

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: P248802

Luminaire Tested: **LD8B200D010 ER8B200850 8LBSW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248802
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 ER8B200850 8LBSW0GPH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 5000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20275.0 lumens
Efficiency: N/A
Efficacy: 90.8 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

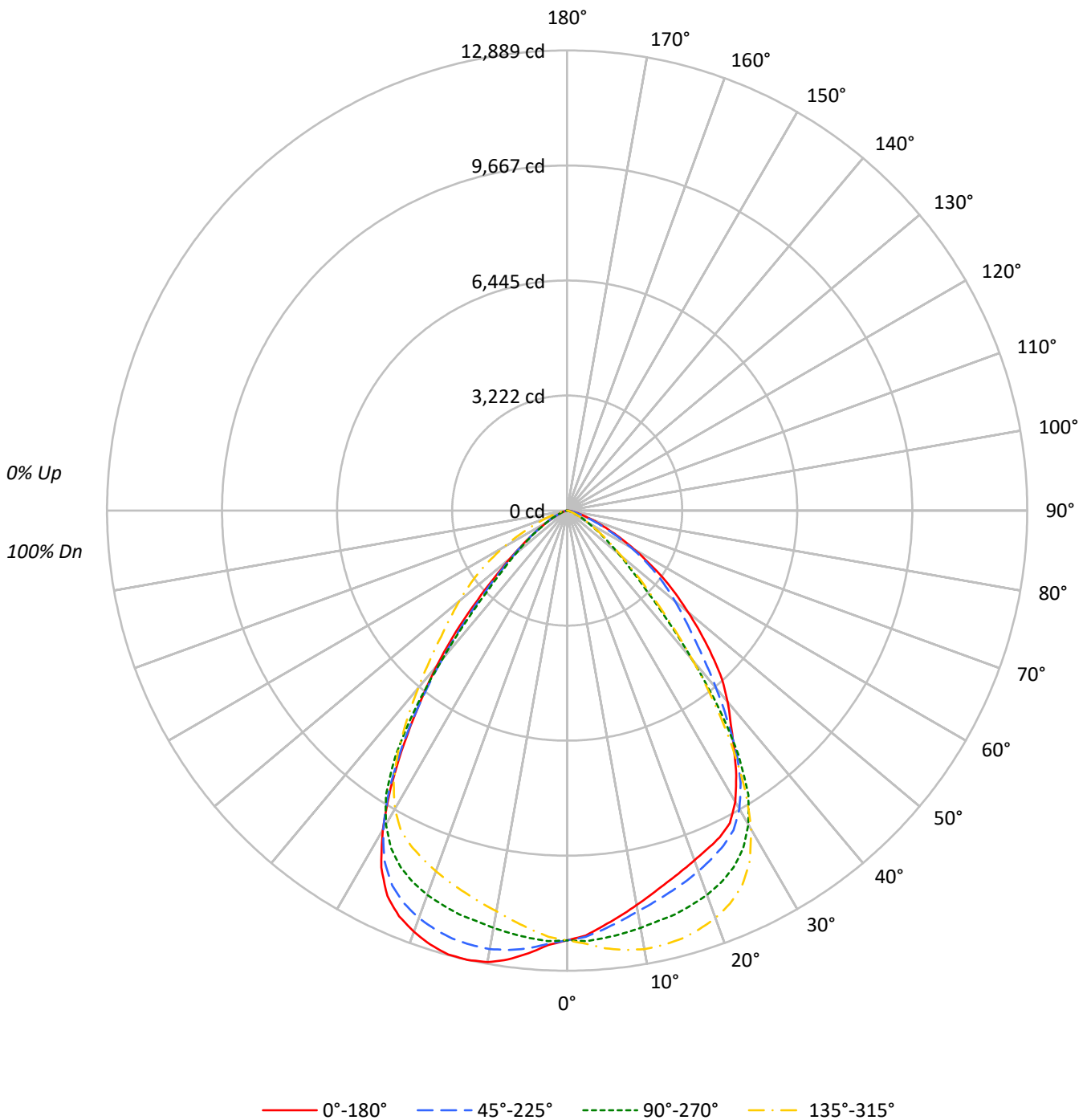
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P248802

CATALOG NUMBER: LD8B200D010 ER8B200850 8LBSW0GPH

Luminous Intensity Polar Plot





TEST NUMBER: P248802

CATALOG NUMBER: LD8B200D010 ER8B200850 8LBSW0GPH

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°	371164	371164	371164	371164
5°	361306	372037	385320	372037
10°	351311	371551	402099	371551
15°	344292	373755	410901	373755
20°	341949	375893	411957	375893
25°	343746	375140	405336	375140
30°	335248	361405	367899	361405
35°	306646	315270	299124	315270
40°	281532	219308	229017	219308
45°	250151	133788	154804	133788
50°	211737	89373	99246	89373
55°	175370	60982	64455	60982
60°	133756	40593	40957	40593
65°	94767	25297	23159	25297
70°	68359	16950	15372	16950
75°	43404	8411	7006	8411
80°	30277	6269	5203	6269
85°	27031	0	2052	0



TEST NUMBER: P248802

CATALOG NUMBER: LD8B200D010 ER8B200850 8LBSW0GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1145.7	5.7
10°-20°	3317.6	16.4
20°-30°	5023.6	24.8
30°-40°	5034.9	24.8
40°-50°	3161.6	15.6
50°-60°	1684.8	8.3
60°-70°	692.8	3.4
70°-80°	183.0	0.9
80°-90°	31.0	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°	9486.9	46.8
0°-40°	14521.7	71.6
0°-60°	19368.2	95.5
0°-90°	20275.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20275.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	12037	12037	12037	12037	12037	
5°	11672	12019	12448	12019	11672	###
15°	10785	11708	12871	11708	10785	3050
25°	10103	11026	11913	11026	10103	4634
35°	8146	8375	7946	8375	8146	5103
45°	5736	3068	3550	3068	5736	4412
55°	3262	1134	1199	1134	3262	2908
65°	1299	347	317	347	1299	1347
75°	364	71	59	71	364	413
85°	76	0	6	0	76	84
90°	0	0	0	0	0	



TEST NUMBER: P248802

CATALOG NUMBER: LD8B200D010 ER8B200850 8LBSW0GPH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	12036.6	12036.6	12036.6	12036.6	12036.6	12036.6	12036.6	12036.6	12036.6	12036.6	12036.6
2.5°	11913.2	11901.4	11895.6	11907.4	11913.2	11936.7	11930.9	11942.5	11942.5	11948.6	11960.2
5°	11672.3	11666.3	11672.3	11672.3	11695.8	11719.2	11713.4	11731.1	11742.7	11772.2	11783.8
7.5°	11449.0	11449.0	11443.0	11466.4	11478.3	11513.6	11507.6	11537.1	11554.7	11584.0	11625.1
10°	11219.7	11219.7	11225.5	11243.2	11249.2	11301.9	11301.9	11343.1	11366.5	11396.0	11449.0
12.5°	10996.4	10996.4	11031.7	11019.9	11043.3	11084.5	11102.1	11143.2	11178.6	11237.3	11290.3
15°	10784.7	10784.7	10796.6	10825.9	10843.5	10896.5	10925.8	10972.9	11014.1	11072.8	11149.3
17.5°	10602.6	10596.8	10602.6	10637.9	10673.2	10720.1	10743.6	10802.4	10843.5	10920.0	10990.6
20°	10420.4	10432.3	10432.3	10461.5	10485.0	10543.8	10567.2	10632.1	10679.0	10749.4	10831.9
22.5°	10261.7	10255.9	10255.9	10297.0	10314.7	10367.4	10390.9	10449.7	10502.7	10561.4	10637.9
25°	10103.0	10091.2	10114.9	10120.7	10132.3	10191.1	10208.7	10249.9	10302.8	10355.8	10432.3
27.5°	9867.9	9856.3	9862.1	9885.5	9903.2	9950.1	9962.0	10003.1	10044.2	10091.2	10156.0
30°	9415.3	9403.6	9397.8	9439.0	9456.6	9491.7	9509.4	9580.0	9591.6	9644.6	9691.5
32.5°	8815.8	8810.0	8821.8	8856.9	8874.6	8921.8	8945.2	8986.3	9015.6	9045.1	9092.1
35°	8145.9	8134.1	8145.9	8181.3	8181.3	8222.4	8240.0	8257.5	8251.7	8257.5	8245.8
37.5°	7523.0	7517.0	7523.0	7540.4	7523.0	7540.4	7523.0	7487.7	7423.1	7352.5	7281.8
40°	6993.9	6999.8	6964.7	6988.1	6923.3	6911.7	6847.1	6758.8	6629.6	6488.6	6288.8
42.5°	6429.8	6412.1	6388.7	6400.3	6347.6	6306.2	6200.5	6089.0	5924.2	5689.3	5448.1
45°	5736.2	5730.4	5718.6	5712.8	5677.5	5636.3	5548.0	5418.9	5236.7	4995.7	4707.6
47.5°	5060.3	5042.7	5042.7	5048.5	5007.4	5001.6	4930.9	4819.4	4660.7	4425.6	4125.8
50°	4413.7	4407.9	4419.8	4443.2	4413.7	4402.1	4355.2	4278.7	4137.7	3937.9	3655.5
52.5°	3831.9	3826.1	3838.0	3867.2	3855.4	3867.2	3820.3	3761.5	3667.4	3473.4	3226.6
55°	3262.0	3262.0	3262.0	3297.0	3297.0	3297.0	3273.6	3238.5	3150.2	3009.2	2780.1
57.5°	2668.3	2674.1	2709.4	2715.2	2709.4	2721.3	2715.2	2679.9	2621.4	2521.5	2345.1
60°	2168.8	2168.8	2186.4	2204.1	2198.0	2204.1	2204.1	2186.4	2127.6	2045.4	1904.3
62.5°	1716.1	1733.8	1721.9	1733.8	1757.3	1733.8	1721.9	1710.3	1669.2	1616.2	1498.7
65°	1298.8	1310.7	1310.7	1316.5	1304.6	1310.7	1287.2	1269.6	1246.1	1187.3	1110.9
67.5°	987.5	987.5	987.5	987.5	981.4	975.6	969.8	952.2	911.0	887.6	805.1
70°	758.2	722.8	722.8	722.8	722.8	728.9	711.2	687.8	675.9	634.8	576.0
72.5°	505.4	517.2	505.4	505.4	493.7	499.6	476.1	464.2	452.6	429.2	393.8
75°	364.3	335.0	346.7	352.7	335.0	346.7	323.2	299.7	299.7	282.1	264.4
77.5°	235.1	229.3	235.1	240.9	235.1	229.3	217.5	205.6	205.6	199.8	182.2
80°	170.5	164.5	164.5	164.5	158.7	164.5	152.9	152.9	141.0	135.2	123.4
82.5°	111.8	111.8	105.7	111.8	105.7	111.8	94.1	94.1	94.1	88.1	76.4
85°	76.4	64.6	64.6	70.6	58.8	70.6	64.6	58.8	53.0	53.0	46.9
87.5°	35.3	41.1	35.3	41.1	35.3	35.3	41.1	35.3	35.3	23.5	23.5
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: P248802

CATALOG NUMBER: LD8B200D010 ER8B200850 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	12036.6	12036.6	12036.6	12036.6	12036.6	12036.6	12036.6	12036.6	12036.6	12036.6	12036.6
2.5°	11977.8	11983.6	11983.6	12007.4	12019.0	12024.8	12024.8	12071.9	12054.3	12066.1	12077.8
5°	11807.5	11842.6	11854.5	11854.5	11919.1	11942.5	11966.0	12019.0	12024.8	12060.1	12101.2
7.5°	11642.8	11683.9	11707.6	11760.4	11801.5	11842.6	11913.2	11948.6	11983.6	12030.8	12083.6
10°	11484.1	11531.3	11578.2	11619.3	11683.9	11736.9	11783.8	11866.1	11907.4	11972.0	12042.4
12.5°	11331.4	11396.0	11437.2	11507.6	11578.2	11625.1	11695.8	11772.2	11836.8	11901.4	11983.6
15°	11196.2	11272.7	11319.6	11396.0	11472.5	11537.1	11613.5	11707.6	11754.6	11831.0	11907.4
17.5°	11049.1	11131.6	11190.4	11260.8	11354.9	11425.3	11490.1	11584.0	11642.8	11725.0	11813.3
20°	10896.5	10978.7	11049.1	11119.8	11213.9	11284.3	11360.7	11454.8	11519.4	11601.7	11672.3
22.5°	10714.3	10790.8	10867.0	10949.2	11043.3	11102.1	11190.4	11272.7	11343.1	11419.5	11490.1
25°	10479.2	10573.3	10632.1	10708.3	10784.7	10849.3	10943.4	11025.7	11084.5	11155.1	11219.7
27.5°	10202.9	10273.6	10320.5	10385.1	10461.5	10520.3	10590.7	10673.2	10732.0	10796.6	10843.5
30°	9732.6	9797.5	9838.6	9885.5	9962.0	10015.0	10073.7	10149.9	10191.1	10238.2	10279.4
32.5°	9115.5	9168.5	9192.0	9227.3	9280.3	9333.0	9380.2	9444.8	9462.4	9491.7	9491.7
35°	8222.4	8234.0	8228.2	8240.0	8263.5	8292.8	8333.9	8375.0	8398.5	8398.5	8381.1
37.5°	7176.1	7105.7	7029.3	6970.5	6952.8	6941.0	6964.7	6982.1	7005.8	7017.4	6988.1
40°	6089.0	5930.3	5759.7	5606.8	5501.1	5454.2	5436.5	5448.1	5448.1	5489.2	5489.2
42.5°	5154.4	4907.4	4654.9	4425.6	4272.7	4155.3	4102.4	4102.4	4108.2	4137.7	4155.3
45°	4378.6	4067.0	3773.1	3520.6	3308.9	3156.0	3085.6	3067.9	3062.1	3073.7	3114.9
47.5°	3785.0	3461.8	3156.0	2844.7	2621.4	2468.5	2403.9	2380.2	2356.7	2380.2	2386.2
50°	3320.7	2985.7	2662.5	2350.9	2115.8	1980.5	1898.3	1863.0	1857.2	1857.2	1869.0
52.5°	2897.4	2586.1	2262.9	1945.5	1698.5	1569.3	1492.8	1475.2	1451.7	1475.2	1475.2
55°	2497.8	2186.4	1869.0	1569.3	1363.4	1228.4	1157.8	1134.3	1122.5	1140.1	1140.1
57.5°	2063.0	1798.4	1504.7	1234.2	1028.6	934.5	881.5	852.3	846.2	858.1	846.2
60°	1692.7	1469.4	1216.6	969.8	811.1	711.2	670.1	658.2	646.4	658.2	658.2
62.5°	1340.0	1152.0	946.1	758.2	622.9	552.5	505.4	505.4	499.6	499.6	505.4
65°	993.3	846.2	699.4	540.7	435.0	382.0	346.7	346.7	340.9	346.7	340.9
67.5°	722.8	622.9	505.4	393.8	311.6	282.1	258.6	240.9	252.8	240.9	235.1
70°	529.1	446.6	364.3	299.7	240.9	211.7	194.0	188.0	176.4	176.4	176.4
72.5°	352.7	299.7	246.8	194.0	158.7	129.2	123.4	111.8	99.9	105.7	117.6
75°	235.1	199.8	176.4	141.0	105.7	105.7	70.6	70.6	58.8	70.6	53.0
77.5°	164.5	135.2	105.7	88.1	70.6	64.6	46.9	46.9	41.1	41.1	41.1
80°	117.6	99.9	76.4	64.6	46.9	46.9	41.1	35.3	29.3	29.3	35.3
82.5°	70.6	53.0	53.0	46.9	29.3	23.5	17.7	23.5	11.9	11.9	11.9
85°	41.1	35.3	29.3	17.7	11.9	11.9	5.8	0.0	5.8	5.8	0.0
87.5°	23.5	11.9	11.9	5.8	0.0	5.8	5.8	0.0	0.0	0.0	11.9
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: P248802

CATALOG NUMBER: LD8B200D010 ER8B200850 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	12036.6	12036.6	12036.6	12036.6	12036.6	12036.6	12036.6	12036.6	12036.6	12036.6	12036.6
2.5°	12107.3	12101.2	12113.1	12113.1	12148.4	12142.3	12160.0	12160.0	12148.4	12154.2	12177.7
5°	12148.4	12166.0	12201.1	12230.6	12283.4	12307.1	12336.4	12365.9	12371.7	12389.3	12407.0
7.5°	12148.4	12207.2	12248.3	12301.0	12371.7	12412.8	12477.4	12530.4	12553.8	12583.1	12618.4
10°	12124.7	12183.5	12259.9	12318.7	12407.0	12471.6	12536.2	12618.4	12653.7	12700.7	12747.8
12.5°	12077.8	12142.3	12224.6	12301.0	12400.9	12459.7	12542.0	12618.4	12671.4	12736.0	12789.0
15°	12007.4	12083.6	12160.0	12236.4	12342.2	12412.8	12489.2	12577.3	12630.3	12700.7	12747.8
17.5°	11895.6	11977.8	12048.5	12118.9	12218.8	12301.0	12371.7	12453.9	12506.9	12565.7	12630.3
20°	11760.4	11836.8	11913.2	11972.0	12071.9	12142.3	12218.8	12295.2	12336.4	12348.2	12448.1
22.5°	11590.1	11642.8	11701.6	11795.7	11854.5	11919.1	11989.7	12060.1	12101.2	12166.0	12201.1
25°	11307.7	11360.7	11425.3	11466.4	11537.1	11590.1	11660.5	11736.9	11760.4	11807.5	11842.6
27.5°	10914.1	10943.4	10972.9	11008.0	11049.1	11078.6	11119.8	11155.1	11178.6	11202.0	11225.5
30°	10291.0	10291.0	10291.0	10267.5	10285.2	10302.8	10308.6	10302.8	10302.8	10297.0	10297.0
32.5°	9468.2	9421.3	9368.3	9321.4	9303.7	9280.3	9268.4	9250.8	9221.5	9203.8	9209.6
35°	8357.4	8251.7	8187.1	8128.3	8081.3	8046.0	8028.4	8010.7	8004.9	7981.4	7957.7
37.5°	6970.5	6894.0	6847.1	6811.8	6770.7	6735.3	6741.1	6747.2	6764.6	6753.0	6758.8
40°	5501.1	5483.4	5501.1	5460.0	5448.1	5460.0	5489.2	5530.6	5554.1	5577.5	5618.7
42.5°	4184.6	4213.9	4255.3	4255.3	4272.7	4296.4	4331.5	4396.3	4431.4	4472.5	4519.7
45°	3150.2	3185.5	3238.5	3255.9	3267.8	3297.0	3338.4	3391.1	3414.6	3449.9	3491.0
47.5°	2427.4	2450.8	2480.1	2509.6	2538.9	2550.7	2591.9	2591.9	2621.4	2644.8	2656.4
50°	1892.5	1916.0	1939.4	1957.1	1968.9	1986.6	1998.2	2015.9	2021.7	2033.5	2039.3
52.5°	1481.0	1510.5	1510.5	1522.1	1539.8	1557.4	1551.6	1557.4	1563.2	1563.2	1580.9
55°	1157.8	1157.8	1175.5	1175.5	1187.3	1181.3	1187.3	1187.3	1187.3	1187.3	1193.1
57.5°	863.9	869.9	887.6	875.7	869.9	881.5	869.9	881.5	875.7	887.6	869.9
60°	664.1	664.1	670.1	670.1	675.9	675.9	675.9	670.1	670.1	664.1	664.1
62.5°	499.6	505.4	511.4	505.4	505.4	505.4	499.6	499.6	493.7	487.7	487.7
65°	335.0	329.2	340.9	329.2	335.0	335.0	329.2	335.0	317.4	323.2	317.4
67.5°	240.9	235.1	229.3	235.1	229.3	223.3	223.3	229.3	235.1	217.5	217.5
70°	158.7	164.5	158.7	164.5	170.5	170.5	164.5	158.7	164.5	152.9	158.7
72.5°	99.9	99.9	99.9	99.9	99.9	105.7	105.7	105.7	94.1	94.1	88.1
75°	46.9	64.6	53.0	46.9	64.6	64.6	58.8	58.8	53.0	53.0	53.0
77.5°	46.9	35.3	35.3	35.3	35.3	35.3	35.3	35.3	29.3	35.3	29.3
80°	23.5	23.5	23.5	17.7	23.5	23.5	29.3	23.5	23.5	17.7	29.3
82.5°	11.9	11.9	11.9	0.0	5.8	11.9	11.9	5.8	11.9	11.9	5.8
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: P248802

CATALOG NUMBER: LD8B200D010 ER8B200850 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	12036.6	12036.6	12036.6	12036.6	12036.6	12036.6	12036.6	12036.6	12036.6	12036.6	12036.6
2.5°	12171.9	12166.0	12171.9	12177.7	12171.9	12166.0	12171.9	12177.7	12154.2	12148.4	12160.0
5°	12430.5	12430.5	12442.1	12448.1	12442.1	12430.5	12430.5	12407.0	12389.3	12371.7	12365.9
7.5°	12653.7	12665.6	12677.2	12683.0	12677.2	12665.6	12653.7	12618.4	12583.1	12553.8	12530.4
10°	12789.0	12806.6	12830.1	12841.7	12830.1	12806.6	12789.0	12747.8	12700.7	12653.7	12618.4
12.5°	12847.8	12865.4	12894.7	12888.9	12894.7	12865.4	12847.8	12789.0	12736.0	12671.4	12618.4
15°	12806.6	12830.1	12859.4	12871.2	12859.4	12830.1	12806.6	12747.8	12700.7	12630.3	12577.3
17.5°	12677.2	12712.5	12730.2	12747.8	12730.2	12712.5	12677.2	12630.3	12565.7	12506.9	12453.9
20°	12500.9	12524.6	12548.0	12553.8	12548.0	12524.6	12500.9	12448.1	12348.2	12336.4	12295.2
22.5°	12248.3	12266.0	12318.7	12301.0	12318.7	12266.0	12248.3	12201.1	12166.0	12101.2	12060.1
25°	11883.7	11901.4	11907.4	11913.2	11907.4	11901.4	11883.7	11842.6	11807.5	11760.4	11736.9
27.5°	11255.0	11255.0	11266.6	11272.7	11266.6	11255.0	11255.0	11225.5	11202.0	11178.6	11155.1
30°	10302.8	10302.8	10302.8	10332.3	10302.8	10302.8	10302.8	10297.0	10297.0	10302.8	10302.8
32.5°	9203.8	9192.0	9180.4	9192.0	9180.4	9192.0	9203.8	9209.6	9203.8	9221.5	9250.8
35°	7957.7	7951.9	7969.6	7946.1	7969.6	7951.9	7957.7	7957.7	7981.4	8004.9	8010.7
37.5°	6764.6	6753.0	6776.5	6753.0	6776.5	6753.0	6764.6	6758.8	6753.0	6764.6	6747.2
40°	5630.5	5642.1	5642.1	5689.3	5642.1	5642.1	5630.5	5618.7	5577.5	5554.1	5530.6
42.5°	4543.1	4578.4	4566.6	4601.9	4566.6	4578.4	4543.1	4519.7	4472.5	4431.4	4396.3
45°	3514.5	3538.2	3538.2	3549.8	3538.2	3538.2	3514.5	3491.0	3449.9	3414.6	3391.1
47.5°	2697.6	2697.6	2697.6	2703.6	2697.6	2697.6	2697.6	2656.4	2644.8	2621.4	2591.9
50°	2051.2	2057.0	2063.0	2068.8	2063.0	2057.0	2051.2	2039.3	2033.5	2021.7	2015.9
52.5°	1575.1	1580.9	1569.3	1580.9	1569.3	1580.9	1575.1	1580.9	1563.2	1563.2	1557.4
55°	1193.1	1187.3	1193.1	1198.9	1193.1	1187.3	1193.1	1193.1	1187.3	1187.3	1187.3
57.5°	875.7	863.9	863.9	863.9	863.9	863.9	875.7	869.9	887.6	875.7	881.5
60°	652.4	658.2	658.2	664.1	658.2	658.2	652.4	664.1	664.1	670.1	670.1
62.5°	481.9	499.6	487.7	499.6	487.7	499.6	481.9	487.7	487.7	493.7	499.6
65°	311.6	311.6	311.6	317.4	311.6	311.6	311.6	317.4	323.2	317.4	335.0
67.5°	211.7	217.5	229.3	223.3	229.3	217.5	211.7	217.5	217.5	235.1	229.3
70°	170.5	152.9	152.9	170.5	152.9	152.9	170.5	158.7	152.9	164.5	158.7
72.5°	99.9	88.1	99.9	99.9	99.9	88.1	99.9	88.1	94.1	94.1	105.7
75°	53.0	46.9	41.1	58.8	41.1	46.9	53.0	53.0	53.0	53.0	58.8
77.5°	35.3	29.3	41.1	41.1	41.1	29.3	35.3	29.3	35.3	29.3	35.3
80°	17.7	23.5	17.7	29.3	17.7	23.5	17.7	29.3	17.7	23.5	23.5
82.5°	5.8	11.9	11.9	11.9	11.9	11.9	5.8	5.8	11.9	11.9	5.8
85°	0.0	11.9	5.8	5.8	5.8	11.9	0.0	0.0	0.0	0.0	0.0
87.5°	5.8	0.0	0.0	5.8	0.0	0.0	5.8	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: P248802

CATALOG NUMBER: LD8B200D010 ER8B200850 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	12036.6	12036.6	12036.6	12036.6	12036.6	12036.6	12036.6	12036.6	12036.6	12036.6	12036.6
2.5°	12160.0	12142.3	12148.4	12113.1	12113.1	12101.2	12107.3	12077.8	12066.1	12054.3	12071.9
5°	12336.4	12307.1	12283.4	12230.6	12201.1	12166.0	12148.4	12101.2	12060.1	12024.8	12019.0
7.5°	12477.4	12412.8	12371.7	12301.0	12248.3	12207.2	12148.4	12083.6	12030.8	11983.6	11948.6
10°	12536.2	12471.6	12407.0	12318.7	12259.9	12183.5	12124.7	12042.4	11972.0	11907.4	11866.1
12.5°	12542.0	12459.7	12400.9	12301.0	12224.6	12142.3	12077.8	11983.6	11901.4	11836.8	11772.2
15°	12489.2	12412.8	12342.2	12236.4	12160.0	12083.6	12007.4	11907.4	11831.0	11754.6	11707.6
17.5°	12371.7	12301.0	12218.8	12118.9	12048.5	11977.8	11895.6	11813.3	11725.0	11642.8	11584.0
20°	12218.8	12142.3	12071.9	11972.0	11913.2	11836.8	11760.4	11672.3	11601.7	11519.4	11454.8
22.5°	11989.7	11919.1	11854.5	11795.7	11701.6	11642.8	11590.1	11490.1	11419.5	11343.1	11272.7
25°	11660.5	11590.1	11537.1	11466.4	11425.3	11360.7	11307.7	11219.7	11155.1	11084.5	11025.7
27.5°	11119.8	11078.6	11049.1	11008.0	10972.9	10943.4	10914.1	10843.5	10796.6	10732.0	10673.2
30°	10308.6	10302.8	10285.2	10267.5	10291.0	10291.0	10291.0	10279.4	10238.2	10191.1	10149.9
32.5°	9268.4	9280.3	9303.7	9321.4	9368.3	9421.3	9468.2	9491.7	9491.7	9462.4	9444.8
35°	8028.4	8046.0	8081.3	8128.3	8187.1	8251.7	8357.4	8381.1	8398.5	8398.5	8375.0
37.5°	6741.1	6735.3	6770.7	6811.8	6847.1	6894.0	6970.5	6988.1	7017.4	7005.8	6982.1
40°	5489.2	5460.0	5448.1	5460.0	5501.1	5483.4	5501.1	5489.2	5489.2	5448.1	5448.1
42.5°	4331.5	4296.4	4272.7	4255.3	4255.3	4213.9	4184.6	4155.3	4137.7	4108.2	4102.4
45°	3338.4	3297.0	3267.8	3255.9	3238.5	3185.5	3150.2	3114.9	3073.7	3062.1	3067.9
47.5°	2591.9	2550.7	2538.9	2509.6	2480.1	2450.8	2427.4	2386.2	2380.2	2356.7	2380.2
50°	1998.2	1986.6	1968.9	1957.1	1939.4	1916.0	1892.5	1869.0	1857.2	1857.2	1863.0
52.5°	1551.6	1557.4	1539.8	1522.1	1510.5	1510.5	1481.0	1475.2	1475.2	1451.7	1475.2
55°	1187.3	1181.3	1187.3	1175.5	1175.5	1157.8	1157.8	1140.1	1140.1	1122.5	1134.3
57.5°	869.9	881.5	869.9	875.7	887.6	869.9	863.9	846.2	858.1	846.2	852.3
60°	675.9	675.9	675.9	670.1	670.1	664.1	664.1	658.2	658.2	646.4	658.2
62.5°	499.6	505.4	505.4	505.4	511.4	505.4	499.6	505.4	499.6	499.6	505.4
65°	329.2	335.0	335.0	329.2	340.9	329.2	335.0	340.9	346.7	340.9	346.7
67.5°	223.3	223.3	229.3	235.1	229.3	235.1	240.9	235.1	240.9	252.8	240.9
70°	164.5	170.5	170.5	164.5	158.7	164.5	158.7	176.4	176.4	176.4	188.0
72.5°	105.7	105.7	99.9	99.9	99.9	99.9	99.9	117.6	105.7	99.9	111.8
75°	58.8	64.6	64.6	46.9	53.0	64.6	46.9	53.0	70.6	58.8	70.6
77.5°	35.3	35.3	35.3	35.3	35.3	35.3	46.9	41.1	41.1	41.1	46.9
80°	29.3	23.5	23.5	17.7	23.5	23.5	23.5	35.3	29.3	29.3	35.3
82.5°	11.9	11.9	5.8	0.0	11.9	11.9	11.9	11.9	11.9	11.9	23.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	5.8	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.9	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: P248802

CATALOG NUMBER: LD8B200D010 ER8B200850 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	12036.6	12036.6	12036.6	12036.6	12036.6	12036.6	12036.6	12036.6	12036.6	12036.6	12036.6
2.5°	12024.8	12024.8	12019.0	12007.4	11983.6	11983.6	11977.8	11960.2	11948.6	11942.5	11942.5
5°	11966.0	11942.5	11919.1	11854.5	11854.5	11842.6	11807.5	11783.8	11772.2	11742.7	11731.1
7.5°	11913.2	11842.6	11801.5	11760.4	11707.6	11683.9	11642.8	11625.1	11584.0	11554.7	11537.1
10°	11783.8	11736.9	11683.9	11619.3	11578.2	11531.3	11484.1	11449.0	11396.0	11366.5	11343.1
12.5°	11695.8	11625.1	11578.2	11507.6	11437.2	11396.0	11331.4	11290.3	11237.3	11178.6	11143.2
15°	11613.5	11537.1	11472.5	11396.0	11319.6	11272.7	11196.2	11149.3	11072.8	11014.1	10972.9
17.5°	11490.1	11425.3	11354.9	11260.8	11190.4	11131.6	11049.1	10990.6	10920.0	10843.5	10802.4
20°	11360.7	11284.3	11213.9	11119.8	11049.1	10978.7	10896.5	10831.9	10749.4	10679.0	10632.1
22.5°	11190.4	11102.1	11043.3	10949.2	10867.0	10790.8	10714.3	10637.9	10561.4	10502.7	10449.7
25°	10943.4	10849.3	10784.7	10708.3	10632.1	10573.3	10479.2	10432.3	10355.8	10302.8	10249.9
27.5°	10590.7	10520.3	10461.5	10385.1	10320.5	10273.6	10202.9	10156.0	10091.2	10044.2	10003.1
30°	10073.7	10015.0	9962.0	9885.5	9838.6	9797.5	9732.6	9691.5	9644.6	9591.6	9580.0
32.5°	9380.2	9333.0	9280.3	9227.3	9192.0	9168.5	9115.5	9092.1	9045.1	9015.6	8986.3
35°	8333.9	8292.8	8263.5	8240.0	8228.2	8234.0	8222.4	8245.8	8257.5	8251.7	8257.5
37.5°	6964.7	6941.0	6952.8	6970.5	7029.3	7105.7	7176.1	7281.8	7352.5	7423.1	7487.7
40°	5436.5	5454.2	5501.1	5606.8	5759.7	5930.3	6089.0	6288.8	6488.6	6629.6	6758.8
42.5°	4102.4	4155.3	4272.7	4425.6	4654.9	4907.4	5154.4	5448.1	5689.3	5924.2	6089.0
45°	3085.6	3156.0	3308.9	3520.6	3773.1	4067.0	4378.6	4707.6	4995.7	5236.7	5418.9
47.5°	2403.9	2468.5	2621.4	2844.7	3156.0	3461.8	3785.0	4125.8	4425.6	4660.7	4819.4
50°	1898.3	1980.5	2115.8	2350.9	2662.5	2985.7	3320.7	3655.5	3937.9	4137.7	4278.7
52.5°	1492.8	1569.3	1698.5	1945.5	2262.9	2586.1	2897.4	3226.6	3473.4	3667.4	3761.5
55°	1157.8	1228.4	1363.4	1569.3	1869.0	2186.4	2497.8	2780.1	3009.2	3150.2	3238.5
57.5°	881.5	934.5	1028.6	1234.2	1504.7	1798.4	2063.0	2345.1	2521.5	2621.4	2679.9
60°	670.1	711.2	811.1	969.8	1216.6	1469.4	1692.7	1904.3	2045.4	2127.6	2186.4
62.5°	505.4	552.5	622.9	758.2	946.1	1152.0	1340.0	1498.7	1616.2	1669.2	1710.3
65°	346.7	382.0	435.0	540.7	699.4	846.2	993.3	1110.9	1187.3	1246.1	1269.6
67.5°	258.6	282.1	311.6	393.8	505.4	622.9	722.8	805.1	887.6	911.0	952.2
70°	194.0	211.7	240.9	299.7	364.3	446.6	529.1	576.0	634.8	675.9	687.8
72.5°	123.4	129.2	158.7	194.0	246.8	299.7	352.7	393.8	429.2	452.6	464.2
75°	70.6	105.7	105.7	141.0	176.4	199.8	235.1	264.4	282.1	299.7	299.7
77.5°	46.9	64.6	70.6	88.1	105.7	135.2	164.5	182.2	199.8	205.6	205.6
80°	41.1	46.9	46.9	64.6	76.4	99.9	117.6	123.4	135.2	141.0	152.9
82.5°	17.7	23.5	29.3	46.9	53.0	53.0	70.6	76.4	88.1	94.1	94.1
85°	5.8	11.9	11.9	17.7	29.3	35.3	41.1	46.9	53.0	53.0	58.8
87.5°	5.8	5.8	0.0	5.8	11.9	11.9	23.5	23.5	23.5	35.3	35.3
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: P248802

CATALOG NUMBER: LD8B200D010 ER8B200850 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	12036.6	12036.6	12036.6	12036.6	12036.6	12036.6	12036.6
2.5°	11930.9	11936.7	11913.2	11907.4	11895.6	11901.4	11913.2
5°	11713.4	11719.2	11695.8	11672.3	11672.3	11666.3	11672.3
7.5°	11507.6	11513.6	11478.3	11466.4	11443.0	11449.0	11449.0
10°	11301.9	11301.9	11249.2	11243.2	11225.5	11219.7	11219.7
12.5°	11102.1	11084.5	11043.3	11019.9	11031.7	10996.4	10996.4
15°	10925.8	10896.5	10843.5	10825.9	10796.6	10784.7	10784.7
17.5°	10743.6	10720.1	10673.2	10637.9	10602.6	10596.8	10602.6
20°	10567.2	10543.8	10485.0	10461.5	10432.3	10432.3	10420.4
22.5°	10390.9	10367.4	10314.7	10297.0	10255.9	10255.9	10261.7
25°	10208.7	10191.1	10132.3	10120.7	10114.9	10091.2	10103.0
27.5°	9962.0	9950.1	9903.2	9885.5	9862.1	9856.3	9867.9
30°	9509.4	9491.7	9456.6	9439.0	9397.8	9403.6	9415.3
32.5°	8945.2	8921.8	8874.6	8856.9	8821.8	8810.0	8815.8
35°	8240.0	8222.4	8181.3	8181.3	8145.9	8134.1	8145.9
37.5°	7523.0	7540.4	7523.0	7540.4	7523.0	7517.0	7523.0
40°	6847.1	6911.7	6923.3	6988.1	6964.7	6999.8	6993.9
42.5°	6200.5	6306.2	6347.6	6400.3	6388.7	6412.1	6429.8
45°	5548.0	5636.3	5677.5	5712.8	5718.6	5730.4	5736.2
47.5°	4930.9	5001.6	5007.4	5048.5	5042.7	5042.7	5060.3
50°	4355.2	4402.1	4413.7	4443.2	4419.8	4407.9	4413.7
52.5°	3820.3	3867.2	3855.4	3867.2	3838.0	3826.1	3831.9
55°	3273.6	3297.0	3297.0	3297.0	3262.0	3262.0	3262.0
57.5°	2715.2	2721.3	2709.4	2715.2	2709.4	2674.1	2668.3
60°	2204.1	2204.1	2198.0	2204.1	2186.4	2168.8	2168.8
62.5°	1721.9	1733.8	1757.3	1733.8	1721.9	1733.8	1716.1
65°	1287.2	1310.7	1304.6	1316.5	1310.7	1310.7	1298.8
67.5°	969.8	975.6	981.4	987.5	987.5	987.5	987.5
70°	711.2	728.9	722.8	722.8	722.8	722.8	758.2
72.5°	476.1	499.6	493.7	505.4	505.4	517.2	505.4
75°	323.2	346.7	335.0	352.7	346.7	335.0	364.3
77.5°	217.5	229.3	235.1	240.9	235.1	229.3	235.1
80°	152.9	164.5	158.7	164.5	164.5	164.5	170.5
82.5°	94.1	111.8	105.7	111.8	105.7	111.8	111.8
85°	64.6	70.6	58.8	70.6	64.6	64.6	76.4
87.5°	41.1	35.3	35.3	41.1	35.3	41.1	35.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)