

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: P248541

Luminaire Tested: **LD8B200D010 ER8B2009730 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248541
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13956)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B2009730 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16268.0 lumens
Efficiency: N/A
Efficacy: 72.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

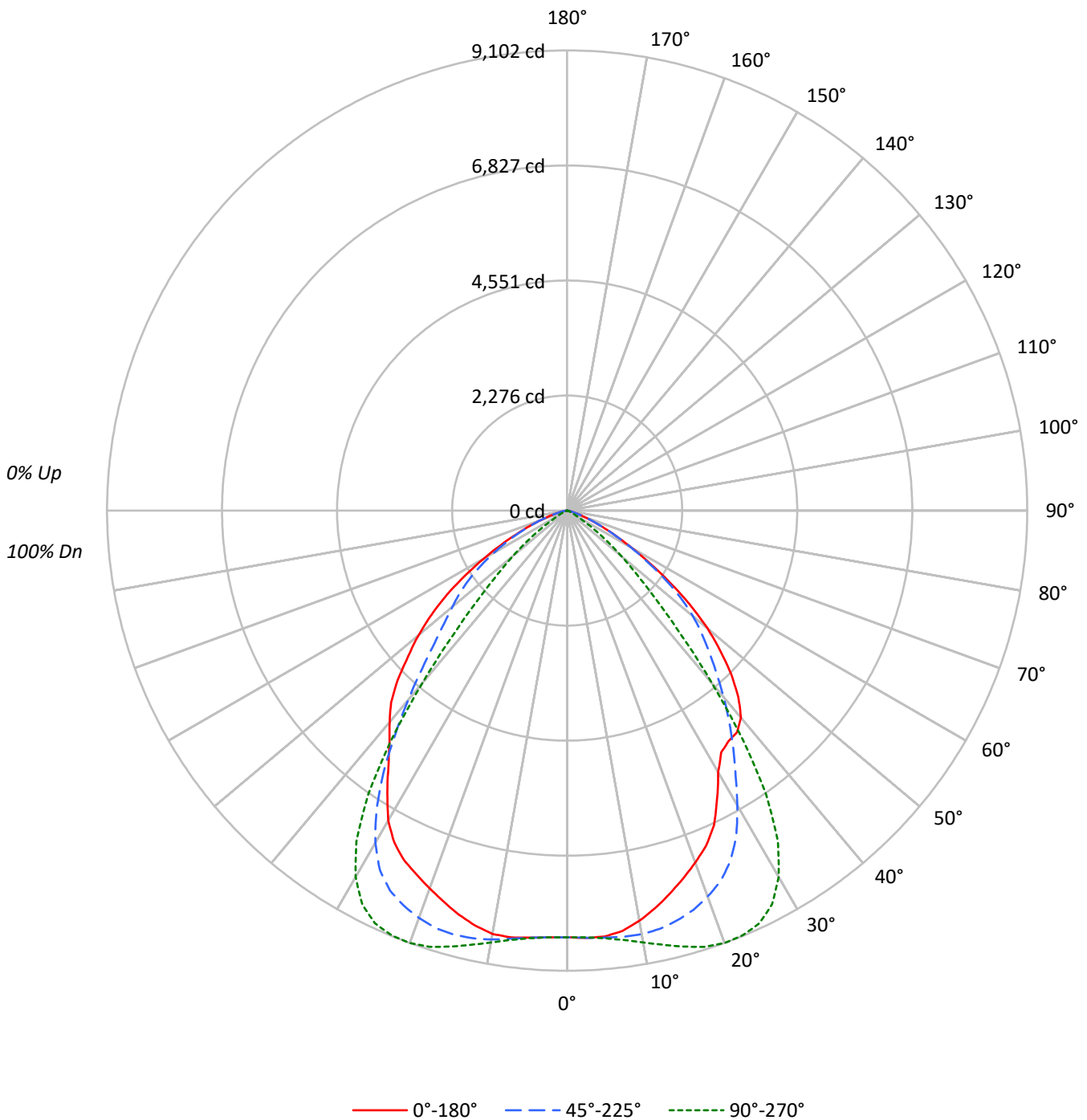
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P248541

CATALOG NUMBER: LD8B200D010 ER8B2009730 8LBDW0WH

Luminous Intensity Polar Plot





TEST NUMBER: P248541

CATALOG NUMBER: LD8B200D010 ER8B2009730 8LBDW0WH

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	92	90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38
10	60	48	41	36	59	48	41	36	47	41	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: P248541

CATALOG NUMBER: LD8B200D010 ER8B2009730 8LBDW0WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	811.6	5.0
10°-20°	2404.2	14.8
20°-30°	3667.9	22.5
30°-40°	3827.5	23.5
40°-50°	2875.0	17.7
50°-60°	1768.9	10.9
60°-70°	719.9	4.4
70°-80°	169.6	1.0
80°-90°	23.4	0.1
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°	6883.8	42.3
0°-40°	10711.3	65.8
0°-60°	15355.2	94.4
0°-90°	16268.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16268.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	8439	8439	8439	8439	8439	
5°	8457	8480	8489	8480	8480	800
15°	7844	8394	8928	8681	8274	2210
25°	6872	7642	9004	8292	7633	3124
35°	5568	5725	6858	6338	6159	3516
45°	4596	3978	2482	3704	4739	3507
55°	2482	2356	650	2356	2907	2231
65°	775	784	98	1053	1115	808
75°	134	134	18	237	246	162
85°	14	14	4	31	40	19
90°	0	0	0	0	0	



TEST NUMBER: P248541

CATALOG NUMBER: LD8B200D010 ER8B2009730 8LBDW0WH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	8439.3	8439.3	8439.3	8439.3	8439.3	8439.3	8439.3	8439.3	8439.3	8439.3	8439.3
2.5°	8461.7	8448.3	8461.7	8461.7	8466.2	8457.2	8461.7	8466.2	8457.2	8457.2	8457.2
5°	8457.2	8448.3	8457.2	8452.7	8461.7	8461.7	8470.7	8470.7	8479.6	8479.6	8493.1
7.5°	8385.6	8367.7	8385.6	8399.0	8407.9	8425.9	8448.3	8466.2	8484.1	8502.1	8524.4
10°	8237.7	8237.7	8251.2	8278.0	8304.9	8336.2	8376.6	8421.4	8466.2	8506.5	8546.8
12.5°	8054.1	8040.6	8067.5	8103.3	8143.7	8193.0	8255.7	8322.9	8394.5	8475.1	8537.9
15°	7843.6	7830.1	7861.4	7897.3	7946.6	8018.3	8094.4	8184.0	8287.0	8394.5	8497.6
17.5°	7628.5	7624.0	7655.4	7704.7	7745.0	7821.1	7919.7	8027.2	8143.7	8287.0	8421.4
20°	7409.1	7404.6	7435.9	7476.3	7530.0	7601.7	7700.2	7825.6	7964.5	8125.8	8282.5
22.5°	7180.6	7185.1	7211.9	7256.7	7301.6	7377.6	7480.7	7606.2	7758.4	7933.1	8107.8
25°	6871.5	6849.1	6885.0	6929.8	7005.8	7068.5	7167.2	7301.6	7458.3	7642.0	7848.1
27.5°	6423.5	6419.0	6450.5	6490.7	6557.9	6634.1	6741.6	6880.5	7046.2	7247.7	7449.3
30°	5975.6	5984.5	5998.0	6038.4	6083.1	6159.3	6266.8	6383.3	6540.0	6732.6	6947.6
32.5°	5671.0	5671.0	5688.9	5715.8	5747.1	5787.5	5863.7	5948.7	6069.7	6204.1	6360.8
35°	5567.9	5550.1	5567.9	5572.4	5576.9	5585.9	5599.3	5626.2	5666.5	5724.8	5783.0
37.5°	5523.2	5509.7	5509.7	5491.9	5469.4	5442.6	5406.7	5366.4	5321.7	5263.3	5218.6
40°	5348.5	5339.5	5330.5	5312.7	5263.3	5209.6	5151.3	5057.3	4954.3	4810.9	4667.6
42.5°	5012.6	5003.6	4999.1	4963.2	4918.4	4855.7	4788.5	4690.0	4560.1	4376.4	4170.4
45°	4596.0	4578.0	4564.6	4533.3	4501.8	4448.1	4385.4	4295.8	4165.9	3977.8	3731.4
47.5°	4112.2	4103.2	4098.7	4085.3	4054.0	4022.5	3982.3	3910.6	3794.1	3614.9	3359.6
50°	3623.9	3606.0	3614.9	3610.5	3597.0	3574.7	3547.7	3498.5	3408.8	3247.6	3014.7
52.5°	3063.9	3063.9	3059.5	3072.9	3077.4	3072.9	3077.4	3023.7	2947.5	2826.5	2629.4
55°	2481.6	2481.6	2495.1	2513.0	2530.9	2535.4	2530.9	2508.5	2454.7	2356.2	2181.5
57.5°	1935.1	1926.2	1953.1	1979.9	1997.9	2015.7	2002.3	1984.4	1953.1	1872.4	1738.0
60°	1473.7	1473.7	1491.6	1509.6	1527.5	1545.4	1540.9	1536.4	1509.6	1455.8	1348.4
62.5°	1084.0	1088.5	1088.5	1102.0	1119.8	1137.8	1151.2	1137.8	1124.3	1088.5	1016.8
65°	774.9	770.4	774.9	788.4	801.9	819.7	828.7	824.2	810.8	783.9	730.2
67.5°	519.6	515.1	533.0	537.5	546.5	564.5	560.0	564.5	560.0	537.5	492.8
70°	340.4	331.4	340.4	335.9	349.4	353.9	362.8	367.3	362.8	349.4	335.9
72.5°	210.6	206.1	210.6	215.0	219.5	223.9	232.9	232.9	228.4	219.5	201.6
75°	134.4	120.9	125.4	116.5	125.4	125.4	134.4	138.9	134.4	134.4	125.4
77.5°	80.7	80.7	80.7	80.7	80.7	80.7	80.7	85.2	89.5	80.7	76.2
80°	40.3	40.3	44.8	44.8	44.8	49.3	44.8	44.8	44.8	49.3	35.8
82.5°	31.3	26.9	26.9	26.9	31.3	26.9	26.9	26.9	26.9	26.9	26.9
85°	13.5	17.9	13.5	9.0	13.5	13.5	17.9	13.5	13.5	13.5	17.9
87.5°	4.5	4.5	0.0	0.0	0.0	4.5	0.0	4.5	4.5	9.0	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: P248541

CATALOG NUMBER: LD8B200D010 ER8B2009730 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	8439.3	8439.3	8439.3	8439.3	8439.3	8439.3	8439.3	8439.3	8439.3	8439.3	8439.3
2.5°	8461.7	8452.7	8452.7	8448.3	8457.2	8448.3	8452.7	8448.3	8448.3	8457.2	8448.3
5°	8493.1	8497.6	8488.6	8484.1	8497.6	8497.6	8497.6	8488.6	8488.6	8493.1	8488.6
7.5°	8537.9	8546.8	8551.3	8555.8	8564.8	8569.3	8569.3	8564.8	8560.3	8573.7	8555.8
10°	8587.1	8600.6	8627.5	8640.9	8663.3	8663.3	8672.3	8672.3	8663.3	8672.3	8667.8
12.5°	8569.3	8649.8	8694.6	8726.0	8757.3	8784.2	8793.2	8797.7	8793.2	8811.2	8793.2
15°	8600.6	8667.8	8739.5	8793.2	8851.4	8882.7	8891.7	8927.6	8936.5	8941.0	8914.2
17.5°	8551.3	8672.3	8748.4	8829.0	8914.2	8972.4	9026.1	9048.6	9053.0	9061.9	9026.1
20°	8439.3	8573.7	8690.1	8806.7	8905.2	8994.7	9039.6	9102.3	9084.4	9120.2	9070.9
22.5°	8287.0	8439.3	8587.1	8739.5	8842.5	8950.0	9044.1	9088.8	9111.3	9111.3	9057.4
25°	8045.1	8224.3	8385.6	8542.3	8699.1	8829.0	8936.5	9003.7	9017.2	9012.7	8950.0
27.5°	7668.8	7861.4	8049.6	8228.8	8421.4	8573.7	8699.1	8779.7	8802.2	8802.2	8735.0
30°	7149.2	7355.3	7539.0	7753.9	7951.1	8121.3	8296.0	8367.7	8407.9	8407.9	8331.8
32.5°	6531.0	6705.7	6876.0	7086.5	7301.6	7494.1	7659.9	7758.4	7807.7	7803.2	7736.0
35°	5859.2	5944.2	6074.2	6230.9	6423.5	6602.7	6764.0	6858.1	6943.2	6938.7	6876.0
37.5°	5187.2	5164.8	5178.3	5236.5	5357.4	5482.9	5608.3	5697.9	5769.5	5801.0	5787.5
40°	4528.8	4412.3	4300.2	4260.0	4268.9	4313.7	4380.9	4448.1	4528.8	4569.1	4587.0
42.5°	3937.5	3740.4	3543.2	3395.5	3310.3	3283.4	3314.8	3337.1	3386.5	3444.7	3503.0
45°	3462.6	3198.4	2938.5	2710.1	2566.7	2481.6	2463.7	2481.6	2508.5	2566.7	2642.9
47.5°	3072.9	2763.8	2472.7	2217.3	2006.8	1894.9	1863.5	1854.5	1881.4	1935.1	2038.1
50°	2728.0	2418.9	2096.4	1800.7	1581.3	1455.8	1411.1	1393.1	1424.4	1464.8	1558.8
52.5°	2351.7	2047.1	1715.6	1428.9	1200.5	1070.6	1021.3	994.4	1012.3	1066.1	1160.2
55°	1944.1	1661.8	1361.7	1066.1	846.6	725.7	667.4	649.5	667.4	725.7	819.7
57.5°	1536.4	1299.0	1048.2	770.4	573.3	452.4	394.1	376.3	425.6	448.0	546.5
60°	1200.5	1007.9	792.9	564.5	394.1	300.1	241.9	228.4	250.9	291.1	371.8
62.5°	900.4	779.4	609.2	403.1	291.1	192.6	161.2	147.9	161.2	192.6	255.4
65°	654.0	560.0	425.6	295.6	197.1	143.4	107.5	98.5	112.0	134.4	188.2
67.5°	448.0	376.3	295.6	206.1	134.4	89.5	76.2	76.2	80.7	98.5	138.9
70°	291.1	246.4	188.2	134.4	89.5	67.2	58.2	49.3	58.2	71.7	94.0
72.5°	183.7	156.7	120.9	94.0	67.2	49.3	40.3	35.8	44.8	53.7	71.7
75°	112.0	85.2	62.7	49.3	35.8	35.8	35.8	17.9	22.4	35.8	44.8
77.5°	67.2	58.2	49.3	40.3	31.3	17.9	17.9	17.9	22.4	26.9	40.3
80°	35.8	31.3	22.4	22.4	17.9	13.5	17.9	13.5	9.0	22.4	26.9
82.5°	22.4	17.9	17.9	17.9	22.4	9.0	13.5	9.0	13.5	17.9	13.5
85°	13.5	13.5	13.5	9.0	22.4	9.0	9.0	4.5	4.5	9.0	9.0
87.5°	0.0	4.5	4.5	0.0	4.5	0.0	4.5	4.5	4.5	4.5	4.5
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: P248541

CATALOG NUMBER: LD8B200D010 ER8B2009730 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	8439.3	8439.3	8439.3	8439.3	8439.3	8439.3	8439.3	8439.3	8439.3	8439.3	8439.3
2.5°	8452.7	8448.3	8452.7	8448.3	8448.3	8448.3	8452.7	8452.7	8448.3	8448.3	8457.2
5°	8488.6	8488.6	8488.6	8484.1	8479.6	8479.6	8488.6	8488.6	8475.1	8488.6	8488.6
7.5°	8564.8	8551.3	8564.8	8546.8	8537.9	8542.3	8546.8	8537.9	8528.9	8533.4	8533.4
10°	8663.3	8649.8	8649.8	8636.4	8623.0	8614.0	8605.1	8582.6	8560.3	8555.8	8537.9
12.5°	8779.7	8757.3	8744.0	8717.0	8694.6	8663.3	8636.4	8600.6	8555.8	8524.4	8493.1
15°	8896.2	8860.4	8829.0	8784.2	8735.0	8681.2	8623.0	8564.8	8493.1	8430.4	8376.6
17.5°	8990.2	8941.0	8882.7	8811.2	8739.5	8658.8	8573.7	8488.6	8385.6	8304.9	8242.2
20°	9021.6	8950.0	8873.8	8779.7	8685.7	8573.7	8466.2	8354.2	8237.7	8152.6	8081.0
22.5°	8981.4	8896.2	8802.2	8703.6	8578.1	8457.2	8331.8	8201.9	8098.8	7982.4	7915.2
25°	8869.4	8766.3	8663.3	8546.8	8425.9	8291.5	8157.1	8022.8	7897.3	7834.6	7749.5
27.5°	8640.9	8528.9	8416.9	8296.0	8157.1	8022.8	7883.9	7753.9	7646.5	7561.3	7512.1
30°	8237.7	8107.8	7977.9	7848.1	7727.1	7588.2	7458.3	7350.8	7243.3	7176.1	7126.9
32.5°	7619.5	7503.1	7373.2	7247.7	7135.8	7019.3	6911.8	6817.8	6741.6	6696.8	6660.9
35°	6786.4	6669.9	6571.4	6481.8	6387.7	6338.5	6271.3	6217.5	6186.1	6168.2	6163.8
37.5°	5738.2	5671.0	5639.6	5621.8	5603.8	5590.4	5599.3	5621.8	5639.6	5671.0	5706.8
40°	4618.3	4676.5	4694.5	4757.2	4815.4	4891.6	4976.7	5075.3	5155.8	5258.9	5330.5
42.5°	3597.0	3704.5	3829.9	3964.3	4107.7	4246.5	4416.8	4573.5	4716.9	4846.7	4958.8
45°	2763.8	2929.5	3117.7	3310.3	3503.0	3704.5	3910.6	4103.2	4273.4	4412.3	4528.8
47.5°	2154.6	2338.3	2580.2	2817.6	3050.5	3287.9	3516.4	3717.9	3861.3	3995.7	4098.7
50°	1706.7	1917.2	2181.5	2454.7	2710.1	2960.9	3202.8	3391.0	3534.3	3641.8	3717.9
52.5°	1321.4	1572.3	1841.0	2127.8	2401.0	2674.3	2898.2	3072.9	3189.4	3283.4	3341.6
55°	985.5	1231.9	1518.6	1814.2	2091.9	2356.2	2566.7	2719.1	2822.1	2875.8	2907.2
57.5°	712.2	936.2	1222.9	1518.6	1769.4	2020.2	2190.5	2329.3	2387.5	2418.9	2432.4
60°	519.6	725.7	981.0	1236.3	1473.7	1675.3	1823.2	1917.2	1962.0	1979.9	1975.4
62.5°	380.8	560.0	779.4	994.4	1187.0	1352.7	1469.3	1532.0	1554.4	1563.3	1549.9
65°	291.1	430.0	618.2	783.9	931.8	1052.6	1137.8	1178.1	1191.5	1187.0	1178.1
67.5°	215.0	322.6	461.4	586.8	694.3	788.4	833.2	869.1	877.9	864.6	851.1
70°	152.3	237.4	335.9	421.1	501.7	555.5	604.7	609.2	609.2	604.7	595.8
72.5°	107.5	165.7	228.4	286.7	335.9	376.3	394.1	407.6	403.1	398.6	389.8
75°	71.7	103.0	165.7	179.2	223.9	237.4	255.4	255.4	259.8	246.4	246.4
77.5°	44.8	71.7	98.5	116.5	134.4	152.3	161.2	161.2	165.7	161.2	161.2
80°	26.9	44.8	53.7	80.7	80.7	94.0	98.5	103.0	94.0	107.5	94.0
82.5°	17.9	26.9	40.3	40.3	49.3	58.2	58.2	62.7	62.7	58.2	58.2
85°	13.5	17.9	22.4	26.9	26.9	31.3	26.9	26.9	31.3	35.8	31.3
87.5°	4.5	9.0	4.5	9.0	9.0	17.9	13.5	13.5	13.5	17.9	17.9
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: P248541

CATALOG NUMBER: LD8B200D010 ER8B2009730 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	8439.3	8439.3	8439.3	8439.3
2.5°	8448.3	8452.7	8448.3	8448.3
5°	8488.6	8484.1	8488.6	8479.6
7.5°	8519.9	8519.9	8515.4	8515.4
10°	8519.9	8502.1	8502.1	8502.1
12.5°	8452.7	8430.4	8416.9	8407.9
15°	8336.2	8296.0	8278.0	8273.5
17.5°	8184.0	8148.2	8125.8	8112.3
20°	8009.3	7973.4	7946.6	7951.1
22.5°	7856.9	7816.7	7798.7	7789.7
25°	7704.7	7655.4	7642.0	7633.0
27.5°	7458.3	7431.4	7418.0	7404.6
30°	7082.0	7068.5	7046.2	7077.5
32.5°	6647.5	6625.1	6607.2	6620.7
35°	6168.2	6154.8	6168.2	6159.3
37.5°	5729.3	5742.7	5760.6	5769.5
40°	5384.3	5433.6	5451.5	5460.4
42.5°	5039.4	5097.6	5133.5	5155.8
45°	4613.8	4672.0	4712.4	4739.3
47.5°	4174.9	4224.2	4264.4	4260.0
50°	3776.2	3803.1	3820.9	3838.9
52.5°	3373.0	3373.0	3377.5	3377.5
55°	2916.2	2907.2	2902.7	2907.2
57.5°	2414.4	2405.5	2401.0	2387.5
60°	1957.5	1930.7	1912.7	1912.7
62.5°	1532.0	1500.6	1487.2	1482.7
65°	1151.2	1146.7	1119.8	1115.3
67.5°	833.2	815.2	797.4	801.9
70°	586.8	560.0	560.0	551.0
72.5°	380.8	367.3	362.8	362.8
75°	237.4	237.4	228.4	246.4
77.5°	156.7	156.7	152.3	156.7
80°	94.0	94.0	94.0	89.5
82.5°	58.2	62.7	58.2	58.2
85°	31.3	35.8	26.9	40.3
87.5°	17.9	22.4	17.9	22.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)