

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: P249486

Luminaire Tested: **LD8B200D010 ER8B200940 8LBDW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P249486  
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 ER8B200940 8LBDW0B  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
90 CRI 4000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17272.0 lumens  
Efficiency: N/A  
Efficacy: 77.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

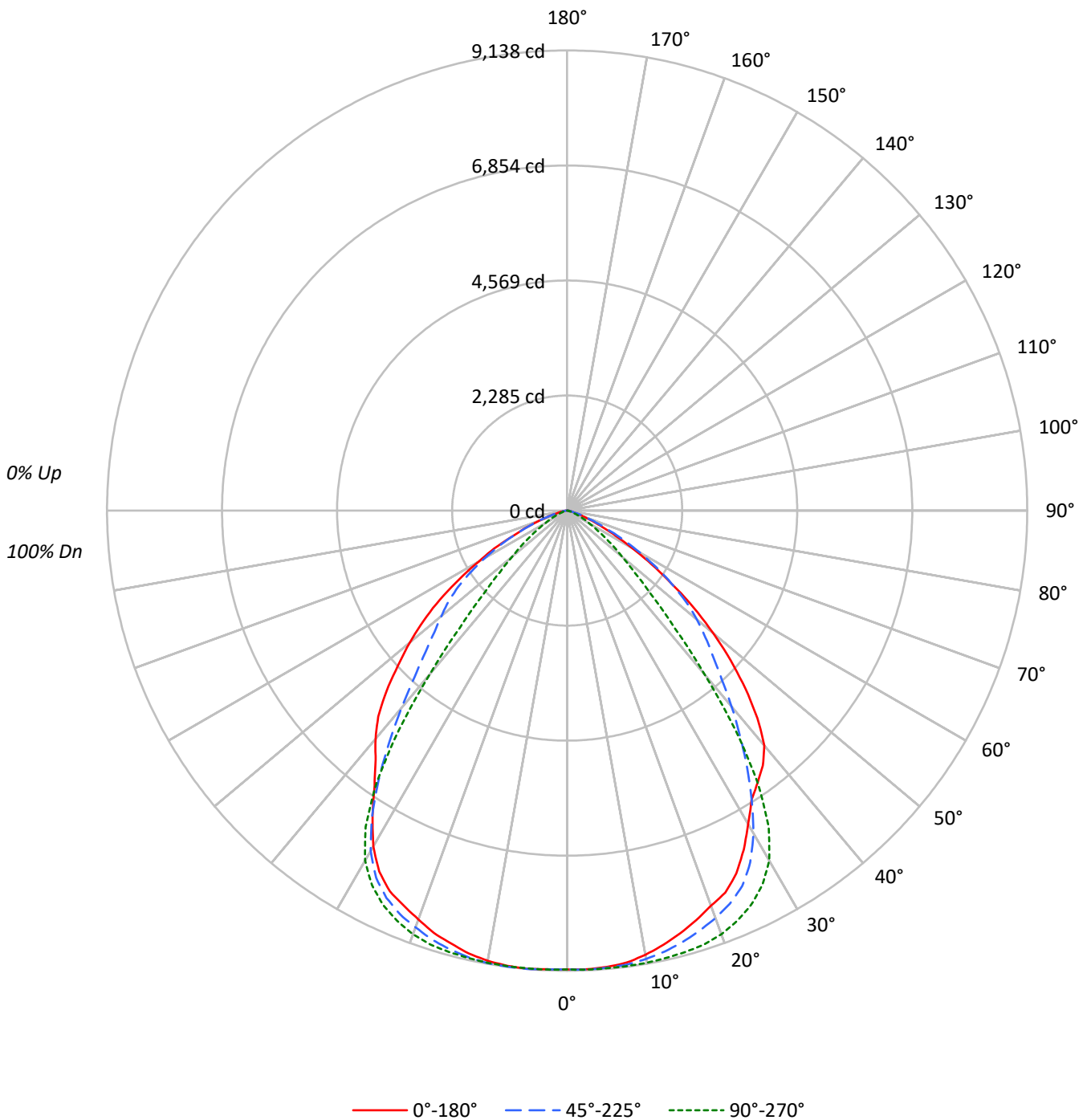
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P249486

CATALOG NUMBER: LD8B200D010 ER8B200940 8LBDW0B

### Luminous Intensity Polar Plot





TEST NUMBER: P249486

CATALOG NUMBER: LD8B200D010 ER8B200940 8LBDW0B

**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°	281011	281011	281011
5°	281630	282391	282695
10°	280446	285503	284276
15°	277337	289676	284214
20°	274008	293750	283478
25°	270451	294087	283768
30°	255863	285819	274150
35°	248222	248403	250985
40°	245147	170914	238259
45°	218438	102608	221425
50°	181630	68289	195710
55°	136221	47074	165940
60°	92312	31373	125202
65°	55680	20350	86011
70°	30871	11026	52924
75°	13987	4658	27391
80°	12164	5203	19108
85°	13834	6899	19070



TEST NUMBER: P249486

CATALOG NUMBER: LD8B200D010 ER8B200940 8LBDW0B

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	869.7	5.0
10°-20°	2525.8	14.6
20°-30°	3833.6	22.2
30°-40°	4026.5	23.3
40°-50°	3018.8	17.5
50°-60°	1936.9	11.2
60°-70°	828.6	4.8
70°-80°	195.8	1.1
80°-90°	36.4	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°	7229.1	41.9
0°-40°	11255.6	65.2
0°-60°	16211.3	93.9
0°-90°	17272.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17272.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	9113	9113	9113	9113	9113	
5°	9098	9113	9123	9138	9133	864
15°	8687	8868	9074	9015	8903	2450
25°	7949	8228	8644	8487	8340	3631
35°	6594	6227	6599	6520	6667	4138
45°	5009	4094	2353	3977	5078	3836
55°	2534	2534	876	2641	3087	2298
65°	763	900	279	1159	1179	815
75°	117	137	39	235	230	171
85°	39	24	20	39	54	41
90°	0	0	0	0	0	



TEST NUMBER: P249486

CATALOG NUMBER: LD8B200D010 ER8B200940 8LBDW0B

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	9113.0	9113.0	9113.0	9113.0	9113.0	9113.0	9113.0	9113.0	9113.0	9113.0	9113.0
2.5°	9118.0	9127.8	9122.9	9122.9	9118.0	9122.9	9122.9	9132.7	9132.7	9122.9	9118.0
5°	9098.3	9108.1	9108.1	9098.3	9098.3	9122.9	9108.1	9118.0	9118.0	9113.0	9113.0
7.5°	9054.4	9054.4	9073.9	9059.3	9059.3	9073.9	9069.0	9078.8	9088.6	9093.5	9093.5
10°	8956.5	8966.3	8971.2	8971.2	8976.1	8990.7	9000.5	9020.2	9029.9	9039.7	9044.6
12.5°	8834.3	8848.9	8853.8	8848.9	8863.6	8883.1	8907.7	8932.1	8946.8	8966.3	8981.0
15°	8687.4	8687.4	8697.2	8712.0	8721.8	8751.1	8775.5	8804.8	8844.0	8868.5	8892.9
17.5°	8526.1	8535.9	8550.5	8550.5	8570.1	8619.0	8633.7	8677.7	8721.8	8746.2	8795.1
20°	8350.0	8359.7	8374.4	8384.3	8408.7	8447.8	8477.1	8516.3	8565.2	8609.3	8658.1
22.5°	8213.0	8193.5	8203.2	8213.0	8237.5	8271.7	8306.0	8354.8	8403.8	8447.8	8496.8
25°	7948.8	7953.7	7968.5	7978.2	8007.6	8036.9	8076.1	8134.7	8178.8	8227.7	8281.4
27.5°	7591.8	7596.7	7621.1	7621.1	7645.5	7694.5	7718.9	7767.9	7826.6	7875.5	7939.1
30°	7185.8	7195.5	7195.5	7215.1	7229.7	7254.3	7278.7	7327.6	7357.0	7401.0	7489.1
32.5°	6814.0	6823.7	6818.8	6814.0	6799.3	6794.4	6789.5	6799.3	6809.1	6823.7	6858.0
35°	6593.9	6569.4	6549.9	6515.7	6476.5	6427.6	6383.5	6324.9	6271.0	6227.0	6178.1
37.5°	6383.5	6378.6	6349.3	6300.3	6222.1	6134.1	6031.4	5904.2	5776.9	5640.0	5508.0
40°	6090.0	6075.3	6050.9	5982.4	5894.4	5786.8	5649.8	5493.3	5287.8	5077.5	4862.3
42.5°	5591.1	5596.0	5566.6	5512.8	5429.7	5326.9	5185.1	5013.9	4793.8	4544.3	4265.5
45°	5009.0	5009.0	4999.2	4955.2	4896.5	4813.3	4705.7	4563.9	4348.7	4094.2	3795.8
47.5°	4402.4	4407.3	4392.6	4382.9	4358.4	4304.6	4226.4	4118.8	3967.1	3722.5	3424.1
50°	3786.1	3786.1	3810.6	3805.7	3805.7	3786.1	3751.9	3688.2	3556.2	3360.5	3081.8
52.5°	3169.7	3179.6	3194.3	3213.8	3238.2	3277.3	3238.2	3208.9	3125.7	2974.0	2734.4
55°	2533.8	2543.6	2568.1	2602.3	2631.7	2670.9	2680.6	2680.6	2636.5	2533.8	2352.9
57.5°	1990.9	1976.2	1995.8	2025.1	2064.3	2103.4	2132.7	2167.0	2162.1	2093.6	1946.9
60°	1496.8	1501.7	1516.3	1545.8	1575.1	1609.3	1648.5	1677.8	1692.5	1658.3	1565.3
62.5°	1090.8	1090.8	1110.4	1139.7	1154.4	1203.4	1227.8	1242.5	1257.1	1252.2	1193.5
65°	763.1	772.8	782.7	797.4	812.0	841.3	856.0	885.3	895.2	900.1	856.0
67.5°	538.1	523.4	533.2	542.9	557.6	577.3	606.6	606.6	621.2	621.2	591.9
70°	342.4	342.4	347.3	361.9	371.8	376.7	386.5	396.2	410.9	406.0	406.0
72.5°	229.9	225.0	229.9	234.8	239.7	254.3	254.3	259.2	269.1	274.0	254.3
75°	117.4	122.3	132.0	127.2	141.8	132.0	136.9	151.6	146.7	136.9	136.9
77.5°	97.8	97.8	97.8	93.0	102.7	102.7	97.8	107.6	102.7	102.7	97.8
80°	68.5	73.4	68.5	63.6	68.5	63.6	63.6	63.6	63.6	63.6	58.7
82.5°	53.9	44.0	49.0	44.0	49.0	49.0	44.0	39.1	39.1	44.0	39.1
85°	39.1	29.3	34.2	34.2	29.3	29.3	29.3	29.3	29.3	24.4	24.4
87.5°	24.4	14.7	14.7	14.7	19.5	19.5	19.5	14.7	19.5	19.5	9.8
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: P249486

CATALOG NUMBER: LD8B200D010 ER8B200940 8LBDW0B

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	9113.0	9113.0	9113.0	9113.0	9113.0	9113.0	9113.0	9113.0	9113.0	9113.0	9113.0
2.5°	9127.8	9122.9	9132.7	9127.8	9127.8	9122.9	9127.8	9122.9	9132.7	9113.0	9118.0
5°	9127.8	9118.0	9122.9	9127.8	9132.7	9122.9	9122.9	9122.9	9132.7	9122.9	9127.8
7.5°	9108.1	9103.2	9118.0	9127.8	9122.9	9118.0	9127.8	9122.9	9132.7	9127.8	9137.5
10°	9069.0	9073.9	9083.7	9098.3	9103.2	9108.1	9118.0	9118.0	9132.7	9113.0	9122.9
12.5°	9010.4	9029.9	9054.4	9064.1	9083.7	9083.7	9093.5	9098.3	9108.1	9103.2	9118.0
15°	8937.0	8961.4	8990.7	9015.3	9039.7	9054.4	9069.0	9073.9	9088.6	9073.9	9078.8
17.5°	8848.9	8878.2	8922.3	8951.6	8990.7	9005.4	9025.0	9034.8	9049.5	9039.7	9044.6
20°	8726.6	8760.9	8809.8	8853.8	8878.2	8912.4	8937.0	8951.6	8961.4	8951.6	8956.5
22.5°	8555.4	8604.4	8667.9	8702.2	8751.1	8780.4	8785.3	8819.6	8844.0	8819.6	8829.4
25°	8354.8	8403.8	8452.7	8526.1	8570.1	8604.4	8638.6	8643.5	8667.9	8663.0	8658.1
27.5°	8022.2	8085.9	8168.9	8227.7	8286.4	8340.2	8379.3	8389.0	8413.6	8403.8	8408.7
30°	7567.3	7635.8	7714.1	7807.0	7890.2	7943.9	7992.9	8027.1	8051.5	8036.9	8032.0
32.5°	6921.6	6990.1	7073.3	7166.2	7264.1	7342.2	7401.0	7445.1	7474.4	7464.6	7440.1
35°	6183.0	6202.6	6256.4	6329.8	6412.9	6496.0	6549.9	6598.7	6633.0	6642.8	6642.8
37.5°	5424.8	5361.3	5322.1	5322.1	5371.0	5405.2	5454.1	5483.5	5537.3	5556.8	5571.6
40°	4691.0	4544.3	4407.3	4304.6	4236.2	4231.3	4231.3	4245.9	4294.8	4358.4	4417.1
42.5°	4035.6	3800.7	3590.4	3399.7	3262.7	3184.5	3150.2	3155.1	3194.3	3252.9	3350.7
45°	3512.2	3218.7	2954.5	2724.6	2538.7	2416.4	2357.8	2352.9	2382.2	2450.6	2558.4
47.5°	3106.2	2793.1	2494.7	2230.5	2030.1	1897.9	1829.5	1809.9	1829.5	1893.0	2020.2
50°	2768.7	2445.9	2137.7	1863.7	1648.5	1511.6	1447.9	1423.5	1447.9	1501.7	1628.9
52.5°	2455.6	2122.9	1834.4	1570.2	1340.3	1222.9	1154.4	1139.7	1154.4	1218.0	1320.8
55°	2093.6	1809.9	1526.2	1262.0	1061.5	944.1	890.3	875.6	890.3	949.0	1056.6
57.5°	1736.6	1491.9	1242.5	1002.8	831.6	728.8	680.0	660.3	694.6	733.7	860.9
60°	1403.8	1208.3	997.9	787.6	645.7	552.7	513.6	508.7	518.5	567.4	655.4
62.5°	1100.7	939.2	772.8	601.7	484.3	445.1	396.2	391.4	401.1	430.4	499.0
65°	792.5	689.8	562.5	440.2	347.3	293.5	274.0	278.9	288.6	308.2	371.8
67.5°	552.7	479.4	391.4	308.2	239.7	215.2	195.7	190.8	195.7	229.9	264.2
70°	371.8	327.7	264.2	234.8	166.4	132.0	136.9	122.3	141.8	141.8	171.2
72.5°	244.5	215.2	176.1	136.9	117.4	93.0	93.0	88.1	97.8	102.7	127.2
75°	127.2	97.8	97.8	68.5	49.0	24.4	44.0	39.1	34.2	39.1	49.0
77.5°	88.1	73.4	68.5	53.9	49.0	39.1	39.1	39.1	39.1	44.0	49.0
80°	53.9	53.9	39.1	34.2	29.3	24.4	29.3	29.3	29.3	29.3	34.2
82.5°	34.2	29.3	29.3	24.4	24.4	19.5	19.5	19.5	19.5	19.5	29.3
85°	29.3	19.5	19.5	14.7	19.5	34.2	14.7	19.5	19.5	19.5	14.7
87.5°	9.8	14.7	14.7	14.7	9.8	4.9	9.8	14.7	14.7	24.4	19.5
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: P249486

CATALOG NUMBER: LD8B200D010 ER8B200940 8LBDW0B

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	9113.0	9113.0	9113.0	9113.0	9113.0	9113.0	9113.0	9113.0	9113.0	9113.0	9113.0
2.5°	9127.8	9132.7	9132.7	9127.8	9127.8	9118.0	9137.5	9122.9	9127.8	9147.3	9132.7
5°	9137.5	9142.4	9142.4	9137.5	9137.5	9137.5	9142.4	9142.4	9137.5	9132.7	9142.4
7.5°	9157.1	9152.2	9152.2	9142.4	9142.4	9132.7	9142.4	9127.8	9137.5	9127.8	9142.4
10°	9132.7	9137.5	9132.7	9127.8	9127.8	9122.9	9122.9	9108.1	9113.0	9098.3	9108.1
12.5°	9118.0	9113.0	9113.0	9103.2	9093.5	9083.7	9078.8	9064.1	9064.1	9029.9	9044.6
15°	9078.8	9083.7	9069.0	9049.5	9039.7	9015.3	9005.4	8985.8	8966.3	8941.9	8946.8
17.5°	9044.6	9029.9	9010.4	8990.7	8951.6	8932.1	8912.4	8883.1	8873.3	8844.0	8834.3
20°	8941.9	8932.1	8907.7	8873.3	8848.9	8804.8	8785.3	8756.0	8731.5	8702.2	8687.4
22.5°	8809.8	8799.9	8770.6	8736.4	8697.2	8677.7	8658.1	8604.4	8579.8	8550.5	8545.6
25°	8643.5	8628.8	8599.5	8560.3	8540.7	8486.9	8467.3	8428.2	8418.5	8389.0	8384.3
27.5°	8389.0	8369.5	8335.3	8286.4	8252.1	8217.9	8198.4	8168.9	8159.2	8129.8	8125.0
30°	8007.6	7983.1	7914.6	7895.1	7836.3	7802.1	7802.1	7762.9	7767.9	7748.3	7748.3
32.5°	7405.9	7366.8	7312.9	7273.8	7234.6	7215.1	7215.1	7200.4	7210.2	7210.2	7220.0
35°	6608.5	6554.8	6525.4	6500.9	6500.9	6520.5	6579.2	6593.9	6623.3	6647.7	6667.3
37.5°	5586.2	5581.4	5615.6	5644.9	5718.3	5801.5	5904.2	5992.3	6075.3	6134.1	6192.7
40°	4480.7	4603.0	4700.8	4837.9	4950.2	5111.7	5297.6	5449.2	5591.1	5693.9	5801.5
42.5°	3497.5	3654.0	3859.5	4060.0	4260.6	4480.7	4725.3	4935.6	5121.5	5263.4	5375.9
45°	2724.6	2939.8	3189.4	3443.7	3703.0	3976.9	4231.3	4446.5	4642.2	4788.9	4901.4
47.5°	2196.3	2431.1	2714.8	2993.7	3287.2	3575.7	3859.5	4045.4	4206.7	4324.1	4427.0
50°	1814.7	2064.3	2362.7	2680.6	2974.0	3262.7	3507.3	3688.2	3820.4	3923.1	3986.6
52.5°	1516.3	1780.5	2098.5	2416.4	2709.9	2974.0	3194.3	3331.2	3438.8	3512.2	3570.8
55°	1252.2	1506.7	1805.0	2103.4	2392.0	2641.4	2822.4	2925.2	3008.3	3052.3	3086.6
57.5°	1022.4	1257.1	1531.1	1805.0	2054.5	2260.0	2401.8	2504.5	2543.6	2577.9	2573.0
60°	802.3	1022.4	1271.8	1506.7	1721.9	1888.1	1990.9	2049.6	2078.9	2093.6	2083.8
62.5°	631.0	831.6	1022.4	1227.8	1384.3	1526.2	1624.1	1624.1	1638.7	1643.6	1658.3
65°	469.5	621.2	787.6	939.2	1066.3	1159.3	1213.2	1227.8	1247.4	1242.5	1232.7
67.5°	347.3	459.8	582.1	694.6	782.7	841.3	880.4	914.8	909.9	900.1	895.2
70°	239.7	313.1	420.7	489.2	552.7	611.5	621.2	626.1	631.0	635.9	626.1
72.5°	166.4	220.1	278.9	337.5	376.7	401.1	425.6	430.4	430.4	430.4	425.6
75°	83.2	112.5	166.4	190.8	225.0	234.8	254.3	254.3	269.1	249.4	244.5
77.5°	73.4	88.1	117.4	136.9	151.6	166.4	171.2	185.9	181.0	171.2	176.1
80°	44.0	53.9	73.4	83.2	102.7	107.6	112.5	117.4	112.5	117.4	117.4
82.5°	34.2	39.1	49.0	49.0	63.6	63.6	68.5	68.5	73.4	73.4	73.4
85°	19.5	34.2	29.3	58.7	39.1	39.1	49.0	58.7	49.0	49.0	58.7
87.5°	19.5	19.5	14.7	19.5	19.5	19.5	24.4	29.3	29.3	34.2	29.3
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: P249486

CATALOG NUMBER: LD8B200D010 ER8B200940 8LBDW0B

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	9113.0	9113.0	9113.0	9113.0
2.5°	9127.8	9137.5	9122.9	9118.0
5°	9142.4	9142.4	9132.7	9132.7
7.5°	9142.4	9142.4	9127.8	9118.0
10°	9103.2	9103.2	9088.6	9078.8
12.5°	9029.9	9029.9	9025.0	9010.4
15°	8937.0	8937.0	8917.4	8902.8
17.5°	8809.8	8819.6	8795.1	8795.1
20°	8672.8	8667.9	8648.4	8638.6
22.5°	8531.0	8521.2	8516.3	8486.9
25°	8379.3	8369.5	8354.8	8340.2
27.5°	8120.1	8115.2	8100.5	8081.0
30°	7723.8	7718.9	7699.4	7699.4
32.5°	7210.2	7205.3	7185.8	7190.7
35°	6677.0	6696.6	6686.8	6667.3
37.5°	6231.9	6246.6	6256.4	6246.6
40°	5860.1	5904.2	5909.1	5918.9
42.5°	5463.9	5522.6	5542.2	5551.9
45°	4989.4	5043.2	5087.3	5077.5
47.5°	4505.1	4544.3	4583.4	4554.1
50°	4040.5	4064.9	4079.6	4079.6
52.5°	3600.3	3600.3	3595.4	3600.3
55°	3096.4	3096.4	3076.9	3086.6
57.5°	2568.1	2577.9	2563.2	2538.7
60°	2078.9	2054.5	2044.7	2030.1
62.5°	1619.2	1619.2	1584.9	1628.9
65°	1213.2	1198.5	1183.7	1178.8
67.5°	880.4	875.6	860.9	856.0
70°	621.2	601.7	596.8	587.0
72.5°	415.8	415.8	406.0	406.0
75°	254.3	229.9	225.0	229.9
77.5°	176.1	171.2	171.2	166.4
80°	117.4	112.5	122.3	107.6
82.5°	73.4	78.3	73.4	78.3
85°	49.0	58.7	53.9	53.9
87.5°	29.3	29.3	29.3	29.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)