

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: P249171

Luminaire Tested: **LD8B200D010 ER8B200950 8LBDW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249171
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 8LBDW0H
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20207.0 lumens
Efficiency: N/A
Efficacy: 90.5 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

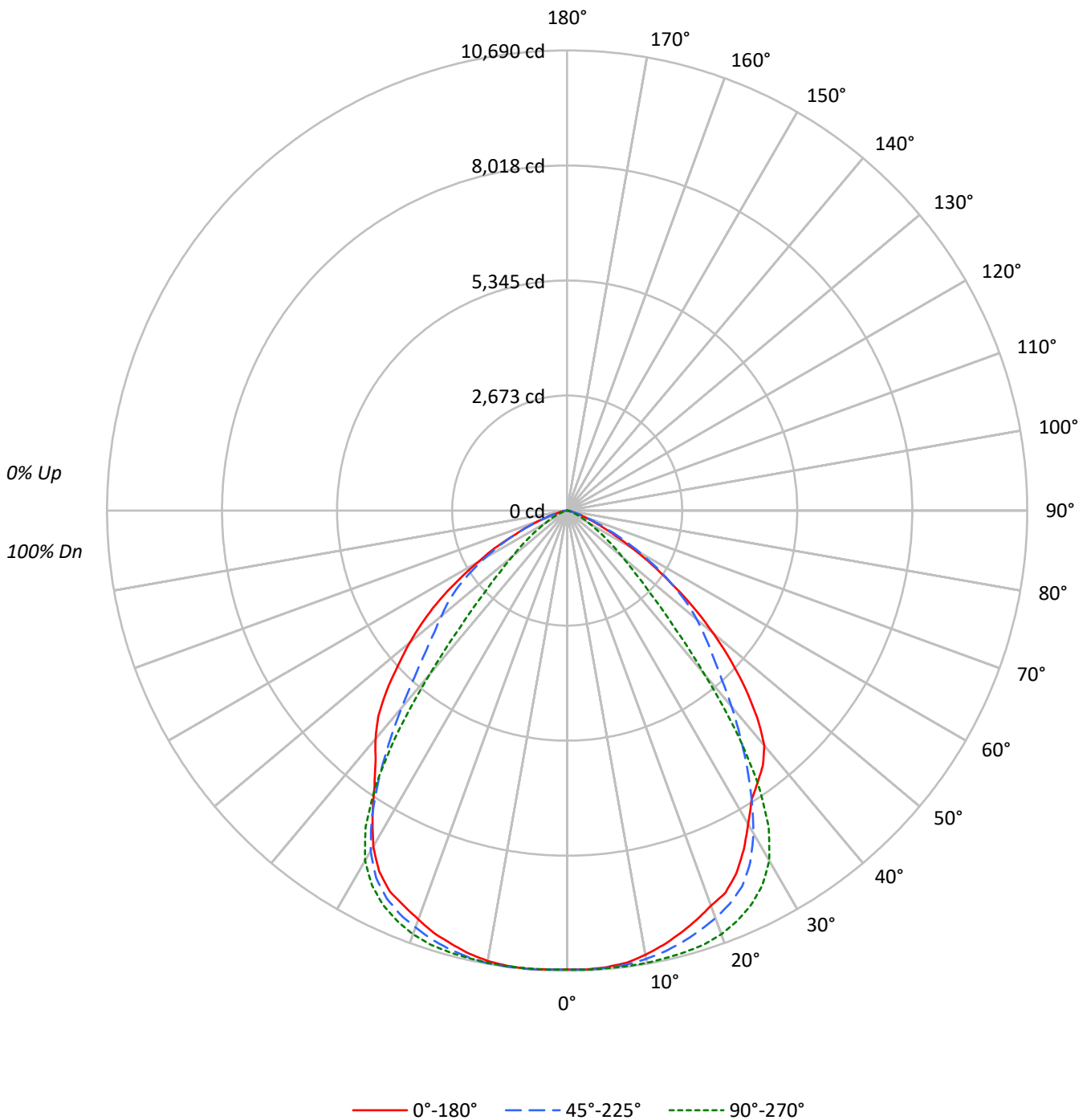
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	328764	328764	328764
5°	329488	330376	330732
10°	328103	334018	332584
15°	324467	338900	332509
20°	320570	343665	331648
25°	316411	344062	331987
30°	299342	334386	320735
35°	290402	290613	293636
40°	286805	199957	278747
45°	255558	120043	259051
50°	212495	79894	228969
55°	159371	55073	194138
60°	108001	36701	146472
65°	65143	23808	100626
70°	36118	12902	61912
75°	16370	5457	32049
80°	14224	6091	22357
85°	16204	8067	22290



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1017.5	5.0
10°-20°	2955.0	14.6
20°-30°	4485.1	22.2
30°-40°	4710.7	23.3
40°-50°	3531.7	17.5
50°-60°	2266.1	11.2
60°-70°	969.4	4.8
70°-80°	229.0	1.1
80°-90°	42.6	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°	8457.5	41.9
0°-40°	13168.2	65.2
0°-60°	18966.0	93.9
0°-90°	20207.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20207.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10662	10662	10662	10662	10662	
5°	10644	10662	10673	10690	10685	###
15°	10164	10376	10616	10547	10416	2867
25°	9300	9626	10112	9929	9757	4248
35°	7714	7285	7720	7628	7800	4842
45°	5860	4790	2753	4653	5940	4488
55°	2964	2964	1024	3090	3611	2689
65°	893	1053	326	1356	1379	953
75°	137	160	46	275	269	200
85°	46	29	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°	10661.6	10661.6	10661.6	10661.6	10661.6	10661.6	10661.6	10661.6	10661.6	10661.6	10661.6
2.5°	10667.4	10678.8	10673.1	10673.1	10667.4	10673.1	10673.1	10684.6	10684.6	10673.1	10667.4
5°	10644.4	10655.9	10655.9	10644.4	10644.4	10673.1	10655.9	10667.4	10667.4	10661.6	10661.6
7.5°	10593.0	10593.0	10615.8	10598.7	10598.7	10615.8	10610.1	10621.6	10633.0	10638.8	10638.8
10°	10478.5	10489.9	10495.7	10495.7	10501.4	10518.5	10530.0	10552.9	10564.3	10575.8	10581.5
12.5°	10335.5	10352.6	10358.3	10352.6	10369.8	10392.6	10421.3	10449.9	10467.1	10489.9	10507.2
15°	10163.7	10163.7	10175.2	10192.4	10203.9	10238.2	10266.7	10301.0	10346.8	10375.5	10404.1
17.5°	9974.9	9986.4	10003.5	10003.5	10026.4	10083.6	10100.8	10152.3	10203.9	10232.4	10289.7
20°	9768.9	9780.3	9797.5	9809.0	9837.5	9883.3	9917.6	9963.4	10020.7	10072.2	10129.4
22.5°	9608.6	9585.8	9597.1	9608.6	9637.3	9677.3	9717.4	9774.5	9831.8	9883.3	9940.6
25°	9299.6	9305.3	9322.5	9333.9	9368.3	9402.6	9448.4	9517.0	9568.6	9625.8	9688.7
27.5°	8881.9	8887.6	8916.2	8916.2	8944.7	9002.0	9030.6	9087.8	9156.6	9213.7	9288.2
30°	8406.9	8418.2	8418.2	8441.2	8458.3	8487.0	8515.5	8572.8	8607.1	8658.6	8761.7
32.5°	7971.9	7983.3	7977.6	7971.9	7954.7	7949.0	7943.2	7954.7	7966.2	7983.3	8023.3
35°	7714.4	7685.7	7662.9	7622.9	7577.1	7519.8	7468.3	7399.7	7336.6	7285.1	7228.0
37.5°	7468.3	7462.5	7428.2	7370.9	7279.4	7176.4	7056.3	6907.5	6758.6	6598.4	6444.0
40°	7124.9	7107.7	7079.1	6999.0	6896.0	6770.1	6609.9	6426.7	6186.3	5940.3	5688.5
42.5°	6541.1	6546.9	6512.6	6449.6	6352.4	6232.1	6066.2	5865.9	5608.4	5316.5	4990.3
45°	5860.2	5860.2	5848.7	5797.2	5728.6	5631.2	5505.4	5339.4	5087.6	4789.9	4440.9
47.5°	5150.5	5156.3	5139.0	5127.7	5099.0	5036.1	4944.5	4818.7	4641.2	4355.0	4005.9
50°	4429.5	4429.5	4458.1	4452.3	4452.3	4429.5	4389.5	4315.0	4160.5	3931.6	3605.4
52.5°	3708.4	3719.8	3737.1	3759.9	3788.5	3834.3	3788.5	3754.2	3656.8	3479.4	3199.1
55°	2964.4	2975.9	3004.4	3044.5	3078.9	3124.7	3136.1	3136.1	3084.5	2964.4	2752.7
57.5°	2329.2	2312.0	2335.0	2369.3	2415.1	2460.9	2495.2	2535.2	2529.5	2449.4	2277.7
60°	1751.2	1756.9	1774.0	1808.5	1842.8	1882.8	1928.6	1962.9	1980.1	1940.1	1831.3
62.5°	1276.2	1276.2	1299.0	1333.4	1350.6	1407.8	1436.4	1453.6	1470.7	1465.0	1396.4
65°	892.8	904.2	915.6	932.9	950.0	984.3	1001.5	1035.8	1047.3	1053.0	1001.5
67.5°	629.6	612.3	623.8	635.2	652.4	675.4	709.7	709.7	726.7	726.7	692.4
70°	400.6	400.6	406.4	423.4	434.9	440.7	452.1	463.5	480.7	475.0	475.0
72.5°	269.0	263.3	269.0	274.7	280.5	297.6	297.6	303.3	314.8	320.5	297.6
75°	137.4	143.1	154.5	148.8	165.9	154.5	160.2	177.4	171.7	160.2	160.2
77.5°	114.4	114.4	114.4	108.8	120.1	120.1	114.4	125.9	120.1	120.1	114.4
80°	80.1	85.8	80.1	74.4	80.1	74.4	74.4	74.4	74.4	74.4	68.6
82.5°	63.0	51.5	57.3	51.5	57.3	57.3	51.5	45.8	45.8	51.5	45.8
85°	45.8	34.3	40.0	40.0	34.3	34.3	34.3	34.3	34.3	28.6	28.6
87.5°	28.6	17.2	17.2	17.2	22.8	22.8	22.8	17.2	22.8	22.8	11.5
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	10661.6	10661.6	10661.6	10661.6	10661.6	10661.6	10661.6	10661.6	10661.6	10661.6	10661.6
2.5°	10678.8	10673.1	10684.6	10678.8	10678.8	10673.1	10678.8	10673.1	10684.6	10661.6	10667.4
5°	10678.8	10667.4	10673.1	10678.8	10684.6	10673.1	10673.1	10673.1	10684.6	10673.1	10678.8
7.5°	10655.9	10650.1	10667.4	10678.8	10673.1	10667.4	10678.8	10673.1	10684.6	10678.8	10690.2
10°	10610.1	10615.8	10627.3	10644.4	10650.1	10655.9	10667.4	10667.4	10684.6	10661.6	10673.1
12.5°	10541.5	10564.3	10593.0	10604.3	10627.3	10627.3	10638.8	10644.4	10655.9	10650.1	10667.4
15°	10455.6	10484.2	10518.5	10547.2	10575.8	10593.0	10610.1	10615.8	10633.0	10615.8	10621.6
17.5°	10352.6	10386.9	10438.4	10472.7	10518.5	10535.7	10558.6	10570.0	10587.3	10575.8	10581.5
20°	10209.5	10249.6	10306.8	10358.3	10386.9	10426.9	10455.6	10472.7	10484.2	10472.7	10478.5
22.5°	10009.2	10066.5	10140.8	10180.9	10238.2	10272.5	10278.2	10318.3	10346.8	10318.3	10329.7
25°	9774.5	9831.8	9889.1	9974.9	10026.4	10066.5	10106.5	10112.3	10140.8	10135.1	10129.4
27.5°	9385.4	9459.9	9557.1	9625.8	9694.4	9757.4	9803.2	9814.6	9843.3	9831.8	9837.5
30°	8853.1	8933.4	9025.0	9133.6	9230.9	9293.8	9351.1	9391.1	9419.7	9402.6	9396.9
32.5°	8097.8	8177.9	8275.2	8383.9	8498.5	8589.9	8658.6	8710.2	8744.5	8733.0	8704.4
35°	7233.7	7256.5	7319.6	7405.4	7502.6	7599.9	7662.9	7720.0	7760.1	7771.6	7771.6
37.5°	6346.6	6272.3	6226.5	6226.5	6283.6	6323.7	6380.9	6415.3	6478.3	6501.1	6518.3
40°	5488.1	5316.5	5156.3	5036.1	4956.0	4950.3	4950.3	4967.4	5024.6	5099.0	5167.7
42.5°	4721.3	4446.6	4200.6	3977.4	3817.2	3725.6	3685.5	3691.3	3737.1	3805.7	3920.1
45°	4109.0	3765.6	3456.6	3187.6	2970.1	2827.0	2758.4	2752.7	2787.0	2867.1	2993.1
47.5°	3634.0	3267.7	2918.6	2609.6	2375.0	2220.4	2140.3	2117.5	2140.3	2214.7	2363.5
50°	3239.1	2861.5	2500.9	2180.4	1928.6	1768.4	1693.9	1665.4	1693.9	1756.9	1905.6
52.5°	2872.8	2483.7	2146.1	1837.0	1568.0	1430.7	1350.6	1333.4	1350.6	1424.9	1545.2
55°	2449.4	2117.5	1785.5	1476.5	1241.9	1104.5	1041.5	1024.4	1041.5	1110.3	1236.2
57.5°	2031.7	1745.5	1453.6	1173.2	972.9	852.6	795.5	772.5	812.6	858.4	1007.2
60°	1642.4	1413.6	1167.4	921.4	755.5	646.7	600.9	595.1	606.6	663.9	766.8
62.5°	1287.7	1098.8	904.2	703.9	566.6	520.8	463.5	457.9	469.2	503.5	583.8
65°	927.1	807.0	658.1	515.0	406.4	343.4	320.5	326.3	337.6	360.6	434.9
67.5°	646.7	560.8	457.9	360.6	280.5	251.8	228.9	223.2	228.9	269.0	309.0
70°	434.9	383.4	309.0	274.7	194.6	154.5	160.2	143.1	165.9	165.9	200.2
72.5°	286.1	251.8	206.0	160.2	137.4	108.8	108.8	103.1	114.4	120.1	148.8
75°	148.8	114.4	114.4	80.1	57.3	28.6	51.5	45.8	40.0	45.8	57.3
77.5°	103.1	85.8	80.1	63.0	57.3	45.8	45.8	45.8	45.8	51.5	57.3
80°	63.0	63.0	45.8	40.0	34.3	28.6	34.3	34.3	34.3	34.3	40.0
82.5°	40.0	34.3	34.3	28.6	28.6	22.8	22.8	22.8	22.8	22.8	34.3
85°	34.3	22.8	22.8	17.2	22.8	40.0	17.2	22.8	22.8	22.8	17.2
87.5°	11.5	17.2	17.2	17.2	11.5	5.7	11.5	17.2	17.2	28.6	22.8
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	10661.6	10661.6	10661.6	10661.6	10661.6	10661.6	10661.6	10661.6	10661.6	10661.6	10661.6
2.5°	10678.8	10684.6	10684.6	10678.8	10678.8	10667.4	10690.2	10673.1	10678.8	10701.7	10684.6
5°	10690.2	10695.9	10695.9	10690.2	10690.2	10690.2	10695.9	10695.9	10690.2	10684.6	10695.9
7.5°	10713.1	10707.4	10707.4	10695.9	10695.9	10684.6	10695.9	10678.8	10690.2	10678.8	10695.9
10°	10684.6	10690.2	10684.6	10678.8	10678.8	10673.1	10673.1	10655.9	10661.6	10644.4	10655.9
12.5°	10667.4	10661.6	10661.6	10650.1	10638.8	10627.3	10621.6	10604.3	10604.3	10564.3	10581.5
15°	10621.6	10627.3	10610.1	10587.3	10575.8	10547.2	10535.7	10512.8	10489.9	10461.4	10467.1
17.5°	10581.5	10564.3	10541.5	10518.5	10472.7	10449.9	10426.9	10392.6	10381.1	10346.8	10335.5
20°	10461.4	10449.9	10421.3	10381.1	10352.6	10301.0	10278.2	10243.9	10215.2	10180.9	10163.7
22.5°	10306.8	10295.3	10261.0	10220.9	10175.2	10152.3	10129.4	10066.5	10037.8	10003.5	9997.7
25°	10112.3	10095.1	10060.7	10015.0	9992.0	9929.1	9906.2	9860.4	9849.0	9814.6	9809.0
27.5°	9814.6	9791.8	9751.7	9694.4	9654.4	9614.3	9591.5	9557.1	9545.7	9511.3	9505.7
30°	9368.3	9339.6	9259.5	9236.7	9167.9	9127.9	9127.9	9082.1	9087.8	9065.0	9065.0
32.5°	8664.4	8618.6	8555.6	8509.8	8464.0	8441.2	8441.2	8424.0	8435.4	8435.4	8446.9
35°	7731.5	7668.6	7634.2	7605.6	7605.6	7628.5	7697.2	7714.4	7748.7	7777.3	7800.3
37.5°	6535.4	6529.8	6569.8	6604.2	6690.0	6787.3	6907.5	7010.5	7107.7	7176.4	7245.1
40°	5242.1	5385.2	5499.6	5659.9	5791.4	5980.3	6197.8	6375.2	6541.1	6661.4	6787.3
42.5°	4091.8	4274.9	4515.3	4749.9	4984.6	5242.1	5528.3	5774.3	5991.8	6157.7	6289.4
45°	3187.6	3439.4	3731.3	4028.9	4332.2	4652.7	4950.3	5202.0	5431.0	5602.7	5734.3
47.5°	2569.5	2844.3	3176.1	3502.4	3845.7	4183.3	4515.3	4732.8	4921.6	5058.9	5179.2
50°	2123.1	2415.1	2764.2	3136.1	3479.4	3817.2	4103.2	4315.0	4469.6	4589.7	4664.1
52.5°	1774.0	2083.1	2455.1	2827.0	3170.4	3479.4	3737.1	3897.3	4023.2	4109.0	4177.6
55°	1465.0	1762.7	2111.8	2460.9	2798.5	3090.3	3302.0	3422.3	3519.5	3571.0	3611.1
57.5°	1196.1	1470.7	1791.2	2111.8	2403.6	2644.0	2809.9	2930.1	2975.9	3015.9	3010.2
60°	938.6	1196.1	1487.9	1762.7	2014.4	2208.9	2329.2	2397.8	2432.2	2449.4	2437.9
62.5°	738.2	972.9	1196.1	1436.4	1619.6	1785.5	1900.0	1900.0	1917.1	1922.9	1940.1
65°	549.3	726.7	921.4	1098.8	1247.5	1356.3	1419.3	1436.4	1459.4	1453.6	1442.2
67.5°	406.4	538.0	681.0	812.6	915.6	984.3	1030.1	1070.2	1064.5	1053.0	1047.3
70°	280.5	366.3	492.2	572.3	646.7	715.4	726.7	732.5	738.2	744.0	732.5
72.5°	194.6	257.5	326.3	394.9	440.7	469.2	497.9	503.5	503.5	503.5	497.9
75°	97.3	131.6	194.6	223.2	263.3	274.7	297.6	297.6	314.8	291.8	286.1
77.5°	85.8	103.1	137.4	160.2	177.4	194.6	200.2	217.5	211.7	200.2	206.0
80°	51.5	63.0	85.8	97.3	120.1	125.9	131.6	137.4	131.6	137.4	137.4
82.5°	40.0	45.8	57.3	57.3	74.4	74.4	80.1	80.1	85.8	85.8	85.8
85°	22.8	40.0	34.3	68.6	45.8	45.8	57.3	68.6	57.3	57.3	68.6
87.5°	22.8	22.8	17.2	22.8	22.8	22.8	28.6	34.3	34.3	40.0	34.3
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: P249171

CATALOG NUMBER: LD8B200D010 ER8B200950 8LBDW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	10661.6	10661.6	10661.6	10661.6
2.5°	10678.8	10690.2	10673.1	10667.4
5°	10695.9	10695.9	10684.6	10684.6
7.5°	10695.9	10695.9	10678.8	10667.4
10°	10650.1	10650.1	10633.0	10621.6
12.5°	10564.3	10564.3	10558.6	10541.5
15°	10455.6	10455.6	10432.7	10415.6
17.5°	10306.8	10318.3	10289.7	10289.7
20°	10146.6	10140.8	10118.0	10106.5
22.5°	9980.7	9969.2	9963.4	9929.1
25°	9803.2	9791.8	9774.5	9757.4
27.5°	9499.9	9494.2	9477.0	9454.1
30°	9036.3	9030.6	9007.7	9007.7
32.5°	8435.4	8429.7	8406.9	8412.6
35°	7811.6	7834.6	7823.1	7800.3
37.5°	7290.9	7308.1	7319.6	7308.1
40°	6855.9	6907.5	6913.2	6924.7
42.5°	6392.4	6461.0	6484.0	6495.4
45°	5837.2	5900.2	5951.8	5940.3
47.5°	5270.7	5316.5	5362.2	5327.9
50°	4727.1	4755.6	4772.9	4772.9
52.5°	4212.0	4212.0	4206.3	4212.0
55°	3622.5	3622.5	3599.7	3611.1
57.5°	3004.4	3015.9	2998.7	2970.1
60°	2432.2	2403.6	2392.1	2375.0
62.5°	1894.3	1894.3	1854.3	1905.6
65°	1419.3	1402.1	1384.9	1379.1
67.5°	1030.1	1024.4	1007.2	1001.5
70°	726.7	703.9	698.2	686.7
72.5°	486.5	486.5	475.0	475.0
75°	297.6	269.0	263.3	269.0
77.5°	206.0	200.2	200.2	194.6
80°	137.4	131.6	143.1	125.9
82.5°	85.8	91.6	85.8	91.6
85°	57.3	68.6	63.0	63.0
87.5°	34.3	34.3	34.3	34.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)