

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: P249225

Luminaire Tested: **LD8B200D010 ER8B200840 8LBDW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249225
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 ER8B200840 8LBDW0WMH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 4000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21657.0 lumens
Efficiency: N/A
Efficacy: 97.0 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

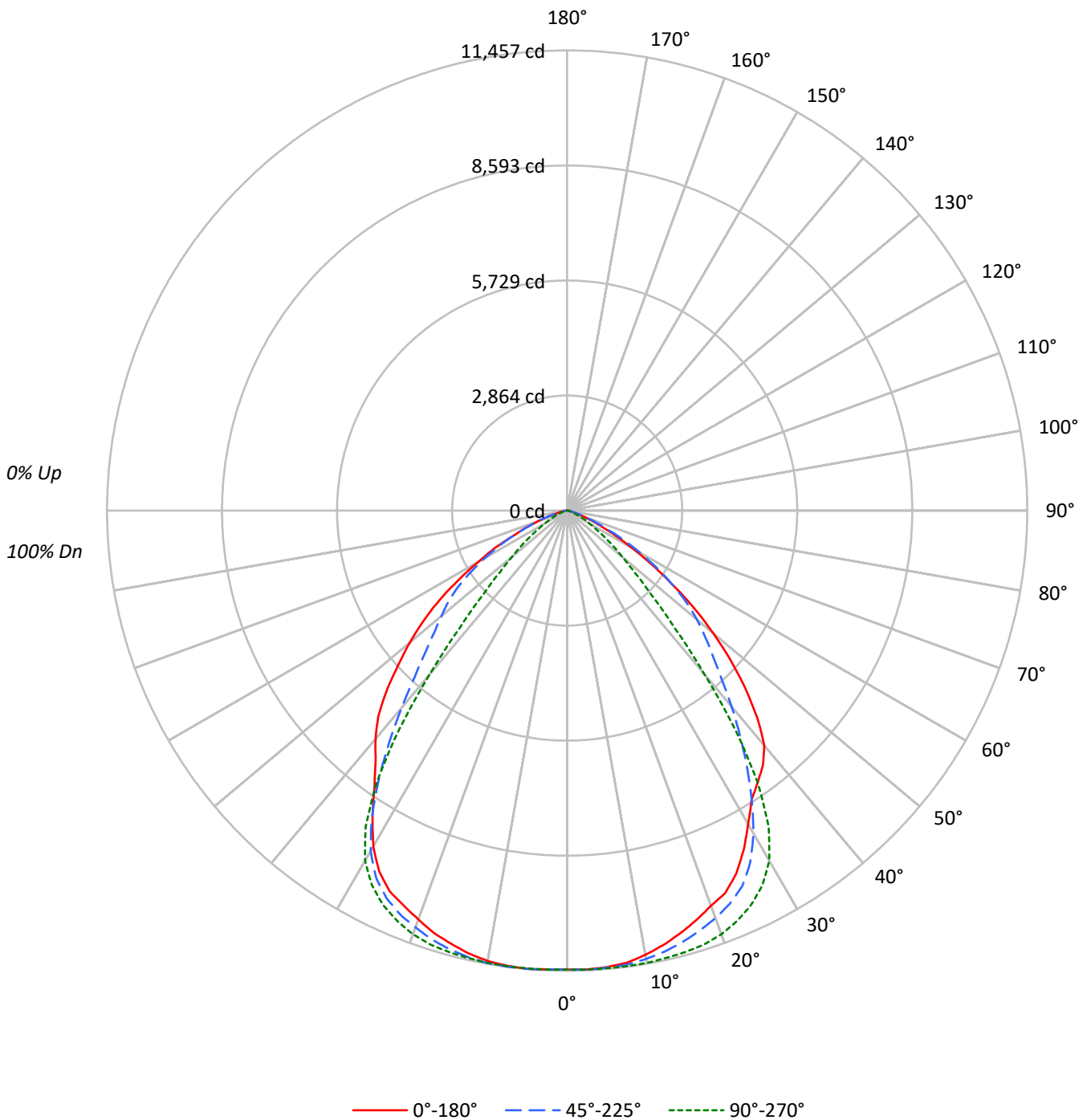
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	352357	352357	352357
5°	353131	354084	354465
10°	351646	357984	356447
15°	347749	363220	356369
20°	343573	368326	355449
25°	339115	368750	355811
30°	320820	358382	343751
35°	311242	311468	314705
40°	307387	214304	298749
45°	273896	128656	277638
50°	227746	85627	245395
55°	170806	59030	208068
60°	115753	39335	156982
65°	69820	25516	107849
70°	38714	13830	66357
75°	17538	5850	34349
80°	15236	6535	23955
85°	17372	8668	23882



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1090.5	5.0
10°-20°	3167.0	14.6
20°-30°	4806.9	22.2
30°-40°	5048.7	23.3
40°-50°	3785.2	17.5
50°-60°	2428.7	11.2
60°-70°	1038.9	4.8
70°-80°	245.5	1.1
80°-90°	45.7	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°	9064.4	41.9
0°-40°	14113.1	65.2
0°-60°	20327.0	93.9
0°-90°	21657.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21657.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11427	11427	11427	11427	11427	
5°	11408	11427	11439	11457	11451	###
15°	10893	11120	11378	11304	11163	3072
25°	9967	10316	10838	10642	10458	4553
35°	8268	7808	8274	8176	8360	5189
45°	6281	5134	2950	4987	6366	4810
55°	3177	3177	1098	3312	3870	2882
65°	957	1129	350	1454	1478	1021
75°	147	172	49	294	288	214
85°	49	31	24	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°	11426.7	11426.7	11426.7	11426.7	11426.7	11426.7	11426.7	11426.7	11426.7	11426.7	11426.7
2.5°	11432.8	11445.1	11439.0	11439.0	11432.8	11439.0	11439.0	11451.3	11451.3	11439.0	11432.8
5°	11408.2	11420.5	11420.5	11408.2	11408.2	11439.0	11420.5	11432.8	11432.8	11426.7	11426.7
7.5°	11353.1	11353.1	11377.6	11359.3	11359.3	11377.6	11371.4	11383.7	11396.0	11402.2	11402.2
10°	11230.4	11242.7	11248.8	11248.8	11255.0	11273.3	11285.6	11310.2	11322.4	11334.7	11340.8
12.5°	11077.1	11095.4	11101.6	11095.4	11113.9	11138.4	11169.1	11199.7	11218.2	11242.7	11261.1
15°	10893.0	10893.0	10905.3	10923.8	10936.1	10972.8	11003.4	11040.2	11089.3	11120.1	11150.7
17.5°	10690.7	10703.0	10721.3	10721.3	10745.9	10807.1	10825.6	10880.8	10936.1	10966.7	11028.1
20°	10469.9	10482.1	10500.5	10512.8	10543.5	10592.5	10629.3	10678.4	10739.8	10795.0	10856.2
22.5°	10298.1	10273.6	10285.8	10298.1	10328.8	10371.8	10414.7	10475.9	10537.3	10592.5	10653.9
25°	9966.9	9973.0	9991.5	10003.6	10040.6	10077.3	10126.4	10199.9	10255.2	10316.5	10383.9
27.5°	9519.2	9525.3	9556.0	9556.0	9586.6	9648.0	9678.6	9740.0	9813.6	9874.9	9954.7
30°	9010.1	9022.3	9022.3	9046.9	9065.2	9096.0	9126.6	9188.0	9224.7	9280.0	9390.4
32.5°	8544.0	8556.2	8550.0	8544.0	8525.5	8519.4	8513.2	8525.5	8537.8	8556.2	8599.1
35°	8268.0	8237.2	8212.8	8169.9	8120.8	8059.4	8004.2	7930.6	7863.1	7807.9	7746.6
37.5°	8004.2	7998.0	7961.2	7899.9	7801.7	7691.4	7562.6	7403.1	7243.6	7071.9	6906.4
40°	7636.2	7617.7	7587.1	7501.3	7390.8	7255.9	7084.2	6887.9	6630.2	6366.5	6096.7
42.5°	7010.5	7016.7	6979.9	6912.4	6808.2	6679.3	6501.5	6286.8	6010.9	5697.9	5348.4
45°	6280.7	6280.7	6268.4	6213.2	6139.6	6035.3	5900.4	5722.6	5452.7	5133.7	4759.5
47.5°	5520.1	5526.3	5507.8	5495.6	5464.9	5397.5	5299.3	5164.4	4974.3	4667.5	4293.4
50°	4747.4	4747.4	4778.0	4771.8	4771.8	4747.4	4704.4	4624.6	4459.1	4213.7	3864.2
52.5°	3974.5	3986.8	4005.2	4029.7	4060.3	4109.4	4060.3	4023.5	3919.2	3729.1	3428.6
55°	3177.1	3189.4	3220.0	3263.0	3299.9	3348.9	3361.1	3361.1	3305.9	3177.1	2950.2
57.5°	2496.4	2477.9	2502.5	2539.3	2588.4	2637.4	2674.2	2717.1	2711.0	2625.1	2441.1
60°	1876.9	1883.0	1901.3	1938.2	1975.0	2017.9	2067.0	2103.8	2122.2	2079.3	1962.7
62.5°	1367.8	1367.8	1392.3	1429.0	1447.5	1508.9	1539.5	1557.9	1576.3	1570.1	1496.6
65°	956.9	969.0	981.3	999.8	1018.1	1054.9	1073.3	1110.1	1122.4	1128.6	1073.3
67.5°	674.7	656.3	668.6	680.7	699.2	723.8	760.6	760.6	778.9	778.9	742.1
70°	429.4	429.4	435.5	453.8	466.1	472.3	484.6	496.8	515.2	509.1	509.1
72.5°	288.3	282.1	288.3	294.4	300.6	318.9	318.9	325.1	337.4	343.5	318.9
75°	147.2	153.4	165.5	159.5	177.8	165.5	171.7	190.1	184.0	171.7	171.7
77.5°	122.6	122.6	122.6	116.6	128.8	128.8	122.6	134.9	128.8	128.8	122.6
80°	85.8	92.0	85.8	79.7	85.8	79.7	79.7	79.7	79.7	79.7	73.5
82.5°	67.5	55.2	61.4	55.2	61.4	61.4	55.2	49.1	49.1	55.2	49.1
85°	49.1	36.8	42.9	42.9	36.8	36.8	36.8	36.8	36.8	30.6	30.6
87.5°	30.6	18.5	18.5	18.5	24.5	24.5	24.5	18.5	24.5	24.5	12.3
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°	11426.7	11426.7	11426.7	11426.7	11426.7	11426.7	11426.7	11426.7	11426.7	11426.7	11426.7
2.5°	11445.1	11439.0	11451.3	11445.1	11445.1	11439.0	11445.1	11439.0	11451.3	11426.7	11432.8
5°	11445.1	11432.8	11439.0	11445.1	11451.3	11439.0	11439.0	11439.0	11451.3	11439.0	11445.1
7.5°	11420.5	11414.4	11432.8	11445.1	11439.0	11432.8	11445.1	11439.0	11451.3	11445.1	11457.3
10°	11371.4	11377.6	11389.9	11408.2	11414.4	11420.5	11432.8	11432.8	11451.3	11426.7	11439.0
12.5°	11297.9	11322.4	11353.1	11365.3	11389.9	11389.9	11402.2	11408.2	11420.5	11414.4	11432.8
15°	11205.9	11236.5	11273.3	11304.0	11334.7	11353.1	11371.4	11377.6	11396.0	11377.6	11383.7
17.5°	11095.4	11132.2	11187.4	11224.2	11273.3	11291.7	11316.2	11328.5	11347.0	11334.7	11340.8
20°	10942.1	10985.1	11046.4	11101.6	11132.2	11175.1	11205.9	11224.2	11236.5	11224.2	11230.4
22.5°	10727.5	10788.8	10868.5	10911.4	10972.8	11009.6	11015.7	11058.7	11089.3	11058.7	11071.0
25°	10475.9	10537.3	10598.7	10690.7	10745.9	10788.8	10831.8	10837.9	10868.5	10862.4	10856.2
27.5°	10058.9	10138.7	10242.9	10316.5	10390.1	10457.6	10506.7	10518.9	10549.6	10537.3	10543.5
30°	9488.4	9574.4	9672.6	9789.0	9893.3	9960.7	10022.1	10065.0	10095.6	10077.3	10071.2
32.5°	8678.9	8764.8	8869.1	8985.5	9108.3	9206.3	9280.0	9335.2	9372.0	9359.7	9329.0
35°	7752.8	7777.3	7844.8	7936.8	8040.9	8145.2	8212.8	8274.0	8316.9	8329.2	8329.2
37.5°	6802.1	6722.4	6673.3	6673.3	6734.5	6777.4	6838.8	6875.6	6943.1	6967.6	6986.1
40°	5881.9	5697.9	5526.3	5397.5	5311.6	5305.5	5305.5	5323.8	5385.2	5464.9	5538.6
42.5°	5060.1	4765.7	4502.0	4262.8	4091.1	3992.9	3950.0	3956.2	4005.2	4078.8	4201.4
45°	4403.8	4035.9	3704.6	3416.3	3183.3	3029.9	2956.4	2950.2	2987.0	3072.8	3207.9
47.5°	3894.8	3502.2	3128.0	2796.8	2545.4	2379.8	2293.9	2269.5	2293.9	2373.6	2533.1
50°	3471.6	3066.8	2680.4	2336.8	2067.0	1895.3	1815.5	1784.9	1815.5	1883.0	2042.4
52.5°	3079.0	2661.9	2300.1	1968.9	1680.6	1533.3	1447.5	1429.0	1447.5	1527.2	1656.1
55°	2625.1	2269.5	1913.6	1582.4	1331.0	1183.8	1116.3	1098.0	1116.3	1190.0	1324.9
57.5°	2177.5	1870.7	1557.9	1257.3	1042.7	913.8	852.6	828.0	870.9	920.0	1079.5
60°	1760.2	1515.0	1251.2	987.5	809.7	693.1	644.0	637.8	650.1	711.5	821.8
62.5°	1380.1	1177.6	969.0	754.4	607.2	558.1	496.8	490.7	502.9	539.7	625.7
65°	993.7	864.9	705.4	552.0	435.5	368.0	343.5	349.7	361.8	386.4	466.1
67.5°	693.1	601.1	490.7	386.4	300.6	269.8	245.4	239.2	245.4	288.3	331.2
70°	466.1	410.9	331.2	294.4	208.6	165.5	171.7	153.4	177.8	177.8	214.6
72.5°	306.6	269.8	220.8	171.7	147.2	116.6	116.6	110.5	122.6	128.8	159.5
75°	159.5	122.6	122.6	85.8	61.4	30.6	55.2	49.1	42.9	49.1	61.4
77.5°	110.5	92.0	85.8	67.5	61.4	49.1	49.1	49.1	49.1	55.2	61.4
80°	67.5	67.5	49.1	42.9	36.8	30.6	36.8	36.8	36.8	36.8	42.9
82.5°	42.9	36.8	36.8	30.6	30.6	24.5	24.5	24.5	24.5	24.5	36.8
85°	36.8	24.5	24.5	18.5	24.5	42.9	18.5	24.5	24.5	24.5	18.5
87.5°	12.3	18.5	18.5	18.5	12.3	6.2	12.3	18.5	18.5	30.6	24.5
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°	11426.7	11426.7	11426.7	11426.7	11426.7	11426.7	11426.7	11426.7	11426.7	11426.7	11426.7
2.5°	11445.1	11451.3	11451.3	11445.1	11445.1	11432.8	11457.3	11439.0	11445.1	11469.6	11451.3
5°	11457.3	11463.4	11463.4	11457.3	11457.3	11457.3	11463.4	11463.4	11457.3	11451.3	11463.4
7.5°	11481.9	11475.7	11475.7	11463.4	11463.4	11451.3	11463.4	11445.1	11457.3	11445.1	11463.4
10°	11451.3	11457.3	11451.3	11445.1	11445.1	11439.0	11439.0	11420.5	11426.7	11408.2	11420.5
12.5°	11432.8	11426.7	11426.7	11414.4	11402.2	11389.9	11383.7	11365.3	11365.3	11322.4	11340.8
15°	11383.7	11389.9	11371.4	11347.0	11334.7	11304.0	11291.7	11267.1	11242.7	11212.0	11218.2
17.5°	11340.8	11322.4	11297.9	11273.3	11224.2	11199.7	11175.1	11138.4	11126.1	11089.3	11077.1
20°	11212.0	11199.7	11169.1	11126.1	11095.4	11040.2	11015.7	10979.0	10948.2	10911.4	10893.0
22.5°	11046.4	11034.1	10997.3	10954.4	10905.3	10880.8	10856.2	10788.8	10758.1	10721.3	10715.1
25°	10837.9	10819.5	10782.7	10733.6	10709.0	10641.6	10617.0	10567.9	10555.8	10518.9	10512.8
27.5°	10518.9	10494.4	10451.5	10390.1	10347.2	10304.2	10279.8	10242.9	10230.7	10193.8	10187.8
30°	10040.6	10009.8	9923.9	9899.5	9825.8	9782.9	9782.9	9733.8	9740.0	9715.5	9715.5
32.5°	9286.1	9237.0	9169.5	9120.4	9071.4	9046.9	9046.9	9028.4	9040.7	9040.7	9053.1
35°	8286.3	8218.9	8182.0	8151.4	8151.4	8175.9	8249.5	8268.0	8304.8	8335.4	8360.0
37.5°	7004.4	6998.4	7041.3	7078.0	7170.0	7274.3	7403.1	7513.6	7617.7	7691.4	7764.9
40°	5618.3	5771.6	5894.2	6066.1	6207.0	6409.5	6642.5	6832.7	7010.5	7139.4	7274.3
42.5°	4385.4	4581.7	4839.4	5090.7	5342.3	5618.3	5925.0	6188.7	6421.8	6599.6	6740.7
45°	3416.3	3686.2	3999.1	4318.0	4643.1	4986.6	5305.5	5575.3	5820.7	6004.7	6145.8
47.5°	2753.9	3048.3	3404.0	3753.7	4121.7	4483.5	4839.4	5072.4	5274.7	5422.0	5550.9
50°	2275.5	2588.4	2962.5	3361.1	3729.1	4091.1	4397.7	4624.6	4790.3	4919.1	4998.7
52.5°	1901.3	2232.5	2631.3	3029.9	3397.9	3729.1	4005.2	4176.9	4311.8	4403.8	4477.4
55°	1570.1	1889.2	2263.3	2637.4	2999.3	3312.0	3539.0	3667.9	3772.0	3827.2	3870.2
57.5°	1281.9	1576.3	1919.8	2263.3	2576.1	2833.7	3011.6	3140.3	3189.4	3232.3	3226.2
60°	1006.0	1281.9	1594.7	1889.2	2159.0	2367.5	2496.4	2569.9	2606.7	2625.1	2612.8
62.5°	791.2	1042.7	1281.9	1539.5	1735.8	1913.6	2036.4	2036.4	2054.7	2060.8	2079.3
65°	588.8	778.9	987.5	1177.6	1337.0	1453.6	1521.2	1539.5	1564.1	1557.9	1545.6
67.5°	435.5	576.6	729.8	870.9	981.3	1054.9	1104.0	1147.0	1140.9	1128.6	1122.4
70°	300.6	392.6	527.5	613.4	693.1	766.7	778.9	785.1	791.2	797.4	785.1
72.5°	208.6	276.0	349.7	423.2	472.3	502.9	533.7	539.7	539.7	539.7	533.7
75°	104.3	141.1	208.6	239.2	282.1	294.4	318.9	318.9	337.4	312.8	306.6
77.5°	92.0	110.5	147.2	171.7	190.1	208.6	214.6	233.1	226.9	214.6	220.8
80°	55.2	67.5	92.0	104.3	128.8	134.9	141.1	147.2	141.1	147.2	147.2
82.5°	42.9	49.1	61.4	61.4	79.7	79.7	85.8	85.8	92.0	92.0	92.0
85°	24.5	42.9	36.8	73.5	49.1	49.1	61.4	73.5	61.4	61.4	73.5
87.5°	24.5	24.5	18.5	24.5	24.5	24.5	30.6	36.8	36.8	42.9	36.8
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: P249225

CATALOG NUMBER: LD8B200D010 ER8B200840 8LBDW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	11426.7	11426.7	11426.7	11426.7
2.5°	11445.1	11457.3	11439.0	11432.8
5°	11463.4	11463.4	11451.3	11451.3
7.5°	11463.4	11463.4	11445.1	11432.8
10°	11414.4	11414.4	11396.0	11383.7
12.5°	11322.4	11322.4	11316.2	11297.9
15°	11205.9	11205.9	11181.3	11163.0
17.5°	11046.4	11058.7	11028.1	11028.1
20°	10874.7	10868.5	10844.1	10831.8
22.5°	10696.8	10684.5	10678.4	10641.6
25°	10506.7	10494.4	10475.9	10457.6
27.5°	10181.6	10175.5	10157.0	10132.5
30°	9684.7	9678.6	9654.1	9654.1
32.5°	9040.7	9034.6	9010.1	9016.3
35°	8372.2	8396.8	8384.5	8360.0
37.5°	7814.0	7832.5	7844.8	7832.5
40°	7347.9	7403.1	7409.3	7421.6
42.5°	6851.1	6924.7	6949.3	6961.4
45°	6256.1	6323.6	6378.8	6366.5
47.5°	5648.9	5697.9	5747.0	5710.3
50°	5066.3	5096.9	5115.3	5115.3
52.5°	4514.3	4514.3	4508.1	4514.3
55°	3882.5	3882.5	3858.0	3870.2
57.5°	3220.0	3232.3	3213.9	3183.3
60°	2606.7	2576.1	2563.8	2545.4
62.5°	2030.2	2030.2	1987.3	2042.4
65°	1521.2	1502.7	1484.3	1478.1
67.5°	1104.0	1098.0	1079.5	1073.3
70°	778.9	754.4	748.3	736.0
72.5°	521.4	521.4	509.1	509.1
75°	318.9	288.3	282.1	288.3
77.5°	220.8	214.6	214.6	208.6
80°	147.2	141.1	153.4	134.9
82.5°	92.0	98.1	92.0	98.1
85°	61.4	73.5	67.5	67.5
87.5°	36.8	36.8	36.8	36.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)