117.2	117.2	118.2	119.1	118.8	119.1	119.1	118.2	115.0	110.6	102.9
62.5°	92.8	93.7	93.1	93.7	95.0	93.7	93.1	92.5	90.2	87.4	81.0
65°	70.2	70.9	70.9	71.2	70.5	70.9	69.6	68.6	67.4	64.2	60.0
67.5°	53.4	53.4	53.4	53.4	53.1	52.7	52.4	51.5	49.2	48.0	43.5
70°	41.0	39.1	39.1	39.1	39.1	39.4	38.4	37.2	36.5	34.3	31.1
72.5°	27.3	28.0	27.3	27.3	26.7	27.0	25.7	25.1	24.5	23.2	21.3
75°	19.7	18.1	18.7	19.1	18.1	18.7	17.5	16.2	16.2	15.2	14.3
77.5°	12.7	12.4	12.7	13.0	12.7	12.4	11.8	11.1	11.1	10.8	9.8
80°	9.2	8.9	8.9	8.9	8.6	8.9	8.3	8.3	7.6	7.3	6.7
82.5°	6.0	6.0	5.7	6.0	5.7	6.0	5.1	5.1	5.1	4.8	4.1
85°	4.1	3.5	3.5	3.8	3.2	3.8	3.5	3.2	2.9	2.9	2.5
87.5°	1.9	2.2	1.9	2.2	1.9	1.9	2.2	1.9	1.9	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	650.7	650.7	650.7	650.7	650.7	650.7	650.7	650.7	650.7	650.7	650.7
2.5°	647.5	647.8	647.8	649.1	649.7	650.0	650.0	652.6	651.6	652.3	652.9
5°	638.3	640.2	640.8	640.8	644.3	645.6	646.8	649.7	650.0	651.9	654.2
7.5°	629.4	631.6	632.9	635.7	637.9	640.2	644.0	645.9	647.8	650.3	653.2
10°	620.8	623.3	625.9	628.1	631.6	634.5	637.0	641.4	643.7	647.2	651.0
12.5°	612.5	616.0	618.3	622.1	625.9	628.4	632.2	636.4	639.9	643.4	647.8
15°	605.2	609.4	611.9	616.0	620.2	623.7	627.8	632.9	635.4	639.5	643.7
17.5°	597.3	601.7	604.9	608.7	613.8	617.6	621.1	626.2	629.4	633.8	638.6
20°	589.0	593.5	597.3	601.1	606.2	610.0	614.1	619.2	622.7	627.1	631.0
22.5°	579.2	583.3	587.4	591.9	597.0	600.1	604.9	609.4	613.2	617.3	621.1
25°	566.5	571.6	574.7	578.9	583.0	586.5	591.6	596.0	599.2	603.0	606.5
27.5°	551.5	555.4	557.9	561.4	565.5	568.7	572.5	577.0	580.1	583.6	586.2
30°	526.1	529.6	531.8	534.4	538.5	541.4	544.6	548.7	550.9	553.4	555.7
32.5°	492.8	495.6	496.9	498.8	501.7	504.5	507.1	510.6	511.5	513.1	513.1
35°	444.5	445.1	444.8	445.4	446.7	448.3	450.5	452.7	454.0	454.0	453.1
37.5°	387.9	384.1	380.0	376.8	375.8	375.2	376.5	377.4	378.7	379.3	377.8
40°	329.1	320.6	311.4	303.1	297.4	294.8	293.9	294.5	294.5	296.7	296.7
42.5°	278.6	265.3	251.6	239.2	231.0	224.6	221.8	221.8	222.1	223.7	224.6
45°	236.7	219.9	204.0	190.3	178.9	170.6	166.8	165.8	165.5	166.2	168.4
47.5°	204.6	187.1	170.6	153.8	141.7	133.4	129.9	128.7	127.4	128.7	129.0
50°	179.5	161.4	143.9	127.1	114.4	107.1	102.6	100.7	100.4	100.4	101.0
52.5°	156.6	139.8	122.3	105.2	91.8	84.8	80.7	79.7	78.5	79.7	79.7
55°	135.0	118.2	101.0	84.8	73.7	66.4	62.6	61.3	60.7	61.6	61.6
57.5°	111.5	97.2	81.3	66.7	55.6	50.5	47.7	46.1	45.7	46.4	45.7
60°	91.5	79.4	65.8	52.4	43.8	38.4	36.2	35.6	34.9	35.6	35.6
62.5°	72.4	62.3	51.1	41.0	33.7	29.9	27.3	27.3	27.0	27.0	27.3
65°	53.7	45.7	37.8	29.2	23.5	20.6	18.7	18.7	18.4	18.7	18.4
67.5°	39.1	33.7	27.3	21.3	16.8	15.2	14.0	13.0	13.7	13.0	12.7
70°	28.6	24.1	19.7	16.2	13.0	11.4	10.5	10.2	9.5	9.5	9.5
72.5°	19.1	16.2	13.3	10.5	8.6	7.0	6.7	6.0	5.4	5.7	6.4
75°	12.7	10.8	9.5	7.6	5.7	5.7	3.8	3.8	3.2	3.8	2.9
77.5°	8.9	7.3	5.7	4.8	3.8	3.5	2.5	2.5	2.2	2.2	2.2
80°	6.4	5.4	4.1	3.5	2.5	2.5	2.2	1.9	1.6	1.6	1.9
82.5°	3.8	2.9	2.9	2.5	1.6	1.3	1.0	1.3	0.6	0.6	0.6
85°	2.2	1.9	1.6	1.0	0.6	0.6	0.3	0.0	0.3	0.3	0.0
87.5°	1.3	0.6	0.6	0.3	0.0	0.3	0.3	0.0	0.0	0.0	0.6
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°	650.7	650.7	650.7	650.7	650.7	650.7	650.7	650.7	650.7	650.7	650.7
2.5°	654.5	654.2	654.8	654.8	656.7	656.4	657.3	657.3	656.7	657.0	658.3
5°	656.7	657.7	659.6	661.1	664.0	665.3	666.9	668.5	668.8	669.7	670.7
7.5°	656.7	659.9	662.1	665.0	668.8	671.0	674.5	677.4	678.6	680.2	682.1
10°	655.4	658.6	662.7	665.9	670.7	674.2	677.7	682.1	684.0	686.6	689.1
12.5°	652.9	656.4	660.8	665.0	670.4	673.5	678.0	682.1	685.0	688.5	691.3
15°	649.1	653.2	657.3	661.5	667.2	671.0	675.1	679.9	682.8	686.6	689.1
17.5°	643.0	647.5	651.3	655.1	660.5	665.0	668.8	673.2	676.1	679.3	682.8
20°	635.7	639.9	644.0	647.2	652.6	656.4	660.5	664.6	666.9	667.5	672.9
22.5°	626.5	629.4	632.5	637.6	640.8	644.3	648.1	651.9	654.2	657.7	659.6
25°	611.3	614.1	617.6	619.8	623.7	626.5	630.3	634.5	635.7	638.3	640.2
27.5°	590.0	591.6	593.2	595.1	597.3	598.9	601.1	603.0	604.3	605.5	606.8
30°	556.3	556.3	556.3	555.0	556.0	556.9	557.3	556.9	556.9	556.6	556.6
32.5°	511.8	509.3	506.4	503.9	502.9	501.7	501.0	500.1	498.5	497.5	497.8
35°	451.8	446.1	442.6	439.4	436.9	434.9	434.0	433.0	432.7	431.5	430.2
37.5°	376.8	372.7	370.1	368.2	366.0	364.1	364.4	364.7	365.7	365.0	365.4
40°	297.4	296.4	297.4	295.1	294.5	295.1	296.7	299.0	300.2	301.5	303.7
42.5°	226.2	227.8	230.0	230.0	231.0	232.2	234.1	237.6	239.5	241.8	244.3
45°	170.3	172.2	175.1	176.0	176.6	178.2	180.5	183.3	184.6	186.5	188.7
47.5°	131.2	132.5	134.1	135.7	137.2	137.9	140.1	140.1	141.7	143.0	143.6
50°	102.3	103.6	104.8	105.8	106.4	107.4	108.0	109.0	109.3	109.9	110.2
52.5°	80.1	81.7	81.7	82.3	83.2	84.2	83.9	84.2	84.5	84.5	85.5
55°	62.6	62.6	63.5	63.5	64.2	63.9	64.2	64.2	64.2	64.2	64.5
57.5°	46.7	47.0	48.0	47.3	47.0	47.7	47.0	47.7	47.3	48.0	47.0
60°	35.9	35.9	36.2	36.2	36.5	36.5	36.5	36.2	36.2	35.9	35.9
62.5°	27.0	27.3	27.6	27.3	27.3	27.3	27.0	27.0	26.7	26.4	26.4
65°	18.1	17.8	18.4	17.8	18.1	18.1	17.8	18.1	17.2	17.5	17.2
67.5°	13.0	12.7	12.4	12.7	12.4	12.1	12.1	12.4	12.7	11.8	11.8
70°	8.6	8.9	8.6	8.9	9.2	9.2	8.9	8.6	8.9	8.3	8.6
72.5°	5.4	5.4	5.4	5.4	5.4	5.7	5.7	5.7	5.1	5.1	4.8
75°	2.5	3.5	2.9	2.5	3.5	3.5	3.2	3.2	2.9	2.9	2.9
77.5°	2.5	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.6	1.9	1.6
80°	1.3	1.3	1.3	1.0	1.3	1.3	1.6	1.3	1.3	1.0	1.6
82.5°	0.6	0.6	0.6	0.0	0.3	0.6	0.6	0.3	0.6	0.6	0.3
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 8LBSW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	650.7	650.7	650.7	650.7	650.7	650.7	650.7	650.7	650.7	650.7	650.7
2.5°	658.0	657.7	658.0	658.3	658.0	657.7	658.0	658.3	657.0	656.7	657.3
5°	671.9	671.9	672.6	672.9	672.6	671.9	671.9	670.7	669.7	668.8	668.5
7.5°	684.0	684.7	685.3	685.6	685.3	684.7	684.0	682.1	680.2	678.6	677.4
10°	691.3	692.3	693.6	694.2	693.6	692.3	691.3	689.1	686.6	684.0	682.1
12.5°	694.5	695.5	697.0	696.7	697.0	695.5	694.5	691.3	688.5	685.0	682.1
15°	692.3	693.6	695.1	695.8	695.1	693.6	692.3	689.1	686.6	682.8	679.9
17.5°	685.3	687.2	688.2	689.1	688.2	687.2	685.3	682.8	679.3	676.1	673.2
20°	675.8	677.0	678.3	678.6	678.3	677.0	675.8	672.9	667.5	666.9	664.6
22.5°	662.1	663.1	665.9	665.0	665.9	663.1	662.1	659.6	657.7	654.2	651.9
25°	642.4	643.4	643.7	644.0	643.7	643.4	642.4	640.2	638.3	635.7	634.5
27.5°	608.4	608.4	609.0	609.4	609.0	608.4	608.4	606.8	605.5	604.3	603.0
30°	556.9	556.9	556.9	558.5	556.9	556.9	556.9	556.6	556.6	556.9	556.9
32.5°	497.5	496.9	496.3	496.9	496.3	496.9	497.5	497.8	497.5	498.5	500.1
35°	430.2	429.9	430.8	429.5	430.8	429.9	430.2	430.2	431.5	432.7	433.0
37.5°	365.7	365.0	366.3	365.0	366.3	365.0	365.7	365.4	365.0	365.7	364.7
40°	304.4	305.0	305.0	307.5	305.0	305.0	304.4	303.7	301.5	300.2	299.0
42.5°	245.6	247.5	246.9	248.8	246.9	247.5	245.6	244.3	241.8	239.5	237.6
45°	190.0	191.3	191.3	191.9	191.3	191.3	190.0	188.7	186.5	184.6	183.3
47.5°	145.8	145.8	145.8	146.1	145.8	145.8	145.8	143.6	143.0	141.7	140.1
50°	110.9	111.2	111.5	111.8	111.5	111.2	110.9	110.2	109.9	109.3	109.0
52.5°	85.1	85.5	84.8	85.5	84.8	85.5	85.1	85.5	84.5	84.5	84.2
55°	64.5	64.2	64.5	64.8	64.5	64.2	64.5	64.5	64.2	64.2	64.2
57.5°	47.3	46.7	46.7	46.7	46.7	46.7	47.3	47.0	48.0	47.3	47.7
60°	35.3	35.6	35.6	35.9	35.6	35.6	35.3	35.9	35.9	36.2	36.2
62.5°	26.0	27.0	26.4	27.0	26.4	27.0	26.0	26.4	26.4	26.7	27.0
65°	16.8	16.8	16.8	17.2	16.8	16.8	16.8	17.2	17.5	17.2	18.1
67.5°	11.4	11.8	12.4	12.1	12.4	11.8	11.4	11.8	11.8	12.7	12.4
70°	9.2	8.3	8.3	9.2	8.3	8.3	9.2	8.6	8.3	8.9	8.6
72.5°	5.4	4.8	5.4	5.4	5.4	4.8	5.4	4.8	5.1	5.1	5.7
75°	2.9	2.5	2.2	3.2	2.2	2.5	2.9	2.9	2.9	2.9	3.2
77.5°	1.9	1.6	2.2	2.2	2.2	1.6	1.9	1.6	1.9	1.6	1.9
80°	1.0	1.3	1.0	1.6	1.0	1.3	1.0	1.6	1.0	1.3	1.3
82.5°	0.3	0.6	0.6	0.6	0.6	0.6	0.3	0.3	0.6	0.6	0.3
85°	0.0	0.6	0.3	0.3	0.3	0.6	0.0	0.0	0.0	0.0	0.0
87.5°	0.3	0.0	0.0	0.3	0.0	0.0	0.3	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: P244524

CATALOG NUMBER: LD8B10D010 ER8B10830 8LBSW0H

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	650.7	650.7	650.7	650.7	650.7	650.7	650.7	650.7	650.7	650.7	650.7
2.5°	657.3	656.4	656.7	654.8	654.8	654.2	654.5	652.9	652.3	651.6	652.6
5°	666.9	665.3	664.0	661.1	659.6	657.7	656.7	654.2	651.9	650.0	649.7
7.5°	674.5	671.0	668.8	665.0	662.1	659.9	656.7	653.2	650.3	647.8	645.9
10°	677.7	674.2	670.7	665.9	662.7	658.6	655.4	651.0	647.2	643.7	641.4
12.5°	678.0	673.5	670.4	665.0	660.8	656.4	652.9	647.8	643.4	639.9	636.4
15°	675.1	671.0	667.2	661.5	657.3	653.2	649.1	643.7	639.5	635.4	632.9
17.5°	668.8	665.0	660.5	655.1	651.3	647.5	643.0	638.6	633.8	629.4	626.2
20°	660.5	656.4	652.6	647.2	644.0	639.9	635.7	631.0	627.1	622.7	619.2
22.5°	648.1	644.3	640.8	637.6	632.5	629.4	626.5	621.1	617.3	613.2	609.4
25°	630.3	626.5	623.7	619.8	617.6	614.1	611.3	606.5	603.0	599.2	596.0
27.5°	601.1	598.9	597.3	595.1	593.2	591.6	590.0	586.2	583.6	580.1	577.0
30°	557.3	556.9	556.0	555.0	556.3	556.3	556.3	555.7	553.4	550.9	548.7
32.5°	501.0	501.7	502.9	503.9	506.4	509.3	511.8	513.1	513.1	511.5	510.6
35°	434.0	434.9	436.9	439.4	442.6	446.1	451.8	453.1	454.0	454.0	452.7
37.5°	364.4	364.1	366.0	368.2	370.1	372.7	376.8	377.8	379.3	378.7	377.4
40°	296.7	295.1	294.5	295.1	297.4	296.4	297.4	296.7	296.7	294.5	294.5
42.5°	234.1	232.2	231.0	230.0	230.0	227.8	226.2	224.6	223.7	222.1	221.8
45°	180.5	178.2	176.6	176.0	175.1	172.2	170.3	168.4	166.2	165.5	165.8
47.5°	140.1	137.9	137.2	135.7	134.1	132.5	131.2	129.0	128.7	127.4	128.7
50°	108.0	107.4	106.4	105.8	104.8	103.6	102.3	101.0	100.4	100.4	100.7
52.5°	83.9	84.2	83.2	82.3	81.7	81.7	80.1	79.7	79.7	78.5	79.7
55°	64.2	63.9	64.2	63.5	63.5	62.6	62.6	61.6	61.6	60.7	61.3
57.5°	47.0	47.7	47.0	47.3	48.0	47.0	46.7	45.7	46.4	45.7	46.1
60°	36.5	36.5	36.5	36.2	36.2	35.9	35.9	35.6	35.6	34.9	35.6
62.5°	27.0	27.3	27.3	27.3	27.6	27.3	27.0	27.3	27.0	27.0	27.3
65°	17.8	18.1	18.1	17.8	18.4	17.8	18.1	18.4	18.7	18.4	18.7
67.5°	12.1	12.1	12.4	12.7	12.4	12.7	13.0	12.7	13.0	13.7	13.0
70°	8.9	9.2	9.2	8.9	8.6	8.9	8.6	9.5	9.5	9.5	10.2
72.5°	5.7	5.7	5.4	5.4	5.4	5.4	5.4	6.4	5.7	5.4	6.0
75°	3.2	3.5	3.5	2.5	2.9	3.5	2.5	2.9	3.8	3.2	3.8
77.5°	1.9	1.9	1.9	1.9	1.9	1.9	2.5	2.2	2.2	2.2	2.5
80°	1.6	1.3	1.3	1.0	1.3	1.3	1.3	1.9	1.6	1.6	1.9
82.5°	0.6	0.6	0.3	0.0	0.6	0.6	0.6	0.6	0.6	0.6	1.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	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: P244524

CATALOG NUMBER: LD8B10D010 ER8B10830 8LBSW0H

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	650.7	650.7	650.7	650.7	650.7	650.7	650.7	650.7	650.7	650.7	650.7
2.5°	650.0	650.0	649.7	649.1	647.8	647.8	647.5	646.5	645.9	645.6	645.6
5°	646.8	645.6	644.3	640.8	640.8	640.2	638.3	637.0	636.4	634.8	634.1
7.5°	644.0	640.2	637.9	635.7	632.9	631.6	629.4	628.4	626.2	624.6	623.7
10°	637.0	634.5	631.6	628.1	625.9	623.3	620.8	618.9	616.0	614.4	613.2
12.5°	632.2	628.4	625.9	622.1	618.3	616.0	612.5	610.3	607.5	604.3	602.4
15°	627.8	623.7	620.2	616.0	611.9	609.4	605.2	602.7	598.6	595.4	593.2
17.5°	621.1	617.6	613.8	608.7	604.9	601.7	597.3	594.1	590.3	586.2	583.9
20°	614.1	610.0	606.2	601.1	597.3	593.5	589.0	585.5	581.1	577.3	574.7
22.5°	604.9	600.1	597.0	591.9	587.4	583.3	579.2	575.0	570.9	567.7	564.9
25°	591.6	586.5	583.0	578.9	574.7	571.6	566.5	563.9	559.8	556.9	554.1
27.5°	572.5	568.7	565.5	561.4	557.9	555.4	551.5	549.0	545.5	543.0	540.7
30°	544.6	541.4	538.5	534.4	531.8	529.6	526.1	523.9	521.4	518.5	517.9
32.5°	507.1	504.5	501.7	498.8	496.9	495.6	492.8	491.5	488.9	487.4	485.8
35°	450.5	448.3	446.7	445.4	444.8	445.1	444.5	445.7	446.4	446.1	446.4
37.5°	376.5	375.2	375.8	376.8	380.0	384.1	387.9	393.6	397.5	401.3	404.8
40°	293.9	294.8	297.4	303.1	311.4	320.6	329.1	340.0	350.8	358.4	365.4
42.5°	221.8	224.6	231.0	239.2	251.6	265.3	278.6	294.5	307.5	320.2	329.1
45°	166.8	170.6	178.9	190.3	204.0	219.9	236.7	254.5	270.1	283.1	292.9
47.5°	129.9	133.4	141.7	153.8	170.6	187.1	204.6	223.0	239.2	251.9	260.5
50°	102.6	107.1	114.4	127.1	143.9	161.4	179.5	197.6	212.9	223.7	231.3
52.5°	80.7	84.8	91.8	105.2	122.3	139.8	156.6	174.4	187.8	198.2	203.3
55°	62.6	66.4	73.7	84.8	101.0	118.2	135.0	150.3	162.7	170.3	175.1
57.5°	47.7	50.5	55.6	66.7	81.3	97.2	111.5	126.8	136.3	141.7	144.9
60°	36.2	38.4	43.8	52.4	65.8	79.4	91.5	102.9	110.6	115.0	118.2
62.5°	27.3	29.9	33.7	41.0	51.1	62.3	72.4	81.0	87.4	90.2	92.5
65°	18.7	20.6	23.5	29.2	37.8	45.7	53.7	60.0	64.2	67.4	68.6
67.5°	14.0	15.2	16.8	21.3	27.3	33.7	39.1	43.5	48.0	49.2	51.5
70°	10.5	11.4	13.0	16.2	19.7	24.1	28.6	31.1	34.3	36.5	37.2
72.5°	6.7	7.0	8.6	10.5	13.3	16.2	19.1	21.3	23.2	24.5	25.1
75°	3.8	5.7	5.7	7.6	9.5	10.8	12.7	14.3	15.2	16.2	16.2
77.5°	2.5	3.5	3.8	4.8	5.7	7.3	8.9	9.8	10.8	11.1	11.1
80°	2.2	2.5	2.5	3.5	4.1	5.4	6.4	6.7	7.3	7.6	8.3
82.5°	1.0	1.3	1.6	2.5	2.9	2.9	3.8	4.1	4.8	5.1	5.1
85°	0.3	0.6	0.6	1.0	1.6	1.9	2.2	2.5	2.9	2.9	3.2
87.5°	0.3	0.3	0.0	0.3	0.6	0.6	1.3	1.3	1.3	1.9	1.9
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: P244524

CATALOG NUMBER: LD8B10D010 ER8B10830 8LBSW0H

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	650.7	650.7	650.7	650.7	650.7	650.7	650.7
2.5°	644.9	645.3	644.0	643.7	643.0	643.4	644.0
5°	633.2	633.5	632.2	631.0	631.0	630.6	631.0
7.5°	622.1	622.4	620.5	619.8	618.6	618.9	618.9
10°	610.9	610.9	608.1	607.8	606.8	606.5	606.5
12.5°	600.1	599.2	597.0	595.7	596.3	594.4	594.4
15°	590.6	589.0	586.2	585.2	583.6	583.0	583.0
17.5°	580.8	579.5	577.0	575.0	573.1	572.8	573.1
20°	571.2	570.0	566.8	565.5	563.9	563.9	563.3
22.5°	561.7	560.4	557.6	556.6	554.4	554.4	554.7
25°	551.9	550.9	547.7	547.1	546.8	545.5	546.1
27.5°	538.5	537.9	535.3	534.4	533.1	532.8	533.4
30°	514.0	513.1	511.2	510.2	508.0	508.3	509.0
32.5°	483.5	482.3	479.7	478.8	476.9	476.2	476.6
35°	445.4	444.5	442.3	442.3	440.3	439.7	440.3
37.5°	406.7	407.6	406.7	407.6	406.7	406.3	406.7
40°	370.1	373.6	374.3	377.8	376.5	378.4	378.1
42.5°	335.2	340.9	343.1	346.0	345.4	346.6	347.6
45°	299.9	304.7	306.9	308.8	309.1	309.8	310.1
47.5°	266.5	270.4	270.7	272.9	272.6	272.6	273.5
50°	235.4	238.0	238.6	240.2	238.9	238.3	238.6
52.5°	206.5	209.0	208.4	209.0	207.5	206.8	207.1
55°	177.0	178.2	178.2	178.2	176.3	176.3	176.3
57.5°	146.8	147.1	146.5	146.8	146.5	144.6	144.2
60°	119.1	119.1	118.8	119.1	118.2	117.2	117.2
62.5°	93.1	93.7	95.0	93.7	93.1	93.7	92.8
65°	69.6	70.9	70.5	71.2	70.9	70.9	70.2
67.5°	52.4	52.7	53.1	53.4	53.4	53.4	53.4
70°	38.4	39.4	39.1	39.1	39.1	39.1	41.0
72.5°	25.7	27.0	26.7	27.3	27.3	28.0	27.3
75°	17.5	18.7	18.1	19.1	18.7	18.1	19.7
77.5°	11.8	12.4	12.7	13.0	12.7	12.4	12.7
80°	8.3	8.9	8.6	8.9	8.9	8.9	9.2
82.5°	5.1	6.0	5.7	6.0	5.7	6.0	6.0
85°	3.5	3.8	3.2	3.8	3.5	3.5	4.1
87.5°	2.2	1.9	1.9	2.2	1.9	2.2	1.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)