

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: P249079

Luminaire Tested: **LD8B150D010 ER8B150930 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249079
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: LD8B150D010 ER8B150930 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13279.4 lumens
Efficiency: N/A
Efficacy: 83.8 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

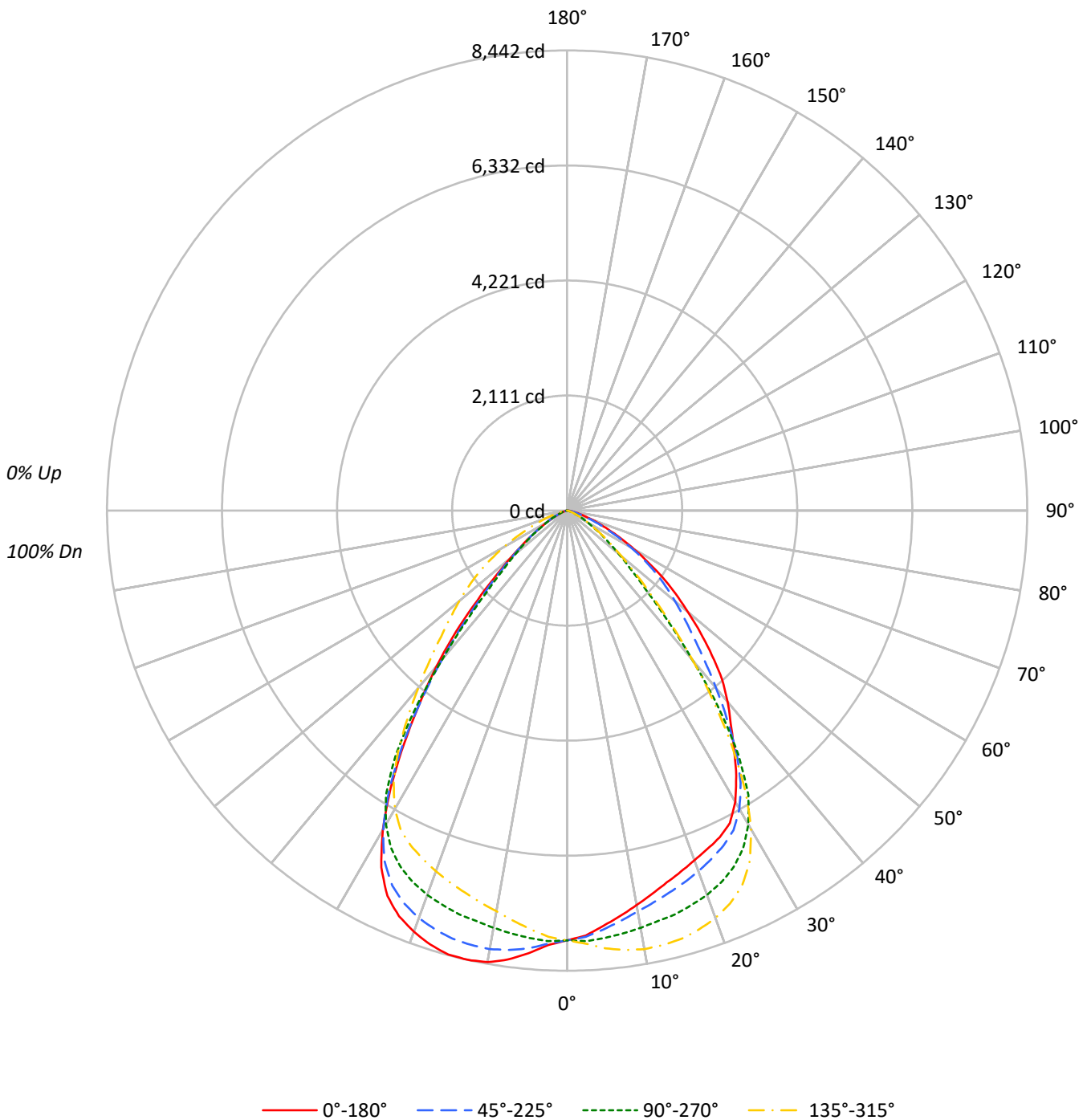
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	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°	750.4	5.7
10°-20°	2172.9	16.4
20°-30°	3290.3	24.8
30°-40°	3297.6	24.8
40°-50°	2070.8	15.6
50°-60°	1103.5	8.3
60°-70°	453.8	3.4
70°-80°	119.9	0.9
80°-90°	20.3	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°	6213.5	46.8
0°-40°	9511.2	71.6
0°-60°	12685.4	95.5
0°-90°	13279.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13279.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	7884	7884	7884	7884	7884	
5°	7645	7872	8153	7872	7645	721
15°	7064	7668	8430	7668	7064	1998
25°	6617	7221	7803	7221	6617	3035
35°	5335	5485	5204	5485	5335	3343
45°	3757	2009	2325	2009	3757	2889
55°	2136	743	785	743	2136	1905
65°	851	227	208	227	851	882
75°	239	46	38	46	239	270
85°	50	0	4	0	50	55
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°	7883.5	7883.5	7883.5	7883.5	7883.5	7883.5	7883.5	7883.5	7883.5	7883.5	7883.5
2.5°	7802.7	7795.0	7791.2	7798.9	7802.7	7818.1	7814.3	7821.9	7821.9	7825.8	7833.4
5°	7644.9	7641.0	7644.9	7644.9	7660.2	7675.7	7671.9	7683.4	7691.1	7710.4	7718.0
7.5°	7498.7	7498.7	7494.7	7510.1	7517.9	7541.0	7537.0	7556.3	7567.9	7587.0	7614.1
10°	7348.5	7348.5	7352.3	7363.8	7367.8	7402.3	7402.3	7429.3	7444.7	7464.0	7498.7
12.5°	7202.2	7202.2	7225.4	7217.6	7232.9	7259.9	7271.5	7298.4	7321.6	7360.0	7394.8
15°	7063.6	7063.6	7071.4	7090.5	7102.1	7136.8	7156.0	7186.8	7213.7	7252.3	7302.4
17.5°	6944.3	6940.4	6944.3	6967.5	6990.6	7021.3	7036.6	7075.2	7102.1	7152.2	7198.4
20°	6825.0	6832.7	6832.7	6851.9	6867.2	6905.8	6921.2	6963.7	6994.4	7040.4	7094.5
22.5°	6721.1	6717.3	6717.3	6744.2	6755.7	6790.2	6805.6	6844.2	6878.8	6917.4	6967.5
25°	6617.2	6609.3	6624.9	6628.7	6636.3	6674.8	6686.3	6713.2	6748.0	6782.7	6832.7
27.5°	6463.1	6455.5	6459.3	6474.7	6486.2	6516.9	6524.7	6551.7	6578.6	6609.3	6651.8
30°	6166.6	6159.0	6155.2	6182.2	6193.7	6216.7	6228.3	6274.6	6282.2	6316.8	6347.6
32.5°	5774.0	5770.2	5778.0	5801.0	5812.5	5843.4	5858.8	5885.7	5904.9	5924.3	5955.0
35°	5335.3	5327.6	5335.3	5358.4	5358.4	5385.4	5396.9	5408.4	5404.6	5408.4	5400.8
37.5°	4927.2	4923.3	4927.2	4938.7	4927.2	4938.7	4927.2	4904.2	4861.9	4815.6	4769.3
40°	4580.7	4584.6	4561.6	4576.9	4534.6	4526.9	4484.6	4426.7	4342.2	4249.8	4118.9
42.5°	4211.3	4199.7	4184.4	4192.0	4157.5	4130.3	4061.0	3988.1	3880.1	3726.3	3568.4
45°	3757.0	3753.2	3745.5	3741.7	3718.5	3691.6	3633.7	3549.2	3429.8	3272.0	3083.3
47.5°	3314.3	3302.8	3302.8	3306.6	3279.6	3275.8	3229.6	3156.5	3052.6	2898.6	2702.3
50°	2890.8	2887.0	2894.8	2910.1	2890.8	2883.2	2852.5	2802.4	2710.0	2579.2	2394.2
52.5°	2509.8	2506.0	2513.7	2532.9	2525.2	2532.9	2502.2	2463.6	2402.0	2275.0	2113.3
55°	2136.5	2136.5	2136.5	2159.4	2159.4	2159.4	2144.0	2121.0	2063.3	1970.8	1820.8
57.5°	1747.6	1751.5	1774.5	1778.4	1774.5	1782.4	1778.4	1755.3	1716.9	1651.5	1536.0
60°	1420.4	1420.4	1432.0	1443.6	1439.6	1443.6	1443.6	1432.0	1393.5	1339.6	1247.2
62.5°	1124.0	1135.6	1127.8	1135.6	1150.9	1135.6	1127.8	1120.2	1093.3	1058.6	981.5
65°	850.7	858.5	858.5	862.3	854.5	858.5	843.1	831.6	816.2	777.6	727.5
67.5°	646.8	646.8	646.8	646.8	642.8	639.0	635.2	623.6	596.7	581.4	527.3
70°	496.6	473.4	473.4	473.4	473.4	477.4	465.8	450.4	442.7	415.8	377.2
72.5°	331.0	338.8	331.0	331.0	323.4	327.2	311.9	304.0	296.5	281.0	257.9
75°	238.7	219.5	227.0	231.0	219.5	227.0	211.6	196.3	196.3	184.7	173.2
77.5°	154.0	150.2	154.0	157.8	154.0	150.2	142.5	134.6	134.6	130.8	119.3
80°	111.7	107.7	107.7	107.7	103.9	107.7	100.1	100.1	92.4	88.6	80.8
82.5°	73.2	73.2	69.3	73.2	69.3	73.2	61.7	61.7	61.7	57.6	50.1
85°	50.1	42.3	42.3	46.3	38.5	46.3	42.3	38.5	34.8	34.8	30.7
87.5°	23.1	26.9	23.1	26.9	23.1	23.1	26.9	23.1	23.1	15.4	15.4
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°	7883.5	7883.5	7883.5	7883.5	7883.5	7883.5	7883.5	7883.5	7883.5	7883.5	7883.5
2.5°	7845.0	7848.8	7848.8	7864.4	7872.0	7875.8	7875.8	7906.6	7895.1	7902.8	7910.4
5°	7733.4	7756.4	7764.3	7764.3	7806.5	7821.9	7837.2	7872.0	7875.8	7898.9	7925.8
7.5°	7625.6	7652.5	7668.1	7702.6	7729.5	7756.4	7802.7	7825.8	7848.8	7879.7	7914.3
10°	7521.7	7552.5	7583.3	7610.2	7652.5	7687.3	7718.0	7771.8	7798.9	7841.3	7887.4
12.5°	7421.7	7464.0	7491.0	7537.0	7583.3	7614.1	7660.2	7710.4	7752.6	7795.0	7848.8
15°	7333.1	7383.1	7414.0	7464.0	7514.1	7556.3	7606.4	7668.1	7698.8	7748.9	7798.9
17.5°	7236.7	7290.8	7329.3	7375.4	7437.1	7483.1	7525.6	7587.0	7625.6	7679.4	7737.3
20°	7136.8	7190.7	7236.7	7283.0	7344.7	7390.8	7440.9	7502.5	7544.8	7598.7	7644.9
22.5°	7017.5	7067.6	7117.5	7171.4	7232.9	7271.5	7329.3	7383.1	7429.3	7479.3	7525.6
25°	6863.4	6925.1	6963.7	7013.5	7063.6	7105.9	7167.6	7221.4	7259.9	7306.1	7348.5
27.5°	6682.5	6728.8	6759.5	6801.9	6851.9	6890.5	6936.5	6990.6	7029.0	7071.4	7102.1
30°	6374.6	6416.9	6444.0	6474.7	6524.7	6559.4	6597.9	6647.9	6674.8	6705.7	6732.6
32.5°	5970.3	6005.0	6020.4	6043.5	6078.2	6112.8	6143.6	6186.0	6197.6	6216.7	6216.7
35°	5385.4	5392.9	5389.2	5396.9	5412.3	5431.5	5458.4	5485.3	5500.7	5500.7	5489.3
37.5°	4700.1	4653.9	4603.9	4565.4	4553.8	4546.1	4561.6	4573.0	4588.6	4596.1	4576.9
40°	3988.1	3884.0	3772.4	3672.3	3603.0	3572.3	3560.7	3568.4	3568.4	3595.3	3595.3
42.5°	3376.0	3214.2	3048.8	2898.6	2798.5	2721.6	2686.9	2686.9	2690.7	2710.0	2721.6
45°	2867.9	2663.7	2471.2	2305.8	2167.2	2067.0	2020.9	2009.4	2005.6	2013.2	2040.1
47.5°	2479.0	2267.3	2067.0	1863.1	1716.9	1616.8	1574.4	1559.0	1543.6	1559.0	1562.9
50°	2175.0	1955.5	1743.8	1539.8	1385.8	1297.2	1243.3	1220.2	1216.4	1216.4	1224.1
52.5°	1897.6	1693.7	1482.1	1274.2	1112.5	1027.8	977.7	966.2	950.8	966.2	966.2
55°	1636.0	1432.0	1224.1	1027.8	893.0	804.5	758.4	743.0	735.2	746.7	746.7
57.5°	1351.3	1177.8	985.5	808.4	673.7	612.1	577.3	558.1	554.2	562.0	554.2
60°	1108.7	962.4	796.8	635.2	531.2	465.8	438.9	431.1	423.4	431.1	431.1
62.5°	877.6	754.5	619.7	496.6	408.0	361.9	331.0	331.0	327.2	327.2	331.0
65°	650.5	554.2	458.0	354.1	284.8	250.2	227.0	227.0	223.3	227.0	223.3
67.5°	473.4	408.0	331.0	257.9	204.0	184.7	169.4	157.8	165.6	157.8	154.0
70°	346.5	292.5	238.7	196.3	157.8	138.7	127.1	123.1	115.5	115.5	115.5
72.5°	231.0	196.3	161.6	127.1	103.9	84.6	80.8	73.2	65.5	69.3	77.0
75°	154.0	130.8	115.5	92.4	69.3	69.3	46.3	46.3	38.5	46.3	34.8
77.5°	107.7	88.6	69.3	57.6	46.3	42.3	30.7	30.7	26.9	26.9	26.9
80°	77.0	65.5	50.1	42.3	30.7	30.7	26.9	23.1	19.2	19.2	23.1
82.5°	46.3	34.8	34.8	30.7	19.2	15.4	11.5	15.4	7.7	7.7	7.7
85°	26.9	23.1	19.2	11.5	7.7	7.7	3.8	0.0	3.8	3.8	0.0
87.5°	15.4	7.7	7.7	3.8	0.0	3.8	3.8	0.0	0.0	0.0	7.7
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°	7883.5	7883.5	7883.5	7883.5	7883.5	7883.5	7883.5	7883.5	7883.5	7883.5	7883.5
2.5°	7929.8	7925.8	7933.7	7933.7	7956.7	7952.8	7964.4	7964.4	7956.7	7960.6	7975.9
5°	7956.7	7968.3	7991.3	8010.7	8045.2	8060.7	8079.8	8099.2	8103.0	8114.6	8126.1
7.5°	7956.7	7995.2	8022.2	8056.7	8103.0	8129.9	8172.2	8207.0	8222.3	8241.5	8264.6
10°	7941.2	7979.7	8029.8	8068.3	8126.1	8168.4	8210.8	8264.6	8287.8	8318.5	8349.3
12.5°	7910.4	7952.8	8006.6	8056.7	8122.2	8160.7	8214.6	8264.6	8299.3	8341.6	8376.3
15°	7864.4	7914.3	7964.4	8014.4	8083.6	8129.9	8179.9	8237.7	8272.3	8318.5	8349.3
17.5°	7791.2	7845.0	7891.3	7937.5	8002.8	8056.7	8103.0	8156.8	8191.6	8230.0	8272.3
20°	7702.6	7752.6	7802.7	7841.3	7906.6	7952.8	8002.8	8052.9	8079.8	8087.6	8153.0
22.5°	7591.1	7625.6	7664.1	7725.7	7764.3	7806.5	7852.8	7898.9	7925.8	7968.3	7991.3
25°	7406.1	7440.9	7483.1	7510.1	7556.3	7591.1	7637.1	7687.3	7702.6	7733.4	7756.4
27.5°	7148.4	7167.6	7186.8	7209.8	7236.7	7256.1	7283.0	7306.1	7321.6	7336.9	7352.3
30°	6740.2	6740.2	6740.2	6724.9	6736.4	6748.0	6751.8	6748.0	6748.0	6744.2	6744.2
32.5°	6201.4	6170.7	6135.9	6105.2	6093.6	6078.2	6070.4	6058.9	6039.7	6028.2	6032.0
35°	5473.7	5404.6	5362.2	5323.7	5293.0	5269.8	5258.3	5246.7	5242.9	5227.6	5212.0
37.5°	4565.4	4515.4	4484.6	4461.5	4434.6	4411.4	4415.2	4419.2	4430.5	4423.0	4426.7
40°	3603.0	3591.5	3603.0	3576.1	3568.4	3576.1	3595.3	3622.4	3637.8	3653.1	3680.0
42.5°	2740.7	2759.9	2787.0	2787.0	2798.5	2813.9	2836.9	2879.4	2902.4	2929.3	2960.2
45°	2063.3	2086.4	2121.0	2132.5	2140.2	2159.4	2186.5	2221.0	2236.4	2259.6	2286.5
47.5°	1589.8	1605.2	1624.3	1643.7	1662.9	1670.6	1697.5	1697.5	1716.9	1732.3	1739.9
50°	1239.5	1254.8	1270.2	1281.9	1289.6	1301.1	1308.8	1320.3	1324.1	1331.9	1335.7
52.5°	970.0	989.3	989.3	996.9	1008.5	1020.1	1016.3	1020.1	1023.8	1023.8	1035.5
55°	758.4	758.4	769.9	769.9	777.6	773.7	777.6	777.6	777.6	777.6	781.4
57.5°	565.8	569.8	581.4	573.6	569.8	577.3	569.8	577.3	573.6	581.4	569.8
60°	434.9	434.9	438.9	438.9	442.7	442.7	442.7	438.9	438.9	434.9	434.9
62.5°	327.2	331.0	335.0	331.0	331.0	331.0	327.2	327.2	323.4	319.4	319.4
65°	219.5	215.7	223.3	215.7	219.5	219.5	215.7	219.5	207.8	211.6	207.8
67.5°	157.8	154.0	150.2	154.0	150.2	146.3	146.3	150.2	154.0	142.5	142.5
70°	103.9	107.7	103.9	107.7	111.7	111.7	107.7	103.9	107.7	100.1	103.9
72.5°	65.5	65.5	65.5	65.5	65.5	69.3	69.3	69.3	61.7	61.7	57.6
75°	30.7	42.3	34.8	30.7	42.3	42.3	38.5	38.5	34.8	34.8	34.8
77.5°	30.7	23.1	23.1	23.1	23.1	23.1	23.1	23.1	19.2	23.1	19.2
80°	15.4	15.4	15.4	11.5	15.4	15.4	19.2	15.4	15.4	11.5	19.2
82.5°	7.7	7.7	7.7	0.0	3.8	7.7	7.7	3.8	7.7	7.7	3.8
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: P249079

CATALOG NUMBER: LD8B150D010 ER8B150930 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	7883.5	7883.5	7883.5	7883.5	7883.5	7883.5	7883.5	7883.5	7883.5	7883.5	7883.5
2.5°	7972.1	7968.3	7972.1	7975.9	7972.1	7968.3	7972.1	7975.9	7960.6	7956.7	7964.4
5°	8141.5	8141.5	8149.1	8153.0	8149.1	8141.5	8141.5	8126.1	8114.6	8103.0	8099.2
7.5°	8287.8	8295.5	8303.1	8306.9	8303.1	8295.5	8287.8	8264.6	8241.5	8222.3	8207.0
10°	8376.3	8387.9	8403.2	8410.9	8403.2	8387.9	8376.3	8349.3	8318.5	8287.8	8264.6
12.5°	8414.8	8426.3	8445.5	8441.7	8445.5	8426.3	8414.8	8376.3	8341.6	8299.3	8264.6
15°	8387.9	8403.2	8422.4	8430.1	8422.4	8403.2	8387.9	8349.3	8318.5	8272.3	8237.7
17.5°	8303.1	8326.2	8337.8	8349.3	8337.8	8326.2	8303.1	8272.3	8230.0	8191.6	8156.8
20°	8187.6	8203.1	8218.5	8222.3	8218.5	8203.1	8187.6	8153.0	8087.6	8079.8	8052.9
22.5°	8022.2	8033.8	8068.3	8056.7	8068.3	8033.8	8022.2	7991.3	7968.3	7925.8	7898.9
25°	7783.4	7795.0	7798.9	7802.7	7798.9	7795.0	7783.4	7756.4	7733.4	7702.6	7687.3
27.5°	7371.6	7371.6	7379.2	7383.1	7379.2	7371.6	7371.6	7352.3	7336.9	7321.6	7306.1
30°	6748.0	6748.0	6748.0	6767.3	6748.0	6748.0	6748.0	6744.2	6744.2	6748.0	6748.0
32.5°	6028.2	6020.4	6012.8	6020.4	6012.8	6020.4	6028.2	6032.0	6028.2	6039.7	6058.9
35°	5212.0	5208.2	5219.8	5204.4	5219.8	5208.2	5212.0	5212.0	5227.6	5242.9	5246.7
37.5°	4430.5	4423.0	4438.4	4423.0	4438.4	4423.0	4430.5	4426.7	4423.0	4430.5	4419.2
40°	3687.8	3695.4	3695.4	3726.3	3695.4	3695.4	3687.8	3680.0	3653.1	3637.8	3622.4
42.5°	2975.6	2998.7	2990.9	3014.0	2990.9	2998.7	2975.6	2960.2	2929.3	2902.4	2879.4
45°	2301.9	2317.4	2317.4	2325.0	2317.4	2317.4	2301.9	2286.5	2259.6	2236.4	2221.0
47.5°	1766.8	1766.8	1766.8	1770.7	1766.8	1766.8	1766.8	1739.9	1732.3	1716.9	1697.5
50°	1343.4	1347.2	1351.3	1355.1	1351.3	1347.2	1343.4	1335.7	1331.9	1324.1	1320.3
52.5°	1031.7	1035.5	1027.8	1035.5	1027.8	1035.5	1031.7	1035.5	1023.8	1023.8	1020.1
55°	781.4	777.6	781.4	785.3	781.4	777.6	781.4	781.4	777.6	777.6	777.6
57.5°	573.6	565.8	565.8	565.8	565.8	565.8	573.6	569.8	581.4	573.6	577.3
60°	427.3	431.1	431.1	434.9	431.1	431.1	427.3	434.9	434.9	438.9	438.9
62.5°	315.7	327.2	319.4	327.2	319.4	327.2	315.7	319.4	319.4	323.4	327.2
65°	204.0	204.0	204.0	207.8	204.0	204.0	204.0	207.8	211.6	207.8	219.5
67.5°	138.7	142.5	150.2	146.3	150.2	142.5	138.7	142.5	142.5	154.0	150.2
70°	111.7	100.1	100.1	111.7	100.1	100.1	111.7	103.9	100.1	107.7	103.9
72.5°	65.5	57.6	65.5	65.5	65.5	57.6	65.5	57.6	61.7	61.7	69.3
75°	34.8	30.7	26.9	38.5	26.9	30.7	34.8	34.8	34.8	34.8	38.5
77.5°	23.1	19.2	26.9	26.9	26.9	19.2	23.1	19.2	23.1	19.2	23.1
80°	11.5	15.4	11.5	19.2	11.5	15.4	11.5	19.2	11.5	15.4	15.4
82.5°	3.8	7.7	7.7	7.7	7.7	7.7	3.8	3.8	7.7	7.7	3.8
85°	0.0	7.7	3.8	3.8	3.8	7.7	0.0	0.0	0.0	0.0	0.0
87.5°	3.8	0.0	0.0	3.8	0.0	0.0	3.8	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: P249079

CATALOG NUMBER: LD8B150D010 ER8B150930 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	7883.5	7883.5	7883.5	7883.5	7883.5	7883.5	7883.5	7883.5	7883.5	7883.5	7883.5
2.5°	7964.4	7952.8	7956.7	7933.7	7933.7	7925.8	7929.8	7910.4	7902.8	7895.1	7906.6
5°	8079.8	8060.7	8045.2	8010.7	7991.3	7968.3	7956.7	7925.8	7898.9	7875.8	7872.0
7.5°	8172.2	8129.9	8103.0	8056.7	8022.2	7995.2	7956.7	7914.3	7879.7	7848.8	7825.8
10°	8210.8	8168.4	8126.1	8068.3	8029.8	7979.7	7941.2	7887.4	7841.3	7798.9	7771.8
12.5°	8214.6	8160.7	8122.2	8056.7	8006.6	7952.8	7910.4	7848.8	7795.0	7752.6	7710.4
15°	8179.9	8129.9	8083.6	8014.4	7964.4	7914.3	7864.4	7798.9	7748.9	7698.8	7668.1
17.5°	8103.0	8056.7	8002.8	7937.5	7891.3	7845.0	7791.2	7737.3	7679.4	7625.6	7587.0
20°	8002.8	7952.8	7906.6	7841.3	7802.7	7752.6	7702.6	7644.9	7598.7	7544.8	7502.5
22.5°	7852.8	7806.5	7764.3	7725.7	7664.1	7625.6	7591.1	7525.6	7479.3	7429.3	7383.1
25°	7637.1	7591.1	7556.3	7510.1	7483.1	7440.9	7406.1	7348.5	7306.1	7259.9	7221.4
27.5°	7283.0	7256.1	7236.7	7209.8	7186.8	7167.6	7148.4	7102.1	7071.4	7029.0	6990.6
30°	6751.8	6748.0	6736.4	6724.9	6740.2	6740.2	6740.2	6732.6	6705.7	6674.8	6647.9
32.5°	6070.4	6078.2	6093.6	6105.2	6135.9	6170.7	6201.4	6216.7	6216.7	6197.6	6186.0
35°	5258.3	5269.8	5293.0	5323.7	5362.2	5404.6	5473.7	5489.3	5500.7	5500.7	5485.3
37.5°	4415.2	4411.4	4434.6	4461.5	4484.6	4515.4	4565.4	4576.9	4596.1	4588.6	4573.0
40°	3595.3	3576.1	3568.4	3576.1	3603.0	3591.5	3603.0	3595.3	3595.3	3568.4	3568.4
42.5°	2836.9	2813.9	2798.5	2787.0	2787.0	2759.9	2740.7	2721.6	2710.0	2690.7	2686.9
45°	2186.5	2159.4	2140.2	2132.5	2121.0	2086.4	2063.3	2040.1	2013.2	2005.6	2009.4
47.5°	1697.5	1670.6	1662.9	1643.7	1624.3	1605.2	1589.8	1562.9	1559.0	1543.6	1559.0
50°	1308.8	1301.1	1289.6	1281.9	1270.2	1254.8	1239.5	1224.1	1216.4	1216.4	1220.2
52.5°	1016.3	1020.1	1008.5	996.9	989.3	989.3	970.0	966.2	966.2	950.8	966.2
55°	777.6	773.7	777.6	769.9	769.9	758.4	758.4	746.7	746.7	735.2	743.0
57.5°	569.8	577.3	569.8	573.6	581.4	569.8	565.8	554.2	562.0	554.2	558.1
60°	442.7	442.7	442.7	438.9	438.9	434.9	434.9	431.1	431.1	423.4	431.1
62.5°	327.2	331.0	331.0	331.0	335.0	331.0	327.2	331.0	327.2	327.2	331.0
65°	215.7	219.5	219.5	215.7	223.3	215.7	219.5	223.3	227.0	223.3	227.0
67.5°	146.3	146.3	150.2	154.0	150.2	154.0	157.8	154.0	157.8	165.6	157.8
70°	107.7	111.7	111.7	107.7	103.9	107.7	103.9	115.5	115.5	115.5	123.1
72.5°	69.3	69.3	65.5	65.5	65.5	65.5	65.5	77.0	69.3	65.5	73.2
75°	38.5	42.3	42.3	30.7	34.8	42.3	30.7	34.8	46.3	38.5	46.3
77.5°	23.1	23.1	23.1	23.1	23.1	23.1	30.7	26.9	26.9	26.9	30.7
80°	19.2	15.4	15.4	11.5	15.4	15.4	15.4	23.1	19.2	19.2	23.1
82.5°	7.7	7.7	3.8	0.0	7.7	7.7	7.7	7.7	7.7	7.7	15.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	3.8	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P249079

CATALOG NUMBER: LD8B150D010 ER8B150930 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	7883.5	7883.5	7883.5	7883.5	7883.5	7883.5	7883.5	7883.5	7883.5	7883.5	7883.5
2.5°	7875.8	7875.8	7872.0	7864.4	7848.8	7848.8	7845.0	7833.4	7825.8	7821.9	7821.9
5°	7837.2	7821.9	7806.5	7764.3	7764.3	7756.4	7733.4	7718.0	7710.4	7691.1	7683.4
7.5°	7802.7	7756.4	7729.5	7702.6	7668.1	7652.5	7625.6	7614.1	7587.0	7567.9	7556.3
10°	7718.0	7687.3	7652.5	7610.2	7583.3	7552.5	7521.7	7498.7	7464.0	7444.7	7429.3
12.5°	7660.2	7614.1	7583.3	7537.0	7491.0	7464.0	7421.7	7394.8	7360.0	7321.6	7298.4
15°	7606.4	7556.3	7514.1	7464.0	7414.0	7383.1	7333.1	7302.4	7252.3	7213.7	7186.8
17.5°	7525.6	7483.1	7437.1	7375.4	7329.3	7290.8	7236.7	7198.4	7152.2	7102.1	7075.2
20°	7440.9	7390.8	7344.7	7283.0	7236.7	7190.7	7136.8	7094.5	7040.4	6994.4	6963.7
22.5°	7329.3	7271.5	7232.9	7171.4	7117.5	7067.6	7017.5	6967.5	6917.4	6878.8	6844.2
25°	7167.6	7105.9	7063.6	7013.5	6963.7	6925.1	6863.4	6832.7	6782.7	6748.0	6713.2
27.5°	6936.5	6890.5	6851.9	6801.9	6759.5	6728.8	6682.5	6651.8	6609.3	6578.6	6551.7
30°	6597.9	6559.4	6524.7	6474.7	6444.0	6416.9	6374.6	6347.6	6316.8	6282.2	6274.6
32.5°	6143.6	6112.8	6078.2	6043.5	6020.4	6005.0	5970.3	5955.0	5924.3	5904.9	5885.7
35°	5458.4	5431.5	5412.3	5396.9	5389.2	5392.9	5385.4	5400.8	5408.4	5404.6	5408.4
37.5°	4561.6	4546.1	4553.8	4565.4	4603.9	4653.9	4700.1	4769.3	4815.6	4861.9	4904.2
40°	3560.7	3572.3	3603.0	3672.3	3772.4	3884.0	3988.1	4118.9	4249.8	4342.2	4426.7
42.5°	2686.9	2721.6	2798.5	2898.6	3048.8	3214.2	3376.0	3568.4	3726.3	3880.1	3988.1
45°	2020.9	2067.0	2167.2	2305.8	2471.2	2663.7	2867.9	3083.3	3272.0	3429.8	3549.2
47.5°	1574.4	1616.8	1716.9	1863.1	2067.0	2267.3	2479.0	2702.3	2898.6	3052.6	3156.5
50°	1243.3	1297.2	1385.8	1539.8	1743.8	1955.5	2175.0	2394.2	2579.2	2710.0	2802.4
52.5°	977.7	1027.8	1112.5	1274.2	1482.1	1693.7	1897.6	2113.3	2275.0	2402.0	2463.6
55°	758.4	804.5	893.0	1027.8	1224.1	1432.0	1636.0	1820.8	1970.8	2063.3	2121.0
57.5°	577.3	612.1	673.7	808.4	985.5	1177.8	1351.3	1536.0	1651.5	1716.9	1755.3
60°	438.9	465.8	531.2	635.2	796.8	962.4	1108.7	1247.2	1339.6	1393.5	1432.0
62.5°	331.0	361.9	408.0	496.6	619.7	754.5	877.6	981.5	1058.6	1093.3	1120.2
65°	227.0	250.2	284.8	354.1	458.0	554.2	650.5	727.5	777.6	816.2	831.6
67.5°	169.4	184.7	204.0	257.9	331.0	408.0	473.4	527.3	581.4	596.7	623.6
70°	127.1	138.7	157.8	196.3	238.7	292.5	346.5	377.2	415.8	442.7	450.4
72.5°	80.8	84.6	103.9	127.1	161.6	196.3	231.0	257.9	281.0	296.5	304.0
75°	46.3	69.3	69.3	92.4	115.5	130.8	154.0	173.2	184.7	196.3	196.3
77.5°	30.7	42.3	46.3	57.6	69.3	88.6	107.7	119.3	130.8	134.6	134.6
80°	26.9	30.7	30.7	42.3	50.1	65.5	77.0	80.8	88.6	92.4	100.1
82.5°	11.5	15.4	19.2	30.7	34.8	34.8	46.3	50.1	57.6	61.7	61.7
85°	3.8	7.7	7.7	11.5	19.2	23.1	26.9	30.7	34.8	34.8	38.5
87.5°	3.8	3.8	0.0	3.8	7.7	7.7	15.4	15.4	15.4	23.1	23.1
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: P249079

CATALOG NUMBER: LD8B150D010 ER8B150930 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	7883.5	7883.5	7883.5	7883.5	7883.5	7883.5	7883.5
2.5°	7814.3	7818.1	7802.7	7798.9	7791.2	7795.0	7802.7
5°	7671.9	7675.7	7660.2	7644.9	7644.9	7641.0	7644.9
7.5°	7537.0	7541.0	7517.9	7510.1	7494.7	7498.7	7498.7
10°	7402.3	7402.3	7367.8	7363.8	7352.3	7348.5	7348.5
12.5°	7271.5	7259.9	7232.9	7217.6	7225.4	7202.2	7202.2
15°	7156.0	7136.8	7102.1	7090.5	7071.4	7063.6	7063.6
17.5°	7036.6	7021.3	6990.6	6967.5	6944.3	6940.4	6944.3
20°	6921.2	6905.8	6867.2	6851.9	6832.7	6832.7	6825.0
22.5°	6805.6	6790.2	6755.7	6744.2	6717.3	6717.3	6721.1
25°	6686.3	6674.8	6636.3	6628.7	6624.9	6609.3	6617.2
27.5°	6524.7	6516.9	6486.2	6474.7	6459.3	6455.5	6463.1
30°	6228.3	6216.7	6193.7	6182.2	6155.2	6159.0	6166.6
32.5°	5858.8	5843.4	5812.5	5801.0	5778.0	5770.2	5774.0
35°	5396.9	5385.4	5358.4	5358.4	5335.3	5327.6	5335.3
37.5°	4927.2	4938.7	4927.2	4938.7	4927.2	4923.3	4927.2
40°	4484.6	4526.9	4534.6	4576.9	4561.6	4584.6	4580.7
42.5°	4061.0	4130.3	4157.5	4192.0	4184.4	4199.7	4211.3
45°	3633.7	3691.6	3718.5	3741.7	3745.5	3753.2	3757.0
47.5°	3229.6	3275.8	3279.6	3306.6	3302.8	3302.8	3314.3
50°	2852.5	2883.2	2890.8	2910.1	2894.8	2887.0	2890.8
52.5°	2502.2	2532.9	2525.2	2532.9	2513.7	2506.0	2509.8
55°	2144.0	2159.4	2159.4	2159.4	2136.5	2136.5	2136.5
57.5°	1778.4	1782.4	1774.5	1778.4	1774.5	1751.5	1747.6
60°	1443.6	1443.6	1439.6	1443.6	1432.0	1420.4	1420.4
62.5°	1127.8	1135.6	1150.9	1135.6	1127.8	1135.6	1124.0
65°	843.1	858.5	854.5	862.3	858.5	858.5	850.7
67.5°	635.2	639.0	642.8	646.8	646.8	646.8	646.8
70°	465.8	477.4	473.4	473.4	473.4	473.4	496.6
72.5°	311.9	327.2	323.4	331.0	331.0	338.8	331.0
75°	211.6	227.0	219.5	231.0	227.0	219.5	238.7
77.5°	142.5	150.2	154.0	157.8	154.0	150.2	154.0
80°	100.1	107.7	103.9	107.7	107.7	107.7	111.7
82.5°	61.7	73.2	69.3	73.2	69.3	73.2	73.2
85°	42.3	46.3	38.5	46.3	42.3	42.3	50.1
87.5°	26.9	23.1	23.1	26.9	23.1	26.9	23.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)