

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: P248782

Luminaire Tested: **LD8B150D010 ER8B150835 8LBSW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248782
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 ER8B150835 8LBSW0GPH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3500 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15041.0 lumens
Efficiency: N/A
Efficacy: 94.9 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

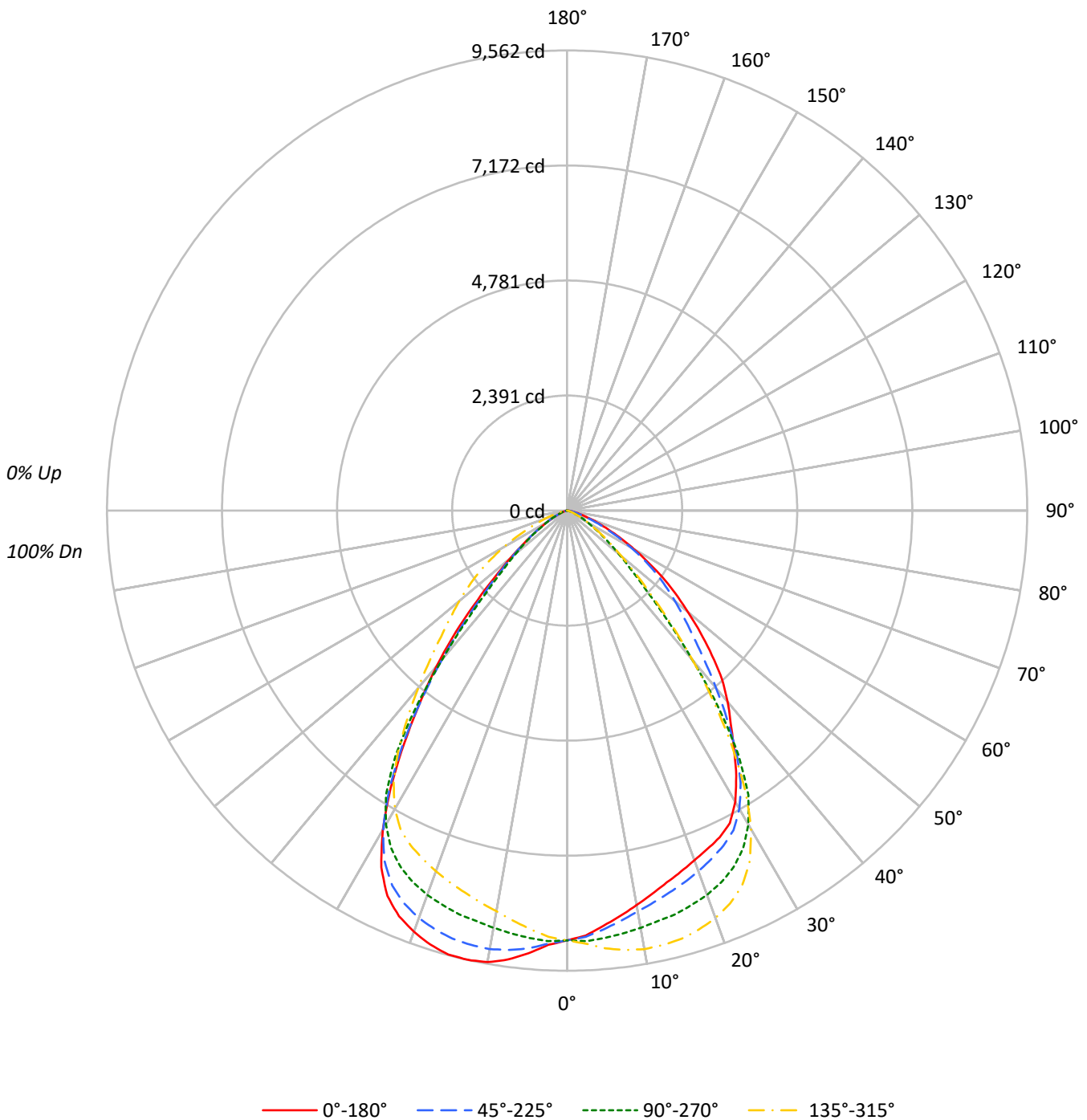
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	275350	275350	275350	275350
5°	268035	275996	285849	275996
10°	260619	275633	298297	275633
15°	255412	277270	304827	277270
20°	253676	278858	305612	278858
25°	255007	278297	300698	278297
30°	248702	268108	272925	268108
35°	227488	233883	221905	233883
40°	208858	162694	169896	162694
45°	185574	99254	114840	99254
50°	157077	66298	73629	66298
55°	130097	45240	47815	45240
60°	99225	30115	30380	30115
65°	70302	18767	17183	18767
70°	50706	12568	11405	12568
75°	32204	6243	5195	6243
80°	22464	4653	3853	4653
85°	20061	0	1521	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	849.9	5.7
10°-20°	2461.2	16.4
20°-30°	3726.7	24.8
30°-40°	3735.1	24.8
40°-50°	2345.5	15.6
50°-60°	1249.9	8.3
60°-70°	514.0	3.4
70°-80°	135.8	0.9
80°-90°	23.0	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°	7037.8	46.8
0°-40°	10772.9	71.6
0°-60°	14368.3	95.5
0°-90°	15041.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15041.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	8929	8929	8929	8929	8929	
5°	8659	8916	9235	8916	8659	817
15°	8001	8685	9548	8685	8001	2263
25°	7495	8179	8838	8179	7495	3437
35°	6043	6213	5895	6213	6043	3786
45°	4255	2276	2633	2276	4255	3273
55°	2420	842	889	842	2420	2157
65°	964	257	236	257	964	1000
75°	270	52	44	52	270	306
85°	57	0	4	0	57	62
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°	8929.4	8929.4	8929.4	8929.4	8929.4	8929.4	8929.4	8929.4	8929.4	8929.4	8929.4
2.5°	8837.8	8829.0	8824.7	8833.5	8837.8	8855.2	8850.9	8859.6	8859.6	8864.0	8872.7
5°	8659.1	8654.6	8659.1	8659.1	8676.5	8693.9	8689.6	8702.7	8711.3	8733.2	8741.8
7.5°	8493.4	8493.4	8489.0	8506.4	8515.2	8541.4	8536.9	8558.8	8571.9	8593.6	8624.1
10°	8323.3	8323.3	8327.6	8340.7	8345.2	8384.3	8384.3	8414.8	8432.3	8454.1	8493.4
12.5°	8157.7	8157.7	8183.9	8175.1	8192.5	8223.0	8236.1	8266.6	8292.8	8336.4	8375.7
15°	8000.6	8000.6	8009.4	8031.2	8044.3	8083.6	8105.3	8140.3	8170.8	8214.4	8271.1
17.5°	7865.5	7861.2	7865.5	7891.7	7917.9	7952.7	7970.1	8013.7	8044.3	8101.0	8153.4
20°	7730.4	7739.2	7739.2	7760.9	7778.3	7821.9	7839.3	7887.4	7922.2	7974.4	8035.6
22.5°	7612.6	7608.3	7608.3	7638.8	7651.9	7691.1	7708.5	7752.1	7791.4	7835.0	7891.7
25°	7494.9	7486.1	7503.7	7508.0	7516.6	7560.2	7573.3	7603.9	7643.2	7682.5	7739.2
27.5°	7320.5	7311.9	7316.2	7333.6	7346.7	7381.5	7390.3	7420.8	7451.3	7486.1	7534.2
30°	6984.7	6976.1	6971.8	7002.3	7015.4	7041.4	7054.5	7106.9	7115.5	7154.8	7189.7
32.5°	6540.0	6535.7	6544.5	6570.5	6583.6	6618.6	6636.0	6666.5	6688.2	6710.1	6744.9
35°	6043.1	6034.3	6043.1	6069.3	6069.3	6099.8	6112.9	6125.8	6121.5	6125.8	6117.2
37.5°	5580.9	5576.5	5580.9	5593.9	5580.9	5593.9	5580.9	5554.7	5506.8	5454.4	5402.0
40°	5188.5	5192.8	5166.7	5184.2	5136.1	5127.4	5079.5	5014.0	4918.2	4813.6	4665.3
42.5°	4769.9	4756.8	4739.4	4748.1	4708.9	4678.2	4599.8	4517.1	4394.9	4220.6	4041.7
45°	4255.4	4251.1	4242.3	4238.0	4211.8	4181.3	4115.8	4020.0	3884.8	3706.1	3492.4
47.5°	3754.0	3740.9	3740.9	3745.2	3714.7	3710.4	3658.0	3575.3	3457.5	3283.1	3060.7
50°	3274.3	3270.0	3278.8	3296.2	3274.3	3265.7	3230.9	3174.2	3069.5	2921.3	2711.9
52.5°	2842.7	2838.4	2847.2	2868.9	2860.1	2868.9	2834.1	2790.5	2720.7	2576.7	2393.7
55°	2419.9	2419.9	2419.9	2445.9	2445.9	2445.9	2428.5	2402.5	2337.0	2232.3	2062.4
57.5°	1979.5	1983.8	2010.0	2014.3	2010.0	2018.8	2014.3	1988.1	1944.7	1870.5	1739.7
60°	1608.9	1608.9	1622.0	1635.1	1630.6	1635.1	1635.1	1622.0	1578.4	1517.4	1412.7
62.5°	1273.1	1286.2	1277.4	1286.2	1303.6	1286.2	1277.4	1268.8	1238.3	1199.0	1111.8
65°	963.5	972.3	972.3	976.6	967.8	972.3	954.9	941.8	924.4	880.8	824.1
67.5°	732.6	732.6	732.6	732.6	728.1	723.8	719.5	706.4	675.9	658.5	597.3
70°	562.4	536.2	536.2	536.2	536.2	540.7	527.6	510.2	501.4	470.9	427.3
72.5°	374.9	383.7	374.9	374.9	366.3	370.6	353.2	344.4	335.8	318.4	292.2
75°	270.3	248.6	257.2	261.7	248.6	257.2	239.8	222.4	222.4	209.3	196.2
77.5°	174.4	170.1	174.4	178.7	174.4	170.1	161.3	152.5	152.5	148.2	135.1
80°	126.5	122.0	122.0	122.0	117.7	122.0	113.4	113.4	104.6	100.3	91.5
82.5°	82.9	82.9	78.4	82.9	78.4	82.9	69.8	69.8	69.8	65.3	56.7
85°	56.7	47.9	47.9	52.4	43.6	52.4	47.9	43.6	39.3	39.3	34.8
87.5°	26.2	30.5	26.2	30.5	26.2	26.2	30.5	26.2	26.2	17.4	17.4
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°	8929.4	8929.4	8929.4	8929.4	8929.4	8929.4	8929.4	8929.4	8929.4	8929.4	8929.4
2.5°	8885.8	8890.1	8890.1	8907.7	8916.3	8920.6	8920.6	8955.6	8942.5	8951.3	8959.9
5°	8759.4	8785.4	8794.2	8794.2	8842.1	8859.6	8877.0	8916.3	8920.6	8946.8	8977.3
7.5°	8637.2	8667.7	8685.3	8724.4	8754.9	8785.4	8837.8	8864.0	8890.1	8925.1	8964.2
10°	8519.5	8554.5	8589.3	8619.8	8667.7	8707.0	8741.8	8802.8	8833.5	8881.4	8933.7
12.5°	8406.2	8454.1	8484.7	8536.9	8589.3	8624.1	8676.5	8733.2	8781.1	8829.0	8890.1
15°	8305.9	8362.6	8397.4	8454.1	8510.9	8558.8	8615.5	8685.3	8720.1	8776.8	8833.5
17.5°	8196.8	8258.0	8301.6	8353.8	8423.6	8475.9	8524.0	8593.6	8637.2	8698.2	8763.7
20°	8083.6	8144.6	8196.8	8249.2	8319.0	8371.2	8427.9	8497.8	8545.7	8606.7	8659.1
22.5°	7948.4	8005.1	8061.7	8122.7	8192.5	8236.1	8301.6	8362.6	8414.8	8471.6	8524.0
25°	7774.0	7843.8	7887.4	7943.9	8000.6	8048.6	8118.4	8179.4	8223.0	8275.4	8323.3
27.5°	7569.0	7621.4	7656.3	7704.2	7760.9	7804.5	7856.7	7917.9	7961.5	8009.4	8044.3
30°	7220.2	7268.3	7298.8	7333.6	7390.3	7429.6	7473.2	7529.7	7560.2	7595.2	7625.7
32.5°	6762.3	6801.7	6819.1	6845.3	6884.6	6923.7	6958.7	7006.6	7019.7	7041.4	7041.4
35°	6099.8	6108.4	6104.1	6112.9	6130.3	6152.0	6182.5	6213.0	6230.4	6230.4	6217.5
37.5°	5323.6	5271.4	5214.7	5171.0	5157.9	5149.2	5166.7	5179.7	5197.3	5205.9	5184.2
40°	4517.1	4399.4	4272.8	4159.4	4081.0	4046.2	4033.1	4041.7	4041.7	4072.2	4072.2
42.5°	3823.8	3640.6	3453.2	3283.1	3169.7	3082.6	3043.3	3043.3	3047.6	3069.5	3082.6
45°	3248.3	3017.1	2799.1	2611.7	2454.7	2341.3	2289.1	2276.0	2271.6	2280.3	2310.8
47.5°	2807.9	2568.1	2341.3	2110.3	1944.7	1831.2	1783.3	1765.7	1748.3	1765.7	1770.2
50°	2463.5	2214.9	1975.2	1744.0	1569.6	1469.3	1408.2	1382.0	1377.7	1377.7	1386.5
52.5°	2149.4	1918.5	1678.7	1443.2	1260.0	1164.2	1107.5	1094.4	1077.0	1094.4	1094.4
55°	1853.0	1622.0	1386.5	1164.2	1011.5	911.3	858.9	841.5	832.7	845.8	845.8
57.5°	1530.5	1334.1	1116.3	915.6	763.1	693.3	654.0	632.2	627.8	636.6	627.8
60°	1255.7	1090.1	902.5	719.5	601.7	527.6	497.1	488.3	479.5	488.3	488.3
62.5°	994.0	854.6	701.9	562.4	462.1	409.9	374.9	374.9	370.6	370.6	374.9
65°	736.9	627.8	518.8	401.1	322.7	283.4	257.2	257.2	252.9	257.2	252.9
67.5°	536.2	462.1	374.9	292.2	231.1	209.3	191.8	178.7	187.5	178.7	174.4
70°	392.5	331.3	270.3	222.4	178.7	157.0	143.9	139.4	130.8	130.8	130.8
72.5°	261.7	222.4	183.1	143.9	117.7	95.8	91.5	82.9	74.1	78.4	87.2
75°	174.4	148.2	130.8	104.6	78.4	78.4	52.4	52.4	43.6	52.4	39.3
77.5°	122.0	100.3	78.4	65.3	52.4	47.9	34.8	34.8	30.5	30.5	30.5
80°	87.2	74.1	56.7	47.9	34.8	34.8	30.5	26.2	21.7	21.7	26.2
82.5°	52.4	39.3	39.3	34.8	21.7	17.4	13.1	17.4	8.8	8.8	8.8
85°	30.5	26.2	21.7	13.1	8.8	8.8	4.3	0.0	4.3	4.3	0.0
87.5°	17.4	8.8	8.8	4.3	0.0	4.3	4.3	0.0	0.0	0.0	8.8
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	8929.4	8929.4	8929.4	8929.4	8929.4	8929.4	8929.4	8929.4	8929.4	8929.4	8929.4
2.5°	8981.8	8977.3	8986.1	8986.1	9012.3	9007.8	9020.9	9020.9	9012.3	9016.6	9034.0
5°	9012.3	9025.4	9051.4	9073.3	9112.4	9130.0	9151.7	9173.6	9177.9	9191.0	9204.1
7.5°	9012.3	9055.9	9086.4	9125.5	9177.9	9208.4	9256.3	9295.6	9313.1	9334.8	9361.0
10°	8994.7	9038.3	9095.0	9138.6	9204.1	9252.0	9300.0	9361.0	9387.2	9422.0	9457.0
12.5°	8959.9	9007.8	9068.8	9125.5	9199.6	9243.2	9304.3	9361.0	9400.3	9448.2	9487.5
15°	8907.7	8964.2	9020.9	9077.6	9156.0	9208.4	9265.1	9330.5	9369.8	9422.0	9457.0
17.5°	8824.7	8885.8	8938.2	8990.4	9064.5	9125.5	9177.9	9238.9	9278.2	9321.9	9369.8
20°	8724.4	8781.1	8837.8	8881.4	8955.6	9007.8	9064.5	9121.2	9151.7	9160.5	9234.6
22.5°	8598.1	8637.2	8680.8	8750.6	8794.2	8842.1	8894.5	8946.8	8977.3	9025.4	9051.4
25°	8388.6	8427.9	8475.9	8506.4	8558.8	8598.1	8650.3	8707.0	8724.4	8759.4	8785.4
27.5°	8096.7	8118.4	8140.3	8166.3	8196.8	8218.7	8249.2	8275.4	8292.8	8310.2	8327.6
30°	7634.4	7634.4	7634.4	7617.0	7630.1	7643.2	7647.5	7643.2	7643.2	7638.8	7638.8
32.5°	7024.0	6989.2	6949.9	6915.1	6902.0	6884.6	6875.8	6862.7	6841.0	6827.9	6832.2
35°	6199.9	6121.5	6073.6	6030.0	5995.1	5968.9	5955.8	5942.7	5938.4	5921.0	5903.4
37.5°	5171.0	5114.3	5079.5	5053.3	5022.8	4996.6	5000.9	5005.4	5018.3	5009.7	5014.0
40°	4081.0	4067.9	4081.0	4050.5	4041.7	4050.5	4072.2	4102.9	4120.3	4137.7	4168.2
42.5°	3104.4	3126.1	3156.8	3156.8	3169.7	3187.3	3213.3	3261.4	3287.4	3317.9	3352.9
45°	2337.0	2363.2	2402.5	2415.4	2424.2	2445.9	2476.6	2515.7	2533.1	2559.3	2589.8
47.5°	1800.7	1818.1	1839.9	1861.8	1883.5	1892.3	1922.8	1922.8	1944.7	1962.1	1970.7
50°	1403.9	1421.3	1438.8	1451.9	1460.7	1473.8	1482.4	1495.5	1499.8	1508.6	1512.9
52.5°	1098.7	1120.6	1120.6	1129.2	1142.3	1155.4	1151.1	1155.4	1159.7	1159.7	1172.8
55°	858.9	858.9	872.0	872.0	880.8	876.3	880.8	880.8	880.8	880.8	885.1
57.5°	640.9	645.3	658.5	649.7	645.3	654.0	645.3	654.0	649.7	658.5	645.3
60°	492.6	492.6	497.1	497.1	501.4	501.4	501.4	497.1	497.1	492.6	492.6
62.5°	370.6	374.9	379.4	374.9	374.9	374.9	370.6	370.6	366.3	361.8	361.8
65°	248.6	244.2	252.9	244.2	248.6	248.6	244.2	248.6	235.5	239.8	235.5
67.5°	178.7	174.4	170.1	174.4	170.1	165.6	165.6	170.1	174.4	161.3	161.3
70°	117.7	122.0	117.7	122.0	126.5	126.5	122.0	117.7	122.0	113.4	117.7
72.5°	74.1	74.1	74.1	74.1	74.1	78.4	78.4	78.4	69.8	69.8	65.3
75°	34.8	47.9	39.3	34.8	47.9	47.9	43.6	43.6	39.3	39.3	39.3
77.5°	34.8	26.2	26.2	26.2	26.2	26.2	26.2	26.2	21.7	26.2	21.7
80°	17.4	17.4	17.4	13.1	17.4	17.4	21.7	17.4	17.4	13.1	21.7
82.5°	8.8	8.8	8.8	0.0	4.3	8.8	8.8	4.3	8.8	8.8	4.3
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: P248782

CATALOG NUMBER: LD8B150D010 ER8B150835 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	8929.4	8929.4	8929.4	8929.4	8929.4	8929.4	8929.4	8929.4	8929.4	8929.4	8929.4
2.5°	9029.7	9025.4	9029.7	9034.0	9029.7	9025.4	9029.7	9034.0	9016.6	9012.3	9020.9
5°	9221.5	9221.5	9230.1	9234.6	9230.1	9221.5	9221.5	9204.1	9191.0	9177.9	9173.6
7.5°	9387.2	9396.0	9404.6	9408.9	9404.6	9396.0	9387.2	9361.0	9334.8	9313.1	9295.6
10°	9487.5	9500.6	9518.0	9526.6	9518.0	9500.6	9487.5	9457.0	9422.0	9387.2	9361.0
12.5°	9531.1	9544.2	9565.9	9561.6	9565.9	9544.2	9531.1	9487.5	9448.2	9400.3	9361.0
15°	9500.6	9518.0	9539.7	9548.5	9539.7	9518.0	9500.6	9457.0	9422.0	9369.8	9330.5
17.5°	9404.6	9430.8	9443.9	9457.0	9443.9	9430.8	9404.6	9369.8	9321.9	9278.2	9238.9
20°	9273.8	9291.3	9308.8	9313.1	9308.8	9291.3	9273.8	9234.6	9160.5	9151.7	9121.2
22.5°	9086.4	9099.5	9138.6	9125.5	9138.6	9099.5	9086.4	9051.4	9025.4	8977.3	8946.8
25°	8815.9	8829.0	8833.5	8837.8	8833.5	8829.0	8815.9	8785.4	8759.4	8724.4	8707.0
27.5°	8349.5	8349.5	8358.1	8362.6	8358.1	8349.5	8349.5	8327.6	8310.2	8292.8	8275.4
30°	7643.2	7643.2	7643.2	7665.0	7643.2	7643.2	7643.2	7638.8	7638.8	7643.2	7643.2
32.5°	6827.9	6819.1	6810.4	6819.1	6810.4	6819.1	6827.9	6832.2	6827.9	6841.0	6862.7
35°	5903.4	5899.1	5912.2	5894.8	5912.2	5899.1	5903.4	5903.4	5921.0	5938.4	5942.7
37.5°	5018.3	5009.7	5027.1	5009.7	5027.1	5009.7	5018.3	5014.0	5009.7	5018.3	5005.4
40°	4177.0	4185.6	4185.6	4220.6	4185.6	4185.6	4177.0	4168.2	4137.7	4120.3	4102.9
42.5°	3370.3	3396.5	3387.7	3413.9	3387.7	3396.5	3370.3	3352.9	3317.9	3287.4	3261.4
45°	2607.2	2624.8	2624.8	2633.4	2624.8	2624.8	2607.2	2589.8	2559.3	2533.1	2515.7
47.5°	2001.2	2001.2	2001.2	2005.7	2001.2	2001.2	2001.2	1970.7	1962.1	1944.7	1922.8
50°	1521.7	1526.0	1530.5	1534.8	1530.5	1526.0	1521.7	1512.9	1508.6	1499.8	1495.5
52.5°	1168.5	1172.8	1164.2	1172.8	1164.2	1172.8	1168.5	1172.8	1159.7	1159.7	1155.4
55°	885.1	880.8	885.1	889.4	885.1	880.8	885.1	885.1	880.8	880.8	880.8
57.5°	649.7	640.9	640.9	640.9	640.9	640.9	649.7	645.3	658.5	649.7	654.0
60°	484.0	488.3	488.3	492.6	488.3	488.3	484.0	492.6	492.6	497.1	497.1
62.5°	357.5	370.6	361.8	370.6	361.8	370.6	357.5	361.8	361.8	366.3	370.6
65°	231.1	231.1	231.1	235.5	231.1	231.1	231.1	235.5	239.8	235.5	248.6
67.5°	157.0	161.3	170.1	165.6	170.1	161.3	157.0	161.3	161.3	174.4	170.1
70°	126.5	113.4	113.4	126.5	113.4	113.4	126.5	117.7	113.4	122.0	117.7
72.5°	74.1	65.3	74.1	74.1	74.1	65.3	74.1	65.3	69.8	69.8	78.4
75°	39.3	34.8	30.5	43.6	30.5	34.8	39.3	39.3	39.3	39.3	43.6
77.5°	26.2	21.7	30.5	30.5	30.5	21.7	26.2	21.7	26.2	21.7	26.2
80°	13.1	17.4	13.1	21.7	13.1	17.4	13.1	21.7	13.1	17.4	17.4
82.5°	4.3	8.8	8.8	8.8	8.8	8.8	4.3	4.3	8.8	8.8	4.3
85°	0.0	8.8	4.3	4.3	4.3	8.8	0.0	0.0	0.0	0.0	0.0
87.5°	4.3	0.0	0.0	4.3	0.0	0.0	4.3	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: P248782

CATALOG NUMBER: LD8B150D010 ER8B150835 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	8929.4	8929.4	8929.4	8929.4	8929.4	8929.4	8929.4	8929.4	8929.4	8929.4	8929.4
2.5°	9020.9	9007.8	9012.3	8986.1	8986.1	8977.3	8981.8	8959.9	8951.3	8942.5	8955.6
5°	9151.7	9130.0	9112.4	9073.3	9051.4	9025.4	9012.3	8977.3	8946.8	8920.6	8916.3
7.5°	9256.3	9208.4	9177.9	9125.5	9086.4	9055.9	9012.3	8964.2	8925.1	8890.1	8864.0
10°	9300.0	9252.0	9204.1	9138.6	9095.0	9038.3	8994.7	8933.7	8881.4	8833.5	8802.8
12.5°	9304.3	9243.2	9199.6	9125.5	9068.8	9007.8	8959.9	8890.1	8829.0	8781.1	8733.2
15°	9265.1	9208.4	9156.0	9077.6	9020.9	8964.2	8907.7	8833.5	8776.8	8720.1	8685.3
17.5°	9177.9	9125.5	9064.5	8990.4	8938.2	8885.8	8824.7	8763.7	8698.2	8637.2	8593.6
20°	9064.5	9007.8	8955.6	8881.4	8837.8	8781.1	8724.4	8659.1	8606.7	8545.7	8497.8
22.5°	8894.5	8842.1	8794.2	8750.6	8680.8	8637.2	8598.1	8524.0	8471.6	8414.8	8362.6
25°	8650.3	8598.1	8558.8	8506.4	8475.9	8427.9	8388.6	8323.3	8275.4	8223.0	8179.4
27.5°	8249.2	8218.7	8196.8	8166.3	8140.3	8118.4	8096.7	8044.3	8009.4	7961.5	7917.9
30°	7647.5	7643.2	7630.1	7617.0	7634.4	7634.4	7634.4	7625.7	7595.2	7560.2	7529.7
32.5°	6875.8	6884.6	6902.0	6915.1	6949.9	6989.2	7024.0	7041.4	7041.4	7019.7	7006.6
35°	5955.8	5968.9	5995.1	6030.0	6073.6	6121.5	6199.9	6217.5	6230.4	6230.4	6213.0
37.5°	5000.9	4996.6	5022.8	5053.3	5079.5	5114.3	5171.0	5184.2	5205.9	5197.3	5179.7
40°	4072.2	4050.5	4041.7	4050.5	4081.0	4067.9	4081.0	4072.2	4072.2	4041.7	4041.7
42.5°	3213.3	3187.3	3169.7	3156.8	3156.8	3126.1	3104.4	3082.6	3069.5	3047.6	3043.3
45°	2476.6	2445.9	2424.2	2415.4	2402.5	2363.2	2337.0	2310.8	2280.3	2271.6	2276.0
47.5°	1922.8	1892.3	1883.5	1861.8	1839.9	1818.1	1800.7	1770.2	1765.7	1748.3	1765.7
50°	1482.4	1473.8	1460.7	1451.9	1438.8	1421.3	1403.9	1386.5	1377.7	1377.7	1382.0
52.5°	1151.1	1155.4	1142.3	1129.2	1120.6	1120.6	1098.7	1094.4	1094.4	1077.0	1094.4
55°	880.8	876.3	880.8	872.0	872.0	858.9	858.9	845.8	845.8	832.7	841.5
57.5°	645.3	654.0	645.3	649.7	658.5	645.3	640.9	627.8	636.6	627.8	632.2
60°	501.4	501.4	501.4	497.1	497.1	492.6	492.6	488.3	488.3	479.5	488.3
62.5°	370.6	374.9	374.9	374.9	379.4	374.9	370.6	374.9	370.6	370.6	374.9
65°	244.2	248.6	248.6	244.2	252.9	244.2	248.6	252.9	257.2	252.9	257.2
67.5°	165.6	165.6	170.1	174.4	170.1	174.4	178.7	174.4	178.7	187.5	178.7
70°	122.0	126.5	126.5	122.0	117.7	122.0	117.7	130.8	130.8	130.8	139.4
72.5°	78.4	78.4	74.1	74.1	74.1	74.1	74.1	87.2	78.4	74.1	82.9
75°	43.6	47.9	47.9	34.8	39.3	47.9	34.8	39.3	52.4	43.6	52.4
77.5°	26.2	26.2	26.2	26.2	26.2	26.2	34.8	30.5	30.5	30.5	34.8
80°	21.7	17.4	17.4	13.1	17.4	17.4	17.4	26.2	21.7	21.7	26.2
82.5°	8.8	8.8	4.3	0.0	8.8	8.8	8.8	8.8	8.8	8.8	17.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	4.3	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.8	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: P248782

CATALOG NUMBER: LD8B150D010 ER8B150835 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	8929.4	8929.4	8929.4	8929.4	8929.4	8929.4	8929.4	8929.4	8929.4	8929.4	8929.4
2.5°	8920.6	8920.6	8916.3	8907.7	8890.1	8890.1	8885.8	8872.7	8864.0	8859.6	8859.6
5°	8877.0	8859.6	8842.1	8794.2	8794.2	8785.4	8759.4	8741.8	8733.2	8711.3	8702.7
7.5°	8837.8	8785.4	8754.9	8724.4	8685.3	8667.7	8637.2	8624.1	8593.6	8571.9	8558.8
10°	8741.8	8707.0	8667.7	8619.8	8589.3	8554.5	8519.5	8493.4	8454.1	8432.3	8414.8
12.5°	8676.5	8624.1	8589.3	8536.9	8484.7	8454.1	8406.2	8375.7	8336.4	8292.8	8266.6
15°	8615.5	8558.8	8510.9	8454.1	8397.4	8362.6	8305.9	8271.1	8214.4	8170.8	8140.3
17.5°	8524.0	8475.9	8423.6	8353.8	8301.6	8258.0	8196.8	8153.4	8101.0	8044.3	8013.7
20°	8427.9	8371.2	8319.0	8249.2	8196.8	8144.6	8083.6	8035.6	7974.4	7922.2	7887.4
22.5°	8301.6	8236.1	8192.5	8122.7	8061.7	8005.1	7948.4	7891.7	7835.0	7791.4	7752.1
25°	8118.4	8048.6	8000.6	7943.9	7887.4	7843.8	7774.0	7739.2	7682.5	7643.2	7603.9
27.5°	7856.7	7804.5	7760.9	7704.2	7656.3	7621.4	7569.0	7534.2	7486.1	7451.3	7420.8
30°	7473.2	7429.6	7390.3	7333.6	7298.8	7268.3	7220.2	7189.7	7154.8	7115.5	7106.9
32.5°	6958.7	6923.7	6884.6	6845.3	6819.1	6801.7	6762.3	6744.9	6710.1	6688.2	6666.5
35°	6182.5	6152.0	6130.3	6112.9	6104.1	6108.4	6099.8	6117.2	6125.8	6121.5	6125.8
37.5°	5166.7	5149.2	5157.9	5171.0	5214.7	5271.4	5323.6	5402.0	5454.4	5506.8	5554.7
40°	4033.1	4046.2	4081.0	4159.4	4272.8	4399.4	4517.1	4665.3	4813.6	4918.2	5014.0
42.5°	3043.3	3082.6	3169.7	3283.1	3453.2	3640.6	3823.8	4041.7	4220.6	4394.9	4517.1
45°	2289.1	2341.3	2454.7	2611.7	2799.1	3017.1	3248.3	3492.4	3706.1	3884.8	4020.0
47.5°	1783.3	1831.2	1944.7	2110.3	2341.3	2568.1	2807.9	3060.7	3283.1	3457.5	3575.3
50°	1408.2	1469.3	1569.6	1744.0	1975.2	2214.9	2463.5	2711.9	2921.3	3069.5	3174.2
52.5°	1107.5	1164.2	1260.0	1443.2	1678.7	1918.5	2149.4	2393.7	2576.7	2720.7	2790.5
55°	858.9	911.3	1011.5	1164.2	1386.5	1622.0	1853.0	2062.4	2232.3	2337.0	2402.5
57.5°	654.0	693.3	763.1	915.6	1116.3	1334.1	1530.5	1739.7	1870.5	1944.7	1988.1
60°	497.1	527.6	601.7	719.5	902.5	1090.1	1255.7	1412.7	1517.4	1578.4	1622.0
62.5°	374.9	409.9	462.1	562.4	701.9	854.6	994.0	1111.8	1199.0	1238.3	1268.8
65°	257.2	283.4	322.7	401.1	518.8	627.8	736.9	824.1	880.8	924.4	941.8
67.5°	191.8	209.3	231.1	292.2	374.9	462.1	536.2	597.3	658.5	675.9	706.4
70°	143.9	157.0	178.7	222.4	270.3	331.3	392.5	427.3	470.9	501.4	510.2
72.5°	91.5	95.8	117.7	143.9	183.1	222.4	261.7	292.2	318.4	335.8	344.4
75°	52.4	78.4	78.4	104.6	130.8	148.2	174.4	196.2	209.3	222.4	222.4
77.5°	34.8	47.9	52.4	65.3	78.4	100.3	122.0	135.1	148.2	152.5	152.5
80°	30.5	34.8	34.8	47.9	56.7	74.1	87.2	91.5	100.3	104.6	113.4
82.5°	13.1	17.4	21.7	34.8	39.3	39.3	52.4	56.7	65.3	69.8	69.8
85°	4.3	8.8	8.8	13.1	21.7	26.2	30.5	34.8	39.3	39.3	43.6
87.5°	4.3	4.3	0.0	4.3	8.8	8.8	17.4	17.4	17.4	26.2	26.2
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: P248782

CATALOG NUMBER: LD8B150D010 ER8B150835 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	8929.4	8929.4	8929.4	8929.4	8929.4	8929.4	8929.4
2.5°	8850.9	8855.2	8837.8	8833.5	8824.7	8829.0	8837.8
5°	8689.6	8693.9	8676.5	8659.1	8659.1	8654.6	8659.1
7.5°	8536.9	8541.4	8515.2	8506.4	8489.0	8493.4	8493.4
10°	8384.3	8384.3	8345.2	8340.7	8327.6	8323.3	8323.3
12.5°	8236.1	8223.0	8192.5	8175.1	8183.9	8157.7	8157.7
15°	8105.3	8083.6	8044.3	8031.2	8009.4	8000.6	8000.6
17.5°	7970.1	7952.7	7917.9	7891.7	7865.5	7861.2	7865.5
20°	7839.3	7821.9	7778.3	7760.9	7739.2	7739.2	7730.4
22.5°	7708.5	7691.1	7651.9	7638.8	7608.3	7608.3	7612.6
25°	7573.3	7560.2	7516.6	7508.0	7503.7	7486.1	7494.9
27.5°	7390.3	7381.5	7346.7	7333.6	7316.2	7311.9	7320.5
30°	7054.5	7041.4	7015.4	7002.3	6971.8	6976.1	6984.7
32.5°	6636.0	6618.6	6583.6	6570.5	6544.5	6535.7	6540.0
35°	6112.9	6099.8	6069.3	6069.3	6043.1	6034.3	6043.1
37.5°	5580.9	5593.9	5580.9	5593.9	5580.9	5576.5	5580.9
40°	5079.5	5127.4	5136.1	5184.2	5166.7	5192.8	5188.5
42.5°	4599.8	4678.2	4708.9	4748.1	4739.4	4756.8	4769.9
45°	4115.8	4181.3	4211.8	4238.0	4242.3	4251.1	4255.4
47.5°	3658.0	3710.4	3714.7	3745.2	3740.9	3740.9	3754.0
50°	3230.9	3265.7	3274.3	3296.2	3278.8	3270.0	3274.3
52.5°	2834.1	2868.9	2860.1	2868.9	2847.2	2838.4	2842.7
55°	2428.5	2445.9	2445.9	2445.9	2419.9	2419.9	2419.9
57.5°	2014.3	2018.8	2010.0	2014.3	2010.0	1983.8	1979.5
60°	1635.1	1635.1	1630.6	1635.1	1622.0	1608.9	1608.9
62.5°	1277.4	1286.2	1303.6	1286.2	1277.4	1286.2	1273.1
65°	954.9	972.3	967.8	976.6	972.3	972.3	963.5
67.5°	719.5	723.8	728.1	732.6	732.6	732.6	732.6
70°	527.6	540.7	536.2	536.2	536.2	536.2	562.4
72.5°	353.2	370.6	366.3	374.9	374.9	383.7	374.9
75°	239.8	257.2	248.6	261.7	257.2	248.6	270.3
77.5°	161.3	170.1	174.4	178.7	174.4	170.1	174.4
80°	113.4	122.0	117.7	122.0	122.0	122.0	126.5
82.5°	69.8	82.9	78.4	82.9	78.4	82.9	82.9
85°	47.9	52.4	43.6	52.4	47.9	47.9	56.7
87.5°	30.5	26.2	26.2	30.5	26.2	30.5	26.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)