

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: P249053

Luminaire Tested: **LD8B175D010 ER8B175940 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249053
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: LD8B175D010 ER8B175940 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 4000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16171.0 lumens
Efficiency: N/A
Efficacy: 91.3 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

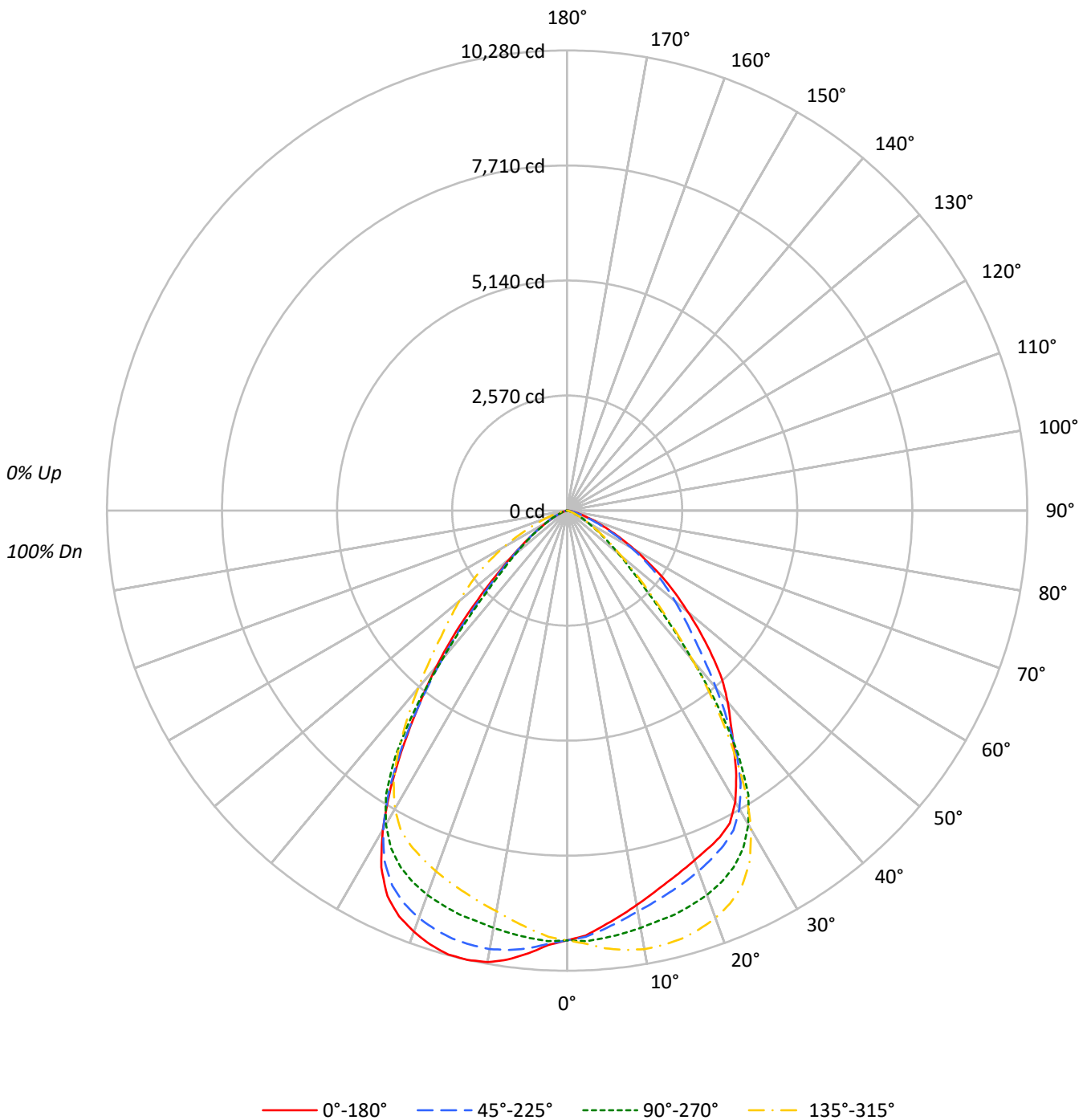
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	296035	296035	296035	296035
5°	288170	296729	307325	296729
10°	280199	296343	320707	296343
15°	274602	298101	327730	298101
20°	272731	299807	328570	299807
25°	274166	299205	323290	299205
30°	267389	288251	293431	288251
35°	244578	251456	238578	251456
40°	224549	174915	182660	174915
45°	199516	106707	123471	106707
50°	168879	71283	79160	71283
55°	139871	48638	51407	48638
60°	106681	32378	32662	32378
65°	75584	20175	18467	20175
70°	54519	13515	12262	13515
75°	34623	6708	5588	6708
80°	24151	5008	4138	5008
85°	21582	0	1628	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	913.8	5.7
10°-20°	2646.1	16.4
20°-30°	4006.7	24.8
30°-40°	4015.7	24.8
40°-50°	2521.7	15.6
50°-60°	1343.8	8.3
60°-70°	552.6	3.4
70°-80°	146.0	0.9
80°-90°	24.7	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°	7566.6	46.8
0°-40°	11582.3	71.6
0°-60°	15447.7	95.5
0°-90°	16171.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16171.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	9600	9600	9600	9600	9600	
5°	9310	9586	9928	9586	9310	878
15°	8602	9338	10266	9338	8602	2433
25°	8058	8794	9502	8794	8058	3696
35°	6497	6680	6338	6680	6497	4070
45°	4575	2447	2831	2447	4575	3519
55°	2602	905	956	905	2602	2320
65°	1036	276	253	276	1036	1075
75°	291	56	47	56	291	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°	9600.2	9600.2	9600.2	9600.2	9600.2	9600.2	9600.2	9600.2	9600.2	9600.2	9600.2
2.5°	9501.8	9492.4	9487.7	9497.2	9501.8	9520.5	9515.9	9525.2	9525.2	9530.0	9539.2
5°	9309.6	9304.8	9309.6	9309.6	9328.3	9347.1	9342.4	9356.5	9365.8	9389.3	9398.6
7.5°	9131.5	9131.5	9126.7	9145.4	9154.9	9183.1	9178.2	9201.8	9215.9	9239.2	9272.0
10°	8948.6	8948.6	8953.3	8967.3	8972.2	9014.2	9014.2	9047.0	9065.8	9089.3	9131.5
12.5°	8770.5	8770.5	8798.7	8789.3	8808.0	8840.8	8854.9	8887.7	8915.8	8962.7	9005.0
15°	8601.7	8601.7	8611.2	8634.5	8648.6	8690.9	8714.2	8751.8	8784.6	8831.5	8892.5
17.5°	8456.4	8451.8	8456.4	8484.6	8512.8	8550.2	8568.9	8615.8	8648.6	8709.6	8765.9
20°	8311.1	8320.6	8320.6	8343.9	8362.7	8409.5	8428.3	8480.0	8517.4	8573.5	8639.3
22.5°	8184.6	8179.9	8179.9	8212.7	8226.8	8268.9	8287.6	8334.5	8376.7	8423.6	8484.6
25°	8058.0	8048.5	8067.4	8072.1	8081.3	8128.2	8142.3	8175.1	8217.4	8259.6	8320.6
27.5°	7870.5	7861.2	7865.8	7884.5	7898.6	7936.1	7945.5	7978.3	8011.1	8048.5	8100.3
30°	7509.5	7500.2	7495.6	7528.4	7542.4	7570.4	7584.5	7640.8	7650.1	7692.4	7729.8
32.5°	7031.3	7026.7	7036.2	7064.1	7078.2	7115.8	7134.6	7167.4	7190.7	7214.2	7251.7
35°	6497.1	6487.6	6497.1	6525.2	6525.2	6558.0	6572.1	6586.0	6581.4	6586.0	6576.8
37.5°	6000.2	5995.4	6000.2	6014.1	6000.2	6014.1	6000.2	5972.1	5920.5	5864.2	5807.9
40°	5578.3	5582.9	5554.9	5573.6	5521.9	5512.7	5461.1	5390.7	5287.7	5175.2	5015.8
42.5°	5128.3	5114.2	5095.5	5104.8	5062.7	5029.7	4945.4	4856.4	4725.0	4537.7	4345.3
45°	4575.1	4570.5	4561.0	4556.4	4528.2	4495.4	4425.0	4322.0	4176.7	3984.5	3754.7
47.5°	4036.0	4022.0	4022.0	4026.6	3993.8	3989.2	3932.8	3843.9	3717.3	3529.8	3290.7
50°	3520.3	3515.7	3525.1	3543.8	3520.3	3511.0	3473.6	3412.6	3300.1	3140.8	2915.6
52.5°	3056.3	3051.6	3061.1	3084.4	3075.0	3084.4	3047.0	3000.1	2925.1	2770.3	2573.5
55°	2601.7	2601.7	2601.7	2629.7	2629.7	2629.7	2610.9	2583.0	2512.5	2400.1	2217.3
57.5°	2128.2	2132.8	2161.0	2165.6	2161.0	2170.4	2165.6	2137.5	2090.8	2011.1	1870.4
60°	1729.8	1729.8	1743.8	1757.9	1753.1	1757.9	1757.9	1743.8	1697.0	1631.4	1518.9
62.5°	1368.8	1382.8	1373.4	1382.8	1401.6	1382.8	1373.4	1364.1	1331.3	1289.1	1195.3
65°	1035.9	1045.4	1045.4	1050.0	1040.6	1045.4	1026.7	1012.6	993.9	947.0	886.0
67.5°	787.6	787.6	787.6	787.6	782.8	778.2	773.5	759.4	726.6	707.9	642.1
70°	604.7	576.5	576.5	576.5	576.5	581.3	567.3	548.5	539.1	506.3	459.4
72.5°	403.1	412.5	403.1	403.1	393.8	398.4	379.7	370.3	361.0	342.3	314.1
75°	290.6	267.2	276.5	281.3	267.2	276.5	257.8	239.1	239.1	225.0	210.9
77.5°	187.5	182.9	187.5	192.2	187.5	182.9	173.5	164.0	164.0	159.4	145.3
80°	136.0	131.2	131.2	131.2	126.6	131.2	121.9	121.9	112.5	107.9	98.4
82.5°	89.1	89.1	84.3	89.1	84.3	89.1	75.1	75.1	75.1	70.2	61.0
85°	61.0	51.5	51.5	56.3	46.9	56.3	51.5	46.9	42.3	42.3	37.4
87.5°	28.2	32.8	28.2	32.8	28.2	28.2	32.8	28.2	28.2	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°	9600.2	9600.2	9600.2	9600.2	9600.2	9600.2	9600.2	9600.2	9600.2	9600.2	9600.2
2.5°	9553.3	9558.0	9558.0	9576.9	9586.1	9590.8	9590.8	9628.4	9614.3	9623.7	9633.0
5°	9417.5	9445.5	9454.9	9454.9	9506.4	9525.2	9543.9	9586.1	9590.8	9618.9	9651.7
7.5°	9286.1	9318.9	9337.8	9379.9	9412.7	9445.5	9501.8	9530.0	9558.0	9595.6	9637.6
10°	9159.5	9197.1	9234.6	9267.4	9318.9	9361.2	9398.6	9464.2	9497.2	9548.7	9604.8
12.5°	9037.8	9089.3	9122.1	9178.2	9234.6	9272.0	9328.3	9389.3	9440.8	9492.4	9558.0
15°	8929.9	8990.9	9028.3	9089.3	9150.3	9201.8	9262.7	9337.8	9375.2	9436.2	9497.2
17.5°	8812.6	8878.4	8925.3	8981.4	9056.5	9112.6	9164.3	9239.2	9286.1	9351.7	9422.1
20°	8690.9	8756.5	8812.6	8868.9	8944.0	9000.1	9061.1	9136.2	9187.7	9253.3	9309.6
22.5°	8545.6	8606.5	8667.3	8732.9	8808.0	8854.9	8925.3	8990.9	9047.0	9108.0	9164.3
25°	8358.0	8433.1	8480.0	8540.7	8601.7	8653.2	8728.3	8793.9	8840.8	8897.1	8948.6
27.5°	8137.7	8194.0	8231.5	8283.0	8343.9	8390.8	8447.0	8512.8	8559.7	8611.2	8648.6
30°	7762.6	7814.3	7847.1	7884.5	7945.5	7987.8	8034.6	8095.4	8128.2	8165.9	8198.7
32.5°	7270.4	7312.6	7331.4	7359.5	7401.8	7443.8	7481.5	7533.0	7547.1	7570.4	7570.4
35°	6558.0	6567.3	6562.7	6572.1	6590.8	6614.2	6647.0	6679.8	6698.5	6698.5	6684.6
37.5°	5723.5	5667.4	5606.4	5559.5	5545.5	5536.0	5554.9	5568.8	5587.7	5597.0	5573.6
40°	4856.4	4729.9	4593.8	4471.9	4387.6	4350.2	4336.1	4345.3	4345.3	4378.1	4378.1
42.5°	4111.1	3914.1	3712.7	3529.8	3407.8	3314.2	3272.0	3272.0	3276.6	3300.1	3314.2
45°	3492.3	3243.8	3009.4	2807.9	2639.1	2517.2	2461.0	2446.9	2442.3	2451.6	2484.4
47.5°	3018.8	2761.1	2517.2	2268.8	2090.8	1968.8	1917.3	1898.4	1879.7	1898.4	1903.2
50°	2648.6	2381.3	2123.6	1875.0	1687.5	1579.6	1514.0	1485.9	1481.2	1481.2	1490.7
52.5°	2310.9	2062.6	1804.8	1551.7	1354.7	1251.6	1190.7	1176.6	1157.9	1176.6	1176.6
55°	1992.2	1743.8	1490.7	1251.6	1087.4	979.8	923.4	904.7	895.3	909.4	909.4
57.5°	1645.4	1434.4	1200.1	984.4	820.4	745.3	703.1	679.7	674.9	684.4	674.9
60°	1350.0	1172.0	970.3	773.5	646.9	567.3	534.5	525.0	515.6	525.0	525.0
62.5°	1068.7	918.8	754.6	604.7	496.8	440.7	403.1	403.1	398.4	398.4	403.1
65°	792.2	674.9	557.8	431.2	346.9	304.7	276.5	276.5	271.9	276.5	271.9
67.5°	576.5	496.8	403.1	314.1	248.5	225.0	206.3	192.2	201.6	192.2	187.5
70°	422.0	356.2	290.6	239.1	192.2	168.8	154.7	149.9	140.7	140.7	140.7
72.5°	281.3	239.1	196.8	154.7	126.6	103.0	98.4	89.1	79.7	84.3	93.8
75°	187.5	159.4	140.7	112.5	84.3	84.3	56.3	56.3	46.9	56.3	42.3
77.5°	131.2	107.9	84.3	70.2	56.3	51.5	37.4	37.4	32.8	32.8	32.8
80°	93.8	79.7	61.0	51.5	37.4	37.4	32.8	28.2	23.3	23.3	28.2
82.5°	56.3	42.3	42.3	37.4	23.3	18.7	14.1	18.7	9.5	9.5	9.5
85°	32.8	28.2	23.3	14.1	9.5	9.5	4.6	0.0	4.6	4.6	0.0
87.5°	18.7	9.5	9.5	4.6	0.0	4.6	4.6	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°	9600.2	9600.2	9600.2	9600.2	9600.2	9600.2	9600.2	9600.2	9600.2	9600.2	9600.2
2.5°	9656.6	9651.7	9661.2	9661.2	9689.4	9684.5	9698.6	9698.6	9689.4	9694.0	9712.7
5°	9689.4	9703.4	9731.4	9755.0	9797.0	9815.9	9839.3	9862.8	9867.4	9881.5	9895.6
7.5°	9689.4	9736.2	9769.0	9811.1	9867.4	9900.2	9951.8	9994.0	10012.7	10036.1	10064.2
10°	9670.4	9717.3	9778.3	9825.2	9895.6	9947.1	9998.6	10064.2	10092.4	10129.8	10167.5
12.5°	9633.0	9684.5	9750.1	9811.1	9890.8	9937.7	10003.3	10064.2	10106.5	10158.0	10200.3
15°	9576.9	9637.6	9698.6	9759.6	9843.9	9900.2	9961.2	10031.4	10073.7	10129.8	10167.5
17.5°	9487.7	9553.3	9609.7	9665.8	9745.5	9811.1	9867.4	9933.0	9975.3	10022.2	10073.7
20°	9379.9	9440.8	9501.8	9548.7	9628.4	9684.5	9745.5	9806.5	9839.3	9848.7	9928.4
22.5°	9244.0	9286.1	9333.0	9408.0	9454.9	9506.4	9562.8	9618.9	9651.7	9703.4	9731.4
25°	9018.9	9061.1	9112.6	9145.4	9201.8	9244.0	9300.2	9361.2	9379.9	9417.5	9445.5
27.5°	8704.9	8728.3	8751.8	8779.8	8812.6	8836.1	8868.9	8897.1	8915.8	8934.5	8953.3
30°	8207.9	8207.9	8207.9	8189.2	8203.3	8217.4	8222.0	8217.4	8217.4	8212.7	8212.7
32.5°	7551.7	7514.3	7472.0	7434.6	7420.5	7401.8	7392.3	7378.2	7354.9	7340.8	7345.4
35°	6665.7	6581.4	6529.9	6483.0	6445.5	6417.4	6403.3	6389.2	6384.6	6365.9	6347.0
37.5°	5559.5	5498.6	5461.1	5433.0	5400.2	5372.0	5376.6	5381.5	5395.3	5386.1	5390.7
40°	4387.6	4373.5	4387.6	4354.8	4345.3	4354.8	4378.1	4411.1	4429.8	4448.6	4481.4
42.5°	3337.6	3360.9	3393.9	3393.9	3407.8	3426.7	3454.7	3506.4	3534.4	3567.2	3604.8
45°	2512.5	2540.7	2583.0	2596.9	2606.3	2629.7	2662.7	2704.7	2723.4	2751.6	2784.4
47.5°	1936.0	1954.7	1978.1	2001.6	2025.0	2034.4	2067.2	2067.2	2090.8	2109.5	2118.7
50°	1509.4	1528.1	1546.8	1560.9	1570.4	1584.5	1593.7	1607.8	1612.4	1621.9	1626.5
52.5°	1181.2	1204.8	1204.8	1214.0	1228.1	1242.2	1237.6	1242.2	1246.8	1246.8	1260.9
55°	923.4	923.4	937.5	937.5	947.0	942.2	947.0	947.0	947.0	947.0	951.6
57.5°	689.0	693.8	707.9	698.5	693.8	703.1	693.8	703.1	698.5	707.9	693.8
60°	529.6	529.6	534.5	534.5	539.1	539.1	539.1	534.5	534.5	529.6	529.6
62.5°	398.4	403.1	407.9	403.1	403.1	403.1	398.4	398.4	393.8	389.0	389.0
65°	267.2	262.6	271.9	262.6	267.2	267.2	262.6	267.2	253.1	257.8	253.1
67.5°	192.2	187.5	182.9	187.5	182.9	178.1	178.1	182.9	187.5	173.5	173.5
70°	126.6	131.2	126.6	131.2	136.0	136.0	131.2	126.6	131.2	121.9	126.6
72.5°	79.7	79.7	79.7	79.7	79.7	84.3	84.3	84.3	75.1	75.1	70.2
75°	37.4	51.5	42.3	37.4	51.5	51.5	46.9	46.9	42.3	42.3	42.3
77.5°	37.4	28.2	28.2	28.2	28.2	28.2	28.2	28.2	23.3	28.2	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°	9.5	9.5	9.5	0.0	4.6	9.5	9.5	4.6	9.5	9.5	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: P249053

CATALOG NUMBER: LD8B175D010 ER8B175940 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	9600.2	9600.2	9600.2	9600.2	9600.2	9600.2	9600.2	9600.2	9600.2	9600.2	9600.2
2.5°	9708.1	9703.4	9708.1	9712.7	9708.1	9703.4	9708.1	9712.7	9694.0	9689.4	9698.6
5°	9914.3	9914.3	9923.6	9928.4	9923.6	9914.3	9914.3	9895.6	9881.5	9867.4	9862.8
7.5°	10092.4	10101.9	10111.1	10115.8	10111.1	10101.9	10092.4	10064.2	10036.1	10012.7	9994.0
10°	10200.3	10214.4	10233.1	10242.3	10233.1	10214.4	10200.3	10167.5	10129.8	10092.4	10064.2
12.5°	10247.2	10261.2	10284.6	10280.0	10284.6	10261.2	10247.2	10200.3	10158.0	10106.5	10064.2
15°	10214.4	10233.1	10256.4	10265.9	10256.4	10233.1	10214.4	10167.5	10129.8	10073.7	10031.4
17.5°	10111.1	10139.3	10153.4	10167.5	10153.4	10139.3	10111.1	10073.7	10022.2	9975.3	9933.0
20°	9970.5	9989.4	10008.1	10012.7	10008.1	9989.4	9970.5	9928.4	9848.7	9839.3	9806.5
22.5°	9769.0	9783.1	9825.2	9811.1	9825.2	9783.1	9769.0	9731.4	9703.4	9651.7	9618.9
25°	9478.3	9492.4	9497.2	9501.8	9497.2	9492.4	9478.3	9445.5	9417.5	9379.9	9361.2
27.5°	8976.8	8976.8	8986.1	8990.9	8986.1	8976.8	8976.8	8953.3	8934.5	8915.8	8897.1
30°	8217.4	8217.4	8217.4	8240.9	8217.4	8217.4	8217.4	8212.7	8212.7	8217.4	8217.4
32.5°	7340.8	7331.4	7322.1	7331.4	7322.1	7331.4	7340.8	7345.4	7340.8	7354.9	7378.2
35°	6347.0	6342.3	6356.4	6337.7	6356.4	6342.3	6347.0	6347.0	6365.9	6384.6	6389.2
37.5°	5395.3	5386.1	5404.8	5386.1	5404.8	5386.1	5395.3	5390.7	5386.1	5395.3	5381.5
40°	4490.8	4500.1	4500.1	4537.7	4500.1	4500.1	4490.8	4481.4	4448.6	4429.8	4411.1
42.5°	3623.5	3651.7	3642.2	3670.4	3642.2	3651.7	3623.5	3604.8	3567.2	3534.4	3506.4
45°	2803.1	2822.0	2822.0	2831.3	2822.0	2822.0	2803.1	2784.4	2751.6	2723.4	2704.7
47.5°	2151.5	2151.5	2151.5	2156.4	2151.5	2151.5	2151.5	2118.7	2109.5	2090.8	2067.2
50°	1636.0	1640.6	1645.4	1650.1	1645.4	1640.6	1636.0	1626.5	1621.9	1612.4	1607.8
52.5°	1256.3	1260.9	1251.6	1260.9	1251.6	1260.9	1256.3	1260.9	1246.8	1246.8	1242.2
55°	951.6	947.0	951.6	956.2	951.6	947.0	951.6	951.6	947.0	947.0	947.0
57.5°	698.5	689.0	689.0	689.0	689.0	689.0	698.5	693.8	707.9	698.5	703.1
60°	520.4	525.0	525.0	529.6	525.0	525.0	520.4	529.6	529.6	534.5	534.5
62.5°	384.3	398.4	389.0	398.4	389.0	398.4	384.3	389.0	389.0	393.8	398.4
65°	248.5	248.5	248.5	253.1	248.5	248.5	248.5	253.1	257.8	253.1	267.2
67.5°	168.8	173.5	182.9	178.1	182.9	173.5	168.8	173.5	173.5	187.5	182.9
70°	136.0	121.9	121.9	136.0	121.9	121.9	136.0	126.6	121.9	131.2	126.6
72.5°	79.7	70.2	79.7	79.7	79.7	70.2	79.7	70.2	75.1	75.1	84.3
75°	42.3	37.4	32.8	46.9	32.8	37.4	42.3	42.3	42.3	42.3	46.9
77.5°	28.2	23.3	32.8	32.8	32.8	23.3	28.2	23.3	28.2	23.3	28.2
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	9.5	9.5	9.5	9.5	9.5	4.6	4.6	9.5	9.5	4.6
85°	0.0	9.5	4.6	4.6	4.6	9.5	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: P249053

CATALOG NUMBER: LD8B175D010 ER8B175940 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	9600.2	9600.2	9600.2	9600.2	9600.2	9600.2	9600.2	9600.2	9600.2	9600.2	9600.2
2.5°	9698.6	9684.5	9689.4	9661.2	9661.2	9651.7	9656.6	9633.0	9623.7	9614.3	9628.4
5°	9839.3	9815.9	9797.0	9755.0	9731.4	9703.4	9689.4	9651.7	9618.9	9590.8	9586.1
7.5°	9951.8	9900.2	9867.4	9811.1	9769.0	9736.2	9689.4	9637.6	9595.6	9558.0	9530.0
10°	9998.6	9947.1	9895.6	9825.2	9778.3	9717.3	9670.4	9604.8	9548.7	9497.2	9464.2
12.5°	10003.3	9937.7	9890.8	9811.1	9750.1	9684.5	9633.0	9558.0	9492.4	9440.8	9389.3
15°	9961.2	9900.2	9843.9	9759.6	9698.6	9637.6	9576.9	9497.2	9436.2	9375.2	9337.8
17.5°	9867.4	9811.1	9745.5	9665.8	9609.7	9553.3	9487.7	9422.1	9351.7	9286.1	9239.2
20°	9745.5	9684.5	9628.4	9548.7	9501.8	9440.8	9379.9	9309.6	9253.3	9187.7	9136.2
22.5°	9562.8	9506.4	9454.9	9408.0	9333.0	9286.1	9244.0	9164.3	9108.0	9047.0	8990.9
25°	9300.2	9244.0	9201.8	9145.4	9112.6	9061.1	9018.9	8948.6	8897.1	8840.8	8793.9
27.5°	8868.9	8836.1	8812.6	8779.8	8751.8	8728.3	8704.9	8648.6	8611.2	8559.7	8512.8
30°	8222.0	8217.4	8203.3	8189.2	8207.9	8207.9	8207.9	8198.7	8165.9	8128.2	8095.4
32.5°	7392.3	7401.8	7420.5	7434.6	7472.0	7514.3	7551.7	7570.4	7570.4	7547.1	7533.0
35°	6403.3	6417.4	6445.5	6483.0	6529.9	6581.4	6665.7	6684.6	6698.5	6698.5	6679.8
37.5°	5376.6	5372.0	5400.2	5433.0	5461.1	5498.6	5559.5	5573.6	5597.0	5587.7	5568.8
40°	4378.1	4354.8	4345.3	4354.8	4387.6	4373.5	4387.6	4378.1	4378.1	4345.3	4345.3
42.5°	3454.7	3426.7	3407.8	3393.9	3393.9	3360.9	3337.6	3314.2	3300.1	3276.6	3272.0
45°	2662.7	2629.7	2606.3	2596.9	2583.0	2540.7	2512.5	2484.4	2451.6	2442.3	2446.9
47.5°	2067.2	2034.4	2025.0	2001.6	1978.1	1954.7	1936.0	1903.2	1898.4	1879.7	1898.4
50°	1593.7	1584.5	1570.4	1560.9	1546.8	1528.1	1509.4	1490.7	1481.2	1481.2	1485.9
52.5°	1237.6	1242.2	1228.1	1214.0	1204.8	1204.8	1181.2	1176.6	1176.6	1157.9	1176.6
55°	947.0	942.2	947.0	937.5	937.5	923.4	923.4	909.4	909.4	895.3	904.7
57.5°	693.8	703.1	693.8	698.5	707.9	693.8	689.0	674.9	684.4	674.9	679.7
60°	539.1	539.1	539.1	534.5	534.5	529.6	529.6	525.0	525.0	515.6	525.0
62.5°	398.4	403.1	403.1	403.1	407.9	403.1	398.4	403.1	398.4	398.4	403.1
65°	262.6	267.2	267.2	262.6	271.9	262.6	267.2	271.9	276.5	271.9	276.5
67.5°	178.1	178.1	182.9	187.5	182.9	187.5	192.2	187.5	192.2	201.6	192.2
70°	131.2	136.0	136.0	131.2	126.6	131.2	126.6	140.7	140.7	140.7	149.9
72.5°	84.3	84.3	79.7	79.7	79.7	79.7	79.7	93.8	84.3	79.7	89.1
75°	46.9	51.5	51.5	37.4	42.3	51.5	37.4	42.3	56.3	46.9	56.3
77.5°	28.2	28.2	28.2	28.2	28.2	28.2	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	28.2	23.3	23.3	28.2
82.5°	9.5	9.5	4.6	0.0	9.5	9.5	9.5	9.5	9.5	9.5	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	9.5	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: P249053

CATALOG NUMBER: LD8B175D010 ER8B175940 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	9600.2	9600.2	9600.2	9600.2	9600.2	9600.2	9600.2	9600.2	9600.2	9600.2	9600.2
2.5°	9590.8	9590.8	9586.1	9576.9	9558.0	9558.0	9553.3	9539.2	9530.0	9525.2	9525.2
5°	9543.9	9525.2	9506.4	9454.9	9454.9	9445.5	9417.5	9398.6	9389.3	9365.8	9356.5
7.5°	9501.8	9445.5	9412.7	9379.9	9337.8	9318.9	9286.1	9272.0	9239.2	9215.9	9201.8
10°	9398.6	9361.2	9318.9	9267.4	9234.6	9197.1	9159.5	9131.5	9089.3	9065.8	9047.0
12.5°	9328.3	9272.0	9234.6	9178.2	9122.1	9089.3	9037.8	9005.0	8962.7	8915.8	8887.7
15°	9262.7	9201.8	9150.3	9089.3	9028.3	8990.9	8929.9	8892.5	8831.5	8784.6	8751.8
17.5°	9164.3	9112.6	9056.5	8981.4	8925.3	8878.4	8812.6	8765.9	8709.6	8648.6	8615.8
20°	9061.1	9000.1	8944.0	8868.9	8812.6	8756.5	8690.9	8639.3	8573.5	8517.4	8480.0
22.5°	8925.3	8854.9	8808.0	8732.9	8667.3	8606.5	8545.6	8484.6	8423.6	8376.7	8334.5
25°	8728.3	8653.2	8601.7	8540.7	8480.0	8433.1	8358.0	8320.6	8259.6	8217.4	8175.1
27.5°	8447.0	8390.8	8343.9	8283.0	8231.5	8194.0	8137.7	8100.3	8048.5	8011.1	7978.3
30°	8034.6	7987.8	7945.5	7884.5	7847.1	7814.3	7762.6	7729.8	7692.4	7650.1	7640.8
32.5°	7481.5	7443.8	7401.8	7359.5	7331.4	7312.6	7270.4	7251.7	7214.2	7190.7	7167.4
35°	6647.0	6614.2	6590.8	6572.1	6562.7	6567.3	6558.0	6576.8	6586.0	6581.4	6586.0
37.5°	5554.9	5536.0	5545.5	5559.5	5606.4	5667.4	5723.5	5807.9	5864.2	5920.5	5972.1
40°	4336.1	4350.2	4387.6	4471.9	4593.8	4729.9	4856.4	5015.8	5175.2	5287.7	5390.7
42.5°	3272.0	3314.2	3407.8	3529.8	3712.7	3914.1	4111.1	4345.3	4537.7	4725.0	4856.4
45°	2461.0	2517.2	2639.1	2807.9	3009.4	3243.8	3492.3	3754.7	3984.5	4176.7	4322.0
47.5°	1917.3	1968.8	2090.8	2268.8	2517.2	2761.1	3018.8	3290.7	3529.8	3717.3	3843.9
50°	1514.0	1579.6	1687.5	1875.0	2123.6	2381.3	2648.6	2915.6	3140.8	3300.1	3412.6
52.5°	1190.7	1251.6	1354.7	1551.7	1804.8	2062.6	2310.9	2573.5	2770.3	2925.1	3000.1
55°	923.4	979.8	1087.4	1251.6	1490.7	1743.8	1992.2	2217.3	2400.1	2512.5	2583.0
57.5°	703.1	745.3	820.4	984.4	1200.1	1434.4	1645.4	1870.4	2011.1	2090.8	2137.5
60°	534.5	567.3	646.9	773.5	970.3	1172.0	1350.0	1518.9	1631.4	1697.0	1743.8
62.5°	403.1	440.7	496.8	604.7	754.6	918.8	1068.7	1195.3	1289.1	1331.3	1364.1
65°	276.5	304.7	346.9	431.2	557.8	674.9	792.2	886.0	947.0	993.9	1012.6
67.5°	206.3	225.0	248.5	314.1	403.1	496.8	576.5	642.1	707.9	726.6	759.4
70°	154.7	168.8	192.2	239.1	290.6	356.2	422.0	459.4	506.3	539.1	548.5
72.5°	98.4	103.0	126.6	154.7	196.8	239.1	281.3	314.1	342.3	361.0	370.3
75°	56.3	84.3	84.3	112.5	140.7	159.4	187.5	210.9	225.0	239.1	239.1
77.5°	37.4	51.5	56.3	70.2	84.3	107.9	131.2	145.3	159.4	164.0	164.0
80°	32.8	37.4	37.4	51.5	61.0	79.7	93.8	98.4	107.9	112.5	121.9
82.5°	14.1	18.7	23.3	37.4	42.3	42.3	56.3	61.0	70.2	75.1	75.1
85°	4.6	9.5	9.5	14.1	23.3	28.2	32.8	37.4	42.3	42.3	46.9
87.5°	4.6	4.6	0.0	4.6	9.5	9.5	18.7	18.7	18.7	28.2	28.2
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: P249053

CATALOG NUMBER: LD8B175D010 ER8B175940 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	9600.2	9600.2	9600.2	9600.2	9600.2	9600.2	9600.2
2.5°	9515.9	9520.5	9501.8	9497.2	9487.7	9492.4	9501.8
5°	9342.4	9347.1	9328.3	9309.6	9309.6	9304.8	9309.6
7.5°	9178.2	9183.1	9154.9	9145.4	9126.7	9131.5	9131.5
10°	9014.2	9014.2	8972.2	8967.3	8953.3	8948.6	8948.6
12.5°	8854.9	8840.8	8808.0	8789.3	8798.7	8770.5	8770.5
15°	8714.2	8690.9	8648.6	8634.5	8611.2	8601.7	8601.7
17.5°	8568.9	8550.2	8512.8	8484.6	8456.4	8451.8	8456.4
20°	8428.3	8409.5	8362.7	8343.9	8320.6	8320.6	8311.1
22.5°	8287.6	8268.9	8226.8	8212.7	8179.9	8179.9	8184.6
25°	8142.3	8128.2	8081.3	8072.1	8067.4	8048.5	8058.0
27.5°	7945.5	7936.1	7898.6	7884.5	7865.8	7861.2	7870.5
30°	7584.5	7570.4	7542.4	7528.4	7495.6	7500.2	7509.5
32.5°	7134.6	7115.8	7078.2	7064.1	7036.2	7026.7	7031.3
35°	6572.1	6558.0	6525.2	6525.2	6497.1	6487.6	6497.1
37.5°	6000.2	6014.1	6000.2	6014.1	6000.2	5995.4	6000.2
40°	5461.1	5512.7	5521.9	5573.6	5554.9	5582.9	5578.3
42.5°	4945.4	5029.7	5062.7	5104.8	5095.5	5114.2	5128.3
45°	4425.0	4495.4	4528.2	4556.4	4561.0	4570.5	4575.1
47.5°	3932.8	3989.2	3993.8	4026.6	4022.0	4022.0	4036.0
50°	3473.6	3511.0	3520.3	3543.8	3525.1	3515.7	3520.3
52.5°	3047.0	3084.4	3075.0	3084.4	3061.1	3051.6	3056.3
55°	2610.9	2629.7	2629.7	2629.7	2601.7	2601.7	2601.7
57.5°	2165.6	2170.4	2161.0	2165.6	2161.0	2132.8	2128.2
60°	1757.9	1757.9	1753.1	1757.9	1743.8	1729.8	1729.8
62.5°	1373.4	1382.8	1401.6	1382.8	1373.4	1382.8	1368.8
65°	1026.7	1045.4	1040.6	1050.0	1045.4	1045.4	1035.9
67.5°	773.5	778.2	782.8	787.6	787.6	787.6	787.6
70°	567.3	581.3	576.5	576.5	576.5	576.5	604.7
72.5°	379.7	398.4	393.8	403.1	403.1	412.5	403.1
75°	257.8	276.5	267.2	281.3	276.5	267.2	290.6
77.5°	173.5	182.9	187.5	192.2	187.5	182.9	187.5
80°	121.9	131.2	126.6	131.2	131.2	131.2	136.0
82.5°	75.1	89.1	84.3	89.1	84.3	89.1	89.1
85°	51.5	56.3	46.9	56.3	51.5	51.5	61.0
87.5°	32.8	28.2	28.2	32.8	28.2	32.8	28.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)