

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: P249279

Luminaire Tested: **LD8B200D010 ER8B200950 8LBDW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249279
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 ER8B200950 8LBDW0WMH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 5000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20102.0 lumens
Efficiency: N/A
Efficacy: 90.0 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

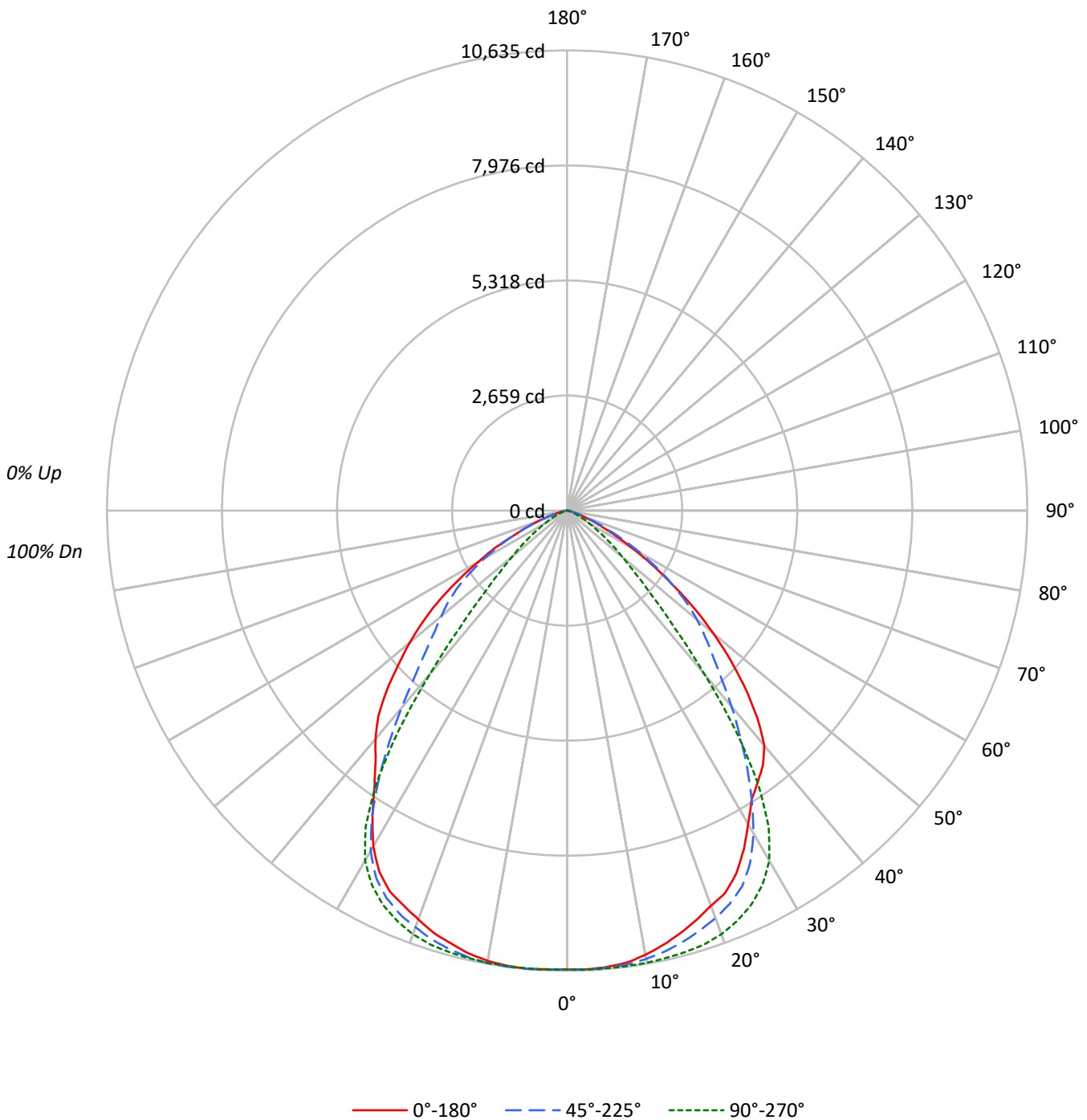
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	327056	327056	327056
5°	327776	328658	329014
10°	326396	332280	330855
15°	322781	337141	330782
20°	318906	341880	329925
25°	314764	342272	330262
30°	297786	332649	319068
35°	288893	289104	292108
40°	285316	198919	277297
45°	254228	119419	257704
50°	211392	79477	227780
55°	158543	54788	193127
60°	107440	36510	145714
65°	64807	23684	100108
70°	35929	12839	61588
75°	16287	5433	31882
80°	14153	6055	22233
85°	16134	8031	22184



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1012.2	5.0
10°-20°	2939.6	14.6
20°-30°	4461.8	22.2
30°-40°	4686.2	23.3
40°-50°	3513.4	17.5
50°-60°	2254.3	11.2
60°-70°	964.3	4.8
70°-80°	227.8	1.1
80°-90°	42.4	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°	8413.6	41.9
0°-40°	13099.8	65.2
0°-60°	18867.4	93.9
0°-90°	20102.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20102.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10606	10606	10606	10606	10606	
5°	10589	10606	10618	10635	10629	###
15°	10111	10322	10561	10492	10362	2852
25°	9251	9576	10060	9878	9707	4226
35°	7674	7247	7680	7589	7760	4817
45°	5830	4765	2738	4628	5909	4465
55°	2949	2949	1019	3074	3592	2675
65°	888	1048	325	1349	1372	948
75°	137	159	46	273	268	199
85°	46	28	23	46	63	48
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°	10606.2	10606.2	10606.2	10606.2	10606.2	10606.2	10606.2	10606.2	10606.2	10606.2	10606.2
2.5°	10611.9	10623.3	10617.6	10617.6	10611.9	10617.6	10617.6	10629.1	10629.1	10617.6	10611.9
5°	10589.1	10600.5	10600.5	10589.1	10589.1	10617.6	10600.5	10611.9	10611.9	10606.2	10606.2
7.5°	10538.0	10538.0	10560.7	10543.7	10543.7	10560.7	10554.9	10566.4	10577.8	10583.5	10583.5
10°	10424.0	10435.4	10441.1	10441.1	10446.8	10463.8	10475.3	10498.1	10509.4	10520.8	10526.5
12.5°	10281.8	10298.8	10304.5	10298.8	10315.9	10338.6	10367.2	10395.6	10412.7	10435.4	10452.6
15°	10110.9	10110.9	10122.3	10139.4	10150.8	10185.0	10213.4	10247.5	10293.1	10321.6	10350.0
17.5°	9923.1	9934.5	9951.5	9951.5	9974.3	10031.2	10048.3	10099.6	10150.8	10179.3	10236.2
20°	9718.2	9729.5	9746.6	9758.0	9786.4	9832.0	9866.1	9911.7	9968.6	10019.9	10076.7
22.5°	9558.7	9536.0	9547.2	9558.7	9587.2	9627.1	9666.9	9723.7	9780.7	9832.0	9888.9
25°	9251.2	9256.9	9274.1	9285.4	9319.6	9353.8	9399.3	9467.6	9518.8	9575.8	9638.4
27.5°	8835.7	8841.4	8869.8	8869.8	8898.2	8955.2	8983.6	9040.6	9109.0	9165.8	9239.9
30°	8363.2	8374.5	8374.5	8397.3	8414.3	8442.9	8471.3	8528.3	8562.4	8613.7	8716.2
32.5°	7930.5	7941.8	7936.1	7930.5	7913.4	7907.7	7902.0	7913.4	7924.8	7941.8	7981.7
35°	7674.3	7645.8	7623.1	7583.2	7537.7	7480.7	7429.5	7361.2	7298.5	7247.3	7190.4
37.5°	7429.5	7423.7	7389.6	7332.6	7241.5	7139.2	7019.6	6871.6	6723.5	6564.1	6410.5
40°	7087.9	7070.8	7042.3	6962.7	6860.1	6734.9	6575.5	6393.3	6154.2	5909.4	5658.9
42.5°	6507.2	6512.9	6478.7	6416.1	6319.4	6199.7	6034.6	5835.4	5579.3	5288.8	4964.4
45°	5829.7	5829.7	5818.3	5767.0	5698.8	5602.0	5476.7	5311.7	5061.2	4765.1	4417.8
47.5°	5123.8	5129.5	5112.3	5101.0	5072.5	5009.9	4918.8	4793.6	4617.1	4332.4	3985.1
50°	4406.5	4406.5	4434.9	4429.2	4429.2	4406.5	4366.7	4292.6	4138.9	3911.1	3586.7
52.5°	3689.1	3700.5	3717.7	3740.4	3768.8	3814.3	3768.8	3734.7	3637.8	3461.3	3182.5
55°	2949.0	2960.4	2988.8	3028.7	3062.9	3108.5	3119.8	3119.8	3068.5	2949.0	2738.4
57.5°	2317.1	2300.0	2322.8	2357.0	2402.5	2448.1	2482.2	2522.0	2516.3	2436.6	2265.9
60°	1742.1	1747.8	1764.8	1799.1	1833.2	1873.0	1918.6	1952.7	1969.8	1930.0	1821.8
62.5°	1269.6	1269.6	1292.3	1326.4	1343.6	1400.5	1428.9	1446.1	1463.1	1457.4	1389.1
65°	888.2	899.5	910.9	928.0	945.0	979.1	996.3	1030.4	1041.8	1047.5	996.3
67.5°	626.3	609.2	620.6	631.9	649.0	671.8	706.0	706.0	723.0	723.0	688.8
70°	398.5	398.5	404.2	421.2	432.7	438.4	449.8	461.1	478.2	472.5	472.5
72.5°	267.6	261.9	267.6	273.3	279.0	296.0	296.0	301.7	313.1	318.9	296.0
75°	136.7	142.4	153.7	148.1	165.1	153.7	159.4	176.5	170.8	159.4	159.4
77.5°	113.8	113.8	113.8	108.2	119.5	119.5	113.8	125.2	119.5	119.5	113.8
80°	79.7	85.4	79.7	74.0	79.7	74.0	74.0	74.0	74.0	74.0	68.3
82.5°	62.7	51.3	57.0	51.3	57.0	57.0	51.3	45.6	45.6	51.3	45.6
85°	45.6	34.1	39.8	39.8	34.1	34.1	34.1	34.1	34.1	28.4	28.4
87.5°	28.4	17.1	17.1	17.1	22.7	22.7	22.7	17.1	22.7	22.7	11.4
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°	10606.2	10606.2	10606.2	10606.2	10606.2	10606.2	10606.2	10606.2	10606.2	10606.2	10606.2
2.5°	10623.3	10617.6	10629.1	10623.3	10623.3	10617.6	10623.3	10617.6	10629.1	10606.2	10611.9
5°	10623.3	10611.9	10617.6	10623.3	10629.1	10617.6	10617.6	10617.6	10629.1	10617.6	10623.3
7.5°	10600.5	10594.8	10611.9	10623.3	10617.6	10611.9	10623.3	10617.6	10629.1	10623.3	10634.6
10°	10554.9	10560.7	10572.1	10589.1	10594.8	10600.5	10611.9	10611.9	10629.1	10606.2	10617.6
12.5°	10486.7	10509.4	10538.0	10549.2	10572.1	10572.1	10583.5	10589.1	10600.5	10594.8	10611.9
15°	10401.3	10429.7	10463.8	10492.4	10520.8	10538.0	10554.9	10560.7	10577.8	10560.7	10566.4
17.5°	10298.8	10332.9	10384.2	10418.3	10463.8	10481.0	10503.7	10515.1	10532.2	10520.8	10526.5
20°	10156.4	10196.4	10253.2	10304.5	10332.9	10372.7	10401.3	10418.3	10429.7	10418.3	10424.0
22.5°	9957.2	10014.2	10088.2	10128.0	10185.0	10219.1	10224.8	10264.6	10293.1	10264.6	10276.1
25°	9723.7	9780.7	9837.7	9923.1	9974.3	10014.2	10054.0	10059.7	10088.2	10082.4	10076.7
27.5°	9336.6	9410.7	9507.4	9575.8	9644.1	9706.7	9752.3	9763.6	9792.1	9780.7	9786.4
30°	8807.1	8887.0	8978.1	9086.2	9183.0	9245.5	9302.5	9342.3	9370.8	9353.8	9348.0
32.5°	8055.8	8135.4	8232.2	8340.3	8454.3	8545.3	8613.7	8664.9	8699.0	8687.6	8659.2
35°	7196.1	7218.8	7281.5	7366.9	7463.6	7560.4	7623.1	7679.9	7719.8	7731.2	7731.2
37.5°	6313.7	6239.7	6194.1	6194.1	6251.0	6290.8	6347.8	6381.9	6444.6	6467.3	6484.4
40°	5459.6	5288.8	5129.5	5009.9	4930.3	4924.6	4924.6	4941.6	4998.5	5072.5	5140.9
42.5°	4696.8	4423.5	4178.7	3956.7	3797.3	3706.2	3666.4	3672.1	3717.7	3785.9	3899.7
45°	4087.6	3746.1	3438.6	3171.0	2954.7	2812.3	2744.1	2738.4	2772.5	2852.2	2977.5
47.5°	3615.1	3250.7	2903.4	2596.0	2362.7	2208.9	2129.2	2106.5	2129.2	2203.2	2351.3
50°	3222.3	2846.6	2487.9	2169.1	1918.6	1759.2	1685.1	1656.7	1685.1	1747.8	1895.7
52.5°	2857.9	2470.8	2134.9	1827.5	1559.9	1423.2	1343.6	1326.4	1343.6	1417.5	1537.2
55°	2436.6	2106.5	1776.2	1468.8	1235.5	1098.8	1036.1	1019.1	1036.1	1104.5	1229.7
57.5°	2021.1	1736.4	1446.1	1167.1	967.9	848.2	791.4	768.5	808.4	853.9	1002.0
60°	1633.9	1406.2	1161.4	916.6	751.5	643.3	597.7	592.0	603.5	660.4	762.8
62.5°	1281.0	1093.1	899.5	700.3	563.6	518.1	461.1	455.5	466.8	500.9	580.7
65°	922.3	802.8	654.7	512.3	404.2	341.6	318.9	324.6	335.9	358.7	432.7
67.5°	643.3	557.9	455.5	358.7	279.0	250.5	227.8	222.0	227.8	267.6	307.4
70°	432.7	381.4	307.4	273.3	193.6	153.7	159.4	142.4	165.1	165.1	199.2
72.5°	284.6	250.5	204.9	159.4	136.7	108.2	108.2	102.5	113.8	119.5	148.1
75°	148.1	113.8	113.8	79.7	57.0	28.4	51.3	45.6	39.8	45.6	57.0
77.5°	102.5	85.4	79.7	62.7	57.0	45.6	45.6	45.6	45.6	51.3	57.0
80°	62.7	62.7	45.6	39.8	34.1	28.4	34.1	34.1	34.1	34.1	39.8
82.5°	39.8	34.1	34.1	28.4	28.4	22.7	22.7	22.7	22.7	22.7	34.1
85°	34.1	22.7	22.7	17.1	22.7	39.8	17.1	22.7	22.7	22.7	17.1
87.5°	11.4	17.1	17.1	17.1	11.4	5.7	11.4	17.1	17.1	28.4	22.7
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	10606.2	10606.2	10606.2	10606.2	10606.2	10606.2	10606.2	10606.2	10606.2	10606.2	10606.2
2.5°	10623.3	10629.1	10629.1	10623.3	10623.3	10611.9	10634.6	10617.6	10623.3	10646.1	10629.1
5°	10634.6	10640.3	10640.3	10634.6	10634.6	10634.6	10640.3	10640.3	10634.6	10629.1	10640.3
7.5°	10657.5	10651.8	10651.8	10640.3	10640.3	10629.1	10640.3	10623.3	10634.6	10623.3	10640.3
10°	10629.1	10634.6	10629.1	10623.3	10623.3	10617.6	10617.6	10600.5	10606.2	10589.1	10600.5
12.5°	10611.9	10606.2	10606.2	10594.8	10583.5	10572.1	10566.4	10549.2	10549.2	10509.4	10526.5
15°	10566.4	10572.1	10554.9	10532.2	10520.8	10492.4	10481.0	10458.1	10435.4	10407.0	10412.7
17.5°	10526.5	10509.4	10486.7	10463.8	10418.3	10395.6	10372.7	10338.6	10327.2	10293.1	10281.8
20°	10407.0	10395.6	10367.2	10327.2	10298.8	10247.5	10224.8	10190.7	10162.1	10128.0	10110.9
22.5°	10253.2	10241.8	10207.7	10167.8	10122.3	10099.6	10076.7	10014.2	9985.6	9951.5	9945.8
25°	10059.7	10042.6	10008.5	9962.9	9940.1	9877.5	9854.7	9809.1	9797.8	9763.6	9758.0
27.5°	9763.6	9740.9	9701.0	9644.1	9604.2	9564.4	9541.7	9507.4	9496.1	9461.9	9456.3
30°	9319.6	9291.1	9211.4	9188.7	9120.3	9080.5	9080.5	9034.9	9040.6	9017.9	9017.9
32.5°	8619.4	8573.8	8511.1	8465.6	8420.0	8397.3	8397.3	8380.2	8391.6	8391.6	8403.0
35°	7691.3	7628.8	7594.5	7566.1	7566.1	7588.8	7657.2	7674.3	7708.5	7736.9	7759.7
37.5°	6501.4	6495.9	6535.7	6569.8	6655.2	6752.0	6871.6	6974.1	7070.8	7139.2	7207.4
40°	5214.9	5357.2	5471.0	5630.5	5761.3	5949.3	6165.6	6342.1	6507.2	6626.8	6752.0
42.5°	4070.5	4252.7	4491.9	4725.2	4958.7	5214.9	5499.6	5744.3	5960.7	6125.7	6256.7
45°	3171.0	3421.5	3711.9	4008.0	4309.7	4628.5	4924.6	5175.0	5402.8	5573.6	5704.5
47.5°	2556.2	2829.5	3159.6	3484.2	3825.8	4161.6	4491.9	4708.2	4896.0	5032.7	5152.3
50°	2112.1	2402.5	2749.8	3119.8	3461.3	3797.3	4081.9	4292.6	4446.3	4565.9	4639.8
52.5°	1764.8	2072.2	2442.4	2812.3	3153.9	3461.3	3717.7	3877.0	4002.2	4087.6	4155.9
55°	1457.4	1753.5	2100.8	2448.1	2783.9	3074.2	3284.9	3404.5	3501.2	3552.4	3592.3
57.5°	1189.9	1463.1	1781.9	2100.8	2391.1	2630.3	2795.3	2914.9	2960.4	3000.3	2994.5
60°	933.7	1189.9	1480.2	1753.5	2004.0	2197.5	2317.1	2385.4	2419.5	2436.6	2425.2
62.5°	734.4	967.9	1189.9	1428.9	1611.2	1776.2	1890.2	1890.2	1907.2	1912.9	1930.0
65°	546.5	723.0	916.6	1093.1	1241.0	1349.3	1411.9	1428.9	1451.8	1446.1	1434.7
67.5°	404.2	535.2	677.4	808.4	910.9	979.1	1024.7	1064.7	1059.0	1047.5	1041.8
70°	279.0	364.4	489.6	569.3	643.3	711.7	723.0	728.7	734.4	740.1	728.7
72.5°	193.6	256.2	324.6	392.8	438.4	466.8	495.4	500.9	500.9	500.9	495.4
75°	96.8	130.9	193.6	222.0	261.9	273.3	296.0	296.0	313.1	290.3	284.6
77.5°	85.4	102.5	136.7	159.4	176.5	193.6	199.2	216.3	210.6	199.2	204.9
80°	51.3	62.7	85.4	96.8	119.5	125.2	130.9	136.7	130.9	136.7	136.7
82.5°	39.8	45.6	57.0	57.0	74.0	74.0	79.7	79.7	85.4	85.4	85.4
85°	22.7	39.8	34.1	68.3	45.6	45.6	57.0	68.3	57.0	57.0	68.3
87.5°	22.7	22.7	17.1	22.7	22.7	22.7	28.4	34.1	34.1	39.8	34.1
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: P249279

CATALOG NUMBER: LD8B200D010 ER8B200950 8LBDW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	10606.2	10606.2	10606.2	10606.2
2.5°	10623.3	10634.6	10617.6	10611.9
5°	10640.3	10640.3	10629.1	10629.1
7.5°	10640.3	10640.3	10623.3	10611.9
10°	10594.8	10594.8	10577.8	10566.4
12.5°	10509.4	10509.4	10503.7	10486.7
15°	10401.3	10401.3	10378.5	10361.5
17.5°	10253.2	10264.6	10236.2	10236.2
20°	10093.9	10088.2	10065.4	10054.0
22.5°	9928.8	9917.4	9911.7	9877.5
25°	9752.3	9740.9	9723.7	9706.7
27.5°	9450.6	9444.9	9427.7	9405.0
30°	8989.3	8983.6	8960.9	8960.9
32.5°	8391.6	8385.9	8363.2	8368.9
35°	7771.0	7793.9	7782.4	7759.7
37.5°	7253.0	7270.1	7281.5	7270.1
40°	6820.3	6871.6	6877.3	6888.7
42.5°	6359.2	6427.5	6450.3	6461.6
45°	5806.9	5869.6	5920.8	5909.4
47.5°	5243.3	5288.8	5334.4	5300.3
50°	4702.5	4730.9	4748.1	4748.1
52.5°	4190.2	4190.2	4184.4	4190.2
55°	3603.7	3603.7	3581.0	3592.3
57.5°	2988.8	3000.3	2983.1	2954.7
60°	2419.5	2391.1	2379.7	2362.7
62.5°	1884.5	1884.5	1844.6	1895.7
65°	1411.9	1394.8	1377.7	1372.0
67.5°	1024.7	1019.1	1002.0	996.3
70°	723.0	700.3	694.6	683.1
72.5°	483.9	483.9	472.5	472.5
75°	296.0	267.6	261.9	267.6
77.5°	204.9	199.2	199.2	193.6
80°	136.7	130.9	142.4	125.2
82.5°	85.4	91.1	85.4	91.1
85°	57.0	68.3	62.7	62.7
87.5°	34.1	34.1	34.1	34.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)