

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: P248433

Luminaire Tested: **LD8B200D010 ER8B2009730 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248433
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: LD8B200D010 ER8B2009730 8LBDWOLI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16729.0 lumens
Efficiency: N/A
Efficacy: 74.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

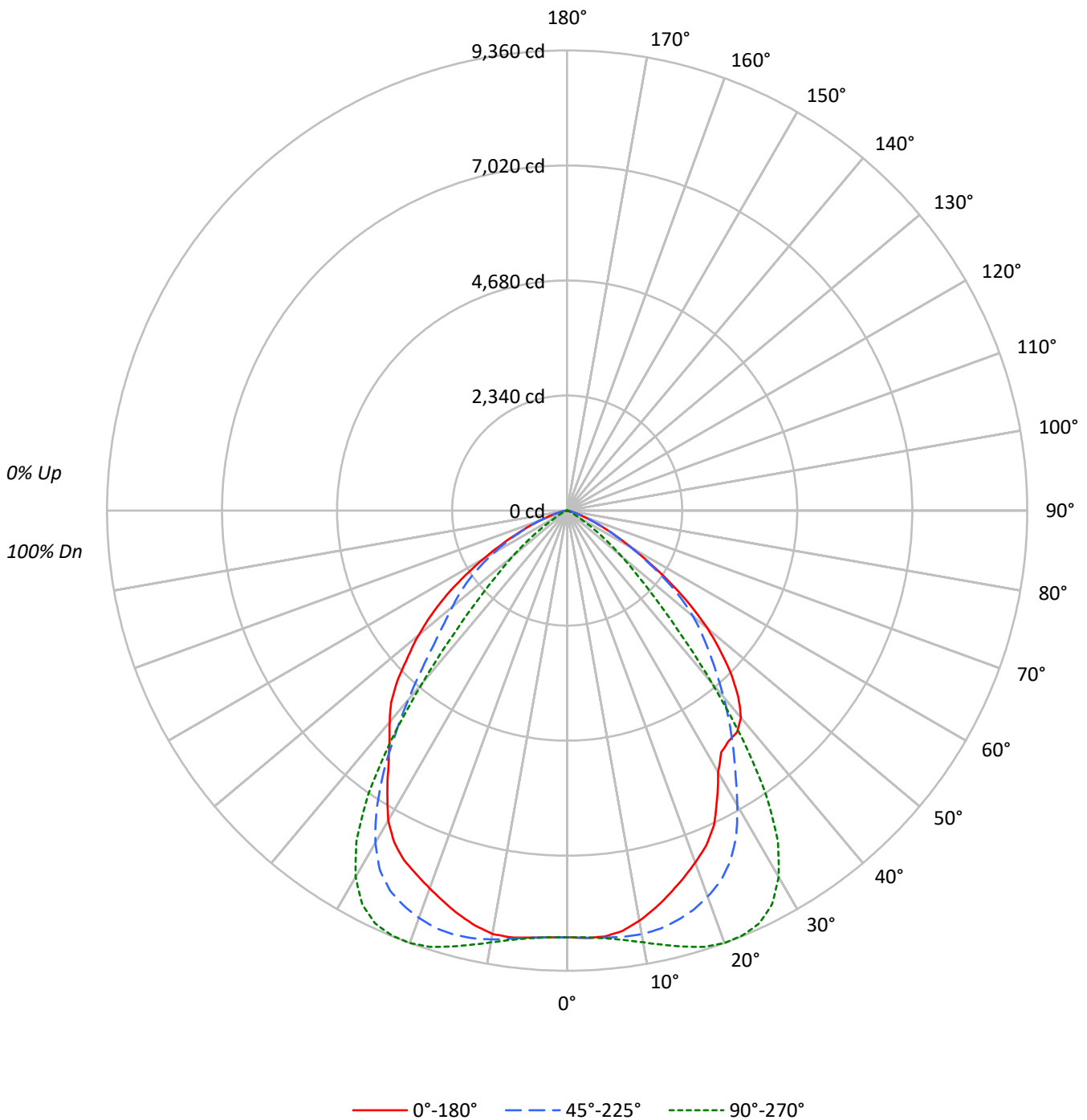
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	92	90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38
10	60	48	41	36	59	48	41	36	47	41	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°	834.6	5.0
10°-20°	2472.4	14.8
20°-30°	3771.9	22.5
30°-40°	3936.0	23.5
40°-50°	2956.4	17.7
50°-60°	1819.0	10.9
60°-70°	740.3	4.4
70°-80°	174.4	1.0
80°-90°	24.0	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°	7078.8	42.3
0°-40°	11014.8	65.8
0°-60°	15790.3	94.4
0°-90°	16729.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16729.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8678	8678	8678	8678	8678	
5°	8697	8720	8729	8720	8720	823
15°	8066	8632	9180	8927	8508	2272
25°	7066	7859	9259	8526	7849	3212
35°	5726	5887	7052	6518	6334	3615
45°	4726	4090	2552	3810	4874	3606
55°	2552	2423	668	2423	2990	2294
65°	797	806	101	1082	1147	831
75°	138	138	18	244	253	166
85°	14	14	5	32	42	19
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°	8678.4	8678.4	8678.4	8678.4	8678.4	8678.4	8678.4	8678.4	8678.4	8678.4	8678.4
2.5°	8701.5	8687.7	8701.5	8701.5	8706.1	8696.9	8701.5	8706.1	8696.9	8696.9	8696.9
5°	8696.9	8687.7	8696.9	8692.3	8701.5	8701.5	8710.8	8710.8	8719.9	8719.9	8733.8
7.5°	8623.2	8604.8	8623.2	8637.0	8646.2	8664.7	8687.7	8706.1	8724.5	8743.0	8766.0
10°	8471.1	8471.1	8485.0	8512.6	8540.2	8572.5	8613.9	8660.0	8706.1	8747.5	8789.0
12.5°	8282.3	8268.5	8296.1	8333.0	8374.4	8425.2	8489.6	8558.7	8632.4	8715.3	8779.9
15°	8065.8	8052.0	8084.2	8121.1	8171.8	8245.5	8323.8	8415.9	8521.9	8632.4	8738.4
17.5°	7844.7	7840.1	7872.3	7923.0	7964.5	8042.7	8144.2	8254.6	8374.4	8521.9	8660.0
20°	7619.0	7614.4	7646.7	7688.1	7743.4	7817.1	7918.4	8047.3	8190.2	8356.1	8517.2
22.5°	7384.0	7388.7	7416.3	7462.4	7508.5	7586.7	7692.6	7821.7	7978.3	8157.9	8337.6
25°	7066.2	7043.2	7080.1	7126.2	7204.4	7268.9	7370.3	7508.5	7669.7	7858.6	8070.4
27.5°	6605.5	6600.9	6633.3	6674.6	6743.7	6822.1	6932.6	7075.4	7245.9	7453.1	7660.4
30°	6144.9	6154.1	6168.0	6209.5	6255.5	6333.8	6444.4	6564.2	6725.4	6923.4	7144.5
32.5°	5831.7	5831.7	5850.2	5877.8	5910.0	5951.5	6029.8	6117.3	6241.7	6379.9	6541.1
35°	5725.7	5707.3	5725.7	5730.3	5735.0	5744.2	5758.0	5785.7	5827.1	5887.0	5946.9
37.5°	5679.7	5665.9	5665.9	5647.5	5624.4	5596.8	5559.9	5518.4	5472.5	5412.5	5366.5
40°	5500.1	5490.8	5481.6	5463.2	5412.5	5357.3	5297.3	5200.6	5094.7	4947.2	4799.9
42.5°	5154.6	5145.4	5140.8	5103.9	5057.8	4993.3	4924.2	4822.9	4689.3	4500.4	4288.5
45°	4726.2	4707.7	4694.0	4661.7	4629.4	4574.2	4509.7	4417.5	4283.9	4090.5	3837.1
47.5°	4228.7	4219.5	4214.8	4201.1	4168.8	4136.5	4095.1	4021.4	3901.6	3717.3	3454.8
50°	3726.6	3708.2	3717.3	3712.8	3699.0	3676.0	3648.2	3597.6	3505.4	3339.6	3100.1
52.5°	3150.7	3150.7	3146.2	3160.0	3164.6	3160.0	3164.6	3109.4	3031.0	2906.6	2703.9
55°	2551.9	2551.9	2565.8	2584.2	2602.6	2607.2	2602.6	2579.6	2524.3	2423.0	2243.3
57.5°	1989.9	1980.8	2008.4	2036.0	2054.5	2072.9	2059.0	2040.6	2008.4	1925.4	1787.3
60°	1515.5	1515.5	1533.9	1552.4	1570.7	1589.2	1584.6	1580.0	1552.4	1497.0	1386.6
62.5°	1114.7	1119.3	1119.3	1133.2	1151.6	1170.1	1183.8	1170.1	1156.2	1119.3	1045.6
65°	796.9	792.2	796.9	810.7	824.6	843.0	852.2	847.6	833.7	806.1	750.9
67.5°	534.4	529.7	548.1	552.7	562.0	580.5	575.8	580.5	575.8	552.7	506.7
70°	350.1	340.8	350.1	345.5	359.3	363.9	373.1	377.7	373.1	359.3	345.5
72.5°	216.5	211.9	216.5	221.1	225.8	230.3	239.5	239.5	234.9	225.8	207.3
75°	138.2	124.3	128.9	119.8	128.9	128.9	138.2	142.8	138.2	138.2	128.9
77.5°	83.0	83.0	83.0	83.0	83.0	83.0	83.0	87.6	92.1	83.0	78.3
80°	41.5	41.5	46.1	46.1	46.1	50.7	46.1	46.1	46.1	50.7	36.9
82.5°	32.2	27.6	27.6	27.6	32.2	27.6	27.6	27.6	27.6	27.6	27.6
85°	13.9	18.4	13.9	9.2	13.9	13.9	18.4	13.9	13.9	13.9	18.4
87.5°	4.6	4.6	0.0	0.0	0.0	4.6	0.0	4.6	4.6	9.2	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	8678.4	8678.4	8678.4	8678.4	8678.4	8678.4	8678.4	8678.4	8678.4	8678.4	8678.4
2.5°	8701.5	8692.3	8692.3	8687.7	8696.9	8687.7	8692.3	8687.7	8687.7	8696.9	8687.7
5°	8733.8	8738.4	8729.1	8724.5	8738.4	8738.4	8738.4	8729.1	8729.1	8733.8	8729.1
7.5°	8779.9	8789.0	8793.6	8798.2	8807.5	8812.1	8812.1	8807.5	8802.8	8816.7	8798.2
10°	8830.5	8844.3	8871.9	8885.8	8908.8	8908.8	8918.0	8918.0	8908.8	8918.0	8913.4
12.5°	8812.1	8894.9	8941.0	8973.3	9005.5	9033.1	9042.4	9047.0	9042.4	9060.8	9042.4
15°	8844.3	8913.4	8987.1	9042.4	9102.2	9134.4	9143.7	9180.5	9189.8	9194.4	9166.8
17.5°	8793.6	8918.0	8996.3	9079.2	9166.8	9226.6	9281.9	9305.0	9309.6	9318.7	9281.9
20°	8678.4	8816.7	8936.4	9056.2	9157.5	9249.6	9295.7	9360.2	9341.8	9378.7	9328.0
22.5°	8521.9	8678.4	8830.5	8987.1	9093.1	9203.6	9300.4	9346.3	9369.4	9369.4	9314.1
25°	8273.1	8457.4	8623.2	8784.4	8945.7	9079.2	9189.8	9258.9	9272.7	9268.1	9203.6
27.5°	7886.2	8084.2	8277.7	8462.0	8660.0	8816.7	8945.7	9028.5	9051.6	9051.6	8982.5
30°	7351.8	7563.7	7752.6	7973.6	8176.4	8351.4	8531.1	8604.8	8646.2	8646.2	8568.0
32.5°	6716.1	6895.8	7070.8	7287.3	7508.5	7706.5	7876.9	7978.3	8029.0	8024.4	7955.3
35°	6025.2	6112.7	6246.3	6407.5	6605.5	6789.8	6955.6	7052.4	7139.9	7135.3	7070.8
37.5°	5334.2	5311.2	5325.0	5384.9	5509.2	5638.3	5767.2	5859.4	5933.0	5965.3	5951.5
40°	4657.1	4537.3	4422.1	4380.7	4389.9	4436.0	4505.1	4574.2	4657.1	4698.6	4717.0
42.5°	4049.0	3846.4	3643.6	3491.7	3404.1	3376.5	3408.7	3431.7	3482.4	3542.3	3602.2
45°	3560.8	3289.0	3021.8	2786.9	2639.5	2551.9	2533.5	2551.9	2579.6	2639.5	2717.8
47.5°	3160.0	2842.1	2542.8	2280.1	2063.6	1948.5	1916.3	1907.1	1934.7	1989.9	2095.9
50°	2805.3	2487.4	2155.8	1851.7	1626.1	1497.0	1451.0	1432.6	1464.8	1506.3	1603.0
52.5°	2418.3	2105.1	1764.3	1469.4	1234.5	1101.0	1050.2	1022.6	1041.0	1096.3	1193.0
55°	1999.2	1708.9	1400.3	1096.3	870.6	746.3	686.3	667.9	686.3	746.3	843.0
57.5°	1580.0	1335.9	1077.9	792.2	589.6	465.3	405.3	386.9	437.7	460.6	562.0
60°	1234.5	1036.5	815.4	580.5	405.3	308.6	248.8	234.9	258.0	299.4	382.3
62.5°	925.9	801.5	626.4	414.6	299.4	198.0	165.8	152.0	165.8	198.0	262.6
65°	672.5	575.8	437.7	304.0	202.7	147.4	110.6	101.3	115.2	138.2	193.5
67.5°	460.6	386.9	304.0	211.9	138.2	92.1	78.3	78.3	83.0	101.3	142.8
70°	299.4	253.4	193.5	138.2	92.1	69.1	59.9	50.7	59.9	73.7	96.7
72.5°	188.9	161.2	124.3	96.7	69.1	50.7	41.5	36.9	46.1	55.2	73.7
75°	115.2	87.6	64.5	50.7	36.9	36.9	36.9	18.4	23.0	36.9	46.1
77.5°	69.1	59.9	50.7	41.5	32.2	18.4	18.4	18.4	23.0	27.6	41.5
80°	36.9	32.2	23.0	23.0	18.4	13.9	18.4	13.9	9.2	23.0	27.6
82.5°	23.0	18.4	18.4	18.4	23.0	9.2	13.9	9.2	13.9	18.4	13.9
85°	13.9	13.9	13.9	9.2	23.0	9.2	9.2	4.6	4.6	9.2	9.2
87.5°	0.0	4.6	4.6	0.0	4.6	0.0	4.6	4.6	4.6	4.6	4.6
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	8678.4	8678.4	8678.4	8678.4	8678.4	8678.4	8678.4	8678.4	8678.4	8678.4	8678.4
2.5°	8692.3	8687.7	8692.3	8687.7	8687.7	8687.7	8692.3	8692.3	8687.7	8687.7	8696.9
5°	8729.1	8729.1	8729.1	8724.5	8719.9	8719.9	8729.1	8729.1	8715.3	8729.1	8729.1
7.5°	8807.5	8793.6	8807.5	8789.0	8779.9	8784.4	8789.0	8779.9	8770.6	8775.2	8775.2
10°	8908.8	8894.9	8894.9	8881.2	8867.3	8858.1	8848.9	8825.8	8802.8	8798.2	8779.9
12.5°	9028.5	9005.5	8991.7	8964.0	8941.0	8908.8	8881.2	8844.3	8798.2	8766.0	8733.8
15°	9148.3	9111.5	9079.2	9033.1	8982.5	8927.2	8867.3	8807.5	8733.8	8669.3	8613.9
17.5°	9245.0	9194.4	9134.4	9060.8	8987.1	8904.2	8816.7	8729.1	8623.2	8540.2	8475.8
20°	9277.2	9203.6	9125.3	9028.5	8931.8	8816.7	8706.1	8590.9	8471.1	8383.7	8310.0
22.5°	9235.9	9148.3	9051.6	8950.3	8821.2	8696.9	8568.0	8434.3	8328.3	8208.6	8139.5
25°	9120.7	9014.7	8908.8	8789.0	8664.7	8526.5	8388.3	8250.1	8121.1	8056.6	7969.1
27.5°	8885.8	8770.6	8655.4	8531.1	8388.3	8250.1	8107.3	7973.6	7863.2	7775.6	7725.0
30°	8471.1	8337.6	8204.0	8070.4	7946.0	7803.2	7669.7	7559.1	7448.5	7379.4	7328.8
32.5°	7835.4	7715.7	7582.2	7453.1	7338.1	7218.2	7107.7	7011.0	6932.6	6886.5	6849.7
35°	6978.7	6858.9	6757.6	6665.5	6568.7	6518.1	6449.0	6393.6	6361.4	6343.0	6338.4
37.5°	5900.8	5831.7	5799.4	5781.1	5762.6	5748.8	5758.0	5781.1	5799.4	5831.7	5868.5
40°	4749.2	4809.0	4827.5	4892.0	4951.8	5030.2	5117.8	5219.1	5301.9	5407.9	5481.6
42.5°	3699.0	3809.5	3938.5	4076.6	4224.1	4366.9	4541.9	4703.1	4850.5	4984.1	5099.3
45°	2842.1	3012.5	3206.1	3404.1	3602.2	3809.5	4021.4	4219.5	4394.5	4537.3	4657.1
47.5°	2215.7	2404.6	2653.3	2897.5	3137.0	3381.1	3616.0	3823.3	3970.7	4108.9	4214.8
50°	1755.0	1971.5	2243.3	2524.3	2786.9	3044.8	3293.5	3487.1	3634.5	3745.0	3823.3
52.5°	1358.8	1616.8	1893.2	2188.1	2469.0	2750.0	2980.3	3160.0	3279.8	3376.5	3436.3
55°	1013.4	1266.8	1561.6	1865.6	2151.2	2423.0	2639.5	2796.1	2902.1	2957.3	2989.5
57.5°	732.4	962.8	1257.5	1561.6	1819.5	2077.5	2252.5	2395.3	2455.2	2487.4	2501.3
60°	534.4	746.3	1008.8	1271.4	1515.5	1722.8	1874.8	1971.5	2017.6	2036.0	2031.4
62.5°	391.6	575.8	801.5	1022.6	1220.7	1391.1	1510.9	1575.4	1598.5	1607.6	1593.8
65°	299.4	442.2	635.7	806.1	958.2	1082.5	1170.1	1211.5	1225.3	1220.7	1211.5
67.5°	221.1	331.7	474.5	603.5	714.0	810.7	856.8	893.7	902.8	889.1	875.2
70°	156.7	244.1	345.5	433.0	515.9	571.2	621.8	626.4	626.4	621.8	612.7
72.5°	110.6	170.4	234.9	294.9	345.5	386.9	405.3	419.2	414.6	409.9	400.8
75°	73.7	105.9	170.4	184.3	230.3	244.1	262.6	262.6	267.1	253.4	253.4
77.5°	46.1	73.7	101.3	119.8	138.2	156.7	165.8	165.8	170.4	165.8	165.8
80°	27.6	46.1	55.2	83.0	83.0	96.7	101.3	105.9	96.7	110.6	96.7
82.5°	18.4	27.6	41.5	41.5	50.7	59.9	59.9	64.5	64.5	59.9	59.9
85°	13.9	18.4	23.0	27.6	27.6	32.2	27.6	27.6	32.2	36.9	32.2
87.5°	4.6	9.2	4.6	9.2	9.2	18.4	13.9	13.9	13.9	18.4	18.4
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: P248433

CATALOG NUMBER: LD8B200D010 ER8B2009730 8LBDW0LI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	8678.4	8678.4	8678.4	8678.4
2.5°	8687.7	8692.3	8687.7	8687.7
5°	8729.1	8724.5	8729.1	8719.9
7.5°	8761.4	8761.4	8756.7	8756.7
10°	8761.4	8743.0	8743.0	8743.0
12.5°	8692.3	8669.3	8655.4	8646.2
15°	8572.5	8531.1	8512.6	8508.0
17.5°	8415.9	8379.1	8356.1	8342.2
20°	8236.2	8199.4	8171.8	8176.4
22.5°	8079.6	8038.2	8019.7	8010.5
25°	7923.0	7872.3	7858.6	7849.3
27.5°	7669.7	7642.0	7628.2	7614.4
30°	7282.7	7268.9	7245.9	7278.1
32.5°	6835.9	6812.8	6794.4	6808.3
35°	6343.0	6329.2	6343.0	6333.8
37.5°	5891.6	5905.4	5923.9	5933.0
40°	5536.9	5587.5	5606.0	5615.2
42.5°	5182.2	5242.1	5278.9	5301.9
45°	4744.6	4804.4	4845.9	4873.6
47.5°	4293.2	4343.9	4385.3	4380.7
50°	3883.2	3910.8	3929.2	3947.7
52.5°	3468.6	3468.6	3473.2	3473.2
55°	2998.8	2989.5	2984.9	2989.5
57.5°	2482.8	2473.7	2469.0	2455.2
60°	2013.0	1985.4	1966.9	1966.9
62.5°	1575.4	1543.1	1529.4	1524.8
65°	1183.8	1179.2	1151.6	1146.9
67.5°	856.8	838.3	820.0	824.6
70°	603.5	575.8	575.8	566.6
72.5°	391.6	377.7	373.1	373.1
75°	244.1	244.1	234.9	253.4
77.5°	161.2	161.2	156.7	161.2
80°	96.7	96.7	96.7	92.1
82.5°	59.9	64.5	59.9	59.9
85°	32.2	36.9	27.6	41.5
87.5°	18.4	23.0	18.4	23.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)