

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: P248946

Luminaire Tested: **LD8B200D010 ER8B200940 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248946
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 8LBSW0B
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 4000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14719.0 lumens
Efficiency: N/A
Efficacy: 65.9 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

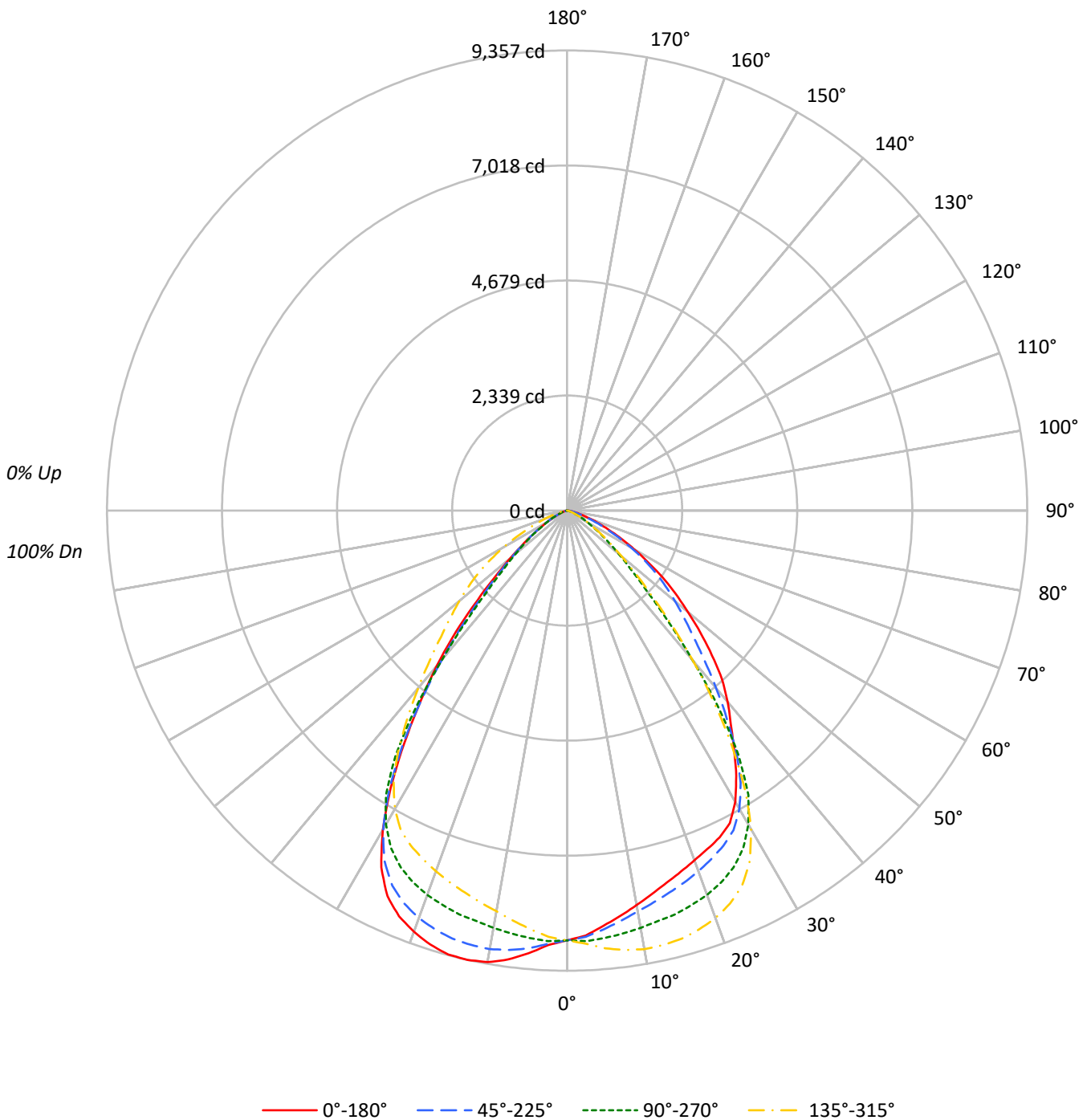
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P248946

CATALOG NUMBER: LD8B200D010 ER8B200940 8LBSW0B

Luminous Intensity Polar Plot





TEST NUMBER: P248946

CATALOG NUMBER: LD8B200D010 ER8B200940 8LBSW0B

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°	269454	269454	269454	269454
5°	262296	270087	279729	270087
10°	255039	269734	291913	269734
15°	249947	271336	298302	271336
20°	248245	272886	299069	272886
25°	249550	272339	294261	272339
30°	243379	262368	267086	262368
35°	222616	228877	217154	228877
40°	204385	159212	166261	159212
45°	181602	97126	112385	97126
50°	153714	64883	72050	64883
55°	127313	44273	46794	44273
60°	97097	29473	29732	29473
65°	68799	18365	16811	18365
70°	49624	12307	11162	12307
75°	31513	6112	5087	6112
80°	21984	4546	3782	4546
85°	19636	0	1486	0



TEST NUMBER: P248946

CATALOG NUMBER: LD8B200D010 ER8B200940 8LBSW0B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	831.7	5.7
10°-20°	2408.5	16.4
20°-30°	3647.0	24.8
30°-40°	3655.1	24.8
40°-50°	2295.2	15.6
50°-60°	1223.1	8.3
60°-70°	503.0	3.4
70°-80°	132.9	0.9
80°-90°	22.5	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°	6887.2	46.8
0°-40°	10542.3	71.6
0°-60°	14060.7	95.5
0°-90°	14719.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14719.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	8738	8738	8738	8738	8738	
5°	8474	8725	9037	8725	8474	799
15°	7829	8499	9344	8499	7829	2214
25°	7334	8004	8649	8004	7334	3364
35°	5914	6080	5769	6080	5914	3705
45°	4164	2227	2577	2227	4164	3203
55°	2368	824	870	824	2368	2111
65°	943	252	230	252	943	978
75°	264	51	43	51	264	300
85°	56	0	4	0	56	61
90°	0	0	0	0	0	



TEST NUMBER: P248946

CATALOG NUMBER: LD8B200D010 ER8B200940 8LBSW0B

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	8738.2	8738.2	8738.2	8738.2	8738.2	8738.2	8738.2	8738.2	8738.2	8738.2	8738.2
2.5°	8648.6	8640.0	8635.8	8644.4	8648.6	8665.7	8661.5	8669.9	8669.9	8674.3	8682.7
5°	8473.7	8469.3	8473.7	8473.7	8490.8	8507.8	8503.6	8516.4	8524.8	8546.3	8554.7
7.5°	8311.6	8311.6	8307.2	8324.3	8332.9	8358.5	8354.1	8375.5	8388.4	8409.6	8439.5
10°	8145.1	8145.1	8149.3	8162.2	8166.6	8204.8	8204.8	8234.7	8251.7	8273.2	8311.6
12.5°	7983.0	7983.0	8008.7	8000.1	8017.1	8047.0	8059.8	8089.6	8115.3	8158.0	8196.4
15°	7829.4	7829.4	7838.0	7859.2	7872.0	7910.5	7931.8	7966.0	7995.9	8038.5	8094.0
17.5°	7697.1	7692.9	7697.1	7722.8	7748.4	7782.5	7799.5	7842.2	7872.0	7927.5	7978.8
20°	7564.9	7573.5	7573.5	7594.7	7611.8	7654.4	7671.5	7718.5	7752.6	7803.7	7863.6
22.5°	7449.7	7445.5	7445.5	7475.3	7488.1	7526.4	7543.5	7586.1	7624.6	7667.3	7722.8
25°	7334.5	7325.9	7343.1	7347.3	7355.7	7398.4	7411.2	7441.1	7479.5	7518.0	7573.5
27.5°	7163.8	7155.3	7159.5	7176.6	7189.4	7223.5	7232.1	7261.9	7291.8	7325.9	7372.9
30°	6835.2	6826.7	6822.5	6852.4	6865.2	6890.7	6903.5	6954.8	6963.2	7001.7	7035.7
32.5°	6400.0	6395.8	6404.4	6429.8	6442.7	6476.9	6493.9	6523.8	6545.0	6566.5	6600.5
35°	5913.7	5905.1	5913.7	5939.3	5939.3	5969.2	5982.0	5994.7	5990.4	5994.7	5986.2
37.5°	5461.5	5457.1	5461.5	5474.1	5461.5	5474.1	5461.5	5435.8	5388.9	5337.7	5286.4
40°	5077.4	5081.6	5056.1	5073.2	5026.1	5017.7	4970.8	4906.7	4812.9	4710.5	4565.4
42.5°	4667.8	4655.0	4638.0	4646.4	4608.1	4578.1	4501.3	4420.4	4300.8	4130.3	3955.2
45°	4164.3	4160.1	4151.5	4147.3	4121.7	4091.8	4027.7	3933.9	3801.7	3626.8	3417.6
47.5°	3673.6	3660.8	3660.8	3665.0	3635.2	3631.0	3579.7	3498.7	3383.5	3212.8	2995.2
50°	3204.2	3200.0	3208.6	3225.6	3204.2	3195.8	3161.7	3106.2	3003.8	2858.8	2653.8
52.5°	2781.8	2777.6	2786.2	2807.5	2798.9	2807.5	2773.4	2730.7	2662.4	2521.6	2342.4
55°	2368.1	2368.1	2368.1	2393.5	2393.5	2393.5	2376.5	2351.0	2286.9	2184.6	2018.2
57.5°	1937.1	1941.3	1967.0	1971.2	1967.0	1975.6	1971.2	1945.5	1903.0	1830.5	1702.5
60°	1574.4	1574.4	1587.3	1600.1	1595.7	1600.1	1600.1	1587.3	1544.6	1484.9	1382.5
62.5°	1245.9	1258.7	1250.1	1258.7	1275.7	1258.7	1250.1	1241.6	1211.8	1173.3	1088.0
65°	942.9	951.5	951.5	955.7	947.1	951.5	934.5	921.7	904.6	861.9	806.5
67.5°	716.9	716.9	716.9	716.9	712.5	708.3	704.1	691.2	661.4	644.4	584.5
70°	550.4	524.8	524.8	524.8	524.8	529.1	516.3	499.3	490.7	460.8	418.2
72.5°	366.9	375.5	366.9	366.9	358.4	362.7	345.6	337.0	328.6	311.6	285.9
75°	264.5	243.2	251.7	256.1	243.2	251.7	234.6	217.6	217.6	204.8	192.0
77.5°	170.7	166.5	170.7	174.9	170.7	166.5	157.9	149.3	149.3	145.1	132.2
80°	123.8	119.4	119.4	119.4	115.2	119.4	111.0	111.0	102.4	98.2	89.6
82.5°	81.1	81.1	76.7	81.1	76.7	81.1	68.3	68.3	68.3	63.9	55.5
85°	55.5	46.9	46.9	51.3	42.7	51.3	46.9	42.7	38.5	38.5	34.1
87.5°	25.6	29.9	25.6	29.9	25.6	25.6	29.9	25.6	25.6	17.0	17.0
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: P248946

CATALOG NUMBER: LD8B200D010 ER8B200940 8LBSW0B

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	8738.2	8738.2	8738.2	8738.2	8738.2	8738.2	8738.2	8738.2	8738.2	8738.2	8738.2
2.5°	8695.5	8699.7	8699.7	8717.0	8725.4	8729.6	8729.6	8763.8	8751.0	8759.6	8768.1
5°	8571.9	8597.4	8606.0	8606.0	8652.9	8669.9	8686.9	8725.4	8729.6	8755.2	8785.1
7.5°	8452.3	8482.1	8499.4	8537.6	8567.5	8597.4	8648.6	8674.3	8699.7	8734.0	8772.3
10°	8337.1	8371.3	8405.4	8435.3	8482.1	8520.6	8554.7	8614.4	8644.4	8691.3	8742.4
12.5°	8226.3	8273.2	8303.0	8354.1	8405.4	8439.5	8490.8	8546.3	8593.1	8640.0	8699.7
15°	8128.1	8183.6	8217.7	8273.2	8328.7	8375.5	8431.0	8499.4	8533.4	8588.9	8644.4
17.5°	8021.3	8081.2	8123.9	8175.0	8243.3	8294.4	8341.5	8409.6	8452.3	8512.0	8576.1
20°	7910.5	7970.2	8021.3	8072.6	8140.9	8192.0	8247.5	8315.8	8362.7	8422.4	8473.7
22.5°	7778.3	7833.8	7889.1	7948.8	8017.1	8059.8	8123.9	8183.6	8234.7	8290.2	8341.5
25°	7607.6	7675.9	7718.5	7773.9	7829.4	7876.3	7944.6	8004.3	8047.0	8098.2	8145.1
27.5°	7407.0	7458.3	7492.3	7539.2	7594.7	7637.4	7688.5	7748.4	7791.1	7838.0	7872.0
30°	7065.6	7112.7	7142.5	7176.6	7232.1	7270.5	7313.2	7368.5	7398.4	7432.6	7462.5
32.5°	6617.6	6656.0	6673.1	6698.7	6737.2	6775.5	6809.7	6856.6	6869.4	6890.7	6890.7
35°	5969.2	5977.6	5973.4	5982.0	5999.0	6020.3	6050.1	6080.0	6097.0	6097.0	6084.4
37.5°	5209.6	5158.5	5103.0	5060.3	5047.5	5038.9	5056.1	5068.8	5086.0	5094.4	5073.2
40°	4420.4	4305.2	4181.4	4070.4	3993.6	3959.6	3946.7	3955.2	3955.2	3985.0	3985.0
42.5°	3742.0	3562.6	3379.3	3212.8	3101.8	3016.6	2978.2	2978.2	2982.4	3003.8	3016.6
45°	3178.7	2952.5	2739.2	2555.8	2402.1	2291.2	2240.0	2227.2	2223.0	2231.4	2261.3
47.5°	2747.8	2513.1	2291.2	2065.1	1903.0	1792.0	1745.1	1727.9	1710.9	1727.9	1732.3
50°	2410.8	2167.5	1932.9	1706.7	1536.0	1437.8	1378.1	1352.5	1348.2	1348.2	1356.8
52.5°	2103.4	1877.4	1642.8	1412.3	1233.0	1139.3	1083.8	1070.9	1053.9	1070.9	1070.9
55°	1813.3	1587.3	1356.8	1139.3	989.8	891.8	840.5	823.5	814.9	827.7	827.7
57.5°	1497.7	1305.6	1092.4	896.0	746.7	678.4	640.0	618.7	614.3	622.9	614.3
60°	1228.8	1066.7	883.2	704.1	588.9	516.3	486.5	477.9	469.3	477.9	477.9
62.5°	972.8	836.3	686.9	550.4	452.2	401.1	366.9	366.9	362.7	362.7	366.9
65°	721.1	614.3	507.7	392.5	315.8	277.3	251.7	251.7	247.5	251.7	247.5
67.5°	524.8	452.2	366.9	285.9	226.2	204.8	187.7	174.9	183.5	174.9	170.7
70°	384.1	324.2	264.5	217.6	174.9	153.7	140.8	136.5	128.0	128.0	128.0
72.5°	256.1	217.6	179.1	140.8	115.2	93.8	89.6	81.1	72.5	76.7	85.4
75°	170.7	145.1	128.0	102.4	76.7	76.7	51.3	51.3	42.7	51.3	38.5
77.5°	119.4	98.2	76.7	63.9	51.3	46.9	34.1	34.1	29.9	29.9	29.9
80°	85.4	72.5	55.5	46.9	34.1	34.1	29.9	25.6	21.3	21.3	25.6
82.5°	51.3	38.5	38.5	34.1	21.3	17.0	12.8	17.0	8.6	8.6	8.6
85°	29.9	25.6	21.3	12.8	8.6	8.6	4.2	0.0	4.2	4.2	0.0
87.5°	17.0	8.6	8.6	4.2	0.0	4.2	4.2	0.0	0.0	0.0	8.6
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: P248946

CATALOG NUMBER: LD8B200D010 ER8B200940 8LBSW0B

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	8738.2	8738.2	8738.2	8738.2	8738.2	8738.2	8738.2	8738.2	8738.2	8738.2	8738.2
2.5°	8789.5	8785.1	8793.7	8793.7	8819.3	8815.0	8827.8	8827.8	8819.3	8823.6	8840.6
5°	8819.3	8832.2	8857.6	8879.1	8917.3	8934.5	8955.8	8977.2	8981.4	8994.3	9007.1
7.5°	8819.3	8862.0	8891.9	8930.2	8981.4	9011.3	9058.2	9096.6	9113.7	9134.9	9160.6
10°	8802.1	8844.8	8900.3	8943.0	9007.1	9054.0	9100.9	9160.6	9186.2	9220.3	9254.5
12.5°	8768.1	8815.0	8874.7	8930.2	9002.7	9045.4	9105.1	9160.6	9199.0	9245.9	9284.4
15°	8717.0	8772.3	8827.8	8883.3	8960.0	9011.3	9066.8	9130.7	9169.2	9220.3	9254.5
17.5°	8635.8	8695.5	8746.8	8797.9	8870.4	8930.2	8981.4	9041.2	9079.6	9122.3	9169.2
20°	8537.6	8593.1	8648.6	8691.3	8763.8	8815.0	8870.4	8925.9	8955.8	8964.4	9036.9
22.5°	8414.0	8452.3	8495.0	8563.3	8606.0	8652.9	8704.1	8755.2	8785.1	8832.2	8857.6
25°	8209.1	8247.5	8294.4	8324.3	8375.5	8414.0	8465.1	8520.6	8537.6	8571.9	8597.4
27.5°	7923.3	7944.6	7966.0	7991.5	8021.3	8042.7	8072.6	8098.2	8115.3	8132.3	8149.3
30°	7470.9	7470.9	7470.9	7453.9	7466.7	7479.5	7483.7	7479.5	7479.5	7475.3	7475.3
32.5°	6873.6	6839.6	6801.1	6767.0	6754.2	6737.2	6728.6	6715.8	6694.5	6681.7	6685.9
35°	6067.2	5990.4	5943.5	5900.9	5866.8	5841.2	5828.3	5815.5	5811.3	5794.3	5777.1
37.5°	5060.3	5004.9	4970.8	4945.1	4915.3	4889.6	4893.9	4898.2	4910.9	4902.5	4906.7
40°	3993.6	3980.8	3993.6	3963.8	3955.2	3963.8	3985.0	4015.0	4032.1	4049.1	4079.0
42.5°	3037.9	3059.1	3089.2	3089.2	3101.8	3119.0	3144.5	3191.6	3217.0	3246.9	3281.1
45°	2286.9	2312.6	2351.0	2363.7	2372.3	2393.5	2423.6	2461.9	2478.9	2504.5	2534.4
47.5°	1762.2	1779.2	1800.5	1821.9	1843.1	1851.7	1881.6	1881.6	1903.0	1920.1	1928.5
50°	1373.9	1390.9	1408.0	1420.8	1429.4	1442.2	1450.6	1463.5	1467.7	1476.3	1480.5
52.5°	1075.2	1096.6	1096.6	1105.0	1117.8	1130.6	1126.4	1130.6	1134.9	1134.9	1147.7
55°	840.5	840.5	853.3	853.3	861.9	857.6	861.9	861.9	861.9	861.9	866.2
57.5°	627.1	631.5	644.4	635.7	631.5	640.0	631.5	640.0	635.7	644.4	631.5
60°	482.1	482.1	486.5	486.5	490.7	490.7	490.7	486.5	486.5	482.1	482.1
62.5°	362.7	366.9	371.3	366.9	366.9	366.9	362.7	362.7	358.4	354.1	354.1
65°	243.2	239.0	247.5	239.0	243.2	243.2	239.0	243.2	230.4	234.6	230.4
67.5°	174.9	170.7	166.5	170.7	166.5	162.1	162.1	166.5	170.7	157.9	157.9
70°	115.2	119.4	115.2	119.4	123.8	123.8	119.4	115.2	119.4	111.0	115.2
72.5°	72.5	72.5	72.5	72.5	72.5	76.7	76.7	76.7	68.3	68.3	63.9
75°	34.1	46.9	38.5	34.1	46.9	46.9	42.7	42.7	38.5	38.5	38.5
77.5°	34.1	25.6	25.6	25.6	25.6	25.6	25.6	25.6	21.3	25.6	21.3
80°	17.0	17.0	17.0	12.8	17.0	17.0	21.3	17.0	17.0	12.8	21.3
82.5°	8.6	8.6	8.6	0.0	4.2	8.6	8.6	4.2	8.6	8.6	4.2
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: P248946

CATALOG NUMBER: LD8B200D010 ER8B200940 8LBSW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	8738.2	8738.2	8738.2	8738.2	8738.2	8738.2	8738.2	8738.2	8738.2	8738.2	8738.2
2.5°	8836.4	8832.2	8836.4	8840.6	8836.4	8832.2	8836.4	8840.6	8823.6	8819.3	8827.8
5°	9024.1	9024.1	9032.5	9036.9	9032.5	9024.1	9024.1	9007.1	8994.3	8981.4	8977.2
7.5°	9186.2	9194.8	9203.2	9207.5	9203.2	9194.8	9186.2	9160.6	9134.9	9113.7	9096.6
10°	9284.4	9297.2	9314.2	9322.7	9314.2	9297.2	9284.4	9254.5	9220.3	9186.2	9160.6
12.5°	9327.1	9339.9	9361.1	9356.9	9361.1	9339.9	9327.1	9284.4	9245.9	9199.0	9160.6
15°	9297.2	9314.2	9335.5	9344.1	9335.5	9314.2	9297.2	9254.5	9220.3	9169.2	9130.7
17.5°	9203.2	9228.9	9241.7	9254.5	9241.7	9228.9	9203.2	9169.2	9122.3	9079.6	9041.2
20°	9075.2	9092.4	9109.5	9113.7	9109.5	9092.4	9075.2	9036.9	8964.4	8955.8	8925.9
22.5°	8891.9	8904.7	8943.0	8930.2	8943.0	8904.7	8891.9	8857.6	8832.2	8785.1	8755.2
25°	8627.2	8640.0	8644.4	8648.6	8644.4	8640.0	8627.2	8597.4	8571.9	8537.6	8520.6
27.5°	8170.8	8170.8	8179.2	8183.6	8179.2	8170.8	8170.8	8149.3	8132.3	8115.3	8098.2
30°	7479.5	7479.5	7479.5	7501.0	7479.5	7479.5	7479.5	7475.3	7475.3	7479.5	7479.5
32.5°	6681.7	6673.1	6664.6	6673.1	6664.6	6673.1	6681.7	6685.9	6681.7	6694.5	6715.8
35°	5777.1	5772.8	5785.7	5768.6	5785.7	5772.8	5777.1	5777.1	5794.3	5811.3	5815.5
37.5°	4910.9	4902.5	4919.5	4902.5	4919.5	4902.5	4910.9	4906.7	4902.5	4910.9	4898.2
40°	4087.6	4096.0	4096.0	4130.3	4096.0	4096.0	4087.6	4079.0	4049.1	4032.1	4015.0
42.5°	3298.2	3323.8	3315.2	3340.8	3315.2	3323.8	3298.2	3281.1	3246.9	3217.0	3191.6
45°	2551.4	2568.6	2568.6	2577.1	2568.6	2568.6	2551.4	2534.4	2504.5	2478.9	2461.9
47.5°	1958.4	1958.4	1958.4	1962.7	1958.4	1958.4	1958.4	1928.5	1920.1	1903.0	1881.6
50°	1489.1	1493.3	1497.7	1501.9	1497.7	1493.3	1489.1	1480.5	1476.3	1467.7	1463.5
52.5°	1143.5	1147.7	1139.3	1147.7	1139.3	1147.7	1143.5	1147.7	1134.9	1134.9	1130.6
55°	866.2	861.9	866.2	870.4	866.2	861.9	866.2	866.2	861.9	861.9	861.9
57.5°	635.7	627.1	627.1	627.1	627.1	627.1	635.7	631.5	644.4	635.7	640.0
60°	473.7	477.9	477.9	482.1	477.9	477.9	473.7	482.1	482.1	486.5	486.5
62.5°	349.8	362.7	354.1	362.7	354.1	362.7	349.8	354.1	354.1	358.4	362.7
65°	226.2	226.2	226.2	230.4	226.2	226.2	226.2	230.4	234.6	230.4	243.2
67.5°	153.7	157.9	166.5	162.1	166.5	157.9	153.7	157.9	157.9	170.7	166.5
70°	123.8	111.0	111.0	123.8	111.0	111.0	123.8	115.2	111.0	119.4	115.2
72.5°	72.5	63.9	72.5	72.5	72.5	63.9	72.5	63.9	68.3	68.3	76.7
75°	38.5	34.1	29.9	42.7	29.9	34.1	38.5	38.5	38.5	38.5	42.7
77.5°	25.6	21.3	29.9	29.9	29.9	21.3	25.6	21.3	25.6	21.3	25.6
80°	12.8	17.0	12.8	21.3	12.8	17.0	12.8	21.3	12.8	17.0	17.0
82.5°	4.2	8.6	8.6	8.6	8.6	8.6	4.2	4.2	8.6	8.6	4.2
85°	0.0	8.6	4.2	4.2	4.2	8.6	0.0	0.0	0.0	0.0	0.0
87.5°	4.2	0.0	0.0	4.2	0.0	0.0	4.2	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: P248946

CATALOG NUMBER: LD8B200D010 ER8B200940 8LBSW0B

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	8738.2	8738.2	8738.2	8738.2	8738.2	8738.2	8738.2	8738.2	8738.2	8738.2	8738.2
2.5°	8827.8	8815.0	8819.3	8793.7	8793.7	8785.1	8789.5	8768.1	8759.6	8751.0	8763.8
5°	8955.8	8934.5	8917.3	8879.1	8857.6	8832.2	8819.3	8785.1	8755.2	8729.6	8725.4
7.5°	9058.2	9011.3	8981.4	8930.2	8891.9	8862.0	8819.3	8772.3	8734.0	8699.7	8674.3
10°	9100.9	9054.0	9007.1	8943.0	8900.3	8844.8	8802.1	8742.4	8691.3	8644.4	8614.4
12.5°	9105.1	9045.4	9002.7	8930.2	8874.7	8815.0	8768.1	8699.7	8640.0	8593.1	8546.3
15°	9066.8	9011.3	8960.0	8883.3	8827.8	8772.3	8717.0	8644.4	8588.9	8533.4	8499.4
17.5°	8981.4	8930.2	8870.4	8797.9	8746.8	8695.5	8635.8	8576.1	8512.0	8452.3	8409.6
20°	8870.4	8815.0	8763.8	8691.3	8648.6	8593.1	8537.6	8473.7	8422.4	8362.7	8315.8
22.5°	8704.1	8652.9	8606.0	8563.3	8495.0	8452.3	8414.0	8341.5	8290.2	8234.7	8183.6
25°	8465.1	8414.0	8375.5	8324.3	8294.4	8247.5	8209.1	8145.1	8098.2	8047.0	8004.3
27.5°	8072.6	8042.7	8021.3	7991.5	7966.0	7944.6	7923.3	7872.0	7838.0	7791.1	7748.4
30°	7483.7	7479.5	7466.7	7453.9	7470.9	7470.9	7470.9	7462.5	7432.6	7398.4	7368.5
32.5°	6728.6	6737.2	6754.2	6767.0	6801.1	6839.6	6873.6	6890.7	6890.7	6869.4	6856.6
35°	5828.3	5841.2	5866.8	5900.9	5943.5	5990.4	6067.2	6084.4	6097.0	6097.0	6080.0
37.5°	4893.9	4889.6	4915.3	4945.1	4970.8	5004.9	5060.3	5073.2	5094.4	5086.0	5068.8
40°	3985.0	3963.8	3955.2	3963.8	3993.6	3980.8	3993.6	3985.0	3985.0	3955.2	3955.2
42.5°	3144.5	3119.0	3101.8	3089.2	3089.2	3059.1	3037.9	3016.6	3003.8	2982.4	2978.2
45°	2423.6	2393.5	2372.3	2363.7	2351.0	2312.6	2286.9	2261.3	2231.4	2223.0	2227.2
47.5°	1881.6	1851.7	1843.1	1821.9	1800.5	1779.2	1762.2	1732.3	1727.9	1710.9	1727.9
50°	1450.6	1442.2	1429.4	1420.8	1408.0	1390.9	1373.9	1356.8	1348.2	1348.2	1352.5
52.5°	1126.4	1130.6	1117.8	1105.0	1096.6	1096.6	1075.2	1070.9	1070.9	1053.9	1070.9
55°	861.9	857.6	861.9	853.3	853.3	840.5	840.5	827.7	827.7	814.9	823.5
57.5°	631.5	640.0	631.5	635.7	644.4	631.5	627.1	614.3	622.9	614.3	618.7
60°	490.7	490.7	490.7	486.5	486.5	482.1	482.1	477.9	477.9	469.3	477.9
62.5°	362.7	366.9	366.9	366.9	371.3	366.9	362.7	366.9	362.7	362.7	366.9
65°	239.0	243.2	243.2	239.0	247.5	239.0	243.2	247.5	251.7	247.5	251.7
67.5°	162.1	162.1	166.5	170.7	166.5	170.7	174.9	170.7	174.9	183.5	174.9
70°	119.4	123.8	123.8	119.4	115.2	119.4	115.2	128.0	128.0	128.0	136.5
72.5°	76.7	76.7	72.5	72.5	72.5	72.5	72.5	85.4	76.7	72.5	81.1
75°	42.7	46.9	46.9	34.1	38.5	46.9	34.1	38.5	51.3	42.7	51.3
77.5°	25.6	25.6	25.6	25.6	25.6	25.6	34.1	29.9	29.9	29.9	34.1
80°	21.3	17.0	17.0	12.8	17.0	17.0	17.0	25.6	21.3	21.3	25.6
82.5°	8.6	8.6	4.2	0.0	8.6	8.6	8.6	8.6	8.6	8.6	17.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	4.2	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6	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: P248946

CATALOG NUMBER: LD8B200D010 ER8B200940 8LBSW0B

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	8738.2	8738.2	8738.2	8738.2	8738.2	8738.2	8738.2	8738.2	8738.2	8738.2	8738.2
2.5°	8729.6	8729.6	8725.4	8717.0	8699.7	8699.7	8695.5	8682.7	8674.3	8669.9	8669.9
5°	8686.9	8669.9	8652.9	8606.0	8606.0	8597.4	8571.9	8554.7	8546.3	8524.8	8516.4
7.5°	8648.6	8597.4	8567.5	8537.6	8499.4	8482.1	8452.3	8439.5	8409.6	8388.4	8375.5
10°	8554.7	8520.6	8482.1	8435.3	8405.4	8371.3	8337.1	8311.6	8273.2	8251.7	8234.7
12.5°	8490.8	8439.5	8405.4	8354.1	8303.0	8273.2	8226.3	8196.4	8158.0	8115.3	8089.6
15°	8431.0	8375.5	8328.7	8273.2	8217.7	8183.6	8128.1	8094.0	8038.5	7995.9	7966.0
17.5°	8341.5	8294.4	8243.3	8175.0	8123.9	8081.2	8021.3	7978.8	7927.5	7872.0	7842.2
20°	8247.5	8192.0	8140.9	8072.6	8021.3	7970.2	7910.5	7863.6	7803.7	7752.6	7718.5
22.5°	8123.9	8059.8	8017.1	7948.8	7889.1	7833.8	7778.3	7722.8	7667.3	7624.6	7586.1
25°	7944.6	7876.3	7829.4	7773.9	7718.5	7675.9	7607.6	7573.5	7518.0	7479.5	7441.1
27.5°	7688.5	7637.4	7594.7	7539.2	7492.3	7458.3	7407.0	7372.9	7325.9	7291.8	7261.9
30°	7313.2	7270.5	7232.1	7176.6	7142.5	7112.7	7065.6	7035.7	7001.7	6963.2	6954.8
32.5°	6809.7	6775.5	6737.2	6698.7	6673.1	6656.0	6617.6	6600.5	6566.5	6545.0	6523.8
35°	6050.1	6020.3	5999.0	5982.0	5973.4	5977.6	5969.2	5986.2	5994.7	5990.4	5994.7
37.5°	5056.1	5038.9	5047.5	5060.3	5103.0	5158.5	5209.6	5286.4	5337.7	5388.9	5435.8
40°	3946.7	3959.6	3993.6	4070.4	4181.4	4305.2	4420.4	4565.4	4710.5	4812.9	4906.7
42.5°	2978.2	3016.6	3101.8	3212.8	3379.3	3562.6	3742.0	3955.2	4130.3	4300.8	4420.4
45°	2240.0	2291.2	2402.1	2555.8	2739.2	2952.5	3178.7	3417.6	3626.8	3801.7	3933.9
47.5°	1745.1	1792.0	1903.0	2065.1	2291.2	2513.1	2747.8	2995.2	3212.8	3383.5	3498.7
50°	1378.1	1437.8	1536.0	1706.7	1932.9	2167.5	2410.8	2653.8	2858.8	3003.8	3106.2
52.5°	1083.8	1139.3	1233.0	1412.3	1642.8	1877.4	2103.4	2342.4	2521.6	2662.4	2730.7
55°	840.5	891.8	989.8	1139.3	1356.8	1587.3	1813.3	2018.2	2184.6	2286.9	2351.0
57.5°	640.0	678.4	746.7	896.0	1092.4	1305.6	1497.7	1702.5	1830.5	1903.0	1945.5
60°	486.5	516.3	588.9	704.1	883.2	1066.7	1228.8	1382.5	1484.9	1544.6	1587.3
62.5°	366.9	401.1	452.2	550.4	686.9	836.3	972.8	1088.0	1173.3	1211.8	1241.6
65°	251.7	277.3	315.8	392.5	507.7	614.3	721.1	806.5	861.9	904.6	921.7
67.5°	187.7	204.8	226.2	285.9	366.9	452.2	524.8	584.5	644.4	661.4	691.2
70°	140.8	153.7	174.9	217.6	264.5	324.2	384.1	418.2	460.8	490.7	499.3
72.5°	89.6	93.8	115.2	140.8	179.1	217.6	256.1	285.9	311.6	328.6	337.0
75°	51.3	76.7	76.7	102.4	128.0	145.1	170.7	192.0	204.8	217.6	217.6
77.5°	34.1	46.9	51.3	63.9	76.7	98.2	119.4	132.2	145.1	149.3	149.3
80°	29.9	34.1	34.1	46.9	55.5	72.5	85.4	89.6	98.2	102.4	111.0
82.5°	12.8	17.0	21.3	34.1	38.5	38.5	51.3	55.5	63.9	68.3	68.3
85°	4.2	8.6	8.6	12.8	21.3	25.6	29.9	34.1	38.5	38.5	42.7
87.5°	4.2	4.2	0.0	4.2	8.6	8.6	17.0	17.0	17.0	25.6	25.6
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: P248946

CATALOG NUMBER: LD8B200D010 ER8B200940 8LBSW0B

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	8738.2	8738.2	8738.2	8738.2	8738.2	8738.2	8738.2
2.5°	8661.5	8665.7	8648.6	8644.4	8635.8	8640.0	8648.6
5°	8503.6	8507.8	8490.8	8473.7	8473.7	8469.3	8473.7
7.5°	8354.1	8358.5	8332.9	8324.3	8307.2	8311.6	8311.6
10°	8204.8	8204.8	8166.6	8162.2	8149.3	8145.1	8145.1
12.5°	8059.8	8047.0	8017.1	8000.1	8008.7	7983.0	7983.0
15°	7931.8	7910.5	7872.0	7859.2	7838.0	7829.4	7829.4
17.5°	7799.5	7782.5	7748.4	7722.8	7697.1	7692.9	7697.1
20°	7671.5	7654.4	7611.8	7594.7	7573.5	7573.5	7564.9
22.5°	7543.5	7526.4	7488.1	7475.3	7445.5	7445.5	7449.7
25°	7411.2	7398.4	7355.7	7347.3	7343.1	7325.9	7334.5
27.5°	7232.1	7223.5	7189.4	7176.6	7159.5	7155.3	7163.8
30°	6903.5	6890.7	6865.2	6852.4	6822.5	6826.7	6835.2
32.5°	6493.9	6476.9	6442.7	6429.8	6404.4	6395.8	6400.0
35°	5982.0	5969.2	5939.3	5939.3	5913.7	5905.1	5913.7
37.5°	5461.5	5474.1	5461.5	5474.1	5461.5	5457.1	5461.5
40°	4970.8	5017.7	5026.1	5073.2	5056.1	5081.6	5077.4
42.5°	4501.3	4578.1	4608.1	4646.4	4638.0	4655.0	4667.8
45°	4027.7	4091.8	4121.7	4147.3	4151.5	4160.1	4164.3
47.5°	3579.7	3631.0	3635.2	3665.0	3660.8	3660.8	3673.6
50°	3161.7	3195.8	3204.2	3225.6	3208.6	3200.0	3204.2
52.5°	2773.4	2807.5	2798.9	2807.5	2786.2	2777.6	2781.8
55°	2376.5	2393.5	2393.5	2393.5	2368.1	2368.1	2368.1
57.5°	1971.2	1975.6	1967.0	1971.2	1967.0	1941.3	1937.1
60°	1600.1	1600.1	1595.7	1600.1	1587.3	1574.4	1574.4
62.5°	1250.1	1258.7	1275.7	1258.7	1250.1	1258.7	1245.9
65°	934.5	951.5	947.1	955.7	951.5	951.5	942.9
67.5°	704.1	708.3	712.5	716.9	716.9	716.9	716.9
70°	516.3	529.1	524.8	524.8	524.8	524.8	550.4
72.5°	345.6	362.7	358.4	366.9	366.9	375.5	366.9
75°	234.6	251.7	243.2	256.1	251.7	243.2	264.5
77.5°	157.9	166.5	170.7	174.9	170.7	166.5	170.7
80°	111.0	119.4	115.2	119.4	119.4	119.4	123.8
82.5°	68.3	81.1	76.7	81.1	76.7	81.1	81.1
85°	46.9	51.3	42.7	51.3	46.9	46.9	55.5
87.5°	29.9	25.6	25.6	29.9	25.6	29.9	25.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)