

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: P248620

Luminaire Tested: **LD8B150D010 ER8B150940 8LBSW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248620
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 ER8B150940 8LBSW0H
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14476.0 lumens
Efficiency: N/A
Efficacy: 91.3 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

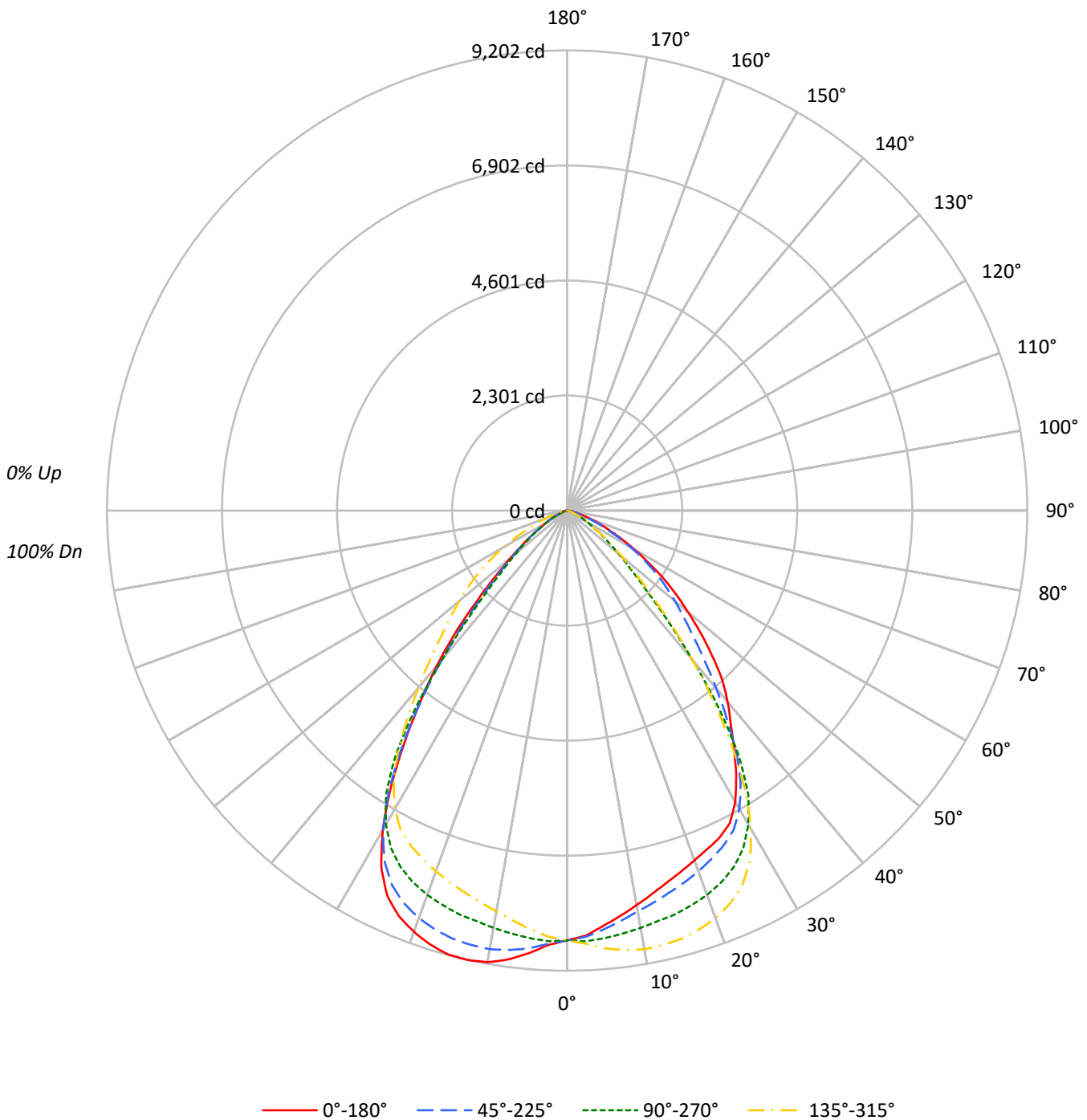
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	265004	265004	265004	265004
5°	257965	265626	275111	265626
10°	250831	265282	287094	265282
15°	245819	266854	293376	266854
20°	244146	268380	294130	268380
25°	245430	267841	289406	267841
30°	239359	258038	262674	258038
35°	218942	225097	213571	225097
40°	201012	156584	163516	156584
45°	178606	95526	110527	95526
50°	151177	63809	70861	63809
55°	125210	43541	46020	43541
60°	95500	28986	29239	28986
65°	67660	18059	16534	18059
70°	48803	12099	10981	12099
75°	30989	6005	5004	6005
80°	21629	4475	3711	4475
85°	19318	0	1451	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	818.0	5.7
10°-20°	2368.7	16.4
20°-30°	3586.7	24.8
30°-40°	3594.8	24.8
40°-50°	2257.4	15.6
50°-60°	1202.9	8.3
60°-70°	494.7	3.4
70°-80°	130.7	0.9
80°-90°	22.1	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°	6773.4	46.8
0°-40°	10368.2	71.6
0°-60°	13828.5	95.5
0°-90°	14476.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14476.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	8594	8594	8594	8594	8594	
5°	8334	8581	8888	8581	8334	786
15°	7700	8359	9190	8359	7700	2178
25°	7213	7872	8506	7872	7213	3308
35°	5816	5980	5673	5980	5816	3644
45°	4096	2190	2534	2190	4096	3150
55°	2329	810	856	810	2329	2076
65°	927	248	227	248	927	962
75°	260	50	42	50	260	295
85°	55	0	4	0	55	60
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°	8593.9	8593.9	8593.9	8593.9	8593.9	8593.9	8593.9	8593.9	8593.9	8593.9	8593.9
2.5°	8505.9	8497.4	8493.2	8501.7	8505.9	8522.6	8518.5	8526.8	8526.8	8531.1	8539.4
5°	8333.8	8329.5	8333.8	8333.8	8350.6	8367.3	8363.2	8375.8	8384.1	8405.2	8413.4
7.5°	8174.4	8174.4	8170.1	8186.8	8195.3	8220.5	8216.2	8237.3	8249.9	8270.8	8300.1
10°	8010.7	8010.7	8014.8	8027.4	8031.7	8069.4	8069.4	8098.7	8115.5	8136.6	8174.4
12.5°	7851.2	7851.2	7876.5	7868.0	7884.7	7914.1	7926.7	7956.1	7981.3	8023.3	8061.1
15°	7700.1	7700.1	7708.6	7729.5	7742.1	7779.9	7800.8	7834.5	7863.8	7905.8	7960.4
17.5°	7570.0	7565.9	7570.0	7595.3	7620.5	7654.0	7670.7	7712.7	7742.1	7796.7	7847.1
20°	7440.0	7448.5	7448.5	7469.4	7486.1	7528.1	7544.8	7591.1	7624.6	7674.9	7733.8
22.5°	7326.7	7322.5	7322.5	7351.9	7364.5	7402.2	7418.9	7460.9	7498.7	7540.7	7595.3
25°	7213.4	7204.9	7221.8	7226.0	7234.3	7276.2	7288.9	7318.2	7356.0	7393.9	7448.5
27.5°	7045.5	7037.2	7041.3	7058.1	7070.7	7104.2	7112.7	7142.0	7171.4	7204.9	7251.2
30°	6722.3	6714.0	6709.9	6739.3	6751.9	6776.9	6789.5	6840.0	6848.2	6886.1	6919.6
32.5°	6294.3	6290.2	6298.6	6323.7	6336.3	6370.0	6386.7	6416.1	6437.0	6458.1	6491.6
35°	5816.1	5807.6	5816.1	5841.3	5841.3	5870.6	5883.2	5895.7	5891.5	5895.7	5887.4
37.5°	5371.3	5367.0	5371.3	5383.7	5371.3	5383.7	5371.3	5346.1	5300.0	5249.5	5199.1
40°	4993.6	4997.7	4972.7	4989.4	4943.1	4934.8	4888.7	4825.7	4733.4	4632.7	4490.1
42.5°	4590.8	4578.2	4561.4	4569.7	4532.0	4502.5	4427.0	4347.4	4229.8	4062.1	3889.9
45°	4095.6	4091.4	4083.0	4078.8	4053.6	4024.2	3961.2	3869.0	3738.9	3566.9	3361.2
47.5°	3613.0	3600.4	3600.4	3604.5	3575.2	3571.0	3520.6	3441.0	3327.7	3159.8	2945.8
50°	3151.3	3147.2	3155.6	3172.4	3151.3	3143.0	3109.5	3054.9	2954.2	2811.6	2610.0
52.5°	2735.9	2731.8	2740.2	2761.1	2752.7	2761.1	2727.6	2685.7	2618.5	2479.9	2303.8
55°	2329.0	2329.0	2329.0	2354.0	2354.0	2354.0	2337.3	2312.2	2249.2	2148.5	1984.9
57.5°	1905.1	1909.3	1934.5	1938.6	1934.5	1942.9	1938.6	1913.4	1871.6	1800.3	1674.4
60°	1548.5	1548.5	1561.1	1573.7	1569.3	1573.7	1573.7	1561.1	1519.1	1460.4	1359.7
62.5°	1225.3	1237.9	1229.4	1237.9	1254.7	1237.9	1229.4	1221.1	1191.8	1154.0	1070.0
65°	927.3	935.8	935.8	940.0	931.5	935.8	919.1	906.4	889.7	847.7	793.1
67.5°	705.1	705.1	705.1	705.1	700.7	696.6	692.4	679.8	650.5	633.7	574.8
70°	541.3	516.1	516.1	516.1	516.1	520.4	507.8	491.0	482.6	453.2	411.3
72.5°	360.8	369.3	360.8	360.8	352.5	356.7	339.9	331.5	323.2	306.4	281.2
75°	260.1	239.2	247.5	251.8	239.2	247.5	230.8	214.0	214.0	201.4	188.8
77.5°	167.9	163.7	167.9	172.0	167.9	163.7	155.3	146.8	146.8	142.7	130.1
80°	121.8	117.5	117.5	117.5	113.3	117.5	109.2	109.2	100.7	96.6	88.1
82.5°	79.8	79.8	75.5	79.8	75.5	79.8	67.2	67.2	67.2	62.9	54.6
85°	54.6	46.1	46.1	50.4	42.0	50.4	46.1	42.0	37.8	37.8	33.5
87.5°	25.2	29.4	25.2	29.4	25.2	25.2	29.4	25.2	25.2	16.8	16.8
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°	8593.9	8593.9	8593.9	8593.9	8593.9	8593.9	8593.9	8593.9	8593.9	8593.9	8593.9
2.5°	8552.0	8556.1	8556.1	8573.0	8581.3	8585.5	8585.5	8619.2	8606.6	8615.0	8623.3
5°	8430.4	8455.4	8463.9	8463.9	8510.0	8526.8	8543.5	8581.3	8585.5	8610.7	8640.1
7.5°	8312.8	8342.1	8359.0	8396.7	8426.1	8455.4	8505.9	8531.1	8556.1	8589.8	8627.5
10°	8199.4	8233.1	8266.6	8296.0	8342.1	8379.9	8413.4	8472.2	8501.7	8547.8	8598.1
12.5°	8090.5	8136.6	8165.9	8216.2	8266.6	8300.1	8350.6	8405.2	8451.3	8497.4	8556.1
15°	7993.9	8048.5	8082.0	8136.6	8191.2	8237.3	8291.9	8359.0	8392.5	8447.1	8501.7
17.5°	7888.9	7947.8	7989.8	8040.0	8107.2	8157.5	8203.8	8270.8	8312.8	8371.5	8434.5
20°	7779.9	7838.6	7888.9	7939.3	8006.5	8056.8	8111.4	8178.5	8224.7	8283.4	8333.8
22.5°	7649.8	7704.4	7758.8	7817.6	7884.7	7926.7	7989.8	8048.5	8098.7	8153.3	8203.8
25°	7482.0	7549.1	7591.1	7645.5	7700.1	7746.2	7813.4	7872.1	7914.1	7964.5	8010.7
27.5°	7284.7	7335.1	7368.7	7414.8	7469.4	7511.3	7561.6	7620.5	7662.5	7708.6	7742.1
30°	6948.9	6995.2	7024.6	7058.1	7112.7	7150.5	7192.5	7246.9	7276.2	7309.9	7339.3
32.5°	6508.3	6546.2	6562.9	6588.1	6626.0	6663.6	6697.3	6743.4	6756.0	6776.9	6776.9
35°	5870.6	5878.9	5874.8	5883.2	5900.0	5920.9	5950.3	5979.6	5996.4	5996.4	5983.9
37.5°	5123.6	5073.4	5018.8	4976.8	4964.2	4955.7	4972.7	4985.1	5002.0	5010.3	4989.4
40°	4347.4	4234.1	4112.3	4003.2	3927.7	3894.2	3881.6	3889.9	3889.9	3919.2	3919.2
42.5°	3680.2	3503.8	3323.5	3159.8	3050.6	2966.8	2929.0	2929.0	2933.2	2954.2	2966.8
45°	3126.3	2903.8	2693.9	2513.6	2362.5	2253.3	2203.1	2190.5	2186.3	2194.6	2224.0
47.5°	2702.4	2471.6	2253.3	2031.0	1871.6	1762.5	1716.3	1699.4	1682.7	1699.4	1703.7
50°	2371.0	2131.7	1901.0	1678.5	1510.6	1414.1	1355.3	1330.1	1326.0	1326.0	1334.4
52.5°	2068.7	1846.4	1615.6	1389.0	1212.7	1120.4	1065.9	1053.3	1036.5	1053.3	1053.3
55°	1783.4	1561.1	1334.4	1120.4	973.5	877.1	826.6	809.9	801.4	814.0	814.0
57.5°	1473.0	1284.0	1074.3	881.2	734.4	667.2	629.4	608.5	604.2	612.6	604.2
60°	1208.5	1049.1	868.6	692.4	579.1	507.8	478.4	470.0	461.5	470.0	470.0
62.5°	956.7	822.5	675.5	541.3	444.8	394.5	360.8	360.8	356.7	356.7	360.8
65°	709.2	604.2	499.3	386.0	310.6	272.7	247.5	247.5	243.4	247.5	243.4
67.5°	516.1	444.8	360.8	281.2	222.5	201.4	184.6	172.0	180.5	172.0	167.9
70°	377.7	318.8	260.1	214.0	172.0	151.1	138.5	134.2	125.9	125.9	125.9
72.5°	251.8	214.0	176.2	138.5	113.3	92.2	88.1	79.8	71.3	75.5	83.9
75°	167.9	142.7	125.9	100.7	75.5	75.5	50.4	50.4	42.0	50.4	37.8
77.5°	117.5	96.6	75.5	62.9	50.4	46.1	33.5	33.5	29.4	29.4	29.4
80°	83.9	71.3	54.6	46.1	33.5	33.5	29.4	25.2	20.9	20.9	25.2
82.5°	50.4	37.8	37.8	33.5	20.9	16.8	12.6	16.8	8.5	8.5	8.5
85°	29.4	25.2	20.9	12.6	8.5	8.5	4.1	0.0	4.1	4.1	0.0
87.5°	16.8	8.5	8.5	4.1	0.0	4.1	4.1	0.0	0.0	0.0	8.5
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°	8593.9	8593.9	8593.9	8593.9	8593.9	8593.9	8593.9	8593.9	8593.9	8593.9	8593.9
2.5°	8644.4	8640.1	8648.5	8648.5	8673.7	8669.4	8682.0	8682.0	8673.7	8677.9	8694.6
5°	8673.7	8686.3	8711.4	8732.5	8770.1	8787.0	8807.9	8829.0	8833.2	8845.8	8858.4
7.5°	8673.7	8715.7	8745.1	8782.7	8833.2	8862.5	8908.6	8946.5	8963.2	8984.1	9009.3
10°	8656.8	8698.8	8753.4	8795.3	8858.4	8904.5	8950.6	9009.3	9034.6	9068.1	9101.7
12.5°	8623.3	8669.4	8728.1	8782.7	8854.1	8896.0	8954.8	9009.3	9047.2	9093.3	9131.1
15°	8573.0	8627.5	8682.0	8736.6	8812.1	8862.5	8917.1	8980.0	9017.8	9068.1	9101.7
17.5°	8493.2	8552.0	8602.4	8652.7	8724.0	8782.7	8833.2	8891.9	8929.7	8971.7	9017.8
20°	8396.7	8451.3	8505.9	8547.8	8619.2	8669.4	8724.0	8778.6	8807.9	8816.4	8887.7
22.5°	8275.1	8312.8	8354.7	8421.9	8463.9	8510.0	8560.4	8610.7	8640.1	8686.3	8711.4
25°	8073.5	8111.4	8157.5	8186.8	8237.3	8275.1	8325.4	8379.9	8396.7	8430.4	8455.4
27.5°	7792.5	7813.4	7834.5	7859.5	7888.9	7910.0	7939.3	7964.5	7981.3	7998.1	8014.8
30°	7347.6	7347.6	7347.6	7330.8	7343.4	7356.0	7360.2	7356.0	7356.0	7351.9	7351.9
32.5°	6760.2	6726.6	6688.8	6655.3	6642.7	6626.0	6617.5	6604.9	6584.0	6571.4	6575.5
35°	5967.0	5891.5	5845.4	5803.5	5769.9	5744.7	5732.1	5719.5	5715.4	5698.6	5681.7
37.5°	4976.8	4922.2	4888.7	4863.5	4834.1	4808.9	4813.1	4817.4	4829.8	4821.5	4825.7
40°	3927.7	3915.1	3927.7	3898.3	3889.9	3898.3	3919.2	3948.8	3965.5	3982.3	4011.6
42.5°	2987.7	3008.6	3038.2	3038.2	3050.6	3067.5	3092.6	3138.9	3163.9	3193.3	3227.0
45°	2249.2	2274.4	2312.2	2324.7	2333.1	2354.0	2383.6	2421.2	2438.0	2463.2	2492.5
47.5°	1733.1	1749.8	1770.7	1791.8	1812.7	1821.2	1850.5	1850.5	1871.6	1888.4	1896.7
50°	1351.2	1368.0	1384.7	1397.3	1405.8	1418.4	1426.7	1439.3	1443.4	1451.9	1456.0
52.5°	1057.4	1078.5	1078.5	1086.8	1099.4	1112.0	1107.8	1112.0	1116.1	1116.1	1128.7
55°	826.6	826.6	839.3	839.3	847.7	843.4	847.7	847.7	847.7	847.7	851.9
57.5°	616.8	621.1	633.7	625.3	621.1	629.4	621.1	629.4	625.3	633.7	621.1
60°	474.1	474.1	478.4	478.4	482.6	482.6	482.6	478.4	478.4	474.1	474.1
62.5°	356.7	360.8	365.1	360.8	360.8	360.8	356.7	356.7	352.5	348.2	348.2
65°	239.2	235.1	243.4	235.1	239.2	239.2	235.1	239.2	226.6	230.8	226.6
67.5°	172.0	167.9	163.7	167.9	163.7	159.4	159.4	163.7	167.9	155.3	155.3
70°	113.3	117.5	113.3	117.5	121.8	121.8	117.5	113.3	117.5	109.2	113.3
72.5°	71.3	71.3	71.3	71.3	71.3	75.5	75.5	75.5	67.2	67.2	62.9
75°	33.5	46.1	37.8	33.5	46.1	46.1	42.0	42.0	37.8	37.8	37.8
77.5°	33.5	25.2	25.2	25.2	25.2	25.2	25.2	25.2	20.9	25.2	20.9
80°	16.8	16.8	16.8	12.6	16.8	16.8	20.9	16.8	16.8	12.6	20.9
82.5°	8.5	8.5	8.5	0.0	4.1	8.5	8.5	4.1	8.5	8.5	4.1
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: P248620

CATALOG NUMBER: LD8B150D010 ER8B150940 8LBSW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	8593.9	8593.9	8593.9	8593.9	8593.9	8593.9	8593.9	8593.9	8593.9	8593.9	8593.9
2.5°	8690.5	8686.3	8690.5	8694.6	8690.5	8686.3	8690.5	8694.6	8677.9	8673.7	8682.0
5°	8875.1	8875.1	8883.4	8887.7	8883.4	8875.1	8875.1	8858.4	8845.8	8833.2	8829.0
7.5°	9034.6	9043.0	9051.3	9055.5	9051.3	9043.0	9034.6	9009.3	8984.1	8963.2	8946.5
10°	9131.1	9143.7	9160.5	9168.8	9160.5	9143.7	9131.1	9101.7	9068.1	9034.6	9009.3
12.5°	9173.1	9185.7	9206.6	9202.4	9206.6	9185.7	9173.1	9131.1	9093.3	9047.2	9009.3
15°	9143.7	9160.5	9181.4	9189.8	9181.4	9160.5	9143.7	9101.7	9068.1	9017.8	8980.0
17.5°	9051.3	9076.5	9089.1	9101.7	9089.1	9076.5	9051.3	9017.8	8971.7	8929.7	8891.9
20°	8925.4	8942.3	8959.1	8963.2	8959.1	8942.3	8925.4	8887.7	8816.4	8807.9	8778.6
22.5°	8745.1	8757.7	8795.3	8782.7	8795.3	8757.7	8745.1	8711.4	8686.3	8640.1	8610.7
25°	8484.8	8497.4	8501.7	8505.9	8501.7	8497.4	8484.8	8455.4	8430.4	8396.7	8379.9
27.5°	8035.9	8035.9	8044.2	8048.5	8044.2	8035.9	8035.9	8014.8	7998.1	7981.3	7964.5
30°	7356.0	7356.0	7356.0	7377.1	7356.0	7356.0	7356.0	7351.9	7351.9	7356.0	7356.0
32.5°	6571.4	6562.9	6554.6	6562.9	6554.6	6562.9	6571.4	6575.5	6571.4	6584.0	6604.9
35°	5681.7	5677.5	5690.1	5673.4	5690.1	5677.5	5681.7	5681.7	5698.6	5715.4	5719.5
37.5°	4829.8	4821.5	4838.3	4821.5	4838.3	4821.5	4829.8	4825.7	4821.5	4829.8	4817.4
40°	4020.1	4028.4	4028.4	4062.1	4028.4	4028.4	4020.1	4011.6	3982.3	3965.5	3948.8
42.5°	3243.7	3268.9	3260.5	3285.7	3260.5	3268.9	3243.7	3227.0	3193.3	3163.9	3138.9
45°	2509.3	2526.2	2526.2	2534.5	2526.2	2526.2	2509.3	2492.5	2463.2	2438.0	2421.2
47.5°	1926.0	1926.0	1926.0	1930.3	1926.0	1926.0	1926.0	1896.7	1888.4	1871.6	1850.5
50°	1464.5	1468.7	1473.0	1477.1	1473.0	1468.7	1464.5	1456.0	1451.9	1443.4	1439.3
52.5°	1124.6	1128.7	1120.4	1128.7	1120.4	1128.7	1124.6	1128.7	1116.1	1116.1	1112.0
55°	851.9	847.7	851.9	856.0	851.9	847.7	851.9	851.9	847.7	847.7	847.7
57.5°	625.3	616.8	616.8	616.8	616.8	616.8	625.3	621.1	633.7	625.3	629.4
60°	465.8	470.0	470.0	474.1	470.0	470.0	465.8	474.1	474.1	478.4	478.4
62.5°	344.1	356.7	348.2	356.7	348.2	356.7	344.1	348.2	348.2	352.5	356.7
65°	222.5	222.5	222.5	226.6	222.5	222.5	222.5	226.6	230.8	226.6	239.2
67.5°	151.1	155.3	163.7	159.4	163.7	155.3	151.1	155.3	155.3	167.9	163.7
70°	121.8	109.2	109.2	121.8	109.2	109.2	121.8	113.3	109.2	117.5	113.3
72.5°	71.3	62.9	71.3	71.3	71.3	62.9	71.3	62.9	67.2	67.2	75.5
75°	37.8	33.5	29.4	42.0	29.4	33.5	37.8	37.8	37.8	37.8	42.0
77.5°	25.2	20.9	29.4	29.4	29.4	20.9	25.2	20.9	25.2	20.9	25.2
80°	12.6	16.8	12.6	20.9	12.6	16.8	12.6	20.9	12.6	16.8	16.8
82.5°	4.1	8.5	8.5	8.5	8.5	8.5	4.1	4.1	8.5	8.5	4.1
85°	0.0	8.5	4.1	4.1	4.1	8.5	0.0	0.0	0.0	0.0	0.0
87.5°	4.1	0.0	0.0	4.1	0.0	0.0	4.1	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: P248620

CATALOG NUMBER: LD8B150D010 ER8B150940 8LBSW0H

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	8593.9	8593.9	8593.9	8593.9	8593.9	8593.9	8593.9	8593.9	8593.9	8593.9	8593.9
2.5°	8682.0	8669.4	8673.7	8648.5	8648.5	8640.1	8644.4	8623.3	8615.0	8606.6	8619.2
5°	8807.9	8787.0	8770.1	8732.5	8711.4	8686.3	8673.7	8640.1	8610.7	8585.5	8581.3
7.5°	8908.6	8862.5	8833.2	8782.7	8745.1	8715.7	8673.7	8627.5	8589.8	8556.1	8531.1
10°	8950.6	8904.5	8858.4	8795.3	8753.4	8698.8	8656.8	8598.1	8547.8	8501.7	8472.2
12.5°	8954.8	8896.0	8854.1	8782.7	8728.1	8669.4	8623.3	8556.1	8497.4	8451.3	8405.2
15°	8917.1	8862.5	8812.1	8736.6	8682.0	8627.5	8573.0	8501.7	8447.1	8392.5	8359.0
17.5°	8833.2	8782.7	8724.0	8652.7	8602.4	8552.0	8493.2	8434.5	8371.5	8312.8	8270.8
20°	8724.0	8669.4	8619.2	8547.8	8505.9	8451.3	8396.7	8333.8	8283.4	8224.7	8178.5
22.5°	8560.4	8510.0	8463.9	8421.9	8354.7	8312.8	8275.1	8203.8	8153.3	8098.7	8048.5
25°	8325.4	8275.1	8237.3	8186.8	8157.5	8111.4	8073.5	8010.7	7964.5	7914.1	7872.1
27.5°	7939.3	7910.0	7888.9	7859.5	7834.5	7813.4	7792.5	7742.1	7708.6	7662.5	7620.5
30°	7360.2	7356.0	7343.4	7330.8	7347.6	7347.6	7347.6	7339.3	7309.9	7276.2	7246.9
32.5°	6617.5	6626.0	6642.7	6655.3	6688.8	6726.6	6760.2	6776.9	6776.9	6756.0	6743.4
35°	5732.1	5744.7	5769.9	5803.5	5845.4	5891.5	5967.0	5983.9	5996.4	5996.4	5979.6
37.5°	4813.1	4808.9	4834.1	4863.5	4888.7	4922.2	4976.8	4989.4	5010.3	5002.0	4985.1
40°	3919.2	3898.3	3889.9	3898.3	3927.7	3915.1	3927.7	3919.2	3919.2	3889.9	3889.9
42.5°	3092.6	3067.5	3050.6	3038.2	3038.2	3008.6	2987.7	2966.8	2954.2	2933.2	2929.0
45°	2383.6	2354.0	2333.1	2324.7	2312.2	2274.4	2249.2	2224.0	2194.6	2186.3	2190.5
47.5°	1850.5	1821.2	1812.7	1791.8	1770.7	1749.8	1733.1	1703.7	1699.4	1682.7	1699.4
50°	1426.7	1418.4	1405.8	1397.3	1384.7	1368.0	1351.2	1334.4	1326.0	1326.0	1330.1
52.5°	1107.8	1112.0	1099.4	1086.8	1078.5	1078.5	1057.4	1053.3	1053.3	1036.5	1053.3
55°	847.7	843.4	847.7	839.3	839.3	826.6	826.6	814.0	814.0	801.4	809.9
57.5°	621.1	629.4	621.1	625.3	633.7	621.1	616.8	604.2	612.6	604.2	608.5
60°	482.6	482.6	482.6	478.4	478.4	474.1	474.1	470.0	470.0	461.5	470.0
62.5°	356.7	360.8	360.8	360.8	365.1	360.8	356.7	360.8	356.7	356.7	360.8
65°	235.1	239.2	239.2	235.1	243.4	235.1	239.2	243.4	247.5	243.4	247.5
67.5°	159.4	159.4	163.7	167.9	163.7	167.9	172.0	167.9	172.0	180.5	172.0
70°	117.5	121.8	121.8	117.5	113.3	117.5	113.3	125.9	125.9	125.9	134.2
72.5°	75.5	75.5	71.3	71.3	71.3	71.3	71.3	83.9	75.5	71.3	79.8
75°	42.0	46.1	46.1	33.5	37.8	46.1	33.5	37.8	50.4	42.0	50.4
77.5°	25.2	25.2	25.2	25.2	25.2	25.2	33.5	29.4	29.4	29.4	33.5
80°	20.9	16.8	16.8	12.6	16.8	16.8	16.8	25.2	20.9	20.9	25.2
82.5°	8.5	8.5	4.1	0.0	8.5	8.5	8.5	8.5	8.5	8.5	16.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	4.1	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.5	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: P248620

CATALOG NUMBER: LD8B150D010 ER8B150940 8LBSW0H

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	8593.9	8593.9	8593.9	8593.9	8593.9	8593.9	8593.9	8593.9	8593.9	8593.9	8593.9
2.5°	8585.5	8585.5	8581.3	8573.0	8556.1	8556.1	8552.0	8539.4	8531.1	8526.8	8526.8
5°	8543.5	8526.8	8510.0	8463.9	8463.9	8455.4	8430.4	8413.4	8405.2	8384.1	8375.8
7.5°	8505.9	8455.4	8426.1	8396.7	8359.0	8342.1	8312.8	8300.1	8270.8	8249.9	8237.3
10°	8413.4	8379.9	8342.1	8296.0	8266.6	8233.1	8199.4	8174.4	8136.6	8115.5	8098.7
12.5°	8350.6	8300.1	8266.6	8216.2	8165.9	8136.6	8090.5	8061.1	8023.3	7981.3	7956.1
15°	8291.9	8237.3	8191.2	8136.6	8082.0	8048.5	7993.9	7960.4	7905.8	7863.8	7834.5
17.5°	8203.8	8157.5	8107.2	8040.0	7989.8	7947.8	7888.9	7847.1	7796.7	7742.1	7712.7
20°	8111.4	8056.8	8006.5	7939.3	7888.9	7838.6	7779.9	7733.8	7674.9	7624.6	7591.1
22.5°	7989.8	7926.7	7884.7	7817.6	7758.8	7704.4	7649.8	7595.3	7540.7	7498.7	7460.9
25°	7813.4	7746.2	7700.1	7645.5	7591.1	7549.1	7482.0	7448.5	7393.9	7356.0	7318.2
27.5°	7561.6	7511.3	7469.4	7414.8	7368.7	7335.1	7284.7	7251.2	7204.9	7171.4	7142.0
30°	7192.5	7150.5	7112.7	7058.1	7024.6	6995.2	6948.9	6919.6	6886.1	6848.2	6840.0
32.5°	6697.3	6663.6	6626.0	6588.1	6562.9	6546.2	6508.3	6491.6	6458.1	6437.0	6416.1
35°	5950.3	5920.9	5900.0	5883.2	5874.8	5878.9	5870.6	5887.4	5895.7	5891.5	5895.7
37.5°	4972.7	4955.7	4964.2	4976.8	5018.8	5073.4	5123.6	5199.1	5249.5	5300.0	5346.1
40°	3881.6	3894.2	3927.7	4003.2	4112.3	4234.1	4347.4	4490.1	4632.7	4733.4	4825.7
42.5°	2929.0	2966.8	3050.6	3159.8	3323.5	3503.8	3680.2	3889.9	4062.1	4229.8	4347.4
45°	2203.1	2253.3	2362.5	2513.6	2693.9	2903.8	3126.3	3361.2	3566.9	3738.9	3869.0
47.5°	1716.3	1762.5	1871.6	2031.0	2253.3	2471.6	2702.4	2945.8	3159.8	3327.7	3441.0
50°	1355.3	1414.1	1510.6	1678.5	1901.0	2131.7	2371.0	2610.0	2811.6	2954.2	3054.9
52.5°	1065.9	1120.4	1212.7	1389.0	1615.6	1846.4	2068.7	2303.8	2479.9	2618.5	2685.7
55°	826.6	877.1	973.5	1120.4	1334.4	1561.1	1783.4	1984.9	2148.5	2249.2	2312.2
57.5°	629.4	667.2	734.4	881.2	1074.3	1284.0	1473.0	1674.4	1800.3	1871.6	1913.4
60°	478.4	507.8	579.1	692.4	868.6	1049.1	1208.5	1359.7	1460.4	1519.1	1561.1
62.5°	360.8	394.5	444.8	541.3	675.5	822.5	956.7	1070.0	1154.0	1191.8	1221.1
65°	247.5	272.7	310.6	386.0	499.3	604.2	709.2	793.1	847.7	889.7	906.4
67.5°	184.6	201.4	222.5	281.2	360.8	444.8	516.1	574.8	633.7	650.5	679.8
70°	138.5	151.1	172.0	214.0	260.1	318.8	377.7	411.3	453.2	482.6	491.0
72.5°	88.1	92.2	113.3	138.5	176.2	214.0	251.8	281.2	306.4	323.2	331.5
75°	50.4	75.5	75.5	100.7	125.9	142.7	167.9	188.8	201.4	214.0	214.0
77.5°	33.5	46.1	50.4	62.9	75.5	96.6	117.5	130.1	142.7	146.8	146.8
80°	29.4	33.5	33.5	46.1	54.6	71.3	83.9	88.1	96.6	100.7	109.2
82.5°	12.6	16.8	20.9	33.5	37.8	37.8	50.4	54.6	62.9	67.2	67.2
85°	4.1	8.5	8.5	12.6	20.9	25.2	29.4	33.5	37.8	37.8	42.0
87.5°	4.1	4.1	0.0	4.1	8.5	8.5	16.8	16.8	16.8	25.2	25.2
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: P248620

CATALOG NUMBER: LD8B150D010 ER8B150940 8LBSW0H

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	8593.9	8593.9	8593.9	8593.9	8593.9	8593.9	8593.9
2.5°	8518.5	8522.6	8505.9	8501.7	8493.2	8497.4	8505.9
5°	8363.2	8367.3	8350.6	8333.8	8333.8	8329.5	8333.8
7.5°	8216.2	8220.5	8195.3	8186.8	8170.1	8174.4	8174.4
10°	8069.4	8069.4	8031.7	8027.4	8014.8	8010.7	8010.7
12.5°	7926.7	7914.1	7884.7	7868.0	7876.5	7851.2	7851.2
15°	7800.8	7779.9	7742.1	7729.5	7708.6	7700.1	7700.1
17.5°	7670.7	7654.0	7620.5	7595.3	7570.0	7565.9	7570.0
20°	7544.8	7528.1	7486.1	7469.4	7448.5	7448.5	7440.0
22.5°	7418.9	7402.2	7364.5	7351.9	7322.5	7322.5	7326.7
25°	7288.9	7276.2	7234.3	7226.0	7221.8	7204.9	7213.4
27.5°	7112.7	7104.2	7070.7	7058.1	7041.3	7037.2	7045.5
30°	6789.5	6776.9	6751.9	6739.3	6709.9	6714.0	6722.3
32.5°	6386.7	6370.0	6336.3	6323.7	6298.6	6290.2	6294.3
35°	5883.2	5870.6	5841.3	5841.3	5816.1	5807.6	5816.1
37.5°	5371.3	5383.7	5371.3	5383.7	5371.3	5367.0	5371.3
40°	4888.7	4934.8	4943.1	4989.4	4972.7	4997.7	4993.6
42.5°	4427.0	4502.5	4532.0	4569.7	4561.4	4578.2	4590.8
45°	3961.2	4024.2	4053.6	4078.8	4083.0	4091.4	4095.6
47.5°	3520.6	3571.0	3575.2	3604.5	3600.4	3600.4	3613.0
50°	3109.5	3143.0	3151.3	3172.4	3155.6	3147.2	3151.3
52.5°	2727.6	2761.1	2752.7	2761.1	2740.2	2731.8	2735.9
55°	2337.3	2354.0	2354.0	2354.0	2329.0	2329.0	2329.0
57.5°	1938.6	1942.9	1934.5	1938.6	1934.5	1909.3	1905.1
60°	1573.7	1573.7	1569.3	1573.7	1561.1	1548.5	1548.5
62.5°	1229.4	1237.9	1254.7	1237.9	1229.4	1237.9	1225.3
65°	919.1	935.8	931.5	940.0	935.8	935.8	927.3
67.5°	692.4	696.6	700.7	705.1	705.1	705.1	705.1
70°	507.8	520.4	516.1	516.1	516.1	516.1	541.3
72.5°	339.9	356.7	352.5	360.8	360.8	369.3	360.8
75°	230.8	247.5	239.2	251.8	247.5	239.2	260.1
77.5°	155.3	163.7	167.9	172.0	167.9	163.7	167.9
80°	109.2	117.5	113.3	117.5	117.5	117.5	121.8
82.5°	67.2	79.8	75.5	79.8	75.5	79.8	79.8
85°	46.1	50.4	42.0	50.4	46.1	46.1	54.6
87.5°	29.4	25.2	25.2	29.4	25.2	29.4	25.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)