

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: P248468

Luminaire Tested: **LD8B175D010 ER8B175840 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248468
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13956)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175840 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 4000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18612.0 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

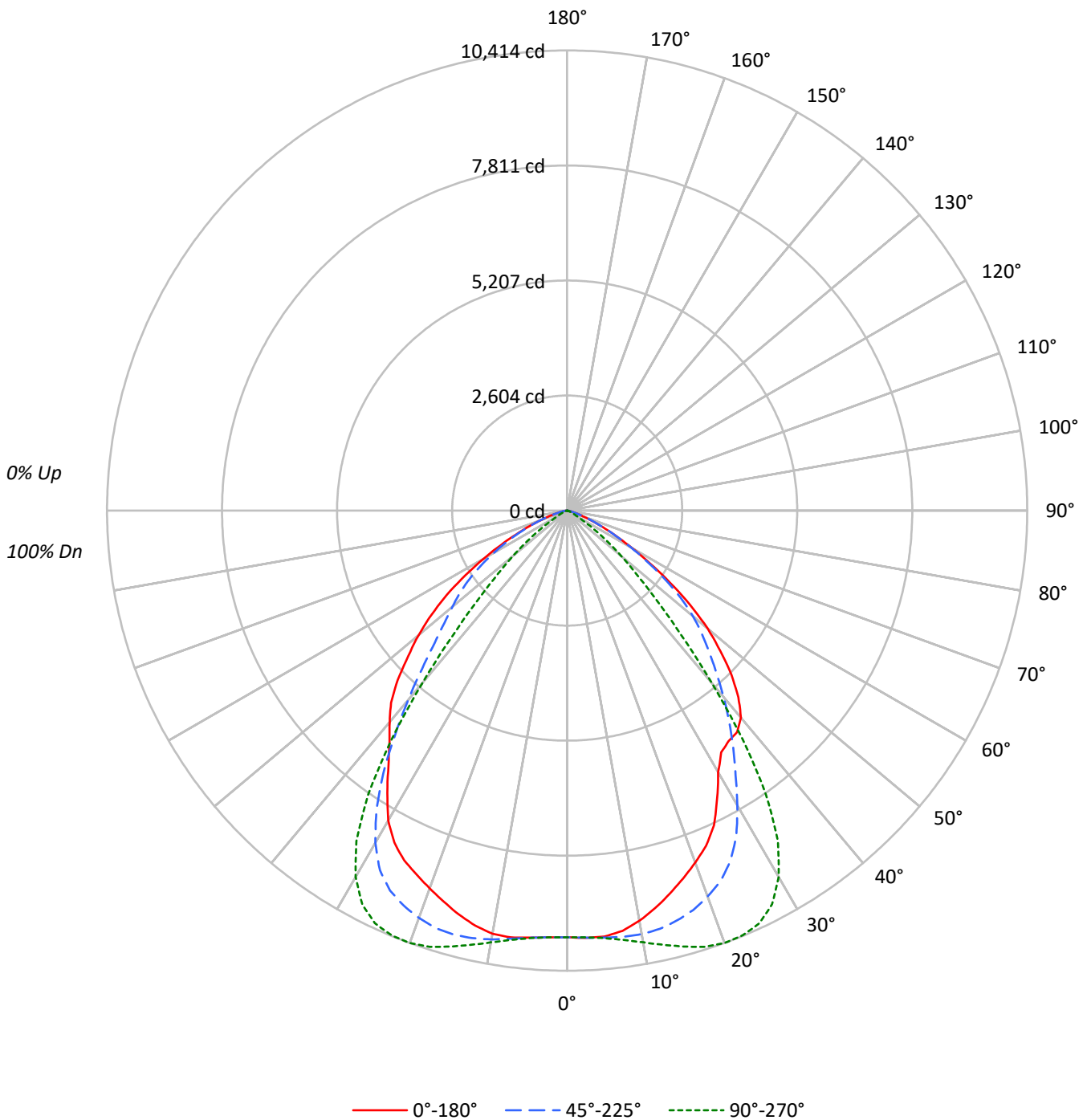
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90					90			
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62					62			
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56					56			
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50					50			
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45					45			
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41					41			
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38					38			
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34					34			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	297734	297734	297734
5°	299506	300617	300298
10°	295103	310672	304575
15°	286477	326070	302181
20°	278162	341732	298511
25°	267484	350482	297126
30°	243429	340877	288318
35°	239801	295368	265267
40°	246322	204852	251474
45°	229306	123811	236457
50°	198895	76459	210701
55°	152634	39950	178811
60°	103986	16115	134958
65°	64691	8223	93103
70°	35117	5085	56836
75°	18312	2431	33586
80°	8186	2735	18202
85°	5449	1804	16311



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	928.5	5.0
10°-20°	2750.7	14.8
20°-30°	4196.4	22.5
30°-40°	4379.0	23.5
40°-50°	3289.2	17.7
50°-60°	2023.8	10.9
60°-70°	823.6	4.4
70°-80°	194.0	1.0
80°-90°	26.7	0.1
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°	7875.6	42.3
0°-40°	12254.6	65.8
0°-60°	17567.6	94.4
0°-90°	18612.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18612.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9655	9655	9655	9655	9655	
5°	9676	9701	9712	9701	9701	915
15°	8974	9604	10214	9932	9466	2528
25°	7862	8743	10301	9486	8733	3574
35°	6370	6550	7846	7252	7047	4022
45°	5258	4551	2839	4238	5422	4012
55°	2839	2696	743	2696	3326	2552
65°	887	897	113	1204	1276	925
75°	154	154	20	272	282	185
85°	15	15	5	36	46	22
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°	9655.3	9655.3	9655.3	9655.3	9655.3	9655.3	9655.3	9655.3	9655.3	9655.3	9655.3
2.5°	9681.0	9665.5	9681.0	9681.0	9686.1	9675.8	9681.0	9686.1	9675.8	9675.8	9675.8
5°	9675.8	9665.5	9675.8	9670.7	9681.0	9681.0	9691.2	9691.2	9701.4	9701.4	9716.8
7.5°	9593.8	9573.4	9593.8	9609.2	9619.4	9639.9	9665.5	9686.1	9706.5	9727.1	9752.7
10°	9424.6	9424.6	9440.1	9470.8	9501.5	9537.4	9583.5	9634.8	9686.1	9732.1	9778.3
12.5°	9214.6	9199.2	9229.9	9270.9	9317.1	9373.5	9445.2	9522.1	9604.1	9696.3	9768.1
15°	8973.7	8958.3	8994.2	9035.2	9091.6	9173.6	9260.7	9363.2	9481.1	9604.1	9722.0
17.5°	8727.7	8722.5	8758.4	8814.8	8861.0	8948.0	9060.9	9183.8	9317.1	9481.1	9634.8
20°	8476.6	8471.5	8507.4	8553.5	8614.9	8697.0	8809.7	8953.1	9112.0	9296.6	9475.9
22.5°	8215.2	8220.3	8251.0	8302.3	8353.6	8440.6	8558.5	8702.1	8876.3	9076.2	9276.0
25°	7861.6	7836.0	7877.0	7928.3	8015.3	8087.0	8199.9	8353.6	8532.9	8743.1	8978.9
27.5°	7349.1	7343.9	7379.9	7425.9	7502.8	7589.9	7713.0	7871.8	8061.4	8292.1	8522.7
30°	6836.6	6846.8	6862.3	6908.4	6959.6	7046.7	7169.7	7303.0	7482.4	7702.7	7948.7
32.5°	6488.1	6488.1	6508.6	6539.4	6575.2	6621.4	6708.5	6805.8	6944.3	7098.0	7277.3
35°	6370.2	6349.8	6370.2	6375.3	6380.5	6390.8	6406.1	6436.9	6482.9	6549.6	6616.2
37.5°	6319.0	6303.6	6303.6	6283.2	6257.5	6226.7	6185.7	6139.6	6088.4	6021.7	5970.6
40°	6119.2	6108.9	6098.6	6078.2	6021.7	5960.3	5893.6	5786.0	5668.1	5504.1	5340.2
42.5°	5734.8	5724.5	5719.4	5678.4	5627.1	5555.4	5478.5	5365.8	5217.2	5007.0	4771.3
45°	5258.2	5237.6	5222.3	5186.4	5150.5	5089.0	5017.3	4914.7	4766.1	4550.9	4269.0
47.5°	4704.7	4694.4	4689.2	4673.9	4638.1	4602.1	4556.1	4474.1	4340.8	4135.7	3843.7
50°	4146.0	4125.6	4135.7	4130.7	4115.3	4089.7	4058.9	4002.6	3900.0	3715.5	3449.1
52.5°	3505.4	3505.4	3500.3	3515.7	3520.8	3515.7	3520.8	3459.3	3372.2	3233.8	3008.3
55°	2839.1	2839.1	2854.6	2875.1	2895.6	2900.7	2895.6	2870.0	2808.4	2695.7	2495.8
57.5°	2213.9	2203.7	2234.5	2265.2	2285.7	2306.2	2290.8	2270.3	2234.5	2142.2	1988.4
60°	1686.1	1686.1	1706.5	1727.1	1747.5	1768.1	1763.0	1757.8	1727.1	1665.5	1542.6
62.5°	1240.2	1245.3	1245.3	1260.7	1281.2	1301.8	1317.1	1301.8	1286.3	1245.3	1163.3
65°	886.6	881.4	886.6	902.0	917.4	937.8	948.1	943.0	927.6	896.8	835.4
67.5°	594.5	589.4	609.8	615.0	625.2	645.8	640.7	645.8	640.7	615.0	563.8
70°	389.5	379.2	389.5	384.3	399.8	404.9	415.1	420.2	415.1	399.8	384.3
72.5°	240.9	235.7	240.9	246.0	251.2	256.2	266.5	266.5	261.3	251.2	230.6
75°	153.7	138.3	143.5	133.3	143.5	143.5	153.7	158.9	153.7	153.7	143.5
77.5°	92.3	92.3	92.3	92.3	92.3	92.3	92.3	97.4	102.5	92.3	87.2
80°	46.1	46.1	51.3	51.3	51.3	56.4	51.3	51.3	51.3	56.4	41.0
82.5°	35.9	30.7	30.7	30.7	35.9	30.7	30.7	30.7	30.7	30.7	30.7
85°	15.4	20.4	15.4	10.3	15.4	15.4	20.4	15.4	15.4	15.4	20.4
87.5°	5.1	5.1	0.0	0.0	0.0	5.1	0.0	5.1	5.1	10.3	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: P248468

CATALOG NUMBER: LD8B175D010 ER8B175840 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	9655.3	9655.3	9655.3	9655.3	9655.3	9655.3	9655.3	9655.3	9655.3	9655.3	9655.3
2.5°	9681.0	9670.7	9670.7	9665.5	9675.8	9665.5	9670.7	9665.5	9665.5	9675.8	9665.5
5°	9716.8	9722.0	9711.7	9706.5	9722.0	9722.0	9722.0	9711.7	9711.7	9716.8	9711.7
7.5°	9768.1	9778.3	9783.4	9788.5	9798.8	9804.0	9804.0	9798.8	9793.7	9809.1	9788.5
10°	9824.4	9839.8	9870.6	9886.0	9911.6	9911.6	9921.8	9921.8	9911.6	9921.8	9916.7
12.5°	9804.0	9896.1	9947.4	9983.3	10019.2	10049.9	10060.2	10065.3	10060.2	10080.7	10060.2
15°	9839.8	9916.7	9998.7	10060.2	10126.7	10162.6	10172.9	10213.9	10224.2	10229.3	10198.6
17.5°	9783.4	9921.8	10008.9	10101.2	10198.6	10265.2	10326.6	10352.3	10357.5	10367.6	10326.6
20°	9655.3	9809.1	9942.3	10075.6	10188.3	10290.8	10342.1	10413.8	10393.3	10434.3	10377.9
22.5°	9481.1	9655.3	9824.4	9998.7	10116.6	10239.6	10347.2	10398.4	10424.1	10424.1	10362.5
25°	9204.3	9409.3	9593.8	9773.1	9952.6	10101.2	10224.2	10301.0	10316.5	10311.3	10239.6
27.5°	8773.8	8994.2	9209.5	9414.5	9634.8	9809.1	9952.6	10044.7	10070.4	10070.4	9993.6
30°	8179.3	8415.1	8625.2	8871.1	9096.7	9291.5	9491.4	9573.4	9619.4	9619.4	9532.4
32.5°	7472.1	7672.0	7866.7	8107.6	8353.6	8573.9	8763.5	8876.3	8932.7	8927.6	8850.7
35°	6703.4	6800.7	6949.4	7128.7	7349.1	7554.1	7738.5	7846.3	7943.6	7938.4	7866.7
37.5°	5934.6	5909.0	5924.4	5991.0	6129.3	6272.9	6416.4	6518.9	6600.8	6636.8	6621.4
40°	5181.3	5048.0	4919.9	4873.8	4884.0	4935.3	5012.1	5089.0	5181.3	5227.5	5247.9
42.5°	4504.8	4279.3	4053.7	3884.7	3787.3	3756.5	3792.4	3818.0	3874.4	3941.0	4007.7
45°	3961.6	3659.2	3361.9	3100.6	2936.6	2839.1	2818.7	2839.1	2870.0	2936.6	3023.7
47.5°	3515.7	3162.0	2829.0	2536.8	2295.9	2167.9	2132.0	2121.7	2152.5	2213.9	2331.8
50°	3121.0	2767.4	2398.5	2060.2	1809.1	1665.5	1614.4	1593.8	1629.7	1675.8	1783.4
52.5°	2690.5	2342.1	1962.8	1634.8	1373.5	1224.9	1168.5	1137.7	1158.2	1219.7	1327.3
55°	2224.2	1901.3	1557.9	1219.7	968.6	830.3	763.5	743.1	763.5	830.3	937.8
57.5°	1757.8	1486.2	1199.2	881.4	656.0	517.6	450.9	430.5	486.9	512.5	625.2
60°	1373.5	1153.2	907.1	645.8	450.9	343.3	276.8	261.3	287.0	333.1	425.3
62.5°	1030.1	891.7	697.0	461.2	333.1	220.3	184.5	169.2	184.5	220.3	292.2
65°	748.2	640.7	486.9	338.2	225.5	164.0	123.0	112.7	128.2	153.7	215.3
67.5°	512.5	430.5	338.2	235.7	153.7	102.5	87.2	87.2	92.3	112.7	158.9
70°	333.1	281.9	215.3	153.7	102.5	76.9	66.6	56.4	66.6	82.0	107.6
72.5°	210.2	179.3	138.3	107.6	76.9	56.4	46.1	41.0	51.3	61.4	82.0
75°	128.2	97.4	71.7	56.4	41.0	41.0	41.0	20.4	25.6	41.0	51.3
77.5°	76.9	66.6	56.4	46.1	35.9	20.4	20.4	20.4	25.6	30.7	46.1
80°	41.0	35.9	25.6	25.6	20.4	15.4	20.4	15.4	10.3	25.6	30.7
82.5°	25.6	20.4	20.4	20.4	25.6	10.3	15.4	10.3	15.4	20.4	15.4
85°	15.4	15.4	15.4	10.3	25.6	10.3	10.3	5.1	5.1	10.3	10.3
87.5°	0.0	5.1	5.1	0.0	5.1	0.0	5.1	5.1	5.1	5.1	5.1
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: P248468

CATALOG NUMBER: LD8B175D010 ER8B175840 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	9655.3	9655.3	9655.3	9655.3	9655.3	9655.3	9655.3	9655.3	9655.3	9655.3	9655.3
2.5°	9670.7	9665.5	9670.7	9665.5	9665.5	9665.5	9670.7	9670.7	9665.5	9665.5	9675.8
5°	9711.7	9711.7	9711.7	9706.5	9701.4	9701.4	9711.7	9711.7	9696.3	9711.7	9711.7
7.5°	9798.8	9783.4	9798.8	9778.3	9768.1	9773.1	9778.3	9768.1	9757.8	9763.0	9763.0
10°	9911.6	9896.1	9896.1	9880.8	9865.4	9855.1	9845.0	9819.3	9793.7	9788.5	9768.1
12.5°	10044.7	10019.2	10003.9	9973.0	9947.4	9911.6	9880.8	9839.8	9788.5	9752.7	9716.8
15°	10178.0	10137.0	10101.2	10049.9	9993.6	9932.0	9865.4	9798.8	9716.8	9645.1	9583.5
17.5°	10285.6	10229.3	10162.6	10080.7	9998.7	9906.4	9809.1	9711.7	9593.8	9501.5	9429.8
20°	10321.5	10239.6	10152.4	10044.7	9937.1	9809.1	9686.1	9557.9	9424.6	9327.3	9245.3
22.5°	10275.5	10178.0	10070.4	9957.7	9814.1	9675.8	9532.4	9383.6	9265.8	9132.6	9055.7
25°	10147.3	10029.4	9911.6	9778.3	9639.9	9486.2	9332.5	9178.7	9035.2	8963.4	8866.1
27.5°	9886.0	9757.8	9629.7	9491.4	9332.5	9178.7	9019.9	8871.1	8748.2	8650.8	8594.5
30°	9424.6	9276.0	9127.4	8978.9	8840.4	8681.5	8532.9	8409.9	8286.9	8210.0	8153.7
32.5°	8717.4	8584.2	8435.6	8292.1	8164.0	8030.7	7907.7	7800.1	7713.0	7661.7	7620.7
35°	7764.2	7631.0	7518.2	7415.8	7308.1	7251.7	7174.9	7113.3	7077.4	7057.0	7051.9
37.5°	6564.9	6488.1	6452.2	6431.8	6411.2	6395.9	6406.1	6431.8	6452.2	6488.1	6529.1
40°	5283.8	5350.3	5370.9	5442.6	5509.2	5596.4	5693.8	5806.5	5898.7	6016.6	6098.6
42.5°	4115.3	4238.3	4381.8	4535.5	4699.5	4858.4	5053.2	5232.5	5396.5	5545.1	5673.2
45°	3162.0	3351.6	3566.9	3787.3	4007.7	4238.3	4474.1	4694.4	4889.1	5048.0	5181.3
47.5°	2465.1	2675.2	2952.0	3223.6	3490.1	3761.7	4023.0	4253.6	4417.6	4571.4	4689.2
50°	1952.6	2193.5	2495.8	2808.4	3100.6	3387.5	3664.2	3879.6	4043.6	4166.6	4253.6
52.5°	1511.8	1798.8	2106.3	2434.3	2747.0	3059.6	3315.8	3515.7	3648.9	3756.5	3823.1
55°	1127.5	1409.3	1737.4	2075.6	2393.3	2695.7	2936.6	3110.9	3228.7	3290.2	3326.0
57.5°	814.8	1071.1	1399.1	1737.4	2024.3	2311.3	2506.1	2665.0	2731.5	2767.4	2782.8
60°	594.5	830.3	1122.3	1414.5	1686.1	1916.7	2085.9	2193.5	2244.7	2265.2	2260.0
62.5°	435.6	640.7	891.7	1137.7	1358.1	1547.7	1681.0	1752.7	1778.4	1788.5	1773.2
65°	333.1	491.9	707.2	896.8	1066.0	1204.3	1301.8	1347.9	1363.2	1358.1	1347.9
67.5°	246.0	369.0	527.9	671.4	794.4	902.0	953.3	994.3	1004.4	989.1	973.7
70°	174.3	271.6	384.3	481.8	573.9	635.5	691.8	697.0	697.0	691.8	681.7
72.5°	123.0	189.6	261.3	328.0	384.3	430.5	450.9	466.4	461.2	456.1	445.9
75°	82.0	117.9	189.6	205.0	256.2	271.6	292.2	292.2	297.2	281.9	281.9
77.5°	51.3	82.0	112.7	133.3	153.7	174.3	184.5	184.5	189.6	184.5	184.5
80°	30.7	51.3	61.4	92.3	92.3	107.6	112.7	117.9	107.6	123.0	107.6
82.5°	20.4	30.7	46.1	46.1	56.4	66.6	66.6	71.7	71.7	66.6	66.6
85°	15.4	20.4	25.6	30.7	30.7	35.9	30.7	30.7	35.9	41.0	35.9
87.5°	5.1	10.3	5.1	10.3	10.3	20.4	15.4	15.4	15.4	20.4	20.4
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: P248468

CATALOG NUMBER: LD8B175D010 ER8B175840 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	9655.3	9655.3	9655.3	9655.3
2.5°	9665.5	9670.7	9665.5	9665.5
5°	9711.7	9706.5	9711.7	9701.4
7.5°	9747.5	9747.5	9742.4	9742.4
10°	9747.5	9727.1	9727.1	9727.1
12.5°	9670.7	9645.1	9629.7	9619.4
15°	9537.4	9491.4	9470.8	9465.6
17.5°	9363.2	9322.2	9296.6	9281.2
20°	9163.3	9122.3	9091.6	9096.7
22.5°	8989.0	8943.0	8922.4	8912.1
25°	8814.8	8758.4	8743.1	8732.8
27.5°	8532.9	8502.2	8486.8	8471.5
30°	8102.4	8087.0	8061.4	8097.3
32.5°	7605.4	7579.7	7559.2	7574.6
35°	7057.0	7041.6	7057.0	7046.7
37.5°	6554.8	6570.1	6590.7	6600.8
40°	6160.2	6216.5	6237.0	6247.2
42.5°	5765.5	5832.1	5873.1	5898.7
45°	5278.6	5345.2	5391.4	5422.2
47.5°	4776.4	4832.8	4878.9	4873.8
50°	4320.3	4351.0	4371.5	4392.1
52.5°	3859.0	3859.0	3864.1	3864.1
55°	3336.3	3326.0	3320.9	3326.0
57.5°	2762.3	2752.1	2747.0	2731.5
60°	2239.6	2208.9	2188.3	2188.3
62.5°	1752.7	1716.8	1701.5	1696.4
65°	1317.1	1311.9	1281.2	1276.0
67.5°	953.3	932.7	912.3	917.4
70°	671.4	640.7	640.7	630.4
72.5°	435.6	420.2	415.1	415.1
75°	271.6	271.6	261.3	281.9
77.5°	179.3	179.3	174.3	179.3
80°	107.6	107.6	107.6	102.5
82.5°	66.6	71.7	66.6	66.6
85°	35.9	41.0	30.7	46.1
87.5°	20.4	25.6	20.4	25.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)