

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: P248784

Luminaire Tested: **LD8B200D010 ER8B200835 8LBSW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248784
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 ER8B200835 8LBSW0GPH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3500 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20017.0 lumens
Efficiency: N/A
Efficacy: 89.6 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

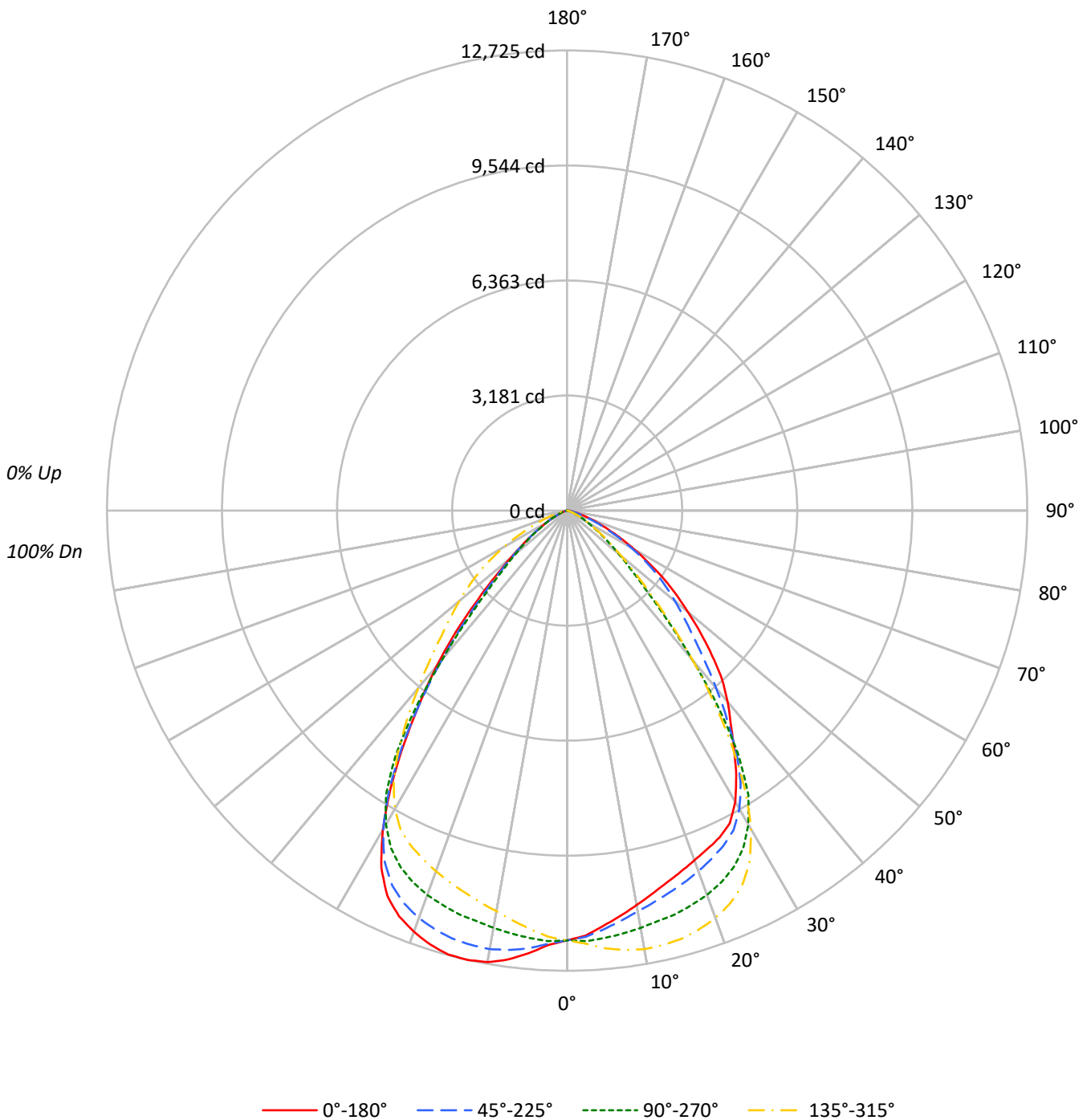
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P248784

CATALOG NUMBER: LD8B200D010 ER8B200835 8LBSW0GPH

Luminous Intensity Polar Plot





TEST NUMBER: P248784

CATALOG NUMBER: LD8B200D010 ER8B200835 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°	366443	366443	366443	366443
5°	356709	367301	380417	367301
10°	346840	366823	396983	366823
15°	339912	368998	405672	368998
20°	337597	371112	406716	371112
25°	339373	370366	400181	370366
30°	330979	356808	363220	356808
35°	302746	311261	295319	311261
40°	277949	216518	226102	216518
45°	246967	132088	152837	132088
50°	209041	88236	97984	88236
55°	173133	60207	63637	60207
60°	132053	40081	40433	40081
65°	93563	24976	22867	24976
70°	67484	16734	15183	16734
75°	42856	8304	6910	8304
80°	29904	6198	5132	6198
85°	26712	0	2017	0



TEST NUMBER: P248784

CATALOG NUMBER: LD8B200D010 ER8B200835 8LBSW0GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1131.1	5.7
10°-20°	3275.4	16.4
20°-30°	4959.7	24.8
30°-40°	4970.8	24.8
40°-50°	3121.4	15.6
50°-60°	1663.4	8.3
60°-70°	684.0	3.4
70°-80°	180.7	0.9
80°-90°	30.6	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	9366.1	46.8
0°-40°	14336.9	71.6
0°-60°	19121.7	95.5
0°-90°	20017.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20017.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	11884	11884	11884	11884	11884	
5°	11524	11866	12290	11866	11524	###
15°	10648	11559	12707	11559	10648	3011
25°	9974	10885	11762	10885	9974	4575
35°	8042	8268	7845	8268	8042	5038
45°	5663	3029	3505	3029	5663	4355
55°	3220	1120	1184	1120	3220	2871
65°	1282	342	313	342	1282	1330
75°	360	70	58	70	360	408
85°	76	0	6	0	76	83
90°	0	0	0	0	0	



TEST NUMBER: P248784

CATALOG NUMBER: LD8B200D010 ER8B200835 8LBSW0GPH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	11883.5	11883.5	11883.5	11883.5	11883.5	11883.5	11883.5	11883.5	11883.5	11883.5	11883.5
2.5°	11761.7	11750.0	11744.2	11755.9	11761.7	11784.8	11779.1	11790.6	11790.6	11796.5	11808.0
5°	11523.8	11517.8	11523.8	11523.8	11546.9	11570.1	11564.4	11581.8	11593.3	11622.4	11633.9
7.5°	11303.3	11303.3	11297.4	11320.5	11332.2	11367.1	11361.1	11390.3	11407.7	11436.6	11477.2
10°	11076.9	11076.9	11082.6	11100.1	11106.1	11158.1	11158.1	11198.7	11221.9	11251.0	11303.3
12.5°	10856.5	10856.5	10891.3	10879.6	10902.8	10943.4	10960.8	11001.4	11036.3	11094.3	11146.7
15°	10647.5	10647.5	10659.2	10688.1	10705.5	10757.8	10786.7	10833.3	10873.9	10931.9	11007.4
17.5°	10467.6	10461.9	10467.6	10502.5	10537.4	10583.7	10606.9	10664.9	10705.5	10781.0	10850.7
20°	10287.8	10299.5	10299.5	10328.4	10351.6	10409.6	10432.8	10496.8	10543.1	10612.6	10694.1
22.5°	10131.1	10125.4	10125.4	10166.0	10183.4	10235.5	10258.7	10316.7	10369.0	10427.0	10502.5
25°	9974.5	9962.8	9986.2	9991.9	10003.4	10061.4	10078.8	10119.4	10171.7	10224.0	10299.5
27.5°	9742.3	9730.8	9736.6	9759.7	9777.2	9823.5	9835.2	9875.8	9916.4	9962.8	10026.8
30°	9295.4	9284.0	9278.3	9318.9	9336.3	9370.9	9388.4	9458.1	9469.6	9521.9	9568.2
32.5°	8703.6	8697.9	8709.6	8744.2	8761.7	8808.2	8831.4	8872.0	8900.9	8930.0	8976.4
35°	8042.3	8030.6	8042.3	8077.2	8077.2	8117.8	8135.2	8152.4	8146.7	8152.4	8140.9
37.5°	7427.3	7421.3	7427.3	7444.5	7427.3	7444.5	7427.3	7392.4	7328.6	7258.9	7189.2
40°	6904.9	6910.7	6876.1	6899.2	6835.2	6823.7	6760.0	6672.8	6545.3	6406.0	6208.7
42.5°	6348.0	6330.6	6307.4	6318.8	6266.8	6225.9	6121.6	6011.5	5848.8	5616.9	5378.8
45°	5663.2	5657.5	5645.8	5640.1	5605.2	5564.6	5477.4	5349.9	5170.1	4932.2	4647.7
47.5°	4995.9	4978.5	4978.5	4984.2	4943.6	4937.9	4868.2	4758.1	4601.4	4369.2	4073.3
50°	4357.5	4351.8	4363.5	4386.7	4357.5	4346.1	4299.7	4224.3	4085.0	3887.8	3609.0
52.5°	3783.1	3777.4	3789.1	3818.0	3806.3	3818.0	3771.7	3713.6	3620.7	3429.2	3185.6
55°	3220.4	3220.4	3220.4	3255.1	3255.1	3255.1	3231.9	3197.3	3110.1	2970.9	2744.7
57.5°	2634.3	2640.1	2674.9	2680.7	2674.9	2686.7	2680.7	2645.8	2588.0	2489.4	2315.3
60°	2141.2	2141.2	2158.6	2176.0	2170.1	2176.0	2176.0	2158.6	2100.6	2019.3	1880.1
62.5°	1694.3	1711.7	1700.0	1711.7	1734.9	1711.7	1700.0	1688.6	1648.0	1595.7	1479.6
65°	1282.3	1294.0	1294.0	1299.7	1288.0	1294.0	1270.8	1253.4	1230.2	1172.2	1096.7
67.5°	974.9	974.9	974.9	974.9	969.0	963.2	957.5	940.1	899.5	876.3	794.8
70°	748.5	713.6	713.6	713.6	713.6	719.6	702.2	679.0	667.3	626.7	568.7
72.5°	498.9	510.6	498.9	498.9	487.5	493.2	470.0	458.3	446.9	423.7	388.8
75°	359.7	330.8	342.3	348.2	330.8	342.3	319.1	295.9	295.9	278.5	261.0
77.5°	232.1	226.4	232.1	237.9	232.1	226.4	214.7	203.0	203.0	197.3	179.8
80°	168.4	162.4	162.4	162.4	156.7	162.4	150.9	150.9	139.2	133.5	121.8
82.5°	110.3	110.3	104.4	110.3	104.4	110.3	92.9	92.9	92.9	86.9	75.5
85°	75.5	63.8	63.8	69.7	58.0	69.7	63.8	58.0	52.3	52.3	46.3
87.5°	34.9	40.6	34.9	40.6	34.9	34.9	40.6	34.9	34.9	23.2	23.2
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: P248784

CATALOG NUMBER: LD8B200D010 ER8B200835 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	11883.5	11883.5	11883.5	11883.5	11883.5	11883.5	11883.5	11883.5	11883.5	11883.5	11883.5
2.5°	11825.4	11831.2	11831.2	11854.6	11866.0	11871.8	11871.8	11918.3	11900.9	11912.6	11924.1
5°	11657.3	11691.9	11703.6	11703.6	11767.4	11790.6	11813.7	11866.0	11871.8	11906.6	11947.2
7.5°	11494.6	11535.2	11558.6	11610.7	11651.3	11691.9	11761.7	11796.5	11831.2	11877.7	11929.8
10°	11338.0	11384.5	11430.9	11471.5	11535.2	11587.5	11633.9	11715.1	11755.9	11819.7	11889.2
12.5°	11187.3	11251.0	11291.6	11361.1	11430.9	11477.2	11546.9	11622.4	11686.2	11750.0	11831.2
15°	11053.7	11129.2	11175.6	11251.0	11326.5	11390.3	11465.7	11558.6	11605.0	11680.4	11755.9
17.5°	10908.5	10990.0	11048.0	11117.5	11210.4	11279.9	11343.9	11436.6	11494.6	11575.8	11663.0
20°	10757.8	10839.0	10908.5	10978.3	11071.2	11140.7	11216.2	11309.1	11372.8	11454.0	11523.8
22.5°	10578.0	10653.5	10728.7	10809.9	10902.8	10960.8	11048.0	11129.2	11198.7	11274.2	11343.9
25°	10345.8	10438.7	10496.8	10572.0	10647.5	10711.3	10804.2	10885.4	10943.4	11013.1	11076.9
27.5°	10073.1	10142.8	10189.2	10252.9	10328.4	10386.4	10455.9	10537.4	10595.4	10659.2	10705.5
30°	9608.8	9672.8	9713.4	9759.7	9835.2	9887.5	9945.6	10020.8	10061.4	10108.0	10148.6
32.5°	8999.5	9051.8	9075.0	9109.9	9162.2	9214.2	9260.8	9324.6	9342.0	9370.9	9370.9
35°	8117.8	8129.2	8123.5	8135.2	8158.4	8187.3	8227.9	8268.5	8291.6	8291.6	8274.4
37.5°	7084.8	7015.3	6939.8	6881.8	6864.3	6852.6	6876.1	6893.2	6916.7	6928.1	6899.2
40°	6011.5	5854.8	5686.4	5535.5	5431.1	5384.8	5367.3	5378.8	5378.8	5419.4	5419.4
42.5°	5088.9	4845.0	4595.7	4369.2	4218.3	4102.5	4050.2	4050.2	4055.9	4085.0	4102.5
45°	4322.9	4015.3	3725.1	3475.8	3266.8	3115.8	3046.3	3028.9	3023.2	3034.6	3075.2
47.5°	3736.8	3417.7	3115.8	2808.5	2588.0	2437.1	2373.3	2349.9	2326.7	2349.9	2355.9
50°	3278.5	2947.7	2628.6	2321.0	2088.8	1955.3	1874.1	1839.3	1833.5	1833.5	1845.2
52.5°	2860.5	2553.1	2234.1	1920.7	1676.9	1549.3	1473.8	1456.4	1433.2	1456.4	1456.4
55°	2466.0	2158.6	1845.2	1549.3	1346.1	1212.8	1143.1	1119.9	1108.2	1125.6	1125.6
57.5°	2036.8	1775.5	1485.6	1218.5	1015.5	922.6	870.3	841.4	835.4	847.1	835.4
60°	1671.1	1450.7	1201.1	957.5	800.8	702.2	661.6	649.9	638.2	649.9	649.9
62.5°	1322.9	1137.3	934.1	748.5	615.0	545.5	498.9	498.9	493.2	493.2	498.9
65°	980.7	835.4	690.5	533.8	429.4	377.1	342.3	342.3	336.5	342.3	336.5
67.5°	713.6	615.0	498.9	388.8	307.6	278.5	255.3	237.9	249.6	237.9	232.1
70°	522.3	440.9	359.7	295.9	237.9	209.0	191.5	185.6	174.1	174.1	174.1
72.5°	348.2	295.9	243.6	191.5	156.7	127.5	121.8	110.3	98.6	104.4	116.1
75°	232.1	197.3	174.1	139.2	104.4	104.4	69.7	69.7	58.0	69.7	52.3
77.5°	162.4	133.5	104.4	86.9	69.7	63.8	46.3	46.3	40.6	40.6	40.6
80°	116.1	98.6	75.5	63.8	46.3	46.3	40.6	34.9	28.9	28.9	34.9
82.5°	69.7	52.3	52.3	46.3	28.9	23.2	17.4	23.2	11.7	11.7	11.7
85°	40.6	34.9	28.9	17.4	11.7	11.7	5.7	0.0	5.7	5.7	0.0
87.5°	23.2	11.7	11.7	5.7	0.0	5.7	5.7	0.0	0.0	0.0	11.7
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: P248784

CATALOG NUMBER: LD8B200D010 ER8B200835 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	11883.5	11883.5	11883.5	11883.5	11883.5	11883.5	11883.5	11883.5	11883.5	11883.5	11883.5
2.5°	11953.2	11947.2	11958.9	11958.9	11993.8	11987.8	12005.3	12005.3	11993.8	11999.5	12022.7
5°	11993.8	12011.2	12045.9	12075.0	12127.1	12150.5	12179.4	12208.5	12214.2	12231.7	12249.1
7.5°	11993.8	12051.8	12092.4	12144.5	12214.2	12254.8	12318.6	12370.9	12394.1	12423.0	12457.9
10°	11970.4	12028.4	12103.9	12161.9	12249.1	12312.9	12376.7	12457.9	12492.7	12539.1	12585.6
12.5°	11924.1	11987.8	12069.0	12144.5	12243.1	12301.2	12382.4	12457.9	12510.2	12573.9	12626.2
15°	11854.6	11929.8	12005.3	12080.7	12185.1	12254.8	12330.3	12417.3	12469.6	12539.1	12585.6
17.5°	11744.2	11825.4	11895.2	11964.7	12063.3	12144.5	12214.2	12295.4	12347.8	12405.8	12469.6
20°	11610.7	11686.2	11761.7	11819.7	11918.3	11987.8	12063.3	12138.8	12179.4	12191.1	12289.7
22.5°	11442.6	11494.6	11552.7	11645.6	11703.6	11767.4	11837.1	11906.6	11947.2	12011.2	12045.9
25°	11163.9	11216.2	11279.9	11320.5	11390.3	11442.6	11512.1	11587.5	11610.7	11657.3	11691.9
27.5°	10775.3	10804.2	10833.3	10867.9	10908.5	10937.7	10978.3	11013.1	11036.3	11059.5	11082.6
30°	10160.0	10160.0	10160.0	10136.9	10154.3	10171.7	10177.5	10171.7	10171.7	10166.0	10166.0
32.5°	9347.8	9301.4	9249.1	9202.8	9185.3	9162.2	9150.5	9133.0	9104.1	9086.7	9092.4
35°	8251.0	8146.7	8082.9	8024.8	7978.5	7943.6	7926.2	7908.8	7903.0	7879.9	7856.5
37.5°	6881.8	6806.3	6760.0	6725.1	6684.5	6649.6	6655.4	6661.3	6678.5	6667.1	6672.8
40°	5431.1	5413.7	5431.1	5390.5	5378.8	5390.5	5419.4	5460.2	5483.4	5506.6	5547.2
42.5°	4131.4	4160.3	4201.1	4201.1	4218.3	4241.7	4276.3	4340.3	4375.0	4415.6	4462.1
45°	3110.1	3145.0	3197.3	3214.5	3226.2	3255.1	3295.9	3348.0	3371.2	3406.0	3446.6
47.5°	2396.5	2419.6	2448.5	2477.7	2506.6	2518.3	2558.9	2558.9	2588.0	2611.2	2622.6
50°	1868.4	1891.6	1914.7	1932.2	1943.9	1961.3	1972.8	1990.2	1995.9	2007.6	2013.4
52.5°	1462.1	1491.3	1491.3	1502.7	1520.2	1537.6	1531.9	1537.6	1543.3	1543.3	1560.8
55°	1143.1	1143.1	1160.5	1160.5	1172.2	1166.2	1172.2	1172.2	1172.2	1172.2	1177.9
57.5°	852.9	858.8	876.3	864.6	858.8	870.3	858.8	870.3	864.6	876.3	858.8
60°	655.6	655.6	661.6	661.6	667.3	667.3	667.3	661.6	661.6	655.6	655.6
62.5°	493.2	498.9	504.9	498.9	498.9	498.9	493.2	493.2	487.5	481.5	481.5
65°	330.8	325.1	336.5	325.1	330.8	330.8	325.1	330.8	313.4	319.1	313.4
67.5°	237.9	232.1	226.4	232.1	226.4	220.4	220.4	226.4	232.1	214.7	214.7
70°	156.7	162.4	156.7	162.4	168.4	168.4	162.4	156.7	162.4	150.9	156.7
72.5°	98.6	98.6	98.6	98.6	98.6	104.4	104.4	104.4	92.9	92.9	86.9
75°	46.3	63.8	52.3	46.3	63.8	63.8	58.0	58.0	52.3	52.3	52.3
77.5°	46.3	34.9	34.9	34.9	34.9	34.9	34.9	34.9	28.9	34.9	28.9
80°	23.2	23.2	23.2	17.4	23.2	23.2	28.9	23.2	23.2	17.4	28.9
82.5°	11.7	11.7	11.7	0.0	5.7	11.7	11.7	5.7	11.7	11.7	5.7
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: P248784

CATALOG NUMBER: LD8B200D010 ER8B200835 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	11883.5	11883.5	11883.5	11883.5	11883.5	11883.5	11883.5	11883.5	11883.5	11883.5	11883.5
2.5°	12017.0	12011.2	12017.0	12022.7	12017.0	12011.2	12017.0	12022.7	11999.5	11993.8	12005.3
5°	12272.3	12272.3	12283.7	12289.7	12283.7	12272.3	12272.3	12249.1	12231.7	12214.2	12208.5
7.5°	12492.7	12504.4	12515.9	12521.6	12515.9	12504.4	12492.7	12457.9	12423.0	12394.1	12370.9
10°	12626.2	12643.7	12666.8	12678.3	12666.8	12643.7	12626.2	12585.6	12539.1	12492.7	12457.9
12.5°	12684.3	12701.7	12730.6	12724.9	12730.6	12701.7	12684.3	12626.2	12573.9	12510.2	12457.9
15°	12643.7	12666.8	12695.7	12707.4	12695.7	12666.8	12643.7	12585.6	12539.1	12469.6	12417.3
17.5°	12515.9	12550.8	12568.2	12585.6	12568.2	12550.8	12515.9	12469.6	12405.8	12347.8	12295.4
20°	12341.8	12365.2	12388.4	12394.1	12388.4	12365.2	12341.8	12289.7	12191.1	12179.4	12138.8
22.5°	12092.4	12109.9	12161.9	12144.5	12161.9	12109.9	12092.4	12045.9	12011.2	11947.2	11906.6
25°	11732.5	11750.0	11755.9	11761.7	11755.9	11750.0	11732.5	11691.9	11657.3	11610.7	11587.5
27.5°	11111.8	11111.8	11123.2	11129.2	11123.2	11111.8	11111.8	11082.6	11059.5	11036.3	11013.1
30°	10171.7	10171.7	10171.7	10200.9	10171.7	10171.7	10171.7	10166.0	10166.0	10171.7	10171.7
32.5°	9086.7	9075.0	9063.5	9075.0	9063.5	9075.0	9086.7	9092.4	9086.7	9104.1	9133.0
35°	7856.5	7850.7	7868.2	7845.0	7868.2	7850.7	7856.5	7856.5	7879.9	7903.0	7908.8
37.5°	6678.5	6667.1	6690.2	6667.1	6690.2	6667.1	6678.5	6672.8	6667.1	6678.5	6661.3
40°	5558.9	5570.3	5570.3	5616.9	5570.3	5570.3	5558.9	5547.2	5506.6	5483.4	5460.2
42.5°	4485.3	4520.2	4508.5	4543.4	4508.5	4520.2	4485.3	4462.1	4415.6	4375.0	4340.3
45°	3469.8	3493.2	3493.2	3504.7	3493.2	3493.2	3469.8	3446.6	3406.0	3371.2	3348.0
47.5°	2663.2	2663.2	2663.2	2669.2	2663.2	2663.2	2663.2	2622.6	2611.2	2588.0	2558.9
50°	2025.1	2030.8	2036.8	2042.5	2036.8	2030.8	2025.1	2013.4	2007.6	1995.9	1990.2
52.5°	1555.1	1560.8	1549.3	1560.8	1549.3	1560.8	1555.1	1560.8	1543.3	1543.3	1537.6
55°	1177.9	1172.2	1177.9	1183.7	1177.9	1172.2	1177.9	1177.9	1172.2	1172.2	1172.2
57.5°	864.6	852.9	852.9	852.9	852.9	852.9	864.6	858.8	876.3	864.6	870.3
60°	644.1	649.9	649.9	655.6	649.9	649.9	644.1	655.6	655.6	661.6	661.6
62.5°	475.8	493.2	481.5	493.2	481.5	493.2	475.8	481.5	481.5	487.5	493.2
65°	307.6	307.6	307.6	313.4	307.6	307.6	307.6	313.4	319.1	313.4	330.8
67.5°	209.0	214.7	226.4	220.4	226.4	214.7	209.0	214.7	214.7	232.1	226.4
70°	168.4	150.9	150.9	168.4	150.9	150.9	168.4	156.7	150.9	162.4	156.7
72.5°	98.6	86.9	98.6	98.6	98.6	86.9	98.6	86.9	92.9	92.9	104.4
75°	52.3	46.3	40.6	58.0	40.6	46.3	52.3	52.3	52.3	52.3	58.0
77.5°	34.9	28.9	40.6	40.6	40.6	28.9	34.9	28.9	34.9	28.9	34.9
80°	17.4	23.2	17.4	28.9	17.4	23.2	17.4	28.9	17.4	23.2	23.2
82.5°	5.7	11.7	11.7	11.7	11.7	11.7	5.7	5.7	11.7	11.7	5.7
85°	0.0	11.7	5.7	5.7	5.7	11.7	0.0	0.0	0.0	0.0	0.0
87.5°	5.7	0.0	0.0	5.7	0.0	0.0	5.7	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: P248784

CATALOG NUMBER: LD8B200D010 ER8B200835 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	11883.5	11883.5	11883.5	11883.5	11883.5	11883.5	11883.5	11883.5	11883.5	11883.5	11883.5
2.5°	12005.3	11987.8	11993.8	11958.9	11958.9	11947.2	11953.2	11924.1	11912.6	11900.9	11918.3
5°	12179.4	12150.5	12127.1	12075.0	12045.9	12011.2	11993.8	11947.2	11906.6	11871.8	11866.0
7.5°	12318.6	12254.8	12214.2	12144.5	12092.4	12051.8	11993.8	11929.8	11877.7	11831.2	11796.5
10°	12376.7	12312.9	12249.1	12161.9	12103.9	12028.4	11970.4	11889.2	11819.7	11755.9	11715.1
12.5°	12382.4	12301.2	12243.1	12144.5	12069.0	11987.8	11924.1	11831.2	11750.0	11686.2	11622.4
15°	12330.3	12254.8	12185.1	12080.7	12005.3	11929.8	11854.6	11755.9	11680.4	11605.0	11558.6
17.5°	12214.2	12144.5	12063.3	11964.7	11895.2	11825.4	11744.2	11663.0	11575.8	11494.6	11436.6
20°	12063.3	11987.8	11918.3	11819.7	11761.7	11686.2	11610.7	11523.8	11454.0	11372.8	11309.1
22.5°	11837.1	11767.4	11703.6	11645.6	11552.7	11494.6	11442.6	11343.9	11274.2	11198.7	11129.2
25°	11512.1	11442.6	11390.3	11320.5	11279.9	11216.2	11163.9	11076.9	11013.1	10943.4	10885.4
27.5°	10978.3	10937.7	10908.5	10867.9	10833.3	10804.2	10775.3	10705.5	10659.2	10595.4	10537.4
30°	10177.5	10171.7	10154.3	10136.9	10160.0	10160.0	10160.0	10148.6	10108.0	10061.4	10020.8
32.5°	9150.5	9162.2	9185.3	9202.8	9249.1	9301.4	9347.8	9370.9	9370.9	9342.0	9324.6
35°	7926.2	7943.6	7978.5	8024.8	8082.9	8146.7	8251.0	8274.4	8291.6	8291.6	8268.5
37.5°	6655.4	6649.6	6684.5	6725.1	6760.0	6806.3	6881.8	6899.2	6928.1	6916.7	6893.2
40°	5419.4	5390.5	5378.8	5390.5	5431.1	5413.7	5431.1	5419.4	5419.4	5378.8	5378.8
42.5°	4276.3	4241.7	4218.3	4201.1	4201.1	4160.3	4131.4	4102.5	4085.0	4055.9	4050.2
45°	3295.9	3255.1	3226.2	3214.5	3197.3	3145.0	3110.1	3075.2	3034.6	3023.2	3028.9
47.5°	2558.9	2518.3	2506.6	2477.7	2448.5	2419.6	2396.5	2355.9	2349.9	2326.7	2349.9
50°	1972.8	1961.3	1943.9	1932.2	1914.7	1891.6	1868.4	1845.2	1833.5	1833.5	1839.3
52.5°	1531.9	1537.6	1520.2	1502.7	1491.3	1491.3	1462.1	1456.4	1456.4	1433.2	1456.4
55°	1172.2	1166.2	1172.2	1160.5	1160.5	1143.1	1143.1	1125.6	1125.6	1108.2	1119.9
57.5°	858.8	870.3	858.8	864.6	876.3	858.8	852.9	835.4	847.1	835.4	841.4
60°	667.3	667.3	667.3	661.6	661.6	655.6	655.6	649.9	649.9	638.2	649.9
62.5°	493.2	498.9	498.9	498.9	504.9	498.9	493.2	498.9	493.2	493.2	498.9
65°	325.1	330.8	330.8	325.1	336.5	325.1	330.8	336.5	342.3	336.5	342.3
67.5°	220.4	220.4	226.4	232.1	226.4	232.1	237.9	232.1	237.9	249.6	237.9
70°	162.4	168.4	168.4	162.4	156.7	162.4	156.7	174.1	174.1	174.1	185.6
72.5°	104.4	104.4	98.6	98.6	98.6	98.6	98.6	116.1	104.4	98.6	110.3
75°	58.0	63.8	63.8	46.3	52.3	63.8	46.3	52.3	69.7	58.0	69.7
77.5°	34.9	34.9	34.9	34.9	34.9	34.9	46.3	40.6	40.6	40.6	46.3
80°	28.9	23.2	23.2	17.4	23.2	23.2	23.2	34.9	28.9	28.9	34.9
82.5°	11.7	11.7	5.7	0.0	11.7	11.7	11.7	11.7	11.7	11.7	23.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	5.7	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.7	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: P248784

CATALOG NUMBER: LD8B200D010 ER8B200835 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	11883.5	11883.5	11883.5	11883.5	11883.5	11883.5	11883.5	11883.5	11883.5	11883.5	11883.5
2.5°	11871.8	11871.8	11866.0	11854.6	11831.2	11831.2	11825.4	11808.0	11796.5	11790.6	11790.6
5°	11813.7	11790.6	11767.4	11703.6	11703.6	11691.9	11657.3	11633.9	11622.4	11593.3	11581.8
7.5°	11761.7	11691.9	11651.3	11610.7	11558.6	11535.2	11494.6	11477.2	11436.6	11407.7	11390.3
10°	11633.9	11587.5	11535.2	11471.5	11430.9	11384.5	11338.0	11303.3	11251.0	11221.9	11198.7
12.5°	11546.9	11477.2	11430.9	11361.1	11291.6	11251.0	11187.3	11146.7	11094.3	11036.3	11001.4
15°	11465.7	11390.3	11326.5	11251.0	11175.6	11129.2	11053.7	11007.4	10931.9	10873.9	10833.3
17.5°	11343.9	11279.9	11210.4	11117.5	11048.0	10990.0	10908.5	10850.7	10781.0	10705.5	10664.9
20°	11216.2	11140.7	11071.2	10978.3	10908.5	10839.0	10757.8	10694.1	10612.6	10543.1	10496.8
22.5°	11048.0	10960.8	10902.8	10809.9	10728.7	10653.5	10578.0	10502.5	10427.0	10369.0	10316.7
25°	10804.2	10711.3	10647.5	10572.0	10496.8	10438.7	10345.8	10299.5	10224.0	10171.7	10119.4
27.5°	10455.9	10386.4	10328.4	10252.9	10189.2	10142.8	10073.1	10026.8	9962.8	9916.4	9875.8
30°	9945.6	9887.5	9835.2	9759.7	9713.4	9672.8	9608.8	9568.2	9521.9	9469.6	9458.1
32.5°	9260.8	9214.2	9162.2	9109.9	9075.0	9051.8	8999.5	8976.4	8930.0	8900.9	8872.0
35°	8227.9	8187.3	8158.4	8135.2	8123.5	8129.2	8117.8	8140.9	8152.4	8146.7	8152.4
37.5°	6876.1	6852.6	6864.3	6881.8	6939.8	7015.3	7084.8	7189.2	7258.9	7328.6	7392.4
40°	5367.3	5384.8	5431.1	5535.5	5686.4	5854.8	6011.5	6208.7	6406.0	6545.3	6672.8
42.5°	4050.2	4102.5	4218.3	4369.2	4595.7	4845.0	5088.9	5378.8	5616.9	5848.8	6011.5
45°	3046.3	3115.8	3266.8	3475.8	3725.1	4015.3	4322.9	4647.7	4932.2	5170.1	5349.9
47.5°	2373.3	2437.1	2588.0	2808.5	3115.8	3417.7	3736.8	4073.3	4369.2	4601.4	4758.1
50°	1874.1	1955.3	2088.8	2321.0	2628.6	2947.7	3278.5	3609.0	3887.8	4085.0	4224.3
52.5°	1473.8	1549.3	1676.9	1920.7	2234.1	2553.1	2860.5	3185.6	3429.2	3620.7	3713.6
55°	1143.1	1212.8	1346.1	1549.3	1845.2	2158.6	2466.0	2744.7	2970.9	3110.1	3197.3
57.5°	870.3	922.6	1015.5	1218.5	1485.6	1775.5	2036.8	2315.3	2489.4	2588.0	2645.8
60°	661.6	702.2	800.8	957.5	1201.1	1450.7	1671.1	1880.1	2019.3	2100.6	2158.6
62.5°	498.9	545.5	615.0	748.5	934.1	1137.3	1322.9	1479.6	1595.7	1648.0	1688.6
65°	342.3	377.1	429.4	533.8	690.5	835.4	980.7	1096.7	1172.2	1230.2	1253.4
67.5°	255.3	278.5	307.6	388.8	498.9	615.0	713.6	794.8	876.3	899.5	940.1
70°	191.5	209.0	237.9	295.9	359.7	440.9	522.3	568.7	626.7	667.3	679.0
72.5°	121.8	127.5	156.7	191.5	243.6	295.9	348.2	388.8	423.7	446.9	458.3
75°	69.7	104.4	104.4	139.2	174.1	197.3	232.1	261.0	278.5	295.9	295.9
77.5°	46.3	63.8	69.7	86.9	104.4	133.5	162.4	179.8	197.3	203.0	203.0
80°	40.6	46.3	46.3	63.8	75.5	98.6	116.1	121.8	133.5	139.2	150.9
82.5°	17.4	23.2	28.9	46.3	52.3	52.3	69.7	75.5	86.9	92.9	92.9
85°	5.7	11.7	11.7	17.4	28.9	34.9	40.6	46.3	52.3	52.3	58.0
87.5°	5.7	5.7	0.0	5.7	11.7	11.7	23.2	23.2	23.2	34.9	34.9
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: P248784

CATALOG NUMBER: LD8B200D010 ER8B200835 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	11883.5	11883.5	11883.5	11883.5	11883.5	11883.5	11883.5
2.5°	11779.1	11784.8	11761.7	11755.9	11744.2	11750.0	11761.7
5°	11564.4	11570.1	11546.9	11523.8	11523.8	11517.8	11523.8
7.5°	11361.1	11367.1	11332.2	11320.5	11297.4	11303.3	11303.3
10°	11158.1	11158.1	11106.1	11100.1	11082.6	11076.9	11076.9
12.5°	10960.8	10943.4	10902.8	10879.6	10891.3	10856.5	10856.5
15°	10786.7	10757.8	10705.5	10688.1	10659.2	10647.5	10647.5
17.5°	10606.9	10583.7	10537.4	10502.5	10467.6	10461.9	10467.6
20°	10432.8	10409.6	10351.6	10328.4	10299.5	10299.5	10287.8
22.5°	10258.7	10235.5	10183.4	10166.0	10125.4	10125.4	10131.1
25°	10078.8	10061.4	10003.4	9991.9	9986.2	9962.8	9974.5
27.5°	9835.2	9823.5	9777.2	9759.7	9736.6	9730.8	9742.3
30°	9388.4	9370.9	9336.3	9318.9	9278.3	9284.0	9295.4
32.5°	8831.4	8808.2	8761.7	8744.2	8709.6	8697.9	8703.6
35°	8135.2	8117.8	8077.2	8077.2	8042.3	8030.6	8042.3
37.5°	7427.3	7444.5	7427.3	7444.5	7427.3	7421.3	7427.3
40°	6760.0	6823.7	6835.2	6899.2	6876.1	6910.7	6904.9
42.5°	6121.6	6225.9	6266.8	6318.8	6307.4	6330.6	6348.0
45°	5477.4	5564.6	5605.2	5640.1	5645.8	5657.5	5663.2
47.5°	4868.2	4937.9	4943.6	4984.2	4978.5	4978.5	4995.9
50°	4299.7	4346.1	4357.5	4386.7	4363.5	4351.8	4357.5
52.5°	3771.7	3818.0	3806.3	3818.0	3789.1	3777.4	3783.1
55°	3231.9	3255.1	3255.1	3255.1	3220.4	3220.4	3220.4
57.5°	2680.7	2686.7	2674.9	2680.7	2674.9	2640.1	2634.3
60°	2176.0	2176.0	2170.1	2176.0	2158.6	2141.2	2141.2
62.5°	1700.0	1711.7	1734.9	1711.7	1700.0	1711.7	1694.3
65°	1270.8	1294.0	1288.0	1299.7	1294.0	1294.0	1282.3
67.5°	957.5	963.2	969.0	974.9	974.9	974.9	974.9
70°	702.2	719.6	713.6	713.6	713.6	713.6	748.5
72.5°	470.0	493.2	487.5	498.9	498.9	510.6	498.9
75°	319.1	342.3	330.8	348.2	342.3	330.8	359.7
77.5°	214.7	226.4	232.1	237.9	232.1	226.4	232.1
80°	150.9	162.4	156.7	162.4	162.4	162.4	168.4
82.5°	92.9	110.3	104.4	110.3	104.4	110.3	110.3
85°	63.8	69.7	58.0	69.7	63.8	63.8	75.5
87.5°	40.6	34.9	34.9	40.6	34.9	40.6	34.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)