

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: P248649

Luminaire Tested: **LD8B200D010 ER8B200930 8LBSW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248649
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 ER8B200930 8LBSW0H
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17860.9 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

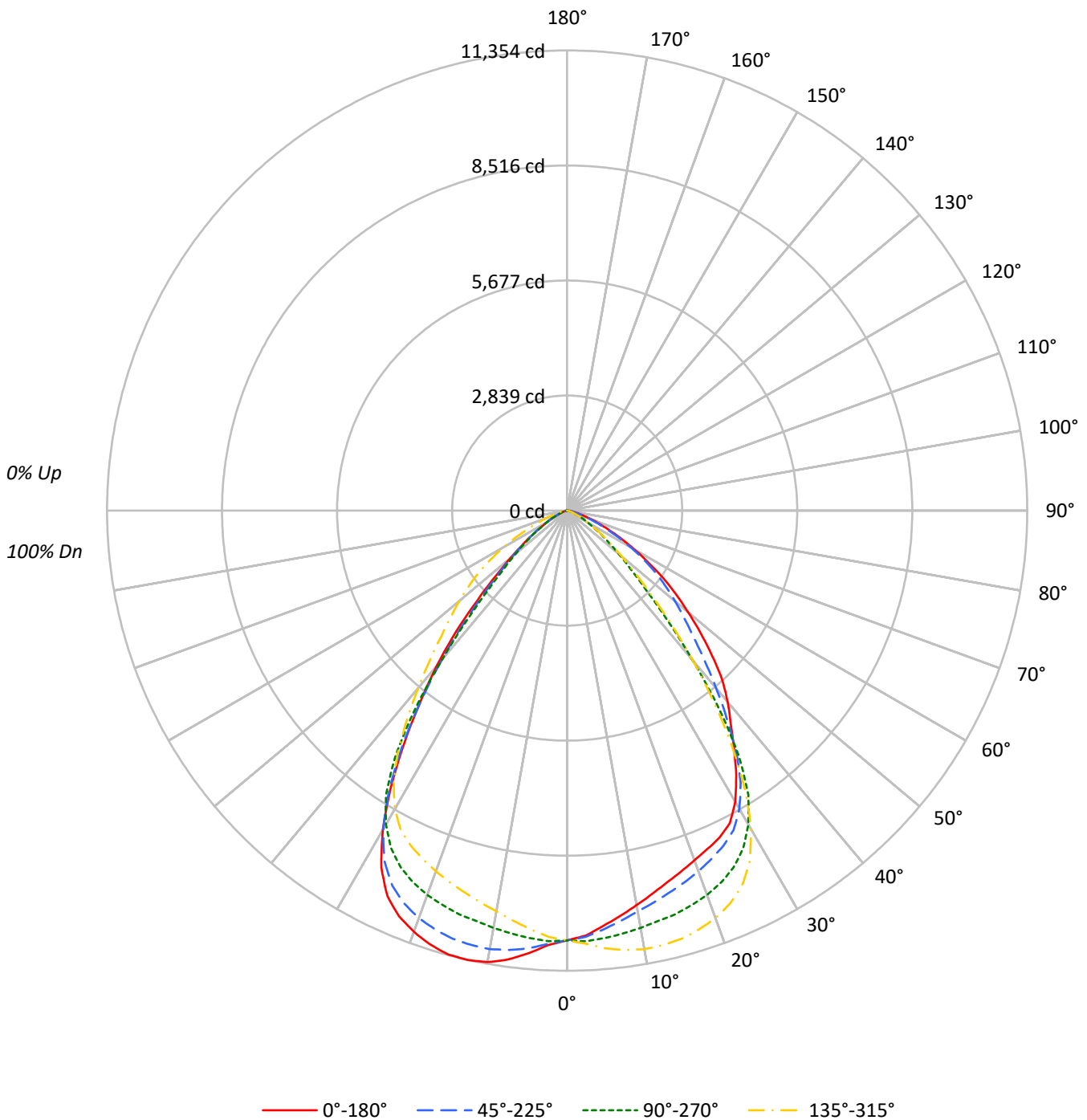
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	Luminaire represents a point source (luminous area is zero).			
5°	No luminance values can be calculated.			
10°				
15°				
20°				
25°				
30°				
35°				
40°				
45°				
50°				
55°				
60°				
65°				
70°				
75°				
80°				
85°				



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1009.3	5.7
10°-20°	2922.6	16.4
20°-30°	4425.4	24.8
30°-40°	4435.4	24.8
40°-50°	2785.2	15.6
50°-60°	1484.2	8.3
60°-70°	610.3	3.4
70°-80°	161.2	0.9
80°-90°	27.3	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°	8357.3	46.8
0°-40°	12792.6	71.6
0°-60°	17062.0	95.5
0°-90°	17860.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17860.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	10603	10603	10603	10603	10603	
5°	10282	10588	10966	10588	10282	970
15°	9501	10314	11339	10314	9501	2687
25°	8900	9713	10495	9713	8900	4082
35°	7176	7378	7000	7378	7176	4496
45°	5053	2703	3127	2703	5053	3886
55°	2874	999	1056	999	2874	2562
65°	1144	305	280	305	1144	1187
75°	321	62	52	62	321	364
85°	67	0	5	0	67	74
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°	10603.4	10603.4	10603.4	10603.4	10603.4	10603.4	10603.4	10603.4	10603.4	10603.4	10603.4
2.5°	10494.8	10484.3	10479.2	10489.6	10494.8	10515.4	10510.3	10520.6	10520.6	10525.9	10536.1
5°	10282.5	10277.2	10282.5	10282.5	10303.2	10323.8	10318.7	10334.3	10344.5	10370.5	10380.8
7.5°	10085.7	10085.7	10080.5	10101.1	10111.6	10142.7	10137.4	10163.3	10178.9	10204.7	10240.9
10°	9883.7	9883.7	9888.9	9904.5	9909.8	9956.3	9956.3	9992.5	10013.1	10039.1	10085.7
12.5°	9687.1	9687.1	9718.2	9707.7	9728.4	9764.7	9780.2	9816.5	9847.5	9899.3	9946.0
15°	9500.6	9500.6	9511.0	9536.8	9552.4	9599.0	9624.9	9666.4	9702.6	9754.4	9821.8
17.5°	9340.2	9335.0	9340.2	9371.2	9402.4	9443.8	9464.4	9516.2	9552.4	9619.7	9682.0
20°	9179.6	9190.1	9190.1	9215.9	9236.6	9288.4	9309.0	9366.2	9407.4	9469.5	9542.2
22.5°	9039.9	9034.7	9034.7	9071.0	9086.5	9133.0	9153.6	9205.4	9252.2	9304.0	9371.2
25°	8900.1	8889.6	8910.5	8915.6	8925.9	8977.6	8993.2	9029.4	9076.1	9122.8	9190.1
27.5°	8692.9	8682.7	8687.9	8708.5	8724.1	8765.4	8775.9	8812.1	8848.3	8889.6	8946.7
30°	8294.2	8284.0	8278.8	8315.1	8330.6	8361.5	8377.1	8439.3	8449.5	8496.2	8537.5
32.5°	7766.1	7761.0	7771.4	7802.4	7817.9	7859.4	7880.2	7916.4	7942.2	7968.2	8009.4
35°	7176.0	7165.5	7176.0	7207.1	7207.1	7243.3	7258.9	7274.3	7269.1	7274.3	7264.1
37.5°	6627.2	6622.0	6627.2	6642.6	6627.2	6642.6	6627.2	6596.2	6539.2	6477.0	6414.8
40°	6161.2	6166.3	6135.5	6156.1	6098.9	6088.7	6031.9	5954.1	5840.3	5716.0	5540.0
42.5°	5664.2	5648.7	5628.0	5638.2	5591.8	5555.3	5462.2	5364.0	5218.8	5011.9	4799.4
45°	5053.2	5048.1	5037.7	5032.6	5001.5	4965.2	4887.4	4773.7	4613.1	4400.9	4147.1
47.5°	4457.8	4442.3	4442.3	4447.3	4411.1	4406.0	4343.8	4245.6	4105.8	3898.6	3634.6
50°	3888.2	3883.0	3893.5	3914.2	3888.2	3878.0	3836.6	3769.3	3645.0	3468.9	3220.3
52.5°	3375.7	3370.5	3380.9	3406.7	3396.3	3406.7	3365.5	3313.7	3230.7	3059.8	2842.4
55°	2873.6	2873.6	2873.6	2904.5	2904.5	2904.5	2883.8	2852.8	2775.1	2650.8	2449.0
57.5°	2350.6	2355.7	2386.8	2392.0	2386.8	2397.3	2392.0	2360.8	2309.3	2221.3	2065.9
60°	1910.5	1910.5	1926.1	1941.7	1936.3	1941.7	1941.7	1926.1	1874.3	1801.8	1677.6
62.5°	1511.8	1527.4	1516.9	1527.4	1548.0	1527.4	1516.9	1506.6	1470.4	1423.8	1320.2
65°	1144.2	1154.6	1154.6	1159.8	1149.2	1154.6	1134.0	1118.4	1097.7	1045.9	978.6
67.5°	869.9	869.9	869.9	869.9	864.6	859.5	854.3	838.8	802.5	781.9	709.3
70°	667.9	636.7	636.7	636.7	636.7	642.1	626.5	605.9	595.5	559.2	507.4
72.5°	445.1	455.6	445.1	445.1	434.9	440.1	419.4	408.9	398.7	378.0	346.9
75°	320.9	295.2	305.4	310.7	295.2	305.4	284.7	264.0	264.0	248.5	232.9
77.5°	207.2	202.0	207.2	212.2	207.2	202.0	191.6	181.2	181.2	176.0	160.4
80°	150.2	144.9	144.9	144.9	139.8	144.9	134.6	134.6	124.2	119.2	108.7
82.5°	98.4	98.4	93.2	98.4	93.2	98.4	83.0	83.0	83.0	77.6	67.4
85°	67.4	56.9	56.9	62.2	51.8	62.2	56.9	51.8	46.6	46.6	41.4
87.5°	31.2	36.2	31.2	36.2	31.2	31.2	36.2	31.2	31.2	20.6	20.6
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°	10603.4	10603.4	10603.4	10603.4	10603.4	10603.4	10603.4	10603.4	10603.4	10603.4	10603.4
2.5°	10551.6	10556.8	10556.8	10577.6	10587.8	10593.0	10593.0	10634.6	10619.0	10629.4	10639.6
5°	10401.6	10432.6	10443.0	10443.0	10499.8	10520.6	10541.2	10587.8	10593.0	10624.2	10660.4
7.5°	10256.5	10292.7	10313.6	10360.1	10396.3	10432.6	10494.8	10525.9	10556.8	10598.4	10644.8
10°	10116.7	10158.3	10199.6	10235.9	10292.7	10339.4	10380.8	10453.2	10489.6	10546.6	10608.6
12.5°	9982.3	10039.1	10075.3	10137.4	10199.6	10240.9	10303.2	10370.5	10427.4	10484.3	10556.8
15°	9863.1	9930.5	9971.7	10039.1	10106.5	10163.3	10230.7	10313.6	10355.0	10422.3	10489.6
17.5°	9733.5	9806.2	9858.0	9920.0	10002.9	10064.9	10122.1	10204.7	10256.5	10329.0	10406.7
20°	9599.0	9671.5	9733.5	9795.7	9878.7	9940.7	10008.1	10090.9	10147.9	10220.3	10282.5
22.5°	9438.6	9506.0	9573.1	9645.5	9728.4	9780.2	9858.0	9930.5	9992.5	10059.9	10122.1
25°	9231.4	9314.4	9366.2	9433.2	9500.6	9557.5	9640.4	9712.9	9764.7	9826.9	9883.7
27.5°	8988.1	9050.3	9091.6	9148.6	9215.9	9267.6	9329.7	9402.4	9454.2	9511.0	9552.4
30°	8573.7	8630.9	8667.1	8708.5	8775.9	8822.5	8874.3	8941.4	8977.6	9019.2	9055.4
32.5°	8030.2	8076.8	8097.5	8128.6	8175.2	8221.8	8263.3	8320.2	8335.8	8361.5	8361.5
35°	7243.3	7253.5	7248.5	7258.9	7279.5	7305.3	7341.7	7377.9	7398.5	7398.5	7383.1
37.5°	6321.7	6259.7	6192.3	6140.5	6124.9	6114.5	6135.5	6150.7	6171.7	6181.9	6156.1
40°	5364.0	5224.2	5073.9	4939.2	4846.1	4804.7	4789.2	4799.4	4799.4	4835.7	4835.7
42.5°	4540.7	4323.1	4100.6	3898.6	3764.0	3660.6	3613.9	3613.9	3619.0	3645.0	3660.6
45°	3857.2	3582.8	3323.9	3101.4	2914.9	2780.2	2718.2	2702.6	2697.6	2707.8	2744.0
47.5°	3334.3	3049.6	2780.2	2506.0	2309.3	2174.5	2117.7	2096.8	2076.1	2096.8	2102.1
50°	2925.4	2630.2	2345.5	2071.0	1863.9	1744.7	1672.3	1641.1	1636.0	1636.0	1646.5
52.5°	2552.4	2278.1	1993.5	1713.8	1496.2	1382.4	1315.0	1299.6	1278.8	1299.6	1299.6
55°	2200.3	1926.1	1646.5	1382.4	1201.0	1082.2	1019.9	999.3	988.8	1004.4	1004.4
57.5°	1817.4	1584.2	1325.6	1087.3	906.1	823.3	776.5	750.7	745.5	755.9	745.5
60°	1491.2	1294.4	1071.7	854.3	714.5	626.5	590.3	579.9	569.5	579.9	579.9
62.5°	1180.4	1014.8	833.5	667.9	548.7	486.7	445.1	445.1	440.1	440.1	445.1
65°	875.1	745.5	616.1	476.3	383.2	336.5	305.4	305.4	300.3	305.4	300.3
67.5°	636.7	548.7	445.1	346.9	274.5	248.5	227.8	212.2	222.7	212.2	207.2
70°	466.1	393.4	320.9	264.0	212.2	186.4	171.0	165.6	155.4	155.4	155.4
72.5°	310.7	264.0	217.4	171.0	139.8	113.8	108.7	98.4	88.0	93.2	103.6
75°	207.2	176.0	155.4	124.2	93.2	93.2	62.2	62.2	51.8	62.2	46.6
77.5°	144.9	119.2	93.2	77.6	62.2	56.9	41.4	41.4	36.2	36.2	36.2
80°	103.6	88.0	67.4	56.9	41.4	41.4	36.2	31.2	25.8	25.8	31.2
82.5°	62.2	46.6	46.6	41.4	25.8	20.6	15.6	20.6	10.4	10.4	10.4
85°	36.2	31.2	25.8	15.6	10.4	10.4	5.2	0.0	5.2	5.2	0.0
87.5°	20.6	10.4	10.4	5.2	0.0	5.2	5.2	0.0	0.0	0.0	10.4
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	10603.4	10603.4	10603.4	10603.4	10603.4	10603.4	10603.4	10603.4	10603.4	10603.4	10603.4
2.5°	10665.6	10660.4	10670.8	10670.8	10701.9	10696.6	10712.2	10712.2	10701.9	10707.0	10727.6
5°	10701.9	10717.4	10748.4	10774.4	10820.8	10841.8	10867.5	10893.5	10898.6	10914.2	10929.8
7.5°	10701.9	10753.6	10790.0	10836.4	10898.6	10934.8	10991.7	11038.4	11059.1	11084.9	11115.9
10°	10681.0	10732.8	10800.2	10852.0	10929.8	10986.6	11043.5	11115.9	11147.1	11188.5	11230.0
12.5°	10639.6	10696.6	10769.0	10836.4	10924.4	10976.2	11048.6	11115.9	11162.7	11219.5	11266.2
15°	10577.6	10644.8	10712.2	10779.4	10872.6	10934.8	11002.2	11079.7	11126.4	11188.5	11230.0
17.5°	10479.2	10551.6	10613.9	10676.0	10764.0	10836.4	10898.6	10971.1	11017.7	11069.5	11126.4
20°	10360.1	10427.4	10494.8	10546.6	10634.6	10696.6	10764.0	10831.2	10867.5	10878.0	10966.0
22.5°	10210.1	10256.5	10308.3	10391.2	10443.0	10499.8	10562.1	10624.2	10660.4	10717.4	10748.4
25°	9961.3	10008.1	10064.9	10101.1	10163.3	10210.1	10272.1	10339.4	10360.1	10401.6	10432.6
27.5°	9614.6	9640.4	9666.4	9697.3	9733.5	9759.5	9795.7	9826.9	9847.5	9868.3	9888.9
30°	9065.6	9065.6	9065.6	9045.0	9060.5	9076.1	9081.2	9076.1	9076.1	9071.0	9071.0
32.5°	8340.9	8299.5	8252.8	8211.5	8196.0	8175.2	8164.8	8149.3	8123.6	8108.0	8113.0
35°	7362.3	7269.1	7212.3	7160.5	7119.1	7088.0	7072.5	7056.9	7051.8	7031.1	7010.2
37.5°	6140.5	6073.1	6031.9	6000.7	5964.5	5933.3	5938.5	5943.8	5959.1	5948.9	5954.1
40°	4846.1	4830.5	4846.1	4809.9	4799.4	4809.9	4835.7	4872.1	4892.7	4913.5	4949.7
42.5°	3686.4	3712.2	3748.6	3748.6	3764.0	3784.8	3815.7	3872.8	3903.8	3940.0	3981.6
45°	2775.1	2806.2	2852.8	2868.2	2878.7	2904.5	2940.9	2987.4	3008.0	3039.1	3075.4
47.5°	2138.3	2159.0	2184.8	2210.8	2236.6	2247.0	2283.3	2283.3	2309.3	2329.9	2340.2
50°	1667.2	1687.8	1708.5	1724.1	1734.5	1750.1	1760.3	1775.9	1780.9	1791.4	1796.5
52.5°	1304.6	1330.6	1330.6	1340.8	1356.4	1372.0	1366.8	1372.0	1377.1	1377.1	1392.6
55°	1019.9	1019.9	1035.5	1035.5	1045.9	1040.6	1045.9	1045.9	1045.9	1045.9	1051.0
57.5°	761.0	766.3	781.9	771.5	766.3	776.5	766.3	776.5	771.5	781.9	766.3
60°	584.9	584.9	590.3	590.3	595.5	595.5	595.5	590.3	590.3	584.9	584.9
62.5°	440.1	445.1	450.5	445.1	445.1	445.1	440.1	440.1	434.9	429.7	429.7
65°	295.2	290.0	300.3	290.0	295.2	295.2	290.0	295.2	279.6	284.7	279.6
67.5°	212.2	207.2	202.0	207.2	202.0	196.7	196.7	202.0	207.2	191.6	191.6
70°	139.8	144.9	139.8	144.9	150.2	150.2	144.9	139.8	144.9	134.6	139.8
72.5°	88.0	88.0	88.0	88.0	88.0	93.2	93.2	93.2	83.0	83.0	77.6
75°	41.4	56.9	46.6	41.4	56.9	56.9	51.8	51.8	46.6	46.6	46.6
77.5°	41.4	31.2	31.2	31.2	31.2	31.2	31.2	31.2	25.8	31.2	25.8
80°	20.6	20.6	20.6	15.6	20.6	20.6	25.8	20.6	20.6	15.6	25.8
82.5°	10.4	10.4	10.4	0.0	5.2	10.4	10.4	5.2	10.4	10.4	5.2
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: P248649

CATALOG NUMBER: LD8B200D010 ER8B200930 8LBSW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	10603.4	10603.4	10603.4	10603.4	10603.4	10603.4	10603.4	10603.4	10603.4	10603.4	10603.4
2.5°	10722.6	10717.4	10722.6	10727.6	10722.6	10717.4	10722.6	10727.6	10707.0	10701.9	10712.2
5°	10950.4	10950.4	10960.6	10966.0	10960.6	10950.4	10950.4	10929.8	10914.2	10898.6	10893.5
7.5°	11147.1	11157.5	11167.7	11172.9	11167.7	11157.5	11147.1	11115.9	11084.9	11059.1	11038.4
10°	11266.2	11281.7	11302.5	11312.7	11302.5	11281.7	11266.2	11230.0	11188.5	11147.1	11115.9
12.5°	11318.0	11333.5	11359.3	11354.3	11359.3	11333.5	11318.0	11266.2	11219.5	11162.7	11115.9
15°	11281.7	11302.5	11328.3	11338.7	11328.3	11302.5	11281.7	11230.0	11188.5	11126.4	11079.7
17.5°	11167.7	11198.9	11214.5	11230.0	11214.5	11198.9	11167.7	11126.4	11069.5	11017.7	10971.1
20°	11012.4	11033.3	11054.0	11059.1	11054.0	11033.3	11012.4	10966.0	10878.0	10867.5	10831.2
22.5°	10790.0	10805.4	10852.0	10836.4	10852.0	10805.4	10790.0	10748.4	10717.4	10660.4	10624.2
25°	10468.8	10484.3	10489.6	10494.8	10489.6	10484.3	10468.8	10432.6	10401.6	10360.1	10339.4
27.5°	9914.9	9914.9	9925.1	9930.5	9925.1	9914.9	9914.9	9888.9	9868.3	9847.5	9826.9
30°	9076.1	9076.1	9076.1	9102.1	9076.1	9076.1	9076.1	9071.0	9071.0	9076.1	9076.1
32.5°	8108.0	8097.5	8087.2	8097.5	8087.2	8097.5	8108.0	8113.0	8108.0	8123.6	8149.3
35°	7010.2	7005.1	7020.7	7000.0	7020.7	7005.1	7010.2	7010.2	7031.1	7051.8	7056.9
37.5°	5959.1	5948.9	5969.7	5948.9	5969.7	5948.9	5959.1	5954.1	5948.9	5959.1	5943.8
40°	4960.1	4970.3	4970.3	5011.9	4970.3	4970.3	4960.1	4949.7	4913.5	4892.7	4872.1
42.5°	4002.2	4033.2	4022.8	4054.0	4022.8	4033.2	4002.2	3981.6	3940.0	3903.8	3872.8
45°	3096.1	3116.9	3116.9	3127.1	3116.9	3116.9	3096.1	3075.4	3039.1	3008.0	2987.4
47.5°	2376.4	2376.4	2376.4	2381.7	2376.4	2376.4	2376.4	2340.2	2329.9	2309.3	2283.3
50°	1806.9	1812.1	1817.4	1822.5	1817.4	1812.1	1806.9	1796.5	1791.4	1780.9	1775.9
52.5°	1387.6	1392.6	1382.4	1392.6	1382.4	1392.6	1387.6	1392.6	1377.1	1377.1	1372.0
55°	1051.0	1045.9	1051.0	1056.2	1051.0	1045.9	1051.0	1051.0	1045.9	1045.9	1045.9
57.5°	771.5	761.0	761.0	761.0	761.0	761.0	771.5	766.3	781.9	771.5	776.5
60°	574.7	579.9	579.9	584.9	579.9	579.9	574.7	584.9	584.9	590.3	590.3
62.5°	424.5	440.1	429.7	440.1	429.7	440.1	424.5	429.7	429.7	434.9	440.1
65°	274.5	274.5	274.5	279.6	274.5	274.5	274.5	279.6	284.7	279.6	295.2
67.5°	186.4	191.6	202.0	196.7	202.0	191.6	186.4	191.6	191.6	207.2	202.0
70°	150.2	134.6	134.6	150.2	134.6	134.6	150.2	139.8	134.6	144.9	139.8
72.5°	88.0	77.6	88.0	88.0	88.0	77.6	88.0	77.6	83.0	83.0	93.2
75°	46.6	41.4	36.2	51.8	36.2	41.4	46.6	46.6	46.6	46.6	51.8
77.5°	31.2	25.8	36.2	36.2	36.2	25.8	31.2	25.8	31.2	25.8	31.2
80°	15.6	20.6	15.6	25.8	15.6	20.6	15.6	25.8	15.6	20.6	20.6
82.5°	5.2	10.4	10.4	10.4	10.4	10.4	5.2	5.2	10.4	10.4	5.2
85°	0.0	10.4	5.2	5.2	5.2	10.4	0.0	0.0	0.0	0.0	0.0
87.5°	5.2	0.0	0.0	5.2	0.0	0.0	5.2	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: P248649

CATALOG NUMBER: LD8B200D010 ER8B200930 8LBSW0H

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	10603.4	10603.4	10603.4	10603.4	10603.4	10603.4	10603.4	10603.4	10603.4	10603.4	10603.4
2.5°	10712.2	10696.6	10701.9	10670.8	10670.8	10660.4	10665.6	10639.6	10629.4	10619.0	10634.6
5°	10867.5	10841.8	10820.8	10774.4	10748.4	10717.4	10701.9	10660.4	10624.2	10593.0	10587.8
7.5°	10991.7	10934.8	10898.6	10836.4	10790.0	10753.6	10701.9	10644.8	10598.4	10556.8	10525.9
10°	11043.5	10986.6	10929.8	10852.0	10800.2	10732.8	10681.0	10608.6	10546.6	10489.6	10453.2
12.5°	11048.6	10976.2	10924.4	10836.4	10769.0	10696.6	10639.6	10556.8	10484.3	10427.4	10370.5
15°	11002.2	10934.8	10872.6	10779.4	10712.2	10644.8	10577.6	10489.6	10422.3	10355.0	10313.6
17.5°	10898.6	10836.4	10764.0	10676.0	10613.9	10551.6	10479.2	10406.7	10329.0	10256.5	10204.7
20°	10764.0	10696.6	10634.6	10546.6	10494.8	10427.4	10360.1	10282.5	10220.3	10147.9	10090.9
22.5°	10562.1	10499.8	10443.0	10391.2	10308.3	10256.5	10210.1	10122.1	10059.9	9992.5	9930.5
25°	10272.1	10210.1	10163.3	10101.1	10064.9	10008.1	9961.3	9883.7	9826.9	9764.7	9712.9
27.5°	9795.7	9759.5	9733.5	9697.3	9666.4	9640.4	9614.6	9552.4	9511.0	9454.2	9402.4
30°	9081.2	9076.1	9060.5	9045.0	9065.6	9065.6	9065.6	9055.4	9019.2	8977.6	8941.4
32.5°	8164.8	8175.2	8196.0	8211.5	8252.8	8299.5	8340.9	8361.5	8361.5	8335.8	8320.2
35°	7072.5	7088.0	7119.1	7160.5	7212.3	7269.1	7362.3	7383.1	7398.5	7398.5	7377.9
37.5°	5938.5	5933.3	5964.5	6000.7	6031.9	6073.1	6140.5	6156.1	6181.9	6171.7	6150.7
40°	4835.7	4809.9	4799.4	4809.9	4846.1	4830.5	4846.1	4835.7	4835.7	4799.4	4799.4
42.5°	3815.7	3784.8	3764.0	3748.6	3748.6	3712.2	3686.4	3660.6	3645.0	3619.0	3613.9
45°	2940.9	2904.5	2878.7	2868.2	2852.8	2806.2	2775.1	2744.0	2707.8	2697.6	2702.6
47.5°	2283.3	2247.0	2236.6	2210.8	2184.8	2159.0	2138.3	2102.1	2096.8	2076.1	2096.8
50°	1760.3	1750.1	1734.5	1724.1	1708.5	1687.8	1667.2	1646.5	1636.0	1636.0	1641.1
52.5°	1366.8	1372.0	1356.4	1340.8	1330.6	1330.6	1304.6	1299.6	1299.6	1278.8	1299.6
55°	1045.9	1040.6	1045.9	1035.5	1035.5	1019.9	1019.9	1004.4	1004.4	988.8	999.3
57.5°	766.3	776.5	766.3	771.5	781.9	766.3	761.0	745.5	755.9	745.5	750.7
60°	595.5	595.5	595.5	590.3	590.3	584.9	584.9	579.9	579.9	569.5	579.9
62.5°	440.1	445.1	445.1	445.1	450.5	445.1	440.1	445.1	440.1	440.1	445.1
65°	290.0	295.2	295.2	290.0	300.3	290.0	295.2	300.3	305.4	300.3	305.4
67.5°	196.7	196.7	202.0	207.2	202.0	207.2	212.2	207.2	212.2	222.7	212.2
70°	144.9	150.2	150.2	144.9	139.8	144.9	139.8	155.4	155.4	155.4	165.6
72.5°	93.2	93.2	88.0	88.0	88.0	88.0	88.0	103.6	93.2	88.0	98.4
75°	51.8	56.9	56.9	41.4	46.6	56.9	41.4	46.6	62.2	51.8	62.2
77.5°	31.2	31.2	31.2	31.2	31.2	31.2	41.4	36.2	36.2	36.2	41.4
80°	25.8	20.6	20.6	15.6	20.6	20.6	20.6	31.2	25.8	25.8	31.2
82.5°	10.4	10.4	5.2	0.0	10.4	10.4	10.4	10.4	10.4	10.4	20.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	5.2	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.4	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: P248649

CATALOG NUMBER: LD8B200D010 ER8B200930 8LBSW0H

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	10603.4	10603.4	10603.4	10603.4	10603.4	10603.4	10603.4	10603.4	10603.4	10603.4	10603.4
2.5°	10593.0	10593.0	10587.8	10577.6	10556.8	10556.8	10551.6	10536.1	10525.9	10520.6	10520.6
5°	10541.2	10520.6	10499.8	10443.0	10443.0	10432.6	10401.6	10380.8	10370.5	10344.5	10334.3
7.5°	10494.8	10432.6	10396.3	10360.1	10313.6	10292.7	10256.5	10240.9	10204.7	10178.9	10163.3
10°	10380.8	10339.4	10292.7	10235.9	10199.6	10158.3	10116.7	10085.7	10039.1	10013.1	9992.5
12.5°	10303.2	10240.9	10199.6	10137.4	10075.3	10039.1	9982.3	9946.0	9899.3	9847.5	9816.5
15°	10230.7	10163.3	10106.5	10039.1	9971.7	9930.5	9863.1	9821.8	9754.4	9702.6	9666.4
17.5°	10122.1	10064.9	10002.9	9920.0	9858.0	9806.2	9733.5	9682.0	9619.7	9552.4	9516.2
20°	10008.1	9940.7	9878.7	9795.7	9733.5	9671.5	9599.0	9542.2	9469.5	9407.4	9366.2
22.5°	9858.0	9780.2	9728.4	9645.5	9573.1	9506.0	9438.6	9371.2	9304.0	9252.2	9205.4
25°	9640.4	9557.5	9500.6	9433.2	9366.2	9314.4	9231.4	9190.1	9122.8	9076.1	9029.4
27.5°	9329.7	9267.6	9215.9	9148.6	9091.6	9050.3	8988.1	8946.7	8889.6	8848.3	8812.1
30°	8874.3	8822.5	8775.9	8708.5	8667.1	8630.9	8573.7	8537.5	8496.2	8449.5	8439.3
32.5°	8263.3	8221.8	8175.2	8128.6	8097.5	8076.8	8030.2	8009.4	7968.2	7942.2	7916.4
35°	7341.7	7305.3	7279.5	7258.9	7248.5	7253.5	7243.3	7264.1	7274.3	7269.1	7274.3
37.5°	6135.5	6114.5	6124.9	6140.5	6192.3	6259.7	6321.7	6414.8	6477.0	6539.2	6596.2
40°	4789.2	4804.7	4846.1	4939.2	5073.9	5224.2	5364.0	5540.0	5716.0	5840.3	5954.1
42.5°	3613.9	3660.6	3764.0	3898.6	4100.6	4323.1	4540.7	4799.4	5011.9	5218.8	5364.0
45°	2718.2	2780.2	2914.9	3101.4	3323.9	3582.8	3857.2	4147.1	4400.9	4613.1	4773.7
47.5°	2117.7	2174.5	2309.3	2506.0	2780.2	3049.6	3334.3	3634.6	3898.6	4105.8	4245.6
50°	1672.3	1744.7	1863.9	2071.0	2345.5	2630.2	2925.4	3220.3	3468.9	3645.0	3769.3
52.5°	1315.0	1382.4	1496.2	1713.8	1993.5	2278.1	2552.4	2842.4	3059.8	3230.7	3313.7
55°	1019.9	1082.2	1201.0	1382.4	1646.5	1926.1	2200.3	2449.0	2650.8	2775.1	2852.8
57.5°	776.5	823.3	906.1	1087.3	1325.6	1584.2	1817.4	2065.9	2221.3	2309.3	2360.8
60°	590.3	626.5	714.5	854.3	1071.7	1294.4	1491.2	1677.6	1801.8	1874.3	1926.1
62.5°	445.1	486.7	548.7	667.9	833.5	1014.8	1180.4	1320.2	1423.8	1470.4	1506.6
65°	305.4	336.5	383.2	476.3	616.1	745.5	875.1	978.6	1045.9	1097.7	1118.4
67.5°	227.8	248.5	274.5	346.9	445.1	548.7	636.7	709.3	781.9	802.5	838.8
70°	171.0	186.4	212.2	264.0	320.9	393.4	466.1	507.4	559.2	595.5	605.9
72.5°	108.7	113.8	139.8	171.0	217.4	264.0	310.7	346.9	378.0	398.7	408.9
75°	62.2	93.2	93.2	124.2	155.4	176.0	207.2	232.9	248.5	264.0	264.0
77.5°	41.4	56.9	62.2	77.6	93.2	119.2	144.9	160.4	176.0	181.2	181.2
80°	36.2	41.4	41.4	56.9	67.4	88.0	103.6	108.7	119.2	124.2	134.6
82.5°	15.6	20.6	25.8	41.4	46.6	46.6	62.2	67.4	77.6	83.0	83.0
85°	5.2	10.4	10.4	15.6	25.8	31.2	36.2	41.4	46.6	46.6	51.8
87.5°	5.2	5.2	0.0	5.2	10.4	10.4	20.6	20.6	20.6	31.2	31.2
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: P248649

CATALOG NUMBER: LD8B200D010 ER8B200930 8LBSW0H

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	10603.4	10603.4	10603.4	10603.4	10603.4	10603.4	10603.4
2.5°	10510.3	10515.4	10494.8	10489.6	10479.2	10484.3	10494.8
5°	10318.7	10323.8	10303.2	10282.5	10282.5	10277.2	10282.5
7.5°	10137.4	10142.7	10111.6	10101.1	10080.5	10085.7	10085.7
10°	9956.3	9956.3	9909.8	9904.5	9888.9	9883.7	9883.7
12.5°	9780.2	9764.7	9728.4	9707.7	9718.2	9687.1	9687.1
15°	9624.9	9599.0	9552.4	9536.8	9511.0	9500.6	9500.6
17.5°	9464.4	9443.8	9402.4	9371.2	9340.2	9335.0	9340.2
20°	9309.0	9288.4	9236.6	9215.9	9190.1	9190.1	9179.6
22.5°	9153.6	9133.0	9086.5	9071.0	9034.7	9034.7	9039.9
25°	8993.2	8977.6	8925.9	8915.6	8910.5	8889.6	8900.1
27.5°	8775.9	8765.4	8724.1	8708.5	8687.9	8682.7	8692.9
30°	8377.1	8361.5	8330.6	8315.1	8278.8	8284.0	8294.2
32.5°	7880.2	7859.4	7817.9	7802.4	7771.4	7761.0	7766.1
35°	7258.9	7243.3	7207.1	7207.1	7176.0	7165.5	7176.0
37.5°	6627.2	6642.6	6627.2	6642.6	6627.2	6622.0	6627.2
40°	6031.9	6088.7	6098.9	6156.1	6135.5	6166.3	6161.2
42.5°	5462.2	5555.3	5591.8	5638.2	5628.0	5648.7	5664.2
45°	4887.4	4965.2	5001.5	5032.6	5037.7	5048.1	5053.2
47.5°	4343.8	4406.0	4411.1	4447.3	4442.3	4442.3	4457.8
50°	3836.6	3878.0	3888.2	3914.2	3893.5	3883.0	3888.2
52.5°	3365.5	3406.7	3396.3	3406.7	3380.9	3370.5	3375.7
55°	2883.8	2904.5	2904.5	2904.5	2873.6	2873.6	2873.6
57.5°	2392.0	2397.3	2386.8	2392.0	2386.8	2355.7	2350.6
60°	1941.7	1941.7	1936.3	1941.7	1926.1	1910.5	1910.5
62.5°	1516.9	1527.4	1548.0	1527.4	1516.9	1527.4	1511.8
65°	1134.0	1154.6	1149.2	1159.8	1154.6	1154.6	1144.2
67.5°	854.3	859.5	864.6	869.9	869.9	869.9	869.9
70°	626.5	642.1	636.7	636.7	636.7	636.7	667.9
72.5°	419.4	440.1	434.9	445.1	445.1	455.6	445.1
75°	284.7	305.4	295.2	310.7	305.4	295.2	320.9
77.5°	191.6	202.0	207.2	212.2	207.2	202.0	207.2
80°	134.6	144.9	139.8	144.9	144.9	144.9	150.2
82.5°	83.0	98.4	93.2	98.4	93.2	98.4	98.4
85°	56.9	62.2	51.8	62.2	56.9	56.9	67.4
87.5°	36.2	31.2	31.2	36.2	31.2	36.2	31.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)