

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: P249296

Luminaire Tested: **LD8B175D010 ER8B175930 8LBDW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249296
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 ER8B175930 8LBDW0WMH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15272.5 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

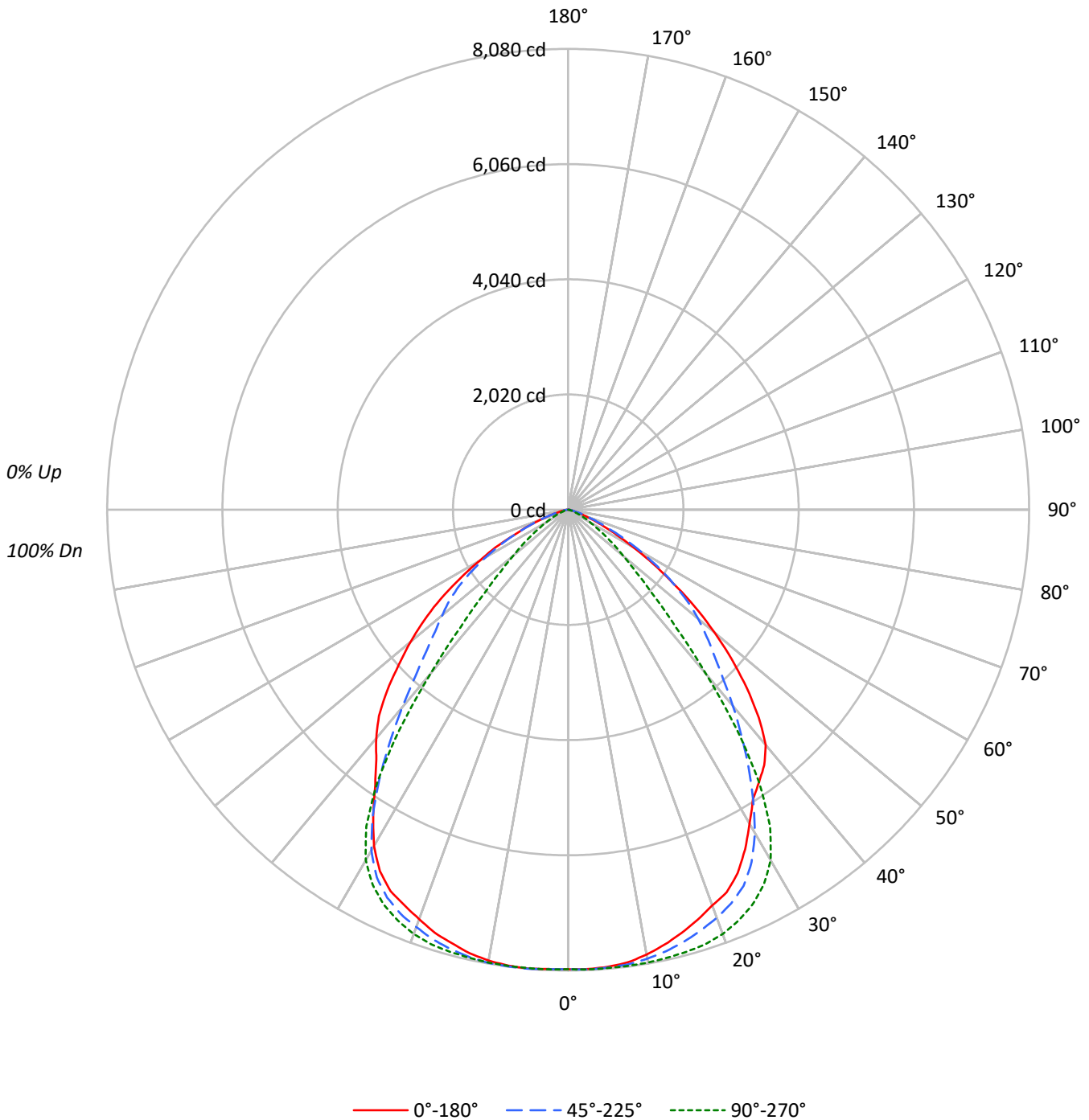
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	769.0	5.0
10°-20°	2233.4	14.6
20°-30°	3389.8	22.2
30°-40°	3560.3	23.3
40°-50°	2669.3	17.5
50°-60°	1712.7	11.2
60°-70°	732.7	4.8
70°-80°	173.1	1.1
80°-90°	32.2	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°	6392.2	41.9
0°-40°	9952.6	65.2
0°-60°	14334.6	93.9
0°-90°	15272.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15272.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8058	8058	8058	8058	8058	
5°	8045	8058	8067	8080	8076	764
15°	7682	7842	8023	7972	7872	2167
25°	7029	7275	7643	7504	7375	3211
35°	5830	5506	5835	5766	5896	3659
45°	4429	3620	2080	3517	4490	3392
55°	2240	2240	774	2336	2729	2032
65°	675	796	247	1025	1042	720
75°	104	121	35	208	203	151
85°	35	22	17	35	48	36
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°	8058.1	8058.1	8058.1	8058.1	8058.1	8058.1	8058.1	8058.1	8058.1	8058.1	8058.1
2.5°	8062.5	8071.1	8066.7	8066.7	8062.5	8066.7	8066.7	8075.5	8075.5	8066.7	8062.5
5°	8045.1	8053.7	8053.7	8045.1	8045.1	8066.7	8053.7	8062.5	8062.5	8058.1	8058.1
7.5°	8006.2	8006.2	8023.4	8010.6	8010.6	8023.4	8019.1	8027.8	8036.4	8040.8	8040.8
10°	7919.6	7928.3	7932.6	7932.6	7937.0	7949.9	7958.5	7975.9	7984.5	7993.2	7997.6
12.5°	7811.6	7824.5	7828.8	7824.5	7837.5	7854.7	7876.5	7898.0	7911.1	7928.3	7941.4
15°	7681.8	7681.8	7690.4	7703.4	7712.1	7738.0	7759.7	7785.6	7820.2	7841.8	7863.5
17.5°	7539.1	7547.7	7560.7	7560.7	7578.0	7621.2	7634.2	7673.1	7712.1	7733.7	7776.9
20°	7383.4	7392.0	7405.0	7413.6	7435.3	7469.9	7495.8	7530.4	7573.7	7612.6	7655.8
22.5°	7262.2	7244.9	7253.5	7262.2	7283.9	7314.2	7344.5	7387.6	7430.9	7469.9	7513.2
25°	7028.7	7032.9	7045.9	7054.6	7080.6	7106.5	7141.1	7193.0	7231.9	7275.2	7322.7
27.5°	6712.9	6717.3	6738.9	6738.9	6760.4	6803.7	6825.3	6868.6	6920.6	6963.8	7020.0
30°	6353.9	6362.5	6362.5	6379.8	6392.7	6414.5	6436.1	6479.4	6505.3	6544.2	6622.1
32.5°	6025.3	6033.8	6029.4	6025.3	6012.1	6007.9	6003.5	6012.1	6020.9	6033.8	6064.0
35°	5830.5	5808.9	5791.6	5761.4	5726.7	5683.5	5644.6	5592.7	5545.0	5506.1	5463.0
37.5°	5644.6	5640.2	5614.3	5571.0	5501.8	5424.0	5333.2	5220.7	5108.2	4987.1	4870.4
40°	5385.1	5372.1	5350.4	5289.9	5212.0	5116.8	4995.7	4857.3	4675.6	4489.7	4299.4
42.5°	4943.8	4948.2	4922.2	4874.6	4801.1	4710.2	4584.8	4433.4	4238.8	4018.2	3771.7
45°	4429.2	4429.2	4420.4	4381.5	4329.6	4256.1	4160.9	4035.6	3845.3	3620.3	3356.4
47.5°	3892.8	3897.2	3884.2	3875.5	3853.9	3806.4	3737.1	3641.9	3507.8	3291.5	3027.7
50°	3347.9	3347.9	3369.4	3365.1	3365.1	3347.9	3317.6	3261.2	3144.5	2971.5	2725.0
52.5°	2802.8	2811.5	2824.5	2841.7	2863.4	2897.9	2863.4	2837.4	2763.8	2629.8	2417.9
55°	2240.5	2249.2	2270.8	2301.1	2327.1	2361.7	2370.2	2370.2	2331.3	2240.5	2080.5
57.5°	1760.4	1747.4	1764.8	1790.7	1825.3	1860.0	1885.9	1916.1	1911.8	1851.2	1721.5
60°	1323.6	1327.9	1340.8	1366.8	1392.7	1423.0	1457.6	1483.5	1496.6	1466.4	1384.1
62.5°	964.6	964.6	981.8	1007.8	1020.8	1064.1	1085.7	1098.7	1111.6	1107.2	1055.4
65°	674.8	683.4	692.0	705.1	718.0	743.9	756.9	782.9	791.5	795.9	756.9
67.5°	475.9	462.9	471.5	480.0	493.1	510.4	536.4	536.4	549.3	549.3	523.4
70°	302.8	302.8	307.2	320.0	328.7	333.0	341.7	350.3	363.3	358.9	358.9
72.5°	203.3	199.0	203.3	207.6	212.0	224.9	224.9	229.2	237.9	242.2	224.9
75°	103.8	108.2	116.7	112.5	125.4	116.7	121.1	134.1	129.7	121.1	121.1
77.5°	86.4	86.4	86.4	82.3	90.8	90.8	86.4	95.2	90.8	90.8	86.4
80°	60.5	64.9	60.5	56.2	60.5	56.2	56.2	56.2	56.2	56.2	51.9
82.5°	47.6	38.9	43.3	38.9	43.3	43.3	38.9	34.6	34.6	38.9	34.6
85°	34.6	25.9	30.3	30.3	25.9	25.9	25.9	25.9	25.9	21.6	21.6
87.5°	21.6	13.0	13.0	13.0	17.3	17.3	17.3	13.0	17.3	17.3	8.6
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°	8058.1	8058.1	8058.1	8058.1	8058.1	8058.1	8058.1	8058.1	8058.1	8058.1	8058.1
2.5°	8071.1	8066.7	8075.5	8071.1	8071.1	8066.7	8071.1	8066.7	8075.5	8058.1	8062.5
5°	8071.1	8062.5	8066.7	8071.1	8075.5	8066.7	8066.7	8066.7	8075.5	8066.7	8071.1
7.5°	8053.7	8049.5	8062.5	8071.1	8066.7	8062.5	8071.1	8066.7	8075.5	8071.1	8079.7
10°	8019.1	8023.4	8032.2	8045.1	8049.5	8053.7	8062.5	8062.5	8075.5	8058.1	8066.7
12.5°	7967.3	7984.5	8006.2	8014.8	8032.2	8032.2	8040.8	8045.1	8053.7	8049.5	8062.5
15°	7902.4	7924.0	7949.9	7971.7	7993.2	8006.2	8019.1	8023.4	8036.4	8023.4	8027.8
17.5°	7824.5	7850.5	7889.4	7915.3	7949.9	7962.9	7980.2	7988.8	8001.9	7993.2	7997.6
20°	7716.3	7746.7	7789.9	7828.8	7850.5	7880.7	7902.4	7915.3	7924.0	7915.3	7919.6
22.5°	7565.0	7608.2	7664.5	7694.8	7738.0	7763.9	7768.3	7798.6	7820.2	7798.6	7807.2
25°	7387.6	7430.9	7474.2	7539.1	7578.0	7608.2	7638.5	7642.9	7664.5	7660.1	7655.8
27.5°	7093.5	7149.9	7223.3	7275.2	7327.1	7374.7	7409.4	7417.9	7439.6	7430.9	7435.3
30°	6691.2	6751.9	6821.1	6903.2	6976.8	7024.3	7067.6	7097.8	7119.5	7106.5	7102.2
32.5°	6120.3	6180.9	6254.5	6336.6	6423.1	6492.3	6544.2	6583.2	6609.1	6600.4	6578.8
35°	5467.2	5484.5	5532.1	5597.0	5670.5	5744.0	5791.6	5834.8	5865.1	5873.8	5873.8
37.5°	4796.8	4740.6	4706.0	4706.0	4749.2	4779.5	4822.8	4848.7	4896.3	4913.6	4926.6
40°	4147.9	4018.2	3897.2	3806.4	3745.8	3741.4	3741.4	3754.3	3797.6	3853.9	3905.8
42.5°	3568.4	3360.8	3174.8	3006.1	2885.0	2815.8	2785.6	2789.8	2824.5	2876.4	2962.8
45°	3105.6	2846.1	2612.5	2409.3	2244.8	2136.6	2084.8	2080.5	2106.4	2166.9	2262.2
47.5°	2746.6	2469.8	2205.9	1972.3	1795.1	1678.2	1617.7	1600.5	1617.7	1673.9	1786.3
50°	2448.2	2162.7	1890.2	1648.0	1457.6	1336.6	1280.3	1258.7	1280.3	1327.9	1440.3
52.5°	2171.3	1877.2	1622.0	1388.5	1185.1	1081.3	1020.8	1007.8	1020.8	1076.9	1167.9
55°	1851.2	1600.5	1349.5	1116.0	938.6	834.8	787.2	774.3	787.2	839.2	934.4
57.5°	1535.5	1319.2	1098.7	886.7	735.4	644.5	601.2	583.9	614.2	648.7	761.3
60°	1241.3	1068.4	882.3	696.4	570.9	488.8	454.1	449.7	458.5	501.8	579.6
62.5°	973.3	830.4	683.4	532.0	428.2	393.6	350.3	346.1	354.7	380.6	441.2
65°	700.7	609.9	497.4	389.2	307.2	259.5	242.2	246.6	255.1	272.5	328.7
67.5°	488.8	423.9	346.1	272.5	212.0	190.3	173.1	168.7	173.1	203.3	233.6
70°	328.7	289.8	233.6	207.6	147.1	116.7	121.1	108.2	125.4	125.4	151.3
72.5°	216.2	190.3	155.7	121.1	103.8	82.3	82.3	77.9	86.4	90.8	112.5
75°	112.5	86.4	86.4	60.5	43.3	21.6	38.9	34.6	30.3	34.6	43.3
77.5°	77.9	64.9	60.5	47.6	43.3	34.6	34.6	34.6	34.6	38.9	43.3
80°	47.6	47.6	34.6	30.3	25.9	21.6	25.9	25.9	25.9	25.9	30.3
82.5°	30.3	25.9	25.9	21.6	21.6	17.3	17.3	17.3	17.3	17.3	25.9
85°	25.9	17.3	17.3	13.0	17.3	30.3	13.0	17.3	17.3	17.3	13.0
87.5°	8.6	13.0	13.0	13.0	8.6	4.4	8.6	13.0	13.0	21.6	17.3
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°	8058.1	8058.1	8058.1	8058.1	8058.1	8058.1	8058.1	8058.1	8058.1	8058.1	8058.1
2.5°	8071.1	8075.5	8075.5	8071.1	8071.1	8062.5	8079.7	8066.7	8071.1	8088.4	8075.5
5°	8079.7	8084.0	8084.0	8079.7	8079.7	8079.7	8084.0	8084.0	8079.7	8075.5	8084.0
7.5°	8097.0	8092.7	8092.7	8084.0	8084.0	8075.5	8084.0	8071.1	8079.7	8071.1	8084.0
10°	8075.5	8079.7	8075.5	8071.1	8071.1	8066.7	8066.7	8053.7	8058.1	8045.1	8053.7
12.5°	8062.5	8058.1	8058.1	8049.5	8040.8	8032.2	8027.8	8014.8	8014.8	7984.5	7997.6
15°	8027.8	8032.2	8019.1	8001.9	7993.2	7971.7	7962.9	7945.5	7928.3	7906.7	7911.1
17.5°	7997.6	7984.5	7967.3	7949.9	7915.3	7898.0	7880.7	7854.7	7846.1	7820.2	7811.6
20°	7906.7	7898.0	7876.5	7846.1	7824.5	7785.6	7768.3	7742.4	7720.7	7694.8	7681.8
22.5°	7789.9	7781.2	7755.3	7725.0	7690.4	7673.1	7655.8	7608.2	7586.6	7560.7	7556.3
25°	7642.9	7629.9	7604.0	7569.3	7552.0	7504.4	7487.0	7452.5	7443.9	7417.9	7413.6
27.5°	7417.9	7400.6	7370.4	7327.1	7296.8	7266.5	7249.3	7223.3	7214.6	7188.6	7184.4
30°	7080.6	7058.9	6998.4	6981.1	6929.1	6898.9	6898.9	6864.2	6868.6	6851.3	6851.3
32.5°	6548.5	6513.9	6466.4	6431.7	6397.1	6379.8	6379.8	6366.8	6375.6	6375.6	6384.2
35°	5843.5	5796.0	5769.9	5748.4	5748.4	5765.6	5817.5	5830.5	5856.6	5878.1	5895.5
37.5°	4939.5	4935.2	4965.5	4991.5	5056.3	5129.9	5220.7	5298.5	5372.1	5424.0	5475.9
40°	3962.0	4070.1	4156.7	4277.8	4377.2	4520.0	4684.3	4818.4	4943.8	5034.7	5129.9
42.5°	3092.6	3230.9	3412.7	3590.0	3767.3	3962.0	4178.3	4364.3	4528.6	4654.1	4753.5
45°	2409.3	2599.5	2820.1	3045.1	3274.3	3516.6	3741.4	3931.7	4104.8	4234.5	4334.0
47.5°	1942.0	2149.7	2400.5	2647.1	2906.6	3161.8	3412.7	3577.1	3719.7	3823.5	3914.4
50°	1604.6	1825.3	2089.2	2370.2	2629.8	2885.0	3101.2	3261.2	3378.1	3468.9	3525.1
52.5°	1340.8	1574.3	1855.6	2136.6	2396.1	2629.8	2824.5	2945.5	3040.7	3105.6	3157.4
55°	1107.2	1332.2	1596.1	1860.0	2115.1	2335.6	2495.7	2586.6	2660.0	2698.9	2729.2
57.5°	904.0	1111.6	1353.8	1596.1	1816.6	1998.3	2123.7	2214.5	2249.2	2279.4	2275.1
60°	709.4	904.0	1124.6	1332.2	1522.5	1669.5	1760.4	1812.3	1838.2	1851.2	1842.6
62.5°	557.9	735.4	904.0	1085.7	1224.0	1349.5	1436.0	1436.0	1449.0	1453.3	1466.4
65°	415.2	549.3	696.4	830.4	942.9	1025.2	1072.7	1085.7	1103.0	1098.7	1089.9
67.5°	307.2	406.6	514.7	614.2	692.0	743.9	778.5	808.9	804.5	795.9	791.5
70°	212.0	276.9	372.1	432.6	488.8	540.7	549.3	553.7	557.9	562.3	553.7
72.5°	147.1	194.6	246.6	298.4	333.0	354.7	376.3	380.6	380.6	380.6	376.3
75°	73.5	99.4	147.1	168.7	199.0	207.6	224.9	224.9	237.9	220.6	216.2
77.5°	64.9	77.9	103.8	121.1	134.1	147.1	151.3	164.3	160.0	151.3	155.7
80°	38.9	47.6	64.9	73.5	90.8	95.2	99.4	103.8	99.4	103.8	103.8
82.5°	30.3	34.6	43.3	43.3	56.2	56.2	60.5	60.5	64.9	64.9	64.9
85°	17.3	30.3	25.9	51.9	34.6	34.6	43.3	51.9	43.3	43.3	51.9
87.5°	17.3	17.3	13.0	17.3	17.3	17.3	21.6	25.9	25.9	30.3	25.9
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: P249296

CATALOG NUMBER: LD8B175D010 ER8B175930 8LBDW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	8058.1	8058.1	8058.1	8058.1
2.5°	8071.1	8079.7	8066.7	8062.5
5°	8084.0	8084.0	8075.5	8075.5
7.5°	8084.0	8084.0	8071.1	8062.5
10°	8049.5	8049.5	8036.4	8027.8
12.5°	7984.5	7984.5	7980.2	7967.3
15°	7902.4	7902.4	7885.0	7872.1
17.5°	7789.9	7798.6	7776.9	7776.9
20°	7668.8	7664.5	7647.2	7638.5
22.5°	7543.4	7534.7	7530.4	7504.4
25°	7409.4	7400.6	7387.6	7374.7
27.5°	7180.1	7175.7	7162.7	7145.5
30°	6829.7	6825.3	6808.1	6808.1
32.5°	6375.6	6371.2	6353.9	6358.3
35°	5904.1	5921.3	5912.7	5895.5
37.5°	5510.5	5523.5	5532.1	5523.5
40°	5181.7	5220.7	5225.0	5233.7
42.5°	4831.4	4883.3	4900.7	4909.2
45°	4411.8	4459.5	4498.3	4489.7
47.5°	3983.6	4018.2	4052.8	4026.9
50°	3572.7	3594.4	3607.4	3607.4
52.5°	3183.5	3183.5	3179.2	3183.5
55°	2737.9	2737.9	2720.7	2729.2
57.5°	2270.8	2279.4	2266.4	2244.8
60°	1838.2	1816.6	1807.9	1795.1
62.5°	1431.7	1431.7	1401.5	1440.3
65°	1072.7	1059.7	1046.7	1042.3
67.5°	778.5	774.3	761.3	756.9
70°	549.3	532.0	527.7	519.0
72.5°	367.7	367.7	358.9	358.9
75°	224.9	203.3	199.0	203.3
77.5°	155.7	151.3	151.3	147.1
80°	103.8	99.4	108.2	95.2
82.5°	64.9	69.2	64.9	69.2
85°	43.3	51.9	47.6	47.6
87.5°	25.9	25.9	25.9	25.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)