

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: P248883

Luminaire Tested: **LD8B200D010 ER8B200830 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248883
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 ER8B200830 8LBSW0B
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15891.0 lumens
Efficiency: N/A
Efficacy: 71.2 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

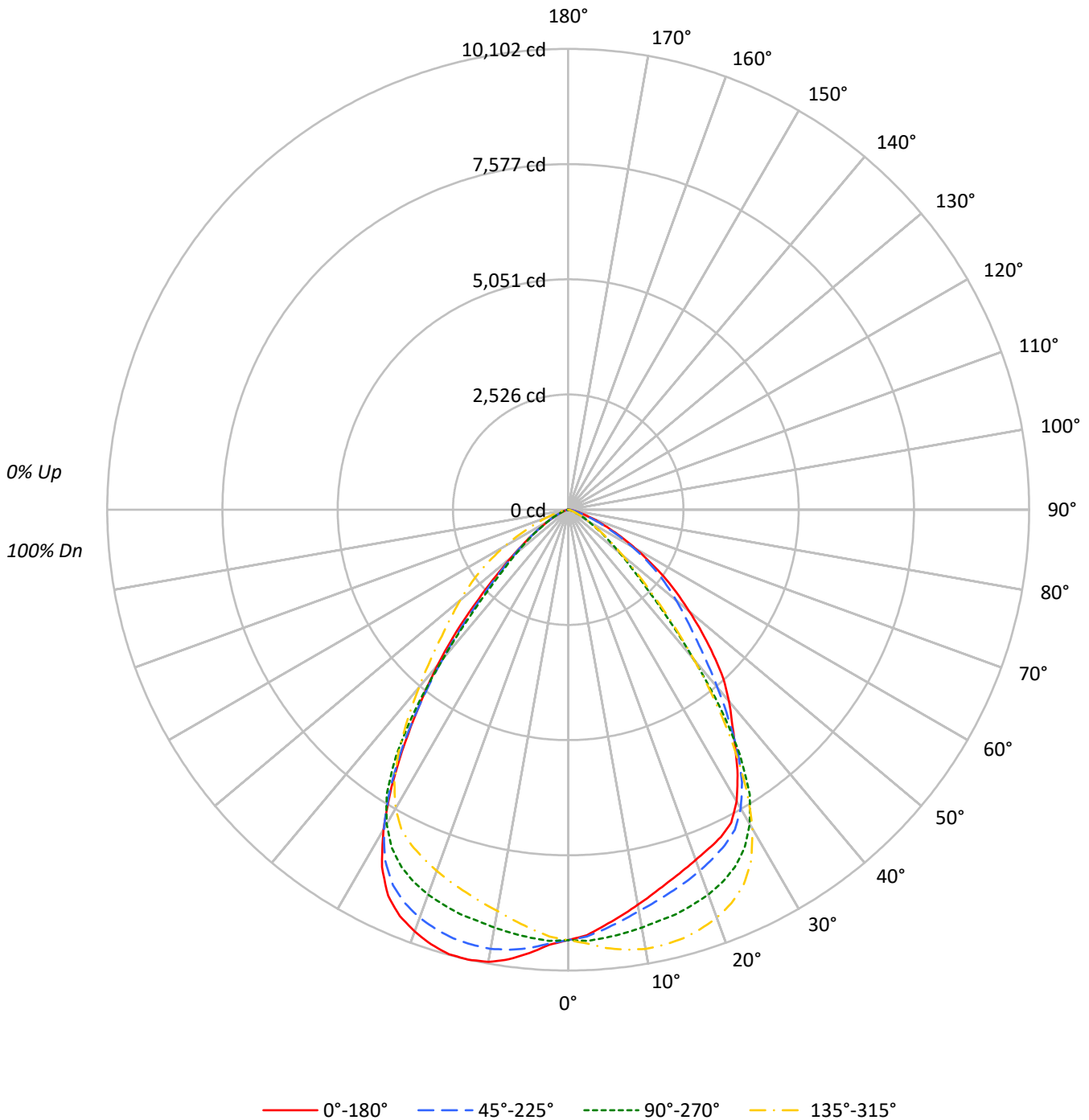
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P248883

CATALOG NUMBER: LD8B200D010 ER8B200830 8LBSW0B

Luminous Intensity Polar Plot





TEST NUMBER: P248883

CATALOG NUMBER: LD8B200D010 ER8B200830 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°	290910	290910	290910	290910
5°	283181	291591	302004	291591
10°	275348	291211	315155	291211
15°	269848	292939	322054	292939
20°	268009	294616	322883	294616
25°	269420	294023	317693	294023
30°	262756	283262	288350	283262
35°	240343	247100	234448	247100
40°	220660	171888	179496	171888
45°	196062	104863	121334	104863
50°	165952	70045	77788	70045
55°	137447	47799	50520	47799
60°	104831	31817	32101	31817
65°	74278	19825	18154	19825
70°	53573	13280	12054	13280
75°	34015	6600	5492	6600
80°	23742	4919	4067	4919
85°	21193	0	1628	0



TEST NUMBER: P248883

CATALOG NUMBER: LD8B200D010 ER8B200830 8LBSW0B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	897.9	5.7
10°-20°	2600.3	16.4
20°-30°	3937.3	24.8
30°-40°	3946.2	24.8
40°-50°	2478.0	15.6
50°-60°	1320.5	8.3
60°-70°	543.0	3.4
70°-80°	143.5	0.9
80°-90°	24.3	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	7435.5	46.8
0°-40°	11381.7	71.6
0°-60°	15180.3	95.5
0°-90°	15891.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15891.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	9434	9434	9434	9434	9434	
5°	9148	9420	9756	9420	9148	863
15°	8453	9176	10088	9176	8453	2391
25°	7918	8642	9337	8642	7918	3632
35°	6385	6564	6228	6564	6385	4000
45°	4496	2405	2782	2405	4496	3458
55°	2557	889	940	889	2557	2279
65°	1018	272	249	272	1018	1056
75°	286	55	46	55	286	324
85°	60	0	5	0	60	66
90°	0	0	0	0	0	



TEST NUMBER: P248883

CATALOG NUMBER: LD8B200D010 ER8B200830 8LBSW0B

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	9434.0	9434.0	9434.0	9434.0	9434.0	9434.0	9434.0	9434.0	9434.0	9434.0	9434.0
2.5°	9337.3	9328.0	9323.4	9332.7	9337.3	9355.7	9351.1	9360.2	9360.2	9365.0	9374.1
5°	9148.4	9143.7	9148.4	9148.4	9166.8	9185.2	9180.7	9194.5	9203.6	9226.7	9235.8
7.5°	8973.4	8973.4	8968.7	8987.1	8996.4	9024.1	9019.3	9042.4	9056.3	9079.2	9111.5
10°	8793.7	8793.7	8798.2	8812.1	8816.8	8858.2	8858.2	8890.4	8908.8	8931.9	8973.4
12.5°	8618.7	8618.7	8646.4	8637.1	8655.5	8687.7	8701.5	8733.8	8761.5	8807.5	8849.1
15°	8452.8	8452.8	8462.1	8485.0	8498.9	8540.4	8563.3	8600.3	8632.5	8678.6	8738.5
17.5°	8310.0	8305.5	8310.0	8337.7	8365.4	8402.2	8420.5	8466.6	8498.9	8558.8	8614.1
20°	8167.2	8176.5	8176.5	8199.5	8217.9	8263.9	8282.3	8333.1	8369.9	8425.1	8489.8
22.5°	8042.9	8038.3	8038.3	8070.5	8084.4	8125.7	8144.1	8190.2	8231.7	8277.8	8337.7
25°	7918.5	7909.2	7927.8	7932.3	7941.4	7987.5	8001.3	8033.6	8075.1	8116.6	8176.5
27.5°	7734.2	7725.1	7729.6	7748.0	7761.9	7798.6	7807.9	7840.2	7872.4	7909.2	7960.0
30°	7379.4	7370.3	7365.8	7398.0	7411.8	7439.3	7453.2	7508.5	7517.6	7559.2	7596.0
32.5°	6909.6	6905.0	6914.3	6941.8	6955.7	6992.6	7011.0	7043.3	7066.2	7089.3	7126.1
35°	6384.6	6375.3	6384.6	6412.2	6412.2	6444.5	6458.3	6472.0	6467.4	6472.0	6462.9
37.5°	5896.3	5891.6	5896.3	5910.0	5896.3	5910.0	5896.3	5868.7	5818.0	5762.7	5707.3
40°	5481.7	5486.2	5458.7	5477.1	5426.3	5417.2	5366.6	5297.4	5196.1	5085.6	4929.0
42.5°	5039.5	5025.7	5007.3	5016.4	4975.0	4942.6	4859.8	4772.4	4643.2	4459.1	4270.1
45°	4495.9	4491.4	4482.1	4477.5	4449.8	4417.6	4348.4	4247.2	4104.4	3915.5	3689.7
47.5°	3966.2	3952.3	3952.3	3956.9	3924.6	3920.1	3864.7	3777.3	3652.9	3468.6	3233.7
50°	3459.3	3454.8	3464.1	3482.5	3459.3	3450.2	3413.5	3353.5	3243.0	3086.4	2865.1
52.5°	3003.3	2998.8	3008.1	3031.0	3021.7	3031.0	2994.2	2948.2	2874.4	2722.3	2529.0
55°	2556.6	2556.6	2556.6	2584.1	2584.1	2584.1	2565.7	2538.2	2469.0	2358.5	2178.9
57.5°	2091.3	2095.9	2123.6	2128.1	2123.6	2132.9	2128.1	2100.4	2054.6	1976.3	1838.0
60°	1699.8	1699.8	1713.6	1727.5	1722.8	1727.5	1727.5	1713.6	1667.6	1603.1	1492.6
62.5°	1345.1	1358.9	1349.6	1358.9	1377.3	1358.9	1349.6	1340.5	1308.3	1266.8	1174.6
65°	1018.0	1027.3	1027.3	1031.8	1022.5	1027.3	1008.9	995.0	976.7	930.6	870.7
67.5°	774.0	774.0	774.0	774.0	769.2	764.7	760.1	746.3	714.1	695.7	631.0
70°	594.2	566.5	566.5	566.5	566.5	571.3	557.4	539.0	529.8	497.5	451.4
72.5°	396.1	405.4	396.1	396.1	387.0	391.5	373.1	363.9	354.8	336.4	308.7
75°	285.5	262.6	271.7	276.4	262.6	271.7	253.3	234.9	234.9	221.1	207.2
77.5°	184.3	179.7	184.3	188.8	184.3	179.7	170.5	161.2	161.2	156.6	142.8
80°	133.7	128.9	128.9	128.9	124.4	128.9	119.8	119.8	110.5	106.0	96.7
82.5°	87.6	87.6	82.9	87.6	82.9	87.6	73.8	73.8	73.8	69.0	59.9
85°	59.9	50.6	50.6	55.4	46.1	55.4	50.6	46.1	41.5	41.5	36.8
87.5°	27.7	32.2	27.7	32.2	27.7	27.7	32.2	27.7	27.7	18.4	18.4
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: P248883

CATALOG NUMBER: LD8B200D010 ER8B200830 8LBSW0B

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	9434.0	9434.0	9434.0	9434.0	9434.0	9434.0	9434.0	9434.0	9434.0	9434.0	9434.0
2.5°	9387.9	9392.5	9392.5	9411.0	9420.1	9424.7	9424.7	9461.7	9447.8	9457.1	9466.2
5°	9254.4	9281.9	9291.2	9291.2	9341.8	9360.2	9378.6	9420.1	9424.7	9452.4	9484.6
7.5°	9125.3	9157.5	9176.1	9217.5	9249.7	9281.9	9337.3	9365.0	9392.5	9429.4	9470.8
10°	9000.9	9037.9	9074.7	9106.9	9157.5	9199.1	9235.8	9300.3	9332.7	9383.4	9438.5
12.5°	8881.3	8931.9	8964.1	9019.3	9074.7	9111.5	9166.8	9226.7	9277.4	9328.0	9392.5
15°	8775.3	8835.2	8872.0	8931.9	8991.8	9042.4	9102.4	9176.1	9212.9	9272.8	9332.7
17.5°	8660.0	8724.7	8770.7	8825.9	8899.7	8954.9	9005.7	9079.2	9125.3	9189.8	9259.0
20°	8540.4	8604.8	8660.0	8715.4	8789.1	8844.3	8904.2	8978.0	9028.6	9093.1	9148.4
22.5°	8397.6	8457.5	8517.2	8581.7	8655.5	8701.5	8770.7	8835.2	8890.4	8950.3	9005.7
25°	8213.3	8287.1	8333.1	8392.9	8452.8	8503.4	8577.2	8641.6	8687.7	8743.1	8793.7
27.5°	7996.8	8052.1	8088.9	8139.6	8199.5	8245.5	8300.7	8365.4	8411.4	8462.1	8498.9
30°	7628.2	7679.0	7711.2	7748.0	7807.9	7849.5	7895.5	7955.3	7987.5	8024.5	8056.7
32.5°	7144.5	7186.0	7204.4	7232.1	7273.6	7315.0	7351.9	7402.6	7416.4	7439.3	7439.3
35°	6444.5	6453.6	6449.0	6458.3	6476.7	6499.7	6531.9	6564.1	6582.5	6582.5	6568.9
37.5°	5624.4	5569.3	5509.4	5463.3	5449.4	5440.1	5458.7	5472.4	5491.0	5500.1	5477.1
40°	4772.4	4648.0	4514.3	4394.5	4311.6	4274.8	4261.0	4270.1	4270.1	4302.3	4302.3
42.5°	4039.9	3846.3	3648.4	3468.6	3348.8	3256.8	3215.3	3215.3	3219.9	3243.0	3256.8
45°	3431.8	3187.6	2957.3	2759.3	2593.4	2473.6	2418.4	2404.6	2400.0	2409.1	2441.4
47.5°	2966.6	2713.2	2473.6	2229.6	2054.6	1934.7	1884.1	1865.5	1847.1	1865.5	1870.3
50°	2602.7	2340.1	2086.8	1842.6	1658.3	1552.3	1487.8	1460.1	1455.6	1455.6	1464.9
52.5°	2270.9	2026.9	1773.6	1524.8	1331.2	1230.0	1170.1	1156.2	1137.8	1156.2	1156.2
55°	1957.7	1713.6	1464.9	1230.0	1068.6	962.8	907.4	889.1	879.8	893.6	893.6
57.5°	1617.0	1409.5	1179.3	967.4	806.2	732.4	690.9	668.0	663.2	672.5	663.2
60°	1326.7	1151.7	953.5	760.1	635.7	557.4	525.2	515.9	506.6	515.9	515.9
62.5°	1050.2	902.9	741.5	594.2	488.2	433.1	396.1	396.1	391.5	391.5	396.1
65°	778.5	663.2	548.1	423.8	340.9	299.4	271.7	271.7	267.2	271.7	267.2
67.5°	566.5	488.2	396.1	308.7	244.2	221.1	202.7	188.8	198.1	188.8	184.3
70°	414.7	350.0	285.5	234.9	188.8	165.9	152.1	147.3	138.2	138.2	138.2
72.5°	276.4	234.9	193.4	152.1	124.4	101.2	96.7	87.6	78.3	82.9	92.1
75°	184.3	156.6	138.2	110.5	82.9	82.9	55.4	55.4	46.1	55.4	41.5
77.5°	128.9	106.0	82.9	69.0	55.4	50.6	36.8	36.8	32.2	32.2	32.2
80°	92.1	78.3	59.9	50.6	36.8	36.8	32.2	27.7	22.9	22.9	27.7
82.5°	55.4	41.5	41.5	36.8	22.9	18.4	13.8	18.4	9.3	9.3	9.3
85°	32.2	27.7	22.9	13.8	9.3	9.3	4.6	0.0	4.6	4.6	0.0
87.5°	18.4	9.3	9.3	4.6	0.0	4.6	4.6	0.0	0.0	0.0	9.3
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: P248883

CATALOG NUMBER: LD8B200D010 ER8B200830 8LBSW0B

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	9434.0	9434.0	9434.0	9434.0	9434.0	9434.0	9434.0	9434.0	9434.0	9434.0	9434.0
2.5°	9489.3	9484.6	9493.9	9493.9	9521.6	9516.8	9530.7	9530.7	9521.6	9526.1	9544.5
5°	9521.6	9535.4	9562.9	9586.0	9627.4	9646.0	9668.9	9692.0	9696.6	9710.4	9724.3
7.5°	9521.6	9567.7	9599.9	9641.2	9696.6	9728.8	9779.4	9821.0	9839.4	9862.3	9890.0
10°	9503.0	9549.1	9609.0	9655.1	9724.3	9774.9	9825.5	9890.0	9917.7	9954.4	9991.4
12.5°	9466.2	9516.8	9581.3	9641.2	9719.5	9765.6	9830.1	9890.0	9931.5	9982.1	10023.7
15°	9411.0	9470.8	9530.7	9590.6	9673.5	9728.8	9788.7	9857.8	9899.3	9954.4	9991.4
17.5°	9323.4	9387.9	9443.3	9498.4	9576.8	9641.2	9696.6	9761.1	9802.6	9848.6	9899.3
20°	9217.5	9277.4	9337.3	9383.4	9461.7	9516.8	9576.8	9636.7	9668.9	9678.2	9756.5
22.5°	9084.0	9125.3	9171.4	9245.1	9291.2	9341.8	9397.2	9452.4	9484.6	9535.4	9562.9
25°	8862.7	8904.2	8954.9	8987.1	9042.4	9084.0	9139.1	9199.1	9217.5	9254.4	9281.9
27.5°	8554.2	8577.2	8600.3	8627.8	8660.0	8683.1	8715.4	8743.1	8761.5	8779.8	8798.2
30°	8065.8	8065.8	8065.8	8047.4	8061.2	8075.1	8079.6	8075.1	8075.1	8070.5	8070.5
32.5°	7420.9	7384.2	7342.6	7305.9	7292.0	7273.6	7264.3	7250.5	7227.6	7213.7	7218.3
35°	6550.3	6467.4	6416.8	6370.7	6333.9	6306.3	6292.4	6278.6	6274.0	6255.6	6237.1
37.5°	5463.3	5403.4	5366.6	5338.9	5306.7	5279.0	5283.5	5288.3	5301.9	5292.8	5297.4
40°	4311.6	4297.8	4311.6	4279.4	4270.1	4279.4	4302.3	4334.7	4353.1	4371.5	4403.8
42.5°	3279.8	3302.7	3335.2	3335.2	3348.8	3367.4	3394.9	3445.7	3473.2	3505.4	3542.4
45°	2469.0	2496.7	2538.2	2551.9	2561.2	2584.1	2616.5	2657.9	2676.3	2704.0	2736.2
47.5°	1902.5	1920.9	1943.8	1967.0	1989.9	1999.2	2031.4	2031.4	2054.6	2073.0	2082.1
50°	1483.3	1501.7	1520.1	1533.9	1543.2	1557.0	1566.1	1580.0	1584.5	1593.8	1598.4
52.5°	1160.8	1183.9	1183.9	1193.0	1206.8	1220.7	1216.1	1220.7	1225.2	1225.2	1239.1
55°	907.4	907.4	921.3	921.3	930.6	925.8	930.6	930.6	930.6	930.6	935.1
57.5°	677.1	681.8	695.7	686.4	681.8	690.9	681.8	690.9	686.4	695.7	681.8
60°	520.5	520.5	525.2	525.2	529.8	529.8	529.8	525.2	525.2	520.5	520.5
62.5°	391.5	396.1	400.8	396.1	396.1	396.1	391.5	391.5	387.0	382.2	382.2
65°	262.6	258.1	267.2	258.1	262.6	262.6	258.1	262.6	248.8	253.3	248.8
67.5°	188.8	184.3	179.7	184.3	179.7	175.0	175.0	179.7	184.3	170.5	170.5
70°	124.4	128.9	124.4	128.9	133.7	133.7	128.9	124.4	128.9	119.8	124.4
72.5°	78.3	78.3	78.3	78.3	78.3	82.9	82.9	82.9	73.8	73.8	69.0
75°	36.8	50.6	41.5	36.8	50.6	50.6	46.1	46.1	41.5	41.5	41.5
77.5°	36.8	27.7	27.7	27.7	27.7	27.7	27.7	27.7	22.9	27.7	22.9
80°	18.4	18.4	18.4	13.8	18.4	18.4	22.9	18.4	18.4	13.8	22.9
82.5°	9.3	9.3	9.3	0.0	4.6	9.3	9.3	4.6	9.3	9.3	4.6
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: P248883

CATALOG NUMBER: LD8B200D010 ER8B200830 8LBSW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	9434.0	9434.0	9434.0	9434.0	9434.0	9434.0	9434.0	9434.0	9434.0	9434.0	9434.0
2.5°	9540.0	9535.4	9540.0	9544.5	9540.0	9535.4	9540.0	9544.5	9526.1	9521.6	9530.7
5°	9742.7	9742.7	9751.8	9756.5	9751.8	9742.7	9742.7	9724.3	9710.4	9696.6	9692.0
7.5°	9917.7	9927.0	9936.1	9940.6	9936.1	9927.0	9917.7	9890.0	9862.3	9839.4	9821.0
10°	10023.7	10037.5	10055.9	10065.0	10055.9	10037.5	10023.7	9991.4	9954.4	9917.7	9890.0
12.5°	10069.7	10083.6	10106.5	10102.0	10106.5	10083.6	10069.7	10023.7	9982.1	9931.5	9890.0
15°	10037.5	10055.9	10078.8	10088.1	10078.8	10055.9	10037.5	9991.4	9954.4	9899.3	9857.8
17.5°	9936.1	9963.7	9977.6	9991.4	9977.6	9963.7	9936.1	9899.3	9848.6	9802.6	9761.1
20°	9797.8	9816.4	9834.8	9839.4	9834.8	9816.4	9797.8	9756.5	9678.2	9668.9	9636.7
22.5°	9599.9	9613.7	9655.1	9641.2	9655.1	9613.7	9599.9	9562.9	9535.4	9484.6	9452.4
25°	9314.2	9328.0	9332.7	9337.3	9332.7	9328.0	9314.2	9281.9	9254.4	9217.5	9199.1
27.5°	8821.4	8821.4	8830.5	8835.2	8830.5	8821.4	8821.4	8798.2	8779.8	8761.5	8743.1
30°	8075.1	8075.1	8075.1	8098.2	8075.1	8075.1	8075.1	8070.5	8070.5	8075.1	8075.1
32.5°	7213.7	7204.4	7195.3	7204.4	7195.3	7204.4	7213.7	7218.3	7213.7	7227.6	7250.5
35°	6237.1	6232.5	6246.3	6228.0	6246.3	6232.5	6237.1	6237.1	6255.6	6274.0	6278.6
37.5°	5301.9	5292.8	5311.2	5292.8	5311.2	5292.8	5301.9	5297.4	5292.8	5301.9	5288.3
40°	4413.1	4422.2	4422.2	4459.1	4422.2	4422.2	4413.1	4403.8	4371.5	4353.1	4334.7
42.5°	3560.8	3588.5	3579.2	3606.9	3579.2	3588.5	3560.8	3542.4	3505.4	3473.2	3445.7
45°	2754.6	2773.2	2773.2	2782.3	2773.2	2773.2	2754.6	2736.2	2704.0	2676.3	2657.9
47.5°	2114.3	2114.3	2114.3	2119.0	2114.3	2114.3	2114.3	2082.1	2073.0	2054.6	2031.4
50°	1607.7	1612.2	1617.0	1621.5	1617.0	1612.2	1607.7	1598.4	1593.8	1584.5	1580.0
52.5°	1234.5	1239.1	1230.0	1239.1	1230.0	1239.1	1234.5	1239.1	1225.2	1225.2	1220.7
55°	935.1	930.6	935.1	939.7	935.1	930.6	935.1	935.1	930.6	930.6	930.6
57.5°	686.4	677.1	677.1	677.1	677.1	677.1	686.4	681.8	695.7	686.4	690.9
60°	511.4	515.9	515.9	520.5	515.9	515.9	511.4	520.5	520.5	525.2	525.2
62.5°	377.7	391.5	382.2	391.5	382.2	391.5	377.7	382.2	382.2	387.0	391.5
65°	244.2	244.2	244.2	248.8	244.2	244.2	244.2	248.8	253.3	248.8	262.6
67.5°	165.9	170.5	179.7	175.0	179.7	170.5	165.9	170.5	170.5	184.3	179.7
70°	133.7	119.8	119.8	133.7	119.8	119.8	133.7	124.4	119.8	128.9	124.4
72.5°	78.3	69.0	78.3	78.3	78.3	69.0	78.3	69.0	73.8	73.8	82.9
75°	41.5	36.8	32.2	46.1	32.2	36.8	41.5	41.5	41.5	41.5	46.1
77.5°	27.7	22.9	32.2	32.2	32.2	22.9	27.7	22.9	27.7	22.9	27.7
80°	13.8	18.4	13.8	22.9	13.8	18.4	13.8	22.9	13.8	18.4	18.4
82.5°	4.6	9.3	9.3	9.3	9.3	9.3	4.6	4.6	9.3	9.3	4.6
85°	0.0	9.3	4.6	4.6	4.6	9.3	0.0	0.0	0.0	0.0	0.0
87.5°	4.6	0.0	0.0	4.6	0.0	0.0	4.6	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: P248883

CATALOG NUMBER: LD8B200D010 ER8B200830 8LBSW0B

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	9434.0	9434.0	9434.0	9434.0	9434.0	9434.0	9434.0	9434.0	9434.0	9434.0	9434.0
2.5°	9530.7	9516.8	9521.6	9493.9	9493.9	9484.6	9489.3	9466.2	9457.1	9447.8	9461.7
5°	9668.9	9646.0	9627.4	9586.0	9562.9	9535.4	9521.6	9484.6	9452.4	9424.7	9420.1
7.5°	9779.4	9728.8	9696.6	9641.2	9599.9	9567.7	9521.6	9470.8	9429.4	9392.5	9365.0
10°	9825.5	9774.9	9724.3	9655.1	9609.0	9549.1	9503.0	9438.5	9383.4	9332.7	9300.3
12.5°	9830.1	9765.6	9719.5	9641.2	9581.3	9516.8	9466.2	9392.5	9328.0	9277.4	9226.7
15°	9788.7	9728.8	9673.5	9590.6	9530.7	9470.8	9411.0	9332.7	9272.8	9212.9	9176.1
17.5°	9696.6	9641.2	9576.8	9498.4	9443.3	9387.9	9323.4	9259.0	9189.8	9125.3	9079.2
20°	9576.8	9516.8	9461.7	9383.4	9337.3	9277.4	9217.5	9148.4	9093.1	9028.6	8978.0
22.5°	9397.2	9341.8	9291.2	9245.1	9171.4	9125.3	9084.0	9005.7	8950.3	8890.4	8835.2
25°	9139.1	9084.0	9042.4	8987.1	8954.9	8904.2	8862.7	8793.7	8743.1	8687.7	8641.6
27.5°	8715.4	8683.1	8660.0	8627.8	8600.3	8577.2	8554.2	8498.9	8462.1	8411.4	8365.4
30°	8079.6	8075.1	8061.2	8047.4	8065.8	8065.8	8065.8	8056.7	8024.5	7987.5	7955.3
32.5°	7264.3	7273.6	7292.0	7305.9	7342.6	7384.2	7420.9	7439.3	7439.3	7416.4	7402.6
35°	6292.4	6306.3	6333.9	6370.7	6416.8	6467.4	6550.3	6568.9	6582.5	6582.5	6564.1
37.5°	5283.5	5279.0	5306.7	5338.9	5366.6	5403.4	5463.3	5477.1	5500.1	5491.0	5472.4
40°	4302.3	4279.4	4270.1	4279.4	4311.6	4297.8	4311.6	4302.3	4302.3	4270.1	4270.1
42.5°	3394.9	3367.4	3348.8	3335.2	3335.2	3302.7	3279.8	3256.8	3243.0	3219.9	3215.3
45°	2616.5	2584.1	2561.2	2551.9	2538.2	2496.7	2469.0	2441.4	2409.1	2400.0	2404.6
47.5°	2031.4	1999.2	1989.9	1967.0	1943.8	1920.9	1902.5	1870.3	1865.5	1847.1	1865.5
50°	1566.1	1557.0	1543.2	1533.9	1520.1	1501.7	1483.3	1464.9	1455.6	1455.6	1460.1
52.5°	1216.1	1220.7	1206.8	1193.0	1183.9	1183.9	1160.8	1156.2	1156.2	1137.8	1156.2
55°	930.6	925.8	930.6	921.3	921.3	907.4	907.4	893.6	893.6	879.8	889.1
57.5°	681.8	690.9	681.8	686.4	695.7	681.8	677.1	663.2	672.5	663.2	668.0
60°	529.8	529.8	529.8	525.2	525.2	520.5	520.5	515.9	515.9	506.6	515.9
62.5°	391.5	396.1	396.1	396.1	400.8	396.1	391.5	396.1	391.5	391.5	396.1
65°	258.1	262.6	262.6	258.1	267.2	258.1	262.6	267.2	271.7	267.2	271.7
67.5°	175.0	175.0	179.7	184.3	179.7	184.3	188.8	184.3	188.8	198.1	188.8
70°	128.9	133.7	133.7	128.9	124.4	128.9	124.4	138.2	138.2	138.2	147.3
72.5°	82.9	82.9	78.3	78.3	78.3	78.3	78.3	92.1	82.9	78.3	87.6
75°	46.1	50.6	50.6	36.8	41.5	50.6	36.8	41.5	55.4	46.1	55.4
77.5°	27.7	27.7	27.7	27.7	27.7	27.7	36.8	32.2	32.2	32.2	36.8
80°	22.9	18.4	18.4	13.8	18.4	18.4	18.4	27.7	22.9	22.9	27.7
82.5°	9.3	9.3	4.6	0.0	9.3	9.3	9.3	9.3	9.3	9.3	18.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	4.6	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.3	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: P248883

CATALOG NUMBER: LD8B200D010 ER8B200830 8LBSW0B

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	9434.0	9434.0	9434.0	9434.0	9434.0	9434.0	9434.0	9434.0	9434.0	9434.0	9434.0
2.5°	9424.7	9424.7	9420.1	9411.0	9392.5	9392.5	9387.9	9374.1	9365.0	9360.2	9360.2
5°	9378.6	9360.2	9341.8	9291.2	9291.2	9281.9	9254.4	9235.8	9226.7	9203.6	9194.5
7.5°	9337.3	9281.9	9249.7	9217.5	9176.1	9157.5	9125.3	9111.5	9079.2	9056.3	9042.4
10°	9235.8	9199.1	9157.5	9106.9	9074.7	9037.9	9000.9	8973.4	8931.9	8908.8	8890.4
12.5°	9166.8	9111.5	9074.7	9019.3	8964.1	8931.9	8881.3	8849.1	8807.5	8761.5	8733.8
15°	9102.4	9042.4	8991.8	8931.9	8872.0	8835.2	8775.3	8738.5	8678.6	8632.5	8600.3
17.5°	9005.7	8954.9	8899.7	8825.9	8770.7	8724.7	8660.0	8614.1	8558.8	8498.9	8466.6
20°	8904.2	8844.3	8789.1	8715.4	8660.0	8604.8	8540.4	8489.8	8425.1	8369.9	8333.1
22.5°	8770.7	8701.5	8655.5	8581.7	8517.2	8457.5	8397.6	8337.7	8277.8	8231.7	8190.2
25°	8577.2	8503.4	8452.8	8392.9	8333.1	8287.1	8213.3	8176.5	8116.6	8075.1	8033.6
27.5°	8300.7	8245.5	8199.5	8139.6	8088.9	8052.1	7996.8	7960.0	7909.2	7872.4	7840.2
30°	7895.5	7849.5	7807.9	7748.0	7711.2	7679.0	7628.2	7596.0	7559.2	7517.6	7508.5
32.5°	7351.9	7315.0	7273.6	7232.1	7204.4	7186.0	7144.5	7126.1	7089.3	7066.2	7043.3
35°	6531.9	6499.7	6476.7	6458.3	6449.0	6453.6	6444.5	6462.9	6472.0	6467.4	6472.0
37.5°	5458.7	5440.1	5449.4	5463.3	5509.4	5569.3	5624.4	5707.3	5762.7	5818.0	5868.7
40°	4261.0	4274.8	4311.6	4394.5	4514.3	4648.0	4772.4	4929.0	5085.6	5196.1	5297.4
42.5°	3215.3	3256.8	3348.8	3468.6	3648.4	3846.3	4039.9	4270.1	4459.1	4643.2	4772.4
45°	2418.4	2473.6	2593.4	2759.3	2957.3	3187.6	3431.8	3689.7	3915.5	4104.4	4247.2
47.5°	1884.1	1934.7	2054.6	2229.6	2473.6	2713.2	2966.6	3233.7	3468.6	3652.9	3777.3
50°	1487.8	1552.3	1658.3	1842.6	2086.8	2340.1	2602.7	2865.1	3086.4	3243.0	3353.5
52.5°	1170.1	1230.0	1331.2	1524.8	1773.6	2026.9	2270.9	2529.0	2722.3	2874.4	2948.2
55°	907.4	962.8	1068.6	1230.0	1464.9	1713.6	1957.7	2178.9	2358.5	2469.0	2538.2
57.5°	690.9	732.4	806.2	967.4	1179.3	1409.5	1617.0	1838.0	1976.3	2054.6	2100.4
60°	525.2	557.4	635.7	760.1	953.5	1151.7	1326.7	1492.6	1603.1	1667.6	1713.6
62.5°	396.1	433.1	488.2	594.2	741.5	902.9	1050.2	1174.6	1266.8	1308.3	1340.5
65°	271.7	299.4	340.9	423.8	548.1	663.2	778.5	870.7	930.6	976.7	995.0
67.5°	202.7	221.1	244.2	308.7	396.1	488.2	566.5	631.0	695.7	714.1	746.3
70°	152.1	165.9	188.8	234.9	285.5	350.0	414.7	451.4	497.5	529.8	539.0
72.5°	96.7	101.2	124.4	152.1	193.4	234.9	276.4	308.7	336.4	354.8	363.9
75°	55.4	82.9	82.9	110.5	138.2	156.6	184.3	207.2	221.1	234.9	234.9
77.5°	36.8	50.6	55.4	69.0	82.9	106.0	128.9	142.8	156.6	161.2	161.2
80°	32.2	36.8	36.8	50.6	59.9	78.3	92.1	96.7	106.0	110.5	119.8
82.5°	13.8	18.4	22.9	36.8	41.5	41.5	55.4	59.9	69.0	73.8	73.8
85°	4.6	9.3	9.3	13.8	22.9	27.7	32.2	36.8	41.5	41.5	46.1
87.5°	4.6	4.6	0.0	4.6	9.3	9.3	18.4	18.4	18.4	27.7	27.7
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: P248883

CATALOG NUMBER: LD8B200D010 ER8B200830 8LBSW0B

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	9434.0	9434.0	9434.0	9434.0	9434.0	9434.0	9434.0
2.5°	9351.1	9355.7	9337.3	9332.7	9323.4	9328.0	9337.3
5°	9180.7	9185.2	9166.8	9148.4	9148.4	9143.7	9148.4
7.5°	9019.3	9024.1	8996.4	8987.1	8968.7	8973.4	8973.4
10°	8858.2	8858.2	8816.8	8812.1	8798.2	8793.7	8793.7
12.5°	8701.5	8687.7	8655.5	8637.1	8646.4	8618.7	8618.7
15°	8563.3	8540.4	8498.9	8485.0	8462.1	8452.8	8452.8
17.5°	8420.5	8402.2	8365.4	8337.7	8310.0	8305.5	8310.0
20°	8282.3	8263.9	8217.9	8199.5	8176.5	8176.5	8167.2
22.5°	8144.1	8125.7	8084.4	8070.5	8038.3	8038.3	8042.9
25°	8001.3	7987.5	7941.4	7932.3	7927.8	7909.2	7918.5
27.5°	7807.9	7798.6	7761.9	7748.0	7729.6	7725.1	7734.2
30°	7453.2	7439.3	7411.8	7398.0	7365.8	7370.3	7379.4
32.5°	7011.0	6992.6	6955.7	6941.8	6914.3	6905.0	6909.6
35°	6458.3	6444.5	6412.2	6412.2	6384.6	6375.3	6384.6
37.5°	5896.3	5910.0	5896.3	5910.0	5896.3	5891.6	5896.3
40°	5366.6	5417.2	5426.3	5477.1	5458.7	5486.2	5481.7
42.5°	4859.8	4942.6	4975.0	5016.4	5007.3	5025.7	5039.5
45°	4348.4	4417.6	4449.8	4477.5	4482.1	4491.4	4495.9
47.5°	3864.7	3920.1	3924.6	3956.9	3952.3	3952.3	3966.2
50°	3413.5	3450.2	3459.3	3482.5	3464.1	3454.8	3459.3
52.5°	2994.2	3031.0	3021.7	3031.0	3008.1	2998.8	3003.3
55°	2565.7	2584.1	2584.1	2584.1	2556.6	2556.6	2556.6
57.5°	2128.1	2132.9	2123.6	2128.1	2123.6	2095.9	2091.3
60°	1727.5	1727.5	1722.8	1727.5	1713.6	1699.8	1699.8
62.5°	1349.6	1358.9	1377.3	1358.9	1349.6	1358.9	1345.1
65°	1008.9	1027.3	1022.5	1031.8	1027.3	1027.3	1018.0
67.5°	760.1	764.7	769.2	774.0	774.0	774.0	774.0
70°	557.4	571.3	566.5	566.5	566.5	566.5	594.2
72.5°	373.1	391.5	387.0	396.1	396.1	405.4	396.1
75°	253.3	271.7	262.6	276.4	271.7	262.6	285.5
77.5°	170.5	179.7	184.3	188.8	184.3	179.7	184.3
80°	119.8	128.9	124.4	128.9	128.9	128.9	133.7
82.5°	73.8	87.6	82.9	87.6	82.9	87.6	87.6
85°	50.6	55.4	46.1	55.4	50.6	50.6	59.9
87.5°	32.2	27.7	27.7	32.2	27.7	32.2	27.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)