

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: P249188

Luminaire Tested: **LD8B175D010 ER8B1759730 8LBDW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249188
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 ER8B1759730 8LBDW0H
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13695.0 lumens
Efficiency: N/A
Efficacy: 77.3 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

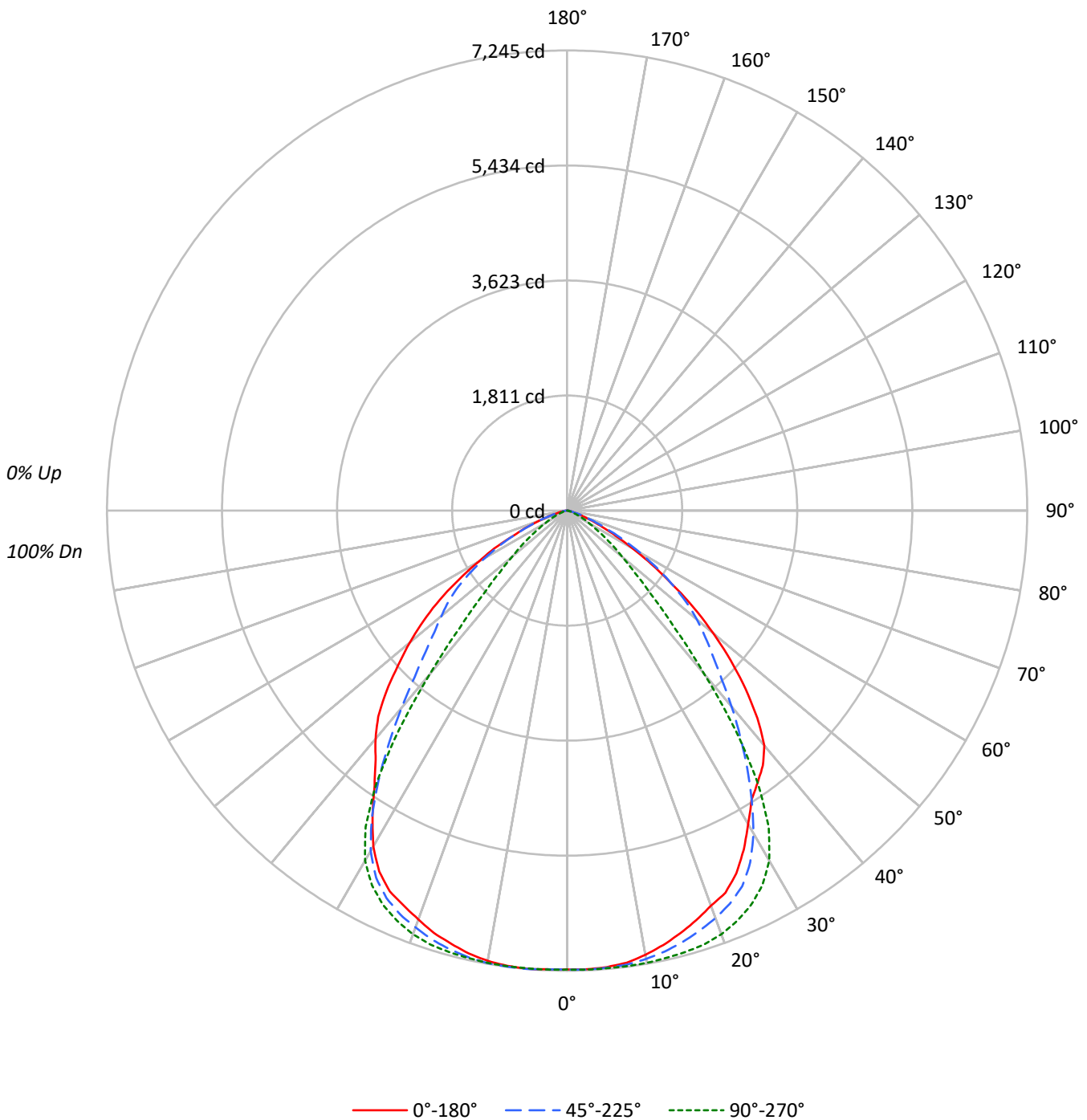
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	689.6	5.0
10°-20°	2002.7	14.6
20°-30°	3039.7	22.2
30°-40°	3192.6	23.3
40°-50°	2393.6	17.5
50°-60°	1535.8	11.2
60°-70°	657.0	4.8
70°-80°	155.2	1.1
80°-90°	28.9	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°	5732.0	41.9
0°-40°	8924.6	65.2
0°-60°	12853.9	93.9
0°-90°	13695.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13695.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7226	7226	7226	7226	7226	
5°	7214	7226	7234	7245	7241	685
15°	6888	7032	7195	7148	7059	1943
25°	6303	6524	6853	6729	6613	2879
35°	5228	4937	5232	5170	5286	3281
45°	3972	3246	1866	3153	4026	3042
55°	2009	2009	694	2094	2447	1822
65°	605	714	221	919	935	646
75°	93	109	31	186	182	136
85°	31	19	16	31	43	33
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°	7225.8	7225.8	7225.8	7225.8	7225.8	7225.8	7225.8	7225.8	7225.8	7225.8	7225.8
2.5°	7229.6	7237.4	7233.5	7233.5	7229.6	7233.5	7233.5	7241.3	7241.3	7233.5	7229.6
5°	7214.1	7221.9	7221.9	7214.1	7214.1	7233.5	7221.9	7229.6	7229.6	7225.8	7225.8
7.5°	7179.2	7179.2	7194.7	7183.1	7183.1	7194.7	7190.8	7198.6	7206.4	7210.3	7210.3
10°	7101.6	7109.4	7113.3	7113.3	7117.2	7128.8	7136.5	7152.1	7159.8	7167.6	7171.5
12.5°	7004.7	7016.3	7020.2	7016.3	7028.0	7043.4	7062.9	7082.3	7093.9	7109.4	7121.1
15°	6888.3	6888.3	6896.1	6907.7	6915.5	6938.8	6958.1	6981.4	7012.4	7031.9	7051.2
17.5°	6760.4	6768.1	6779.7	6779.7	6795.3	6834.0	6845.7	6880.6	6915.5	6934.9	6973.7
20°	6620.7	6628.4	6640.1	6647.9	6667.3	6698.3	6721.5	6752.6	6791.4	6826.3	6865.0
22.5°	6512.1	6496.6	6504.3	6512.1	6531.5	6558.7	6585.8	6624.5	6663.4	6698.3	6737.1
25°	6302.6	6306.5	6318.2	6325.9	6349.2	6372.5	6403.5	6450.0	6484.9	6523.8	6566.4
27.5°	6019.5	6023.4	6042.8	6042.8	6062.2	6101.0	6120.3	6159.1	6205.7	6244.5	6294.9
30°	5697.6	5705.3	5705.3	5720.9	5732.5	5751.9	5771.3	5810.1	5833.3	5868.3	5938.1
32.5°	5402.9	5410.6	5406.7	5402.9	5391.2	5387.3	5383.4	5391.2	5399.0	5410.6	5437.7
35°	5228.3	5208.9	5193.4	5166.3	5135.2	5096.4	5061.5	5015.0	4972.3	4937.4	4898.7
37.5°	5061.5	5057.6	5034.4	4995.6	4933.5	4863.7	4782.3	4681.4	4580.5	4472.0	4367.3
40°	4828.8	4817.1	4797.8	4743.5	4673.6	4588.3	4479.8	4355.6	4192.7	4025.9	3855.3
42.5°	4433.2	4437.1	4413.8	4371.1	4305.2	4223.7	4111.3	3975.5	3801.0	3603.1	3382.1
45°	3971.7	3971.7	3963.9	3928.9	3882.4	3816.5	3731.2	3618.7	3448.1	3246.3	3009.7
47.5°	3490.7	3494.6	3482.9	3475.2	3455.8	3413.2	3351.1	3265.8	3145.5	2951.6	2715.0
50°	3002.0	3002.0	3021.4	3017.5	3017.5	3002.0	2974.9	2924.4	2819.7	2664.6	2443.5
52.5°	2513.3	2521.1	2532.7	2548.2	2567.6	2598.6	2567.6	2544.3	2478.4	2358.1	2168.1
55°	2009.1	2016.9	2036.2	2063.4	2086.7	2117.7	2125.4	2125.4	2090.5	2009.1	1865.6
57.5°	1578.6	1566.9	1582.5	1605.7	1636.8	1667.8	1691.1	1718.2	1714.3	1660.0	1543.7
60°	1186.8	1190.7	1202.3	1225.7	1248.9	1276.1	1307.1	1330.3	1342.0	1314.9	1241.1
62.5°	864.9	864.9	880.4	903.7	915.3	954.1	973.5	985.2	996.8	992.9	946.4
65°	605.1	612.8	620.6	632.2	643.8	667.1	678.7	702.0	709.8	713.7	678.7
67.5°	426.7	415.0	422.8	430.5	442.1	457.7	481.0	481.0	492.5	492.5	469.3
70°	271.5	271.5	275.4	287.0	294.8	298.7	306.4	314.1	325.8	321.9	321.9
72.5°	182.3	178.4	182.3	186.2	190.1	201.7	201.7	205.6	213.3	217.2	201.7
75°	93.1	97.0	104.7	100.9	112.5	104.7	108.6	120.2	116.4	108.6	108.6
77.5°	77.5	77.5	77.5	73.7	81.4	81.4	77.5	85.3	81.4	81.4	77.5
80°	54.3	58.2	54.3	50.4	54.3	50.4	50.4	50.4	50.4	50.4	46.5
82.5°	42.7	34.9	38.8	34.9	38.8	38.8	34.9	31.0	31.0	34.9	31.0
85°	31.0	23.3	27.1	27.1	23.3	23.3	23.3	23.3	23.3	19.4	19.4
87.5°	19.4	11.7	11.7	11.7	15.5	15.5	15.5	11.7	15.5	15.5	7.8
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°	7225.8	7225.8	7225.8	7225.8	7225.8	7225.8	7225.8	7225.8	7225.8	7225.8	7225.8
2.5°	7237.4	7233.5	7241.3	7237.4	7237.4	7233.5	7237.4	7233.5	7241.3	7225.8	7229.6
5°	7237.4	7229.6	7233.5	7237.4	7241.3	7233.5	7233.5	7233.5	7241.3	7233.5	7237.4
7.5°	7221.9	7218.0	7229.6	7237.4	7233.5	7229.6	7237.4	7233.5	7241.3	7237.4	7245.1
10°	7190.8	7194.7	7202.5	7214.1	7218.0	7221.9	7229.6	7229.6	7241.3	7225.8	7233.5
12.5°	7144.3	7159.8	7179.2	7186.9	7202.5	7202.5	7210.3	7214.1	7221.9	7218.0	7229.6
15°	7086.1	7105.5	7128.8	7148.2	7167.6	7179.2	7190.8	7194.7	7206.4	7194.7	7198.6
17.5°	7016.3	7039.6	7074.5	7097.7	7128.8	7140.4	7155.9	7163.7	7175.4	7167.6	7171.5
20°	6919.3	6946.5	6985.3	7020.2	7039.6	7066.7	7086.1	7097.7	7105.5	7097.7	7101.6
22.5°	6783.6	6822.4	6872.8	6900.0	6938.8	6962.0	6965.9	6993.1	7012.4	6993.1	7000.8
25°	6624.5	6663.4	6702.2	6760.4	6795.3	6822.4	6849.6	6853.4	6872.8	6868.9	6865.0
27.5°	6360.8	6411.3	6477.2	6523.8	6570.3	6613.0	6644.0	6651.7	6671.1	6663.4	6667.3
30°	6000.1	6054.5	6116.5	6190.2	6256.1	6298.7	6337.6	6364.7	6384.1	6372.5	6368.6
32.5°	5488.2	5542.5	5608.4	5682.1	5759.7	5821.7	5868.3	5903.2	5926.4	5918.7	5899.3
35°	4902.5	4918.0	4960.7	5018.9	5084.8	5150.7	5193.4	5232.1	5259.3	5267.1	5267.1
37.5°	4301.3	4250.9	4219.9	4219.9	4258.6	4285.8	4324.6	4347.8	4390.5	4406.0	4417.7
40°	3719.5	3603.1	3494.6	3413.2	3358.9	3355.0	3355.0	3366.6	3405.4	3455.8	3502.4
42.5°	3199.8	3013.6	2846.9	2695.6	2587.0	2525.0	2497.8	2501.7	2532.7	2579.2	2656.8
45°	2784.8	2552.1	2342.7	2160.4	2013.0	1916.0	1869.5	1865.6	1888.8	1943.1	2028.5
47.5°	2462.9	2214.6	1978.0	1768.6	1609.6	1504.9	1450.6	1435.1	1450.6	1501.0	1601.9
50°	2195.3	1939.3	1695.0	1477.7	1307.1	1198.5	1148.0	1128.7	1148.0	1190.7	1291.5
52.5°	1947.0	1683.3	1454.5	1245.0	1062.7	969.6	915.3	903.7	915.3	965.7	1047.2
55°	1660.0	1435.1	1210.1	1000.6	841.7	748.6	705.9	694.3	705.9	752.5	837.8
57.5°	1376.9	1183.0	985.2	795.1	659.4	577.9	539.1	523.6	550.7	581.8	682.6
60°	1113.1	958.0	791.2	624.5	512.0	438.3	407.2	403.3	411.1	449.9	519.7
62.5°	872.7	744.7	612.8	477.1	384.0	352.9	314.1	310.3	318.0	341.3	395.6
65°	628.3	546.9	446.0	349.1	275.4	232.7	217.2	221.1	228.8	244.4	294.8
67.5°	438.3	380.1	310.3	244.4	190.1	170.6	155.2	151.3	155.2	182.3	209.4
70°	294.8	259.8	209.4	186.2	131.9	104.7	108.6	97.0	112.5	112.5	135.7
72.5°	193.9	170.6	139.6	108.6	93.1	73.7	73.7	69.8	77.5	81.4	100.9
75°	100.9	77.5	77.5	54.3	38.8	19.4	34.9	31.0	27.1	31.0	38.8
77.5°	69.8	58.2	54.3	42.7	38.8	31.0	31.0	31.0	31.0	34.9	38.8
80°	42.7	42.7	31.0	27.1	23.3	19.4	23.3	23.3	23.3	23.3	27.1
82.5°	27.1	23.3	23.3	19.4	19.4	15.5	15.5	15.5	15.5	15.5	23.3
85°	23.3	15.5	15.5	11.7	15.5	27.1	11.7	15.5	15.5	15.5	11.7
87.5°	7.8	11.7	11.7	11.7	7.8	3.9	7.8	11.7	11.7	19.4	15.5
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°	7225.8	7225.8	7225.8	7225.8	7225.8	7225.8	7225.8	7225.8	7225.8	7225.8	7225.8
2.5°	7237.4	7241.3	7241.3	7237.4	7237.4	7229.6	7245.1	7233.5	7237.4	7252.9	7241.3
5°	7245.1	7249.0	7249.0	7245.1	7245.1	7245.1	7249.0	7249.0	7245.1	7241.3	7249.0
7.5°	7260.7	7256.8	7256.8	7249.0	7249.0	7241.3	7249.0	7237.4	7245.1	7237.4	7249.0
10°	7241.3	7245.1	7241.3	7237.4	7237.4	7233.5	7233.5	7221.9	7225.8	7214.1	7221.9
12.5°	7229.6	7225.8	7225.8	7218.0	7210.3	7202.5	7198.6	7186.9	7186.9	7159.8	7171.5
15°	7198.6	7202.5	7190.8	7175.4	7167.6	7148.2	7140.4	7124.9	7109.4	7090.0	7093.9
17.5°	7171.5	7159.8	7144.3	7128.8	7097.7	7082.3	7066.7	7043.4	7035.7	7012.4	7004.7
20°	7090.0	7082.3	7062.9	7035.7	7016.3	6981.4	6965.9	6942.7	6923.2	6900.0	6888.3
22.5°	6985.3	6977.5	6954.2	6927.1	6896.1	6880.6	6865.0	6822.4	6803.0	6779.7	6775.8
25°	6853.4	6841.8	6818.5	6787.5	6771.9	6729.3	6713.8	6682.7	6675.0	6651.7	6647.9
27.5°	6651.7	6636.2	6609.1	6570.3	6543.1	6516.0	6500.5	6477.2	6469.5	6446.1	6442.3
30°	6349.2	6329.8	6275.5	6260.0	6213.4	6186.3	6186.3	6155.3	6159.1	6143.7	6143.7
32.5°	5872.2	5841.1	5798.4	5767.4	5736.4	5720.9	5720.9	5709.2	5717.0	5717.0	5724.8
35°	5239.9	5197.3	5174.0	5154.6	5154.6	5170.1	5216.7	5228.3	5251.6	5271.0	5286.5
37.5°	4429.3	4425.5	4452.6	4475.9	4534.0	4600.0	4681.4	4751.3	4817.1	4863.7	4910.2
40°	3552.8	3649.7	3727.3	3835.9	3925.1	4053.1	4200.5	4320.7	4433.2	4514.7	4600.0
42.5°	2773.1	2897.3	3060.2	3219.2	3378.2	3552.8	3746.7	3913.5	4060.9	4173.3	4262.5
45°	2160.4	2331.0	2528.9	2730.5	2936.1	3153.3	3355.0	3525.6	3680.8	3797.1	3886.3
47.5°	1741.5	1927.7	2152.6	2373.7	2606.4	2835.2	3060.2	3207.6	3335.5	3428.6	3510.1
50°	1438.9	1636.8	1873.4	2125.4	2358.1	2587.0	2780.9	2924.4	3029.2	3110.6	3161.0
52.5°	1202.3	1411.8	1663.9	1916.0	2148.7	2358.1	2532.7	2641.3	2726.6	2784.8	2831.3
55°	992.9	1194.6	1431.2	1667.8	1896.6	2094.4	2237.9	2319.4	2385.3	2420.2	2447.3
57.5°	810.7	996.8	1214.0	1431.2	1629.0	1791.9	1904.4	1985.8	2016.9	2044.0	2040.1
60°	636.1	810.7	1008.4	1194.6	1365.3	1497.1	1578.6	1625.1	1648.4	1660.0	1652.2
62.5°	500.3	659.4	810.7	973.5	1097.6	1210.1	1287.7	1287.7	1299.3	1303.2	1314.9
65°	372.3	492.5	624.5	744.7	845.5	919.2	961.9	973.5	989.1	985.2	977.4
67.5°	275.4	364.6	461.5	550.7	620.6	667.1	698.1	725.3	721.4	713.7	709.8
70°	190.1	248.3	333.6	387.9	438.3	484.9	492.5	496.4	500.3	504.2	496.4
72.5°	131.9	174.5	221.1	267.6	298.7	318.0	337.5	341.3	341.3	341.3	337.5
75°	66.0	89.2	131.9	151.3	178.4	186.2	201.7	201.7	213.3	197.8	193.9
77.5°	58.2	69.8	93.1	108.6	120.2	131.9	135.7	147.4	143.5	135.7	139.6
80°	34.9	42.7	58.2	66.0	81.4	85.3	89.2	93.1	89.2	93.1	93.1
82.5°	27.1	31.0	38.8	38.8	50.4	50.4	54.3	54.3	58.2	58.2	58.2
85°	15.5	27.1	23.3	46.5	31.0	31.0	38.8	46.5	38.8	38.8	46.5
87.5°	15.5	15.5	11.7	15.5	15.5	15.5	19.4	23.3	23.3	27.1	23.3
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: P249188

CATALOG NUMBER: LD8B175D010 ER8B1759730 8LBDW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	7225.8	7225.8	7225.8	7225.8
2.5°	7237.4	7245.1	7233.5	7229.6
5°	7249.0	7249.0	7241.3	7241.3
7.5°	7249.0	7249.0	7237.4	7229.6
10°	7218.0	7218.0	7206.4	7198.6
12.5°	7159.8	7159.8	7155.9	7144.3
15°	7086.1	7086.1	7070.6	7059.0
17.5°	6985.3	6993.1	6973.7	6973.7
20°	6876.7	6872.8	6857.3	6849.6
22.5°	6764.2	6756.5	6752.6	6729.3
25°	6644.0	6636.2	6624.5	6613.0
27.5°	6438.4	6434.6	6422.9	6407.4
30°	6124.2	6120.3	6104.9	6104.9
32.5°	5717.0	5713.1	5697.6	5701.5
35°	5294.2	5309.8	5302.0	5286.5
37.5°	4941.3	4952.9	4960.7	4952.9
40°	4646.5	4681.4	4685.3	4693.1
42.5°	4332.4	4378.9	4394.4	4402.1
45°	3956.1	3998.8	4033.7	4025.9
47.5°	3572.1	3603.1	3634.2	3610.9
50°	3203.7	3223.1	3234.7	3234.7
52.5°	2854.7	2854.7	2850.8	2854.7
55°	2455.1	2455.1	2439.6	2447.3
57.5°	2036.2	2044.0	2032.3	2013.0
60°	1648.4	1629.0	1621.2	1609.6
62.5°	1283.8	1283.8	1256.7	1291.5
65°	961.9	950.3	938.6	934.7
67.5°	698.1	694.3	682.6	678.7
70°	492.5	477.1	473.2	465.4
72.5°	329.7	329.7	321.9	321.9
75°	201.7	182.3	178.4	182.3
77.5°	139.6	135.7	135.7	131.9
80°	93.1	89.2	97.0	85.3
82.5°	58.2	62.1	58.2	62.1
85°	38.8	46.5	42.7	42.7
87.5°	23.3	23.3	23.3	23.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)