

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: P248692

Luminaire Tested: **LD8B150D010 ER8B150850 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248692
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: LD8B150D010 ER8B150850 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 5000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16318.0 lumens
Efficiency: N/A
Efficacy: 103.0 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

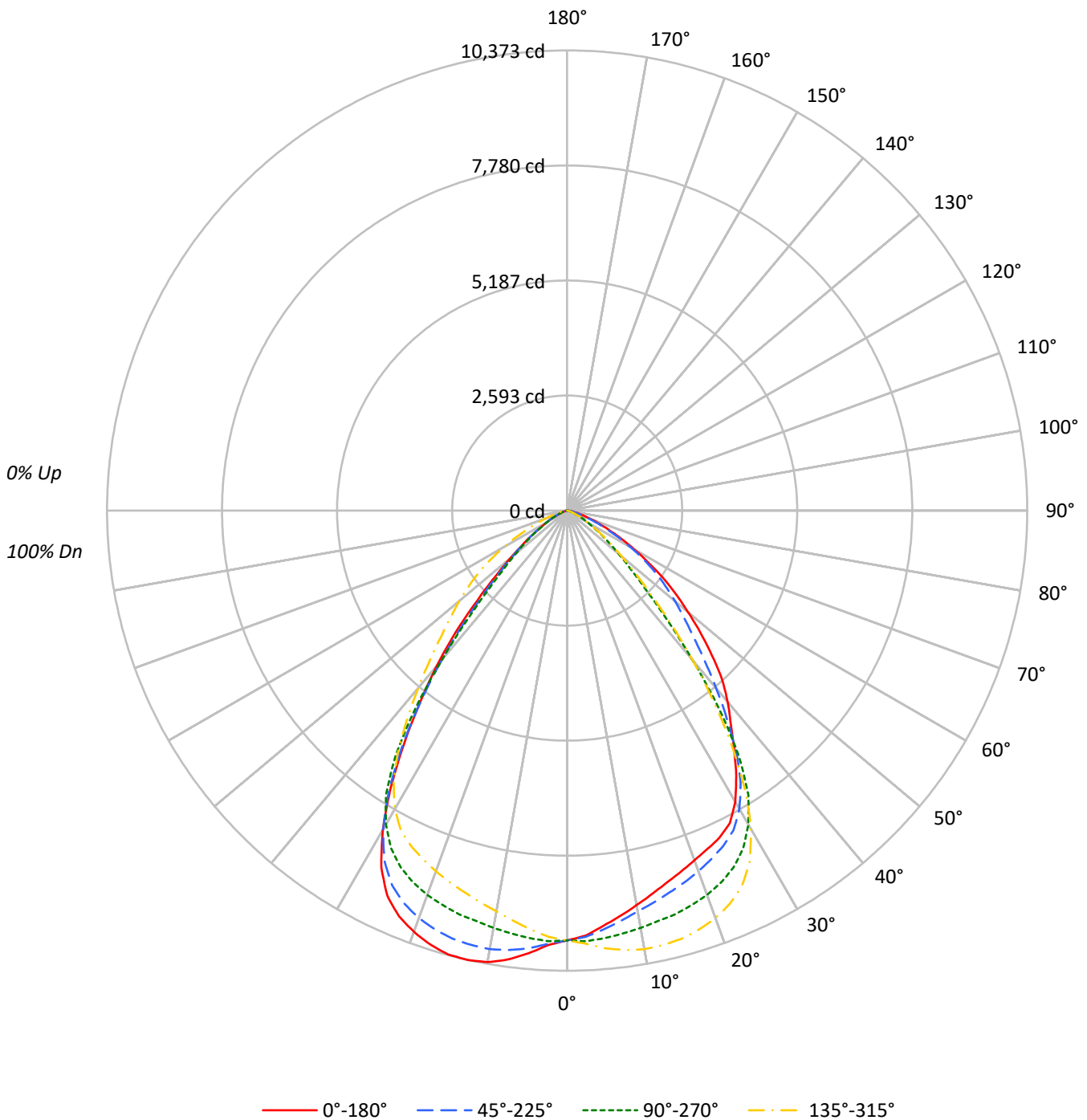
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	298727	298727	298727	298727
5°	290792	299428	310120	299428
10°	282747	299036	323622	299036
15°	277098	300811	330708	300811
20°	275212	302531	331556	302531
25°	276657	301923	326230	301923
30°	269817	290871	296098	290871
35°	246799	253741	240746	253741
40°	226589	176506	184319	176506
45°	201330	107680	124591	107680
50°	170414	71930	79879	71930
55°	141140	49079	51874	49079
60°	107650	32674	32964	32674
65°	76270	20357	18635	20357
70°	55015	13641	12379	13641
75°	34933	6779	5635	6779
80°	24382	5043	4191	5043
85°	21759	0	1663	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	922.1	5.7
10°-20°	2670.1	16.4
20°-30°	4043.1	24.8
30°-40°	4052.2	24.8
40°-50°	2544.6	15.6
50°-60°	1356.0	8.3
60°-70°	557.6	3.4
70°-80°	147.3	0.9
80°-90°	24.9	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°	7635.3	46.8
0°-40°	11687.6	71.6
0°-60°	15588.2	95.5
0°-90°	16318.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16318.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	9688	9688	9688	9688	9688	
5°	9394	9673	10019	9673	9394	886
15°	8680	9423	10359	9423	8680	2455
25°	8131	8874	9588	8874	8131	3729
35°	6556	6740	6395	6740	6556	4107
45°	4617	2469	2857	2469	4617	3551
55°	2625	913	965	913	2625	2341
65°	1045	279	255	279	1045	1084
75°	293	57	47	57	293	332
85°	62	0	5	0	62	68
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°	9687.5	9687.5	9687.5	9687.5	9687.5	9687.5	9687.5	9687.5	9687.5	9687.5	9687.5
2.5°	9588.2	9578.6	9574.0	9583.5	9588.2	9607.1	9602.4	9611.7	9611.7	9616.6	9626.0
5°	9394.3	9389.4	9394.3	9394.3	9413.1	9432.0	9427.4	9441.6	9450.9	9474.7	9484.0
7.5°	9214.6	9214.6	9209.7	9228.6	9238.1	9266.5	9261.7	9285.4	9299.6	9323.2	9356.3
10°	9030.0	9030.0	9034.7	9048.9	9053.7	9096.2	9096.2	9129.3	9148.2	9171.9	9214.6
12.5°	8850.3	8850.3	8878.7	8869.2	8888.0	8921.1	8935.4	8968.5	8996.9	9044.2	9086.8
15°	8679.9	8679.9	8689.4	8713.0	8727.2	8769.9	8793.4	8831.4	8864.5	8911.8	8973.3
17.5°	8533.3	8528.6	8533.3	8561.7	8590.2	8627.9	8646.8	8694.1	8727.2	8788.7	8845.6
20°	8386.7	8396.2	8396.2	8419.8	8438.7	8486.0	8504.9	8557.1	8594.8	8651.5	8717.9
22.5°	8259.0	8254.3	8254.3	8287.4	8301.6	8344.1	8362.9	8410.2	8452.9	8500.2	8561.7
25°	8131.2	8121.7	8140.8	8145.5	8154.8	8202.1	8216.3	8249.4	8292.1	8334.7	8396.2
27.5°	7942.0	7932.7	7937.3	7956.2	7970.4	8008.2	8017.7	8050.8	8083.9	8121.7	8173.9
30°	7577.7	7568.4	7563.7	7596.8	7611.0	7639.2	7653.5	7710.3	7719.6	7762.3	7800.1
32.5°	7095.2	7090.6	7100.1	7128.3	7142.6	7180.5	7199.4	7232.5	7256.1	7279.8	7317.6
35°	6556.1	6546.6	6556.1	6584.6	6584.6	6617.6	6631.9	6645.9	6641.2	6645.9	6636.5
37.5°	6054.8	6049.9	6054.8	6068.8	6054.8	6068.8	6054.8	6026.3	5974.4	5917.5	5860.7
40°	5629.0	5633.6	5605.4	5624.3	5572.1	5562.8	5510.8	5439.7	5335.7	5222.2	5061.4
42.5°	5174.9	5160.7	5141.8	5151.2	5108.7	5075.4	4990.3	4900.6	4768.0	4578.9	4384.8
45°	4616.7	4612.0	4602.5	4597.8	4569.4	4536.3	4465.2	4361.3	4214.7	4020.7	3788.9
47.5°	4072.7	4058.5	4058.5	4063.2	4030.1	4025.4	3968.6	3878.8	3751.1	3561.8	3320.6
50°	3552.3	3547.6	3557.2	3576.0	3552.3	3543.0	3505.2	3443.7	3330.1	3169.3	2942.1
52.5°	3084.0	3079.4	3088.9	3112.5	3102.9	3112.5	3074.7	3027.4	2951.6	2795.5	2596.9
55°	2625.3	2625.3	2625.3	2653.6	2653.6	2653.6	2634.7	2606.4	2535.4	2421.9	2237.5
57.5°	2147.5	2152.2	2180.6	2185.3	2180.6	2190.2	2185.3	2156.9	2109.8	2029.4	1887.4
60°	1745.5	1745.5	1759.7	1773.9	1769.0	1773.9	1773.9	1759.7	1712.4	1646.2	1532.7
62.5°	1381.2	1395.4	1385.9	1395.4	1414.3	1395.4	1385.9	1376.5	1343.4	1300.8	1206.2
65°	1045.3	1054.9	1054.9	1059.6	1050.0	1054.9	1036.0	1021.8	1002.9	955.6	894.1
67.5°	794.8	794.8	794.8	794.8	789.9	785.2	780.6	766.3	733.2	714.4	648.0
70°	610.2	581.8	581.8	581.8	581.8	586.6	572.4	553.5	544.0	510.9	463.6
72.5°	406.7	416.3	406.7	406.7	397.4	402.1	383.2	373.6	364.3	345.4	317.0
75°	293.2	269.7	279.0	283.9	269.7	279.0	260.1	241.2	241.2	227.0	212.8
77.5°	189.2	184.6	189.2	193.9	189.2	184.6	175.0	165.5	165.5	160.8	146.6
80°	137.3	132.4	132.4	132.4	127.7	132.4	123.1	123.1	113.5	108.8	99.3
82.5°	90.0	90.0	85.1	90.0	85.1	90.0	75.7	75.7	75.7	70.9	61.5
85°	61.5	52.0	52.0	56.9	47.3	56.9	52.0	47.3	42.6	42.6	37.8
87.5°	28.4	33.1	28.4	33.1	28.4	28.4	33.1	28.4	28.4	18.9	18.9
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°	9687.5	9687.5	9687.5	9687.5	9687.5	9687.5	9687.5	9687.5	9687.5	9687.5	9687.5
2.5°	9640.2	9644.8	9644.8	9663.9	9673.3	9677.9	9677.9	9715.9	9701.7	9711.2	9720.6
5°	9503.1	9531.3	9540.9	9540.9	9592.9	9611.7	9630.6	9673.3	9677.9	9706.4	9739.5
7.5°	9370.5	9403.6	9422.7	9465.1	9498.2	9531.3	9588.2	9616.6	9644.8	9682.8	9725.3
10°	9242.8	9280.8	9318.5	9351.6	9403.6	9446.2	9484.0	9550.2	9583.5	9635.5	9692.2
12.5°	9119.9	9171.9	9205.0	9261.7	9318.5	9356.3	9413.1	9474.7	9526.7	9578.6	9644.8
15°	9011.1	9072.6	9110.4	9171.9	9233.4	9285.4	9347.0	9422.7	9460.5	9522.0	9583.5
17.5°	8892.7	8959.1	9006.4	9063.1	9138.8	9195.5	9247.7	9323.2	9370.5	9436.7	9507.8
20°	8769.9	8836.1	8892.7	8949.6	9025.3	9082.0	9143.5	9219.2	9271.2	9337.4	9394.3
22.5°	8623.3	8684.8	8746.1	8812.3	8888.0	8935.4	9006.4	9072.6	9129.3	9190.8	9247.7
25°	8434.0	8509.7	8557.1	8618.4	8679.9	8731.9	8807.6	8873.8	8921.1	8978.0	9030.0
27.5°	8211.7	8268.5	8306.3	8358.3	8419.8	8467.1	8523.8	8590.2	8637.5	8689.4	8727.2
30°	7833.2	7885.3	7918.4	7956.2	8017.7	8060.4	8107.7	8169.0	8202.1	8240.1	8273.2
32.5°	7336.5	7379.1	7398.0	7426.4	7469.1	7511.5	7549.5	7601.5	7615.7	7639.2	7639.2
35°	6617.6	6627.0	6622.3	6631.9	6650.7	6674.3	6707.4	6740.5	6759.4	6759.4	6745.4
37.5°	5775.6	5718.9	5657.4	5610.1	5595.9	5586.3	5605.4	5619.4	5638.5	5647.8	5624.3
40°	4900.6	4772.9	4635.6	4512.6	4427.5	4389.7	4375.5	4384.8	4384.8	4417.9	4417.9
42.5°	4148.5	3949.7	3746.4	3561.8	3438.8	3344.4	3301.7	3301.7	3306.4	3330.1	3344.4
45°	3524.1	3273.3	3036.7	2833.5	2663.1	2540.1	2483.4	2469.2	2464.5	2473.9	2507.0
47.5°	3046.3	2786.2	2540.1	2289.5	2109.8	1986.7	1934.7	1915.7	1896.8	1915.7	1920.5
50°	2672.6	2403.0	2142.9	1892.1	1702.8	1594.0	1527.8	1499.4	1494.7	1494.7	1504.3
52.5°	2331.9	2081.3	1821.2	1565.8	1367.0	1263.0	1201.5	1187.3	1168.4	1187.3	1187.3
55°	2010.3	1759.7	1504.3	1263.0	1097.3	988.7	931.8	912.9	903.4	917.6	917.6
57.5°	1660.4	1447.4	1211.0	993.4	827.9	752.1	709.5	685.9	681.1	690.6	681.1
60°	1362.3	1182.6	979.1	780.6	652.8	572.4	539.3	529.8	520.2	529.8	529.8
62.5°	1078.4	927.2	761.5	610.2	501.4	444.7	406.7	406.7	402.1	402.1	406.7
65°	799.4	681.1	562.9	435.2	350.1	307.4	279.0	279.0	274.3	279.0	274.3
67.5°	581.8	501.4	406.7	317.0	250.8	227.0	208.1	193.9	203.5	193.9	189.2
70°	425.8	359.4	293.2	241.2	193.9	170.4	156.1	151.3	141.9	141.9	141.9
72.5°	283.9	241.2	198.6	156.1	127.7	104.0	99.3	90.0	80.4	85.1	94.6
75°	189.2	160.8	141.9	113.5	85.1	85.1	56.9	56.9	47.3	56.9	42.6
77.5°	132.4	108.8	85.1	70.9	56.9	52.0	37.8	37.8	33.1	33.1	33.1
80°	94.6	80.4	61.5	52.0	37.8	37.8	33.1	28.4	23.6	23.6	28.4
82.5°	56.9	42.6	42.6	37.8	23.6	18.9	14.2	18.9	9.5	9.5	9.5
85°	33.1	28.4	23.6	14.2	9.5	9.5	4.7	0.0	4.7	4.7	0.0
87.5°	18.9	9.5	9.5	4.7	0.0	4.7	4.7	0.0	0.0	0.0	9.5
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°	9687.5	9687.5	9687.5	9687.5	9687.5	9687.5	9687.5	9687.5	9687.5	9687.5	9687.5
2.5°	9744.3	9739.5	9749.0	9749.0	9777.4	9772.6	9786.8	9786.8	9777.4	9782.1	9801.0
5°	9777.4	9791.6	9819.9	9843.6	9886.1	9905.2	9928.7	9952.5	9957.1	9971.4	9985.6
7.5°	9777.4	9824.7	9857.8	9900.3	9957.1	9990.2	10042.2	10084.9	10103.7	10127.3	10155.7
10°	9758.4	9805.7	9867.2	9914.5	9985.6	10037.5	10089.5	10155.7	10184.2	10221.9	10259.9
12.5°	9720.6	9772.6	9838.8	9900.3	9980.7	10028.0	10094.2	10155.7	10198.4	10250.4	10293.0
15°	9663.9	9725.3	9786.8	9848.3	9933.4	9990.2	10051.8	10122.6	10165.3	10221.9	10259.9
17.5°	9574.0	9640.2	9697.0	9753.7	9834.1	9900.3	9957.1	10023.3	10066.0	10113.3	10165.3
20°	9465.1	9526.7	9588.2	9635.5	9715.9	9772.6	9834.1	9895.6	9928.7	9938.3	10018.7
22.5°	9328.1	9370.5	9417.8	9493.6	9540.9	9592.9	9649.7	9706.4	9739.5	9791.6	9819.9
25°	9100.8	9143.5	9195.5	9228.6	9285.4	9328.1	9384.7	9446.2	9465.1	9503.1	9531.3
27.5°	8784.1	8807.6	8831.4	8859.6	8892.7	8916.5	8949.6	8978.0	8996.9	9015.8	9034.7
30°	8282.5	8282.5	8282.5	8263.6	8277.9	8292.1	8296.7	8292.1	8292.1	8287.4	8287.4
32.5°	7620.4	7582.6	7539.9	7502.2	7488.0	7469.1	7459.5	7445.3	7421.8	7407.5	7412.2
35°	6726.3	6641.2	6589.2	6541.9	6504.1	6475.7	6461.5	6447.3	6442.6	6423.7	6404.6
37.5°	5610.1	5548.6	5510.8	5482.4	5449.3	5420.8	5425.5	5430.4	5444.4	5435.0	5439.7
40°	4427.5	4413.3	4427.5	4394.4	4384.8	4394.4	4417.9	4451.2	4470.1	4489.0	4522.1
42.5°	3367.9	3391.5	3424.8	3424.8	3438.8	3457.9	3486.1	3538.3	3566.5	3599.6	3637.6
45°	2535.4	2563.8	2606.4	2620.5	2630.0	2653.6	2686.9	2729.3	2748.2	2776.6	2809.7
47.5°	1953.6	1972.5	1996.1	2019.8	2043.4	2052.9	2086.0	2086.0	2109.8	2128.7	2138.0
50°	1523.1	1542.0	1560.9	1575.1	1584.7	1598.9	1608.2	1622.4	1627.1	1636.6	1641.3
52.5°	1192.0	1215.7	1215.7	1225.1	1239.3	1253.5	1248.8	1253.5	1258.1	1258.1	1272.4
55°	931.8	931.8	946.0	946.0	955.6	950.7	955.6	955.6	955.6	955.6	960.3
57.5°	695.3	700.1	714.4	704.8	700.1	709.5	700.1	709.5	704.8	714.4	700.1
60°	534.5	534.5	539.3	539.3	544.0	544.0	544.0	539.3	539.3	534.5	534.5
62.5°	402.1	406.7	411.6	406.7	406.7	406.7	402.1	402.1	397.4	392.5	392.5
65°	269.7	265.0	274.3	265.0	269.7	269.7	265.0	269.7	255.4	260.1	255.4
67.5°	193.9	189.2	184.6	189.2	184.6	179.7	179.7	184.6	189.2	175.0	175.0
70°	127.7	132.4	127.7	132.4	137.3	137.3	132.4	127.7	132.4	123.1	127.7
72.5°	80.4	80.4	80.4	80.4	80.4	85.1	85.1	85.1	75.7	75.7	70.9
75°	37.8	52.0	42.6	37.8	52.0	52.0	47.3	47.3	42.6	42.6	42.6
77.5°	37.8	28.4	28.4	28.4	28.4	28.4	28.4	28.4	23.6	28.4	23.6
80°	18.9	18.9	18.9	14.2	18.9	18.9	23.6	18.9	18.9	14.2	23.6
82.5°	9.5	9.5	9.5	0.0	4.7	9.5	9.5	4.7	9.5	9.5	4.7
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: P248692

CATALOG NUMBER: LD8B150D010 ER8B150850 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	9687.5	9687.5	9687.5	9687.5	9687.5	9687.5	9687.5	9687.5	9687.5	9687.5	9687.5
2.5°	9796.3	9791.6	9796.3	9801.0	9796.3	9791.6	9796.3	9801.0	9782.1	9777.4	9786.8
5°	10004.5	10004.5	10013.8	10018.7	10013.8	10004.5	10004.5	9985.6	9971.4	9957.1	9952.5
7.5°	10184.2	10193.7	10203.0	10207.7	10203.0	10193.7	10184.2	10155.7	10127.3	10103.7	10084.9
10°	10293.0	10307.2	10326.1	10335.4	10326.1	10307.2	10293.0	10259.9	10221.9	10184.2	10155.7
12.5°	10340.3	10354.5	10378.1	10373.4	10378.1	10354.5	10340.3	10293.0	10250.4	10198.4	10155.7
15°	10307.2	10326.1	10349.7	10359.2	10349.7	10326.1	10307.2	10259.9	10221.9	10165.3	10122.6
17.5°	10203.0	10231.5	10245.7	10259.9	10245.7	10231.5	10203.0	10165.3	10113.3	10066.0	10023.3
20°	10061.1	10080.2	10099.1	10103.7	10099.1	10080.2	10061.1	10018.7	9938.3	9928.7	9895.6
22.5°	9857.8	9872.1	9914.5	9900.3	9914.5	9872.1	9857.8	9819.9	9791.6	9739.5	9706.4
25°	9564.4	9578.6	9583.5	9588.2	9583.5	9578.6	9564.4	9531.3	9503.1	9465.1	9446.2
27.5°	9058.4	9058.4	9067.8	9072.6	9067.8	9058.4	9058.4	9034.7	9015.8	8996.9	8978.0
30°	8292.1	8292.1	8292.1	8315.8	8292.1	8292.1	8292.1	8287.4	8287.4	8292.1	8292.1
32.5°	7407.5	7398.0	7388.7	7398.0	7388.7	7398.0	7407.5	7412.2	7407.5	7421.8	7445.3
35°	6404.6	6400.0	6414.2	6395.3	6414.2	6400.0	6404.6	6404.6	6423.7	6442.6	6447.3
37.5°	5444.4	5435.0	5453.9	5435.0	5453.9	5435.0	5444.4	5439.7	5435.0	5444.4	5430.4
40°	4531.6	4541.0	4541.0	4578.9	4541.0	4541.0	4531.6	4522.1	4489.0	4470.1	4451.2
42.5°	3656.5	3684.9	3675.3	3703.8	3675.3	3684.9	3656.5	3637.6	3599.6	3566.5	3538.3
45°	2828.6	2847.7	2847.7	2857.0	2847.7	2847.7	2828.6	2809.7	2776.6	2748.2	2729.3
47.5°	2171.1	2171.1	2171.1	2176.0	2171.1	2171.1	2171.1	2138.0	2128.7	2109.8	2086.0
50°	1650.9	1655.5	1660.4	1665.1	1660.4	1655.5	1650.9	1641.3	1636.6	1627.1	1622.4
52.5°	1267.7	1272.4	1263.0	1272.4	1263.0	1272.4	1267.7	1272.4	1258.1	1258.1	1253.5
55°	960.3	955.6	960.3	964.9	960.3	955.6	960.3	960.3	955.6	955.6	955.6
57.5°	704.8	695.3	695.3	695.3	695.3	695.3	704.8	700.1	714.4	704.8	709.5
60°	525.1	529.8	529.8	534.5	529.8	529.8	525.1	534.5	534.5	539.3	539.3
62.5°	387.8	402.1	392.5	402.1	392.5	402.1	387.8	392.5	392.5	397.4	402.1
65°	250.8	250.8	250.8	255.4	250.8	250.8	250.8	255.4	260.1	255.4	269.7
67.5°	170.4	175.0	184.6	179.7	184.6	175.0	170.4	175.0	175.0	189.2	184.6
70°	137.3	123.1	123.1	137.3	123.1	123.1	137.3	127.7	123.1	132.4	127.7
72.5°	80.4	70.9	80.4	80.4	80.4	70.9	80.4	70.9	75.7	75.7	85.1
75°	42.6	37.8	33.1	47.3	33.1	37.8	42.6	42.6	42.6	42.6	47.3
77.5°	28.4	23.6	33.1	33.1	33.1	23.6	28.4	23.6	28.4	23.6	28.4
80°	14.2	18.9	14.2	23.6	14.2	18.9	14.2	23.6	14.2	18.9	18.9
82.5°	4.7	9.5	9.5	9.5	9.5	9.5	4.7	4.7	9.5	9.5	4.7
85°	0.0	9.5	4.7	4.7	4.7	9.5	0.0	0.0	0.0	0.0	0.0
87.5°	4.7	0.0	0.0	4.7	0.0	0.0	4.7	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: P248692

CATALOG NUMBER: LD8B150D010 ER8B150850 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	9687.5	9687.5	9687.5	9687.5	9687.5	9687.5	9687.5	9687.5	9687.5	9687.5	9687.5
2.5°	9786.8	9772.6	9777.4	9749.0	9749.0	9739.5	9744.3	9720.6	9711.2	9701.7	9715.9
5°	9928.7	9905.2	9886.1	9843.6	9819.9	9791.6	9777.4	9739.5	9706.4	9677.9	9673.3
7.5°	10042.2	9990.2	9957.1	9900.3	9857.8	9824.7	9777.4	9725.3	9682.8	9644.8	9616.6
10°	10089.5	10037.5	9985.6	9914.5	9867.2	9805.7	9758.4	9692.2	9635.5	9583.5	9550.2
12.5°	10094.2	10028.0	9980.7	9900.3	9838.8	9772.6	9720.6	9644.8	9578.6	9526.7	9474.7
15°	10051.8	9990.2	9933.4	9848.3	9786.8	9725.3	9663.9	9583.5	9522.0	9460.5	9422.7
17.5°	9957.1	9900.3	9834.1	9753.7	9697.0	9640.2	9574.0	9507.8	9436.7	9370.5	9323.2
20°	9834.1	9772.6	9715.9	9635.5	9588.2	9526.7	9465.1	9394.3	9337.4	9271.2	9219.2
22.5°	9649.7	9592.9	9540.9	9493.6	9417.8	9370.5	9328.1	9247.7	9190.8	9129.3	9072.6
25°	9384.7	9328.1	9285.4	9228.6	9195.5	9143.5	9100.8	9030.0	8978.0	8921.1	8873.8
27.5°	8949.6	8916.5	8892.7	8859.6	8831.4	8807.6	8784.1	8727.2	8689.4	8637.5	8590.2
30°	8296.7	8292.1	8277.9	8263.6	8282.5	8282.5	8282.5	8273.2	8240.1	8202.1	8169.0
32.5°	7459.5	7469.1	7488.0	7502.2	7539.9	7582.6	7620.4	7639.2	7639.2	7615.7	7601.5
35°	6461.5	6475.7	6504.1	6541.9	6589.2	6641.2	6726.3	6745.4	6759.4	6759.4	6740.5
37.5°	5425.5	5420.8	5449.3	5482.4	5510.8	5548.6	5610.1	5624.3	5647.8	5638.5	5619.4
40°	4417.9	4394.4	4384.8	4394.4	4427.5	4413.3	4427.5	4417.9	4417.9	4384.8	4384.8
42.5°	3486.1	3457.9	3438.8	3424.8	3424.8	3391.5	3367.9	3344.4	3330.1	3306.4	3301.7
45°	2686.9	2653.6	2630.0	2620.5	2606.4	2563.8	2535.4	2507.0	2473.9	2464.5	2469.2
47.5°	2086.0	2052.9	2043.4	2019.8	1996.1	1972.5	1953.6	1920.5	1915.7	1896.8	1915.7
50°	1608.2	1598.9	1584.7	1575.1	1560.9	1542.0	1523.1	1504.3	1494.7	1494.7	1499.4
52.5°	1248.8	1253.5	1239.3	1225.1	1215.7	1215.7	1192.0	1187.3	1187.3	1168.4	1187.3
55°	955.6	950.7	955.6	946.0	946.0	931.8	931.8	917.6	917.6	903.4	912.9
57.5°	700.1	709.5	700.1	704.8	714.4	700.1	695.3	681.1	690.6	681.1	685.9
60°	544.0	544.0	544.0	539.3	539.3	534.5	534.5	529.8	529.8	520.2	529.8
62.5°	402.1	406.7	406.7	406.7	411.6	406.7	402.1	406.7	402.1	402.1	406.7
65°	265.0	269.7	269.7	265.0	274.3	265.0	269.7	274.3	279.0	274.3	279.0
67.5°	179.7	179.7	184.6	189.2	184.6	189.2	193.9	189.2	193.9	203.5	193.9
70°	132.4	137.3	137.3	132.4	127.7	132.4	127.7	141.9	141.9	141.9	151.3
72.5°	85.1	85.1	80.4	80.4	80.4	80.4	80.4	94.6	85.1	80.4	90.0
75°	47.3	52.0	52.0	37.8	42.6	52.0	37.8	42.6	56.9	47.3	56.9
77.5°	28.4	28.4	28.4	28.4	28.4	28.4	37.8	33.1	33.1	33.1	37.8
80°	23.6	18.9	18.9	14.2	18.9	18.9	18.9	28.4	23.6	23.6	28.4
82.5°	9.5	9.5	4.7	0.0	9.5	9.5	9.5	9.5	9.5	9.5	18.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	4.7	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.5	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: P248692

CATALOG NUMBER: LD8B150D010 ER8B150850 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	9687.5	9687.5	9687.5	9687.5	9687.5	9687.5	9687.5	9687.5	9687.5	9687.5	9687.5
2.5°	9677.9	9677.9	9673.3	9663.9	9644.8	9644.8	9640.2	9626.0	9616.6	9611.7	9611.7
5°	9630.6	9611.7	9592.9	9540.9	9540.9	9531.3	9503.1	9484.0	9474.7	9450.9	9441.6
7.5°	9588.2	9531.3	9498.2	9465.1	9422.7	9403.6	9370.5	9356.3	9323.2	9299.6	9285.4
10°	9484.0	9446.2	9403.6	9351.6	9318.5	9280.8	9242.8	9214.6	9171.9	9148.2	9129.3
12.5°	9413.1	9356.3	9318.5	9261.7	9205.0	9171.9	9119.9	9086.8	9044.2	8996.9	8968.5
15°	9347.0	9285.4	9233.4	9171.9	9110.4	9072.6	9011.1	8973.3	8911.8	8864.5	8831.4
17.5°	9247.7	9195.5	9138.8	9063.1	9006.4	8959.1	8892.7	8845.6	8788.7	8727.2	8694.1
20°	9143.5	9082.0	9025.3	8949.6	8892.7	8836.1	8769.9	8717.9	8651.5	8594.8	8557.1
22.5°	9006.4	8935.4	8888.0	8812.3	8746.1	8684.8	8623.3	8561.7	8500.2	8452.9	8410.2
25°	8807.6	8731.9	8679.9	8618.4	8557.1	8509.7	8434.0	8396.2	8334.7	8292.1	8249.4
27.5°	8523.8	8467.1	8419.8	8358.3	8306.3	8268.5	8211.7	8173.9	8121.7	8083.9	8050.8
30°	8107.7	8060.4	8017.7	7956.2	7918.4	7885.3	7833.2	7800.1	7762.3	7719.6	7710.3
32.5°	7549.5	7511.5	7469.1	7426.4	7398.0	7379.1	7336.5	7317.6	7279.8	7256.1	7232.5
35°	6707.4	6674.3	6650.7	6631.9	6622.3	6627.0	6617.6	6636.5	6645.9	6641.2	6645.9
37.5°	5605.4	5586.3	5595.9	5610.1	5657.4	5718.9	5775.6	5860.7	5917.5	5974.4	6026.3
40°	4375.5	4389.7	4427.5	4512.6	4635.6	4772.9	4900.6	5061.4	5222.2	5335.7	5439.7
42.5°	3301.7	3344.4	3438.8	3561.8	3746.4	3949.7	4148.5	4384.8	4578.9	4768.0	4900.6
45°	2483.4	2540.1	2663.1	2833.5	3036.7	3273.3	3524.1	3788.9	4020.7	4214.7	4361.3
47.5°	1934.7	1986.7	2109.8	2289.5	2540.1	2786.2	3046.3	3320.6	3561.8	3751.1	3878.8
50°	1527.8	1594.0	1702.8	1892.1	2142.9	2403.0	2672.6	2942.1	3169.3	3330.1	3443.7
52.5°	1201.5	1263.0	1367.0	1565.8	1821.2	2081.3	2331.9	2596.9	2795.5	2951.6	3027.4
55°	931.8	988.7	1097.3	1263.0	1504.3	1759.7	2010.3	2237.5	2421.9	2535.4	2606.4
57.5°	709.5	752.1	827.9	993.4	1211.0	1447.4	1660.4	1887.4	2029.4	2109.8	2156.9
60°	539.3	572.4	652.8	780.6	979.1	1182.6	1362.3	1532.7	1646.2	1712.4	1759.7
62.5°	406.7	444.7	501.4	610.2	761.5	927.2	1078.4	1206.2	1300.8	1343.4	1376.5
65°	279.0	307.4	350.1	435.2	562.9	681.1	799.4	894.1	955.6	1002.9	1021.8
67.5°	208.1	227.0	250.8	317.0	406.7	501.4	581.8	648.0	714.4	733.2	766.3
70°	156.1	170.4	193.9	241.2	293.2	359.4	425.8	463.6	510.9	544.0	553.5
72.5°	99.3	104.0	127.7	156.1	198.6	241.2	283.9	317.0	345.4	364.3	373.6
75°	56.9	85.1	85.1	113.5	141.9	160.8	189.2	212.8	227.0	241.2	241.2
77.5°	37.8	52.0	56.9	70.9	85.1	108.8	132.4	146.6	160.8	165.5	165.5
80°	33.1	37.8	37.8	52.0	61.5	80.4	94.6	99.3	108.8	113.5	123.1
82.5°	14.2	18.9	23.6	37.8	42.6	42.6	56.9	61.5	70.9	75.7	75.7
85°	4.7	9.5	9.5	14.2	23.6	28.4	33.1	37.8	42.6	42.6	47.3
87.5°	4.7	4.7	0.0	4.7	9.5	9.5	18.9	18.9	18.9	28.4	28.4
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: P248692

CATALOG NUMBER: LD8B150D010 ER8B150850 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	9687.5	9687.5	9687.5	9687.5	9687.5	9687.5	9687.5
2.5°	9602.4	9607.1	9588.2	9583.5	9574.0	9578.6	9588.2
5°	9427.4	9432.0	9413.1	9394.3	9394.3	9389.4	9394.3
7.5°	9261.7	9266.5	9238.1	9228.6	9209.7	9214.6	9214.6
10°	9096.2	9096.2	9053.7	9048.9	9034.7	9030.0	9030.0
12.5°	8935.4	8921.1	8888.0	8869.2	8878.7	8850.3	8850.3
15°	8793.4	8769.9	8727.2	8713.0	8689.4	8679.9	8679.9
17.5°	8646.8	8627.9	8590.2	8561.7	8533.3	8528.6	8533.3
20°	8504.9	8486.0	8438.7	8419.8	8396.2	8396.2	8386.7
22.5°	8362.9	8344.1	8301.6	8287.4	8254.3	8254.3	8259.0
25°	8216.3	8202.1	8154.8	8145.5	8140.8	8121.7	8131.2
27.5°	8017.7	8008.2	7970.4	7956.2	7937.3	7932.7	7942.0
30°	7653.5	7639.2	7611.0	7596.8	7563.7	7568.4	7577.7
32.5°	7199.4	7180.5	7142.6	7128.3	7100.1	7090.6	7095.2
35°	6631.9	6617.6	6584.6	6584.6	6556.1	6546.6	6556.1
37.5°	6054.8	6068.8	6054.8	6068.8	6054.8	6049.9	6054.8
40°	5510.8	5562.8	5572.1	5624.3	5605.4	5633.6	5629.0
42.5°	4990.3	5075.4	5108.7	5151.2	5141.8	5160.7	5174.9
45°	4465.2	4536.3	4569.4	4597.8	4602.5	4612.0	4616.7
47.5°	3968.6	4025.4	4030.1	4063.2	4058.5	4058.5	4072.7
50°	3505.2	3543.0	3552.3	3576.0	3557.2	3547.6	3552.3
52.5°	3074.7	3112.5	3102.9	3112.5	3088.9	3079.4	3084.0
55°	2634.7	2653.6	2653.6	2653.6	2625.3	2625.3	2625.3
57.5°	2185.3	2190.2	2180.6	2185.3	2180.6	2152.2	2147.5
60°	1773.9	1773.9	1769.0	1773.9	1759.7	1745.5	1745.5
62.5°	1385.9	1395.4	1414.3	1395.4	1385.9	1395.4	1381.2
65°	1036.0	1054.9	1050.0	1059.6	1054.9	1054.9	1045.3
67.5°	780.6	785.2	789.9	794.8	794.8	794.8	794.8
70°	572.4	586.6	581.8	581.8	581.8	581.8	610.2
72.5°	383.2	402.1	397.4	406.7	406.7	416.3	406.7
75°	260.1	279.0	269.7	283.9	279.0	269.7	293.2
77.5°	175.0	184.6	189.2	193.9	189.2	184.6	189.2
80°	123.1	132.4	127.7	132.4	132.4	132.4	137.3
82.5°	75.7	90.0	85.1	90.0	85.1	90.0	90.0
85°	52.0	56.9	47.3	56.9	52.0	52.0	61.5
87.5°	33.1	28.4	28.4	33.1	28.4	33.1	28.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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