

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: P249216

Luminaire Tested: **LD8B200D010 ER8B200835 8LBDW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249216
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: LD8B200D010 ER8B200835 8LBDW0WMH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3500 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21800.0 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

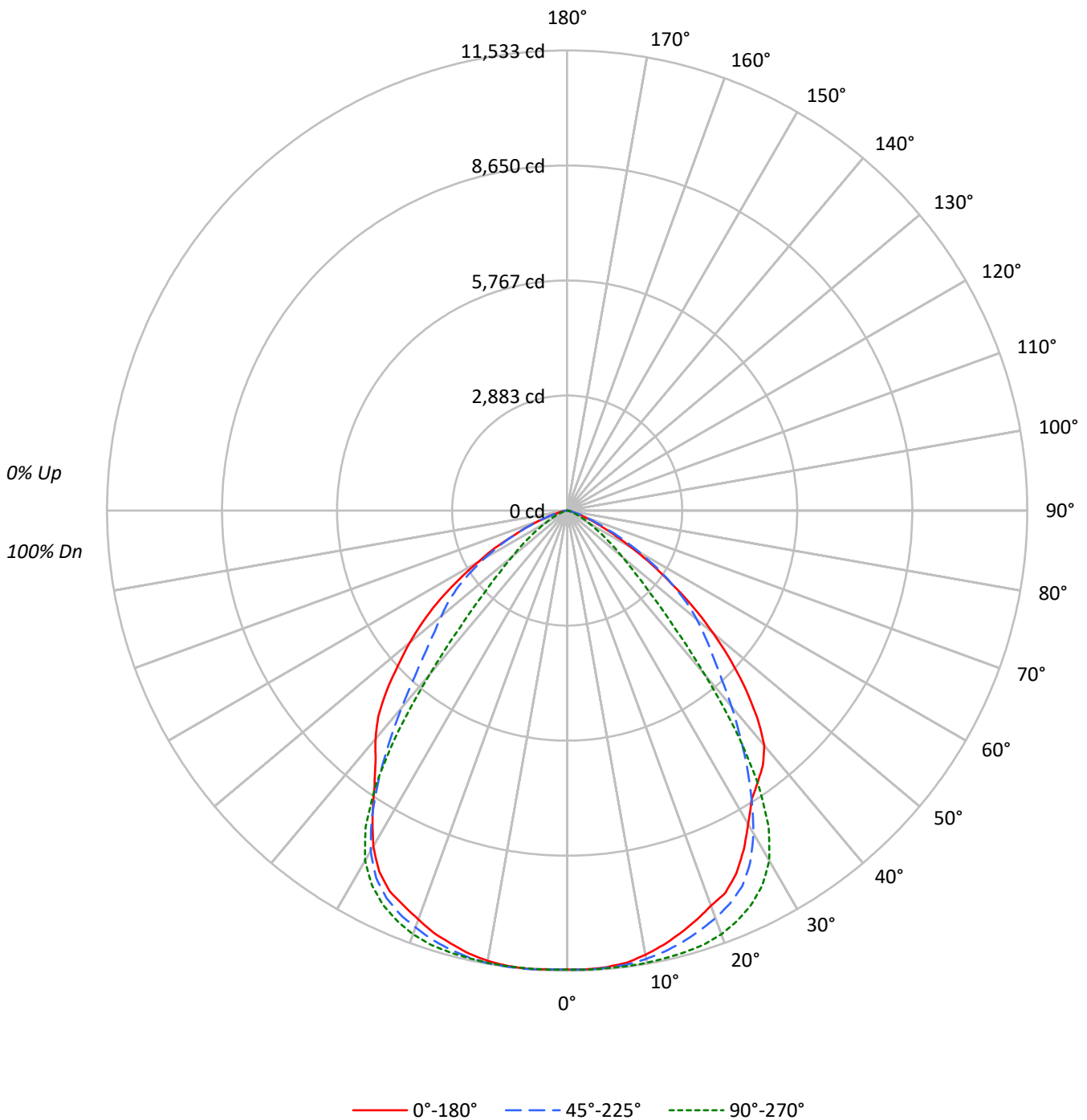
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	354682	354682	354682
5°	355461	356421	356805
10°	353967	360348	358801
15°	350045	365617	358722
20°	345844	370757	357795
25°	341354	371186	358162
30°	322939	360749	346022
35°	313298	313523	316783
40°	309416	215721	300721
45°	275706	129506	279473
50°	229248	86188	247017
55°	171935	59417	209439
60°	116512	39594	158018
65°	70280	25684	108565
70°	38967	13921	66790
75°	17657	5886	34575
80°	15343	6570	24115
85°	17478	8704	24059



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1097.7	5.0
10°-20°	3187.9	14.6
20°-30°	4838.7	22.2
30°-40°	5082.0	23.3
40°-50°	3810.2	17.5
50°-60°	2444.7	11.2
60°-70°	1045.8	4.8
70°-80°	247.1	1.1
80°-90°	46.0	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°	9124.3	41.9
0°-40°	14206.3	65.2
0°-60°	20461.2	93.9
0°-90°	21800.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21800.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11502	11502	11502	11502	11502	
5°	11484	11502	11514	11533	11527	###
15°	10965	11194	11453	11379	11237	3093
25°	10033	10385	10910	10712	10527	4583
35°	8323	7859	8329	8230	8415	5223
45°	6322	5168	2970	5020	6409	4842
55°	3198	3198	1105	3334	3896	2901
65°	963	1136	352	1463	1488	1028
75°	148	173	49	296	290	216
85°	49	31	25	49	68	52
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°	11502.1	11502.1	11502.1	11502.1	11502.1	11502.1	11502.1	11502.1	11502.1	11502.1	11502.1
2.5°	11508.3	11520.7	11514.5	11514.5	11508.3	11514.5	11514.5	11526.9	11526.9	11514.5	11508.3
5°	11483.5	11495.9	11495.9	11483.5	11483.5	11514.5	11495.9	11508.3	11508.3	11502.1	11502.1
7.5°	11428.1	11428.1	11452.7	11434.3	11434.3	11452.7	11446.5	11458.9	11471.3	11477.5	11477.5
10°	11304.5	11316.9	11323.1	11323.1	11329.3	11347.7	11360.1	11384.9	11397.1	11409.5	11415.7
12.5°	11150.3	11168.7	11174.9	11168.7	11187.3	11211.9	11242.9	11273.7	11292.3	11316.9	11335.5
15°	10964.9	10964.9	10977.3	10995.9	11008.3	11045.3	11076.1	11113.1	11162.5	11193.5	11224.3
17.5°	10761.3	10773.7	10792.1	10792.1	10816.9	10878.5	10897.1	10952.7	11008.3	11039.1	11100.9
20°	10539.1	10551.3	10569.9	10582.3	10613.1	10662.5	10699.5	10748.9	10810.7	10866.3	10927.9
22.5°	10366.1	10341.5	10353.7	10366.1	10397.0	10440.3	10483.5	10545.1	10606.9	10662.5	10724.3
25°	10032.7	10038.9	10057.5	10069.7	10106.8	10143.9	10193.3	10267.3	10322.9	10384.7	10452.5
27.5°	9582.0	9588.2	9619.1	9619.1	9649.9	9711.7	9742.5	9804.3	9878.4	9940.1	10020.4
30°	9069.6	9081.9	9081.9	9106.6	9125.1	9156.0	9186.9	9248.6	9285.7	9341.2	9452.4
32.5°	8600.4	8612.6	8606.5	8600.4	8581.8	8575.6	8569.4	8581.8	8594.2	8612.6	8655.9
35°	8322.6	8291.6	8267.0	8223.8	8174.4	8112.6	8057.0	7983.0	7915.0	7859.4	7797.8
37.5°	8057.0	8050.8	8013.8	7952.0	7853.2	7742.2	7612.6	7452.0	7291.4	7118.6	6952.0
40°	7686.6	7668.0	7637.2	7550.8	7439.6	7303.8	7131.0	6933.4	6674.0	6408.6	6137.0
42.5°	7056.8	7063.0	7026.0	6958.0	6853.2	6723.4	6544.4	6328.4	6050.5	5735.6	5383.7
45°	6322.2	6322.2	6309.8	6254.2	6180.2	6075.2	5939.4	5760.3	5488.7	5167.6	4790.9
47.5°	5556.6	5562.7	5544.2	5531.9	5501.0	5433.1	5334.3	5198.5	5007.1	4698.3	4321.7
50°	4778.7	4778.7	4809.5	4803.3	4803.3	4778.7	4735.5	4655.1	4488.5	4241.5	3889.7
52.5°	4000.7	4013.1	4031.7	4056.3	4087.1	4136.5	4087.1	4050.1	3945.1	3753.7	3451.3
55°	3198.1	3210.5	3241.3	3284.5	3321.7	3371.1	3383.3	3383.3	3327.7	3198.1	2969.7
57.5°	2512.9	2494.3	2519.0	2556.1	2605.5	2654.9	2691.9	2735.1	2728.9	2642.5	2457.3
60°	1889.2	1895.4	1913.9	1951.0	1988.0	2031.2	2080.6	2117.7	2136.2	2093.0	1975.7
62.5°	1376.8	1376.8	1401.5	1438.5	1457.0	1518.8	1549.6	1568.2	1586.7	1580.5	1506.4
65°	963.2	975.4	987.8	1006.4	1024.8	1061.9	1080.4	1117.4	1129.8	1136.0	1080.4
67.5°	679.2	660.6	673.0	685.2	703.8	728.6	765.6	765.6	784.0	784.0	747.0
70°	432.2	432.2	438.4	456.8	469.2	475.4	487.8	500.0	518.6	512.4	512.4
72.5°	290.2	284.0	290.2	296.4	302.6	321.0	321.0	327.2	339.6	345.8	321.0
75°	148.2	154.4	166.6	160.6	179.0	166.6	172.8	191.4	185.2	172.8	172.8
77.5°	123.4	123.4	123.4	117.4	129.6	129.6	123.4	135.8	129.6	129.6	123.4
80°	86.4	92.6	86.4	80.2	86.4	80.2	80.2	80.2	80.2	80.2	74.0
82.5°	68.0	55.6	61.8	55.6	61.8	61.8	55.6	49.4	49.4	55.6	49.4
85°	49.4	37.0	43.2	43.2	37.0	37.0	37.0	37.0	37.0	30.8	30.8
87.5°	30.8	18.6	18.6	18.6	24.6	24.6	24.6	18.6	24.6	24.6	12.4
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	11502.1	11502.1	11502.1	11502.1	11502.1	11502.1	11502.1	11502.1	11502.1	11502.1	11502.1
2.5°	11520.7	11514.5	11526.9	11520.7	11520.7	11514.5	11520.7	11514.5	11526.9	11502.1	11508.3
5°	11520.7	11508.3	11514.5	11520.7	11526.9	11514.5	11514.5	11514.5	11526.9	11514.5	11520.7
7.5°	11495.9	11489.7	11508.3	11520.7	11514.5	11508.3	11520.7	11514.5	11526.9	11520.7	11532.9
10°	11446.5	11452.7	11465.1	11483.5	11489.7	11495.9	11508.3	11508.3	11526.9	11502.1	11514.5
12.5°	11372.5	11397.1	11428.1	11440.3	11465.1	11465.1	11477.5	11483.5	11495.9	11489.7	11508.3
15°	11279.9	11310.7	11347.7	11378.7	11409.5	11428.1	11446.5	11452.7	11471.3	11452.7	11458.9
17.5°	11168.7	11205.7	11261.3	11298.3	11347.7	11366.3	11390.9	11403.3	11421.9	11409.5	11415.7
20°	11014.3	11057.7	11119.3	11174.9	11205.7	11248.9	11279.9	11298.3	11310.7	11298.3	11304.5
22.5°	10798.3	10860.1	10940.3	10983.5	11045.3	11082.3	11088.5	11131.7	11162.5	11131.7	11144.1
25°	10545.1	10606.9	10668.7	10761.3	10816.9	10860.1	10903.3	10909.5	10940.3	10934.1	10927.9
27.5°	10125.3	10205.6	10310.5	10384.7	10458.7	10526.7	10576.1	10588.3	10619.3	10606.9	10613.1
30°	9551.1	9637.6	9736.4	9853.7	9958.7	10026.5	10088.3	10131.5	10162.3	10143.9	10137.7
32.5°	8736.2	8822.6	8927.6	9044.9	9168.4	9267.1	9341.2	9396.8	9433.8	9421.5	9390.6
35°	7804.0	7828.6	7896.6	7989.2	8094.0	8199.0	8267.0	8328.6	8371.8	8384.2	8384.2
37.5°	6847.0	6766.8	6717.4	6717.4	6779.0	6822.2	6884.0	6921.0	6989.0	7013.6	7032.2
40°	5920.8	5735.6	5562.7	5433.1	5346.7	5340.5	5340.5	5359.0	5420.7	5501.0	5575.1
42.5°	5093.5	4797.1	4531.7	4290.9	4118.1	4019.3	3976.1	3982.3	4031.7	4105.7	4229.1
45°	4432.9	4062.5	3729.1	3438.9	3204.3	3049.9	2975.9	2969.7	3006.7	3093.1	3229.1
47.5°	3920.5	3525.3	3148.7	2815.3	2562.2	2395.5	2309.1	2284.4	2309.1	2389.3	2549.9
50°	3494.5	3087.1	2698.1	2352.3	2080.6	1907.8	1827.5	1796.6	1827.5	1895.4	2055.9
52.5°	3099.3	2679.5	2315.3	1981.9	1691.7	1543.5	1457.0	1438.5	1457.0	1537.3	1667.0
55°	2642.5	2284.4	1926.3	1592.9	1339.8	1191.6	1123.6	1105.2	1123.6	1197.8	1333.6
57.5°	2191.8	1883.1	1568.2	1265.6	1049.6	919.9	858.2	833.4	876.6	926.0	1086.6
60°	1771.9	1525.0	1259.4	994.0	815.0	697.6	648.2	642.0	654.4	716.2	827.2
62.5°	1389.2	1185.4	975.4	759.4	611.2	561.8	500.0	494.0	506.2	543.2	629.8
65°	1000.2	870.6	710.0	555.6	438.4	370.4	345.8	352.0	364.2	389.0	469.2
67.5°	697.6	605.0	494.0	389.0	302.6	271.6	247.0	240.8	247.0	290.2	333.4
70°	469.2	413.6	333.4	296.4	210.0	166.6	172.8	154.4	179.0	179.0	216.0
72.5°	308.6	271.6	222.2	172.8	148.2	117.4	117.4	111.2	123.4	129.6	160.6
75°	160.6	123.4	123.4	86.4	61.8	30.8	55.6	49.4	43.2	49.4	61.8
77.5°	111.2	92.6	86.4	68.0	61.8	49.4	49.4	49.4	49.4	55.6	61.8
80°	68.0	68.0	49.4	43.2	37.0	30.8	37.0	37.0	37.0	37.0	43.2
82.5°	43.2	37.0	37.0	30.8	30.8	24.6	24.6	24.6	24.6	24.6	37.0
85°	37.0	24.6	24.6	18.6	24.6	43.2	18.6	24.6	24.6	24.6	18.6
87.5°	12.4	18.6	18.6	18.6	12.4	6.2	12.4	18.6	18.6	30.8	24.6
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°	11502.1	11502.1	11502.1	11502.1	11502.1	11502.1	11502.1	11502.1	11502.1	11502.1	11502.1
2.5°	11520.7	11526.9	11526.9	11520.7	11520.7	11508.3	11532.9	11514.5	11520.7	11545.3	11526.9
5°	11532.9	11539.1	11539.1	11532.9	11532.9	11532.9	11539.1	11539.1	11532.9	11526.9	11539.1
7.5°	11557.7	11551.5	11551.5	11539.1	11539.1	11526.9	11539.1	11520.7	11532.9	11520.7	11539.1
10°	11526.9	11532.9	11526.9	11520.7	11520.7	11514.5	11514.5	11495.9	11502.1	11483.5	11495.9
12.5°	11508.3	11502.1	11502.1	11489.7	11477.5	11465.1	11458.9	11440.3	11440.3	11397.1	11415.7
15°	11458.9	11465.1	11446.5	11421.9	11409.5	11378.7	11366.3	11341.5	11316.9	11286.1	11292.3
17.5°	11415.7	11397.1	11372.5	11347.7	11298.3	11273.7	11248.9	11211.9	11199.5	11162.5	11150.3
20°	11286.1	11273.7	11242.9	11199.5	11168.7	11113.1	11088.5	11051.5	11020.5	10983.5	10964.9
22.5°	11119.3	11106.9	11069.9	11026.7	10977.3	10952.7	10927.9	10860.1	10829.1	10792.1	10785.9
25°	10909.5	10890.9	10853.9	10804.5	10779.7	10711.9	10687.1	10637.7	10625.5	10588.3	10582.3
27.5°	10588.3	10563.7	10520.5	10458.7	10415.5	10372.3	10347.6	10310.5	10298.3	10261.1	10255.0
30°	10106.8	10075.9	9989.5	9964.8	9890.7	9847.5	9847.5	9798.1	9804.3	9779.6	9779.6
32.5°	9347.4	9298.0	9230.1	9180.7	9131.3	9106.6	9106.6	9088.1	9100.4	9100.4	9112.8
35°	8341.0	8273.2	8236.0	8205.2	8205.2	8229.8	8304.0	8322.6	8359.6	8390.4	8415.2
37.5°	7050.6	7044.6	7087.8	7124.8	7217.4	7322.4	7452.0	7563.2	7668.0	7742.2	7816.2
40°	5655.4	5809.7	5933.2	6106.1	6248.0	6451.8	6686.4	6877.8	7056.8	7186.6	7322.4
42.5°	4414.3	4611.9	4871.3	5124.4	5377.5	5655.4	5964.1	6229.6	6464.2	6643.2	6785.2
45°	3438.9	3710.5	4025.5	4346.5	4673.7	5019.5	5340.5	5612.1	5859.1	6044.4	6186.4
47.5°	2772.1	3068.5	3426.5	3778.5	4148.9	4513.1	4871.3	5105.9	5309.6	5457.8	5587.5
50°	2290.5	2605.5	2982.1	3383.3	3753.7	4118.1	4426.7	4655.1	4821.9	4951.5	5031.7
52.5°	1913.9	2247.3	2648.7	3049.9	3420.3	3753.7	4031.7	4204.5	4340.3	4432.9	4506.9
55°	1580.5	1901.6	2278.2	2654.9	3019.1	3333.9	3562.3	3692.1	3796.9	3852.5	3895.7
57.5°	1290.4	1586.7	1932.5	2278.2	2593.1	2852.4	3031.5	3161.1	3210.5	3253.7	3247.5
60°	1012.6	1290.4	1605.2	1901.6	2173.3	2383.1	2512.9	2586.9	2623.9	2642.5	2630.1
62.5°	796.4	1049.6	1290.4	1549.6	1747.2	1926.3	2049.8	2049.8	2068.3	2074.5	2093.0
65°	592.6	784.0	994.0	1185.4	1345.9	1463.2	1531.2	1549.6	1574.4	1568.2	1555.8
67.5°	438.4	580.4	734.6	876.6	987.8	1061.9	1111.3	1154.6	1148.4	1136.0	1129.8
70°	302.6	395.2	531.0	617.4	697.6	771.8	784.0	790.2	796.4	802.6	790.2
72.5°	210.0	277.8	352.0	426.0	475.4	506.2	537.2	543.2	543.2	543.2	537.2
75°	105.0	142.0	210.0	240.8	284.0	296.4	321.0	321.0	339.6	314.8	308.6
77.5°	92.6	111.2	148.2	172.8	191.4	210.0	216.0	234.6	228.4	216.0	222.2
80°	55.6	68.0	92.6	105.0	129.6	135.8	142.0	148.2	142.0	148.2	148.2
82.5°	43.2	49.4	61.8	61.8	80.2	80.2	86.4	86.4	92.6	92.6	92.6
85°	24.6	43.2	37.0	74.0	49.4	49.4	61.8	74.0	61.8	61.8	74.0
87.5°	24.6	24.6	18.6	24.6	24.6	24.6	30.8	37.0	37.0	43.2	37.0
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: P249216

CATALOG NUMBER: LD8B200D010 ER8B200835 8LBDW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	11502.1	11502.1	11502.1	11502.1
2.5°	11520.7	11532.9	11514.5	11508.3
5°	11539.1	11539.1	11526.9	11526.9
7.5°	11539.1	11539.1	11520.7	11508.3
10°	11489.7	11489.7	11471.3	11458.9
12.5°	11397.1	11397.1	11390.9	11372.5
15°	11279.9	11279.9	11255.1	11236.7
17.5°	11119.3	11131.7	11100.9	11100.9
20°	10946.5	10940.3	10915.7	10903.3
22.5°	10767.5	10755.1	10748.9	10711.9
25°	10576.1	10563.7	10545.1	10526.7
27.5°	10248.9	10242.7	10224.1	10199.5
30°	9748.7	9742.5	9717.9	9717.9
32.5°	9100.4	9094.2	9069.6	9075.8
35°	8427.4	8452.2	8439.8	8415.2
37.5°	7865.6	7884.2	7896.6	7884.2
40°	7396.4	7452.0	7458.2	7470.6
42.5°	6896.4	6970.4	6995.2	7007.4
45°	6297.4	6365.4	6421.0	6408.6
47.5°	5686.2	5735.6	5785.0	5748.0
50°	5099.7	5130.5	5149.1	5149.1
52.5°	4544.1	4544.1	4537.9	4544.1
55°	3908.1	3908.1	3883.5	3895.7
57.5°	3241.3	3253.7	3235.1	3204.3
60°	2623.9	2593.1	2580.7	2562.2
62.5°	2043.6	2043.6	2000.4	2055.9
65°	1531.2	1512.6	1494.1	1487.9
67.5°	1111.3	1105.2	1086.6	1080.4
70°	784.0	759.4	753.2	740.8
72.5°	524.8	524.8	512.4	512.4
75°	321.0	290.2	284.0	290.2
77.5°	222.2	216.0	216.0	210.0
80°	148.2	142.0	154.4	135.8
82.5°	92.6	98.8	92.6	98.8
85°	61.8	74.0	68.0	68.0
87.5°	37.0	37.0	37.0	37.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)