

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: P249054

Luminaire Tested: **LD8B200D010 ER8B200940 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249054
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 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 4000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19062.0 lumens
Efficiency: N/A
Efficacy: 85.4 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

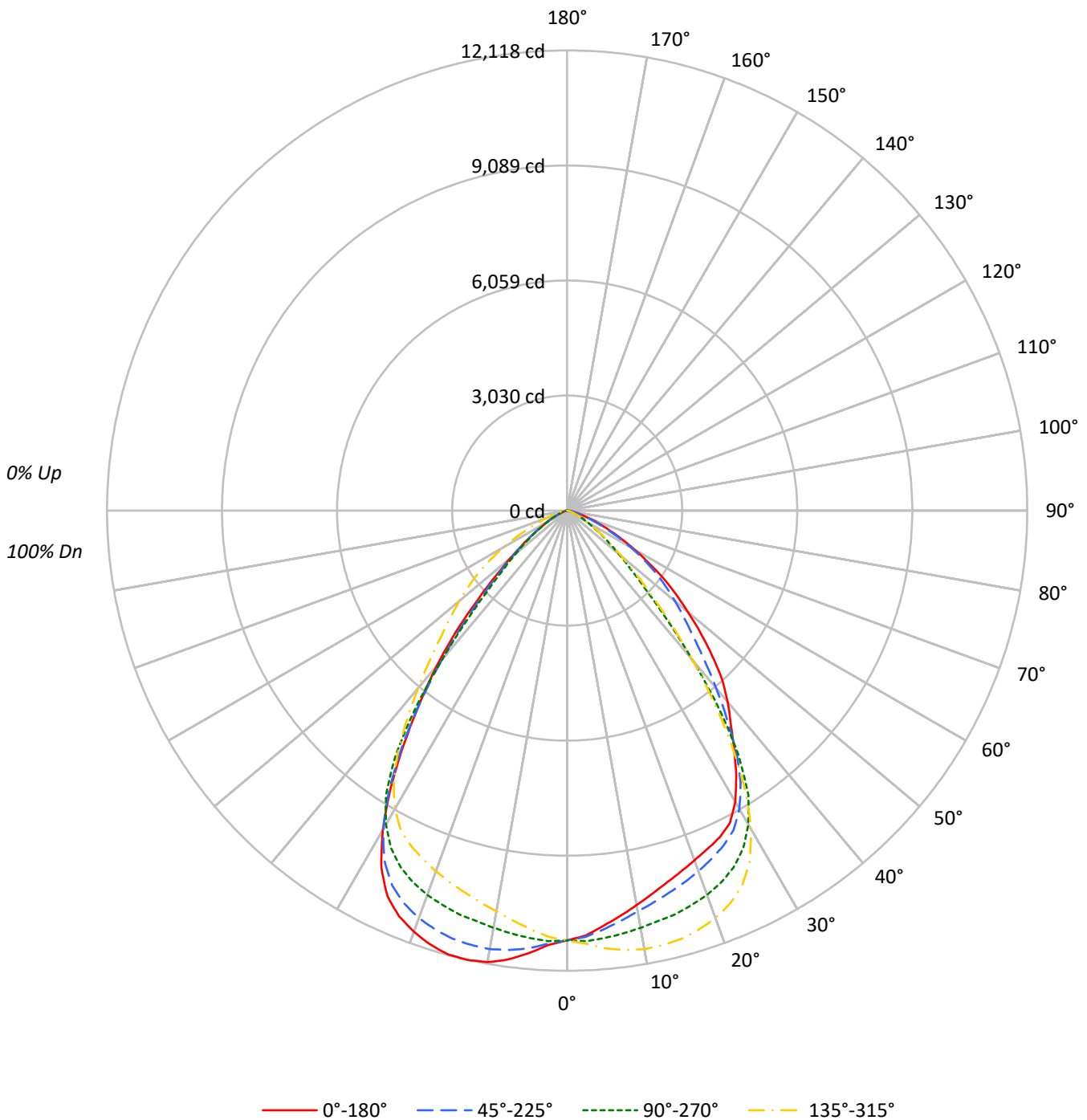
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	348959	348959	348959	348959
5°	339690	349778	362268	349778
10°	330292	349323	378042	349323
15°	323694	351395	386320	351395
20°	321492	353405	387313	353405
25°	323181	352694	381087	352694
30°	315191	339784	345891	339784
35°	288302	296410	281228	296410
40°	264690	206189	215314	206189
45°	235188	125786	145545	125786
50°	199068	84024	93312	84024
55°	164876	57337	60600	57337
60°	125750	38169	38502	38169
65°	89097	23779	21773	23779
70°	64266	15931	14453	15931
75°	40806	7911	6589	7911
80°	28466	5896	4883	5896
85°	25439	0	1946	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1077.1	5.7
10°-20°	3119.1	16.4
20°-30°	4723.0	24.8
30°-40°	4733.6	24.8
40°-50°	2972.5	15.6
50°-60°	1584.0	8.3
60°-70°	651.4	3.4
70°-80°	172.1	0.9
80°-90°	29.1	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°	8919.3	46.8
0°-40°	13652.9	71.6
0°-60°	18209.4	95.5
0°-90°	19062.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19062.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	11316	11316	11316	11316	11316	
5°	10974	11300	11703	11300	10974	###
15°	10140	11007	12101	11007	10140	2868
25°	9499	10366	11200	10366	9499	4356
35°	7659	7874	7471	7874	7659	4798
45°	5393	2884	3338	2884	5393	4148
55°	3067	1066	1127	1066	3067	2734
65°	1221	326	298	326	1221	1267
75°	342	66	55	66	342	388
85°	72	0	6	0	72	79
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°	11316.5	11316.5	11316.5	11316.5	11316.5	11316.5	11316.5	11316.5	11316.5	11316.5	11316.5
2.5°	11200.5	11189.4	11183.9	11195.1	11200.5	11222.6	11217.1	11228.0	11228.0	11233.7	11244.6
5°	10974.0	10968.3	10974.0	10974.0	10996.0	11018.1	11012.6	11029.2	11040.2	11067.9	11078.8
7.5°	10764.1	10764.1	10758.4	10780.4	10791.6	10824.8	10819.1	10846.8	10863.4	10891.0	10929.6
10°	10548.4	10548.4	10553.9	10570.5	10576.2	10625.8	10625.8	10664.4	10686.5	10714.2	10764.1
12.5°	10338.5	10338.5	10371.7	10360.6	10382.6	10421.3	10437.9	10476.6	10509.8	10565.0	10614.9
15°	10139.5	10139.5	10150.6	10178.2	10194.8	10244.6	10272.1	10316.5	10355.1	10410.4	10482.3
17.5°	9968.2	9962.8	9968.2	10001.4	10034.7	10078.8	10100.8	10156.1	10194.8	10266.6	10333.1
20°	9797.0	9808.1	9808.1	9835.6	9857.7	9913.0	9935.0	9996.0	10040.1	10106.3	10183.9
22.5°	9647.8	9642.3	9642.3	9681.0	9697.6	9747.2	9769.2	9824.5	9874.3	9929.6	10001.4
25°	9498.6	9487.4	9509.7	9515.2	9526.1	9581.4	9598.0	9636.6	9686.4	9736.3	9808.1
27.5°	9277.5	9266.6	9272.0	9294.1	9310.7	9354.8	9366.0	9404.6	9443.3	9487.4	9548.4
30°	8852.0	8841.0	8835.6	8874.3	8890.9	8923.8	8940.4	9006.9	9017.8	9067.6	9111.7
32.5°	8288.4	8282.9	8294.1	8327.0	8343.6	8388.0	8410.0	8448.7	8476.2	8504.0	8548.1
35°	7658.6	7647.4	7658.6	7691.8	7691.8	7730.5	7747.1	7763.4	7758.0	7763.4	7752.5
37.5°	7072.9	7067.2	7072.9	7089.3	7072.9	7089.3	7072.9	7039.7	6979.0	6912.6	6846.2
40°	6575.5	6581.0	6548.0	6570.1	6509.1	6498.2	6437.5	6354.4	6233.0	6100.4	5912.5
42.5°	6045.1	6028.5	6006.5	6017.4	5967.8	5928.9	5829.5	5724.7	5569.8	5348.9	5122.2
45°	5393.1	5387.6	5376.5	5371.0	5337.8	5299.1	5216.1	5094.7	4923.4	4696.9	4426.0
47.5°	4757.6	4741.0	4741.0	4746.4	4707.8	4702.3	4635.9	4531.1	4381.9	4160.8	3879.0
50°	4149.6	4144.2	4155.3	4177.4	4149.6	4138.7	4094.6	4022.7	3890.1	3702.3	3436.8
52.5°	3602.6	3597.2	3608.3	3635.9	3624.7	3635.9	3591.7	3536.5	3448.0	3265.6	3033.6
55°	3066.8	3066.8	3066.8	3099.8	3099.8	3099.8	3077.7	3044.7	2961.7	2829.1	2613.7
57.5°	2508.7	2514.1	2547.3	2552.8	2547.3	2558.5	2552.8	2519.6	2464.5	2370.6	2204.8
60°	2039.0	2039.0	2055.6	2072.2	2066.5	2072.2	2072.2	2055.6	2000.3	1923.0	1790.4
62.5°	1613.5	1630.1	1618.9	1630.1	1652.1	1630.1	1618.9	1608.0	1569.3	1519.5	1409.0
65°	1221.1	1232.3	1232.3	1237.7	1226.6	1232.3	1210.2	1193.6	1171.5	1116.3	1044.4
67.5°	928.4	928.4	928.4	928.4	922.7	917.3	911.8	895.2	856.5	834.5	756.9
70°	712.8	679.6	679.6	679.6	679.6	685.3	668.7	646.6	635.5	596.8	541.5
72.5°	475.1	486.3	475.1	475.1	464.2	469.7	447.6	436.5	425.5	403.5	370.3
75°	342.5	315.0	325.9	331.6	315.0	325.9	303.9	281.8	281.8	265.2	248.6
77.5°	221.1	215.6	221.1	226.5	221.1	215.6	204.5	193.3	193.3	187.9	171.3
80°	160.3	154.7	154.7	154.7	149.2	154.7	143.7	143.7	132.6	127.1	116.0
82.5°	105.1	105.1	99.4	105.1	99.4	105.1	88.5	88.5	88.5	82.8	71.9
85°	71.9	60.7	60.7	66.4	55.3	66.4	60.7	55.3	49.8	49.8	44.1
87.5°	33.2	38.7	33.2	38.7	33.2	33.2	38.7	33.2	33.2	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	11316.5	11316.5	11316.5	11316.5	11316.5	11316.5	11316.5	11316.5	11316.5	11316.5	11316.5
2.5°	11261.2	11266.7	11266.7	11289.0	11299.9	11305.4	11305.4	11349.7	11333.1	11344.3	11355.2
5°	11101.1	11134.1	11145.2	11145.2	11206.0	11228.0	11250.1	11299.9	11305.4	11338.6	11377.2
7.5°	10946.2	10984.9	11007.2	11056.8	11095.4	11134.1	11200.5	11233.7	11266.7	11311.0	11360.6
10°	10797.0	10841.4	10885.5	10924.2	10984.9	11034.7	11078.8	11156.2	11195.1	11255.8	11322.0
12.5°	10653.5	10714.2	10752.9	10819.1	10885.5	10929.6	10996.0	11067.9	11128.6	11189.4	11266.7
15°	10526.4	10598.3	10642.4	10714.2	10786.1	10846.8	10918.7	11007.2	11051.3	11123.2	11195.1
17.5°	10388.1	10465.7	10520.9	10587.1	10675.6	10741.8	10802.7	10891.0	10946.2	11023.6	11106.6
20°	10244.6	10321.9	10388.1	10454.5	10543.0	10609.2	10681.0	10769.5	10830.2	10907.6	10974.0
22.5°	10073.3	10145.2	10216.8	10294.2	10382.6	10437.9	10520.9	10598.3	10664.4	10736.3	10802.7
25°	9852.2	9940.7	9996.0	10067.6	10139.5	10200.2	10288.7	10366.0	10421.3	10487.7	10548.4
27.5°	9592.5	9658.9	9703.0	9763.8	9835.6	9890.9	9957.1	10034.7	10089.9	10150.6	10194.8
30°	9150.4	9211.3	9250.0	9294.1	9366.0	9415.8	9471.1	9542.7	9581.4	9625.7	9664.4
32.5°	8570.2	8620.0	8642.0	8675.2	8725.1	8774.6	8819.0	8879.7	8896.3	8923.8	8923.8
35°	7730.5	7741.4	7735.9	7747.1	7769.1	7796.6	7835.3	7874.0	7896.0	7896.0	7879.7
37.5°	6746.8	6680.6	6608.7	6553.5	6536.9	6525.7	6548.0	6564.4	6586.7	6597.6	6570.1
40°	5724.7	5575.5	5415.1	5271.4	5172.0	5127.9	5111.3	5122.2	5122.2	5160.8	5160.8
42.5°	4846.1	4613.8	4376.4	4160.8	4017.0	3906.7	3856.9	3856.9	3862.4	3890.1	3906.7
45°	4116.7	3823.7	3547.4	3309.9	3110.9	2967.2	2901.0	2884.4	2878.9	2889.9	2928.5
47.5°	3558.5	3254.7	2967.2	2674.5	2464.5	2320.8	2260.1	2237.8	2215.7	2237.8	2243.5
50°	3122.1	2807.1	2503.2	2210.3	1989.2	1862.1	1784.7	1751.5	1746.1	1746.1	1757.2
52.5°	2724.0	2431.3	2127.5	1829.1	1596.9	1475.4	1403.5	1386.9	1364.9	1386.9	1386.9
55°	2348.3	2055.6	1757.2	1475.4	1281.9	1154.9	1088.5	1066.5	1055.3	1071.9	1071.9
57.5°	1939.6	1690.8	1414.7	1160.4	967.1	878.6	828.8	801.3	795.6	806.7	795.6
60°	1591.4	1381.5	1143.8	911.8	762.6	668.7	630.0	618.9	607.7	618.9	618.9
62.5°	1259.8	1083.1	889.5	712.8	585.7	519.5	475.1	475.1	469.7	469.7	475.1
65°	933.9	795.6	657.5	508.3	408.9	359.1	325.9	325.9	320.5	325.9	320.5
67.5°	679.6	585.7	475.1	370.3	292.9	265.2	243.1	226.5	237.7	226.5	221.1
70°	497.4	419.9	342.5	281.8	226.5	199.0	182.4	176.7	165.8	165.8	165.8
72.5°	331.6	281.8	232.0	182.4	149.2	121.5	116.0	105.1	93.9	99.4	110.5
75°	221.1	187.9	165.8	132.6	99.4	99.4	66.4	66.4	55.3	66.4	49.8
77.5°	154.7	127.1	99.4	82.8	66.4	60.7	44.1	44.1	38.7	38.7	38.7
80°	110.5	93.9	71.9	60.7	44.1	44.1	38.7	33.2	27.5	27.5	33.2
82.5°	66.4	49.8	49.8	44.1	27.5	22.1	16.6	22.1	11.1	11.1	11.1
85°	38.7	33.2	27.5	16.6	11.1	11.1	5.5	0.0	5.5	5.5	0.0
87.5°	22.1	11.1	11.1	5.5	0.0	5.5	5.5	0.0	0.0	0.0	11.1
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°	11316.5	11316.5	11316.5	11316.5	11316.5	11316.5	11316.5	11316.5	11316.5	11316.5	11316.5
2.5°	11382.9	11377.2	11388.4	11388.4	11421.6	11415.9	11432.5	11432.5	11421.6	11427.0	11449.1
5°	11421.6	11438.2	11471.2	11498.9	11548.5	11570.8	11598.3	11626.1	11631.5	11648.1	11664.7
7.5°	11421.6	11476.9	11515.5	11565.1	11631.5	11670.2	11730.9	11780.7	11802.8	11830.3	11863.5
10°	11399.3	11454.6	11526.4	11581.7	11664.7	11725.4	11786.2	11863.5	11896.7	11940.8	11985.2
12.5°	11355.2	11415.9	11493.2	11565.1	11659.0	11714.3	11791.6	11863.5	11913.3	11974.0	12023.8
15°	11289.0	11360.6	11432.5	11504.4	11603.8	11670.2	11742.0	11824.8	11874.6	11940.8	11985.2
17.5°	11183.9	11261.2	11327.7	11393.8	11487.8	11565.1	11631.5	11708.8	11758.6	11813.9	11874.6
20°	11056.8	11128.6	11200.5	11255.8	11349.7	11415.9	11487.8	11559.6	11598.3	11609.4	11703.4
22.5°	10896.7	10946.2	11001.5	11090.0	11145.2	11206.0	11272.4	11338.6	11377.2	11438.2	11471.2
25°	10631.2	10681.0	10741.8	10780.4	10846.8	10896.7	10962.8	11034.7	11056.8	11101.1	11134.1
27.5°	10261.2	10288.7	10316.5	10349.4	10388.1	10415.8	10454.5	10487.7	10509.8	10531.8	10553.9
30°	9675.3	9675.3	9675.3	9653.2	9669.8	9686.4	9691.9	9686.4	9686.4	9681.0	9681.0
32.5°	8901.8	8857.7	8807.8	8763.7	8747.1	8725.1	8713.9	8697.3	8669.8	8653.2	8658.6
35°	7857.4	7758.0	7697.3	7642.0	7597.9	7564.7	7548.1	7531.4	7526.0	7503.9	7481.6
37.5°	6553.5	6481.6	6437.5	6404.3	6365.6	6332.4	6337.8	6343.5	6359.9	6349.0	6354.4
40°	5172.0	5155.4	5172.0	5133.3	5122.2	5133.3	5160.8	5199.7	5221.8	5243.9	5282.5
42.5°	3934.3	3961.8	4000.7	4000.7	4017.0	4039.3	4072.3	4133.3	4166.2	4204.9	4249.3
45°	2961.7	2994.9	3044.7	3061.1	3072.3	3099.8	3138.7	3188.3	3210.3	3243.5	3282.2
47.5°	2282.1	2304.2	2331.7	2359.5	2387.0	2398.1	2436.8	2436.8	2464.5	2486.6	2497.5
50°	1779.3	1801.3	1823.4	1840.0	1851.1	1867.7	1878.7	1895.3	1900.7	1911.9	1917.3
52.5°	1392.4	1420.1	1420.1	1431.1	1447.7	1464.3	1458.8	1464.3	1469.7	1469.7	1486.3
55°	1088.5	1088.5	1105.1	1105.1	1116.3	1110.6	1116.3	1116.3	1116.3	1116.3	1121.7
57.5°	812.2	817.9	834.5	823.3	817.9	828.8	817.9	828.8	823.3	834.5	817.9
60°	624.3	624.3	630.0	630.0	635.5	635.5	635.5	630.0	630.0	624.3	624.3
62.5°	469.7	475.1	480.8	475.1	475.1	475.1	469.7	469.7	464.2	458.5	458.5
65°	315.0	309.5	320.5	309.5	315.0	315.0	309.5	315.0	298.4	303.9	298.4
67.5°	226.5	221.1	215.6	221.1	215.6	209.9	209.9	215.6	221.1	204.5	204.5
70°	149.2	154.7	149.2	154.7	160.3	160.3	154.7	149.2	154.7	143.7	149.2
72.5°	93.9	93.9	93.9	93.9	93.9	99.4	99.4	99.4	88.5	88.5	82.8
75°	44.1	60.7	49.8	44.1	60.7	60.7	55.3	55.3	49.8	49.8	49.8
77.5°	44.1	33.2	33.2	33.2	33.2	33.2	33.2	33.2	27.5	33.2	27.5
80°	22.1	22.1	22.1	16.6	22.1	22.1	27.5	22.1	22.1	16.6	27.5
82.5°	11.1	11.1	11.1	0.0	5.5	11.1	11.1	5.5	11.1	11.1	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: P249054

CATALOG NUMBER: LD8B200D010 ER8B200940 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	11316.5	11316.5	11316.5	11316.5	11316.5	11316.5	11316.5	11316.5	11316.5	11316.5	11316.5
2.5°	11443.6	11438.2	11443.6	11449.1	11443.6	11438.2	11443.6	11449.1	11427.0	11421.6	11432.5
5°	11686.8	11686.8	11697.7	11703.4	11697.7	11686.8	11686.8	11664.7	11648.1	11631.5	11626.1
7.5°	11896.7	11907.8	11918.8	11924.2	11918.8	11907.8	11896.7	11863.5	11830.3	11802.8	11780.7
10°	12023.8	12040.4	12062.5	12073.4	12062.5	12040.4	12023.8	11985.2	11940.8	11896.7	11863.5
12.5°	12079.1	12095.7	12123.2	12117.8	12123.2	12095.7	12079.1	12023.8	11974.0	11913.3	11863.5
15°	12040.4	12062.5	12090.0	12101.2	12090.0	12062.5	12040.4	11985.2	11940.8	11874.6	11824.8
17.5°	11918.8	11952.0	11968.6	11985.2	11968.6	11952.0	11918.8	11874.6	11813.9	11758.6	11708.8
20°	11753.0	11775.3	11797.3	11802.8	11797.3	11775.3	11753.0	11703.4	11609.4	11598.3	11559.6
22.5°	11515.5	11532.1	11581.7	11565.1	11581.7	11532.1	11515.5	11471.2	11438.2	11377.2	11338.6
25°	11172.8	11189.4	11195.1	11200.5	11195.1	11189.4	11172.8	11134.1	11101.1	11056.8	11034.7
27.5°	10581.6	10581.6	10592.6	10598.3	10592.6	10581.6	10581.6	10553.9	10531.8	10509.8	10487.7
30°	9686.4	9686.4	9686.4	9714.2	9686.4	9686.4	9686.4	9681.0	9681.0	9686.4	9686.4
32.5°	8653.2	8642.0	8631.1	8642.0	8631.1	8642.0	8653.2	8658.6	8653.2	8669.8	8697.3
35°	7481.6	7476.2	7492.8	7470.7	7492.8	7476.2	7481.6	7481.6	7503.9	7526.0	7531.4
37.5°	6359.9	6349.0	6371.0	6349.0	6371.0	6349.0	6359.9	6354.4	6349.0	6359.9	6343.5
40°	5293.7	5304.6	5304.6	5348.9	5304.6	5304.6	5293.7	5282.5	5243.9	5221.8	5199.7
42.5°	4271.3	4304.5	4293.4	4326.6	4293.4	4304.5	4271.3	4249.3	4204.9	4166.2	4133.3
45°	3304.2	3326.5	3326.5	3337.5	3326.5	3326.5	3304.2	3282.2	3243.5	3210.3	3188.3
47.5°	2536.2	2536.2	2536.2	2541.9	2536.2	2536.2	2536.2	2497.5	2486.6	2464.5	2436.8
50°	1928.5	1933.9	1939.6	1945.1	1939.6	1933.9	1928.5	1917.3	1911.9	1900.7	1895.3
52.5°	1480.9	1486.3	1475.4	1486.3	1475.4	1486.3	1480.9	1486.3	1469.7	1469.7	1464.3
55°	1121.7	1116.3	1121.7	1127.2	1121.7	1116.3	1121.7	1121.7	1116.3	1116.3	1116.3
57.5°	823.3	812.2	812.2	812.2	812.2	812.2	823.3	817.9	834.5	823.3	828.8
60°	613.4	618.9	618.9	624.3	618.9	618.9	613.4	624.3	624.3	630.0	630.0
62.5°	453.1	469.7	458.5	469.7	458.5	469.7	453.1	458.5	458.5	464.2	469.7
65°	292.9	292.9	292.9	298.4	292.9	292.9	292.9	298.4	303.9	298.4	315.0
67.5°	199.0	204.5	215.6	209.9	215.6	204.5	199.0	204.5	204.5	221.1	215.6
70°	160.3	143.7	143.7	160.3	143.7	143.7	160.3	149.2	143.7	154.7	149.2
72.5°	93.9	82.8	93.9	93.9	93.9	82.8	93.9	82.8	88.5	88.5	99.4
75°	49.8	44.1	38.7	55.3	38.7	44.1	49.8	49.8	49.8	49.8	55.3
77.5°	33.2	27.5	38.7	38.7	38.7	27.5	33.2	27.5	33.2	27.5	33.2
80°	16.6	22.1	16.6	27.5	16.6	22.1	16.6	27.5	16.6	22.1	22.1
82.5°	5.5	11.1	11.1	11.1	11.1	11.1	5.5	5.5	11.1	11.1	5.5
85°	0.0	11.1	5.5	5.5	5.5	11.1	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: P249054

CATALOG NUMBER: LD8B200D010 ER8B200940 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	11316.5	11316.5	11316.5	11316.5	11316.5	11316.5	11316.5	11316.5	11316.5	11316.5	11316.5
2.5°	11432.5	11415.9	11421.6	11388.4	11388.4	11377.2	11382.9	11355.2	11344.3	11333.1	11349.7
5°	11598.3	11570.8	11548.5	11498.9	11471.2	11438.2	11421.6	11377.2	11338.6	11305.4	11299.9
7.5°	11730.9	11670.2	11631.5	11565.1	11515.5	11476.9	11421.6	11360.6	11311.0	11266.7	11233.7
10°	11786.2	11725.4	11664.7	11581.7	11526.4	11454.6	11399.3	11322.0	11255.8	11195.1	11156.2
12.5°	11791.6	11714.3	11659.0	11565.1	11493.2	11415.9	11355.2	11266.7	11189.4	11128.6	11067.9
15°	11742.0	11670.2	11603.8	11504.4	11432.5	11360.6	11289.0	11195.1	11123.2	11051.3	11007.2
17.5°	11631.5	11565.1	11487.8	11393.8	11327.7	11261.2	11183.9	11106.6	11023.6	10946.2	10891.0
20°	11487.8	11415.9	11349.7	11255.8	11200.5	11128.6	11056.8	10974.0	10907.6	10830.2	10769.5
22.5°	11272.4	11206.0	11145.2	11090.0	11001.5	10946.2	10896.7	10802.7	10736.3	10664.4	10598.3
25°	10962.8	10896.7	10846.8	10780.4	10741.8	10681.0	10631.2	10548.4	10487.7	10421.3	10366.0
27.5°	10454.5	10415.8	10388.1	10349.4	10316.5	10288.7	10261.2	10194.8	10150.6	10089.9	10034.7
30°	9691.9	9686.4	9669.8	9653.2	9675.3	9675.3	9675.3	9664.4	9625.7	9581.4	9542.7
32.5°	8713.9	8725.1	8747.1	8763.7	8807.8	8857.7	8901.8	8923.8	8923.8	8896.3	8879.7
35°	7548.1	7564.7	7597.9	7642.0	7697.3	7758.0	7857.4	7879.7	7896.0	7896.0	7874.0
37.5°	6337.8	6332.4	6365.6	6404.3	6437.5	6481.6	6553.5	6570.1	6597.6	6586.7	6564.4
40°	5160.8	5133.3	5122.2	5133.3	5172.0	5155.4	5172.0	5160.8	5160.8	5122.2	5122.2
42.5°	4072.3	4039.3	4017.0	4000.7	4000.7	3961.8	3934.3	3906.7	3890.1	3862.4	3856.9
45°	3138.7	3099.8	3072.3	3061.1	3044.7	2994.9	2961.7	2928.5	2889.9	2878.9	2884.4
47.5°	2436.8	2398.1	2387.0	2359.5	2331.7	2304.2	2282.1	2243.5	2237.8	2215.7	2237.8
50°	1878.7	1867.7	1851.1	1840.0	1823.4	1801.3	1779.3	1757.2	1746.1	1746.1	1751.5
52.5°	1458.8	1464.3	1447.7	1431.1	1420.1	1420.1	1392.4	1386.9	1386.9	1364.9	1386.9
55°	1116.3	1110.6	1116.3	1105.1	1105.1	1088.5	1088.5	1071.9	1071.9	1055.3	1066.5
57.5°	817.9	828.8	817.9	823.3	834.5	817.9	812.2	795.6	806.7	795.6	801.3
60°	635.5	635.5	635.5	630.0	630.0	624.3	624.3	618.9	618.9	607.7	618.9
62.5°	469.7	475.1	475.1	475.1	480.8	475.1	469.7	475.1	469.7	469.7	475.1
65°	309.5	315.0	315.0	309.5	320.5	309.5	315.0	320.5	325.9	320.5	325.9
67.5°	209.9	209.9	215.6	221.1	215.6	221.1	226.5	221.1	226.5	237.7	226.5
70°	154.7	160.3	160.3	154.7	149.2	154.7	149.2	165.8	165.8	165.8	176.7
72.5°	99.4	99.4	93.9	93.9	93.9	93.9	93.9	110.5	99.4	93.9	105.1
75°	55.3	60.7	60.7	44.1	49.8	60.7	44.1	49.8	66.4	55.3	66.4
77.5°	33.2	33.2	33.2	33.2	33.2	33.2	44.1	38.7	38.7	38.7	44.1
80°	27.5	22.1	22.1	16.6	22.1	22.1	22.1	33.2	27.5	27.5	33.2
82.5°	11.1	11.1	5.5	0.0	11.1	11.1	11.1	11.1	11.1	11.1	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	11.1	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: P249054

CATALOG NUMBER: LD8B200D010 ER8B200940 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	11316.5	11316.5	11316.5	11316.5	11316.5	11316.5	11316.5	11316.5	11316.5	11316.5	11316.5
2.5°	11305.4	11305.4	11299.9	11289.0	11266.7	11266.7	11261.2	11244.6	11233.7	11228.0	11228.0
5°	11250.1	11228.0	11206.0	11145.2	11145.2	11134.1	11101.1	11078.8	11067.9	11040.2	11029.2
7.5°	11200.5	11134.1	11095.4	11056.8	11007.2	10984.9	10946.2	10929.6	10891.0	10863.4	10846.8
10°	11078.8	11034.7	10984.9	10924.2	10885.5	10841.4	10797.0	10764.1	10714.2	10686.5	10664.4
12.5°	10996.0	10929.6	10885.5	10819.1	10752.9	10714.2	10653.5	10614.9	10565.0	10509.8	10476.6
15°	10918.7	10846.8	10786.1	10714.2	10642.4	10598.3	10526.4	10482.3	10410.4	10355.1	10316.5
17.5°	10802.7	10741.8	10675.6	10587.1	10520.9	10465.7	10388.1	10333.1	10266.6	10194.8	10156.1
20°	10681.0	10609.2	10543.0	10454.5	10388.1	10321.9	10244.6	10183.9	10106.3	10040.1	9996.0
22.5°	10520.9	10437.9	10382.6	10294.2	10216.8	10145.2	10073.3	10001.4	9929.6	9874.3	9824.5
25°	10288.7	10200.2	10139.5	10067.6	9996.0	9940.7	9852.2	9808.1	9736.3	9686.4	9636.6
27.5°	9957.1	9890.9	9835.6	9763.8	9703.0	9658.9	9592.5	9548.4	9487.4	9443.3	9404.6
30°	9471.1	9415.8	9366.0	9294.1	9250.0	9211.3	9150.4	9111.7	9067.6	9017.8	9006.9
32.5°	8819.0	8774.6	8725.1	8675.2	8642.0	8620.0	8570.2	8548.1	8504.0	8476.2	8448.7
35°	7835.3	7796.6	7769.1	7747.1	7735.9	7741.4	7730.5	7752.5	7763.4	7758.0	7763.4
37.5°	6548.0	6525.7	6536.9	6553.5	6608.7	6680.6	6746.8	6846.2	6912.6	6979.0	7039.7
40°	5111.3	5127.9	5172.0	5271.4	5415.1	5575.5	5724.7	5912.5	6100.4	6233.0	6354.4
42.5°	3856.9	3906.7	4017.0	4160.8	4376.4	4613.8	4846.1	5122.2	5348.9	5569.8	5724.7
45°	2901.0	2967.2	3110.9	3309.9	3547.4	3823.7	4116.7	4426.0	4696.9	4923.4	5094.7
47.5°	2260.1	2320.8	2464.5	2674.5	2967.2	3254.7	3558.5	3879.0	4160.8	4381.9	4531.1
50°	1784.7	1862.1	1989.2	2210.3	2503.2	2807.1	3122.1	3436.8	3702.3	3890.1	4022.7
52.5°	1403.5	1475.4	1596.9	1829.1	2127.5	2431.3	2724.0	3033.6	3265.6	3448.0	3536.5
55°	1088.5	1154.9	1281.9	1475.4	1757.2	2055.6	2348.3	2613.7	2829.1	2961.7	3044.7
57.5°	828.8	878.6	967.1	1160.4	1414.7	1690.8	1939.6	2204.8	2370.6	2464.5	2519.6
60°	630.0	668.7	762.6	911.8	1143.8	1381.5	1591.4	1790.4	1923.0	2000.3	2055.6
62.5°	475.1	519.5	585.7	712.8	889.5	1083.1	1259.8	1409.0	1519.5	1569.3	1608.0
65°	325.9	359.1	408.9	508.3	657.5	795.6	933.9	1044.4	1116.3	1171.5	1193.6
67.5°	243.1	265.2	292.9	370.3	475.1	585.7	679.6	756.9	834.5	856.5	895.2
70°	182.4	199.0	226.5	281.8	342.5	419.9	497.4	541.5	596.8	635.5	646.6
72.5°	116.0	121.5	149.2	182.4	232.0	281.8	331.6	370.3	403.5	425.5	436.5
75°	66.4	99.4	99.4	132.6	165.8	187.9	221.1	248.6	265.2	281.8	281.8
77.5°	44.1	60.7	66.4	82.8	99.4	127.1	154.7	171.3	187.9	193.3	193.3
80°	38.7	44.1	44.1	60.7	71.9	93.9	110.5	116.0	127.1	132.6	143.7
82.5°	16.6	22.1	27.5	44.1	49.8	49.8	66.4	71.9	82.8	88.5	88.5
85°	5.5	11.1	11.1	16.6	27.5	33.2	38.7	44.1	49.8	49.8	55.3
87.5°	5.5	5.5	0.0	5.5	11.1	11.1	22.1	22.1	22.1	33.2	33.2
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: P249054

CATALOG NUMBER: LD8B200D010 ER8B200940 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	11316.5	11316.5	11316.5	11316.5	11316.5	11316.5	11316.5
2.5°	11217.1	11222.6	11200.5	11195.1	11183.9	11189.4	11200.5
5°	11012.6	11018.1	10996.0	10974.0	10974.0	10968.3	10974.0
7.5°	10819.1	10824.8	10791.6	10780.4	10758.4	10764.1	10764.1
10°	10625.8	10625.8	10576.2	10570.5	10553.9	10548.4	10548.4
12.5°	10437.9	10421.3	10382.6	10360.6	10371.7	10338.5	10338.5
15°	10272.1	10244.6	10194.8	10178.2	10150.6	10139.5	10139.5
17.5°	10100.8	10078.8	10034.7	10001.4	9968.2	9962.8	9968.2
20°	9935.0	9913.0	9857.7	9835.6	9808.1	9808.1	9797.0
22.5°	9769.2	9747.2	9697.6	9681.0	9642.3	9642.3	9647.8
25°	9598.0	9581.4	9526.1	9515.2	9509.7	9487.4	9498.6
27.5°	9366.0	9354.8	9310.7	9294.1	9272.0	9266.6	9277.5
30°	8940.4	8923.8	8890.9	8874.3	8835.6	8841.0	8852.0
32.5°	8410.0	8388.0	8343.6	8327.0	8294.1	8282.9	8288.4
35°	7747.1	7730.5	7691.8	7691.8	7658.6	7647.4	7658.6
37.5°	7072.9	7089.3	7072.9	7089.3	7072.9	7067.2	7072.9
40°	6437.5	6498.2	6509.1	6570.1	6548.0	6581.0	6575.5
42.5°	5829.5	5928.9	5967.8	6017.4	6006.5	6028.5	6045.1
45°	5216.1	5299.1	5337.8	5371.0	5376.5	5387.6	5393.1
47.5°	4635.9	4702.3	4707.8	4746.4	4741.0	4741.0	4757.6
50°	4094.6	4138.7	4149.6	4177.4	4155.3	4144.2	4149.6
52.5°	3591.7	3635.9	3624.7	3635.9	3608.3	3597.2	3602.6
55°	3077.7	3099.8	3099.8	3099.8	3066.8	3066.8	3066.8
57.5°	2552.8	2558.5	2547.3	2552.8	2547.3	2514.1	2508.7
60°	2072.2	2072.2	2066.5	2072.2	2055.6	2039.0	2039.0
62.5°	1618.9	1630.1	1652.1	1630.1	1618.9	1630.1	1613.5
65°	1210.2	1232.3	1226.6	1237.7	1232.3	1232.3	1221.1
67.5°	911.8	917.3	922.7	928.4	928.4	928.4	928.4
70°	668.7	685.3	679.6	679.6	679.6	679.6	712.8
72.5°	447.6	469.7	464.2	475.1	475.1	486.3	475.1
75°	303.9	325.9	315.0	331.6	325.9	315.0	342.5
77.5°	204.5	215.6	221.1	226.5	221.1	215.6	221.1
80°	143.7	154.7	149.2	154.7	154.7	154.7	160.3
82.5°	88.5	105.1	99.4	105.1	99.4	105.1	105.1
85°	60.7	66.4	55.3	66.4	60.7	60.7	71.9
87.5°	38.7	33.2	33.2	38.7	33.2	38.7	33.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)