

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: P249314

Luminaire Tested: **LD8B175D010 ER8B175830 8LBDW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249314
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13957)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175830 8LBDW0GPH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17475.0 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

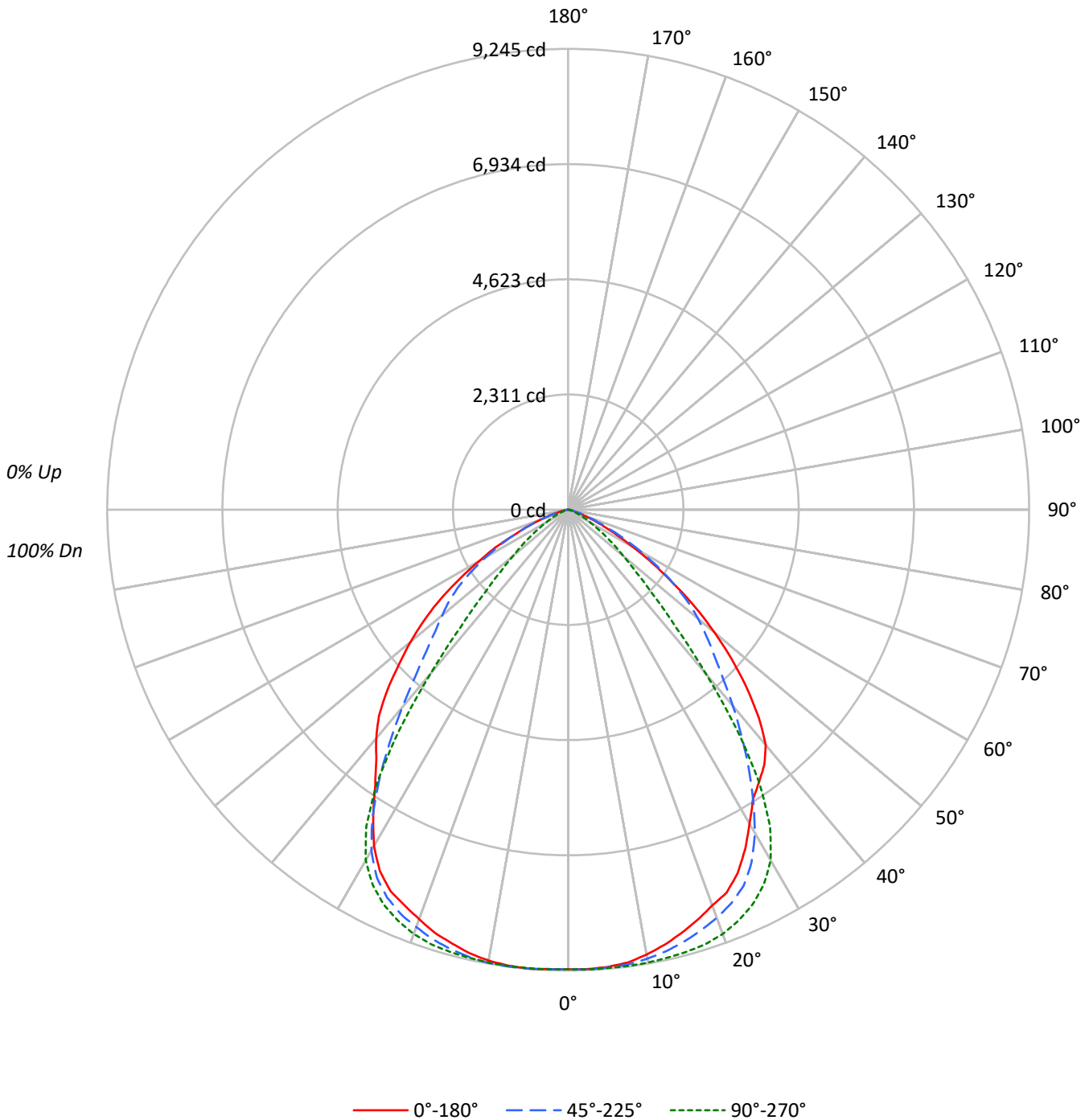
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90					90			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79					79			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70					70			
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62					62			
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55					55			
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50					50			
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45					45			
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41					41			
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37					37			
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34					34			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	284317	284317	284317
5°	284942	285709	286016
10°	283743	288856	287617
15°	280597	293082	287553
20°	277230	297202	286809
25°	273632	297544	287102
30°	258871	289176	277373
35°	251139	251324	253936
40°	248029	172923	241061
45°	221007	103812	224024
50°	183765	69090	198012
55°	137823	47627	167886
60°	93397	31743	126669
65°	56336	20591	87025
70°	31240	11162	53546
75°	14154	4718	27713
80°	12306	5274	19338
85°	14011	6970	19282



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	879.9	5.0
10°-20°	2555.4	14.6
20°-30°	3878.7	22.2
30°-40°	4073.8	23.3
40°-50°	3054.3	17.5
50°-60°	1959.7	11.2
60°-70°	838.3	4.8
70°-80°	198.1	1.1
80°-90°	36.8	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°	7314.1	41.9
0°-40°	11387.9	65.2
0°-60°	16401.8	93.9
0°-90°	17475.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17475.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9220	9220	9220	9220	9220	
5°	9205	9220	9230	9245	9240	874
15°	8790	8973	9181	9121	9007	2479
25°	8042	8324	8745	8587	8438	3674
35°	6671	6300	6676	6597	6746	4187
45°	5068	4142	2380	4024	5137	3881
55°	2564	2564	886	2672	3123	2325
65°	772	911	282	1173	1193	824
75°	119	138	40	238	233	173
85°	40	25	20	40	54	42
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°	9220.2	9220.2	9220.2	9220.2	9220.2	9220.2	9220.2	9220.2	9220.2	9220.2	9220.2
2.5°	9225.1	9235.0	9230.1	9230.1	9225.1	9230.1	9230.1	9240.0	9240.0	9230.1	9225.1
5°	9205.3	9215.2	9215.2	9205.3	9205.3	9230.1	9215.2	9225.1	9225.1	9220.2	9220.2
7.5°	9160.8	9160.8	9180.6	9165.8	9165.8	9180.6	9175.6	9185.5	9195.4	9200.4	9200.4
10°	9061.8	9071.7	9076.7	9076.7	9081.6	9096.4	9106.3	9126.2	9136.0	9145.9	9150.9
12.5°	8938.1	8952.9	8957.9	8952.9	8967.8	8987.5	9012.3	9037.1	9051.9	9071.7	9086.6
15°	8789.5	8789.5	8799.5	8814.4	8824.3	8854.0	8878.7	8908.3	8947.9	8972.8	8997.5
17.5°	8626.3	8636.2	8651.0	8651.0	8670.9	8720.3	8735.2	8779.7	8824.3	8849.0	8898.5
20°	8448.2	8458.0	8472.9	8482.8	8507.5	8547.1	8576.8	8616.4	8665.9	8710.5	8759.9
22.5°	8309.5	8289.8	8299.6	8309.5	8334.3	8369.0	8403.6	8453.0	8502.5	8547.1	8596.6
25°	8042.3	8047.2	8062.1	8071.9	8101.7	8131.4	8171.0	8230.3	8274.9	8324.4	8378.8
27.5°	7681.0	7686.0	7710.7	7710.7	7735.4	7784.9	7809.6	7859.2	7918.6	7968.0	8032.4
30°	7270.3	7280.1	7280.1	7299.9	7314.7	7339.5	7364.2	7413.8	7443.4	7488.0	7577.1
32.5°	6894.1	6903.9	6899.0	6894.1	6879.2	6874.3	6869.3	6879.2	6889.2	6903.9	6938.6
35°	6671.4	6646.6	6626.9	6592.2	6552.6	6503.1	6458.6	6399.2	6344.7	6300.2	6250.7
37.5°	6458.6	6453.6	6423.9	6374.4	6295.2	6206.2	6102.3	5973.6	5844.8	5706.3	5572.7
40°	6161.6	6146.7	6122.0	6052.8	5963.6	5854.8	5716.2	5557.8	5349.9	5137.1	4919.4
42.5°	5656.8	5661.7	5632.1	5577.6	5493.5	5389.5	5246.0	5072.8	4850.1	4597.7	4315.6
45°	5067.9	5067.9	5058.0	5013.4	4954.1	4869.9	4761.0	4617.5	4399.8	4142.3	3840.5
47.5°	4454.2	4459.1	4444.2	4434.4	4409.6	4355.2	4276.0	4167.2	4013.7	3766.2	3464.3
50°	3830.6	3830.6	3855.3	3850.4	3850.4	3830.6	3796.0	3731.6	3598.0	3400.0	3118.0
52.5°	3207.0	3216.9	3231.8	3251.6	3276.3	3315.9	3276.3	3246.6	3162.4	3009.0	2766.6
55°	2563.6	2573.5	2598.2	2632.9	2662.7	2702.3	2712.1	2712.1	2667.5	2563.6	2380.5
57.5°	2014.3	1999.4	2019.3	2048.9	2088.5	2128.1	2157.8	2192.4	2187.5	2118.2	1969.8
60°	1514.4	1519.4	1534.2	1564.0	1593.6	1628.3	1667.9	1697.5	1712.4	1677.8	1583.7
62.5°	1103.7	1103.7	1123.4	1153.1	1168.0	1217.5	1242.2	1257.1	1271.9	1266.9	1207.6
65°	772.1	781.9	791.8	806.7	821.5	851.2	866.1	895.8	905.7	910.6	866.1
67.5°	544.4	529.6	539.5	549.3	564.2	584.0	613.7	613.7	628.5	628.5	598.8
70°	346.5	346.5	351.4	366.2	376.1	381.1	391.0	400.8	415.7	410.8	410.8
72.5°	232.6	227.7	232.6	237.6	242.6	257.3	257.3	262.3	272.2	277.2	257.3
75°	118.8	123.8	133.6	128.7	143.5	133.6	138.5	153.4	148.5	138.5	138.5
77.5°	98.9	98.9	98.9	94.1	103.9	103.9	98.9	108.9	103.9	103.9	98.9
80°	69.3	74.2	69.3	64.3	69.3	64.3	64.3	64.3	64.3	64.3	59.3
82.5°	54.5	44.6	49.5	44.6	49.5	49.5	44.6	39.6	39.6	44.6	39.6
85°	39.6	29.7	34.6	34.6	29.7	29.7	29.7	29.7	29.7	24.7	24.7
87.5°	24.7	14.9	14.9	14.9	19.7	19.7	19.7	14.9	19.7	19.7	9.9
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°	9220.2	9220.2	9220.2	9220.2	9220.2	9220.2	9220.2	9220.2	9220.2	9220.2	9220.2
2.5°	9235.0	9230.1	9240.0	9235.0	9235.0	9230.1	9235.0	9230.1	9240.0	9220.2	9225.1
5°	9235.0	9225.1	9230.1	9235.0	9240.0	9230.1	9230.1	9230.1	9240.0	9230.1	9235.0
7.5°	9215.2	9210.2	9225.1	9235.0	9230.1	9225.1	9235.0	9230.1	9240.0	9235.0	9244.9
10°	9175.6	9180.6	9190.5	9205.3	9210.2	9215.2	9225.1	9225.1	9240.0	9220.2	9230.1
12.5°	9116.3	9136.0	9160.8	9170.6	9190.5	9190.5	9200.4	9205.3	9215.2	9210.2	9225.1
15°	9042.0	9066.7	9096.4	9121.2	9145.9	9160.8	9175.6	9180.6	9195.4	9180.6	9185.5
17.5°	8952.9	8982.6	9027.1	9056.8	9096.4	9111.3	9131.0	9141.0	9155.9	9145.9	9150.9
20°	8829.1	8863.9	8913.3	8957.9	8982.6	9017.2	9042.0	9056.8	9066.7	9056.8	9061.8
22.5°	8656.0	8705.5	8769.8	8804.4	8854.0	8883.6	8888.6	8923.2	8947.9	8923.2	8933.2
25°	8453.0	8502.5	8552.1	8626.3	8670.9	8705.5	8740.1	8745.1	8769.8	8764.8	8759.9
27.5°	8116.5	8180.9	8264.9	8324.4	8383.7	8438.2	8477.8	8487.6	8512.5	8502.5	8507.5
30°	7656.2	7725.6	7804.8	7898.8	7982.9	8037.3	8086.8	8121.4	8146.2	8131.4	8126.4
32.5°	7003.0	7072.3	7156.4	7250.4	7349.5	7428.5	7488.0	7532.6	7562.2	7552.3	7527.6
35°	6255.7	6275.5	6329.9	6404.2	6488.2	6572.4	6626.9	6676.3	6710.9	6720.8	6720.8
37.5°	5488.6	5424.3	5384.7	5384.7	5434.1	5468.7	5518.2	5547.9	5602.4	5622.1	5637.0
40°	4746.1	4597.7	4459.1	4355.2	4286.0	4281.0	4281.0	4295.8	4345.3	4409.6	4469.1
42.5°	4083.0	3845.4	3632.6	3439.6	3301.1	3221.9	3187.3	3192.2	3231.8	3291.2	3390.1
45°	3553.5	3256.5	2989.3	2756.6	2568.6	2444.8	2385.5	2380.5	2410.2	2479.4	2588.4
47.5°	3142.7	2825.9	2524.0	2256.8	2053.9	1920.2	1851.0	1831.2	1851.0	1915.3	2044.0
50°	2801.2	2474.6	2162.8	1885.6	1667.9	1529.3	1464.9	1440.2	1464.9	1519.4	1648.0
52.5°	2484.4	2147.9	1855.9	1588.7	1356.0	1237.2	1168.0	1153.1	1168.0	1232.3	1336.3
55°	2118.2	1831.2	1544.1	1276.8	1074.0	955.2	900.7	885.9	900.7	960.2	1069.0
57.5°	1757.0	1509.5	1257.1	1014.5	841.4	737.4	687.9	668.1	702.7	742.3	871.0
60°	1420.3	1222.5	1009.6	796.8	653.3	559.2	519.6	514.7	524.6	574.1	663.1
62.5°	1113.6	950.2	781.9	608.8	490.0	450.4	400.8	396.0	405.8	435.5	504.8
65°	801.8	697.9	569.2	445.4	351.4	296.9	277.2	282.2	292.0	311.8	376.1
67.5°	559.2	485.0	396.0	311.8	242.6	217.7	198.0	193.0	198.0	232.6	267.3
70°	376.1	331.6	267.3	237.6	168.3	133.6	138.5	123.8	143.5	143.5	173.2
72.5°	247.4	217.7	178.1	138.5	118.8	94.1	94.1	89.1	98.9	103.9	128.7
75°	128.7	98.9	98.9	69.3	49.5	24.7	44.6	39.6	34.6	39.6	49.5
77.5°	89.1	74.2	69.3	54.5	49.5	39.6	39.6	39.6	39.6	44.6	49.5
80°	54.5	54.5	39.6	34.6	29.7	24.7	29.7	29.7	29.7	29.7	34.6
82.5°	34.6	29.7	29.7	24.7	24.7	19.7	19.7	19.7	19.7	19.7	29.7
85°	29.7	19.7	19.7	14.9	19.7	34.6	14.9	19.7	19.7	19.7	14.9
87.5°	9.9	14.9	14.9	14.9	9.9	5.0	9.9	14.9	14.9	24.7	19.7
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	9220.2	9220.2	9220.2	9220.2	9220.2	9220.2	9220.2	9220.2	9220.2	9220.2	9220.2
2.5°	9235.0	9240.0	9240.0	9235.0	9235.0	9225.1	9244.9	9230.1	9235.0	9254.8	9240.0
5°	9244.9	9249.8	9249.8	9244.9	9244.9	9244.9	9249.8	9249.8	9244.9	9240.0	9249.8
7.5°	9264.7	9259.8	9259.8	9249.8	9249.8	9240.0	9249.8	9235.0	9244.9	9235.0	9249.8
10°	9240.0	9244.9	9240.0	9235.0	9235.0	9230.1	9230.1	9215.2	9220.2	9205.3	9215.2
12.5°	9225.1	9220.2	9220.2	9210.2	9200.4	9190.5	9185.5	9170.6	9170.6	9136.0	9150.9
15°	9185.5	9190.5	9175.6	9155.9	9145.9	9121.2	9111.3	9091.4	9071.7	9047.0	9051.9
17.5°	9150.9	9136.0	9116.3	9096.4	9056.8	9037.1	9017.2	8987.5	8977.6	8947.9	8938.1
20°	9047.0	9037.1	9012.3	8977.6	8952.9	8908.3	8888.6	8858.9	8834.1	8804.4	8789.5
22.5°	8913.3	8903.4	8873.7	8839.1	8799.5	8779.7	8759.9	8705.5	8680.7	8651.0	8646.0
25°	8745.1	8730.2	8700.5	8660.9	8641.1	8586.7	8566.8	8527.2	8517.4	8487.6	8482.8
27.5°	8487.6	8467.9	8433.3	8383.7	8349.1	8314.5	8294.7	8264.9	8255.1	8225.3	8220.5
30°	8101.7	8076.9	8007.6	7987.9	7928.4	7893.8	7893.8	7854.2	7859.2	7839.4	7839.4
32.5°	7493.0	7453.4	7398.9	7359.3	7319.7	7299.9	7299.9	7285.0	7295.0	7295.0	7304.9
35°	6686.2	6631.8	6602.1	6577.3	6577.3	6597.1	6656.5	6671.4	6701.1	6725.8	6745.7
37.5°	5651.8	5647.0	5681.6	5711.3	5785.5	5869.7	5973.6	6062.7	6146.7	6206.2	6265.5
40°	4533.4	4657.1	4756.1	4894.7	5008.4	5171.8	5359.8	5513.3	5656.8	5760.8	5869.7
42.5°	3538.6	3697.0	3904.9	4107.7	4310.7	4533.4	4780.9	4993.6	5181.7	5325.2	5439.0
45°	2756.6	2974.4	3226.9	3484.2	3746.5	4023.7	4281.0	4498.7	4696.7	4845.2	4959.0
47.5°	2222.1	2459.7	2746.7	3028.9	3325.8	3617.8	3904.9	4092.9	4256.2	4375.0	4479.0
50°	1836.1	2088.5	2390.4	2712.1	3009.0	3301.1	3548.5	3731.6	3865.3	3969.2	4033.5
52.5°	1534.2	1801.4	2123.2	2444.8	2741.7	3009.0	3231.8	3370.4	3479.2	3553.5	3612.8
55°	1266.9	1524.4	1826.3	2128.1	2420.1	2672.5	2855.6	2959.6	3043.6	3088.2	3122.8
57.5°	1034.4	1271.9	1549.1	1826.3	2078.6	2286.5	2430.0	2533.9	2573.5	2608.2	2603.2
60°	811.7	1034.4	1286.8	1524.4	1742.1	1910.3	2014.3	2073.7	2103.3	2118.2	2108.3
62.5°	638.4	841.4	1034.4	1242.2	1400.6	1544.1	1643.2	1643.2	1657.9	1662.9	1677.8
65°	475.1	628.5	796.8	950.2	1078.8	1172.9	1227.4	1242.2	1262.1	1257.1	1247.2
67.5°	351.4	465.3	588.9	702.7	791.8	851.2	890.8	925.5	920.6	910.6	905.7
70°	242.6	316.8	425.7	494.9	559.2	618.7	628.5	633.5	638.4	643.4	633.5
72.5°	168.3	222.7	282.2	341.5	381.1	405.8	430.6	435.5	435.5	435.5	430.6
75°	84.2	113.8	168.3	193.0	227.7	237.6	257.3	257.3	272.2	252.4	247.4
77.5°	74.2	89.1	118.8	138.5	153.4	168.3	173.2	188.1	183.1	173.2	178.1
80°	44.6	54.5	74.2	84.2	103.9	108.9	113.8	118.8	113.8	118.8	118.8
82.5°	34.6	39.6	49.5	49.5	64.3	64.3	69.3	69.3	74.2	74.2	74.2
85°	19.7	34.6	29.7	59.3	39.6	39.6	49.5	59.3	49.5	49.5	59.3
87.5°	19.7	19.7	14.9	19.7	19.7	19.7	24.7	29.7	29.7	34.6	29.7
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: P249314

CATALOG NUMBER: LD8B175D010 ER8B175830 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	9220.2	9220.2	9220.2	9220.2
2.5°	9235.0	9244.9	9230.1	9225.1
5°	9249.8	9249.8	9240.0	9240.0
7.5°	9249.8	9249.8	9235.0	9225.1
10°	9210.2	9210.2	9195.4	9185.5
12.5°	9136.0	9136.0	9131.0	9116.3
15°	9042.0	9042.0	9022.2	9007.4
17.5°	8913.3	8923.2	8898.5	8898.5
20°	8774.8	8769.8	8750.1	8740.1
22.5°	8631.3	8621.3	8616.4	8586.7
25°	8477.8	8467.9	8453.0	8438.2
27.5°	8215.5	8210.6	8195.7	8175.9
30°	7814.6	7809.6	7789.9	7789.9
32.5°	7295.0	7290.0	7270.3	7275.2
35°	6755.5	6775.3	6765.4	6745.7
37.5°	6305.1	6320.0	6329.9	6320.0
40°	5929.0	5973.6	5978.5	5988.5
42.5°	5528.2	5587.5	5607.4	5617.2
45°	5048.0	5102.5	5147.1	5137.1
47.5°	4558.1	4597.7	4637.3	4607.6
50°	4088.0	4112.7	4127.6	4127.6
52.5°	3642.6	3642.6	3637.6	3642.6
55°	3132.8	3132.8	3113.0	3122.8
57.5°	2598.2	2608.2	2593.3	2568.6
60°	2103.3	2078.6	2068.7	2053.9
62.5°	1638.2	1638.2	1603.6	1648.0
65°	1227.4	1212.5	1197.6	1192.7
67.5°	890.8	885.9	871.0	866.1
70°	628.5	608.8	603.8	593.9
72.5°	420.7	420.7	410.8	410.8
75°	257.3	232.6	227.7	232.6
77.5°	178.1	173.2	173.2	168.3
80°	118.8	113.8	123.8	108.9
82.5°	74.2	79.2	74.2	79.2
85°	49.5	59.3	54.5	54.5
87.5°	29.7	29.7	29.7	29.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)