

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: P248988

Luminaire Tested: **LD8B120D010 ER8B120830 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248988
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: LD8B120D010 ER8B120830 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11733.0 lumens
Efficiency: N/A
Efficacy: 99.2 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

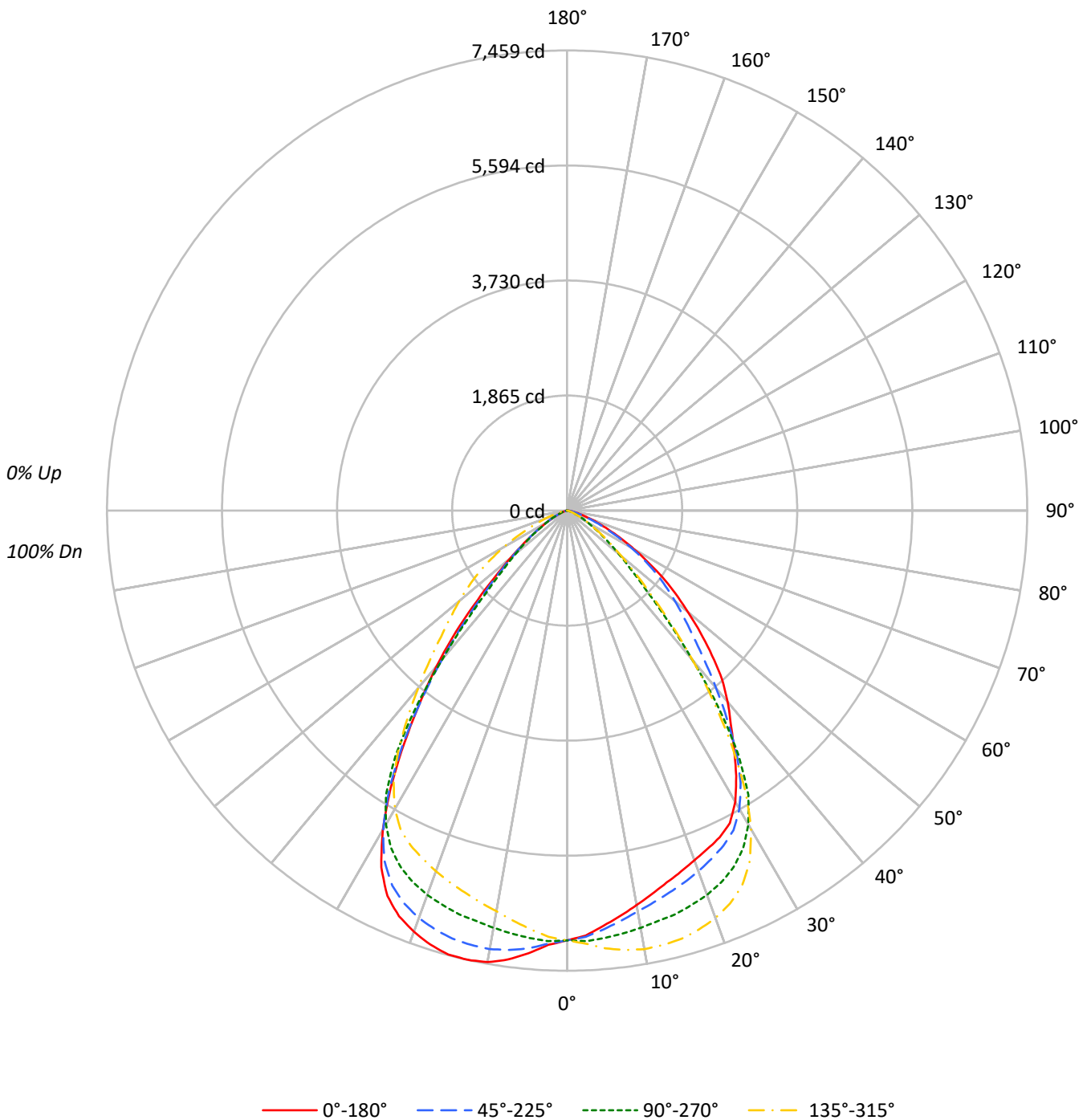
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	214790	214790	214790	214790
5°	209086	215295	222981	215295
10°	203303	215013	232692	215013
15°	199238	216289	237787	216289
20°	197883	217526	238397	217526
25°	198922	217091	234566	217091
30°	194003	209143	212903	209143
35°	177455	182446	173103	182446
40°	162920	126913	132532	126913
45°	144761	77424	89586	77424
50°	122532	51719	57433	51719
55°	101486	35289	37300	35289
60°	77399	23491	23701	23491
65°	54840	14637	13404	14637
70°	39553	9809	8899	9809
75°	25115	4873	4051	4873
80°	17527	3623	3001	3623
85°	15638	0	1203	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	663.0	5.7
10°-20°	1919.9	16.4
20°-30°	2907.1	24.8
30°-40°	2913.6	24.8
40°-50°	1829.6	15.6
50°-60°	975.0	8.3
60°-70°	400.9	3.4
70°-80°	105.9	0.9
80°-90°	17.9	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°	5490.0	46.8
0°-40°	8403.6	71.6
0°-60°	11208.2	95.5
0°-90°	11733.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11733.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	6966	6966	6966	6966	6966	
5°	6755	6955	7204	6955	6755	637
15°	6241	6775	7448	6775	6241	1765
25°	5846	6380	6894	6380	5846	2681
35°	4714	4847	4598	4847	4714	2953
45°	3320	1775	2054	1775	3320	2553
55°	1888	656	694	656	1888	1683
65°	752	201	184	201	752	780
75°	211	41	34	41	211	239
85°	44	0	3	0	44	49
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°	6965.5	6965.5	6965.5	6965.5	6965.5	6965.5	6965.5	6965.5	6965.5	6965.5	6965.5
2.5°	6894.1	6887.3	6883.9	6890.8	6894.1	6907.7	6904.3	6911.1	6911.1	6914.6	6921.3
5°	6754.7	6751.2	6754.7	6754.7	6768.3	6781.8	6778.5	6788.7	6795.4	6812.5	6819.2
7.5°	6625.5	6625.5	6622.0	6635.5	6642.4	6662.8	6659.3	6676.4	6686.6	6703.6	6727.4
10°	6492.8	6492.8	6496.1	6506.3	6509.8	6540.4	6540.4	6564.1	6577.7	6594.8	6625.5
12.5°	6363.5	6363.5	6384.0	6377.1	6390.7	6414.5	6424.7	6448.5	6469.0	6503.0	6533.6
15°	6241.0	6241.0	6247.9	6264.8	6275.1	6305.7	6322.7	6350.0	6373.8	6407.8	6452.0
17.5°	6135.6	6132.3	6135.6	6156.1	6176.5	6203.7	6217.2	6251.3	6275.1	6319.3	6360.2
20°	6030.2	6037.1	6037.1	6054.0	6067.6	6101.6	6115.2	6152.7	6179.9	6220.6	6268.3
22.5°	5938.4	5935.0	5935.0	5958.8	5969.0	5999.6	6013.1	6047.2	6077.8	6111.8	6156.1
25°	5846.5	5839.7	5853.4	5856.8	5863.5	5897.5	5907.7	5931.5	5962.2	5992.8	6037.1
27.5°	5710.5	5703.8	5707.1	5720.7	5730.9	5758.1	5764.9	5788.7	5812.5	5839.7	5877.2
30°	5448.5	5441.8	5438.5	5462.3	5472.5	5492.8	5503.0	5543.9	5550.6	5581.3	5608.4
32.5°	5101.6	5098.3	5105.1	5125.4	5135.7	5163.0	5176.5	5200.3	5217.3	5234.4	5261.5
35°	4714.0	4707.1	4714.0	4734.4	4734.4	4758.2	4768.5	4778.5	4775.2	4778.5	4771.8
37.5°	4353.5	4350.0	4353.5	4363.6	4353.5	4363.6	4353.5	4333.1	4295.7	4254.8	4213.9
40°	4047.3	4050.7	4030.4	4044.0	4006.5	3999.8	3962.4	3911.3	3836.5	3754.9	3639.3
42.5°	3720.9	3710.7	3697.1	3703.8	3673.3	3649.3	3588.2	3523.6	3428.3	3292.4	3152.8
45°	3319.5	3316.2	3309.3	3305.9	3285.5	3261.7	3210.6	3135.9	3030.4	2891.0	2724.3
47.5°	2928.4	2918.2	2918.2	2921.5	2897.7	2894.4	2853.5	2788.9	2697.1	2561.0	2387.6
50°	2554.2	2550.8	2557.7	2571.3	2554.2	2547.5	2520.3	2476.1	2394.4	2278.8	2115.4
52.5°	2217.5	2214.1	2221.0	2237.9	2231.1	2237.9	2210.8	2176.8	2122.3	2010.0	1867.2
55°	1887.7	1887.7	1887.7	1908.0	1908.0	1908.0	1894.4	1874.1	1823.0	1741.4	1608.8
57.5°	1544.1	1547.5	1567.9	1571.3	1567.9	1574.8	1571.3	1550.8	1517.0	1459.2	1357.1
60°	1255.0	1255.0	1265.3	1275.5	1272.0	1275.5	1275.5	1265.3	1231.2	1183.6	1102.0
62.5°	993.1	1003.3	996.5	1003.3	1016.9	1003.3	996.5	989.8	966.0	935.3	867.3
65°	751.6	758.5	758.5	761.8	755.0	758.5	744.9	734.7	721.1	687.1	642.8
67.5°	571.5	571.5	571.5	571.5	568.0	564.6	561.2	551.0	527.2	513.6	465.9
70°	438.7	418.3	418.3	418.3	418.3	421.8	411.6	398.0	391.1	367.3	333.3
72.5°	292.4	299.3	292.4	292.4	285.7	289.1	275.5	268.6	261.9	248.3	227.9
75°	210.8	193.9	200.6	204.1	193.9	200.6	187.0	173.5	173.5	163.2	153.0
77.5°	136.1	132.7	136.1	139.4	136.1	132.7	125.9	119.0	119.0	115.6	105.4
80°	98.7	95.2	95.2	95.2	91.8	95.2	88.5	88.5	81.6	78.3	71.4
82.5°	64.7	64.7	61.2	64.7	61.2	64.7	54.5	54.5	54.5	51.0	44.2
85°	44.2	37.4	37.4	40.9	34.0	40.9	37.4	34.0	30.7	30.7	27.2
87.5°	20.4	23.8	20.4	23.8	20.4	20.4	23.8	20.4	20.4	13.6	13.6
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	6965.5	6965.5	6965.5	6965.5	6965.5	6965.5	6965.5	6965.5	6965.5	6965.5	6965.5
2.5°	6931.5	6934.9	6934.9	6948.6	6955.3	6958.7	6958.7	6985.9	6975.7	6982.6	6989.3
5°	6832.9	6853.2	6860.1	6860.1	6897.5	6911.1	6924.6	6955.3	6958.7	6979.1	7002.9
7.5°	6737.6	6761.4	6775.1	6805.6	6829.4	6853.2	6894.1	6914.6	6934.9	6962.2	6992.7
10°	6645.8	6673.1	6700.2	6724.0	6761.4	6792.1	6819.2	6866.8	6890.8	6928.1	6968.9
12.5°	6557.4	6594.8	6618.6	6659.3	6700.2	6727.4	6768.3	6812.5	6849.9	6887.3	6934.9
15°	6479.2	6523.4	6550.6	6594.8	6639.0	6676.4	6720.7	6775.1	6802.3	6846.5	6890.8
17.5°	6394.1	6441.8	6475.8	6516.6	6571.0	6611.7	6649.3	6703.6	6737.6	6785.2	6836.3
20°	6305.7	6353.3	6394.1	6434.9	6489.4	6530.1	6574.4	6628.8	6666.2	6713.8	6754.7
22.5°	6200.3	6244.5	6288.6	6336.2	6390.7	6424.7	6475.8	6523.4	6564.1	6608.4	6649.3
25°	6064.2	6118.7	6152.7	6196.8	6241.0	6278.4	6332.9	6380.5	6414.5	6455.4	6492.8
27.5°	5904.4	5945.2	5972.4	6009.8	6054.0	6088.0	6128.8	6176.5	6210.5	6247.9	6275.1
30°	5632.2	5669.7	5693.5	5720.7	5764.9	5795.6	5829.6	5873.7	5897.5	5924.8	5948.6
32.5°	5275.1	5305.7	5319.3	5339.8	5370.4	5400.9	5428.2	5465.6	5475.8	5492.8	5492.8
35°	4758.2	4765.0	4761.6	4768.5	4782.0	4799.0	4822.8	4846.6	4860.2	4860.2	4850.1
37.5°	4152.8	4112.0	4067.8	4033.8	4023.5	4016.7	4030.4	4040.5	4054.2	4060.9	4044.0
40°	3523.6	3431.8	3333.1	3244.6	3183.4	3156.3	3146.1	3152.8	3152.8	3176.6	3176.6
42.5°	2982.8	2839.9	2693.8	2561.0	2472.6	2404.7	2374.0	2374.0	2377.4	2394.4	2404.7
45°	2533.9	2353.6	2183.5	2037.3	1914.8	1826.4	1785.6	1775.4	1772.0	1778.8	1802.6
47.5°	2190.3	2003.3	1826.4	1646.2	1517.0	1428.5	1391.1	1377.4	1363.8	1377.4	1380.9
50°	1921.7	1727.8	1540.8	1360.5	1224.4	1146.1	1098.5	1078.1	1074.7	1074.7	1081.6
52.5°	1676.7	1496.5	1309.5	1125.8	982.9	908.1	863.9	853.7	840.1	853.7	853.7
55°	1445.4	1265.3	1081.6	908.1	789.0	710.9	670.0	656.4	649.6	659.8	659.8
57.5°	1193.9	1040.7	870.8	714.2	595.3	540.8	510.1	493.2	489.7	496.6	489.7
60°	979.5	850.3	704.0	561.2	469.4	411.6	387.8	380.9	374.1	380.9	380.9
62.5°	775.4	666.6	547.5	438.7	360.5	319.7	292.4	292.4	289.1	289.1	292.4
65°	574.8	489.7	404.7	312.9	251.7	221.0	200.6	200.6	197.3	200.6	197.3
67.5°	418.3	360.5	292.4	227.9	180.3	163.2	149.7	139.4	146.3	139.4	136.1
70°	306.2	258.4	210.8	173.5	139.4	122.5	112.3	108.8	102.1	102.1	102.1
72.5°	204.1	173.5	142.8	112.3	91.8	74.8	71.4	64.7	57.8	61.2	68.0
75°	136.1	115.6	102.1	81.6	61.2	61.2	40.9	40.9	34.0	40.9	30.7
77.5°	95.2	78.3	61.2	51.0	40.9	37.4	27.2	27.2	23.8	23.8	23.8
80°	68.0	57.8	44.2	37.4	27.2	27.2	23.8	20.4	16.9	16.9	20.4
82.5°	40.9	30.7	30.7	27.2	16.9	13.6	10.2	13.6	6.9	6.9	6.9
85°	23.8	20.4	16.9	10.2	6.9	6.9	3.4	0.0	3.4	3.4	0.0
87.5°	13.6	6.9	6.9	3.4	0.0	3.4	3.4	0.0	0.0	0.0	6.9
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°	6965.5	6965.5	6965.5	6965.5	6965.5	6965.5	6965.5	6965.5	6965.5	6965.5	6965.5
2.5°	7006.4	7002.9	7009.7	7009.7	7030.2	7026.7	7036.9	7036.9	7030.2	7033.5	7047.1
5°	7030.2	7040.4	7060.7	7077.8	7108.3	7122.0	7139.0	7156.0	7159.4	7169.6	7179.8
7.5°	7030.2	7064.2	7088.0	7118.5	7159.4	7183.2	7220.6	7251.2	7264.8	7281.8	7302.2
10°	7016.5	7050.5	7094.7	7128.7	7179.8	7217.2	7254.6	7302.2	7322.6	7349.8	7377.1
12.5°	6989.3	7026.7	7074.3	7118.5	7176.3	7210.4	7258.0	7302.2	7332.9	7370.2	7400.9
15°	6948.6	6992.7	7036.9	7081.1	7142.3	7183.2	7227.4	7278.4	7309.1	7349.8	7377.1
17.5°	6883.9	6931.5	6972.4	7013.1	7070.9	7118.5	7159.4	7207.0	7237.7	7271.7	7309.1
20°	6805.6	6849.9	6894.1	6928.1	6985.9	7026.7	7070.9	7115.2	7139.0	7145.8	7203.6
22.5°	6707.1	6737.6	6771.6	6826.1	6860.1	6897.5	6938.4	6979.1	7002.9	7040.4	7060.7
25°	6543.7	6574.4	6611.7	6635.5	6676.4	6707.1	6747.8	6792.1	6805.6	6832.9	6853.2
27.5°	6315.9	6332.9	6350.0	6370.3	6394.1	6411.1	6434.9	6455.4	6469.0	6482.5	6496.1
30°	5955.3	5955.3	5955.3	5941.7	5952.0	5962.2	5965.5	5962.2	5962.2	5958.8	5958.8
32.5°	5479.2	5452.0	5421.4	5394.2	5384.0	5370.4	5363.6	5353.3	5336.4	5326.2	5329.5
35°	4836.4	4775.2	4737.8	4703.8	4676.6	4656.2	4646.0	4635.7	4632.4	4618.8	4605.1
37.5°	4033.8	3989.5	3962.4	3941.9	3918.1	3897.7	3901.1	3904.6	3914.6	3907.9	3911.3
40°	3183.4	3173.2	3183.4	3159.7	3152.8	3159.7	3176.6	3200.5	3214.1	3227.7	3251.5
42.5°	2421.6	2438.5	2462.5	2462.5	2472.6	2486.3	2506.6	2544.1	2564.4	2588.2	2615.5
45°	1823.0	1843.4	1874.1	1884.2	1891.0	1908.0	1931.9	1962.4	1976.0	1996.4	2020.2
47.5°	1404.7	1418.3	1435.2	1452.3	1469.2	1476.1	1499.9	1499.9	1517.0	1530.5	1537.3
50°	1095.2	1108.7	1122.3	1132.5	1139.4	1149.6	1156.3	1166.6	1169.9	1176.8	1180.1
52.5°	857.0	874.1	874.1	880.8	891.1	901.3	897.9	901.3	904.6	904.6	914.9
55°	670.0	670.0	680.2	680.2	687.1	683.6	687.1	687.1	687.1	687.1	690.4
57.5°	499.9	503.4	513.6	506.8	503.4	510.1	503.4	510.1	506.8	513.6	503.4
60°	384.3	384.3	387.8	387.8	391.1	391.1	391.1	387.8	387.8	384.3	384.3
62.5°	289.1	292.4	295.9	292.4	292.4	292.4	289.1	289.1	285.7	282.2	282.2
65°	193.9	190.5	197.3	190.5	193.9	193.9	190.5	193.9	183.7	187.0	183.7
67.5°	139.4	136.1	132.7	136.1	132.7	129.2	129.2	132.7	136.1	125.9	125.9
70°	91.8	95.2	91.8	95.2	98.7	98.7	95.2	91.8	95.2	88.5	91.8
72.5°	57.8	57.8	57.8	57.8	57.8	61.2	61.2	61.2	54.5	54.5	51.0
75°	27.2	37.4	30.7	27.2	37.4	37.4	34.0	34.0	30.7	30.7	30.7
77.5°	27.2	20.4	20.4	20.4	20.4	20.4	20.4	20.4	16.9	20.4	16.9
80°	13.6	13.6	13.6	10.2	13.6	13.6	16.9	13.6	13.6	10.2	16.9
82.5°	6.9	6.9	6.9	0.0	3.4	6.9	6.9	3.4	6.9	6.9	3.4
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: P248988

CATALOG NUMBER: LD8B120D010 ER8B120830 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	6965.5	6965.5	6965.5	6965.5	6965.5	6965.5	6965.5	6965.5	6965.5	6965.5	6965.5
2.5°	7043.8	7040.4	7043.8	7047.1	7043.8	7040.4	7043.8	7047.1	7033.5	7030.2	7036.9
5°	7193.4	7193.4	7200.1	7203.6	7200.1	7193.4	7193.4	7179.8	7169.6	7159.4	7156.0
7.5°	7322.6	7329.5	7336.2	7339.6	7336.2	7329.5	7322.6	7302.2	7281.8	7264.8	7251.2
10°	7400.9	7411.1	7424.7	7431.4	7424.7	7411.1	7400.9	7377.1	7349.8	7322.6	7302.2
12.5°	7434.9	7445.1	7462.1	7458.7	7462.1	7445.1	7434.9	7400.9	7370.2	7332.9	7302.2
15°	7411.1	7424.7	7441.6	7448.5	7441.6	7424.7	7411.1	7377.1	7349.8	7309.1	7278.4
17.5°	7336.2	7356.7	7366.9	7377.1	7366.9	7356.7	7336.2	7309.1	7271.7	7237.7	7207.0
20°	7234.2	7247.9	7261.5	7264.8	7261.5	7247.9	7234.2	7203.6	7145.8	7139.0	7115.2
22.5°	7088.0	7098.2	7128.7	7118.5	7128.7	7098.2	7088.0	7060.7	7040.4	7002.9	6979.1
25°	6877.0	6887.3	6890.8	6894.1	6890.8	6887.3	6877.0	6853.2	6832.9	6805.6	6792.1
27.5°	6513.2	6513.2	6519.9	6523.4	6519.9	6513.2	6513.2	6496.1	6482.5	6469.0	6455.4
30°	5962.2	5962.2	5962.2	5979.3	5962.2	5962.2	5962.2	5958.8	5958.8	5962.2	5962.2
32.5°	5326.2	5319.3	5312.6	5319.3	5312.6	5319.3	5326.2	5329.5	5326.2	5336.4	5353.3
35°	4605.1	4601.7	4611.9	4598.4	4611.9	4601.7	4605.1	4605.1	4618.8	4632.4	4635.7
37.5°	3914.6	3907.9	3921.5	3907.9	3921.5	3907.9	3914.6	3911.3	3907.9	3914.6	3904.6
40°	3258.3	3265.1	3265.1	3292.4	3265.1	3265.1	3258.3	3251.5	3227.7	3214.1	3200.5
42.5°	2629.1	2649.5	2642.7	2663.1	2642.7	2649.5	2629.1	2615.5	2588.2	2564.4	2544.1
45°	2033.8	2047.5	2047.5	2054.3	2047.5	2047.5	2033.8	2020.2	1996.4	1976.0	1962.4
47.5°	1561.1	1561.1	1561.1	1564.6	1561.1	1561.1	1561.1	1537.3	1530.5	1517.0	1499.9
50°	1187.0	1190.4	1193.9	1197.2	1193.9	1190.4	1187.0	1180.1	1176.8	1169.9	1166.6
52.5°	911.5	914.9	908.1	914.9	908.1	914.9	911.5	914.9	904.6	904.6	901.3
55°	690.4	687.1	690.4	693.8	690.4	687.1	690.4	690.4	687.1	687.1	687.1
57.5°	506.8	499.9	499.9	499.9	499.9	499.9	506.8	503.4	513.6	506.8	510.1
60°	377.6	380.9	380.9	384.3	380.9	380.9	377.6	384.3	384.3	387.8	387.8
62.5°	278.9	289.1	282.2	289.1	282.2	289.1	278.9	282.2	282.2	285.7	289.1
65°	180.3	180.3	180.3	183.7	180.3	180.3	180.3	183.7	187.0	183.7	193.9
67.5°	122.5	125.9	132.7	129.2	132.7	125.9	122.5	125.9	125.9	136.1	132.7
70°	98.7	88.5	88.5	98.7	88.5	88.5	98.7	91.8	88.5	95.2	91.8
72.5°	57.8	51.0	57.8	57.8	57.8	51.0	57.8	51.0	54.5	54.5	61.2
75°	30.7	27.2	23.8	34.0	23.8	27.2	30.7	30.7	30.7	30.7	34.0
77.5°	20.4	16.9	23.8	23.8	23.8	16.9	20.4	16.9	20.4	16.9	20.4
80°	10.2	13.6	10.2	16.9	10.2	13.6	10.2	16.9	10.2	13.6	13.6
82.5°	3.4	6.9	6.9	6.9	6.9	6.9	3.4	3.4	6.9	6.9	3.4
85°	0.0	6.9	3.4	3.4	3.4	6.9	0.0	0.0	0.0	0.0	0.0
87.5°	3.4	0.0	0.0	3.4	0.0	0.0	3.4	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: P248988

CATALOG NUMBER: LD8B120D010 ER8B120830 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	6965.5	6965.5	6965.5	6965.5	6965.5	6965.5	6965.5	6965.5	6965.5	6965.5	6965.5
2.5°	7036.9	7026.7	7030.2	7009.7	7009.7	7002.9	7006.4	6989.3	6982.6	6975.7	6985.9
5°	7139.0	7122.0	7108.3	7077.8	7060.7	7040.4	7030.2	7002.9	6979.1	6958.7	6955.3
7.5°	7220.6	7183.2	7159.4	7118.5	7088.0	7064.2	7030.2	6992.7	6962.2	6934.9	6914.6
10°	7254.6	7217.2	7179.8	7128.7	7094.7	7050.5	7016.5	6968.9	6928.1	6890.8	6866.8
12.5°	7258.0	7210.4	7176.3	7118.5	7074.3	7026.7	6989.3	6934.9	6887.3	6849.9	6812.5
15°	7227.4	7183.2	7142.3	7081.1	7036.9	6992.7	6948.6	6890.8	6846.5	6802.3	6775.1
17.5°	7159.4	7118.5	7070.9	7013.1	6972.4	6931.5	6883.9	6836.3	6785.2	6737.6	6703.6
20°	7070.9	7026.7	6985.9	6928.1	6894.1	6849.9	6805.6	6754.7	6713.8	6666.2	6628.8
22.5°	6938.4	6897.5	6860.1	6826.1	6771.6	6737.6	6707.1	6649.3	6608.4	6564.1	6523.4
25°	6747.8	6707.1	6676.4	6635.5	6611.7	6574.4	6543.7	6492.8	6455.4	6414.5	6380.5
27.5°	6434.9	6411.1	6394.1	6370.3	6350.0	6332.9	6315.9	6275.1	6247.9	6210.5	6176.5
30°	5965.5	5962.2	5952.0	5941.7	5955.3	5955.3	5955.3	5948.6	5924.8	5897.5	5873.7
32.5°	5363.6	5370.4	5384.0	5394.2	5421.4	5452.0	5479.2	5492.8	5492.8	5475.8	5465.6
35°	4646.0	4656.2	4676.6	4703.8	4737.8	4775.2	4836.4	4850.1	4860.2	4860.2	4846.6
37.5°	3901.1	3897.7	3918.1	3941.9	3962.4	3989.5	4033.8	4044.0	4060.9	4054.2	4040.5
40°	3176.6	3159.7	3152.8	3159.7	3183.4	3173.2	3183.4	3176.6	3176.6	3152.8	3152.8
42.5°	2506.6	2486.3	2472.6	2462.5	2462.5	2438.5	2421.6	2404.7	2394.4	2377.4	2374.0
45°	1931.9	1908.0	1891.0	1884.2	1874.1	1843.4	1823.0	1802.6	1778.8	1772.0	1775.4
47.5°	1499.9	1476.1	1469.2	1452.3	1435.2	1418.3	1404.7	1380.9	1377.4	1363.8	1377.4
50°	1156.3	1149.6	1139.4	1132.5	1122.3	1108.7	1095.2	1081.6	1074.7	1074.7	1078.1
52.5°	897.9	901.3	891.1	880.8	874.1	874.1	857.0	853.7	853.7	840.1	853.7
55°	687.1	683.6	687.1	680.2	680.2	670.0	670.0	659.8	659.8	649.6	656.4
57.5°	503.4	510.1	503.4	506.8	513.6	503.4	499.9	489.7	496.6	489.7	493.2
60°	391.1	391.1	391.1	387.8	387.8	384.3	384.3	380.9	380.9	374.1	380.9
62.5°	289.1	292.4	292.4	292.4	295.9	292.4	289.1	292.4	289.1	289.1	292.4
65°	190.5	193.9	193.9	190.5	197.3	190.5	193.9	197.3	200.6	197.3	200.6
67.5°	129.2	129.2	132.7	136.1	132.7	136.1	139.4	136.1	139.4	146.3	139.4
70°	95.2	98.7	98.7	95.2	91.8	95.2	91.8	102.1	102.1	102.1	108.8
72.5°	61.2	61.2	57.8	57.8	57.8	57.8	57.8	68.0	61.2	57.8	64.7
75°	34.0	37.4	37.4	27.2	30.7	37.4	27.2	30.7	40.9	34.0	40.9
77.5°	20.4	20.4	20.4	20.4	20.4	20.4	27.2	23.8	23.8	23.8	27.2
80°	16.9	13.6	13.6	10.2	13.6	13.6	13.6	20.4	16.9	16.9	20.4
82.5°	6.9	6.9	3.4	0.0	6.9	6.9	6.9	6.9	6.9	6.9	13.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P248988

CATALOG NUMBER: LD8B120D010 ER8B120830 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	6965.5	6965.5	6965.5	6965.5	6965.5	6965.5	6965.5	6965.5	6965.5	6965.5	6965.5
2.5°	6958.7	6958.7	6955.3	6948.6	6934.9	6934.9	6931.5	6921.3	6914.6	6911.1	6911.1
5°	6924.6	6911.1	6897.5	6860.1	6860.1	6853.2	6832.9	6819.2	6812.5	6795.4	6788.7
7.5°	6894.1	6853.2	6829.4	6805.6	6775.1	6761.4	6737.6	6727.4	6703.6	6686.6	6676.4
10°	6819.2	6792.1	6761.4	6724.0	6700.2	6673.1	6645.8	6625.5	6594.8	6577.7	6564.1
12.5°	6768.3	6727.4	6700.2	6659.3	6618.6	6594.8	6557.4	6533.6	6503.0	6469.0	6448.5
15°	6720.7	6676.4	6639.0	6594.8	6550.6	6523.4	6479.2	6452.0	6407.8	6373.8	6350.0
17.5°	6649.3	6611.7	6571.0	6516.6	6475.8	6441.8	6394.1	6360.2	6319.3	6275.1	6251.3
20°	6574.4	6530.1	6489.4	6434.9	6394.1	6353.3	6305.7	6268.3	6220.6	6179.9	6152.7
22.5°	6475.8	6424.7	6390.7	6336.2	6288.6	6244.5	6200.3	6156.1	6111.8	6077.8	6047.2
25°	6332.9	6278.4	6241.0	6196.8	6152.7	6118.7	6064.2	6037.1	5992.8	5962.2	5931.5
27.5°	6128.8	6088.0	6054.0	6009.8	5972.4	5945.2	5904.4	5877.2	5839.7	5812.5	5788.7
30°	5829.6	5795.6	5764.9	5720.7	5693.5	5669.7	5632.2	5608.4	5581.3	5550.6	5543.9
32.5°	5428.2	5400.9	5370.4	5339.8	5319.3	5305.7	5275.1	5261.5	5234.4	5217.3	5200.3
35°	4822.8	4799.0	4782.0	4768.5	4761.6	4765.0	4758.2	4771.8	4778.5	4775.2	4778.5
37.5°	4030.4	4016.7	4023.5	4033.8	4067.8	4112.0	4152.8	4213.9	4254.8	4295.7	4333.1
40°	3146.1	3156.3	3183.4	3244.6	3333.1	3431.8	3523.6	3639.3	3754.9	3836.5	3911.3
42.5°	2374.0	2404.7	2472.6	2561.0	2693.8	2839.9	2982.8	3152.8	3292.4	3428.3	3523.6
45°	1785.6	1826.4	1914.8	2037.3	2183.5	2353.6	2533.9	2724.3	2891.0	3030.4	3135.9
47.5°	1391.1	1428.5	1517.0	1646.2	1826.4	2003.3	2190.3	2387.6	2561.0	2697.1	2788.9
50°	1098.5	1146.1	1224.4	1360.5	1540.8	1727.8	1921.7	2115.4	2278.8	2394.4	2476.1
52.5°	863.9	908.1	982.9	1125.8	1309.5	1496.5	1676.7	1867.2	2010.0	2122.3	2176.8
55°	670.0	710.9	789.0	908.1	1081.6	1265.3	1445.4	1608.8	1741.4	1823.0	1874.1
57.5°	510.1	540.8	595.3	714.2	870.8	1040.7	1193.9	1357.1	1459.2	1517.0	1550.8
60°	387.8	411.6	469.4	561.2	704.0	850.3	979.5	1102.0	1183.6	1231.2	1265.3
62.5°	292.4	319.7	360.5	438.7	547.5	666.6	775.4	867.3	935.3	966.0	989.8
65°	200.6	221.0	251.7	312.9	404.7	489.7	574.8	642.8	687.1	721.1	734.7
67.5°	149.7	163.2	180.3	227.9	292.4	360.5	418.3	465.9	513.6	527.2	551.0
70°	112.3	122.5	139.4	173.5	210.8	258.4	306.2	333.3	367.3	391.1	398.0
72.5°	71.4	74.8	91.8	112.3	142.8	173.5	204.1	227.9	248.3	261.9	268.6
75°	40.9	61.2	61.2	81.6	102.1	115.6	136.1	153.0	163.2	173.5	173.5
77.5°	27.2	37.4	40.9	51.0	61.2	78.3	95.2	105.4	115.6	119.0	119.0
80°	23.8	27.2	27.2	37.4	44.2	57.8	68.0	71.4	78.3	81.6	88.5
82.5°	10.2	13.6	16.9	27.2	30.7	30.7	40.9	44.2	51.0	54.5	54.5
85°	3.4	6.9	6.9	10.2	16.9	20.4	23.8	27.2	30.7	30.7	34.0
87.5°	3.4	3.4	0.0	3.4	6.9	6.9	13.6	13.6	13.6	20.4	20.4
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: P248988

CATALOG NUMBER: LD8B120D010 ER8B120830 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	6965.5	6965.5	6965.5	6965.5	6965.5	6965.5	6965.5
2.5°	6904.3	6907.7	6894.1	6890.8	6883.9	6887.3	6894.1
5°	6778.5	6781.8	6768.3	6754.7	6754.7	6751.2	6754.7
7.5°	6659.3	6662.8	6642.4	6635.5	6622.0	6625.5	6625.5
10°	6540.4	6540.4	6509.8	6506.3	6496.1	6492.8	6492.8
12.5°	6424.7	6414.5	6390.7	6377.1	6384.0	6363.5	6363.5
15°	6322.7	6305.7	6275.1	6264.8	6247.9	6241.0	6241.0
17.5°	6217.2	6203.7	6176.5	6156.1	6135.6	6132.3	6135.6
20°	6115.2	6101.6	6067.6	6054.0	6037.1	6037.1	6030.2
22.5°	6013.1	5999.6	5969.0	5958.8	5935.0	5935.0	5938.4
25°	5907.7	5897.5	5863.5	5856.8	5853.4	5839.7	5846.5
27.5°	5764.9	5758.1	5730.9	5720.7	5707.1	5703.8	5710.5
30°	5503.0	5492.8	5472.5	5462.3	5438.5	5441.8	5448.5
32.5°	5176.5	5163.0	5135.7	5125.4	5105.1	5098.3	5101.6
35°	4768.5	4758.2	4734.4	4734.4	4714.0	4707.1	4714.0
37.5°	4353.5	4363.6	4353.5	4363.6	4353.5	4350.0	4353.5
40°	3962.4	3999.8	4006.5	4044.0	4030.4	4050.7	4047.3
42.5°	3588.2	3649.3	3673.3	3703.8	3697.1	3710.7	3720.9
45°	3210.6	3261.7	3285.5	3305.9	3309.3	3316.2	3319.5
47.5°	2853.5	2894.4	2897.7	2921.5	2918.2	2918.2	2928.4
50°	2520.3	2547.5	2554.2	2571.3	2557.7	2550.8	2554.2
52.5°	2210.8	2237.9	2231.1	2237.9	2221.0	2214.1	2217.5
55°	1894.4	1908.0	1908.0	1908.0	1887.7	1887.7	1887.7
57.5°	1571.3	1574.8	1567.9	1571.3	1567.9	1547.5	1544.1
60°	1275.5	1275.5	1272.0	1275.5	1265.3	1255.0	1255.0
62.5°	996.5	1003.3	1016.9	1003.3	996.5	1003.3	993.1
65°	744.9	758.5	755.0	761.8	758.5	758.5	751.6
67.5°	561.2	564.6	568.0	571.5	571.5	571.5	571.5
70°	411.6	421.8	418.3	418.3	418.3	418.3	438.7
72.5°	275.5	289.1	285.7	292.4	292.4	299.3	292.4
75°	187.0	200.6	193.9	204.1	200.6	193.9	210.8
77.5°	125.9	132.7	136.1	139.4	136.1	132.7	136.1
80°	88.5	95.2	91.8	95.2	95.2	95.2	98.7
82.5°	54.5	64.7	61.2	64.7	61.2	64.7	64.7
85°	37.4	40.9	34.0	40.9	37.4	37.4	44.2
87.5°	23.8	20.4	20.4	23.8	20.4	23.8	20.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)