

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: P248730

Luminaire Tested: **LD8B200D010 ER8B200940 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248730
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13958)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B200940 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 4000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19096.0 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

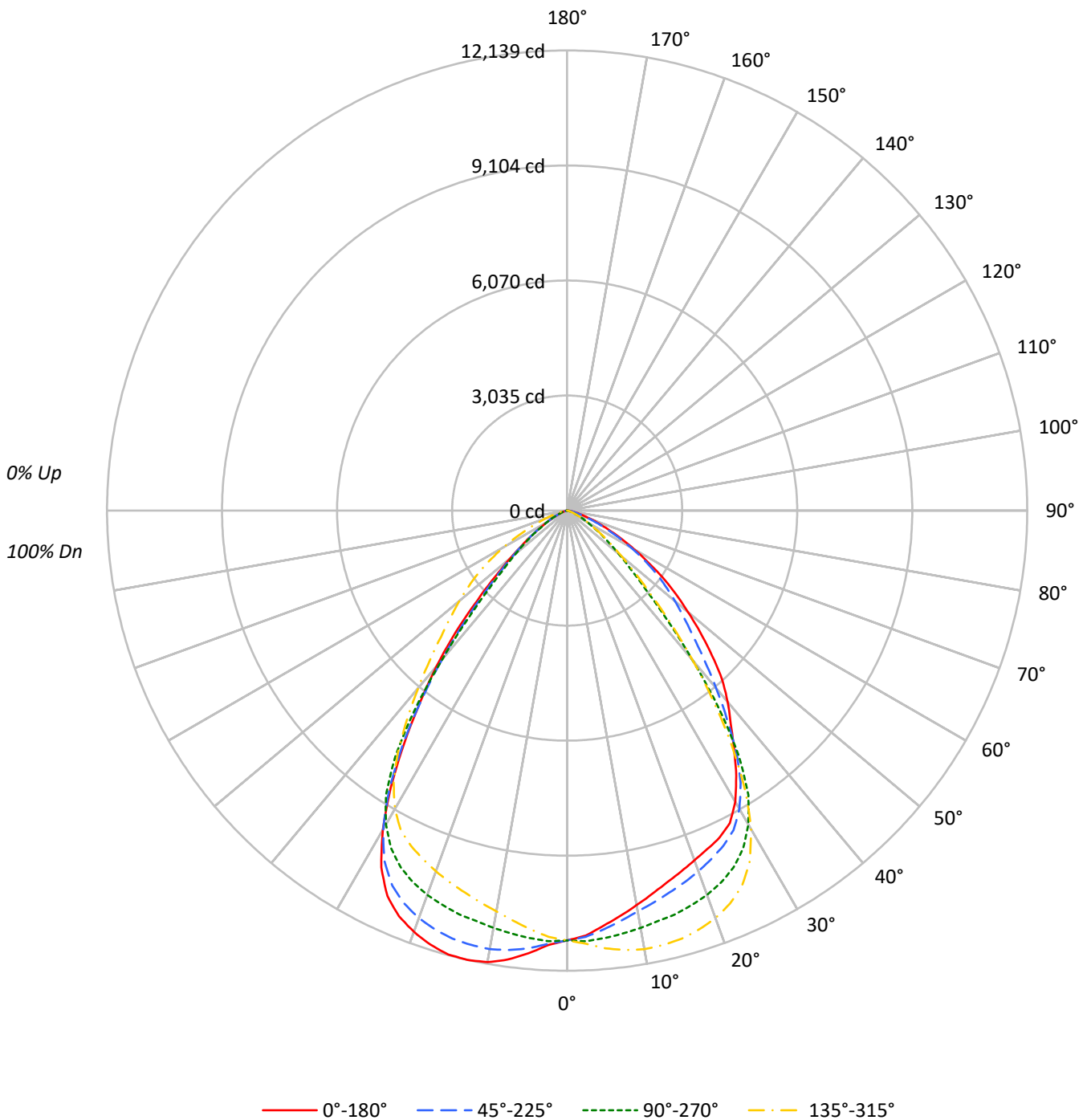
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P248730

CATALOG NUMBER: LD8B200D010 ER8B200940 8LBSW0WMH

Luminous Intensity Polar Plot





TEST NUMBER: P248730

CATALOG NUMBER: LD8B200D010 ER8B200940 8LBSW0WMH

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	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90					90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81					81			
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72					72			
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65					65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58					58			
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53					53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48					48			
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44					44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	349582	349582	349582	349582
5°	340297	350404	362915	350404
10°	330883	349946	378719	349946
15°	324272	352021	387010	352021
20°	322066	354035	388002	354035
25°	323756	353323	381768	353323
30°	315753	340389	346507	340389
35°	288814	296937	281729	296937
40°	265161	206555	215701	206555
45°	235607	126009	145803	126009
50°	199423	84173	93475	84173
55°	165171	57439	60707	57439
60°	125973	38237	38570	38237
65°	89258	23823	21809	23823
70°	64383	15958	14480	15958
75°	40878	7923	6600	7923
80°	28519	5913	4901	5913
85°	25474	0	1946	0



TEST NUMBER: P248730

CATALOG NUMBER: LD8B200D010 ER8B200940 8LBSW0WMH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1079.0	5.7
10°-20°	3124.7	16.4
20°-30°	4731.5	24.8
30°-40°	4742.1	24.8
40°-50°	2977.8	15.6
50°-60°	1586.9	8.3
60°-70°	652.5	3.4
70°-80°	172.4	0.9
80°-90°	29.2	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°	8935.2	46.8
0°-40°	13677.3	71.6
0°-60°	18241.9	95.5
0°-90°	19096.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19096.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	11337	11337	11337	11337	11337	
5°	10994	11320	11724	11320	10994	###
15°	10158	11027	12123	11027	10158	2873
25°	9516	10384	11220	10384	9516	4364
35°	7672	7888	7484	7888	7672	4807
45°	5403	2890	3343	2890	5403	4155
55°	3072	1068	1129	1068	3072	2739
65°	1223	326	299	326	1223	1269
75°	343	66	55	66	343	389
85°	72	0	6	0	72	79
90°	0	0	0	0	0	



TEST NUMBER: P248730

CATALOG NUMBER: LD8B200D010 ER8B200940 8LBSW0WMH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	11336.7	11336.7	11336.7	11336.7	11336.7	11336.7	11336.7	11336.7	11336.7	11336.7	11336.7
2.5°	11220.5	11209.3	11203.9	11215.0	11220.5	11242.6	11237.1	11248.1	11248.1	11253.8	11264.7
5°	10993.6	10987.9	10993.6	10993.6	11015.7	11037.8	11032.3	11048.9	11059.9	11087.7	11098.6
7.5°	10783.3	10783.3	10777.6	10799.7	10810.8	10844.1	10838.4	10866.2	10882.8	10910.4	10949.1
10°	10567.3	10567.3	10572.7	10589.4	10595.1	10644.7	10644.7	10683.5	10705.6	10733.4	10783.3
12.5°	10357.0	10357.0	10390.2	10379.1	10401.2	10439.9	10456.5	10495.3	10528.5	10583.9	10633.8
15°	10157.6	10157.6	10168.8	10196.3	10213.0	10262.9	10290.4	10334.9	10373.6	10429.0	10501.0
17.5°	9986.0	9980.6	9986.0	10019.3	10052.6	10096.8	10118.9	10174.2	10213.0	10285.0	10351.5
20°	9814.5	9825.6	9825.6	9853.2	9875.3	9930.7	9952.8	10013.8	10058.0	10124.3	10202.0
22.5°	9665.0	9659.5	9659.5	9698.3	9714.9	9764.6	9786.7	9842.0	9891.9	9947.3	10019.3
25°	9515.5	9504.4	9526.7	9532.2	9543.1	9598.5	9615.1	9653.8	9703.7	9753.6	9825.6
27.5°	9294.1	9283.1	9288.6	9310.7	9327.3	9371.5	9382.7	9421.4	9460.2	9504.4	9565.4
30°	8867.8	8856.8	8851.3	8890.1	8906.7	8939.8	8956.4	9022.9	9033.9	9083.8	9128.0
32.5°	8303.2	8297.7	8308.8	8341.9	8358.5	8402.9	8425.1	8463.8	8491.4	8519.2	8563.4
35°	7672.2	7661.1	7672.2	7705.5	7705.5	7744.2	7760.9	7777.3	7771.8	7777.3	7766.3
37.5°	7085.5	7079.8	7085.5	7102.0	7085.5	7102.0	7085.5	7052.3	6991.4	6924.9	6858.4
40°	6587.2	6592.7	6559.7	6581.8	6520.7	6509.8	6448.9	6365.8	6244.1	6111.3	5923.1
42.5°	6055.9	6039.3	6017.2	6028.1	5978.4	5939.5	5839.9	5734.9	5579.7	5358.5	5131.3
45°	5402.7	5397.2	5386.0	5380.6	5347.3	5308.6	5225.4	5103.7	4932.2	4705.2	4433.9
47.5°	4766.1	4749.4	4749.4	4754.9	4716.2	4710.7	4644.2	4539.1	4389.7	4168.2	3885.9
50°	4157.0	4151.6	4162.7	4184.8	4157.0	4146.1	4101.9	4029.9	3897.1	3708.9	3443.0
52.5°	3609.1	3603.6	3614.8	3642.3	3631.2	3642.3	3598.1	3542.8	3454.1	3271.4	3039.0
55°	3072.3	3072.3	3072.3	3105.3	3105.3	3105.3	3083.2	3050.2	2967.0	2834.2	2618.4
57.5°	2513.1	2518.6	2551.9	2557.3	2551.9	2563.0	2557.3	2524.1	2468.9	2374.8	2208.7
60°	2042.6	2042.6	2059.3	2075.9	2070.2	2075.9	2075.9	2059.3	2003.9	1926.4	1793.6
62.5°	1616.3	1633.0	1621.8	1633.0	1655.1	1633.0	1621.8	1610.9	1572.1	1522.2	1411.5
65°	1223.3	1234.5	1234.5	1239.9	1228.8	1234.5	1212.4	1195.7	1173.6	1118.3	1046.3
67.5°	930.1	930.1	930.1	930.1	924.4	918.9	913.4	896.8	858.1	836.0	758.3
70°	714.1	680.8	680.8	680.8	680.8	686.5	669.9	647.8	636.6	597.9	542.5
72.5°	476.0	487.1	476.0	476.0	465.0	470.5	448.4	437.2	426.3	404.2	370.9
75°	343.1	315.6	326.5	332.2	315.6	326.5	304.4	282.3	282.3	265.7	249.0
77.5°	221.5	216.0	221.5	226.9	221.5	216.0	204.8	193.7	193.7	188.2	171.6
80°	160.6	154.9	154.9	154.9	149.5	154.9	144.0	144.0	132.8	127.4	116.2
82.5°	105.3	105.3	99.6	105.3	99.6	105.3	88.6	88.6	88.6	82.9	72.0
85°	72.0	60.8	60.8	66.5	55.4	66.5	60.8	55.4	49.9	49.9	44.2
87.5°	33.3	38.7	33.3	38.7	33.3	33.3	38.7	33.3	33.3	22.1	22.1
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: P248730

CATALOG NUMBER: LD8B200D010 ER8B200940 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	11336.7	11336.7	11336.7	11336.7	11336.7	11336.7	11336.7	11336.7	11336.7	11336.7	11336.7
2.5°	11281.3	11286.8	11286.8	11309.1	11320.1	11325.5	11325.5	11370.0	11353.3	11364.5	11375.4
5°	11120.9	11154.0	11165.1	11165.1	11226.0	11248.1	11270.2	11320.1	11325.5	11358.8	11397.5
7.5°	10965.8	11004.5	11026.8	11076.5	11115.2	11154.0	11220.5	11253.8	11286.8	11331.2	11380.9
10°	10816.3	10860.7	10904.9	10943.7	11004.5	11054.4	11098.6	11176.1	11215.0	11275.9	11342.2
12.5°	10672.5	10733.4	10772.1	10838.4	10904.9	10949.1	11015.7	11087.7	11148.5	11209.3	11286.8
15°	10545.2	10617.2	10661.4	10733.4	10805.4	10866.2	10938.2	11026.8	11071.0	11143.0	11215.0
17.5°	10406.6	10484.3	10539.7	10606.0	10694.6	10760.9	10822.0	10910.4	10965.8	11043.2	11126.4
20°	10262.9	10340.3	10406.6	10473.2	10561.8	10628.1	10700.1	10788.7	10849.6	10927.0	10993.6
22.5°	10091.3	10163.3	10235.1	10312.5	10401.2	10456.5	10539.7	10617.2	10683.5	10755.5	10822.0
25°	9869.8	9958.5	10013.8	10085.6	10157.6	10218.4	10307.1	10384.5	10439.9	10506.4	10567.3
27.5°	9609.6	9676.2	9720.4	9781.2	9853.2	9908.6	9974.9	10052.6	10107.9	10168.8	10213.0
30°	9166.7	9227.8	9266.5	9310.7	9382.7	9432.6	9488.0	9559.7	9598.5	9642.9	9681.6
32.5°	8585.5	8635.4	8657.5	8690.7	8740.6	8790.3	8834.7	8895.6	8912.2	8939.8	8939.8
35°	7744.2	7755.2	7749.7	7760.9	7783.0	7810.6	7849.3	7888.0	7910.1	7910.1	7893.7
37.5°	6758.8	6692.5	6620.5	6565.1	6548.5	6537.3	6559.7	6576.1	6598.4	6609.3	6581.8
40°	5734.9	5585.4	5424.8	5280.8	5181.2	5137.0	5120.4	5131.3	5131.3	5170.0	5170.0
42.5°	4854.7	4622.1	4384.2	4168.2	4024.2	3913.7	3863.8	3863.8	3869.3	3897.1	3913.7
45°	4124.0	3830.5	3553.7	3315.8	3116.5	2972.5	2906.2	2889.5	2884.1	2895.0	2933.7
47.5°	3564.9	3260.5	2972.5	2679.2	2468.9	2324.9	2264.1	2241.8	2219.7	2241.8	2247.5
50°	3127.6	2812.1	2507.7	2214.2	1992.7	1865.4	1787.9	1754.6	1749.2	1749.2	1760.3
52.5°	2728.9	2435.7	2131.3	1832.3	1599.7	1478.0	1406.0	1389.4	1367.3	1389.4	1389.4
55°	2352.5	2059.3	1760.3	1478.0	1284.1	1157.0	1090.5	1068.4	1057.2	1073.8	1073.8
57.5°	1943.1	1693.8	1417.2	1162.5	968.8	880.2	830.3	802.7	797.0	808.2	797.0
60°	1594.2	1383.9	1145.8	913.4	764.0	669.9	631.1	620.0	608.8	620.0	620.0
62.5°	1262.0	1085.0	891.1	714.1	586.7	520.4	476.0	476.0	470.5	470.5	476.0
65°	935.5	797.0	658.7	509.2	409.7	359.8	326.5	326.5	321.0	326.5	321.0
67.5°	680.8	586.7	476.0	370.9	293.5	265.7	243.6	226.9	238.1	226.9	221.5
70°	498.3	420.6	343.1	282.3	226.9	199.4	182.7	177.0	166.1	166.1	166.1
72.5°	332.2	282.3	232.4	182.7	149.5	121.7	116.2	105.3	94.1	99.6	110.7
75°	221.5	188.2	166.1	132.8	99.6	99.6	66.5	66.5	55.4	66.5	49.9
77.5°	154.9	127.4	99.6	82.9	66.5	60.8	44.2	44.2	38.7	38.7	38.7
80°	110.7	94.1	72.0	60.8	44.2	44.2	38.7	33.3	27.6	27.6	33.3
82.5°	66.5	49.9	49.9	44.2	27.6	22.1	16.6	22.1	11.2	11.2	11.2
85°	38.7	33.3	27.6	16.6	11.2	11.2	5.5	0.0	5.5	5.5	0.0
87.5°	22.1	11.2	11.2	5.5	0.0	5.5	5.5	0.0	0.0	0.0	11.2
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: P248730

CATALOG NUMBER: LD8B200D010 ER8B200940 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	11336.7	11336.7	11336.7	11336.7	11336.7	11336.7	11336.7	11336.7	11336.7	11336.7	11336.7
2.5°	11403.2	11397.5	11408.7	11408.7	11442.0	11436.3	11452.9	11452.9	11442.0	11447.4	11469.5
5°	11442.0	11458.6	11491.6	11519.4	11569.1	11591.4	11619.0	11646.8	11652.3	11668.9	11685.5
7.5°	11442.0	11497.3	11536.1	11585.7	11652.3	11691.0	11751.8	11801.7	11823.8	11851.4	11884.7
10°	11419.6	11475.0	11547.0	11602.4	11685.5	11746.4	11807.2	11884.7	11917.9	11962.1	12006.6
12.5°	11375.4	11436.3	11513.7	11585.7	11679.8	11735.2	11812.7	11884.7	11934.6	11995.4	12045.3
15°	11309.1	11380.9	11452.9	11524.9	11624.5	11691.0	11763.0	11845.9	11895.8	11962.1	12006.6
17.5°	11203.9	11281.3	11347.9	11414.2	11508.3	11585.7	11652.3	11729.7	11779.6	11835.0	11895.8
20°	11076.5	11148.5	11220.5	11275.9	11370.0	11436.3	11508.3	11580.3	11619.0	11630.2	11724.3
22.5°	10916.1	10965.8	11021.1	11109.8	11165.1	11226.0	11292.5	11358.8	11397.5	11458.6	11491.6
25°	10650.2	10700.1	10760.9	10799.7	10866.2	10916.1	10982.4	11054.4	11076.5	11120.9	11154.0
27.5°	10279.5	10307.1	10334.9	10367.9	10406.6	10434.4	10473.2	10506.4	10528.5	10550.6	10572.7
30°	9692.6	9692.6	9692.6	9670.5	9687.1	9703.7	9709.2	9703.7	9703.7	9698.3	9698.3
32.5°	8917.7	8873.5	8823.6	8779.4	8762.7	8740.6	8729.5	8712.8	8685.3	8668.6	8674.1
35°	7871.4	7771.8	7711.0	7655.6	7611.4	7578.1	7561.5	7544.9	7539.4	7517.3	7495.0
37.5°	6565.1	6493.1	6448.9	6415.7	6376.9	6343.7	6349.1	6354.8	6371.2	6360.3	6365.8
40°	5181.2	5164.6	5181.2	5142.5	5131.3	5142.5	5170.0	5209.0	5231.1	5253.2	5291.9
42.5°	3941.3	3968.8	4007.8	4007.8	4024.2	4046.5	4079.6	4140.6	4173.7	4212.4	4256.8
45°	2967.0	3000.3	3050.2	3066.6	3077.7	3105.3	3144.3	3193.9	3216.0	3249.3	3288.0
47.5°	2286.2	2308.3	2335.9	2363.7	2391.2	2402.4	2441.1	2441.1	2468.9	2491.0	2502.0
50°	1782.4	1804.5	1826.6	1843.3	1854.4	1871.1	1882.0	1898.6	1904.1	1915.3	1920.7
52.5°	1394.9	1422.7	1422.7	1433.6	1450.2	1466.9	1461.4	1466.9	1472.3	1472.3	1489.0
55°	1090.5	1090.5	1107.1	1107.1	1118.3	1112.6	1118.3	1118.3	1118.3	1118.3	1123.7
57.5°	813.6	819.3	836.0	824.8	819.3	830.3	819.3	830.3	824.8	836.0	819.3
60°	625.4	625.4	631.1	631.1	636.6	636.6	636.6	631.1	631.1	625.4	625.4
62.5°	470.5	476.0	481.7	476.0	476.0	476.0	470.5	470.5	465.0	459.3	459.3
65°	315.6	310.1	321.0	310.1	315.6	315.6	310.1	315.6	298.9	304.4	298.9
67.5°	226.9	221.5	216.0	221.5	216.0	210.3	210.3	216.0	221.5	204.8	204.8
70°	149.5	154.9	149.5	154.9	160.6	160.6	154.9	149.5	154.9	144.0	149.5
72.5°	94.1	94.1	94.1	94.1	94.1	99.6	99.6	99.6	88.6	88.6	82.9
75°	44.2	60.8	49.9	44.2	60.8	60.8	55.4	55.4	49.9	49.9	49.9
77.5°	44.2	33.3	33.3	33.3	33.3	33.3	33.3	33.3	27.6	33.3	27.6
80°	22.1	22.1	22.1	16.6	22.1	22.1	27.6	22.1	22.1	16.6	27.6
82.5°	11.2	11.2	11.2	0.0	5.5	11.2	11.2	5.5	11.2	11.2	5.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P248730

CATALOG NUMBER: LD8B200D010 ER8B200940 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	11336.7	11336.7	11336.7	11336.7	11336.7	11336.7	11336.7	11336.7	11336.7	11336.7	11336.7
2.5°	11464.1	11458.6	11464.1	11469.5	11464.1	11458.6	11464.1	11469.5	11447.4	11442.0	11452.9
5°	11707.6	11707.6	11718.6	11724.3	11718.6	11707.6	11707.6	11685.5	11668.9	11652.3	11646.8
7.5°	11917.9	11929.1	11940.0	11945.5	11940.0	11929.1	11917.9	11884.7	11851.4	11823.8	11801.7
10°	12045.3	12061.9	12084.0	12095.0	12084.0	12061.9	12045.3	12006.6	11962.1	11917.9	11884.7
12.5°	12100.7	12117.3	12144.9	12139.4	12144.9	12117.3	12100.7	12045.3	11995.4	11934.6	11884.7
15°	12061.9	12084.0	12111.6	12122.8	12111.6	12084.0	12061.9	12006.6	11962.1	11895.8	11845.9
17.5°	11940.0	11973.3	11989.9	12006.6	11989.9	11973.3	11940.0	11895.8	11835.0	11779.6	11729.7
20°	11773.9	11796.3	11818.4	11823.8	11818.4	11796.3	11773.9	11724.3	11630.2	11619.0	11580.3
22.5°	11536.1	11552.7	11602.4	11585.7	11602.4	11552.7	11536.1	11491.6	11458.6	11397.5	11358.8
25°	11192.7	11209.3	11215.0	11220.5	11215.0	11209.3	11192.7	11154.0	11120.9	11076.5	11054.4
27.5°	10600.5	10600.5	10611.5	10617.2	10611.5	10600.5	10600.5	10572.7	10550.6	10528.5	10506.4
30°	9703.7	9703.7	9703.7	9731.5	9703.7	9703.7	9703.7	9698.3	9698.3	9703.7	9703.7
32.5°	8668.6	8657.5	8646.5	8657.5	8646.5	8657.5	8668.6	8674.1	8668.6	8685.3	8712.8
35°	7495.0	7489.5	7506.1	7484.0	7506.1	7489.5	7495.0	7495.0	7517.3	7539.4	7544.9
37.5°	6371.2	6360.3	6382.4	6360.3	6382.4	6360.3	6371.2	6365.8	6360.3	6371.2	6354.8
40°	5303.1	5314.0	5314.0	5358.5	5314.0	5314.0	5303.1	5291.9	5253.2	5231.1	5209.0
42.5°	4278.9	4312.2	4301.0	4334.3	4301.0	4312.2	4278.9	4256.8	4212.4	4173.7	4140.6
45°	3310.1	3332.5	3332.5	3343.4	3332.5	3332.5	3310.1	3288.0	3249.3	3216.0	3193.9
47.5°	2540.7	2540.7	2540.7	2546.4	2540.7	2540.7	2540.7	2502.0	2491.0	2468.9	2441.1
50°	1931.9	1937.4	1943.1	1948.5	1943.1	1937.4	1931.9	1920.7	1915.3	1904.1	1898.6
52.5°	1483.5	1489.0	1478.0	1489.0	1478.0	1489.0	1483.5	1489.0	1472.3	1472.3	1466.9
55°	1123.7	1118.3	1123.7	1129.2	1123.7	1118.3	1123.7	1123.7	1118.3	1118.3	1118.3
57.5°	824.8	813.6	813.6	813.6	813.6	813.6	824.8	819.3	836.0	824.8	830.3
60°	614.5	620.0	620.0	625.4	620.0	620.0	614.5	625.4	625.4	631.1	631.1
62.5°	453.9	470.5	459.3	470.5	459.3	470.5	453.9	459.3	459.3	465.0	470.5
65°	293.5	293.5	293.5	298.9	293.5	293.5	293.5	298.9	304.4	298.9	315.6
67.5°	199.4	204.8	216.0	210.3	216.0	204.8	199.4	204.8	204.8	221.5	216.0
70°	160.6	144.0	144.0	160.6	144.0	144.0	160.6	149.5	144.0	154.9	149.5
72.5°	94.1	82.9	94.1	94.1	94.1	82.9	94.1	82.9	88.6	88.6	99.6
75°	49.9	44.2	38.7	55.4	38.7	44.2	49.9	49.9	49.9	49.9	55.4
77.5°	33.3	27.6	38.7	38.7	38.7	27.6	33.3	27.6	33.3	27.6	33.3
80°	16.6	22.1	16.6	27.6	16.6	22.1	16.6	27.6	16.6	22.1	22.1
82.5°	5.5	11.2	11.2	11.2	11.2	11.2	5.5	5.5	11.2	11.2	5.5
85°	0.0	11.2	5.5	5.5	5.5	11.2	0.0	0.0	0.0	0.0	0.0
87.5°	5.5	0.0	0.0	5.5	0.0	0.0	5.5	0.0	0.0	0.0	0.0
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: P248730

CATALOG NUMBER: LD8B200D010 ER8B200940 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	11336.7	11336.7	11336.7	11336.7	11336.7	11336.7	11336.7	11336.7	11336.7	11336.7	11336.7
2.5°	11452.9	11436.3	11442.0	11408.7	11408.7	11397.5	11403.2	11375.4	11364.5	11353.3	11370.0
5°	11619.0	11591.4	11569.1	11519.4	11491.6	11458.6	11442.0	11397.5	11358.8	11325.5	11320.1
7.5°	11751.8	11691.0	11652.3	11585.7	11536.1	11497.3	11442.0	11380.9	11331.2	11286.8	11253.8
10°	11807.2	11746.4	11685.5	11602.4	11547.0	11475.0	11419.6	11342.2	11275.9	11215.0	11176.1
12.5°	11812.7	11735.2	11679.8	11585.7	11513.7	11436.3	11375.4	11286.8	11209.3	11148.5	11087.7
15°	11763.0	11691.0	11624.5	11524.9	11452.9	11380.9	11309.1	11215.0	11143.0	11071.0	11026.8
17.5°	11652.3	11585.7	11508.3	11414.2	11347.9	11281.3	11203.9	11126.4	11043.2	10965.8	10910.4
20°	11508.3	11436.3	11370.0	11275.9	11220.5	11148.5	11076.5	10993.6	10927.0	10849.6	10788.7
22.5°	11292.5	11226.0	11165.1	11109.8	11021.1	10965.8	10916.1	10822.0	10755.5	10683.5	10617.2
25°	10982.4	10916.1	10866.2	10799.7	10760.9	10700.1	10650.2	10567.3	10506.4	10439.9	10384.5
27.5°	10473.2	10434.4	10406.6	10367.9	10334.9	10307.1	10279.5	10213.0	10168.8	10107.9	10052.6
30°	9709.2	9703.7	9687.1	9670.5	9692.6	9692.6	9692.6	9681.6	9642.9	9598.5	9559.7
32.5°	8729.5	8740.6	8762.7	8779.4	8823.6	8873.5	8917.7	8939.8	8939.8	8912.2	8895.6
35°	7561.5	7578.1	7611.4	7655.6	7711.0	7771.8	7871.4	7893.7	7910.1	7910.1	7888.0
37.5°	6349.1	6343.7	6376.9	6415.7	6448.9	6493.1	6565.1	6581.8	6609.3	6598.4	6576.1
40°	5170.0	5142.5	5131.3	5142.5	5181.2	5164.6	5181.2	5170.0	5170.0	5131.3	5131.3
42.5°	4079.6	4046.5	4024.2	4007.8	4007.8	3968.8	3941.3	3913.7	3897.1	3869.3	3863.8
45°	3144.3	3105.3	3077.7	3066.6	3050.2	3000.3	2967.0	2933.7	2895.0	2884.1	2889.5
47.5°	2441.1	2402.4	2391.2	2363.7	2335.9	2308.3	2286.2	2247.5	2241.8	2219.7	2241.8
50°	1882.0	1871.1	1854.4	1843.3	1826.6	1804.5	1782.4	1760.3	1749.2	1749.2	1754.6
52.5°	1461.4	1466.9	1450.2	1433.6	1422.7	1422.7	1394.9	1389.4	1389.4	1367.3	1389.4
55°	1118.3	1112.6	1118.3	1107.1	1107.1	1090.5	1090.5	1073.8	1073.8	1057.2	1068.4
57.5°	819.3	830.3	819.3	824.8	836.0	819.3	813.6	797.0	808.2	797.0	802.7
60°	636.6	636.6	636.6	631.1	631.1	625.4	625.4	620.0	620.0	608.8	620.0
62.5°	470.5	476.0	476.0	476.0	481.7	476.0	470.5	476.0	470.5	470.5	476.0
65°	310.1	315.6	315.6	310.1	321.0	310.1	315.6	321.0	326.5	321.0	326.5
67.5°	210.3	210.3	216.0	221.5	216.0	221.5	226.9	221.5	226.9	238.1	226.9
70°	154.9	160.6	160.6	154.9	149.5	154.9	149.5	166.1	166.1	166.1	177.0
72.5°	99.6	99.6	94.1	94.1	94.1	94.1	94.1	110.7	99.6	94.1	105.3
75°	55.4	60.8	60.8	44.2	49.9	60.8	44.2	49.9	66.5	55.4	66.5
77.5°	33.3	33.3	33.3	33.3	33.3	33.3	44.2	38.7	38.7	38.7	44.2
80°	27.6	22.1	22.1	16.6	22.1	22.1	22.1	33.3	27.6	27.6	33.3
82.5°	11.2	11.2	5.5	0.0	11.2	11.2	11.2	11.2	11.2	11.2	22.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	5.5	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.2	0.0	0.0	0.0
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: P248730

CATALOG NUMBER: LD8B200D010 ER8B200940 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	11336.7	11336.7	11336.7	11336.7	11336.7	11336.7	11336.7	11336.7	11336.7	11336.7	11336.7
2.5°	11325.5	11325.5	11320.1	11309.1	11286.8	11286.8	11281.3	11264.7	11253.8	11248.1	11248.1
5°	11270.2	11248.1	11226.0	11165.1	11165.1	11154.0	11120.9	11098.6	11087.7	11059.9	11048.9
7.5°	11220.5	11154.0	11115.2	11076.5	11026.8	11004.5	10965.8	10949.1	10910.4	10882.8	10866.2
10°	11098.6	11054.4	11004.5	10943.7	10904.9	10860.7	10816.3	10783.3	10733.4	10705.6	10683.5
12.5°	11015.7	10949.1	10904.9	10838.4	10772.1	10733.4	10672.5	10633.8	10583.9	10528.5	10495.3
15°	10938.2	10866.2	10805.4	10733.4	10661.4	10617.2	10545.2	10501.0	10429.0	10373.6	10334.9
17.5°	10822.0	10760.9	10694.6	10606.0	10539.7	10484.3	10406.6	10351.5	10285.0	10213.0	10174.2
20°	10700.1	10628.1	10561.8	10473.2	10406.6	10340.3	10262.9	10202.0	10124.3	10058.0	10013.8
22.5°	10539.7	10456.5	10401.2	10312.5	10235.1	10163.3	10091.3	10019.3	9947.3	9891.9	9842.0
25°	10307.1	10218.4	10157.6	10085.6	10013.8	9958.5	9869.8	9825.6	9753.6	9703.7	9653.8
27.5°	9974.9	9908.6	9853.2	9781.2	9720.4	9676.2	9609.6	9565.4	9504.4	9460.2	9421.4
30°	9488.0	9432.6	9382.7	9310.7	9266.5	9227.8	9166.7	9128.0	9083.8	9033.9	9022.9
32.5°	8834.7	8790.3	8740.6	8690.7	8657.5	8635.4	8585.5	8563.4	8519.2	8491.4	8463.8
35°	7849.3	7810.6	7783.0	7760.9	7749.7	7755.2	7744.2	7766.3	7777.3	7771.8	7777.3
37.5°	6559.7	6537.3	6548.5	6565.1	6620.5	6692.5	6758.8	6858.4	6924.9	6991.4	7052.3
40°	5120.4	5137.0	5181.2	5280.8	5424.8	5585.4	5734.9	5923.1	6111.3	6244.1	6365.8
42.5°	3863.8	3913.7	4024.2	4168.2	4384.2	4622.1	4854.7	5131.3	5358.5	5579.7	5734.9
45°	2906.2	2972.5	3116.5	3315.8	3553.7	3830.5	4124.0	4433.9	4705.2	4932.2	5103.7
47.5°	2264.1	2324.9	2468.9	2679.2	2972.5	3260.5	3564.9	3885.9	4168.2	4389.7	4539.1
50°	1787.9	1865.4	1992.7	2214.2	2507.7	2812.1	3127.6	3443.0	3708.9	3897.1	4029.9
52.5°	1406.0	1478.0	1599.7	1832.3	2131.3	2435.7	2728.9	3039.0	3271.4	3454.1	3542.8
55°	1090.5	1157.0	1284.1	1478.0	1760.3	2059.3	2352.5	2618.4	2834.2	2967.0	3050.2
57.5°	830.3	880.2	968.8	1162.5	1417.2	1693.8	1943.1	2208.7	2374.8	2468.9	2524.1
60°	631.1	669.9	764.0	913.4	1145.8	1383.9	1594.2	1793.6	1926.4	2003.9	2059.3
62.5°	476.0	520.4	586.7	714.1	891.1	1085.0	1262.0	1411.5	1522.2	1572.1	1610.9
65°	326.5	359.8	409.7	509.2	658.7	797.0	935.5	1046.3	1118.3	1173.6	1195.7
67.5°	243.6	265.7	293.5	370.9	476.0	586.7	680.8	758.3	836.0	858.1	896.8
70°	182.7	199.4	226.9	282.3	343.1	420.6	498.3	542.5	597.9	636.6	647.8
72.5°	116.2	121.7	149.5	182.7	232.4	282.3	332.2	370.9	404.2	426.3	437.2
75°	66.5	99.6	99.6	132.8	166.1	188.2	221.5	249.0	265.7	282.3	282.3
77.5°	44.2	60.8	66.5	82.9	99.6	127.4	154.9	171.6	188.2	193.7	193.7
80°	38.7	44.2	44.2	60.8	72.0	94.1	110.7	116.2	127.4	132.8	144.0
82.5°	16.6	22.1	27.6	44.2	49.9	49.9	66.5	72.0	82.9	88.6	88.6
85°	5.5	11.2	11.2	16.6	27.6	33.3	38.7	44.2	49.9	49.9	55.4
87.5°	5.5	5.5	0.0	5.5	11.2	11.2	22.1	22.1	22.1	33.3	33.3
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: P248730

CATALOG NUMBER: LD8B200D010 ER8B200940 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	11336.7	11336.7	11336.7	11336.7	11336.7	11336.7	11336.7
2.5°	11237.1	11242.6	11220.5	11215.0	11203.9	11209.3	11220.5
5°	11032.3	11037.8	11015.7	10993.6	10993.6	10987.9	10993.6
7.5°	10838.4	10844.1	10810.8	10799.7	10777.6	10783.3	10783.3
10°	10644.7	10644.7	10595.1	10589.4	10572.7	10567.3	10567.3
12.5°	10456.5	10439.9	10401.2	10379.1	10390.2	10357.0	10357.0
15°	10290.4	10262.9	10213.0	10196.3	10168.8	10157.6	10157.6
17.5°	10118.9	10096.8	10052.6	10019.3	9986.0	9980.6	9986.0
20°	9952.8	9930.7	9875.3	9853.2	9825.6	9825.6	9814.5
22.5°	9786.7	9764.6	9714.9	9698.3	9659.5	9659.5	9665.0
25°	9615.1	9598.5	9543.1	9532.2	9526.7	9504.4	9515.5
27.5°	9382.7	9371.5	9327.3	9310.7	9288.6	9283.1	9294.1
30°	8956.4	8939.8	8906.7	8890.1	8851.3	8856.8	8867.8
32.5°	8425.1	8402.9	8358.5	8341.9	8308.8	8297.7	8303.2
35°	7760.9	7744.2	7705.5	7705.5	7672.2	7661.1	7672.2
37.5°	7085.5	7102.0	7085.5	7102.0	7085.5	7079.8	7085.5
40°	6448.9	6509.8	6520.7	6581.8	6559.7	6592.7	6587.2
42.5°	5839.9	5939.5	5978.4	6028.1	6017.2	6039.3	6055.9
45°	5225.4	5308.6	5347.3	5380.6	5386.0	5397.2	5402.7
47.5°	4644.2	4710.7	4716.2	4754.9	4749.4	4749.4	4766.1
50°	4101.9	4146.1	4157.0	4184.8	4162.7	4151.6	4157.0
52.5°	3598.1	3642.3	3631.2	3642.3	3614.8	3603.6	3609.1
55°	3083.2	3105.3	3105.3	3105.3	3072.3	3072.3	3072.3
57.5°	2557.3	2563.0	2551.9	2557.3	2551.9	2518.6	2513.1
60°	2075.9	2075.9	2070.2	2075.9	2059.3	2042.6	2042.6
62.5°	1621.8	1633.0	1655.1	1633.0	1621.8	1633.0	1616.3
65°	1212.4	1234.5	1228.8	1239.9	1234.5	1234.5	1223.3
67.5°	913.4	918.9	924.4	930.1	930.1	930.1	930.1
70°	669.9	686.5	680.8	680.8	680.8	680.8	714.1
72.5°	448.4	470.5	465.0	476.0	476.0	487.1	476.0
75°	304.4	326.5	315.6	332.2	326.5	315.6	343.1
77.5°	204.8	216.0	221.5	226.9	221.5	216.0	221.5
80°	144.0	154.9	149.5	154.9	154.9	154.9	160.6
82.5°	88.6	105.3	99.6	105.3	99.6	105.3	105.3
85°	60.8	66.5	55.4	66.5	60.8	60.8	72.0
87.5°	38.7	33.3	33.3	38.7	33.3	38.7	33.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)