

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: P248790

Luminaire Tested: **LD8B120D010 ER8B120840 8LBSW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248790
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 ER8B120840 8LBSW0GPH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 4000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11337.0 lumens
Efficiency: N/A
Efficacy: 95.8 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

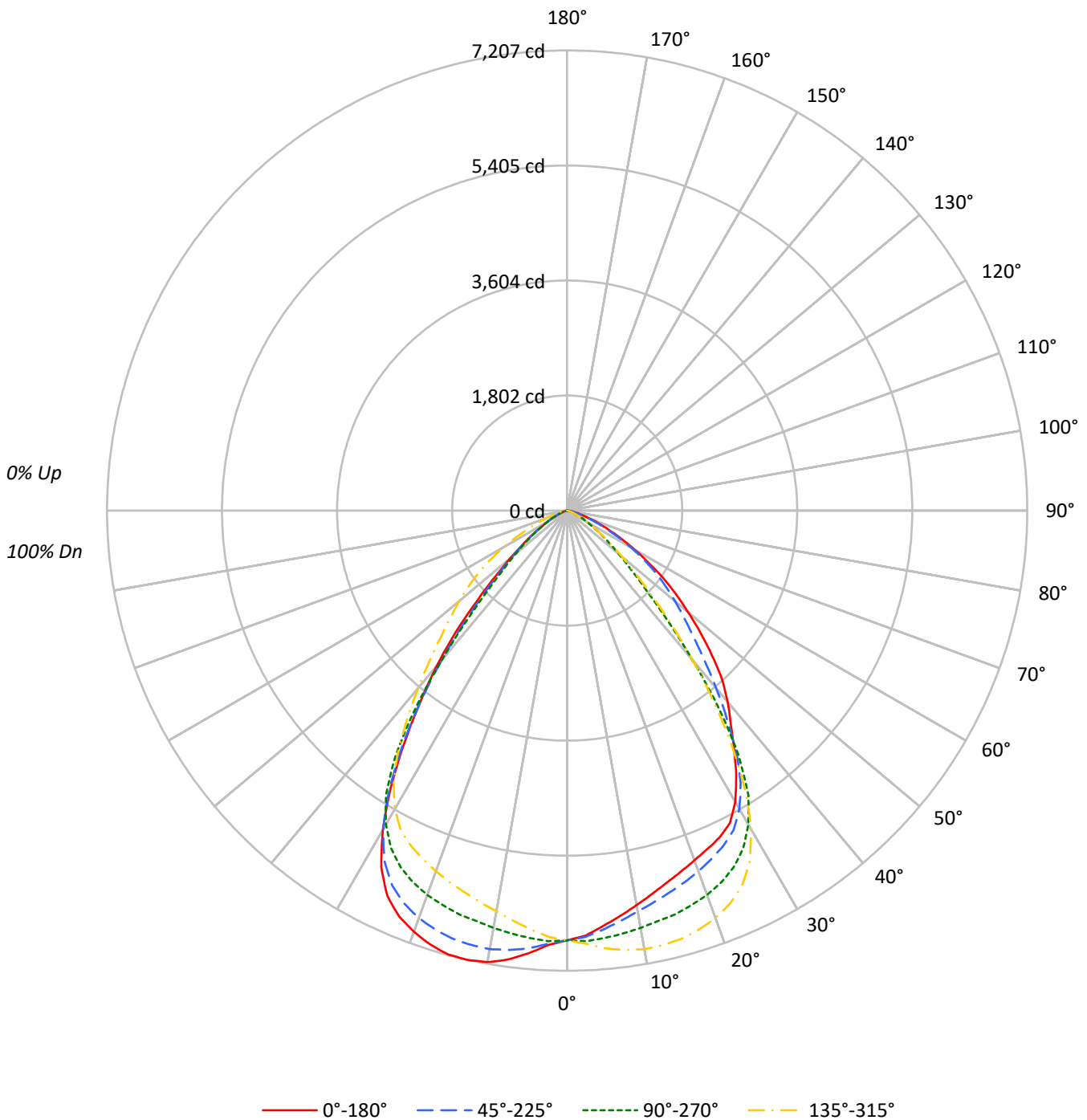
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P248790

CATALOG NUMBER: LD8B120D010 ER8B120840 8LBSW0GPH

Luminous Intensity Polar Plot





TEST NUMBER: P248790

CATALOG NUMBER: LD8B120D010 ER8B120840 8LBSW0GPH

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°	207541	207541	207541	207541
5°	202028	208027	215456	208027
10°	196439	207758	224839	207758
15°	192515	208991	229761	208991
20°	191205	210185	230350	210185
25°	192209	209762	226648	209762
30°	187455	202086	205718	202086
35°	171466	176288	167261	176288
40°	157421	122630	128056	122630
45°	139876	74811	86560	74811
50°	118397	49973	55495	49973
55°	98061	34101	36042	34101
60°	74790	22702	22899	22702
65°	52994	14141	12951	14141
70°	38219	9476	8601	9476
75°	24269	4706	3920	4706
80°	16941	3498	2912	3498
85°	15108	0	1132	0



TEST NUMBER: P248790

CATALOG NUMBER: LD8B120D010 ER8B120840 8LBSW0GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	640.6	5.7
10°-20°	1855.1	16.4
20°-30°	2809.0	24.8
30°-40°	2815.3	24.8
40°-50°	1767.9	15.6
50°-60°	942.1	8.3
60°-70°	387.4	3.4
70°-80°	102.3	0.9
80°-90°	17.3	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°	5304.7	46.8
0°-40°	8120.0	71.6
0°-60°	10829.9	95.5
0°-90°	11337.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11337.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	6730	6730	6730	6730	6730	
5°	6527	6720	6960	6720	6527	615
15°	6030	6546	7197	6546	6030	1706
25°	5649	6165	6661	6165	5649	2591
35°	4555	4683	4443	4683	4555	2854
45°	3208	1716	1985	1716	3208	2467
55°	1824	634	670	634	1824	1626
65°	726	194	178	194	726	753
75°	204	40	33	40	204	231
85°	43	0	3	0	43	47
90°	0	0	0	0	0	



TEST NUMBER: P248790

CATALOG NUMBER: LD8B120D010 ER8B120840 8LBSW0GPH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	6730.4	6730.4	6730.4	6730.4	6730.4	6730.4	6730.4	6730.4	6730.4	6730.4	6730.4
2.5°	6661.4	6654.8	6651.6	6658.2	6661.4	6674.6	6671.3	6677.8	6677.8	6681.2	6687.7
5°	6526.7	6523.3	6526.7	6526.7	6539.8	6552.9	6549.7	6559.6	6566.1	6582.6	6589.1
7.5°	6401.9	6401.9	6398.5	6411.6	6418.2	6438.0	6434.6	6451.1	6461.0	6477.3	6500.3
10°	6273.6	6273.6	6276.9	6286.7	6290.1	6319.6	6319.6	6342.6	6355.7	6372.2	6401.9
12.5°	6148.8	6148.8	6168.5	6161.9	6175.0	6198.0	6207.9	6230.9	6250.6	6283.5	6313.1
15°	6030.4	6030.4	6037.0	6053.4	6063.3	6092.9	6109.3	6135.6	6158.6	6191.5	6234.3
17.5°	5928.5	5925.3	5928.5	5948.3	5968.0	5994.3	6007.4	6040.3	6063.3	6106.0	6145.5
20°	5826.7	5833.3	5833.3	5849.7	5862.8	5895.7	5908.8	5945.0	5971.3	6010.7	6056.8
22.5°	5738.0	5734.7	5734.7	5757.7	5767.6	5797.1	5810.2	5843.1	5872.7	5905.6	5948.3
25°	5649.2	5642.6	5655.8	5659.1	5665.6	5698.5	5708.3	5731.3	5760.9	5790.6	5833.3
27.5°	5517.7	5511.2	5514.5	5527.6	5537.5	5563.7	5570.4	5593.4	5616.3	5642.6	5678.8
30°	5264.6	5258.2	5254.9	5277.9	5287.8	5307.4	5317.3	5356.8	5363.3	5392.9	5419.1
32.5°	4929.5	4926.2	4932.8	4952.4	4962.3	4988.7	5001.8	5024.8	5041.2	5057.7	5083.9
35°	4554.9	4548.3	4554.9	4574.6	4574.6	4597.6	4607.5	4617.3	4614.0	4617.3	4610.8
37.5°	4206.6	4203.2	4206.6	4216.3	4206.6	4216.3	4206.6	4186.8	4150.7	4111.2	4071.7
40°	3910.7	3914.0	3894.4	3907.5	3871.2	3864.8	3828.6	3779.3	3707.0	3628.2	3516.4
42.5°	3595.3	3585.4	3572.3	3578.8	3549.3	3526.2	3467.1	3404.7	3312.6	3181.2	3046.4
45°	3207.5	3204.2	3197.6	3194.4	3174.6	3151.6	3102.2	3030.0	2928.2	2793.4	2632.3
47.5°	2829.5	2819.7	2819.7	2822.9	2799.9	2796.7	2757.2	2694.8	2606.1	2474.6	2307.0
50°	2468.0	2464.7	2471.4	2484.5	2468.0	2461.5	2435.2	2392.5	2313.6	2201.9	2044.0
52.5°	2142.7	2139.4	2146.0	2162.4	2155.8	2162.4	2136.2	2103.3	2050.7	1942.2	1804.2
55°	1824.0	1824.0	1824.0	1843.6	1843.6	1843.6	1830.5	1810.8	1761.5	1682.6	1554.5
57.5°	1492.0	1495.3	1515.0	1518.3	1515.0	1521.6	1518.3	1498.5	1465.8	1409.9	1311.3
60°	1212.7	1212.7	1222.6	1232.4	1229.0	1232.4	1232.4	1222.6	1189.7	1143.7	1064.8
62.5°	959.6	969.5	962.8	969.5	982.6	969.5	962.8	956.3	933.4	903.7	838.0
65°	726.3	732.9	732.9	736.1	729.5	732.9	719.8	709.9	696.8	663.9	621.2
67.5°	552.2	552.2	552.2	552.2	548.8	545.5	542.3	532.4	509.4	496.3	450.2
70°	423.9	404.2	404.2	404.2	404.2	407.6	397.7	384.6	377.9	354.9	322.1
72.5°	282.6	289.2	282.6	282.6	276.1	279.3	266.2	259.6	253.1	240.0	220.2
75°	203.7	187.3	193.8	197.2	187.3	193.8	180.7	167.6	167.6	157.7	147.8
77.5°	131.5	128.2	131.5	134.7	131.5	128.2	121.6	115.0	115.0	111.7	101.9
80°	95.4	92.0	92.0	92.0	88.7	92.0	85.5	85.5	78.9	75.6	69.0
82.5°	62.5	62.5	59.1	62.5	59.1	62.5	52.6	52.6	52.6	49.2	42.7
85°	42.7	36.1	36.1	39.5	32.9	39.5	36.1	32.9	29.6	29.6	26.2
87.5°	19.7	23.0	19.7	23.0	19.7	19.7	23.0	19.7	19.7	13.1	13.1
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: P248790

CATALOG NUMBER: LD8B120D010 ER8B120840 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	6730.4	6730.4	6730.4	6730.4	6730.4	6730.4	6730.4	6730.4	6730.4	6730.4	6730.4
2.5°	6697.5	6700.8	6700.8	6714.1	6720.5	6723.8	6723.8	6750.2	6740.3	6746.9	6753.4
5°	6602.3	6621.9	6628.6	6628.6	6664.7	6677.8	6690.9	6720.5	6723.8	6743.5	6766.5
7.5°	6510.2	6533.2	6546.5	6575.9	6598.9	6621.9	6661.4	6681.2	6700.8	6727.2	6756.7
10°	6421.5	6447.8	6474.1	6497.1	6533.2	6562.8	6589.1	6635.1	6658.2	6694.3	6733.7
12.5°	6336.1	6372.2	6395.2	6434.6	6474.1	6500.3	6539.8	6582.6	6618.7	6654.8	6700.8
15°	6260.5	6303.2	6329.5	6372.2	6415.0	6451.1	6493.8	6546.5	6572.7	6615.4	6658.2
17.5°	6178.3	6224.4	6257.2	6296.6	6349.2	6388.6	6424.8	6477.3	6510.2	6556.2	6605.6
20°	6092.9	6138.9	6178.3	6217.8	6270.4	6309.7	6352.5	6405.1	6441.2	6487.2	6526.7
22.5°	5991.0	6033.8	6076.4	6122.4	6175.0	6207.9	6257.2	6303.2	6342.6	6385.3	6424.8
25°	5859.6	5912.2	5945.0	5987.7	6030.4	6066.5	6119.1	6165.1	6198.0	6237.5	6273.6
27.5°	5705.1	5744.6	5770.8	5806.9	5849.7	5882.6	5921.9	5968.0	6000.9	6037.0	6063.3
30°	5442.1	5478.4	5501.4	5527.6	5570.4	5600.0	5632.8	5675.5	5698.5	5724.8	5747.8
32.5°	5097.1	5126.7	5139.8	5159.5	5189.2	5218.7	5245.0	5281.2	5291.0	5307.4	5307.4
35°	4597.6	4604.1	4600.9	4607.5	4620.6	4637.0	4660.0	4683.0	4696.1	4696.1	4686.4
37.5°	4012.6	3973.2	3930.5	3897.6	3887.8	3881.1	3894.4	3904.1	3917.4	3923.9	3907.5
40°	3404.7	3316.0	3220.6	3135.1	3076.0	3049.8	3039.9	3046.4	3046.4	3069.4	3069.4
42.5°	2882.2	2744.1	2602.8	2474.6	2389.1	2323.5	2293.9	2293.9	2297.1	2313.6	2323.5
45°	2448.4	2274.1	2109.8	1968.6	1850.2	1764.7	1725.3	1715.5	1712.2	1718.7	1741.7
47.5°	2116.4	1935.7	1764.7	1590.6	1465.8	1380.3	1344.2	1330.9	1317.8	1330.9	1334.3
50°	1856.8	1669.5	1488.8	1314.5	1183.1	1107.4	1061.5	1041.7	1038.5	1038.5	1045.1
52.5°	1620.1	1446.0	1265.3	1087.8	949.7	877.5	834.7	824.9	811.7	824.9	824.9
55°	1396.6	1222.6	1045.1	877.5	762.4	686.9	647.4	634.3	627.6	637.5	637.5
57.5°	1153.6	1005.6	841.4	690.1	575.2	522.5	492.9	476.6	473.2	479.8	473.2
60°	946.5	821.6	680.3	542.3	453.6	397.7	374.7	368.1	361.4	368.1	368.1
62.5°	749.3	644.1	529.0	423.9	348.3	309.0	282.6	282.6	279.3	279.3	282.6
65°	555.4	473.2	391.1	302.3	243.2	213.6	193.8	193.8	190.6	193.8	190.6
67.5°	404.2	348.3	282.6	220.2	174.2	157.7	144.6	134.7	141.4	134.7	131.5
70°	295.8	249.7	203.7	167.6	134.7	118.4	108.5	105.1	98.6	98.6	98.6
72.5°	197.2	167.6	138.0	108.5	88.7	72.2	69.0	62.5	55.9	59.1	65.7
75°	131.5	111.7	98.6	78.9	59.1	59.1	39.5	39.5	32.9	39.5	29.6
77.5°	92.0	75.6	59.1	49.2	39.5	36.1	26.2	26.2	23.0	23.0	23.0
80°	65.7	55.9	42.7	36.1	26.2	26.2	23.0	19.7	16.4	16.4	19.7
82.5°	39.5	29.6	29.6	26.2	16.4	13.1	9.9	13.1	6.6	6.6	6.6
85°	23.0	19.7	16.4	9.9	6.6	6.6	3.2	0.0	3.2	3.2	0.0
87.5°	13.1	6.6	6.6	3.2	0.0	3.2	3.2	0.0	0.0	0.0	6.6
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: P248790

CATALOG NUMBER: LD8B120D010 ER8B120840 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	6730.4	6730.4	6730.4	6730.4	6730.4	6730.4	6730.4	6730.4	6730.4	6730.4	6730.4
2.5°	6769.9	6766.5	6773.2	6773.2	6792.9	6789.5	6799.4	6799.4	6792.9	6796.2	6809.3
5°	6792.9	6802.8	6822.4	6838.9	6868.4	6881.6	6898.0	6914.5	6917.8	6927.6	6937.5
7.5°	6792.9	6825.8	6848.8	6878.3	6917.8	6940.8	6976.9	7006.5	7019.6	7036.0	7055.7
10°	6779.7	6812.5	6855.3	6888.1	6937.5	6973.6	7009.7	7055.7	7075.5	7101.7	7128.1
12.5°	6753.4	6789.5	6835.5	6878.3	6934.1	6967.0	7013.0	7055.7	7085.4	7121.5	7151.1
15°	6714.1	6756.7	6799.4	6842.1	6901.3	6940.8	6983.5	7032.7	7062.4	7101.7	7128.1
17.5°	6651.6	6697.5	6737.0	6776.4	6832.3	6878.3	6917.8	6963.8	6993.4	7026.3	7062.4
20°	6575.9	6618.7	6661.4	6694.3	6750.2	6789.5	6832.3	6875.0	6898.0	6904.6	6960.5
22.5°	6480.7	6510.2	6543.1	6595.7	6628.6	6664.7	6704.2	6743.5	6766.5	6802.8	6822.4
25°	6322.9	6352.5	6388.6	6411.6	6451.1	6480.7	6520.1	6562.8	6575.9	6602.3	6621.9
27.5°	6102.8	6119.1	6135.6	6155.3	6178.3	6194.8	6217.8	6237.5	6250.6	6263.7	6276.9
30°	5754.3	5754.3	5754.3	5741.2	5751.1	5760.9	5764.2	5760.9	5760.9	5757.7	5757.7
32.5°	5294.3	5268.0	5238.4	5212.2	5202.3	5189.2	5182.5	5172.7	5156.3	5146.4	5149.7
35°	4673.1	4614.0	4577.9	4545.0	4518.8	4499.0	4489.2	4479.3	4476.0	4462.9	4449.7
37.5°	3897.6	3854.9	3828.6	3808.9	3785.9	3766.1	3769.4	3772.8	3782.5	3776.0	3779.3
40°	3076.0	3066.1	3076.0	3053.0	3046.4	3053.0	3069.4	3092.5	3105.6	3118.7	3141.7
42.5°	2339.9	2356.2	2379.4	2379.4	2389.1	2402.4	2422.0	2458.2	2477.8	2500.8	2527.2
45°	1761.5	1781.2	1810.8	1820.6	1827.2	1843.6	1866.7	1896.2	1909.3	1929.1	1952.1
47.5°	1357.3	1370.4	1386.8	1403.3	1419.6	1426.3	1449.3	1449.3	1465.8	1478.9	1485.4
50°	1058.2	1071.3	1084.4	1094.3	1101.0	1110.8	1117.3	1127.2	1130.4	1137.1	1140.3
52.5°	828.1	844.6	844.6	851.1	861.0	870.9	867.6	870.9	874.1	874.1	884.0
55°	647.4	647.4	657.3	657.3	663.9	660.5	663.9	663.9	663.9	663.9	667.1
57.5°	483.0	486.4	496.3	489.7	486.4	492.9	486.4	492.9	489.7	496.3	486.4
60°	371.3	371.3	374.7	374.7	377.9	377.9	377.9	374.7	374.7	371.3	371.3
62.5°	279.3	282.6	286.0	282.6	282.6	282.6	279.3	279.3	276.1	272.7	272.7
65°	187.3	184.1	190.6	184.1	187.3	187.3	184.1	187.3	177.5	180.7	177.5
67.5°	134.7	131.5	128.2	131.5	128.2	124.9	124.9	128.2	131.5	121.6	121.6
70°	88.7	92.0	88.7	92.0	95.4	95.4	92.0	88.7	92.0	85.5	88.7
72.5°	55.9	55.9	55.9	55.9	55.9	59.1	59.1	59.1	52.6	52.6	49.2
75°	26.2	36.1	29.6	26.2	36.1	36.1	32.9	32.9	29.6	29.6	29.6
77.5°	26.2	19.7	19.7	19.7	19.7	19.7	19.7	19.7	16.4	19.7	16.4
80°	13.1	13.1	13.1	9.9	13.1	13.1	16.4	13.1	13.1	9.9	16.4
82.5°	6.6	6.6	6.6	0.0	3.2	6.6	6.6	3.2	6.6	6.6	3.2
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: P248790

CATALOG NUMBER: LD8B120D010 ER8B120840 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	6730.4	6730.4	6730.4	6730.4	6730.4	6730.4	6730.4	6730.4	6730.4	6730.4	6730.4
2.5°	6806.0	6802.8	6806.0	6809.3	6806.0	6802.8	6806.0	6809.3	6796.2	6792.9	6799.4
5°	6950.6	6950.6	6957.1	6960.5	6957.1	6950.6	6950.6	6937.5	6927.6	6917.8	6914.5
7.5°	7075.5	7082.1	7088.6	7091.9	7088.6	7082.1	7075.5	7055.7	7036.0	7019.6	7006.5
10°	7151.1	7161.0	7174.1	7180.6	7174.1	7161.0	7151.1	7128.1	7101.7	7075.5	7055.7
12.5°	7184.0	7193.8	7210.2	7207.0	7210.2	7193.8	7184.0	7151.1	7121.5	7085.4	7055.7
15°	7161.0	7174.1	7190.5	7197.1	7190.5	7174.1	7161.0	7128.1	7101.7	7062.4	7032.7
17.5°	7088.6	7108.4	7118.2	7128.1	7118.2	7108.4	7088.6	7062.4	7026.3	6993.4	6963.8
20°	6990.0	7003.3	7016.4	7019.6	7016.4	7003.3	6990.0	6960.5	6904.6	6898.0	6875.0
22.5°	6848.8	6858.7	6888.1	6878.3	6888.1	6858.7	6848.8	6822.4	6802.8	6766.5	6743.5
25°	6644.9	6654.8	6658.2	6661.4	6658.2	6654.8	6644.9	6621.9	6602.3	6575.9	6562.8
27.5°	6293.4	6293.4	6299.9	6303.2	6299.9	6293.4	6293.4	6276.9	6263.7	6250.6	6237.5
30°	5760.9	5760.9	5760.9	5777.5	5760.9	5760.9	5760.9	5757.7	5757.7	5760.9	5760.9
32.5°	5146.4	5139.8	5133.3	5139.8	5133.3	5139.8	5146.4	5149.7	5146.4	5156.3	5172.7
35°	4449.7	4446.4	4456.3	4443.2	4456.3	4446.4	4449.7	4449.7	4462.9	4476.0	4479.3
37.5°	3782.5	3776.0	3789.1	3776.0	3789.1	3776.0	3782.5	3779.3	3776.0	3782.5	3772.8
40°	3148.4	3154.9	3154.9	3181.2	3154.9	3154.9	3148.4	3141.7	3118.7	3105.6	3092.5
42.5°	2540.3	2560.1	2553.5	2573.2	2553.5	2560.1	2540.3	2527.2	2500.8	2477.8	2458.2
45°	1965.2	1978.4	1978.4	1984.9	1978.4	1978.4	1965.2	1952.1	1929.1	1909.3	1896.2
47.5°	1508.4	1508.4	1508.4	1511.8	1508.4	1508.4	1508.4	1485.4	1478.9	1465.8	1449.3
50°	1146.9	1150.2	1153.6	1156.8	1153.6	1150.2	1146.9	1140.3	1137.1	1130.4	1127.2
52.5°	880.7	884.0	877.5	884.0	877.5	884.0	880.7	884.0	874.1	874.1	870.9
55°	667.1	663.9	667.1	670.4	667.1	663.9	667.1	667.1	663.9	663.9	663.9
57.5°	489.7	483.0	483.0	483.0	483.0	483.0	489.7	486.4	496.3	489.7	492.9
60°	364.8	368.1	368.1	371.3	368.1	368.1	364.8	371.3	371.3	374.7	374.7
62.5°	269.5	279.3	272.7	279.3	272.7	279.3	269.5	272.7	272.7	276.1	279.3
65°	174.2	174.2	174.2	177.5	174.2	174.2	174.2	177.5	180.7	177.5	187.3
67.5°	118.4	121.6	128.2	124.9	128.2	121.6	118.4	121.6	121.6	131.5	128.2
70°	95.4	85.5	85.5	95.4	85.5	85.5	95.4	88.7	85.5	92.0	88.7
72.5°	55.9	49.2	55.9	55.9	55.9	49.2	55.9	49.2	52.6	52.6	59.1
75°	29.6	26.2	23.0	32.9	23.0	26.2	29.6	29.6	29.6	29.6	32.9
77.5°	19.7	16.4	23.0	23.0	23.0	16.4	19.7	16.4	19.7	16.4	19.7
80°	9.9	13.1	9.9	16.4	9.9	13.1	9.9	16.4	9.9	13.1	13.1
82.5°	3.2	6.6	6.6	6.6	6.6	6.6	3.2	3.2	6.6	6.6	3.2
85°	0.0	6.6	3.2	3.2	3.2	6.6	0.0	0.0	0.0	0.0	0.0
87.5°	3.2	0.0	0.0	3.2	0.0	0.0	3.2	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: P248790

CATALOG NUMBER: LD8B120D010 ER8B120840 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	6730.4	6730.4	6730.4	6730.4	6730.4	6730.4	6730.4	6730.4	6730.4	6730.4	6730.4
2.5°	6799.4	6789.5	6792.9	6773.2	6773.2	6766.5	6769.9	6753.4	6746.9	6740.3	6750.2
5°	6898.0	6881.6	6868.4	6838.9	6822.4	6802.8	6792.9	6766.5	6743.5	6723.8	6720.5
7.5°	6976.9	6940.8	6917.8	6878.3	6848.8	6825.8	6792.9	6756.7	6727.2	6700.8	6681.2
10°	7009.7	6973.6	6937.5	6888.1	6855.3	6812.5	6779.7	6733.7	6694.3	6658.2	6635.1
12.5°	7013.0	6967.0	6934.1	6878.3	6835.5	6789.5	6753.4	6700.8	6654.8	6618.7	6582.6
15°	6983.5	6940.8	6901.3	6842.1	6799.4	6756.7	6714.1	6658.2	6615.4	6572.7	6546.5
17.5°	6917.8	6878.3	6832.3	6776.4	6737.0	6697.5	6651.6	6605.6	6556.2	6510.2	6477.3
20°	6832.3	6789.5	6750.2	6694.3	6661.4	6618.7	6575.9	6526.7	6487.2	6441.2	6405.1
22.5°	6704.2	6664.7	6628.6	6595.7	6543.1	6510.2	6480.7	6424.8	6385.3	6342.6	6303.2
25°	6520.1	6480.7	6451.1	6411.6	6388.6	6352.5	6322.9	6273.6	6237.5	6198.0	6165.1
27.5°	6217.8	6194.8	6178.3	6155.3	6135.6	6119.1	6102.8	6063.3	6037.0	6000.9	5968.0
30°	5764.2	5760.9	5751.1	5741.2	5754.3	5754.3	5754.3	5747.8	5724.8	5698.5	5675.5
32.5°	5182.5	5189.2	5202.3	5212.2	5238.4	5268.0	5294.3	5307.4	5307.4	5291.0	5281.2
35°	4489.2	4499.0	4518.8	4545.0	4577.9	4614.0	4673.1	4686.4	4696.1	4696.1	4683.0
37.5°	3769.4	3766.1	3785.9	3808.9	3828.6	3854.9	3897.6	3907.5	3923.9	3917.4	3904.1
40°	3069.4	3053.0	3046.4	3053.0	3076.0	3066.1	3076.0	3069.4	3069.4	3046.4	3046.4
42.5°	2422.0	2402.4	2389.1	2379.4	2379.4	2356.2	2339.9	2323.5	2313.6	2297.1	2293.9
45°	1866.7	1843.6	1827.2	1820.6	1810.8	1781.2	1761.5	1741.7	1718.7	1712.2	1715.5
47.5°	1449.3	1426.3	1419.6	1403.3	1386.8	1370.4	1357.3	1334.3	1330.9	1317.8	1330.9
50°	1117.3	1110.8	1101.0	1094.3	1084.4	1071.3	1058.2	1045.1	1038.5	1038.5	1041.7
52.5°	867.6	870.9	861.0	851.1	844.6	844.6	828.1	824.9	824.9	811.7	824.9
55°	663.9	660.5	663.9	657.3	657.3	647.4	647.4	637.5	637.5	627.6	634.3
57.5°	486.4	492.9	486.4	489.7	496.3	486.4	483.0	473.2	479.8	473.2	476.6
60°	377.9	377.9	377.9	374.7	374.7	371.3	371.3	368.1	368.1	361.4	368.1
62.5°	279.3	282.6	282.6	282.6	286.0	282.6	279.3	282.6	279.3	279.3	282.6
65°	184.1	187.3	187.3	184.1	190.6	184.1	187.3	190.6	193.8	190.6	193.8
67.5°	124.9	124.9	128.2	131.5	128.2	131.5	134.7	131.5	134.7	141.4	134.7
70°	92.0	95.4	95.4	92.0	88.7	92.0	88.7	98.6	98.6	98.6	105.1
72.5°	59.1	59.1	55.9	55.9	55.9	55.9	55.9	65.7	59.1	55.9	62.5
75°	32.9	36.1	36.1	26.2	29.6	36.1	26.2	29.6	39.5	32.9	39.5
77.5°	19.7	19.7	19.7	19.7	19.7	19.7	26.2	23.0	23.0	23.0	26.2
80°	16.4	13.1	13.1	9.9	13.1	13.1	13.1	19.7	16.4	16.4	19.7
82.5°	6.6	6.6	3.2	0.0	6.6	6.6	6.6	6.6	6.6	6.6	13.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	3.2	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	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: P248790

CATALOG NUMBER: LD8B120D010 ER8B120840 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	6730.4	6730.4	6730.4	6730.4	6730.4	6730.4	6730.4	6730.4	6730.4	6730.4	6730.4
2.5°	6723.8	6723.8	6720.5	6714.1	6700.8	6700.8	6697.5	6687.7	6681.2	6677.8	6677.8
5°	6690.9	6677.8	6664.7	6628.6	6628.6	6621.9	6602.3	6589.1	6582.6	6566.1	6559.6
7.5°	6661.4	6621.9	6598.9	6575.9	6546.5	6533.2	6510.2	6500.3	6477.3	6461.0	6451.1
10°	6589.1	6562.8	6533.2	6497.1	6474.1	6447.8	6421.5	6401.9	6372.2	6355.7	6342.6
12.5°	6539.8	6500.3	6474.1	6434.6	6395.2	6372.2	6336.1	6313.1	6283.5	6250.6	6230.9
15°	6493.8	6451.1	6415.0	6372.2	6329.5	6303.2	6260.5	6234.3	6191.5	6158.6	6135.6
17.5°	6424.8	6388.6	6349.2	6296.6	6257.2	6224.4	6178.3	6145.5	6106.0	6063.3	6040.3
20°	6352.5	6309.7	6270.4	6217.8	6178.3	6138.9	6092.9	6056.8	6010.7	5971.3	5945.0
22.5°	6257.2	6207.9	6175.0	6122.4	6076.4	6033.8	5991.0	5948.3	5905.6	5872.7	5843.1
25°	6119.1	6066.5	6030.4	5987.7	5945.0	5912.2	5859.6	5833.3	5790.6	5760.9	5731.3
27.5°	5921.9	5882.6	5849.7	5806.9	5770.8	5744.6	5705.1	5678.8	5642.6	5616.3	5593.4
30°	5632.8	5600.0	5570.4	5527.6	5501.4	5478.4	5442.1	5419.1	5392.9	5363.3	5356.8
32.5°	5245.0	5218.7	5189.2	5159.5	5139.8	5126.7	5097.1	5083.9	5057.7	5041.2	5024.8
35°	4660.0	4637.0	4620.6	4607.5	4600.9	4604.1	4597.6	4610.8	4617.3	4614.0	4617.3
37.5°	3894.4	3881.1	3887.8	3897.6	3930.5	3973.2	4012.6	4071.7	4111.2	4150.7	4186.8
40°	3039.9	3049.8	3076.0	3135.1	3220.6	3316.0	3404.7	3516.4	3628.2	3707.0	3779.3
42.5°	2293.9	2323.5	2389.1	2474.6	2602.8	2744.1	2882.2	3046.4	3181.2	3312.6	3404.7
45°	1725.3	1764.7	1850.2	1968.6	2109.8	2274.1	2448.4	2632.3	2793.4	2928.2	3030.0
47.5°	1344.2	1380.3	1465.8	1590.6	1764.7	1935.7	2116.4	2307.0	2474.6	2606.1	2694.8
50°	1061.5	1107.4	1183.1	1314.5	1488.8	1669.5	1856.8	2044.0	2201.9	2313.6	2392.5
52.5°	834.7	877.5	949.7	1087.8	1265.3	1446.0	1620.1	1804.2	1942.2	2050.7	2103.3
55°	647.4	686.9	762.4	877.5	1045.1	1222.6	1396.6	1554.5	1682.6	1761.5	1810.8
57.5°	492.9	522.5	575.2	690.1	841.4	1005.6	1153.6	1311.3	1409.9	1465.8	1498.5
60°	374.7	397.7	453.6	542.3	680.3	821.6	946.5	1064.8	1143.7	1189.7	1222.6
62.5°	282.6	309.0	348.3	423.9	529.0	644.1	749.3	838.0	903.7	933.4	956.3
65°	193.8	213.6	243.2	302.3	391.1	473.2	555.4	621.2	663.9	696.8	709.9
67.5°	144.6	157.7	174.2	220.2	282.6	348.3	404.2	450.2	496.3	509.4	532.4
70°	108.5	118.4	134.7	167.6	203.7	249.7	295.8	322.1	354.9	377.9	384.6
72.5°	69.0	72.2	88.7	108.5	138.0	167.6	197.2	220.2	240.0	253.1	259.6
75°	39.5	59.1	59.1	78.9	98.6	111.7	131.5	147.8	157.7	167.6	167.6
77.5°	26.2	36.1	39.5	49.2	59.1	75.6	92.0	101.9	111.7	115.0	115.0
80°	23.0	26.2	26.2	36.1	42.7	55.9	65.7	69.0	75.6	78.9	85.5
82.5°	9.9	13.1	16.4	26.2	29.6	29.6	39.5	42.7	49.2	52.6	52.6
85°	3.2	6.6	6.6	9.9	16.4	19.7	23.0	26.2	29.6	29.6	32.9
87.5°	3.2	3.2	0.0	3.2	6.6	6.6	13.1	13.1	13.1	19.7	19.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P248790

CATALOG NUMBER: LD8B120D010 ER8B120840 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	6730.4	6730.4	6730.4	6730.4	6730.4	6730.4	6730.4
2.5°	6671.3	6674.6	6661.4	6658.2	6651.6	6654.8	6661.4
5°	6549.7	6552.9	6539.8	6526.7	6526.7	6523.3	6526.7
7.5°	6434.6	6438.0	6418.2	6411.6	6398.5	6401.9	6401.9
10°	6319.6	6319.6	6290.1	6286.7	6276.9	6273.6	6273.6
12.5°	6207.9	6198.0	6175.0	6161.9	6168.5	6148.8	6148.8
15°	6109.3	6092.9	6063.3	6053.4	6037.0	6030.4	6030.4
17.5°	6007.4	5994.3	5968.0	5948.3	5928.5	5925.3	5928.5
20°	5908.8	5895.7	5862.8	5849.7	5833.3	5833.3	5826.7
22.5°	5810.2	5797.1	5767.6	5757.7	5734.7	5734.7	5738.0
25°	5708.3	5698.5	5665.6	5659.1	5655.8	5642.6	5649.2
27.5°	5570.4	5563.7	5537.5	5527.6	5514.5	5511.2	5517.7
30°	5317.3	5307.4	5287.8	5277.9	5254.9	5258.2	5264.6
32.5°	5001.8	4988.7	4962.3	4952.4	4932.8	4926.2	4929.5
35°	4607.5	4597.6	4574.6	4574.6	4554.9	4548.3	4554.9
37.5°	4206.6	4216.3	4206.6	4216.3	4206.6	4203.2	4206.6
40°	3828.6	3864.8	3871.2	3907.5	3894.4	3914.0	3910.7
42.5°	3467.1	3526.2	3549.3	3578.8	3572.3	3585.4	3595.3
45°	3102.2	3151.6	3174.6	3194.4	3197.6	3204.2	3207.5
47.5°	2757.2	2796.7	2799.9	2822.9	2819.7	2819.7	2829.5
50°	2435.2	2461.5	2468.0	2484.5	2471.4	2464.7	2468.0
52.5°	2136.2	2162.4	2155.8	2162.4	2146.0	2139.4	2142.7
55°	1830.5	1843.6	1843.6	1843.6	1824.0	1824.0	1824.0
57.5°	1518.3	1521.6	1515.0	1518.3	1515.0	1495.3	1492.0
60°	1232.4	1232.4	1229.0	1232.4	1222.6	1212.7	1212.7
62.5°	962.8	969.5	982.6	969.5	962.8	969.5	959.6
65°	719.8	732.9	729.5	736.1	732.9	732.9	726.3
67.5°	542.3	545.5	548.8	552.2	552.2	552.2	552.2
70°	397.7	407.6	404.2	404.2	404.2	404.2	423.9
72.5°	266.2	279.3	276.1	282.6	282.6	289.2	282.6
75°	180.7	193.8	187.3	197.2	193.8	187.3	203.7
77.5°	121.6	128.2	131.5	134.7	131.5	128.2	131.5
80°	85.5	92.0	88.7	92.0	92.0	92.0	95.4
82.5°	52.6	62.5	59.1	62.5	59.1	62.5	62.5
85°	36.1	39.5	32.9	39.5	36.1	36.1	42.7
87.5°	23.0	19.7	19.7	23.0	19.7	23.0	19.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)