

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: P249775

Luminaire Tested: **LD8B175D010 ER8B1759727 8LBSW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249775
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13955)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B1759727 8LBSWOLI
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 2700 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13505.0 lumens
Efficiency: N/A
Efficacy: 76.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.15
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

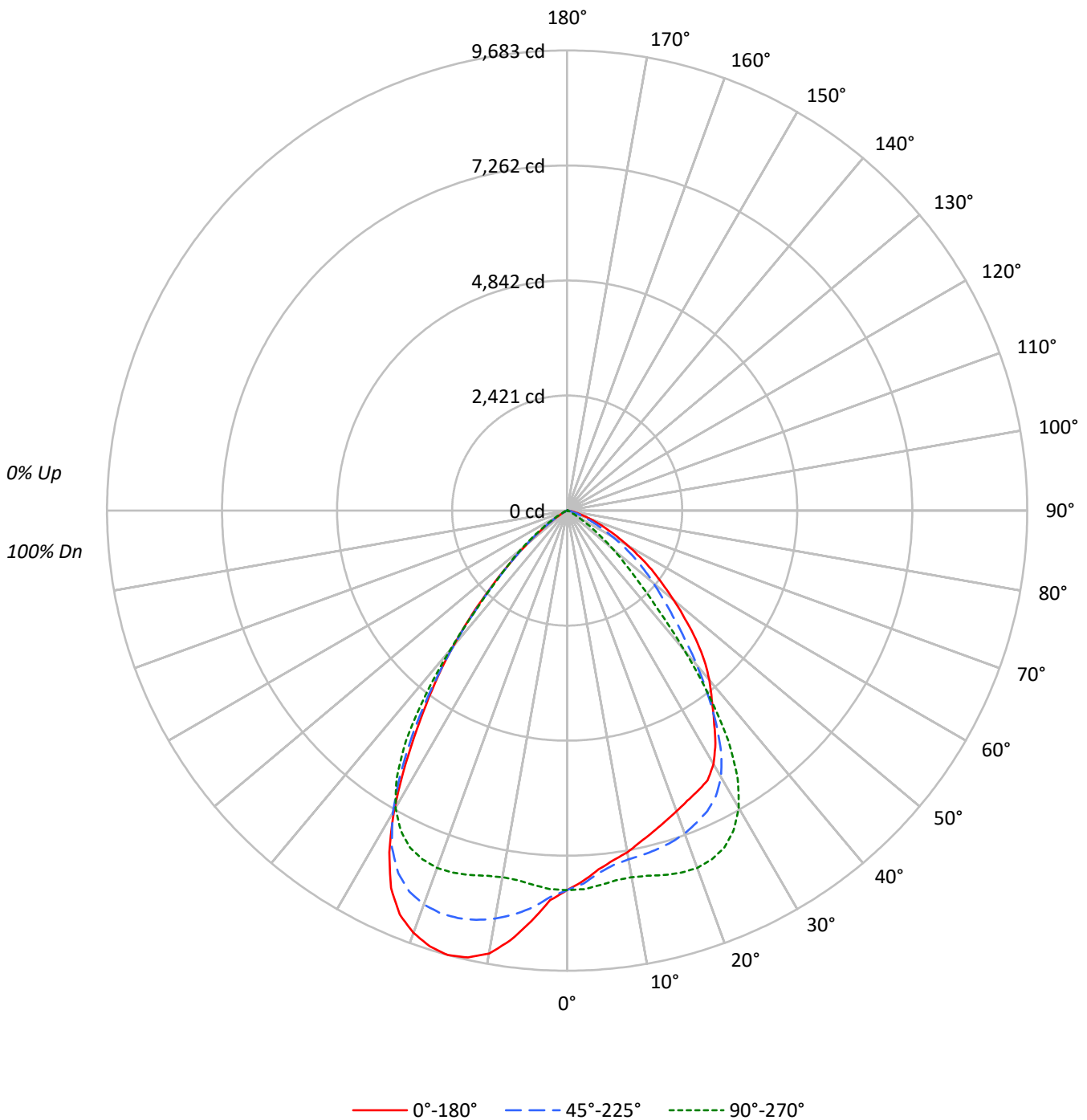
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100			
1	112	109	106	103	110	107	104	102	103	100	98	99	97	96	95	94	93	91	91	91	91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82	82	82	82			
3	98	90	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73	73	73	73			
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66	66	66	66			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	69	65	61	60	60	60	60			
6	80	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54	54	54	54			
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	49	49	49	49			
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45	45	45	45			
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42	42	42	42			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	38	38	38	38			

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°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	767.7	5.7
10°-20°	2297.6	17.0
20°-30°	3518.5	26.1
30°-40°	3449.3	25.5
40°-50°	2077.2	15.4
50°-60°	956.1	7.1
60°-70°	335.9	2.5
70°-80°	87.8	0.7
80°-90°	15.0	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°	6583.8	48.8
0°-40°	10033.1	74.3
0°-60°	13066.3	96.8
0°-90°	13505.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13505.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7986	7986	7986	7986	7986	
5°	7579	7650	7911	8385	8672	716
15°	6997	7374	7937	8878	9683	1977
25°	6508	6978	7825	8415	8766	2997
35°	5385	5459	5911	5571	5392	3372
45°	3825	3150	2134	2149	2205	2933
55°	2172	1720	612	481	463	1938
65°	922	638	97	48	52	939
75°	239	138	8	0	0	290
85°	37	19	4	0	0	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	7985.5	7985.5	7985.5	7985.5	7985.5	7985.5	7985.5	7985.5	7985.5	7985.5	7985.5
2.5°	7798.9	7806.4	7806.4	7806.4	7821.3	7825.2	7821.3	7825.2	7832.6	7858.7	7869.9
5°	7578.8	7567.6	7575.1	7571.3	7590.0	7601.2	7593.7	7604.9	7631.0	7649.8	7668.4
7.5°	7422.2	7422.2	7422.2	7429.5	7440.7	7463.2	7459.5	7466.8	7493.0	7519.1	7545.2
10°	7299.0	7295.3	7295.3	7313.9	7328.8	7354.9	7362.4	7384.8	7418.3	7451.9	7481.7
12.5°	7138.5	7142.3	7160.9	7179.6	7213.1	7254.1	7276.5	7306.5	7358.7	7414.6	7448.3
15°	6996.7	7000.4	7015.4	7052.6	7093.8	7142.3	7190.7	7239.2	7302.7	7373.6	7433.4
17.5°	6858.6	6862.3	6873.5	6914.7	6966.9	7030.3	7086.2	7149.7	7231.8	7313.9	7388.5
20°	6731.7	6728.1	6746.6	6784.0	6851.2	6910.8	6966.9	7041.5	7131.1	7231.8	7317.6
22.5°	6608.6	6608.6	6627.3	6664.6	6724.4	6784.0	6843.7	6922.0	7011.6	7108.7	7209.4
25°	6507.8	6504.1	6530.2	6549.0	6593.7	6653.4	6716.8	6780.3	6869.8	6978.1	7075.0
27.5°	6399.7	6396.0	6399.7	6422.1	6463.1	6507.8	6556.3	6612.4	6687.0	6776.6	6869.8
30°	6160.8	6164.5	6164.5	6183.3	6205.7	6254.1	6280.2	6336.2	6403.4	6478.0	6560.2
32.5°	5806.3	5810.0	5810.0	5817.5	5836.1	5858.6	5881.0	5922.0	5974.2	6037.6	6112.3
35°	5384.7	5384.7	5380.9	5384.7	5395.9	5395.9	5414.5	5395.9	5422.0	5459.4	5515.3
37.5°	4996.6	4989.1	4981.7	4974.2	4962.9	4944.4	4918.3	4873.4	4862.2	4847.3	4851.0
40°	4653.3	4649.6	4627.2	4608.5	4571.1	4526.4	4463.0	4384.7	4321.2	4246.6	4183.1
42.5°	4272.7	4268.9	4250.3	4216.6	4175.6	4108.5	4007.7	3903.3	3776.4	3664.5	3548.8
45°	3824.8	3836.0	3809.9	3772.6	3724.1	3660.6	3548.8	3421.8	3294.9	3149.5	3003.8
47.5°	3358.3	3354.7	3336.1	3313.6	3272.6	3209.2	3134.6	2996.5	2862.1	2727.8	2578.5
50°	2925.5	2910.6	2903.1	2880.8	2854.7	2802.5	2724.0	2612.0	2492.7	2365.8	2227.7
52.5°	2515.1	2515.1	2496.4	2481.5	2459.0	2418.0	2350.9	2261.4	2160.6	2041.1	1895.7
55°	2171.8	2164.3	2145.7	2127.0	2104.6	2078.4	2018.8	1944.2	1835.9	1720.3	1593.4
57.5°	1806.1	1802.3	1794.9	1772.5	1761.3	1735.2	1668.0	1593.4	1500.2	1399.4	1294.8
60°	1477.7	1462.8	1447.8	1432.9	1414.3	1388.2	1343.3	1279.9	1201.6	1112.0	1007.6
62.5°	1183.0	1205.3	1160.6	1160.6	1123.2	1100.8	1059.8	1022.5	940.3	858.3	768.7
65°	921.7	921.7	903.0	888.1	865.7	839.5	798.5	761.2	701.5	638.0	574.6
67.5°	705.3	701.5	682.9	668.0	649.2	634.3	604.5	559.7	515.0	462.8	410.4
70°	518.7	515.0	511.2	485.1	470.2	451.6	429.1	399.3	365.7	328.4	279.8
72.5°	373.1	373.1	362.0	350.8	335.9	320.9	298.6	279.8	250.1	223.9	190.3
75°	238.8	235.2	235.2	216.4	216.4	194.0	179.1	167.9	153.0	138.1	108.3
77.5°	171.7	167.9	164.2	156.7	149.3	141.8	130.6	115.7	104.4	89.5	78.3
80°	115.7	108.3	104.4	104.4	93.2	89.5	93.2	71.0	67.1	55.9	48.5
82.5°	71.0	71.0	67.1	67.1	63.4	59.7	48.5	48.5	44.8	41.0	33.6
85°	37.3	48.5	33.6	37.3	33.6	37.3	33.6	26.1	22.4	18.6	18.6
87.5°	22.4	14.9	14.9	22.4	18.6	14.9	14.9	14.9	11.2	7.5	7.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	7985.5	7985.5	7985.5	7985.5	7985.5	7985.5	7985.5	7985.5	7985.5	7985.5	7985.5
2.5°	7862.5	7888.6	7884.8	7918.4	7929.6	7955.7	7955.7	7974.3	7985.5	8011.6	8034.1
5°	7675.9	7716.9	7728.1	7769.1	7802.8	7843.8	7869.9	7910.9	7948.2	8004.3	8056.5
7.5°	7560.2	7593.7	7616.1	7664.7	7702.0	7746.7	7791.5	7847.5	7899.7	7967.0	8041.6
10°	7504.2	7549.0	7582.5	7631.0	7675.9	7724.4	7769.1	7832.6	7892.3	7978.2	8060.2
12.5°	7489.3	7541.5	7582.5	7649.8	7694.5	7746.7	7798.9	7869.9	7933.3	8022.9	8116.2
15°	7489.3	7560.2	7616.1	7690.8	7743.0	7810.1	7866.2	7937.0	8008.0	8101.2	8190.7
17.5°	7474.4	7560.2	7631.0	7716.9	7784.0	7851.3	7922.1	7989.4	8063.9	8153.6	8254.2
20°	7414.6	7522.9	7608.6	7709.4	7780.3	7855.0	7925.9	8000.4	8078.9	8172.2	8258.0
22.5°	7310.2	7437.0	7534.1	7642.3	7724.4	7798.9	7869.9	7944.5	8030.4	8119.9	8209.5
25°	7172.1	7291.4	7396.0	7507.9	7590.0	7672.0	7739.3	7825.2	7903.5	7989.4	8060.2
27.5°	6963.1	7089.9	7190.7	7306.5	7381.0	7459.5	7515.4	7586.3	7661.0	7731.8	7787.9
30°	6649.7	6765.4	6869.8	6974.3	7048.9	7105.0	7164.6	7220.6	7269.2	7317.6	7366.1
32.5°	6190.6	6295.2	6396.0	6492.9	6552.7	6601.2	6645.9	6679.5	6705.6	6731.7	6735.4
35°	5560.1	5645.8	5709.3	5795.1	5851.2	5895.9	5895.9	5910.8	5907.1	5895.9	5884.7
37.5°	4854.8	4888.3	4914.4	4948.0	4951.7	4951.7	4929.5	4910.7	4880.9	4873.4	4851.0
40°	4119.7	4074.9	4041.2	3996.5	3970.4	3914.4	3866.0	3832.3	3783.8	3776.4	3768.9
42.5°	3421.8	3317.3	3224.1	3145.8	3056.2	2977.7	2906.9	2854.7	2817.4	2813.5	2817.4
45°	2854.7	2735.2	2597.1	2489.0	2388.2	2291.2	2197.9	2134.5	2100.9	2093.3	2100.9
47.5°	2425.6	2287.5	2153.1	2029.9	1921.8	1813.5	1720.3	1634.4	1593.4	1582.2	1578.5
50°	2086.0	1944.2	1802.3	1675.4	1556.1	1447.8	1332.1	1250.1	1197.9	1179.1	1164.2
52.5°	1753.9	1627.0	1481.4	1350.9	1231.4	1104.5	985.2	891.8	839.5	817.3	802.2
55°	1462.8	1336.0	1201.6	1074.7	947.8	821.0	701.5	611.9	556.0	529.9	511.2
57.5°	1167.9	1048.6	932.9	806.1	701.5	578.4	458.9	380.6	332.1	302.3	287.4
60°	903.0	809.8	709.0	604.5	503.8	403.0	306.0	231.3	194.0	171.7	153.0
62.5°	682.9	604.5	537.3	447.7	369.4	283.5	209.0	149.3	115.7	97.1	89.5
65°	492.6	432.8	373.1	317.2	261.3	197.8	141.8	97.1	67.1	55.9	52.2
67.5°	350.8	302.3	257.4	220.1	179.1	141.8	100.8	67.1	52.2	44.8	41.0
70°	246.2	209.0	179.1	145.6	119.3	93.2	78.3	48.5	29.8	33.6	26.1
72.5°	164.2	138.1	123.2	100.8	82.0	67.1	48.5	33.6	33.6	26.1	22.4
75°	89.5	82.0	63.4	48.5	41.0	37.3	14.9	7.5	3.7	11.2	3.7
77.5°	63.4	55.9	48.5	41.0	33.6	26.1	14.9	14.9	11.2	14.9	7.5
80°	41.0	33.6	29.8	29.8	18.6	11.2	7.5	7.5	11.2	3.7	3.7
82.5°	26.1	22.4	18.6	18.6	18.6	11.2	11.2	11.2	11.2	7.5	7.5
85°	14.9	11.2	7.5	7.5	3.7	7.5	0.0	3.7	3.7	0.0	0.0
87.5°	7.5	3.7	3.7	3.7	3.7	0.0	0.0	3.7	0.0	3.7	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



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	7985.5	7985.5	7985.5	7985.5	7985.5	7985.5	7985.5	7985.5	7985.5	7985.5	7985.5
2.5°	8049.0	8063.9	8082.6	8097.5	8131.1	8138.5	8153.6	8168.5	8179.7	8190.7	8194.6
5°	8101.2	8157.3	8209.5	8265.4	8336.3	8384.9	8440.8	8489.3	8537.9	8578.9	8608.7
7.5°	8116.2	8201.9	8280.4	8377.4	8481.8	8571.5	8664.7	8758.0	8855.0	8929.7	8993.1
10°	8146.0	8250.5	8351.2	8466.9	8601.3	8720.6	8836.3	8959.5	9082.7	9187.1	9280.5
12.5°	8198.3	8313.9	8422.2	8549.1	8687.2	8821.4	8948.3	9086.3	9217.1	9332.7	9437.2
15°	8284.1	8392.3	8496.9	8616.2	8754.3	8877.5	9004.3	9138.6	9269.3	9388.6	9485.7
17.5°	8340.0	8440.8	8545.2	8653.5	8769.2	8881.1	9000.5	9120.0	9239.3	9347.6	9437.2
20°	8340.0	8437.1	8515.4	8612.5	8720.6	8817.7	8914.8	9019.2	9123.7	9213.2	9299.1
22.5°	8272.9	8366.1	8425.9	8500.5	8593.8	8675.9	8728.2	8843.8	8922.2	9000.5	9063.9
25°	8116.2	8183.4	8231.9	8284.1	8358.8	8414.7	8459.5	8526.6	8605.0	8634.9	8679.6
27.5°	7832.6	7881.1	7907.2	7918.4	7955.7	7985.5	7993.1	8022.9	8056.5	8063.9	8082.6
30°	7384.8	7388.5	7377.3	7373.6	7354.9	7332.6	7328.8	7325.1	7310.2	7295.3	7299.0
32.5°	6709.3	6690.7	6645.9	6597.5	6549.0	6496.7	6466.8	6429.5	6407.0	6384.8	6358.7
35°	5836.1	5791.4	5728.0	5668.3	5612.3	5571.2	5504.1	5481.6	5459.4	5429.4	5422.0
37.5°	4810.0	4783.9	4724.1	4679.4	4649.6	4630.9	4597.2	4575.0	4575.0	4563.8	4556.2
40°	3750.2	3742.8	3720.4	3731.6	3716.7	3724.1	3720.4	3712.8	3731.6	3731.6	3739.1
42.5°	2813.5	2817.4	2828.6	2836.0	2858.4	2862.1	2880.8	2880.8	2892.0	2903.1	2910.6
45°	2093.3	2108.4	2108.4	2123.3	2145.7	2149.4	2156.8	2160.6	2168.0	2186.7	2194.1
47.5°	1571.0	1574.7	1574.7	1578.5	1585.9	1593.4	1589.7	1593.4	1604.6	1597.1	1604.6
50°	1160.6	1164.2	1153.0	1141.8	1153.0	1153.0	1149.3	1138.1	1149.3	1134.4	1141.8
52.5°	791.2	787.3	776.1	780.0	772.4	768.7	768.7	761.2	761.2	761.2	746.3
55°	500.1	500.1	492.6	492.6	488.9	481.4	477.7	473.8	470.2	466.5	466.5
57.5°	279.8	283.5	272.5	268.6	272.5	268.6	261.3	261.3	261.3	250.1	257.4
60°	153.0	149.3	145.6	141.8	138.1	141.8	141.8	134.4	134.4	134.4	138.1
62.5°	82.0	82.0	78.3	78.3	74.6	74.6	82.0	71.0	74.6	71.0	74.6
65°	44.8	55.9	41.0	41.0	52.2	48.5	44.8	44.8	48.5	41.0	44.8
67.5°	48.5	33.6	29.8	33.6	29.8	29.8	29.8	37.3	33.6	26.1	33.6
70°	22.4	26.1	26.1	18.6	29.8	14.9	26.1	14.9	22.4	18.6	22.4
72.5°	22.4	22.4	22.4	14.9	22.4	14.9	18.6	18.6	14.9	14.9	22.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	7.5	7.5	3.7	3.7	3.7	3.7	7.5	7.5	7.5	0.0	3.7
80°	7.5	7.5	0.0	3.7	0.0	0.0	3.7	0.0	3.7	0.0	7.5
82.5°	3.7	7.5	3.7	3.7	7.5	7.5	7.5	3.7	3.7	3.7	3.7
85°	0.0	3.7	0.0	0.0	0.0	0.0	7.5	0.0	0.0	0.0	3.7
87.5°	0.0	3.7	0.0	0.0	0.0	0.0	3.7	3.7	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: P249775

CATALOG NUMBER: LD8B175D010 ER8B1759727 8LBSWOLI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	7985.5	7985.5	7985.5	7985.5
2.5°	8198.3	8201.9	8209.5	8205.8
5°	8631.1	8661.0	8675.9	8672.3
7.5°	9037.8	9090.2	9120.0	9120.0
10°	9351.3	9411.0	9455.7	9463.3
12.5°	9519.2	9586.5	9646.2	9631.1
15°	9567.7	9635.0	9694.6	9683.4
17.5°	9511.8	9578.9	9623.8	9616.2
20°	9358.8	9414.7	9459.6	9455.7
22.5°	9120.0	9168.5	9205.8	9202.0
25°	8717.0	8750.6	8780.4	8765.5
27.5°	8097.5	8108.7	8127.3	8105.0
30°	7272.9	7280.2	7287.8	7284.1
32.5°	6347.4	6343.6	6336.2	6328.7
35°	5410.8	5410.8	5414.5	5392.1
37.5°	4559.9	4556.2	4567.4	4556.2
40°	3746.5	3742.8	3757.7	3739.1
42.5°	2921.8	2933.0	2936.7	2936.7
45°	2197.9	2201.6	2205.3	2205.3
47.5°	1604.6	1608.3	1627.0	1604.6
50°	1134.4	1138.1	1141.8	1134.4
52.5°	750.0	753.8	750.0	738.8
55°	458.9	462.8	462.8	462.8
57.5°	246.2	250.1	250.1	246.2
60°	134.4	130.6	134.4	126.9
62.5°	71.0	78.3	74.6	67.1
65°	44.8	44.8	44.8	52.2
67.5°	37.3	29.8	33.6	26.1
70°	22.4	26.1	26.1	18.6
72.5°	18.6	18.6	18.6	22.4
75°	0.0	0.0	0.0	0.0
77.5°	7.5	7.5	7.5	3.7
80°	3.7	0.0	3.7	0.0
82.5°	3.7	3.7	7.5	3.7
85°	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)