

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: P249621

Luminaire Tested: **LD8B200D010 ER8B2009730 8LBDW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249621
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 ER8B2009730 8LBDW0MW
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15961.0 lumens
Efficiency: N/A
Efficacy: 71.5 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

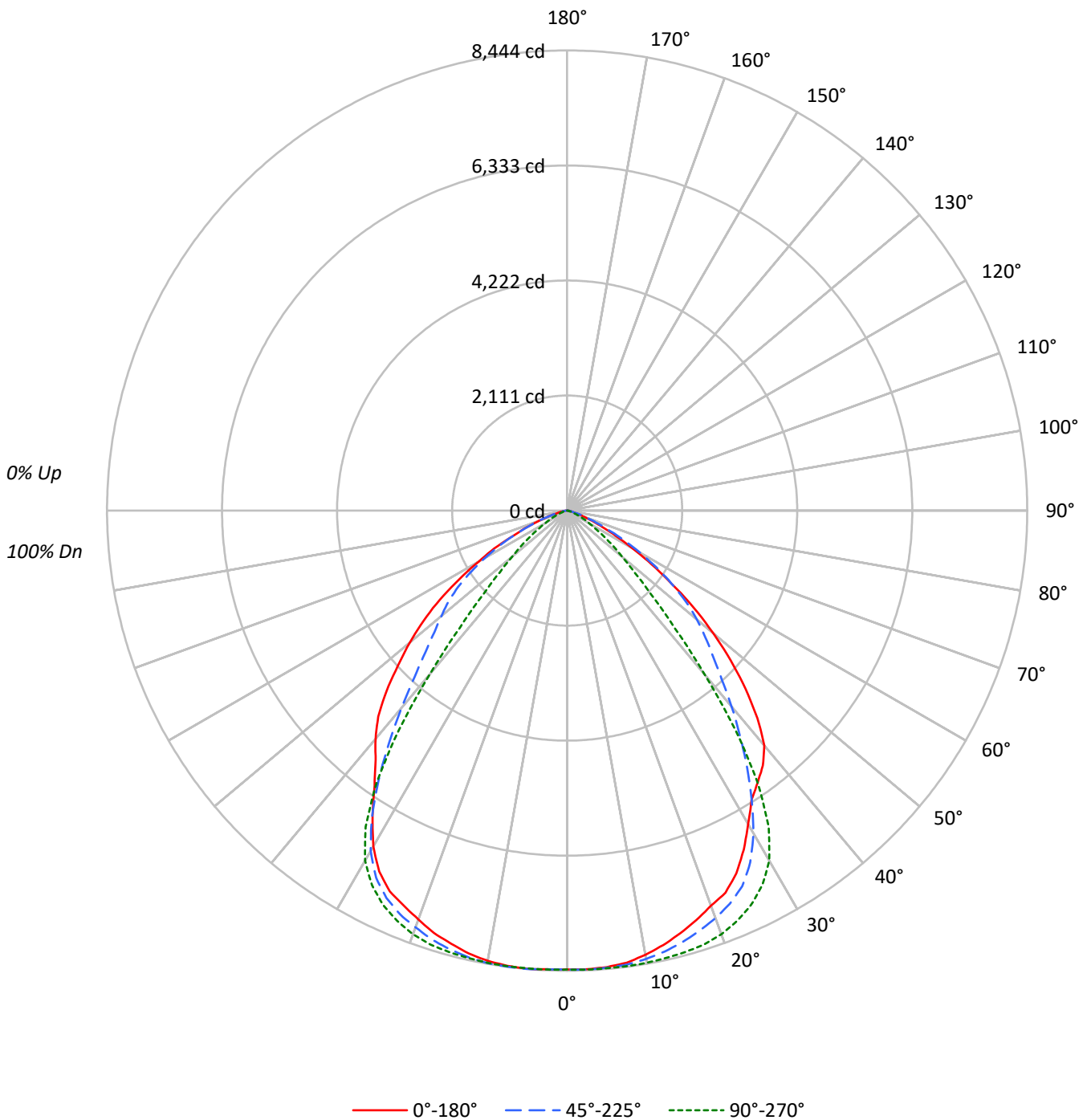
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P249621

CATALOG NUMBER: LD8B200D010 ER8B2009730 8LBDW0MW

Luminous Intensity Polar Plot





TEST NUMBER: P249621

CATALOG NUMBER: LD8B200D010 ER8B2009730 8LBDW0MW

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: P249621

CATALOG NUMBER: LD8B200D010 ER8B2009730 8LBDW0MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	803.7	5.0
10°-20°	2334.0	14.6
20°-30°	3542.6	22.2
30°-40°	3720.8	23.3
40°-50°	2789.6	17.5
50°-60°	1789.9	11.2
60°-70°	765.7	4.8
70°-80°	180.9	1.1
80°-90°	33.6	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°	6680.4	41.9
0°-40°	10401.2	65.2
0°-60°	14980.8	93.9
0°-90°	15961.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15961.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8421	8421	8421	8421	8421	
5°	8408	8421	8430	8444	8440	799
15°	8028	8195	8385	8331	8227	2264
25°	7346	7603	7987	7843	7707	3356
35°	6093	5754	6098	6026	6161	3824
45°	4629	3784	2174	3675	4692	3545
55°	2342	2342	809	2441	2852	2124
65°	705	832	258	1071	1089	753
75°	108	126	36	217	212	158
85°	36	23	18	36	50	38
90°	0	0	0	0	0	



TEST NUMBER: P249621

CATALOG NUMBER: LD8B200D010 ER8B2009730 8LBDW0MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	8421.3	8421.3	8421.3	8421.3	8421.3	8421.3	8421.3	8421.3	8421.3	8421.3	8421.3
2.5°	8425.9	8434.9	8430.4	8430.4	8425.9	8430.4	8430.4	8439.5	8439.5	8430.4	8425.9
5°	8407.7	8416.8	8416.8	8407.7	8407.7	8430.4	8416.8	8425.9	8425.9	8421.3	8421.3
7.5°	8367.1	8367.1	8385.2	8371.7	8371.7	8385.2	8380.6	8389.7	8398.8	8403.3	8403.3
10°	8276.7	8285.7	8290.3	8290.3	8294.8	8308.3	8317.4	8335.5	8344.5	8353.5	8358.1
12.5°	8163.7	8177.2	8181.8	8177.2	8190.8	8208.9	8231.5	8254.1	8267.7	8285.7	8299.3
15°	8028.0	8028.0	8037.1	8050.7	8059.8	8086.9	8109.4	8136.5	8172.7	8195.4	8217.9
17.5°	7878.9	7888.0	7901.5	7901.5	7919.6	7964.8	7978.4	8019.1	8059.8	8082.3	8127.6
20°	7716.2	7725.2	7738.8	7747.9	7770.4	7806.6	7833.7	7869.9	7915.1	7955.8	8000.9
22.5°	7589.6	7571.6	7580.5	7589.6	7612.3	7643.9	7675.5	7720.7	7765.9	7806.6	7851.8
25°	7345.5	7350.0	7363.6	7372.6	7399.8	7426.9	7463.1	7517.3	7558.0	7603.2	7652.9
27.5°	7015.5	7020.1	7042.6	7042.6	7065.2	7110.4	7133.0	7178.3	7232.6	7277.7	7336.5
30°	6640.4	6649.3	6649.3	6667.5	6681.0	6703.6	6726.2	6771.4	6798.5	6839.2	6920.6
32.5°	6296.8	6305.8	6301.3	6296.8	6283.2	6278.7	6274.2	6283.2	6292.3	6305.8	6337.4
35°	6093.4	6070.8	6052.7	6021.1	5984.9	5939.7	5899.0	5844.8	5795.0	5754.3	5709.2
37.5°	5899.0	5894.5	5867.4	5822.1	5749.8	5668.5	5573.6	5456.0	5338.5	5211.9	5089.9
40°	5627.8	5614.2	5591.6	5528.4	5447.0	5347.5	5221.0	5076.3	4886.4	4692.1	4493.2
42.5°	5166.7	5171.2	5144.1	5094.3	5017.6	4922.6	4791.5	4633.3	4429.9	4199.3	3941.7
45°	4628.8	4628.8	4619.7	4579.0	4524.8	4448.0	4348.5	4217.5	4018.6	3783.5	3507.7
47.5°	4068.3	4072.8	4059.2	4050.2	4027.6	3977.9	3905.6	3806.1	3666.0	3439.9	3164.2
50°	3498.8	3498.8	3521.3	3516.8	3516.8	3498.8	3467.1	3408.3	3286.3	3105.5	2847.8
52.5°	2929.1	2938.2	2951.8	2969.8	2992.4	3028.6	2992.4	2965.3	2888.4	2748.3	2526.9
55°	2341.5	2350.6	2373.1	2404.8	2432.0	2468.1	2477.1	2477.1	2436.4	2341.5	2174.3
57.5°	1839.8	1826.2	1844.3	1871.4	1907.6	1943.8	1970.9	2002.5	1998.0	1934.7	1799.1
60°	1383.2	1387.8	1401.3	1428.5	1455.6	1487.2	1523.4	1550.5	1564.1	1532.4	1446.5
62.5°	1008.1	1008.1	1026.1	1053.2	1066.8	1112.0	1134.6	1148.2	1161.7	1157.1	1103.0
65°	705.2	714.2	723.2	736.8	750.3	777.4	791.0	818.1	827.2	831.7	791.0
67.5°	497.3	483.7	492.7	501.7	515.3	533.4	560.5	560.5	574.0	574.0	546.9
70°	316.4	316.4	321.0	334.5	343.5	348.1	357.1	366.1	379.7	375.2	375.2
72.5°	212.5	207.9	212.5	217.0	221.5	235.0	235.0	239.6	248.6	253.2	235.0
75°	108.5	113.0	122.0	117.6	131.1	122.0	126.5	140.1	135.6	126.5	126.5
77.5°	90.4	90.4	90.4	85.9	94.9	94.9	90.4	99.4	94.9	94.9	90.4
80°	63.3	67.8	63.3	58.7	63.3	58.7	58.7	58.7	58.7	58.7	54.2
82.5°	49.8	40.7	45.2	40.7	45.2	45.2	40.7	36.2	36.2	40.7	36.2
85°	36.2	27.1	31.6	31.6	27.1	27.1	27.1	27.1	27.1	22.6	22.6
87.5°	22.6	13.6	13.6	13.6	18.0	18.0	18.0	13.6	18.0	18.0	9.1
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: P249621

CATALOG NUMBER: LD8B200D010 ER8B2009730 8LBDW0MW

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	8421.3	8421.3	8421.3	8421.3	8421.3	8421.3	8421.3	8421.3	8421.3	8421.3	8421.3
2.5°	8434.9	8430.4	8439.5	8434.9	8434.9	8430.4	8434.9	8430.4	8439.5	8421.3	8425.9
5°	8434.9	8425.9	8430.4	8434.9	8439.5	8430.4	8430.4	8430.4	8439.5	8430.4	8434.9
7.5°	8416.8	8412.3	8425.9	8434.9	8430.4	8425.9	8434.9	8430.4	8439.5	8434.9	8443.9
10°	8380.6	8385.2	8394.2	8407.7	8412.3	8416.8	8425.9	8425.9	8439.5	8421.3	8430.4
12.5°	8326.4	8344.5	8367.1	8376.1	8394.2	8394.2	8403.3	8407.7	8416.8	8412.3	8425.9
15°	8258.6	8281.2	8308.3	8331.0	8353.5	8367.1	8380.6	8385.2	8398.8	8385.2	8389.7
17.5°	8177.2	8204.3	8245.0	8272.1	8308.3	8321.9	8339.9	8349.0	8362.6	8353.5	8358.1
20°	8064.2	8095.9	8141.1	8181.8	8204.3	8236.0	8258.6	8272.1	8281.2	8272.1	8276.7
22.5°	7906.0	7951.3	8010.0	8041.6	8086.9	8114.0	8118.5	8150.1	8172.7	8150.1	8159.2
25°	7720.7	7765.9	7811.1	7878.9	7919.6	7951.3	7982.9	7987.4	8010.0	8005.5	8000.9
27.5°	7413.3	7472.1	7548.9	7603.2	7657.4	7707.2	7743.3	7752.3	7775.0	7765.9	7770.4
30°	6992.9	7056.3	7128.6	7214.4	7291.3	7341.0	7386.2	7417.8	7440.4	7426.9	7422.4
32.5°	6396.3	6459.5	6536.4	6622.2	6712.7	6784.9	6839.2	6879.9	6907.0	6898.0	6875.4
35°	5713.7	5731.8	5781.5	5849.3	5926.1	6003.0	6052.7	6097.9	6129.5	6138.6	6138.6
37.5°	5013.0	4954.3	4918.1	4918.1	4963.3	4994.9	5040.1	5067.2	5117.0	5135.0	5148.7
40°	4334.9	4199.3	4072.8	3977.9	3914.6	3910.1	3910.1	3923.6	3968.8	4027.6	4081.9
42.5°	3729.3	3512.3	3317.9	3141.6	3015.1	2942.7	2911.1	2915.7	2951.8	3006.0	3096.4
45°	3245.6	2974.4	2730.3	2517.8	2346.0	2233.0	2178.8	2174.3	2201.4	2264.6	2364.2
47.5°	2870.4	2581.1	2305.3	2061.2	1876.0	1753.9	1690.6	1672.6	1690.6	1749.3	1866.9
50°	2558.5	2260.2	1975.4	1722.2	1523.4	1396.8	1338.0	1315.4	1338.0	1387.8	1505.2
52.5°	2269.2	1961.8	1695.1	1451.0	1238.6	1130.1	1066.8	1053.2	1066.8	1125.5	1220.5
55°	1934.7	1672.6	1410.3	1166.2	981.0	872.4	822.7	809.2	822.7	877.0	976.4
57.5°	1604.8	1378.7	1148.2	926.6	768.5	673.5	628.3	610.2	641.8	678.0	795.6
60°	1297.3	1116.6	922.1	727.8	596.7	510.8	474.6	470.1	479.1	524.4	605.7
62.5°	1017.1	867.9	714.2	556.0	447.5	411.3	366.1	361.7	370.6	397.7	461.1
65°	732.3	637.4	519.8	406.8	321.0	271.2	253.2	257.7	266.7	284.8	343.5
67.5°	510.8	443.0	361.7	284.8	221.5	198.9	180.8	176.3	180.8	212.5	244.1
70°	343.5	302.8	244.1	217.0	153.7	122.0	126.5	113.0	131.1	131.1	158.2
72.5°	226.0	198.9	162.7	126.5	108.5	85.9	85.9	81.4	90.4	94.9	117.6
75°	117.6	90.4	90.4	63.3	45.2	22.6	40.7	36.2	31.6	36.2	45.2
77.5°	81.4	67.8	63.3	49.8	45.2	36.2	36.2	36.2	36.2	40.7	45.2
80°	49.8	49.8	36.2	31.6	27.1	22.6	27.1	27.1	27.1	27.1	31.6
82.5°	31.6	27.1	27.1	22.6	22.6	18.0	18.0	18.0	18.0	18.0	27.1
85°	27.1	18.0	18.0	13.6	18.0	31.6	13.6	18.0	18.0	18.0	13.6
87.5°	9.1	13.6	13.6	13.6	9.1	4.5	9.1	13.6	13.6	22.6	18.0
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: P249621

CATALOG NUMBER: LD8B200D010 ER8B2009730 8LBDW0MW

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	8421.3	8421.3	8421.3	8421.3	8421.3	8421.3	8421.3	8421.3	8421.3	8421.3	8421.3
2.5°	8434.9	8439.5	8439.5	8434.9	8434.9	8425.9	8443.9	8430.4	8434.9	8453.0	8439.5
5°	8443.9	8448.4	8448.4	8443.9	8443.9	8443.9	8448.4	8448.4	8443.9	8439.5	8448.4
7.5°	8462.0	8457.5	8457.5	8448.4	8448.4	8439.5	8448.4	8434.9	8443.9	8434.9	8448.4
10°	8439.5	8443.9	8439.5	8434.9	8434.9	8430.4	8430.4	8416.8	8421.3	8407.7	8416.8
12.5°	8425.9	8421.3	8421.3	8412.3	8403.3	8394.2	8389.7	8376.1	8376.1	8344.5	8358.1
15°	8389.7	8394.2	8380.6	8362.6	8353.5	8331.0	8321.9	8303.8	8285.7	8263.2	8267.7
17.5°	8358.1	8344.5	8326.4	8308.3	8272.1	8254.1	8236.0	8208.9	8199.8	8172.7	8163.7
20°	8263.2	8254.1	8231.5	8199.8	8177.2	8136.5	8118.5	8091.4	8068.7	8041.6	8028.0
22.5°	8141.1	8132.0	8104.9	8073.3	8037.1	8019.1	8000.9	7951.3	7928.6	7901.5	7897.0
25°	7987.4	7973.8	7946.7	7910.6	7892.4	7842.8	7824.6	7788.5	7779.5	7752.3	7747.9
27.5°	7752.3	7734.3	7702.6	7657.4	7625.8	7594.1	7576.1	7548.9	7539.9	7512.7	7508.3
30°	7399.8	7377.1	7313.9	7295.8	7241.5	7209.9	7209.9	7173.7	7178.3	7160.2	7160.2
32.5°	6843.8	6807.6	6757.8	6721.7	6685.5	6667.5	6667.5	6653.9	6662.9	6662.9	6672.0
35°	6106.9	6057.3	6030.1	6007.5	6007.5	6025.5	6079.8	6093.4	6120.5	6143.1	6161.2
37.5°	5162.1	5157.7	5189.4	5216.5	5284.3	5361.1	5456.0	5537.4	5614.2	5668.5	5722.7
40°	4140.6	4253.6	4344.0	4470.6	4574.5	4723.7	4895.5	5035.6	5166.7	5261.7	5361.1
42.5°	3232.0	3376.7	3566.6	3751.8	3937.2	4140.6	4366.7	4561.0	4732.8	4863.8	4967.8
45°	2517.8	2716.7	2947.3	3182.3	3421.9	3675.1	3910.1	4109.0	4289.8	4425.4	4529.4
47.5°	2029.6	2246.6	2508.7	2766.4	3037.6	3304.3	3566.6	3738.3	3887.4	3995.9	4090.9
50°	1677.0	1907.6	2183.3	2477.1	2748.3	3015.1	3241.1	3408.3	3530.4	3625.3	3684.0
52.5°	1401.3	1645.4	1939.2	2233.0	2504.2	2748.3	2951.8	3078.4	3177.8	3245.6	3299.8
55°	1157.1	1392.3	1668.0	1943.8	2210.4	2440.9	2608.2	2703.2	2779.9	2820.6	2852.3
57.5°	944.8	1161.7	1414.9	1668.0	1898.5	2088.4	2219.5	2314.4	2350.6	2382.2	2377.7
60°	741.4	944.8	1175.3	1392.3	1591.2	1744.8	1839.8	1894.0	1921.1	1934.7	1925.6
62.5°	583.1	768.5	944.8	1134.6	1279.3	1410.3	1500.8	1500.8	1514.3	1518.8	1532.4
65°	433.9	574.0	727.8	867.9	985.4	1071.3	1121.1	1134.6	1152.7	1148.2	1139.1
67.5°	321.0	424.9	537.9	641.8	723.2	777.4	813.6	845.3	840.8	831.7	827.2
70°	221.5	289.3	388.8	452.0	510.8	565.1	574.0	578.6	583.1	587.6	578.6
72.5°	153.7	203.4	257.7	311.9	348.1	370.6	393.3	397.7	397.7	397.7	393.3
75°	76.9	104.0	153.7	176.3	207.9	217.0	235.0	235.0	248.6	230.5	226.0
77.5°	67.8	81.4	108.5	126.5	140.1	153.7	158.2	171.8	167.2	158.2	162.7
80°	40.7	49.8	67.8	76.9	94.9	99.4	104.0	108.5	104.0	108.5	108.5
82.5°	31.6	36.2	45.2	45.2	58.7	58.7	63.3	63.3	67.8	67.8	67.8
85°	18.0	31.6	27.1	54.2	36.2	36.2	45.2	54.2	45.2	45.2	54.2
87.5°	18.0	18.0	13.6	18.0	18.0	18.0	22.6	27.1	27.1	31.6	27.1
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: P249621

CATALOG NUMBER: LD8B200D010 ER8B2009730 8LBDW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	8421.3	8421.3	8421.3	8421.3
2.5°	8434.9	8443.9	8430.4	8425.9
5°	8448.4	8448.4	8439.5	8439.5
7.5°	8448.4	8448.4	8434.9	8425.9
10°	8412.3	8412.3	8398.8	8389.7
12.5°	8344.5	8344.5	8339.9	8326.4
15°	8258.6	8258.6	8240.5	8227.0
17.5°	8141.1	8150.1	8127.6	8127.6
20°	8014.5	8010.0	7992.0	7982.9
22.5°	7883.5	7874.4	7869.9	7842.8
25°	7743.3	7734.3	7720.7	7707.2
27.5°	7503.8	7499.2	7485.6	7467.6
30°	7137.5	7133.0	7115.0	7115.0
32.5°	6662.9	6658.4	6640.4	6644.9
35°	6170.2	6188.3	6179.3	6161.2
37.5°	5758.9	5772.5	5781.5	5772.5
40°	5415.3	5456.0	5460.6	5469.6
42.5°	5049.2	5103.4	5121.6	5130.5
45°	4610.7	4660.4	4701.1	4692.1
47.5°	4163.2	4199.3	4235.5	4208.4
50°	3733.8	3756.4	3770.0	3770.0
52.5°	3327.0	3327.0	3322.5	3327.0
55°	2861.3	2861.3	2843.3	2852.3
57.5°	2373.1	2382.2	2368.6	2346.0
60°	1921.1	1898.5	1889.5	1876.0
62.5°	1496.3	1496.3	1464.6	1505.2
65°	1121.1	1107.5	1093.9	1089.3
67.5°	813.6	809.2	795.6	791.0
70°	574.0	556.0	551.5	542.4
72.5°	384.2	384.2	375.2	375.2
75°	235.0	212.5	207.9	212.5
77.5°	162.7	158.2	158.2	153.7
80°	108.5	104.0	113.0	99.4
82.5°	67.8	72.3	67.8	72.3
85°	45.2	54.2	49.8	49.8
87.5°	27.1	27.1	27.1	27.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)