

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: P249395

Luminaire Tested: **LD8B175D010 ER8B175927 8LBDW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249395
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 ER8B175927 8LBDW0GPH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 2700 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14234.6 lumens
Efficiency: N/A
Efficacy: 80.3 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

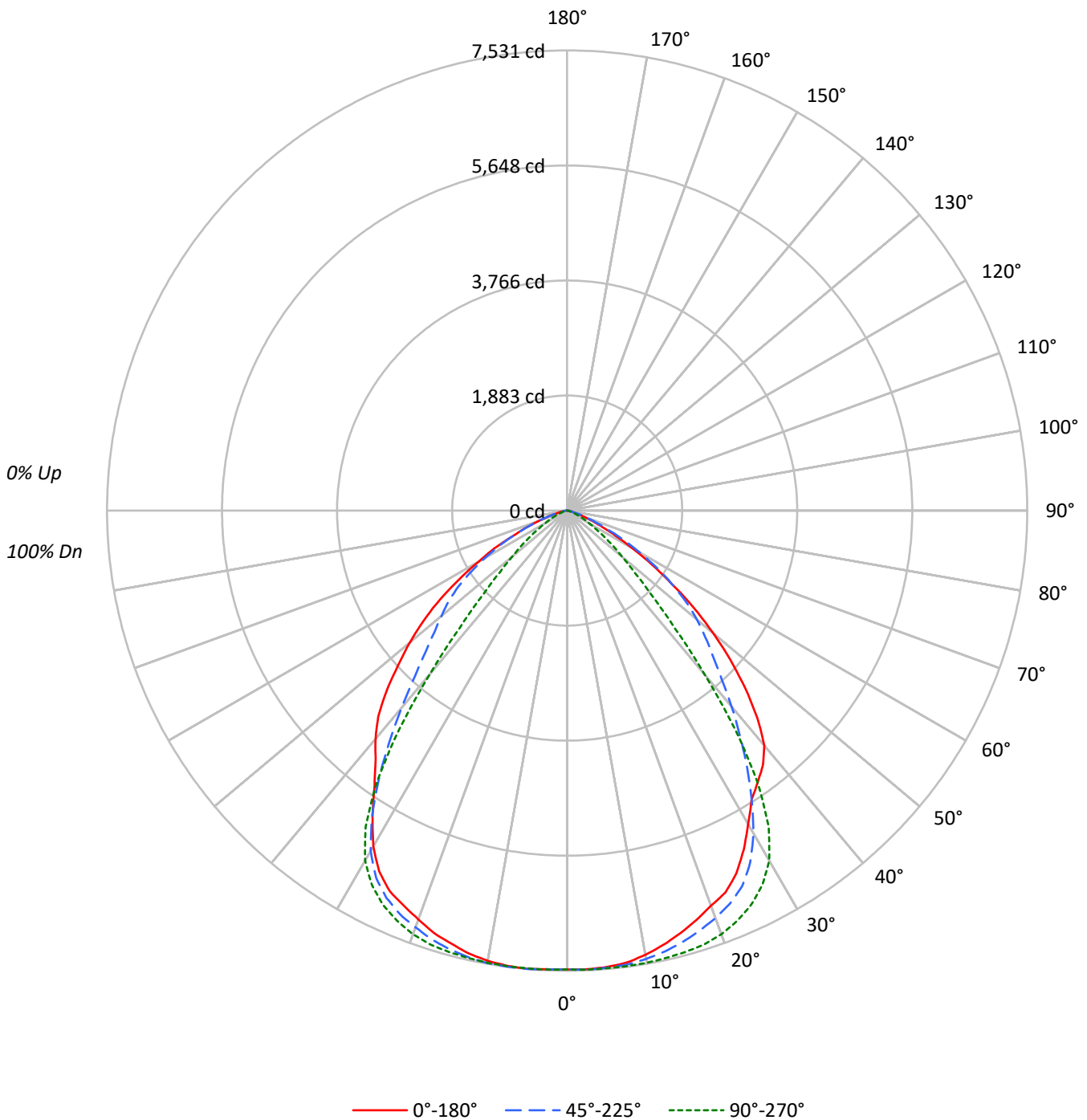
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	716.8	5.0
10°-20°	2081.6	14.6
20°-30°	3159.5	22.2
30°-40°	3318.4	23.3
40°-50°	2487.9	17.5
50°-60°	1596.3	11.2
60°-70°	682.9	4.8
70°-80°	161.3	1.1
80°-90°	30.0	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°	5957.8	41.9
0°-40°	9276.2	65.2
0°-60°	13360.4	93.9
0°-90°	14234.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14234.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7510	7510	7510	7510	7510	
5°	7498	7510	7519	7531	7527	712
15°	7160	7309	7478	7430	7337	2019
25°	6551	6781	7124	6994	6874	2993
35°	5434	5132	5438	5374	5495	3411
45°	4128	3374	1939	3278	4185	3162
55°	2088	2088	722	2177	2544	1894
65°	629	742	230	956	972	671
75°	97	113	32	194	190	141
85°	32	20	16	32	44	34
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°	7510.5	7510.5	7510.5	7510.5	7510.5	7510.5	7510.5	7510.5	7510.5	7510.5	7510.5
2.5°	7514.6	7522.6	7518.6	7518.6	7514.6	7518.6	7518.6	7526.6	7526.6	7518.6	7514.6
5°	7498.4	7506.4	7506.4	7498.4	7498.4	7518.6	7506.4	7514.6	7514.6	7510.5	7510.5
7.5°	7462.1	7462.1	7478.2	7466.2	7466.2	7478.2	7474.2	7482.3	7490.4	7494.4	7494.4
10°	7381.5	7389.6	7393.6	7393.6	7397.7	7409.7	7417.8	7433.9	7441.9	7450.0	7454.0
12.5°	7280.8	7292.8	7296.9	7292.8	7304.8	7320.9	7341.2	7361.3	7373.5	7389.6	7401.7
15°	7159.7	7159.7	7167.8	7180.0	7188.0	7212.2	7232.3	7256.5	7288.8	7308.9	7329.0
17.5°	7026.8	7034.8	7046.9	7046.9	7063.0	7103.2	7115.4	7151.7	7188.0	7208.1	7248.5
20°	6881.6	6889.6	6901.8	6909.9	6930.0	6962.2	6986.4	7018.6	7059.0	7095.3	7135.5
22.5°	6768.7	6752.6	6760.6	6768.7	6788.9	6817.2	6845.3	6885.6	6926.0	6962.2	7002.6
25°	6551.0	6555.0	6567.2	6575.2	6599.4	6623.6	6655.8	6704.2	6740.4	6780.8	6825.2
27.5°	6256.7	6260.7	6280.9	6280.9	6301.0	6341.4	6361.5	6401.8	6450.3	6490.5	6543.0
30°	5922.1	5930.1	5930.1	5946.3	5958.3	5978.6	5998.7	6039.0	6063.2	6099.5	6172.1
32.5°	5615.8	5623.8	5619.7	5615.8	5603.6	5599.6	5595.5	5603.6	5611.7	5623.8	5652.0
35°	5434.3	5414.2	5398.1	5369.8	5337.6	5297.3	5261.0	5212.6	5168.2	5131.9	5091.6
37.5°	5261.0	5256.9	5232.7	5192.4	5127.9	5055.4	4970.7	4865.8	4761.0	4648.2	4539.4
40°	5019.1	5006.9	4986.8	4930.4	4857.8	4769.1	4656.3	4527.2	4357.9	4184.6	4007.2
42.5°	4607.9	4611.9	4587.8	4543.3	4474.9	4390.1	4273.2	4132.2	3950.8	3745.1	3515.4
45°	4128.2	4128.2	4120.1	4083.8	4035.4	3966.9	3878.2	3761.3	3583.9	3374.2	3128.3
47.5°	3628.2	3632.3	3620.1	3612.2	3591.9	3547.7	3483.1	3394.5	3269.5	3067.9	2822.0
50°	3120.3	3120.3	3140.4	3136.4	3136.4	3120.3	3092.1	3039.6	2930.8	2769.5	2539.8
52.5°	2612.4	2620.5	2632.5	2648.6	2668.7	2701.0	2668.7	2644.5	2576.0	2451.0	2253.6
55°	2088.2	2096.3	2116.5	2144.7	2168.9	2201.2	2209.2	2209.2	2172.8	2088.2	1939.0
57.5°	1640.8	1628.7	1644.9	1669.0	1701.2	1733.5	1757.7	1785.9	1781.9	1725.4	1604.5
60°	1233.6	1237.6	1249.6	1274.0	1298.1	1326.4	1358.6	1382.7	1394.9	1366.6	1290.0
62.5°	899.0	899.0	915.1	939.3	951.4	991.7	1011.8	1024.0	1036.0	1032.0	983.7
65°	629.0	637.0	645.0	657.1	669.2	693.3	705.5	729.7	737.8	741.8	705.5
67.5°	443.5	431.3	439.4	447.4	459.6	475.8	500.0	500.0	512.0	512.0	487.8
70°	282.3	282.3	286.3	298.2	306.3	310.4	318.5	326.5	338.6	334.6	334.6
72.5°	189.5	185.4	189.5	193.5	197.5	209.6	209.6	213.6	221.7	225.8	209.6
75°	96.8	100.8	108.8	104.8	116.9	108.8	112.8	125.0	120.9	112.8	112.8
77.5°	80.6	80.6	80.6	76.6	84.6	84.6	80.6	88.6	84.6	84.6	80.6
80°	56.5	60.4	56.5	52.4	56.5	52.4	52.4	52.4	52.4	52.4	48.4
82.5°	44.4	36.3	40.4	36.3	40.4	40.4	36.3	32.3	32.3	36.3	32.3
85°	32.3	24.2	28.2	28.2	24.2	24.2	24.2	24.2	24.2	20.1	20.1
87.5°	20.1	12.2	12.2	12.2	16.1	16.1	16.1	12.2	16.1	16.1	8.1
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°	7510.5	7510.5	7510.5	7510.5	7510.5	7510.5	7510.5	7510.5	7510.5	7510.5	7510.5
2.5°	7522.6	7518.6	7526.6	7522.6	7522.6	7518.6	7522.6	7518.6	7526.6	7510.5	7514.6
5°	7522.6	7514.6	7518.6	7522.6	7526.6	7518.6	7518.6	7518.6	7526.6	7518.6	7522.6
7.5°	7506.4	7502.4	7514.6	7522.6	7518.6	7514.6	7522.6	7518.6	7526.6	7522.6	7530.6
10°	7474.2	7478.2	7486.3	7498.4	7502.4	7506.4	7514.6	7514.6	7526.6	7510.5	7518.6
12.5°	7425.8	7441.9	7462.1	7470.1	7486.3	7486.3	7494.4	7498.4	7506.4	7502.4	7514.6
15°	7365.4	7385.5	7409.7	7429.8	7450.0	7462.1	7474.2	7478.2	7490.4	7478.2	7482.3
17.5°	7292.8	7316.9	7353.2	7377.4	7409.7	7421.7	7437.8	7445.9	7458.1	7450.0	7454.0
20°	7192.0	7220.2	7260.5	7296.9	7316.9	7345.1	7365.4	7377.4	7385.5	7377.4	7381.5
22.5°	7050.9	7091.2	7143.6	7171.9	7212.2	7236.3	7240.4	7268.6	7288.8	7268.6	7276.7
25°	6885.6	6926.0	6966.2	7026.8	7063.0	7091.2	7119.4	7123.5	7143.6	7139.6	7135.5
27.5°	6611.4	6663.9	6732.3	6780.8	6829.2	6873.5	6905.8	6913.8	6934.0	6926.0	6930.0
30°	6236.6	6293.0	6357.5	6434.1	6502.6	6546.9	6587.3	6615.4	6635.6	6623.6	6619.5
32.5°	5704.4	5760.9	5829.4	5905.9	5986.7	6051.0	6099.5	6135.8	6159.9	6151.8	6131.7
35°	5095.7	5111.8	5156.2	5216.6	5285.1	5353.7	5398.1	5438.4	5466.5	5474.6	5474.6
37.5°	4470.9	4418.4	4386.2	4386.2	4426.4	4454.7	4495.0	4519.1	4563.6	4579.7	4591.8
40°	3866.1	3745.1	3632.3	3547.7	3491.2	3487.2	3487.2	3499.2	3539.6	3591.9	3640.4
42.5°	3326.0	3132.3	2959.1	2801.8	2689.0	2624.4	2596.3	2600.3	2632.5	2680.9	2761.4
45°	2894.5	2652.6	2435.0	2245.5	2092.3	1991.5	1943.1	1939.0	1963.2	2019.7	2108.5
47.5°	2559.9	2301.9	2055.9	1838.2	1673.1	1564.2	1507.7	1491.6	1507.7	1560.1	1665.0
50°	2281.7	2015.8	1761.8	1536.0	1358.6	1245.7	1193.3	1173.1	1193.3	1237.6	1342.5
52.5°	2023.8	1749.6	1511.8	1294.1	1104.6	1007.8	951.4	939.3	951.4	1003.7	1088.6
55°	1725.4	1491.6	1257.8	1040.1	874.8	778.1	733.7	721.7	733.7	782.1	870.8
57.5°	1431.2	1229.5	1024.0	826.4	685.4	600.6	560.4	544.2	572.4	604.7	709.5
60°	1157.0	995.7	822.4	649.0	532.1	455.5	423.2	419.2	427.3	467.7	540.1
62.5°	907.1	774.0	637.0	495.9	399.2	366.9	326.5	322.5	330.5	354.7	411.2
65°	653.1	568.5	463.6	362.8	286.3	241.9	225.8	229.8	237.8	254.0	306.3
67.5°	455.5	395.1	322.5	254.0	197.5	177.4	161.3	157.3	161.3	189.5	217.7
70°	306.3	270.1	217.7	193.5	137.1	108.8	112.8	100.8	116.9	116.9	141.1
72.5°	201.5	177.4	145.1	112.8	96.8	76.6	76.6	72.6	80.6	84.6	104.8
75°	104.8	80.6	80.6	56.5	40.4	20.1	36.3	32.3	28.2	32.3	40.4
77.5°	72.6	60.4	56.5	44.4	40.4	32.3	32.3	32.3	32.3	36.3	40.4
80°	44.4	44.4	32.3	28.2	24.2	20.1	24.2	24.2	24.2	24.2	28.2
82.5°	28.2	24.2	24.2	20.1	20.1	16.1	16.1	16.1	16.1	16.1	24.2
85°	24.2	16.1	16.1	12.2	16.1	28.2	12.2	16.1	16.1	16.1	12.2
87.5°	8.1	12.2	12.2	12.2	8.1	4.0	8.1	12.2	12.2	20.1	16.1
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°	7510.5	7510.5	7510.5	7510.5	7510.5	7510.5	7510.5	7510.5	7510.5	7510.5	7510.5
2.5°	7522.6	7526.6	7526.6	7522.6	7522.6	7514.6	7530.6	7518.6	7522.6	7538.6	7526.6
5°	7530.6	7534.7	7534.7	7530.6	7530.6	7530.6	7534.7	7534.7	7530.6	7526.6	7534.7
7.5°	7546.7	7542.7	7542.7	7534.7	7534.7	7526.6	7534.7	7522.6	7530.6	7522.6	7534.7
10°	7526.6	7530.6	7526.6	7522.6	7522.6	7518.6	7518.6	7506.4	7510.5	7498.4	7506.4
12.5°	7514.6	7510.5	7510.5	7502.4	7494.4	7486.3	7482.3	7470.1	7470.1	7441.9	7454.0
15°	7482.3	7486.3	7474.2	7458.1	7450.0	7429.8	7421.7	7405.6	7389.6	7369.4	7373.5
17.5°	7454.0	7441.9	7425.8	7409.7	7377.4	7361.3	7345.1	7320.9	7312.8	7288.8	7280.8
20°	7369.4	7361.3	7341.2	7312.8	7292.8	7256.5	7240.4	7216.2	7196.0	7171.9	7159.7
22.5°	7260.5	7252.4	7228.2	7200.0	7167.8	7151.7	7135.5	7091.2	7071.1	7046.9	7042.8
25°	7123.5	7111.4	7087.2	7055.0	7038.8	6994.5	6978.3	6946.1	6938.1	6913.8	6909.9
27.5°	6913.8	6897.7	6869.5	6829.2	6801.0	6772.7	6756.6	6732.3	6724.4	6700.2	6696.2
30°	6599.4	6579.2	6522.8	6506.7	6458.3	6430.0	6430.0	6397.8	6401.8	6385.7	6385.7
32.5°	6103.6	6071.3	6026.8	5994.7	5962.4	5946.3	5946.3	5934.2	5942.2	5942.2	5950.3
35°	5446.3	5402.1	5377.8	5357.7	5357.7	5373.8	5422.3	5434.3	5458.5	5478.6	5494.8
37.5°	4603.8	4599.9	4628.0	4652.2	4712.7	4781.2	4865.8	4938.5	5006.9	5055.4	5103.7
40°	3692.7	3793.5	3874.2	3987.1	4079.7	4212.8	4366.0	4491.0	4607.9	4692.6	4781.2
42.5°	2882.4	3011.4	3180.8	3346.0	3511.4	3692.7	3894.4	4067.7	4220.9	4337.8	4430.5
45°	2245.5	2422.8	2628.5	2838.2	3051.8	3277.6	3487.2	3664.6	3825.8	3946.7	4039.4
47.5°	1810.1	2003.6	2237.4	2467.2	2709.1	2946.9	3180.8	3333.9	3466.9	3563.8	3648.5
50°	1495.6	1701.2	1947.2	2209.2	2451.0	2689.0	2890.5	3039.6	3148.5	3233.1	3285.6
52.5°	1249.6	1467.3	1729.5	1991.5	2233.4	2451.0	2632.5	2745.3	2834.1	2894.5	2942.9
55°	1032.0	1241.7	1487.6	1733.5	1971.3	2176.9	2326.0	2410.8	2479.3	2515.6	2543.7
57.5°	842.6	1036.0	1261.8	1487.6	1693.2	1862.6	1979.4	2064.0	2096.3	2124.6	2120.5
60°	661.2	842.6	1048.2	1241.7	1419.1	1556.1	1640.8	1689.2	1713.3	1725.4	1717.3
62.5°	520.1	685.4	842.6	1011.8	1140.9	1257.8	1338.4	1338.4	1350.4	1354.5	1366.6
65°	387.0	512.0	649.0	774.0	878.8	955.5	999.8	1011.8	1028.0	1024.0	1015.9
67.5°	286.3	379.0	479.7	572.4	645.0	693.3	725.6	753.9	749.9	741.8	737.8
70°	197.5	258.1	346.7	403.2	455.5	504.0	512.0	516.0	520.1	524.1	516.0
72.5°	137.1	181.4	229.8	278.2	310.4	330.5	350.8	354.7	354.7	354.7	350.8
75°	68.5	92.7	137.1	157.3	185.4	193.5	209.6	209.6	221.7	205.5	201.5
77.5°	60.4	72.6	96.8	112.8	125.0	137.1	141.1	153.2	149.2	141.1	145.1
80°	36.3	44.4	60.4	68.5	84.6	88.6	92.7	96.8	92.7	96.8	96.8
82.5°	28.2	32.3	40.4	40.4	52.4	52.4	56.5	56.5	60.4	60.4	60.4
85°	16.1	28.2	24.2	48.4	32.3	32.3	40.4	48.4	40.4	40.4	48.4
87.5°	16.1	16.1	12.2	16.1	16.1	16.1	20.1	24.2	24.2	28.2	24.2
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: P249395

CATALOG NUMBER: LD8B175D010 ER8B175927 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	7510.5	7510.5	7510.5	7510.5
2.5°	7522.6	7530.6	7518.6	7514.6
5°	7534.7	7534.7	7526.6	7526.6
7.5°	7534.7	7534.7	7522.6	7514.6
10°	7502.4	7502.4	7490.4	7482.3
12.5°	7441.9	7441.9	7437.8	7425.8
15°	7365.4	7365.4	7349.2	7337.1
17.5°	7260.5	7268.6	7248.5	7248.5
20°	7147.7	7143.6	7127.6	7119.4
22.5°	7030.8	7022.7	7018.6	6994.5
25°	6905.8	6897.7	6885.6	6873.5
27.5°	6692.2	6688.1	6676.0	6659.9
30°	6365.6	6361.5	6345.4	6345.4
32.5°	5942.2	5938.2	5922.1	5926.2
35°	5502.8	5519.0	5510.9	5494.8
37.5°	5136.0	5148.1	5156.2	5148.1
40°	4829.6	4865.8	4869.9	4878.0
42.5°	4503.0	4551.4	4567.6	4575.6
45°	4112.0	4156.3	4192.7	4184.6
47.5°	3712.8	3745.1	3777.4	3753.2
50°	3329.9	3350.0	3362.2	3362.2
52.5°	2967.2	2967.2	2963.1	2967.2
55°	2551.8	2551.8	2535.8	2543.7
57.5°	2116.5	2124.6	2112.4	2092.3
60°	1713.3	1693.2	1685.1	1673.1
62.5°	1334.5	1334.5	1306.2	1342.5
65°	999.8	987.8	975.6	971.6
67.5°	725.6	721.7	709.5	705.5
70°	512.0	495.9	491.8	483.8
72.5°	342.7	342.7	334.6	334.6
75°	209.6	189.5	185.4	189.5
77.5°	145.1	141.1	141.1	137.1
80°	96.8	92.7	100.8	88.6
82.5°	60.4	64.5	60.4	64.5
85°	40.4	48.4	44.4	44.4
87.5°	24.2	24.2	24.2	24.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)