

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 ER8B1759730 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 ER8B1759730 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: 13624.0 lumens
Efficiency: N/A
Efficacy: 76.9 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

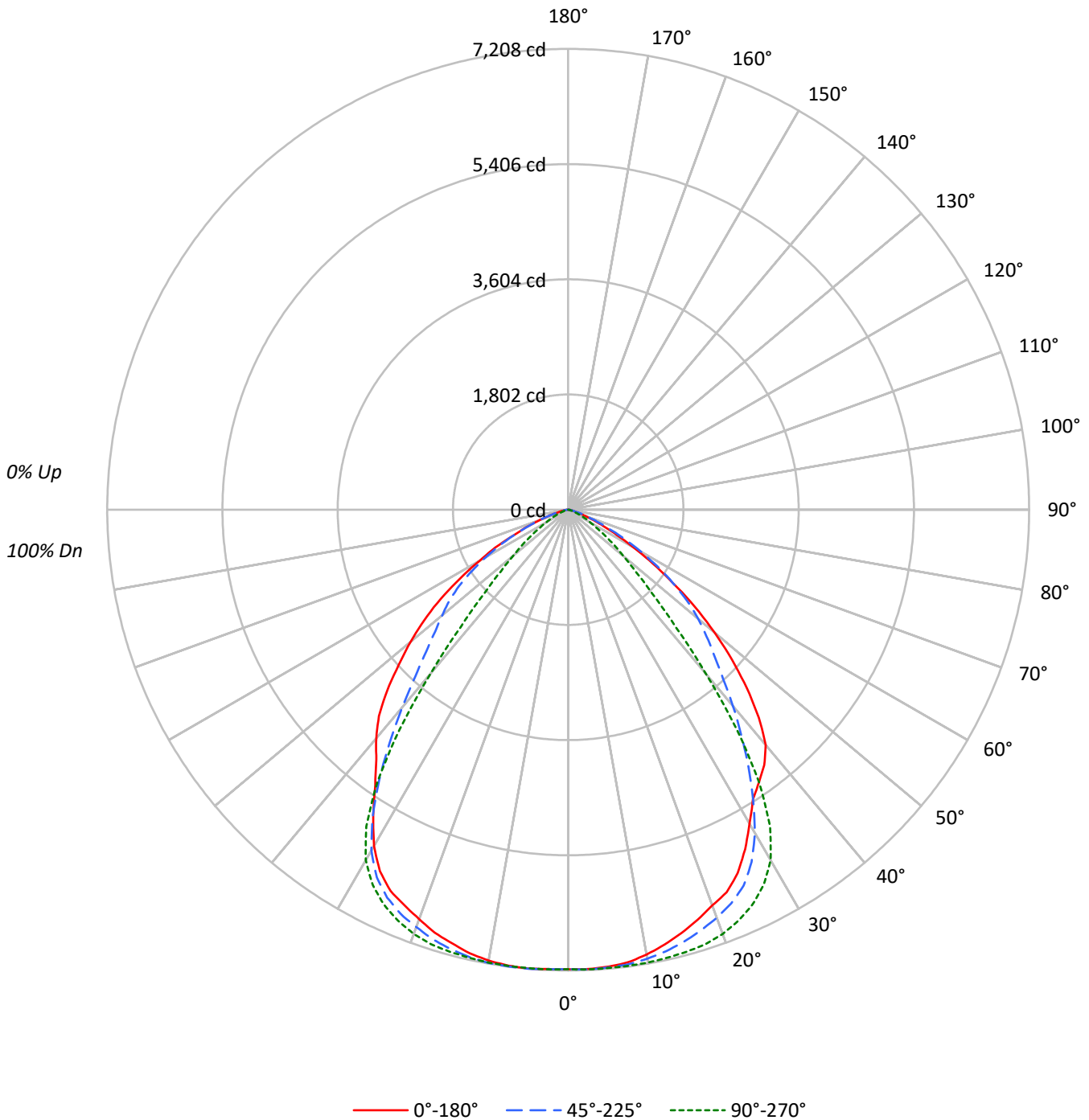
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	686.0	5.0
10°-20°	1992.3	14.6
20°-30°	3023.9	22.2
30°-40°	3176.0	23.3
40°-50°	2381.2	17.5
50°-60°	1527.8	11.2
60°-70°	653.6	4.8
70°-80°	154.4	1.1
80°-90°	28.7	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°	5702.3	41.9
0°-40°	8878.3	65.2
0°-60°	12787.3	93.9
0°-90°	13624.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13624.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7188	7188	7188	7188	7188	
5°	7177	7188	7196	7208	7204	682
15°	6853	6995	7157	7111	7022	1933
25°	6270	6490	6818	6694	6579	2864
35°	5201	4912	5205	5143	5259	3264
45°	3951	3230	1856	3137	4005	3026
55°	1999	1999	691	2084	2435	1813
65°	602	710	220	914	930	643
75°	93	108	31	185	181	135
85°	31	19	15	31	42	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°	7188.3	7188.3	7188.3	7188.3	7188.3	7188.3	7188.3	7188.3	7188.3	7188.3	7188.3
2.5°	7192.2	7199.9	7196.0	7196.0	7192.2	7196.0	7196.0	7203.8	7203.8	7196.0	7192.2
5°	7176.7	7184.4	7184.4	7176.7	7176.7	7196.0	7184.4	7192.2	7192.2	7188.3	7188.3
7.5°	7142.0	7142.0	7157.4	7145.9	7145.9	7157.4	7153.5	7161.3	7169.0	7172.9	7172.9
10°	7064.8	7072.5	7076.4	7076.4	7080.3	7091.8	7099.5	7115.0	7122.7	7130.4	7134.3
12.5°	6968.4	6979.9	6983.8	6979.9	6991.5	7006.9	7026.3	7045.5	7057.2	7072.5	7084.2
15°	6852.6	6852.6	6860.3	6871.9	6879.7	6902.8	6922.1	6945.2	6976.1	6995.4	7014.7
17.5°	6725.3	6733.0	6744.6	6744.6	6760.0	6798.6	6810.2	6844.9	6879.7	6898.9	6937.5
20°	6586.4	6594.1	6605.7	6613.4	6632.7	6663.6	6686.7	6717.6	6756.2	6790.9	6829.4
22.5°	6478.3	6462.9	6470.6	6478.3	6497.7	6524.7	6551.7	6590.2	6628.8	6663.6	6702.2
25°	6270.0	6273.8	6285.4	6293.1	6316.3	6339.4	6370.3	6416.6	6451.3	6489.9	6532.3
27.5°	5988.3	5992.2	6011.5	6011.5	6030.7	6069.3	6088.6	6127.2	6173.6	6212.1	6262.3
30°	5668.1	5675.7	5675.7	5691.2	5702.7	5722.1	5741.4	5780.0	5803.1	5837.8	5907.3
32.5°	5374.9	5382.5	5378.6	5374.9	5363.2	5359.4	5355.5	5363.2	5371.0	5382.5	5409.5
35°	5201.2	5181.9	5166.5	5139.5	5108.6	5070.0	5035.3	4989.0	4946.5	4911.8	4873.3
37.5°	5035.3	5031.4	5008.3	4969.7	4907.9	4838.5	4757.5	4657.2	4556.8	4448.8	4344.7
40°	4803.8	4792.2	4772.9	4718.9	4649.4	4564.5	4456.5	4333.0	4170.9	4005.1	3835.3
42.5°	4410.2	4414.1	4390.9	4348.4	4282.9	4201.8	4089.9	3954.9	3781.3	3584.5	3364.6
45°	3951.1	3951.1	3943.3	3908.6	3862.3	3796.7	3711.8	3600.0	3430.2	3229.5	2994.1
47.5°	3472.6	3476.5	3464.9	3457.2	3437.9	3395.5	3333.7	3248.8	3129.2	2936.2	2700.9
50°	2986.5	2986.5	3005.7	3001.9	3001.9	2986.5	2959.5	2909.2	2805.1	2650.8	2430.9
52.5°	2500.3	2508.0	2519.6	2535.0	2554.3	2585.1	2554.3	2531.1	2465.5	2345.9	2156.9
55°	1998.7	2006.4	2025.7	2052.7	2075.9	2106.8	2114.4	2114.4	2079.7	1998.7	1855.9
57.5°	1570.4	1558.8	1574.3	1597.4	1628.3	1659.2	1682.3	1709.3	1705.4	1651.4	1535.7
60°	1180.7	1184.6	1196.1	1219.3	1242.4	1269.4	1300.3	1323.4	1335.1	1308.1	1234.7
62.5°	860.5	860.5	875.8	899.0	910.6	949.2	968.5	980.1	991.6	987.7	941.5
65°	602.0	609.6	617.3	629.0	640.5	663.6	675.2	698.4	706.1	710.0	675.2
67.5°	424.5	412.9	420.6	428.2	439.9	455.3	478.5	478.5	490.0	490.0	466.9
70°	270.1	270.1	274.0	285.5	293.2	297.1	304.8	312.5	324.1	320.2	320.2
72.5°	181.4	177.5	181.4	185.2	189.1	200.6	200.6	204.5	212.2	216.1	200.6
75°	92.6	96.5	104.1	100.4	111.9	104.1	108.0	119.6	115.7	108.0	108.0
77.5°	77.1	77.1	77.1	73.4	81.0	81.0	77.1	84.9	81.0	81.0	77.1
80°	54.0	57.9	54.0	50.1	54.0	50.1	50.1	50.1	50.1	50.1	46.3
82.5°	42.5	34.7	38.6	34.7	38.6	38.6	34.7	30.9	30.9	34.7	30.9
85°	30.9	23.1	27.0	27.0	23.1	23.1	23.1	23.1	23.1	19.3	19.3
87.5°	19.3	11.6	11.6	11.6	15.4	15.4	15.4	11.6	15.4	15.4	7.7
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	7188.3	7188.3	7188.3	7188.3	7188.3	7188.3	7188.3	7188.3	7188.3	7188.3	7188.3
2.5°	7199.9	7196.0	7203.8	7199.9	7199.9	7196.0	7199.9	7196.0	7203.8	7188.3	7192.2
5°	7199.9	7192.2	7196.0	7199.9	7203.8	7196.0	7196.0	7196.0	7203.8	7196.0	7199.9
7.5°	7184.4	7180.6	7192.2	7199.9	7196.0	7192.2	7199.9	7196.0	7203.8	7199.9	7207.6
10°	7153.5	7157.4	7165.2	7176.7	7180.6	7184.4	7192.2	7192.2	7203.8	7188.3	7196.0
12.5°	7107.3	7122.7	7142.0	7149.7	7165.2	7165.2	7172.9	7176.7	7184.4	7180.6	7192.2
15°	7049.4	7068.7	7091.8	7111.2	7130.4	7142.0	7153.5	7157.4	7169.0	7157.4	7161.3
17.5°	6979.9	7003.1	7037.8	7060.9	7091.8	7103.4	7118.8	7126.5	7138.2	7130.4	7134.3
20°	6883.4	6910.5	6949.1	6983.8	7003.1	7030.1	7049.4	7060.9	7068.7	7060.9	7064.8
22.5°	6748.4	6787.0	6837.2	6864.2	6902.8	6925.9	6929.8	6956.8	6976.1	6956.8	6964.5
25°	6590.2	6628.8	6667.4	6725.3	6760.0	6787.0	6814.0	6817.9	6837.2	6833.3	6829.4
27.5°	6327.8	6378.1	6443.6	6489.9	6536.2	6578.7	6609.6	6617.2	6636.6	6628.8	6632.7
30°	5969.0	6023.1	6084.8	6158.1	6223.7	6266.1	6304.7	6331.7	6351.0	6339.4	6335.6
32.5°	5459.7	5513.7	5579.4	5652.6	5729.8	5791.5	5837.8	5872.6	5895.7	5888.0	5868.7
35°	4877.1	4892.5	4935.0	4992.9	5058.4	5124.0	5166.5	5205.0	5232.0	5239.8	5239.8
37.5°	4279.0	4228.9	4198.0	4198.0	4236.6	4263.6	4302.2	4325.3	4367.8	4383.2	4394.8
40°	3700.2	3584.5	3476.5	3395.5	3341.5	3337.6	3337.6	3349.1	3387.7	3437.9	3484.2
42.5°	3183.2	2998.0	2832.1	2681.6	2573.6	2511.9	2484.9	2488.7	2519.6	2565.9	2643.0
45°	2770.4	2538.9	2330.5	2149.2	2002.5	1906.0	1859.8	1855.9	1879.0	1933.0	2018.0
47.5°	2450.1	2203.2	1967.8	1759.4	1601.3	1497.1	1443.1	1427.7	1443.1	1493.2	1593.5
50°	2183.9	1929.3	1686.2	1470.1	1300.3	1192.3	1142.1	1122.8	1142.1	1184.6	1284.8
52.5°	1936.9	1674.6	1446.9	1238.6	1057.2	964.6	910.6	899.0	910.6	960.7	1041.8
55°	1651.4	1427.7	1203.8	995.5	837.3	744.7	702.2	690.7	702.2	748.6	833.5
57.5°	1369.8	1176.8	980.1	791.0	656.0	574.9	536.3	520.9	547.9	578.7	679.1
60°	1107.3	953.1	787.1	621.2	509.3	436.0	405.1	401.2	409.0	447.6	517.0
62.5°	868.2	740.8	609.6	474.6	382.0	351.1	312.5	308.7	316.4	339.5	393.6
65°	625.1	544.1	443.7	347.2	274.0	231.5	216.1	220.0	227.6	243.1	293.2
67.5°	436.0	378.1	308.7	243.1	189.1	169.8	154.4	150.5	154.4	181.4	208.4
70°	293.2	258.5	208.4	185.2	131.2	104.1	108.0	96.5	111.9	111.9	135.0
72.5°	192.9	169.8	138.9	108.0	92.6	73.4	73.4	69.5	77.1	81.0	100.4
75°	100.4	77.1	77.1	54.0	38.6	19.3	34.7	30.9	27.0	30.9	38.6
77.5°	69.5	57.9	54.0	42.5	38.6	30.9	30.9	30.9	30.9	34.7	38.6
80°	42.5	42.5	30.9	27.0	23.1	19.3	23.1	23.1	23.1	23.1	27.0
82.5°	27.0	23.1	23.1	19.3	19.3	15.4	15.4	15.4	15.4	15.4	23.1
85°	23.1	15.4	15.4	11.6	15.4	27.0	11.6	15.4	15.4	15.4	11.6
87.5°	7.7	11.6	11.6	11.6	7.7	3.9	7.7	11.6	11.6	19.3	15.4
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°	7188.3	7188.3	7188.3	7188.3	7188.3	7188.3	7188.3	7188.3	7188.3	7188.3	7188.3
2.5°	7199.9	7203.8	7203.8	7199.9	7199.9	7192.2	7207.6	7196.0	7199.9	7215.3	7203.8
5°	7207.6	7211.4	7211.4	7207.6	7207.6	7207.6	7211.4	7211.4	7207.6	7203.8	7211.4
7.5°	7223.0	7219.2	7219.2	7211.4	7211.4	7203.8	7211.4	7199.9	7207.6	7199.9	7211.4
10°	7203.8	7207.6	7203.8	7199.9	7199.9	7196.0	7196.0	7184.4	7188.3	7176.7	7184.4
12.5°	7192.2	7188.3	7188.3	7180.6	7172.9	7165.2	7161.3	7149.7	7149.7	7122.7	7134.3
15°	7161.3	7165.2	7153.5	7138.2	7130.4	7111.2	7103.4	7087.9	7072.5	7053.3	7057.2
17.5°	7134.3	7122.7	7107.3	7091.8	7060.9	7045.5	7030.1	7006.9	6999.2	6976.1	6968.4
20°	7053.3	7045.5	7026.3	6999.2	6979.9	6945.2	6929.8	6906.7	6887.3	6864.2	6852.6
22.5°	6949.1	6941.3	6918.2	6891.2	6860.3	6844.9	6829.4	6787.0	6767.7	6744.6	6740.7
25°	6817.9	6806.3	6783.2	6752.3	6736.8	6694.4	6678.9	6648.1	6640.4	6617.2	6613.4
27.5°	6617.2	6601.8	6574.8	6536.2	6509.2	6482.2	6466.8	6443.6	6435.9	6412.7	6408.9
30°	6316.3	6297.0	6243.0	6227.6	6181.2	6154.2	6154.2	6123.3	6127.2	6111.8	6111.8
32.5°	5841.7	5810.8	5768.4	5737.5	5706.6	5691.2	5691.2	5679.6	5687.4	5687.4	5695.1
35°	5212.8	5170.4	5147.1	5127.9	5127.9	5143.3	5189.6	5201.2	5224.4	5243.6	5259.1
37.5°	4406.3	4402.5	4429.5	4452.7	4510.5	4576.2	4657.2	4726.6	4792.2	4838.5	4884.8
40°	3534.3	3630.8	3708.0	3816.1	3904.7	4032.1	4178.7	4298.3	4410.2	4491.3	4576.2
42.5°	2758.8	2882.2	3044.3	3202.5	3360.7	3534.3	3727.3	3893.2	4039.8	4151.7	4240.4
45°	2149.2	2318.9	2515.7	2716.4	2920.9	3137.0	3337.6	3507.3	3661.7	3777.4	3866.2
47.5°	1732.4	1917.7	2141.4	2361.4	2592.9	2820.5	3044.3	3191.0	3318.2	3410.8	3491.9
50°	1431.4	1628.3	1863.7	2114.4	2345.9	2573.6	2766.5	2909.2	3013.5	3094.5	3144.6
52.5°	1196.1	1404.4	1655.3	1906.0	2137.5	2345.9	2519.6	2627.6	2712.5	2770.4	2816.6
55°	987.7	1188.4	1423.8	1659.2	1886.8	2083.5	2226.3	2307.4	2372.9	2407.6	2434.6
57.5°	806.4	991.6	1207.7	1423.8	1620.5	1782.6	1894.5	1975.5	2006.4	2033.4	2029.5
60°	632.8	806.4	1003.2	1188.4	1358.2	1489.3	1570.4	1616.7	1639.8	1651.4	1643.7
62.5°	497.7	656.0	806.4	968.5	1091.9	1203.8	1281.0	1281.0	1292.6	1296.4	1308.1
65°	370.4	490.0	621.2	740.8	841.1	914.5	956.9	968.5	983.9	980.1	972.3
67.5°	274.0	362.7	459.1	547.9	617.3	663.6	694.5	721.6	717.7	710.0	706.1
70°	189.1	247.0	331.9	385.9	436.0	482.3	490.0	493.9	497.7	501.6	493.9
72.5°	131.2	173.6	220.0	266.2	297.1	316.4	335.7	339.5	339.5	339.5	335.7
75°	65.6	88.7	131.2	150.5	177.5	185.2	200.6	200.6	212.2	196.8	192.9
77.5°	57.9	69.5	92.6	108.0	119.6	131.2	135.0	146.6	142.7	135.0	138.9
80°	34.7	42.5	57.9	65.6	81.0	84.9	88.7	92.6	88.7	92.6	92.6
82.5°	27.0	30.9	38.6	38.6	50.1	50.1	54.0	54.0	57.9	57.9	57.9
85°	15.4	27.0	23.1	46.3	30.9	30.9	38.6	46.3	38.6	38.6	46.3
87.5°	15.4	15.4	11.6	15.4	15.4	15.4	19.3	23.1	23.1	27.0	23.1
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 ER8B1759730 8LBDW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	7188.3	7188.3	7188.3	7188.3
2.5°	7199.9	7207.6	7196.0	7192.2
5°	7211.4	7211.4	7203.8	7203.8
7.5°	7211.4	7211.4	7199.9	7192.2
10°	7180.6	7180.6	7169.0	7161.3
12.5°	7122.7	7122.7	7118.8	7107.3
15°	7049.4	7049.4	7033.9	7022.4
17.5°	6949.1	6956.8	6937.5	6937.5
20°	6841.0	6837.2	6821.8	6814.0
22.5°	6729.2	6721.4	6717.6	6694.4
25°	6609.6	6601.8	6590.2	6578.7
27.5°	6405.1	6401.2	6389.6	6374.2
30°	6092.5	6088.6	6073.2	6073.2
32.5°	5687.4	5683.5	5668.1	5672.0
35°	5266.8	5282.2	5274.5	5259.1
37.5°	4915.7	4927.3	4935.0	4927.3
40°	4622.4	4657.2	4661.0	4668.8
42.5°	4309.9	4356.2	4371.7	4379.3
45°	3935.6	3978.1	4012.8	4005.1
47.5°	3553.6	3584.5	3615.3	3592.2
50°	3187.1	3206.4	3218.0	3218.0
52.5°	2839.9	2839.9	2836.0	2839.9
55°	2442.4	2442.4	2427.0	2434.6
57.5°	2025.7	2033.4	2021.8	2002.5
60°	1639.8	1620.5	1612.8	1601.3
62.5°	1277.2	1277.2	1250.2	1284.8
65°	956.9	945.3	933.7	929.8
67.5°	694.5	690.7	679.1	675.2
70°	490.0	474.6	470.7	463.0
72.5°	328.0	328.0	320.2	320.2
75°	200.6	181.4	177.5	181.4
77.5°	138.9	135.0	135.0	131.2
80°	92.6	88.7	96.5	84.9
82.5°	57.9	61.7	57.9	61.7
85°	38.6	46.3	42.5	42.5
87.5°	23.1	23.1	23.1	23.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)