

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: P248575

Luminaire Tested: **LD8B150D010 ER8B150840 8LBSW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248575
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 ER8B150840 8LBSW0H
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16146.0 lumens
Efficiency: N/A
Efficacy: 101.9 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

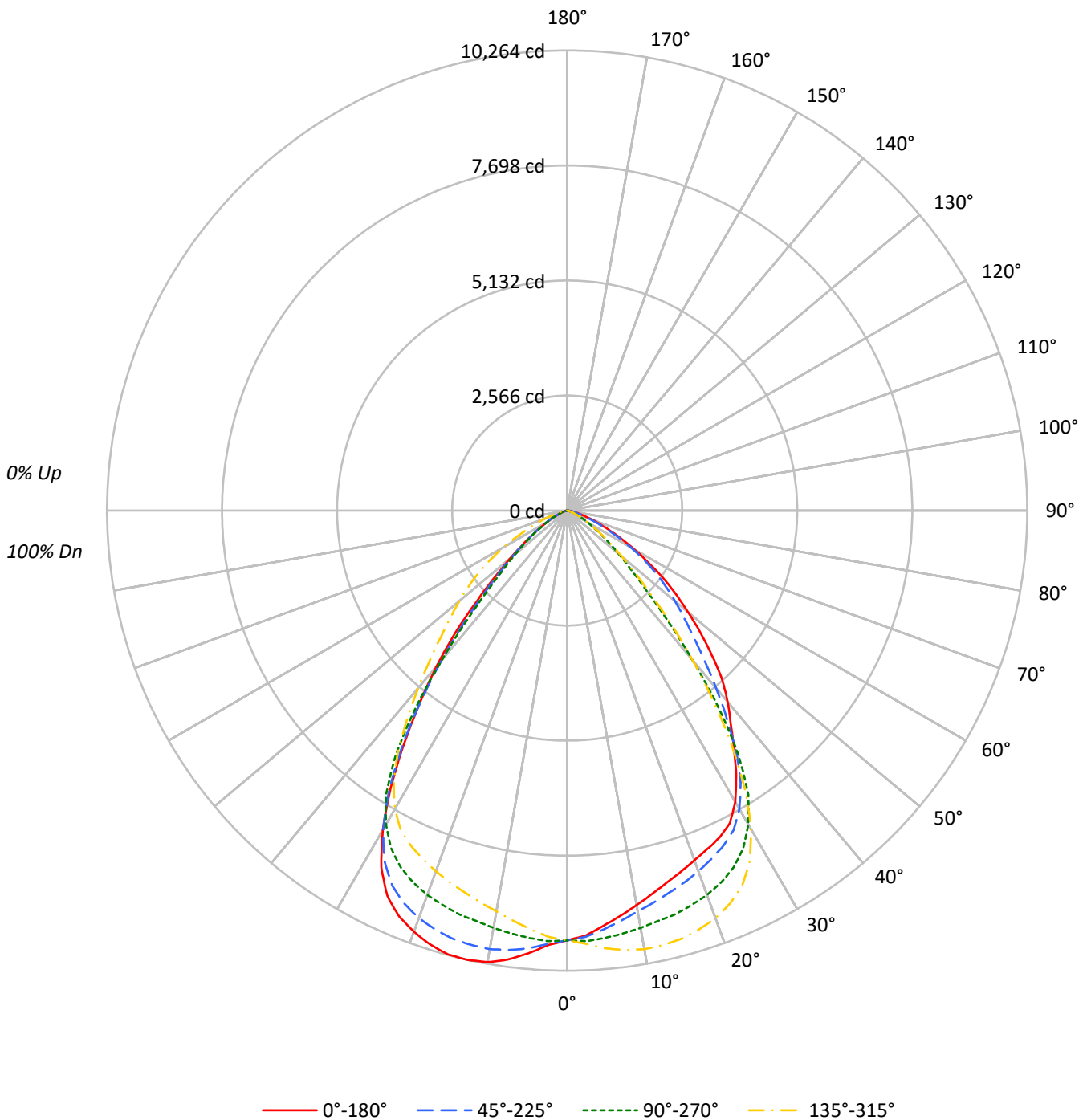
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	295578	295578	295578	295578
5°	287725	296271	306851	296271
10°	279767	295886	320212	295886
15°	274177	297641	327222	297641
20°	272311	299345	328061	299345
25°	273741	298742	322790	298742
30°	266972	287805	292979	287805
35°	244198	251068	238209	251068
40°	224198	174646	182379	174646
45°	199211	106546	123279	106546
50°	168620	71172	79035	71172
55°	139656	48563	51331	48563
60°	106515	32329	32612	32329
65°	75468	20146	18446	20146
70°	54438	13497	12244	13497
75°	34563	6708	5576	6708
80°	24115	4990	4138	4990
85°	21547	0	1628	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	912.3	5.7
10°-20°	2642.0	16.4
20°-30°	4000.5	24.8
30°-40°	4009.5	24.8
40°-50°	2517.8	15.6
50°-60°	1341.7	8.3
60°-70°	551.7	3.4
70°-80°	145.8	0.9
80°-90°	24.6	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°	7554.9	46.8
0°-40°	11564.4	71.6
0°-60°	15423.8	95.5
0°-90°	16146.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16146.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	9585	9585	9585	9585	9585	
5°	9295	9571	9913	9571	9295	877
15°	8588	9323	10250	9323	8588	2429
25°	8046	8780	9487	8780	8046	3690
35°	6487	6670	6328	6670	6487	4064
45°	4568	2443	2827	2443	4568	3513
55°	2598	903	955	903	2598	2316
65°	1034	276	253	276	1034	1073
75°	290	56	47	56	290	329
85°	61	0	5	0	61	67
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°	9585.4	9585.4	9585.4	9585.4	9585.4	9585.4	9585.4	9585.4	9585.4	9585.4	9585.4
2.5°	9487.1	9477.7	9473.1	9482.5	9487.1	9505.8	9501.2	9510.4	9510.4	9515.2	9524.5
5°	9295.2	9290.4	9295.2	9295.2	9313.9	9332.6	9328.0	9342.1	9351.3	9374.8	9384.1
7.5°	9117.4	9117.4	9112.6	9131.3	9140.7	9168.9	9164.0	9187.6	9201.6	9224.9	9257.7
10°	8934.8	8934.8	8939.4	8953.5	8958.3	9000.3	9000.3	9033.0	9051.7	9075.2	9117.4
12.5°	8757.0	8757.0	8785.1	8775.7	8794.4	8827.1	8841.2	8873.9	8902.0	8948.9	8991.1
15°	8588.4	8588.4	8597.9	8621.2	8635.2	8677.4	8700.7	8738.3	8771.0	8817.9	8878.7
17.5°	8443.4	8438.7	8443.4	8471.5	8499.6	8537.0	8555.7	8602.5	8635.2	8696.1	8752.4
20°	8298.3	8307.7	8307.7	8331.0	8349.7	8396.5	8415.2	8466.9	8504.2	8560.3	8626.0
22.5°	8171.9	8167.3	8167.3	8200.0	8214.1	8256.1	8274.8	8321.6	8363.8	8410.6	8471.5
25°	8045.5	8036.1	8055.0	8059.6	8068.8	8115.7	8129.7	8162.5	8204.7	8246.9	8307.7
27.5°	7858.3	7849.0	7853.7	7872.3	7886.4	7923.8	7933.2	7966.0	7998.7	8036.1	8087.7
30°	7497.8	7488.6	7484.0	7516.7	7530.8	7558.7	7572.8	7629.0	7638.3	7680.5	7717.8
32.5°	7020.5	7015.8	7025.3	7053.2	7067.3	7104.8	7123.5	7156.3	7179.6	7203.1	7240.5
35°	6487.0	6477.6	6487.0	6515.1	6515.1	6547.9	6562.0	6575.8	6571.2	6575.8	6566.6
37.5°	5991.0	5986.1	5991.0	6004.8	5991.0	6004.8	5991.0	5962.8	5911.4	5855.1	5798.9
40°	5569.6	5574.3	5546.3	5565.0	5513.4	5504.1	5452.7	5382.4	5279.5	5167.2	5008.1
42.5°	5120.4	5106.3	5087.6	5096.9	5054.9	5021.9	4937.7	4848.9	4717.7	4530.7	4338.6
45°	4568.1	4563.4	4554.0	4549.4	4521.2	4488.5	4418.2	4315.3	4170.2	3978.4	3748.9
47.5°	4029.8	4015.7	4015.7	4020.4	3987.6	3983.0	3926.7	3837.9	3711.5	3524.3	3285.6
50°	3514.9	3510.2	3519.7	3538.4	3514.9	3505.6	3468.2	3407.4	3295.0	3135.9	2911.1
52.5°	3051.5	3046.9	3056.4	3079.7	3070.2	3079.7	3042.3	2995.5	2920.5	2766.0	2569.5
55°	2597.7	2597.7	2597.7	2625.6	2625.6	2625.6	2606.9	2579.0	2508.7	2396.3	2213.9
57.5°	2124.9	2129.5	2157.7	2162.3	2157.7	2167.1	2162.3	2134.1	2087.5	2008.0	1867.5
60°	1727.1	1727.1	1741.1	1755.2	1750.4	1755.2	1755.2	1741.1	1694.3	1628.8	1516.5
62.5°	1366.6	1380.7	1371.3	1380.7	1399.4	1380.7	1371.3	1362.0	1329.3	1287.1	1193.5
65°	1034.3	1043.8	1043.8	1048.4	1038.9	1043.8	1025.1	1011.0	992.3	945.5	884.6
67.5°	786.4	786.4	786.4	786.4	781.6	776.9	772.3	758.3	725.5	706.8	641.1
70°	603.8	575.6	575.6	575.6	575.6	580.4	566.4	547.7	538.3	505.5	458.7
72.5°	402.4	411.9	402.4	402.4	393.2	397.8	379.1	369.7	360.4	341.8	313.6
75°	290.1	266.8	276.1	280.9	266.8	276.1	257.4	238.7	238.7	224.6	210.6
77.5°	187.3	182.6	187.3	191.9	187.3	182.6	173.2	163.8	163.8	159.1	145.1
80°	135.8	131.0	131.0	131.0	126.4	131.0	121.8	121.8	112.3	107.7	98.3
82.5°	89.0	89.0	84.2	89.0	84.2	89.0	74.9	74.9	74.9	70.1	60.9
85°	60.9	51.4	51.4	56.3	46.8	56.3	51.4	46.8	42.2	42.2	37.4
87.5°	28.1	32.8	28.1	32.8	28.1	28.1	32.8	28.1	28.1	18.7	18.7
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°	9585.4	9585.4	9585.4	9585.4	9585.4	9585.4	9585.4	9585.4	9585.4	9585.4	9585.4
2.5°	9538.6	9543.2	9543.2	9562.1	9571.3	9575.9	9575.9	9613.5	9599.4	9608.9	9618.1
5°	9402.9	9430.9	9440.3	9440.3	9491.7	9510.4	9529.1	9571.3	9575.9	9604.1	9636.8
7.5°	9271.7	9304.5	9323.4	9365.4	9398.1	9430.9	9487.1	9515.2	9543.2	9580.7	9622.7
10°	9145.4	9182.9	9220.3	9253.1	9304.5	9346.7	9384.1	9449.6	9482.5	9533.9	9590.0
12.5°	9023.8	9075.2	9108.0	9164.0	9220.3	9257.7	9313.9	9374.8	9426.2	9477.7	9543.2
15°	8916.1	8977.0	9014.4	9075.2	9136.1	9187.6	9248.4	9323.4	9360.7	9421.6	9482.5
17.5°	8799.0	8864.7	8911.5	8967.5	9042.5	9098.5	9150.2	9224.9	9271.7	9337.2	9407.6
20°	8677.4	8742.9	8799.0	8855.2	8930.2	8986.2	9047.1	9122.1	9173.5	9239.0	9295.2
22.5°	8532.4	8593.2	8653.9	8719.4	8794.4	8841.2	8911.5	8977.0	9033.0	9093.9	9150.2
25°	8345.1	8420.0	8466.9	8527.5	8588.4	8639.9	8714.8	8780.3	8827.1	8883.4	8934.8
27.5°	8125.1	8181.4	8218.7	8270.2	8331.0	8377.9	8433.9	8499.6	8546.4	8597.9	8635.2
30°	7750.6	7802.2	7835.0	7872.3	7933.2	7975.4	8022.2	8082.9	8115.7	8153.2	8186.0
32.5°	7259.2	7301.3	7320.0	7348.2	7390.3	7432.3	7469.9	7521.3	7535.4	7558.7	7558.7
35°	6547.9	6557.1	6552.5	6562.0	6580.6	6604.0	6636.7	6669.5	6688.1	6688.1	6674.3
37.5°	5714.7	5658.6	5597.8	5550.9	5536.9	5527.4	5546.3	5560.2	5579.1	5588.3	5565.0
40°	4848.9	4722.6	4586.7	4465.0	4380.8	4343.4	4329.4	4338.6	4338.6	4371.4	4371.4
42.5°	4104.7	3908.0	3706.9	3524.3	3402.5	3309.1	3266.9	3266.9	3271.5	3295.0	3309.1
45°	3486.9	3238.8	3004.7	2803.6	2635.0	2513.3	2457.2	2443.2	2438.5	2447.8	2480.5
47.5°	3014.2	2756.8	2513.3	2265.3	2087.5	1965.8	1914.3	1895.5	1876.8	1895.5	1900.3
50°	2644.5	2377.7	2120.3	1872.1	1684.9	1577.2	1511.7	1483.6	1479.0	1479.0	1488.4
52.5°	2307.3	2059.4	1802.0	1549.3	1352.6	1249.7	1188.8	1174.8	1156.1	1174.8	1174.8
55°	1989.1	1741.1	1488.4	1249.7	1085.8	978.3	922.0	903.3	893.9	907.9	907.9
57.5°	1642.9	1432.1	1198.3	982.9	819.1	744.2	702.0	678.7	673.9	683.3	673.9
60°	1348.0	1170.1	968.8	772.3	645.9	566.4	533.6	524.2	514.8	524.2	524.2
62.5°	1067.1	917.4	753.4	603.8	496.1	440.0	402.4	402.4	397.8	397.8	402.4
65°	791.0	673.9	556.9	430.6	346.4	304.2	276.1	276.1	271.4	276.1	271.4
67.5°	575.6	496.1	402.4	313.6	248.1	224.6	205.9	191.9	201.3	191.9	187.3
70°	421.3	355.6	290.1	238.7	191.9	168.6	154.5	149.7	140.4	140.4	140.4
72.5°	280.9	238.7	196.5	154.5	126.4	102.9	98.3	89.0	79.6	84.2	93.6
75°	187.3	159.1	140.4	112.3	84.2	84.2	56.3	56.3	46.8	56.3	42.2
77.5°	131.0	107.7	84.2	70.1	56.3	51.4	37.4	37.4	32.8	32.8	32.8
80°	93.6	79.6	60.9	51.4	37.4	37.4	32.8	28.1	23.3	23.3	28.1
82.5°	56.3	42.2	42.2	37.4	23.3	18.7	14.1	18.7	9.4	9.4	9.4
85°	32.8	28.1	23.3	14.1	9.4	9.4	4.6	0.0	4.6	4.6	0.0
87.5°	18.7	9.4	9.4	4.6	0.0	4.6	4.6	0.0	0.0	0.0	9.4
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°	9585.4	9585.4	9585.4	9585.4	9585.4	9585.4	9585.4	9585.4	9585.4	9585.4	9585.4
2.5°	9641.6	9636.8	9646.2	9646.2	9674.4	9669.6	9683.6	9683.6	9674.4	9679.0	9697.7
5°	9674.4	9688.4	9716.4	9739.9	9781.9	9800.7	9824.1	9847.6	9852.2	9866.2	9880.3
7.5°	9674.4	9721.2	9753.9	9795.9	9852.2	9884.9	9936.4	9978.6	9997.2	10020.6	10048.7
10°	9655.5	9702.3	9763.2	9810.0	9880.3	9931.7	9983.2	10048.7	10076.8	10114.2	10151.8
12.5°	9618.1	9669.6	9735.1	9795.9	9875.5	9922.3	9987.8	10048.7	10090.9	10142.3	10184.5
15°	9562.1	9622.7	9683.6	9744.5	9828.7	9884.9	9945.8	10015.9	10058.1	10114.2	10151.8
17.5°	9473.1	9538.6	9594.8	9650.9	9730.4	9795.9	9852.2	9917.7	9959.9	10006.7	10058.1
20°	9365.4	9426.2	9487.1	9533.9	9613.5	9669.6	9730.4	9791.3	9824.1	9833.5	9913.1
22.5°	9229.7	9271.7	9318.6	9393.5	9440.3	9491.7	9548.0	9604.1	9636.8	9688.4	9716.4
25°	9004.9	9047.1	9098.5	9131.3	9187.6	9229.7	9285.8	9346.7	9365.4	9402.9	9430.9
27.5°	8691.5	8714.8	8738.3	8766.2	8799.0	8822.5	8855.2	8883.4	8902.0	8920.7	8939.4
30°	8195.2	8195.2	8195.2	8176.5	8190.6	8204.7	8209.3	8204.7	8204.7	8200.0	8200.0
32.5°	7540.0	7502.7	7460.5	7423.1	7409.0	7390.3	7380.9	7366.8	7343.5	7329.5	7334.1
35°	6655.4	6571.2	6519.8	6473.0	6435.6	6407.5	6393.4	6379.3	6374.7	6356.0	6337.1
37.5°	5550.9	5490.1	5452.7	5424.6	5391.8	5363.7	5368.3	5373.1	5387.0	5377.8	5382.4
40°	4380.8	4366.7	4380.8	4348.1	4338.6	4348.1	4371.4	4404.3	4423.0	4441.7	4474.4
42.5°	3332.4	3355.7	3388.7	3388.7	3402.5	3421.4	3449.4	3501.0	3528.9	3561.7	3599.2
45°	2508.7	2536.8	2579.0	2592.8	2602.3	2625.6	2658.5	2700.5	2719.2	2747.3	2780.1
47.5°	1933.0	1951.7	1975.0	1998.5	2021.8	2031.3	2064.0	2064.0	2087.5	2106.2	2115.5
50°	1507.1	1525.8	1544.5	1558.5	1568.0	1582.0	1591.3	1605.3	1610.0	1619.4	1624.0
52.5°	1179.4	1202.9	1202.9	1212.1	1226.2	1240.3	1235.6	1240.3	1244.9	1244.9	1259.0
55°	922.0	922.0	936.1	936.1	945.5	940.7	945.5	945.5	945.5	945.5	950.1
57.5°	687.9	692.8	706.8	697.4	692.8	702.0	692.8	702.0	697.4	706.8	692.8
60°	528.8	528.8	533.6	533.6	538.3	538.3	538.3	533.6	533.6	528.8	528.8
62.5°	397.8	402.4	407.3	402.4	402.4	402.4	397.8	397.8	393.2	388.4	388.4
65°	266.8	262.2	271.4	262.2	266.8	266.8	262.2	266.8	252.8	257.4	252.8
67.5°	191.9	187.3	182.6	187.3	182.6	177.8	177.8	182.6	187.3	173.2	173.2
70°	126.4	131.0	126.4	131.0	135.8	135.8	131.0	126.4	131.0	121.8	126.4
72.5°	79.6	79.6	79.6	79.6	79.6	84.2	84.2	84.2	74.9	74.9	70.1
75°	37.4	51.4	42.2	37.4	51.4	51.4	46.8	46.8	42.2	42.2	42.2
77.5°	37.4	28.1	28.1	28.1	28.1	28.1	28.1	28.1	23.3	28.1	23.3
80°	18.7	18.7	18.7	14.1	18.7	18.7	23.3	18.7	18.7	14.1	23.3
82.5°	9.4	9.4	9.4	0.0	4.6	9.4	9.4	4.6	9.4	9.4	4.6
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: P248575

CATALOG NUMBER: LD8B150D010 ER8B150840 8LBSW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	9585.4	9585.4	9585.4	9585.4	9585.4	9585.4	9585.4	9585.4	9585.4	9585.4	9585.4
2.5°	9693.1	9688.4	9693.1	9697.7	9693.1	9688.4	9693.1	9697.7	9679.0	9674.4	9683.6
5°	9899.0	9899.0	9908.2	9913.1	9908.2	9899.0	9899.0	9880.3	9866.2	9852.2	9847.6
7.5°	10076.8	10086.3	10095.5	10100.1	10095.5	10086.3	10076.8	10048.7	10020.6	9997.2	9978.6
10°	10184.5	10198.6	10217.3	10226.5	10217.3	10198.6	10184.5	10151.8	10114.2	10076.8	10048.7
12.5°	10231.3	10245.4	10268.7	10264.1	10268.7	10245.4	10231.3	10184.5	10142.3	10090.9	10048.7
15°	10198.6	10217.3	10240.6	10250.0	10240.6	10217.3	10198.6	10151.8	10114.2	10058.1	10015.9
17.5°	10095.5	10123.6	10137.7	10151.8	10137.7	10123.6	10095.5	10058.1	10006.7	9959.9	9917.7
20°	9955.1	9973.9	9992.6	9997.2	9992.6	9973.9	9955.1	9913.1	9833.5	9824.1	9791.3
22.5°	9753.9	9768.0	9810.0	9795.9	9810.0	9768.0	9753.9	9716.4	9688.4	9636.8	9604.1
25°	9463.6	9477.7	9482.5	9487.1	9482.5	9477.7	9463.6	9430.9	9402.9	9365.4	9346.7
27.5°	8962.9	8962.9	8972.2	8977.0	8972.2	8962.9	8962.9	8939.4	8920.7	8902.0	8883.4
30°	8204.7	8204.7	8204.7	8228.2	8204.7	8204.7	8204.7	8200.0	8200.0	8204.7	8204.7
32.5°	7329.5	7320.0	7310.8	7320.0	7310.8	7320.0	7329.5	7334.1	7329.5	7343.5	7366.8
35°	6337.1	6332.5	6346.6	6327.9	6346.6	6332.5	6337.1	6337.1	6356.0	6374.7	6379.3
37.5°	5387.0	5377.8	5396.4	5377.8	5396.4	5377.8	5387.0	5382.4	5377.8	5387.0	5373.1
40°	4483.9	4493.1	4493.1	4530.7	4493.1	4493.1	4483.9	4474.4	4441.7	4423.0	4404.3
42.5°	3617.9	3646.0	3636.6	3664.7	3636.6	3646.0	3617.9	3599.2	3561.7	3528.9	3501.0
45°	2798.8	2817.7	2817.7	2826.9	2817.7	2817.7	2798.8	2780.1	2747.3	2719.2	2700.5
47.5°	2148.2	2148.2	2148.2	2153.0	2148.2	2148.2	2148.2	2115.5	2106.2	2087.5	2064.0
50°	1633.5	1638.1	1642.9	1647.5	1642.9	1638.1	1633.5	1624.0	1619.4	1610.0	1605.3
52.5°	1254.3	1259.0	1249.7	1259.0	1249.7	1259.0	1254.3	1259.0	1244.9	1244.9	1240.3
55°	950.1	945.5	950.1	954.8	950.1	945.5	950.1	950.1	945.5	945.5	945.5
57.5°	697.4	687.9	687.9	687.9	687.9	687.9	697.4	692.8	706.8	697.4	702.0
60°	519.6	524.2	524.2	528.8	524.2	524.2	519.6	528.8	528.8	533.6	533.6
62.5°	383.8	397.8	388.4	397.8	388.4	397.8	383.8	388.4	388.4	393.2	397.8
65°	248.1	248.1	248.1	252.8	248.1	248.1	248.1	252.8	257.4	252.8	266.8
67.5°	168.6	173.2	182.6	177.8	182.6	173.2	168.6	173.2	173.2	187.3	182.6
70°	135.8	121.8	121.8	135.8	121.8	121.8	135.8	126.4	121.8	131.0	126.4
72.5°	79.6	70.1	79.6	79.6	79.6	70.1	79.6	70.1	74.9	74.9	84.2
75°	42.2	37.4	32.8	46.8	32.8	37.4	42.2	42.2	42.2	42.2	46.8
77.5°	28.1	23.3	32.8	32.8	32.8	23.3	28.1	23.3	28.1	23.3	28.1
80°	14.1	18.7	14.1	23.3	14.1	18.7	14.1	23.3	14.1	18.7	18.7
82.5°	4.6	9.4	9.4	9.4	9.4	9.4	4.6	4.6	9.4	9.4	4.6
85°	0.0	9.4	4.6	4.6	4.6	9.4	0.0	0.0	0.0	0.0	0.0
87.5°	4.6	0.0	0.0	4.6	0.0	0.0	4.6	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: P248575

CATALOG NUMBER: LD8B150D010 ER8B150840 8LBSW0H

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	9585.4	9585.4	9585.4	9585.4	9585.4	9585.4	9585.4	9585.4	9585.4	9585.4	9585.4
2.5°	9683.6	9669.6	9674.4	9646.2	9646.2	9636.8	9641.6	9618.1	9608.9	9599.4	9613.5
5°	9824.1	9800.7	9781.9	9739.9	9716.4	9688.4	9674.4	9636.8	9604.1	9575.9	9571.3
7.5°	9936.4	9884.9	9852.2	9795.9	9753.9	9721.2	9674.4	9622.7	9580.7	9543.2	9515.2
10°	9983.2	9931.7	9880.3	9810.0	9763.2	9702.3	9655.5	9590.0	9533.9	9482.5	9449.6
12.5°	9987.8	9922.3	9875.5	9795.9	9735.1	9669.6	9618.1	9543.2	9477.7	9426.2	9374.8
15°	9945.8	9884.9	9828.7	9744.5	9683.6	9622.7	9562.1	9482.5	9421.6	9360.7	9323.4
17.5°	9852.2	9795.9	9730.4	9650.9	9594.8	9538.6	9473.1	9407.6	9337.2	9271.7	9224.9
20°	9730.4	9669.6	9613.5	9533.9	9487.1	9426.2	9365.4	9295.2	9239.0	9173.5	9122.1
22.5°	9548.0	9491.7	9440.3	9393.5	9318.6	9271.7	9229.7	9150.2	9093.9	9033.0	8977.0
25°	9285.8	9229.7	9187.6	9131.3	9098.5	9047.1	9004.9	8934.8	8883.4	8827.1	8780.3
27.5°	8855.2	8822.5	8799.0	8766.2	8738.3	8714.8	8691.5	8635.2	8597.9	8546.4	8499.6
30°	8209.3	8204.7	8190.6	8176.5	8195.2	8195.2	8195.2	8186.0	8153.2	8115.7	8082.9
32.5°	7380.9	7390.3	7409.0	7423.1	7460.5	7502.7	7540.0	7558.7	7558.7	7535.4	7521.3
35°	6393.4	6407.5	6435.6	6473.0	6519.8	6571.2	6655.4	6674.3	6688.1	6688.1	6669.5
37.5°	5368.3	5363.7	5391.8	5424.6	5452.7	5490.1	5550.9	5565.0	5588.3	5579.1	5560.2
40°	4371.4	4348.1	4338.6	4348.1	4380.8	4366.7	4380.8	4371.4	4371.4	4338.6	4338.6
42.5°	3449.4	3421.4	3402.5	3388.7	3388.7	3355.7	3332.4	3309.1	3295.0	3271.5	3266.9
45°	2658.5	2625.6	2602.3	2592.8	2579.0	2536.8	2508.7	2480.5	2447.8	2438.5	2443.2
47.5°	2064.0	2031.3	2021.8	1998.5	1975.0	1951.7	1933.0	1900.3	1895.5	1876.8	1895.5
50°	1591.3	1582.0	1568.0	1558.5	1544.5	1525.8	1507.1	1488.4	1479.0	1479.0	1483.6
52.5°	1235.6	1240.3	1226.2	1212.1	1202.9	1202.9	1179.4	1174.8	1174.8	1156.1	1174.8
55°	945.5	940.7	945.5	936.1	936.1	922.0	922.0	907.9	907.9	893.9	903.3
57.5°	692.8	702.0	692.8	697.4	706.8	692.8	687.9	673.9	683.3	673.9	678.7
60°	538.3	538.3	538.3	533.6	533.6	528.8	528.8	524.2	524.2	514.8	524.2
62.5°	397.8	402.4	402.4	402.4	407.3	402.4	397.8	402.4	397.8	397.8	402.4
65°	262.2	266.8	266.8	262.2	271.4	262.2	266.8	271.4	276.1	271.4	276.1
67.5°	177.8	177.8	182.6	187.3	182.6	187.3	191.9	187.3	191.9	201.3	191.9
70°	131.0	135.8	135.8	131.0	126.4	131.0	126.4	140.4	140.4	140.4	149.7
72.5°	84.2	84.2	79.6	79.6	79.6	79.6	79.6	93.6	84.2	79.6	89.0
75°	46.8	51.4	51.4	37.4	42.2	51.4	37.4	42.2	56.3	46.8	56.3
77.5°	28.1	28.1	28.1	28.1	28.1	28.1	37.4	32.8	32.8	32.8	37.4
80°	23.3	18.7	18.7	14.1	18.7	18.7	18.7	28.1	23.3	23.3	28.1
82.5°	9.4	9.4	4.6	0.0	9.4	9.4	9.4	9.4	9.4	9.4	18.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	4.6	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.4	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: P248575

CATALOG NUMBER: LD8B150D010 ER8B150840 8LBSW0H

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	9585.4	9585.4	9585.4	9585.4	9585.4	9585.4	9585.4	9585.4	9585.4	9585.4	9585.4
2.5°	9575.9	9575.9	9571.3	9562.1	9543.2	9543.2	9538.6	9524.5	9515.2	9510.4	9510.4
5°	9529.1	9510.4	9491.7	9440.3	9440.3	9430.9	9402.9	9384.1	9374.8	9351.3	9342.1
7.5°	9487.1	9430.9	9398.1	9365.4	9323.4	9304.5	9271.7	9257.7	9224.9	9201.6	9187.6
10°	9384.1	9346.7	9304.5	9253.1	9220.3	9182.9	9145.4	9117.4	9075.2	9051.7	9033.0
12.5°	9313.9	9257.7	9220.3	9164.0	9108.0	9075.2	9023.8	8991.1	8948.9	8902.0	8873.9
15°	9248.4	9187.6	9136.1	9075.2	9014.4	8977.0	8916.1	8878.7	8817.9	8771.0	8738.3
17.5°	9150.2	9098.5	9042.5	8967.5	8911.5	8864.7	8799.0	8752.4	8696.1	8635.2	8602.5
20°	9047.1	8986.2	8930.2	8855.2	8799.0	8742.9	8677.4	8626.0	8560.3	8504.2	8466.9
22.5°	8911.5	8841.2	8794.4	8719.4	8653.9	8593.2	8532.4	8471.5	8410.6	8363.8	8321.6
25°	8714.8	8639.9	8588.4	8527.5	8466.9	8420.0	8345.1	8307.7	8246.9	8204.7	8162.5
27.5°	8433.9	8377.9	8331.0	8270.2	8218.7	8181.4	8125.1	8087.7	8036.1	7998.7	7966.0
30°	8022.2	7975.4	7933.2	7872.3	7835.0	7802.2	7750.6	7717.8	7680.5	7638.3	7629.0
32.5°	7469.9	7432.3	7390.3	7348.2	7320.0	7301.3	7259.2	7240.5	7203.1	7179.6	7156.3
35°	6636.7	6604.0	6580.6	6562.0	6552.5	6557.1	6547.9	6566.6	6575.8	6571.2	6575.8
37.5°	5546.3	5527.4	5536.9	5550.9	5597.8	5658.6	5714.7	5798.9	5855.1	5911.4	5962.8
40°	4329.4	4343.4	4380.8	4465.0	4586.7	4722.6	4848.9	5008.1	5167.2	5279.5	5382.4
42.5°	3266.9	3309.1	3402.5	3524.3	3706.9	3908.0	4104.7	4338.6	4530.7	4717.7	4848.9
45°	2457.2	2513.3	2635.0	2803.6	3004.7	3238.8	3486.9	3748.9	3978.4	4170.2	4315.3
47.5°	1914.3	1965.8	2087.5	2265.3	2513.3	2756.8	3014.2	3285.6	3524.3	3711.5	3837.9
50°	1511.7	1577.2	1684.9	1872.1	2120.3	2377.7	2644.5	2911.1	3135.9	3295.0	3407.4
52.5°	1188.8	1249.7	1352.6	1549.3	1802.0	2059.4	2307.3	2569.5	2766.0	2920.5	2995.5
55°	922.0	978.3	1085.8	1249.7	1488.4	1741.1	1989.1	2213.9	2396.3	2508.7	2579.0
57.5°	702.0	744.2	819.1	982.9	1198.3	1432.1	1642.9	1867.5	2008.0	2087.5	2134.1
60°	533.6	566.4	645.9	772.3	968.8	1170.1	1348.0	1516.5	1628.8	1694.3	1741.1
62.5°	402.4	440.0	496.1	603.8	753.4	917.4	1067.1	1193.5	1287.1	1329.3	1362.0
65°	276.1	304.2	346.4	430.6	556.9	673.9	791.0	884.6	945.5	992.3	1011.0
67.5°	205.9	224.6	248.1	313.6	402.4	496.1	575.6	641.1	706.8	725.5	758.3
70°	154.5	168.6	191.9	238.7	290.1	355.6	421.3	458.7	505.5	538.3	547.7
72.5°	98.3	102.9	126.4	154.5	196.5	238.7	280.9	313.6	341.8	360.4	369.7
75°	56.3	84.2	84.2	112.3	140.4	159.1	187.3	210.6	224.6	238.7	238.7
77.5°	37.4	51.4	56.3	70.1	84.2	107.7	131.0	145.1	159.1	163.8	163.8
80°	32.8	37.4	37.4	51.4	60.9	79.6	93.6	98.3	107.7	112.3	121.8
82.5°	14.1	18.7	23.3	37.4	42.2	42.2	56.3	60.9	70.1	74.9	74.9
85°	4.6	9.4	9.4	14.1	23.3	28.1	32.8	37.4	42.2	42.2	46.8
87.5°	4.6	4.6	0.0	4.6	9.4	9.4	18.7	18.7	18.7	28.1	28.1
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: P248575

CATALOG NUMBER: LD8B150D010 ER8B150840 8LBSW0H

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	9585.4	9585.4	9585.4	9585.4	9585.4	9585.4	9585.4
2.5°	9501.2	9505.8	9487.1	9482.5	9473.1	9477.7	9487.1
5°	9328.0	9332.6	9313.9	9295.2	9295.2	9290.4	9295.2
7.5°	9164.0	9168.9	9140.7	9131.3	9112.6	9117.4	9117.4
10°	9000.3	9000.3	8958.3	8953.5	8939.4	8934.8	8934.8
12.5°	8841.2	8827.1	8794.4	8775.7	8785.1	8757.0	8757.0
15°	8700.7	8677.4	8635.2	8621.2	8597.9	8588.4	8588.4
17.5°	8555.7	8537.0	8499.6	8471.5	8443.4	8438.7	8443.4
20°	8415.2	8396.5	8349.7	8331.0	8307.7	8307.7	8298.3
22.5°	8274.8	8256.1	8214.1	8200.0	8167.3	8167.3	8171.9
25°	8129.7	8115.7	8068.8	8059.6	8055.0	8036.1	8045.5
27.5°	7933.2	7923.8	7886.4	7872.3	7853.7	7849.0	7858.3
30°	7572.8	7558.7	7530.8	7516.7	7484.0	7488.6	7497.8
32.5°	7123.5	7104.8	7067.3	7053.2	7025.3	7015.8	7020.5
35°	6562.0	6547.9	6515.1	6515.1	6487.0	6477.6	6487.0
37.5°	5991.0	6004.8	5991.0	6004.8	5991.0	5986.1	5991.0
40°	5452.7	5504.1	5513.4	5565.0	5546.3	5574.3	5569.6
42.5°	4937.7	5021.9	5054.9	5096.9	5087.6	5106.3	5120.4
45°	4418.2	4488.5	4521.2	4549.4	4554.0	4563.4	4568.1
47.5°	3926.7	3983.0	3987.6	4020.4	4015.7	4015.7	4029.8
50°	3468.2	3505.6	3514.9	3538.4	3519.7	3510.2	3514.9
52.5°	3042.3	3079.7	3070.2	3079.7	3056.4	3046.9	3051.5
55°	2606.9	2625.6	2625.6	2625.6	2597.7	2597.7	2597.7
57.5°	2162.3	2167.1	2157.7	2162.3	2157.7	2129.5	2124.9
60°	1755.2	1755.2	1750.4	1755.2	1741.1	1727.1	1727.1
62.5°	1371.3	1380.7	1399.4	1380.7	1371.3	1380.7	1366.6
65°	1025.1	1043.8	1038.9	1048.4	1043.8	1043.8	1034.3
67.5°	772.3	776.9	781.6	786.4	786.4	786.4	786.4
70°	566.4	580.4	575.6	575.6	575.6	575.6	603.8
72.5°	379.1	397.8	393.2	402.4	402.4	411.9	402.4
75°	257.4	276.1	266.8	280.9	276.1	266.8	290.1
77.5°	173.2	182.6	187.3	191.9	187.3	182.6	187.3
80°	121.8	131.0	126.4	131.0	131.0	131.0	135.8
82.5°	74.9	89.0	84.2	89.0	84.2	89.0	89.0
85°	51.4	56.3	46.8	56.3	51.4	51.4	60.9
87.5°	32.8	28.1	28.1	32.8	28.1	32.8	28.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)