

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: P249180

Luminaire Tested: **LD8B200D010 ER8B2009727 8LBDW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249180
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13957)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B2009727 8LBDW0H
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15258.0 lumens
Efficiency: N/A
Efficacy: 68.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

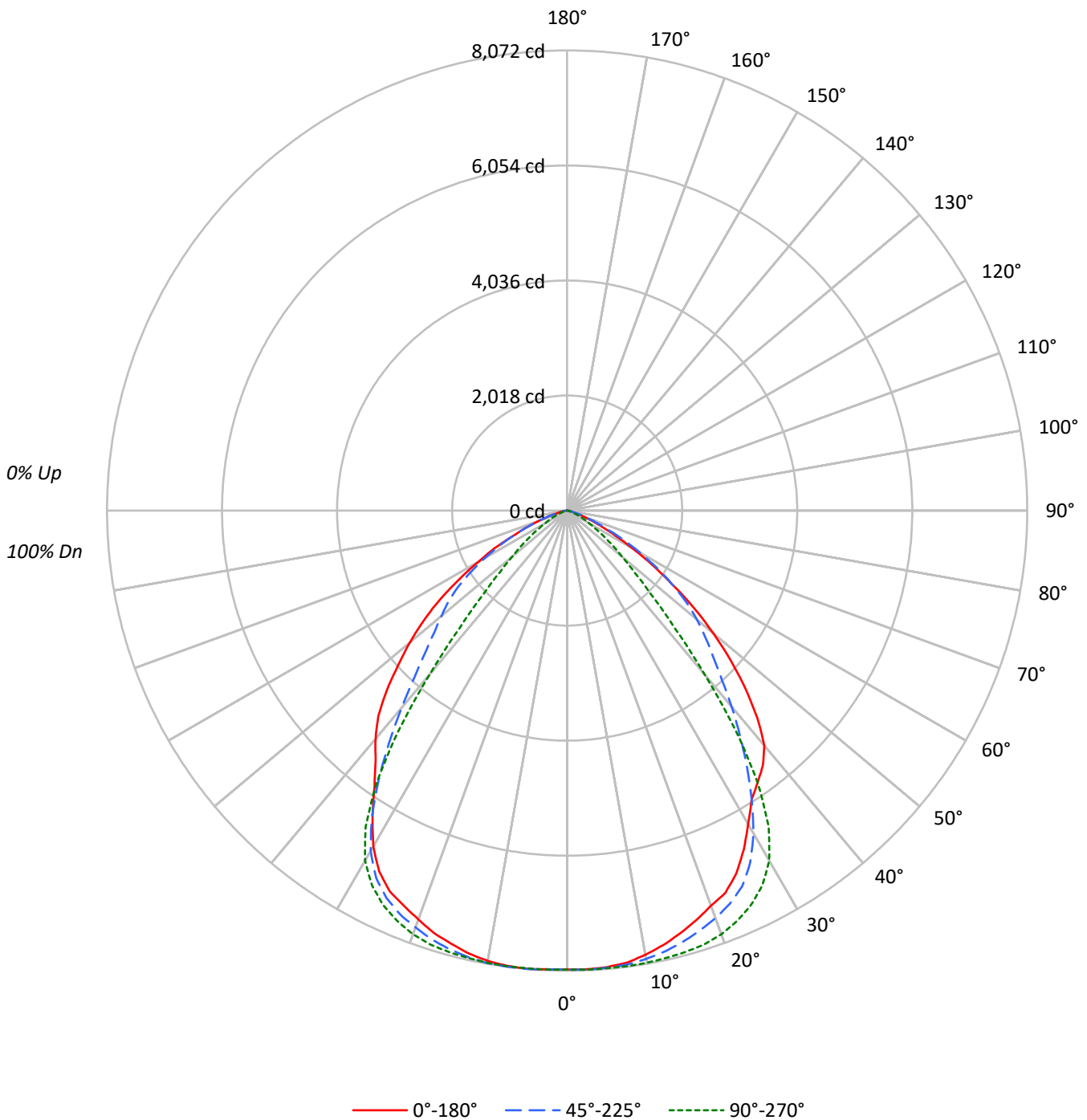
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P249180

CATALOG NUMBER: LD8B200D010 ER8B2009727 8LBDW0H

Luminous Intensity Polar Plot





TEST NUMBER: P249180

CATALOG NUMBER: LD8B200D010 ER8B2009727 8LBDW0H

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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
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°			



TEST NUMBER: P249180

CATALOG NUMBER: LD8B200D010 ER8B2009727 8LBDW0H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	768.3	5.0
10°-20°	2231.2	14.6
20°-30°	3386.6	22.2
30°-40°	3557.0	23.3
40°-50°	2666.8	17.5
50°-60°	1711.1	11.2
60°-70°	732.0	4.8
70°-80°	172.9	1.1
80°-90°	32.2	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°	6386.2	41.9
0°-40°	9943.1	65.2
0°-60°	14320.9	93.9
0°-90°	15258.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15258.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8050	8050	8050	8050	8050	
5°	8037	8050	8059	8072	8068	763
15°	7674	7834	8016	7964	7865	2165
25°	7022	7268	7636	7497	7368	3208
35°	5825	5501	5829	5760	5890	3656
45°	4425	3617	2078	3513	4485	3389
55°	2238	2238	774	2333	2727	2030
65°	674	795	246	1024	1041	720
75°	104	121	35	207	203	151
85°	35	22	17	35	48	36
90°	0	0	0	0	0	



TEST NUMBER: P249180

CATALOG NUMBER: LD8B200D010 ER8B2009727 8LBDW0H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	8050.4	8050.4	8050.4	8050.4	8050.4	8050.4	8050.4	8050.4	8050.4	8050.4	8050.4
2.5°	8054.8	8063.4	8059.1	8059.1	8054.8	8059.1	8059.1	8067.8	8067.8	8059.1	8054.8
5°	8037.4	8046.1	8046.1	8037.4	8037.4	8059.1	8046.1	8054.8	8054.8	8050.4	8050.4
7.5°	7998.6	7998.6	8015.8	8002.9	8002.9	8015.8	8011.5	8020.2	8028.8	8033.2	8033.2
10°	7912.1	7920.8	7925.1	7925.1	7929.5	7942.4	7951.0	7968.4	7976.9	7985.6	7989.9
12.5°	7804.2	7817.1	7821.4	7817.1	7830.1	7847.3	7869.0	7890.6	7903.6	7920.8	7933.8
15°	7674.4	7674.4	7683.1	7696.1	7704.8	7730.7	7752.3	7778.2	7812.7	7834.4	7856.0
17.5°	7531.9	7540.6	7553.5	7553.5	7570.8	7614.0	7627.0	7665.9	7704.8	7726.3	7769.6
20°	7376.4	7384.9	7397.9	7406.6	7428.2	7462.8	7488.7	7523.2	7566.5	7605.4	7648.5
22.5°	7255.3	7238.1	7246.6	7255.3	7277.0	7307.2	7337.5	7380.6	7423.8	7462.8	7506.0
25°	7022.0	7026.3	7039.3	7047.9	7073.9	7099.8	7134.3	7186.2	7225.1	7268.3	7315.8
27.5°	6706.6	6710.9	6732.5	6732.5	6754.0	6797.3	6818.8	6862.1	6914.0	6957.1	7013.4
30°	6347.9	6356.5	6356.5	6373.8	6386.7	6408.4	6430.0	6473.2	6499.1	6538.0	6615.8
32.5°	6019.5	6028.1	6023.7	6019.5	6006.5	6002.2	5997.8	6006.5	6015.2	6028.1	6058.3
35°	5825.1	5803.4	5786.1	5755.9	5721.3	5678.1	5639.2	5587.4	5539.8	5500.9	5457.7
37.5°	5639.2	5634.8	5608.9	5565.7	5496.5	5418.8	5328.1	5215.7	5103.3	4982.4	4865.7
40°	5379.9	5366.9	5345.3	5284.9	5207.0	5112.0	4991.0	4852.7	4671.2	4485.4	4295.3
42.5°	4939.1	4943.5	4917.5	4870.0	4796.6	4705.8	4580.5	4429.3	4234.8	4014.4	3768.1
45°	4424.9	4424.9	4416.3	4377.4	4325.5	4252.1	4157.0	4031.7	3841.6	3616.8	3353.2
47.5°	3889.1	3893.4	3880.4	3871.8	3850.2	3802.7	3733.5	3638.5	3504.5	3288.4	3024.8
50°	3344.7	3344.7	3366.2	3361.9	3361.9	3344.7	3314.4	3258.2	3141.5	2968.7	2722.4
52.5°	2800.1	2808.8	2821.8	2839.0	2860.6	2895.2	2860.6	2834.7	2761.2	2627.3	2415.6
55°	2238.4	2247.0	2268.6	2298.9	2324.9	2359.4	2368.0	2368.0	2329.1	2238.4	2078.5
57.5°	1758.8	1745.8	1763.1	1789.0	1823.6	1858.2	1884.1	1914.3	1910.0	1849.5	1719.9
60°	1322.3	1326.6	1339.5	1365.5	1391.4	1421.7	1456.3	1482.2	1495.2	1464.9	1382.8
62.5°	963.7	963.7	980.9	1006.8	1019.8	1063.0	1084.6	1097.6	1110.5	1106.2	1054.4
65°	674.2	682.7	691.4	704.4	717.3	743.2	756.2	782.1	790.8	795.1	756.2
67.5°	475.4	462.4	471.0	479.6	492.6	509.9	535.9	535.9	548.8	548.8	522.9
70°	302.5	302.5	306.8	319.7	328.4	332.7	341.4	350.0	363.0	358.6	358.6
72.5°	203.1	198.8	203.1	207.4	211.8	224.7	224.7	229.0	237.7	242.0	224.7
75°	103.7	108.1	116.6	112.4	125.3	116.6	121.0	134.0	129.6	121.0	121.0
77.5°	86.4	86.4	86.4	82.2	90.7	90.7	86.4	95.1	90.7	90.7	86.4
80°	60.5	64.8	60.5	56.1	60.5	56.1	56.1	56.1	56.1	56.1	51.8
82.5°	47.6	38.9	43.2	38.9	43.2	43.2	38.9	34.6	34.6	38.9	34.6
85°	34.6	25.9	30.2	30.2	25.9	25.9	25.9	25.9	25.9	21.6	21.6
87.5°	21.6	13.0	13.0	13.0	17.2	17.2	17.2	13.0	17.2	17.2	8.7
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: P249180

CATALOG NUMBER: LD8B200D010 ER8B2009727 8LBDW0H

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	8050.4	8050.4	8050.4	8050.4	8050.4	8050.4	8050.4	8050.4	8050.4	8050.4	8050.4
2.5°	8063.4	8059.1	8067.8	8063.4	8063.4	8059.1	8063.4	8059.1	8067.8	8050.4	8054.8
5°	8063.4	8054.8	8059.1	8063.4	8067.8	8059.1	8059.1	8059.1	8067.8	8059.1	8063.4
7.5°	8046.1	8041.8	8054.8	8063.4	8059.1	8054.8	8063.4	8059.1	8067.8	8063.4	8072.0
10°	8011.5	8015.8	8024.5	8037.4	8041.8	8046.1	8054.8	8054.8	8067.8	8050.4	8059.1
12.5°	7959.7	7976.9	7998.6	8007.2	8024.5	8024.5	8033.2	8037.4	8046.1	8041.8	8054.8
15°	7894.9	7916.5	7942.4	7964.0	7985.6	7998.6	8011.5	8015.8	8028.8	8015.8	8020.2
17.5°	7817.1	7843.0	7881.9	7907.8	7942.4	7955.4	7972.6	7981.3	7994.3	7985.6	7989.9
20°	7709.0	7739.4	7782.5	7821.4	7843.0	7873.2	7894.9	7907.8	7916.5	7907.8	7912.1
22.5°	7557.8	7601.1	7657.2	7687.4	7730.7	7756.6	7760.9	7791.2	7812.7	7791.2	7799.8
25°	7380.6	7423.8	7467.1	7531.9	7570.8	7601.1	7631.3	7635.6	7657.2	7652.9	7648.5
27.5°	7086.8	7143.0	7216.4	7268.3	7320.1	7367.7	7402.3	7410.8	7432.5	7423.8	7428.2
30°	6684.9	6745.5	6814.6	6896.7	6970.1	7017.6	7060.9	7091.1	7112.7	7099.8	7095.4
32.5°	6114.6	6175.0	6248.5	6330.6	6417.1	6486.1	6538.0	6576.9	6602.8	6594.2	6572.6
35°	5462.1	5479.3	5526.9	5591.7	5665.1	5738.6	5786.1	5829.3	5859.5	5868.2	5868.2
37.5°	4792.3	4736.1	4701.5	4701.5	4744.7	4774.9	4818.2	4844.1	4891.6	4908.9	4921.9
40°	4144.0	4014.4	3893.4	3802.7	3742.2	3737.9	3737.9	3750.8	3794.0	3850.2	3902.1
42.5°	3565.0	3357.6	3171.8	3003.2	2882.3	2813.1	2782.9	2787.2	2821.8	2873.6	2960.0
45°	3102.6	2843.4	2610.0	2406.9	2242.7	2134.6	2082.8	2078.5	2104.4	2164.9	2260.0
47.5°	2744.0	2467.4	2203.8	1970.4	1793.3	1676.6	1616.1	1598.9	1616.1	1672.3	1784.7
50°	2445.8	2160.7	1888.4	1646.4	1456.3	1335.3	1279.1	1257.5	1279.1	1326.6	1438.9
52.5°	2169.2	1875.4	1620.5	1387.1	1184.0	1080.3	1019.8	1006.8	1019.8	1075.9	1166.8
55°	1849.5	1598.9	1348.2	1114.9	937.7	834.0	786.4	773.5	786.4	838.4	933.4
57.5°	1534.1	1318.0	1097.6	885.8	734.6	643.8	600.7	583.3	613.6	648.1	760.5
60°	1240.1	1067.4	881.5	695.7	570.4	488.3	453.7	449.4	458.0	501.3	579.0
62.5°	972.3	829.7	682.7	531.5	427.8	393.2	350.0	345.7	354.3	380.2	440.8
65°	700.1	609.3	496.9	388.9	306.8	259.3	242.0	246.4	254.9	272.3	328.4
67.5°	488.3	423.5	345.7	272.3	211.8	190.1	172.9	168.5	172.9	203.1	233.4
70°	328.4	289.5	233.4	207.4	147.0	116.6	121.0	108.1	125.3	125.3	151.2
72.5°	216.0	190.1	155.5	121.0	103.7	82.2	82.2	77.8	86.4	90.7	112.4
75°	112.4	86.4	86.4	60.5	43.2	21.6	38.9	34.6	30.2	34.6	43.2
77.5°	77.8	64.8	60.5	47.6	43.2	34.6	34.6	34.6	34.6	38.9	43.2
80°	47.6	47.6	34.6	30.2	25.9	21.6	25.9	25.9	25.9	25.9	30.2
82.5°	30.2	25.9	25.9	21.6	21.6	17.2	17.2	17.2	17.2	17.2	25.9
85°	25.9	17.2	17.2	13.0	17.2	30.2	13.0	17.2	17.2	17.2	13.0
87.5°	8.7	13.0	13.0	13.0	8.7	4.3	8.7	13.0	13.0	21.6	17.2
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: P249180

CATALOG NUMBER: LD8B200D010 ER8B2009727 8LBDW0H

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	8050.4	8050.4	8050.4	8050.4	8050.4	8050.4	8050.4	8050.4	8050.4	8050.4	8050.4
2.5°	8063.4	8067.8	8067.8	8063.4	8063.4	8054.8	8072.0	8059.1	8063.4	8080.7	8067.8
5°	8072.0	8076.3	8076.3	8072.0	8072.0	8072.0	8076.3	8076.3	8072.0	8067.8	8076.3
7.5°	8089.3	8085.0	8085.0	8076.3	8076.3	8067.8	8076.3	8063.4	8072.0	8063.4	8076.3
10°	8067.8	8072.0	8067.8	8063.4	8063.4	8059.1	8059.1	8046.1	8050.4	8037.4	8046.1
12.5°	8054.8	8050.4	8050.4	8041.8	8033.2	8024.5	8020.2	8007.2	8007.2	7976.9	7989.9
15°	8020.2	8024.5	8011.5	7994.3	7985.6	7964.0	7955.4	7938.0	7920.8	7899.2	7903.6
17.5°	7989.9	7976.9	7959.7	7942.4	7907.8	7890.6	7873.2	7847.3	7838.6	7812.7	7804.2
20°	7899.2	7890.6	7869.0	7838.6	7817.1	7778.2	7760.9	7735.0	7713.3	7687.4	7674.4
22.5°	7782.5	7773.8	7747.9	7717.7	7683.1	7665.9	7648.5	7601.1	7579.4	7553.5	7549.1
25°	7635.6	7622.6	7596.7	7562.1	7544.8	7497.3	7480.0	7445.4	7436.8	7410.8	7406.6
27.5°	7410.8	7393.6	7363.4	7320.1	7289.9	7259.6	7242.4	7216.4	7207.8	7181.8	7177.6
30°	7073.9	7052.2	6991.7	6974.5	6922.6	6892.3	6892.3	6857.8	6862.1	6844.8	6844.8
32.5°	6542.3	6507.8	6460.2	6425.6	6391.0	6373.8	6373.8	6360.8	6369.5	6369.5	6378.1
35°	5838.0	5790.5	5764.5	5742.9	5742.9	5760.1	5812.0	5825.1	5851.0	5872.5	5889.9
37.5°	4934.8	4930.5	4960.8	4986.7	5051.5	5125.0	5215.7	5293.5	5366.9	5418.8	5470.6
40°	3958.2	4066.3	4152.7	4273.7	4373.0	4515.7	4679.9	4813.8	4939.1	5029.9	5125.0
42.5°	3089.6	3227.9	3409.5	3586.6	3763.8	3958.2	4174.3	4360.1	4524.3	4649.6	4749.0
45°	2406.9	2597.0	2817.5	3042.2	3271.2	3513.2	3737.9	3928.0	4100.9	4230.5	4329.9
47.5°	1940.2	2147.7	2398.2	2644.6	2903.9	3158.8	3409.5	3573.7	3716.2	3819.9	3910.8
50°	1603.1	1823.6	2087.2	2368.0	2627.3	2882.3	3098.3	3258.2	3374.9	3465.6	3521.8
52.5°	1339.5	1572.9	1853.8	2134.6	2393.9	2627.3	2821.8	2942.8	3037.8	3102.6	3154.4
55°	1106.2	1331.0	1594.6	1858.2	2113.1	2333.4	2493.3	2584.1	2657.5	2696.4	2726.6
57.5°	903.2	1110.5	1352.5	1594.6	1814.9	1996.5	2121.7	2212.5	2247.0	2277.3	2272.9
60°	708.7	903.2	1123.5	1331.0	1521.1	1667.9	1758.8	1810.6	1836.5	1849.5	1840.8
62.5°	557.4	734.6	903.2	1084.6	1222.9	1348.2	1434.7	1434.7	1447.6	1451.9	1464.9
65°	414.8	548.8	695.7	829.7	942.0	1024.1	1071.7	1084.6	1101.9	1097.6	1088.9
67.5°	306.8	406.2	514.2	613.6	691.4	743.2	777.8	808.1	803.8	795.1	790.8
70°	211.8	276.6	371.7	432.1	488.3	540.2	548.8	553.1	557.4	561.8	553.1
72.5°	147.0	194.4	246.4	298.2	332.7	354.3	376.0	380.2	380.2	380.2	376.0
75°	73.5	99.4	147.0	168.5	198.8	207.4	224.7	224.7	237.7	220.3	216.0
77.5°	64.8	77.8	103.7	121.0	134.0	147.0	151.2	164.2	159.9	151.2	155.5
80°	38.9	47.6	64.8	73.5	90.7	95.1	99.4	103.7	99.4	103.7	103.7
82.5°	30.2	34.6	43.2	43.2	56.1	56.1	60.5	60.5	64.8	64.8	64.8
85°	17.2	30.2	25.9	51.8	34.6	34.6	43.2	51.8	43.2	43.2	51.8
87.5°	17.2	17.2	13.0	17.2	17.2	17.2	21.6	25.9	25.9	30.2	25.9
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: P249180

CATALOG NUMBER: LD8B200D010 ER8B2009727 8LBDW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	8050.4	8050.4	8050.4	8050.4
2.5°	8063.4	8072.0	8059.1	8054.8
5°	8076.3	8076.3	8067.8	8067.8
7.5°	8076.3	8076.3	8063.4	8054.8
10°	8041.8	8041.8	8028.8	8020.2
12.5°	7976.9	7976.9	7972.6	7959.7
15°	7894.9	7894.9	7877.5	7864.6
17.5°	7782.5	7791.2	7769.6	7769.6
20°	7661.5	7657.2	7640.0	7631.3
22.5°	7536.2	7527.6	7523.2	7497.3
25°	7402.3	7393.6	7380.6	7367.7
27.5°	7173.3	7168.9	7155.9	7138.7
30°	6823.2	6818.8	6801.6	6801.6
32.5°	6369.5	6365.1	6347.9	6352.2
35°	5898.4	5915.8	5907.1	5889.9
37.5°	5505.2	5518.2	5526.9	5518.2
40°	5176.8	5215.7	5220.0	5228.7
42.5°	4826.8	4878.6	4896.0	4904.5
45°	4407.6	4455.2	4494.1	4485.4
47.5°	3979.8	4014.4	4048.9	4023.0
50°	3569.3	3590.9	3603.9	3603.9
52.5°	3180.5	3180.5	3176.1	3180.5
55°	2735.3	2735.3	2718.1	2726.6
57.5°	2268.6	2277.3	2264.3	2242.7
60°	1836.5	1814.9	1806.2	1793.3
62.5°	1430.4	1430.4	1400.1	1438.9
65°	1071.7	1058.7	1045.7	1041.4
67.5°	777.8	773.5	760.5	756.2
70°	548.8	531.5	527.2	518.5
72.5°	367.3	367.3	358.6	358.6
75°	224.7	203.1	198.8	203.1
77.5°	155.5	151.2	151.2	147.0
80°	103.7	99.4	108.1	95.1
82.5°	64.8	69.1	64.8	69.1
85°	43.2	51.8	47.6	47.6
87.5°	25.9	25.9	25.9	25.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)