

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: P248865

Luminaire Tested: **LD8B200D010 ER8B2009730 8LBSW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248865
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 ER8B2009730 8LBSW0GPH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14745.0 lumens
Efficiency: N/A
Efficacy: 66.0 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

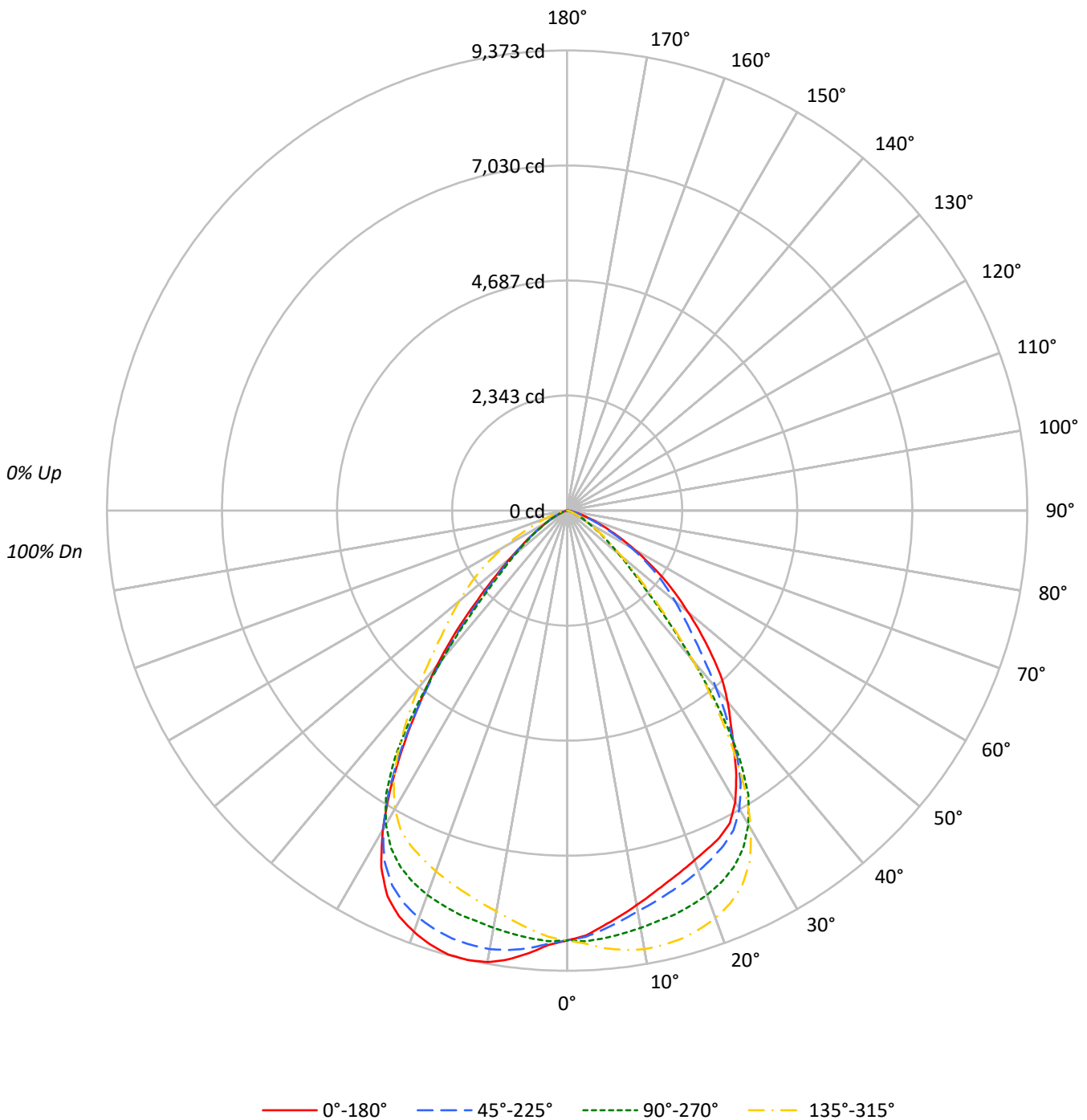
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	100	100			
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90	90	90	90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81	81	81	81			
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72	72	72	72			
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65	65	65	65			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58	58	58	58			
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53	53	53	53			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48	48	48	48			
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44	44	44	44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40	40	40	40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37	37	37	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°	833.2	5.7
10°-20°	2412.7	16.4
20°-30°	3653.4	24.8
30°-40°	3661.6	24.8
40°-50°	2299.3	15.6
50°-60°	1225.3	8.3
60°-70°	503.9	3.4
70°-80°	133.1	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°	6899.3	46.8
0°-40°	10560.9	71.6
0°-60°	14085.5	95.5
0°-90°	14745.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14745.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	8754	8754	8754	8754	8754	
5°	8489	8741	9053	8741	8489	801
15°	7843	8514	9361	8514	7843	2218
25°	7347	8018	8664	8018	7347	3370
35°	5924	6091	5779	6091	5924	3711
45°	4172	2231	2582	2231	4172	3208
55°	2372	825	872	825	2372	2115
65°	945	252	231	252	945	980
75°	265	51	43	51	265	300
85°	56	0	4	0	56	61
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°	8753.6	8753.6	8753.6	8753.6	8753.6	8753.6	8753.6	8753.6	8753.6	8753.6	8753.6
2.5°	8663.9	8655.3	8651.1	8659.7	8663.9	8681.0	8676.8	8685.2	8685.2	8689.6	8698.0
5°	8488.7	8484.3	8488.7	8488.7	8505.8	8522.8	8518.6	8531.4	8539.9	8561.3	8569.8
7.5°	8326.3	8326.3	8321.9	8339.0	8347.6	8373.3	8368.9	8390.3	8403.2	8424.5	8454.4
10°	8159.5	8159.5	8163.7	8176.6	8181.0	8219.3	8219.3	8249.2	8266.3	8287.8	8326.3
12.5°	7997.1	7997.1	8022.8	8014.2	8031.3	8061.2	8074.0	8103.9	8129.6	8172.4	8210.9
15°	7843.2	7843.2	7851.8	7873.1	7885.9	7924.5	7945.8	7980.1	8010.0	8052.7	8108.3
17.5°	7710.7	7706.5	7710.7	7736.4	7762.1	7796.2	7813.3	7856.0	7885.9	7941.5	7992.9
20°	7578.2	7586.9	7586.9	7608.2	7625.2	7668.0	7685.0	7732.2	7766.3	7817.5	7877.5
22.5°	7462.8	7458.6	7458.6	7488.5	7501.4	7539.7	7556.8	7599.5	7638.1	7680.8	7736.4
25°	7347.4	7338.8	7356.0	7360.3	7368.7	7411.5	7424.3	7454.2	7492.7	7531.3	7586.9
27.5°	7176.4	7168.0	7172.2	7189.3	7202.1	7236.2	7244.9	7274.8	7304.7	7338.8	7385.9
30°	6847.2	6838.8	6834.6	6864.5	6877.3	6902.8	6915.7	6967.1	6975.5	7014.0	7048.2
32.5°	6411.3	6407.1	6415.7	6441.2	6454.0	6488.3	6505.4	6535.3	6556.6	6578.1	6612.2
35°	5924.1	5915.5	5924.1	5949.8	5949.8	5979.7	5992.6	6005.2	6001.0	6005.2	5996.8
37.5°	5471.1	5466.7	5471.1	5483.8	5471.1	5483.8	5471.1	5445.4	5398.5	5347.1	5295.7
40°	5086.4	5090.6	5065.1	5082.1	5035.0	5026.5	4979.6	4915.3	4821.4	4718.8	4573.5
42.5°	4676.1	4663.2	4646.2	4654.6	4616.3	4586.2	4509.3	4428.2	4308.4	4137.6	3962.1
45°	4171.7	4167.5	4158.8	4154.6	4128.9	4099.0	4034.8	3940.9	3808.4	3633.2	3423.6
47.5°	3680.1	3667.3	3667.3	3671.5	3641.6	3637.4	3586.0	3504.9	3389.5	3218.5	3000.5
50°	3209.9	3205.6	3214.3	3231.3	3209.9	3201.4	3167.3	3111.7	3009.1	2863.8	2658.5
52.5°	2786.8	2782.5	2791.2	2812.4	2803.8	2812.4	2778.3	2735.6	2667.1	2526.0	2346.6
55°	2372.3	2372.3	2372.3	2397.8	2397.8	2397.8	2380.7	2355.2	2291.0	2188.4	2021.8
57.5°	1940.5	1944.7	1970.4	1974.7	1970.4	1979.1	1974.7	1949.0	1906.4	1833.7	1705.5
60°	1577.2	1577.2	1590.1	1602.9	1598.5	1602.9	1602.9	1590.1	1547.3	1487.5	1384.9
62.5°	1248.1	1260.9	1252.3	1260.9	1278.0	1260.9	1252.3	1243.8	1213.9	1175.4	1089.9
65°	944.6	953.2	953.2	957.4	948.8	953.2	936.1	923.3	906.2	863.5	807.9
67.5°	718.2	718.2	718.2	718.2	713.8	709.5	705.3	692.5	662.6	645.5	585.5
70°	551.4	525.7	525.7	525.7	525.7	530.1	517.2	500.2	491.6	461.6	418.9
72.5°	367.5	376.1	367.5	367.5	359.1	363.3	346.2	337.6	329.2	312.1	286.4
75°	265.0	243.7	252.1	256.5	243.7	252.1	235.0	218.0	218.0	205.1	192.3
77.5°	171.0	166.8	171.0	175.2	171.0	166.8	158.2	149.5	149.5	145.3	132.5
80°	124.0	119.6	119.6	119.6	115.4	119.6	111.2	111.2	102.6	98.3	89.7
82.5°	81.3	81.3	76.9	81.3	76.9	81.3	68.4	68.4	68.4	64.0	55.6
85°	55.6	47.0	47.0	51.4	42.8	51.4	47.0	42.8	38.5	38.5	34.1
87.5°	25.7	29.9	25.7	29.9	25.7	25.7	29.9	25.7	25.7	17.1	17.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	8753.6	8753.6	8753.6	8753.6	8753.6	8753.6	8753.6	8753.6	8753.6	8753.6	8753.6
2.5°	8710.9	8715.1	8715.1	8732.4	8740.8	8745.0	8745.0	8779.3	8766.5	8775.1	8783.5
5°	8587.0	8612.5	8621.2	8621.2	8668.1	8685.2	8702.3	8740.8	8745.0	8770.7	8800.6
7.5°	8467.2	8497.1	8514.4	8552.7	8582.6	8612.5	8663.9	8689.6	8715.1	8749.4	8787.8
10°	8351.8	8386.1	8420.2	8450.2	8497.1	8535.7	8569.8	8629.6	8659.7	8706.7	8757.9
12.5°	8240.8	8287.8	8317.7	8368.9	8420.2	8454.4	8505.8	8561.3	8608.3	8655.3	8715.1
15°	8142.5	8198.0	8232.2	8287.8	8343.4	8390.3	8445.9	8514.4	8548.5	8604.1	8659.7
17.5°	8035.5	8095.5	8138.2	8189.4	8257.9	8309.1	8356.2	8424.5	8467.2	8527.0	8591.3
20°	7924.5	7984.3	8035.5	8086.9	8155.3	8206.5	8262.1	8330.5	8377.5	8437.3	8488.7
22.5°	7792.0	7847.6	7903.0	7962.8	8031.3	8074.0	8138.2	8198.0	8249.2	8304.8	8356.2
25°	7621.0	7689.4	7732.2	7787.6	7843.2	7890.2	7958.6	8018.4	8061.2	8112.5	8159.5
27.5°	7420.1	7471.5	7505.6	7552.6	7608.2	7650.9	7702.1	7762.1	7804.8	7851.8	7885.9
30°	7078.1	7125.2	7155.1	7189.3	7244.9	7283.4	7326.1	7381.6	7411.5	7445.8	7475.7
32.5°	6629.3	6667.8	6684.9	6710.5	6749.1	6787.4	6821.7	6868.7	6881.6	6902.8	6902.8
35°	5979.7	5988.2	5984.0	5992.6	6009.6	6030.9	6060.8	6090.7	6107.8	6107.8	6095.1
37.5°	5218.8	5167.6	5112.0	5069.3	5056.4	5047.8	5065.1	5077.7	5095.0	5103.4	5082.1
40°	4428.2	4312.8	4188.7	4077.6	4000.7	3966.5	3953.7	3962.1	3962.1	3992.1	3992.1
42.5°	3748.6	3568.9	3385.3	3218.5	3107.3	3022.0	2983.4	2983.4	2987.7	3009.1	3022.0
45°	3184.4	2957.8	2744.0	2560.3	2406.4	2295.2	2244.0	2231.2	2226.9	2235.4	2265.3
47.5°	2752.6	2517.6	2295.2	2068.8	1906.4	1795.2	1748.2	1731.0	1713.9	1731.0	1735.4
50°	2415.0	2171.3	1936.3	1709.7	1538.7	1440.3	1380.5	1354.8	1350.6	1350.6	1359.2
52.5°	2107.1	1880.7	1645.7	1414.8	1235.2	1141.3	1085.7	1072.8	1055.8	1072.8	1072.8
55°	1816.5	1590.1	1359.2	1141.3	991.5	893.4	842.0	824.9	816.3	829.2	829.2
57.5°	1500.3	1307.9	1094.3	897.6	748.1	679.6	641.1	619.8	615.4	624.0	615.4
60°	1231.0	1068.6	884.8	705.3	589.9	517.2	487.3	478.7	470.1	478.7	478.7
62.5°	974.5	837.8	688.1	551.4	453.0	401.8	367.5	367.5	363.3	363.3	367.5
65°	722.4	615.4	508.6	393.2	316.3	277.8	252.1	252.1	247.9	252.1	247.9
67.5°	525.7	453.0	367.5	286.4	226.6	205.1	188.1	175.2	183.8	175.2	171.0
70°	384.8	324.8	265.0	218.0	175.2	153.9	141.1	136.7	128.3	128.3	128.3
72.5°	256.5	218.0	179.4	141.1	115.4	93.9	89.7	81.3	72.7	76.9	85.5
75°	171.0	145.3	128.3	102.6	76.9	76.9	51.4	51.4	42.8	51.4	38.5
77.5°	119.6	98.3	76.9	64.0	51.4	47.0	34.1	34.1	29.9	29.9	29.9
80°	85.5	72.7	55.6	47.0	34.1	34.1	29.9	25.7	21.3	21.3	25.7
82.5°	51.4	38.5	38.5	34.1	21.3	17.1	12.8	17.1	8.6	8.6	8.6
85°	29.9	25.7	21.3	12.8	8.6	8.6	4.2	0.0	4.2	4.2	0.0
87.5°	17.1	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



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	8753.6	8753.6	8753.6	8753.6	8753.6	8753.6	8753.6	8753.6	8753.6	8753.6	8753.6
2.5°	8805.0	8800.6	8809.2	8809.2	8834.9	8830.5	8843.4	8843.4	8834.9	8839.1	8856.2
5°	8834.9	8847.8	8873.3	8894.7	8933.1	8950.3	8971.6	8993.1	8997.3	9010.1	9023.0
7.5°	8834.9	8877.7	8907.6	8945.9	8997.3	9027.2	9074.2	9112.7	9129.8	9151.1	9176.8
10°	8817.7	8860.4	8916.0	8958.8	9023.0	9070.0	9116.9	9176.8	9202.4	9236.6	9270.9
12.5°	8783.5	8830.5	8890.3	8945.9	9018.6	9061.3	9121.2	9176.8	9215.3	9262.3	9300.8
15°	8732.4	8787.8	8843.4	8899.0	8975.8	9027.2	9082.8	9146.8	9185.4	9236.6	9270.9
17.5°	8651.1	8710.9	8762.3	8813.5	8886.1	8945.9	8997.3	9057.1	9095.7	9138.4	9185.4
20°	8552.7	8608.3	8663.9	8706.7	8779.3	8830.5	8886.1	8941.7	8971.6	8980.2	9052.9
22.5°	8428.9	8467.2	8510.0	8578.4	8621.2	8668.1	8719.5	8770.7	8800.6	8847.8	8873.3
25°	8223.6	8262.1	8309.1	8339.0	8390.3	8428.9	8480.1	8535.7	8552.7	8587.0	8612.5
27.5°	7937.3	7958.6	7980.1	8005.6	8035.5	8057.0	8086.9	8112.5	8129.6	8146.7	8163.7
30°	7484.1	7484.1	7484.1	7467.1	7479.9	7492.7	7497.0	7492.7	7492.7	7488.5	7488.5
32.5°	6885.8	6851.6	6813.1	6779.0	6766.1	6749.1	6740.5	6727.6	6706.3	6693.5	6697.7
35°	6077.9	6001.0	5954.0	5911.3	5877.2	5851.5	5838.6	5825.8	5821.6	5804.5	5787.3
37.5°	5069.3	5013.7	4979.6	4953.9	4924.0	4898.3	4902.5	4906.9	4919.6	4911.1	4915.3
40°	4000.7	3987.8	4000.7	3970.8	3962.1	3970.8	3992.1	4022.1	4039.2	4056.3	4086.2
42.5°	3043.3	3064.5	3094.6	3094.6	3107.3	3124.5	3150.1	3197.2	3222.7	3252.6	3286.9
45°	2291.0	2316.7	2355.2	2367.9	2376.5	2397.8	2427.9	2466.2	2483.3	2509.0	2538.9
47.5°	1765.3	1782.4	1803.6	1825.1	1846.4	1855.0	1884.9	1884.9	1906.4	1923.5	1931.9
50°	1376.3	1393.4	1410.4	1423.3	1431.9	1444.7	1453.2	1466.0	1470.3	1478.9	1483.1
52.5°	1077.1	1098.5	1098.5	1107.0	1119.8	1132.6	1128.4	1132.6	1136.9	1136.9	1149.7
55°	842.0	842.0	854.9	854.9	863.5	859.1	863.5	863.5	863.5	863.5	867.7
57.5°	628.3	632.6	645.5	636.9	632.6	641.1	632.6	641.1	636.9	645.5	632.6
60°	482.9	482.9	487.3	487.3	491.6	491.6	491.6	487.3	487.3	482.9	482.9
62.5°	363.3	367.5	371.9	367.5	367.5	367.5	363.3	363.3	359.1	354.7	354.7
65°	243.7	239.4	247.9	239.4	243.7	243.7	239.4	243.7	230.8	235.0	230.8
67.5°	175.2	171.0	166.8	171.0	166.8	162.4	162.4	166.8	171.0	158.2	158.2
70°	115.4	119.6	115.4	119.6	124.0	124.0	119.6	115.4	119.6	111.2	115.4
72.5°	72.7	72.7	72.7	72.7	72.7	76.9	76.9	76.9	68.4	68.4	64.0
75°	34.1	47.0	38.5	34.1	47.0	47.0	42.8	42.8	38.5	38.5	38.5
77.5°	34.1	25.7	25.7	25.7	25.7	25.7	25.7	25.7	21.3	25.7	21.3
80°	17.1	17.1	17.1	12.8	17.1	17.1	21.3	17.1	17.1	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: P248865

CATALOG NUMBER: LD8B200D010 ER8B2009730 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	8753.6	8753.6	8753.6	8753.6	8753.6	8753.6	8753.6	8753.6	8753.6	8753.6	8753.6
2.5°	8852.0	8847.8	8852.0	8856.2	8852.0	8847.8	8852.0	8856.2	8839.1	8834.9	8843.4
5°	9040.1	9040.1	9048.5	9052.9	9048.5	9040.1	9040.1	9023.0	9010.1	8997.3	8993.1
7.5°	9202.4	9211.1	9219.5	9223.7	9219.5	9211.1	9202.4	9176.8	9151.1	9129.8	9112.7
10°	9300.8	9313.6	9330.7	9339.1	9330.7	9313.6	9300.8	9270.9	9236.6	9202.4	9176.8
12.5°	9343.5	9356.4	9377.7	9373.4	9377.7	9356.4	9343.5	9300.8	9262.3	9215.3	9176.8
15°	9313.6	9330.7	9352.0	9360.6	9352.0	9330.7	9313.6	9270.9	9236.6	9185.4	9146.8
17.5°	9219.5	9245.2	9258.0	9270.9	9258.0	9245.2	9219.5	9185.4	9138.4	9095.7	9057.1
20°	9091.3	9108.5	9125.6	9129.8	9125.6	9108.5	9091.3	9052.9	8980.2	8971.6	8941.7
22.5°	8907.6	8920.4	8958.8	8945.9	8958.8	8920.4	8907.6	8873.3	8847.8	8800.6	8770.7
25°	8642.5	8655.3	8659.7	8663.9	8659.7	8655.3	8642.5	8612.5	8587.0	8552.7	8535.7
27.5°	8185.2	8185.2	8193.7	8198.0	8193.7	8185.2	8185.2	8163.7	8146.7	8129.6	8112.5
30°	7492.7	7492.7	7492.7	7514.2	7492.7	7492.7	7492.7	7488.5	7488.5	7492.7	7492.7
32.5°	6693.5	6684.9	6676.4	6684.9	6676.4	6684.9	6693.5	6697.7	6693.5	6706.3	6727.6
35°	5787.3	5783.0	5795.9	5778.8	5795.9	5783.0	5787.3	5787.3	5804.5	5821.6	5825.8
37.5°	4919.6	4911.1	4928.2	4911.1	4928.2	4911.1	4919.6	4915.3	4911.1	4919.6	4906.9
40°	4094.8	4103.2	4103.2	4137.6	4103.2	4103.2	4094.8	4086.2	4056.3	4039.2	4022.1
42.5°	3304.0	3329.7	3321.1	3346.7	3321.1	3329.7	3304.0	3286.9	3252.6	3222.7	3197.2
45°	2555.9	2573.2	2573.2	2581.6	2573.2	2573.2	2555.9	2538.9	2509.0	2483.3	2466.2
47.5°	1961.8	1961.8	1961.8	1966.2	1961.8	1961.8	1961.8	1931.9	1923.5	1906.4	1884.9
50°	1491.7	1495.9	1500.3	1504.6	1500.3	1495.9	1491.7	1483.1	1478.9	1470.3	1466.0
52.5°	1145.5	1149.7	1141.3	1149.7	1141.3	1149.7	1145.5	1149.7	1136.9	1136.9	1132.6
55°	867.7	863.5	867.7	871.9	867.7	863.5	867.7	867.7	863.5	863.5	863.5
57.5°	636.9	628.3	628.3	628.3	628.3	628.3	636.9	632.6	645.5	636.9	641.1
60°	474.5	478.7	478.7	482.9	478.7	478.7	474.5	482.9	482.9	487.3	487.3
62.5°	350.5	363.3	354.7	363.3	354.7	363.3	350.5	354.7	354.7	359.1	363.3
65°	226.6	226.6	226.6	230.8	226.6	226.6	226.6	230.8	235.0	230.8	243.7
67.5°	153.9	158.2	166.8	162.4	166.8	158.2	153.9	158.2	158.2	171.0	166.8
70°	124.0	111.2	111.2	124.0	111.2	111.2	124.0	115.4	111.2	119.6	115.4
72.5°	72.7	64.0	72.7	72.7	72.7	64.0	72.7	64.0	68.4	68.4	76.9
75°	38.5	34.1	29.9	42.8	29.9	34.1	38.5	38.5	38.5	38.5	42.8
77.5°	25.7	21.3	29.9	29.9	29.9	21.3	25.7	21.3	25.7	21.3	25.7
80°	12.8	17.1	12.8	21.3	12.8	17.1	12.8	21.3	12.8	17.1	17.1
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: P248865

CATALOG NUMBER: LD8B200D010 ER8B2009730 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	8753.6	8753.6	8753.6	8753.6	8753.6	8753.6	8753.6	8753.6	8753.6	8753.6	8753.6
2.5°	8843.4	8830.5	8834.9	8809.2	8809.2	8800.6	8805.0	8783.5	8775.1	8766.5	8779.3
5°	8971.6	8950.3	8933.1	8894.7	8873.3	8847.8	8834.9	8800.6	8770.7	8745.0	8740.8
7.5°	9074.2	9027.2	8997.3	8945.9	8907.6	8877.7	8834.9	8787.8	8749.4	8715.1	8689.6
10°	9116.9	9070.0	9023.0	8958.8	8916.0	8860.4	8817.7	8757.9	8706.7	8659.7	8629.6
12.5°	9121.2	9061.3	9018.6	8945.9	8890.3	8830.5	8783.5	8715.1	8655.3	8608.3	8561.3
15°	9082.8	9027.2	8975.8	8899.0	8843.4	8787.8	8732.4	8659.7	8604.1	8548.5	8514.4
17.5°	8997.3	8945.9	8886.1	8813.5	8762.3	8710.9	8651.1	8591.3	8527.0	8467.2	8424.5
20°	8886.1	8830.5	8779.3	8706.7	8663.9	8608.3	8552.7	8488.7	8437.3	8377.5	8330.5
22.5°	8719.5	8668.1	8621.2	8578.4	8510.0	8467.2	8428.9	8356.2	8304.8	8249.2	8198.0
25°	8480.1	8428.9	8390.3	8339.0	8309.1	8262.1	8223.6	8159.5	8112.5	8061.2	8018.4
27.5°	8086.9	8057.0	8035.5	8005.6	7980.1	7958.6	7937.3	7885.9	7851.8	7804.8	7762.1
30°	7497.0	7492.7	7479.9	7467.1	7484.1	7484.1	7484.1	7475.7	7445.8	7411.5	7381.6
32.5°	6740.5	6749.1	6766.1	6779.0	6813.1	6851.6	6885.8	6902.8	6902.8	6881.6	6868.7
35°	5838.6	5851.5	5877.2	5911.3	5954.0	6001.0	6077.9	6095.1	6107.8	6107.8	6090.7
37.5°	4902.5	4898.3	4924.0	4953.9	4979.6	5013.7	5069.3	5082.1	5103.4	5095.0	5077.7
40°	3992.1	3970.8	3962.1	3970.8	4000.7	3987.8	4000.7	3992.1	3992.1	3962.1	3962.1
42.5°	3150.1	3124.5	3107.3	3094.6	3094.6	3064.5	3043.3	3022.0	3009.1	2987.7	2983.4
45°	2427.9	2397.8	2376.5	2367.9	2355.2	2316.7	2291.0	2265.3	2235.4	2226.9	2231.2
47.5°	1884.9	1855.0	1846.4	1825.1	1803.6	1782.4	1765.3	1735.4	1731.0	1713.9	1731.0
50°	1453.2	1444.7	1431.9	1423.3	1410.4	1393.4	1376.3	1359.2	1350.6	1350.6	1354.8
52.5°	1128.4	1132.6	1119.8	1107.0	1098.5	1098.5	1077.1	1072.8	1072.8	1055.8	1072.8
55°	863.5	859.1	863.5	854.9	854.9	842.0	842.0	829.2	829.2	816.3	824.9
57.5°	632.6	641.1	632.6	636.9	645.5	632.6	628.3	615.4	624.0	615.4	619.8
60°	491.6	491.6	491.6	487.3	487.3	482.9	482.9	478.7	478.7	470.1	478.7
62.5°	363.3	367.5	367.5	367.5	371.9	367.5	363.3	367.5	363.3	363.3	367.5
65°	239.4	243.7	243.7	239.4	247.9	239.4	243.7	247.9	252.1	247.9	252.1
67.5°	162.4	162.4	166.8	171.0	166.8	171.0	175.2	171.0	175.2	183.8	175.2
70°	119.6	124.0	124.0	119.6	115.4	119.6	115.4	128.3	128.3	128.3	136.7
72.5°	76.9	76.9	72.7	72.7	72.7	72.7	72.7	85.5	76.9	72.7	81.3
75°	42.8	47.0	47.0	34.1	38.5	47.0	34.1	38.5	51.4	42.8	51.4
77.5°	25.7	25.7	25.7	25.7	25.7	25.7	34.1	29.9	29.9	29.9	34.1
80°	21.3	17.1	17.1	12.8	17.1	17.1	17.1	25.7	21.3	21.3	25.7
82.5°	8.6	8.6	4.2	0.0	8.6	8.6	8.6	8.6	8.6	8.6	17.1
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: P248865

CATALOG NUMBER: LD8B200D010 ER8B2009730 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	8753.6	8753.6	8753.6	8753.6	8753.6	8753.6	8753.6	8753.6	8753.6	8753.6	8753.6
2.5°	8745.0	8745.0	8740.8	8732.4	8715.1	8715.1	8710.9	8698.0	8689.6	8685.2	8685.2
5°	8702.3	8685.2	8668.1	8621.2	8621.2	8612.5	8587.0	8569.8	8561.3	8539.9	8531.4
7.5°	8663.9	8612.5	8582.6	8552.7	8514.4	8497.1	8467.2	8454.4	8424.5	8403.2	8390.3
10°	8569.8	8535.7	8497.1	8450.2	8420.2	8386.1	8351.8	8326.3	8287.8	8266.3	8249.2
12.5°	8505.8	8454.4	8420.2	8368.9	8317.7	8287.8	8240.8	8210.9	8172.4	8129.6	8103.9
15°	8445.9	8390.3	8343.4	8287.8	8232.2	8198.0	8142.5	8108.3	8052.7	8010.0	7980.1
17.5°	8356.2	8309.1	8257.9	8189.4	8138.2	8095.5	8035.5	7992.9	7941.5	7885.9	7856.0
20°	8262.1	8206.5	8155.3	8086.9	8035.5	7984.3	7924.5	7877.5	7817.5	7766.3	7732.2
22.5°	8138.2	8074.0	8031.3	7962.8	7903.0	7847.6	7792.0	7736.4	7680.8	7638.1	7599.5
25°	7958.6	7890.2	7843.2	7787.6	7732.2	7689.4	7621.0	7586.9	7531.3	7492.7	7454.2
27.5°	7702.1	7650.9	7608.2	7552.6	7505.6	7471.5	7420.1	7385.9	7338.8	7304.7	7274.8
30°	7326.1	7283.4	7244.9	7189.3	7155.1	7125.2	7078.1	7048.2	7014.0	6975.5	6967.1
32.5°	6821.7	6787.4	6749.1	6710.5	6684.9	6667.8	6629.3	6612.2	6578.1	6556.6	6535.3
35°	6060.8	6030.9	6009.6	5992.6	5984.0	5988.2	5979.7	5996.8	6005.2	6001.0	6005.2
37.5°	5065.1	5047.8	5056.4	5069.3	5112.0	5167.6	5218.8	5295.7	5347.1	5398.5	5445.4
40°	3953.7	3966.5	4000.7	4077.6	4188.7	4312.8	4428.2	4573.5	4718.8	4821.4	4915.3
42.5°	2983.4	3022.0	3107.3	3218.5	3385.3	3568.9	3748.6	3962.1	4137.6	4308.4	4428.2
45°	2244.0	2295.2	2406.4	2560.3	2744.0	2957.8	3184.4	3423.6	3633.2	3808.4	3940.9
47.5°	1748.2	1795.2	1906.4	2068.8	2295.2	2517.6	2752.6	3000.5	3218.5	3389.5	3504.9
50°	1380.5	1440.3	1538.7	1709.7	1936.3	2171.3	2415.0	2658.5	2863.8	3009.1	3111.7
52.5°	1085.7	1141.3	1235.2	1414.8	1645.7	1880.7	2107.1	2346.6	2526.0	2667.1	2735.6
55°	842.0	893.4	991.5	1141.3	1359.2	1590.1	1816.5	2021.8	2188.4	2291.0	2355.2
57.5°	641.1	679.6	748.1	897.6	1094.3	1307.9	1500.3	1705.5	1833.7	1906.4	1949.0
60°	487.3	517.2	589.9	705.3	884.8	1068.6	1231.0	1384.9	1487.5	1547.3	1590.1
62.5°	367.5	401.8	453.0	551.4	688.1	837.8	974.5	1089.9	1175.4	1213.9	1243.8
65°	252.1	277.8	316.3	393.2	508.6	615.4	722.4	807.9	863.5	906.2	923.3
67.5°	188.1	205.1	226.6	286.4	367.5	453.0	525.7	585.5	645.5	662.6	692.5
70°	141.1	153.9	175.2	218.0	265.0	324.8	384.8	418.9	461.6	491.6	500.2
72.5°	89.7	93.9	115.4	141.1	179.4	218.0	256.5	286.4	312.1	329.2	337.6
75°	51.4	76.9	76.9	102.6	128.3	145.3	171.0	192.3	205.1	218.0	218.0
77.5°	34.1	47.0	51.4	64.0	76.9	98.3	119.6	132.5	145.3	149.5	149.5
80°	29.9	34.1	34.1	47.0	55.6	72.7	85.5	89.7	98.3	102.6	111.2
82.5°	12.8	17.1	21.3	34.1	38.5	38.5	51.4	55.6	64.0	68.4	68.4
85°	4.2	8.6	8.6	12.8	21.3	25.7	29.9	34.1	38.5	38.5	42.8
87.5°	4.2	4.2	0.0	4.2	8.6	8.6	17.1	17.1	17.1	25.7	25.7
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: P248865

CATALOG NUMBER: LD8B200D010 ER8B2009730 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	8753.6	8753.6	8753.6	8753.6	8753.6	8753.6	8753.6
2.5°	8676.8	8681.0	8663.9	8659.7	8651.1	8655.3	8663.9
5°	8518.6	8522.8	8505.8	8488.7	8488.7	8484.3	8488.7
7.5°	8368.9	8373.3	8347.6	8339.0	8321.9	8326.3	8326.3
10°	8219.3	8219.3	8181.0	8176.6	8163.7	8159.5	8159.5
12.5°	8074.0	8061.2	8031.3	8014.2	8022.8	7997.1	7997.1
15°	7945.8	7924.5	7885.9	7873.1	7851.8	7843.2	7843.2
17.5°	7813.3	7796.2	7762.1	7736.4	7710.7	7706.5	7710.7
20°	7685.0	7668.0	7625.2	7608.2	7586.9	7586.9	7578.2
22.5°	7556.8	7539.7	7501.4	7488.5	7458.6	7458.6	7462.8
25°	7424.3	7411.5	7368.7	7360.3	7356.0	7338.8	7347.4
27.5°	7244.9	7236.2	7202.1	7189.3	7172.2	7168.0	7176.4
30°	6915.7	6902.8	6877.3	6864.5	6834.6	6838.8	6847.2
32.5°	6505.4	6488.3	6454.0	6441.2	6415.7	6407.1	6411.3
35°	5992.6	5979.7	5949.8	5949.8	5924.1	5915.5	5924.1
37.5°	5471.1	5483.8	5471.1	5483.8	5471.1	5466.7	5471.1
40°	4979.6	5026.5	5035.0	5082.1	5065.1	5090.6	5086.4
42.5°	4509.3	4586.2	4616.3	4654.6	4646.2	4663.2	4676.1
45°	4034.8	4099.0	4128.9	4154.6	4158.8	4167.5	4171.7
47.5°	3586.0	3637.4	3641.6	3671.5	3667.3	3667.3	3680.1
50°	3167.3	3201.4	3209.9	3231.3	3214.3	3205.6	3209.9
52.5°	2778.3	2812.4	2803.8	2812.4	2791.2	2782.5	2786.8
55°	2380.7	2397.8	2397.8	2397.8	2372.3	2372.3	2372.3
57.5°	1974.7	1979.1	1970.4	1974.7	1970.4	1944.7	1940.5
60°	1602.9	1602.9	1598.5	1602.9	1590.1	1577.2	1577.2
62.5°	1252.3	1260.9	1278.0	1260.9	1252.3	1260.9	1248.1
65°	936.1	953.2	948.8	957.4	953.2	953.2	944.6
67.5°	705.3	709.5	713.8	718.2	718.2	718.2	718.2
70°	517.2	530.1	525.7	525.7	525.7	525.7	551.4
72.5°	346.2	363.3	359.1	367.5	367.5	376.1	367.5
75°	235.0	252.1	243.7	256.5	252.1	243.7	265.0
77.5°	158.2	166.8	171.0	175.2	171.0	166.8	171.0
80°	111.2	119.6	115.4	119.6	119.6	119.6	124.0
82.5°	68.4	81.3	76.9	81.3	76.9	81.3	81.3
85°	47.0	51.4	42.8	51.4	47.0	47.0	55.6
87.5°	29.9	25.7	25.7	29.9	25.7	29.9	25.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)