

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: P248360

Luminaire Tested: **LD8B175D010 ER8B175840 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248360
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: LD8B175D010 ER8B175840 8LBDW0LI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 4000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19140.0 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

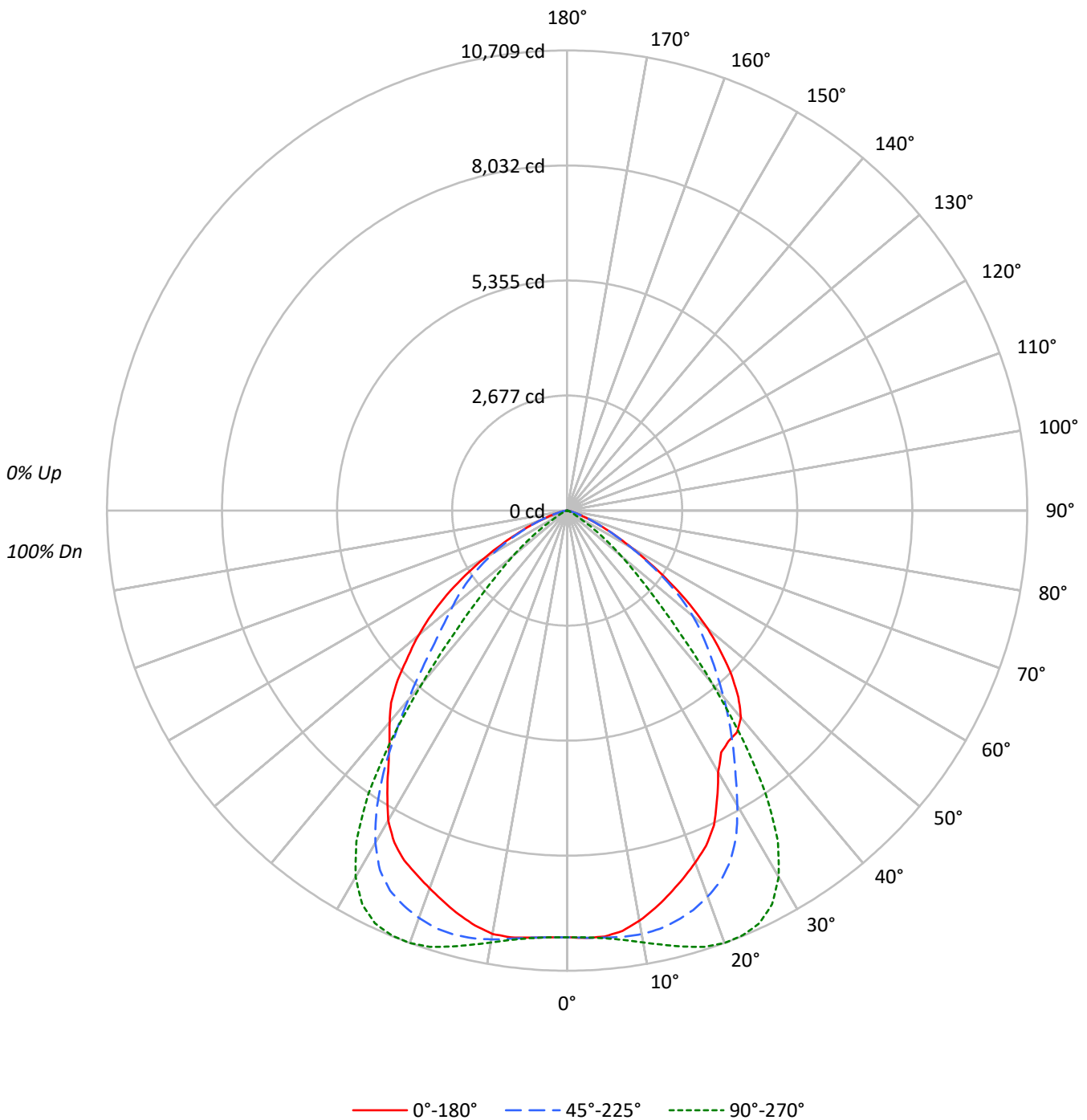
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	306180	306180	306180
5°	308003	309145	308817
10°	303476	319486	313214
15°	294605	335321	310756
20°	286054	351426	306981
25°	275071	360428	305557
30°	250333	350544	296497
35°	246603	303743	272792
40°	253306	210665	258607
45°	235808	127326	243165
50°	204537	78627	216679
55°	156967	41085	183886
60°	106934	16571	138788
65°	66522	8457	95745
70°	36109	5229	58450
75°	18836	2502	34539
80°	8435	2824	18717
85°	5626	1875	16806



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	954.9	5.0
10°-20°	2828.7	14.8
20°-30°	4315.5	22.5
30°-40°	4503.3	23.5
40°-50°	3382.5	17.7
50°-60°	2081.2	10.9
60°-70°	847.0	4.4
70°-80°	199.5	1.0
80°-90°	27.5	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°	8099.0	42.3
0°-40°	12602.3	65.8
0°-60°	18066.0	94.4
0°-90°	19140.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19140.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9929	9929	9929	9929	9929	
5°	9950	9977	9987	9977	9977	941
15°	9228	9876	10504	10214	9734	2600
25°	8085	8991	10593	9755	8981	3675
35°	6551	6736	8069	7458	7247	4136
45°	5407	4680	2920	4359	5576	4126
55°	2920	2772	764	2772	3420	2624
65°	912	922	116	1238	1312	951
75°	158	158	21	279	290	190
85°	16	16	5	37	48	22
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°	9929.2	9929.2	9929.2	9929.2	9929.2	9929.2	9929.2	9929.2	9929.2	9929.2	9929.2
2.5°	9955.6	9939.7	9955.6	9955.6	9960.9	9950.3	9955.6	9960.9	9950.3	9950.3	9950.3
5°	9950.3	9939.7	9950.3	9945.0	9955.6	9955.6	9966.2	9966.2	9976.6	9976.6	9992.5
7.5°	9866.0	9844.9	9866.0	9881.8	9892.3	9913.4	9939.7	9960.9	9981.9	10003.0	10029.4
10°	9692.0	9692.0	9707.9	9739.5	9771.1	9807.9	9855.4	9908.1	9960.9	10008.2	10055.7
12.5°	9476.0	9460.1	9491.7	9533.9	9581.4	9639.4	9713.2	9792.2	9876.5	9971.3	10045.2
15°	9228.3	9212.4	9249.3	9291.5	9349.5	9433.8	9523.5	9628.8	9750.0	9876.5	9997.8
17.5°	8975.3	8970.0	9006.9	9064.9	9112.4	9201.9	9317.9	9444.3	9581.4	9750.0	9908.1
20°	8717.1	8711.8	8748.7	8796.2	8859.3	8943.7	9059.6	9207.1	9370.5	9560.3	9744.7
22.5°	8448.2	8453.5	8485.1	8537.9	8590.6	8680.1	8801.3	8949.0	9128.1	9333.6	9539.2
25°	8084.6	8058.3	8100.4	8153.2	8242.7	8316.4	8432.5	8590.6	8775.0	8991.1	9233.6
27.5°	7557.5	7552.3	7589.3	7636.6	7715.6	7805.3	7931.8	8095.2	8290.1	8527.3	8764.4
30°	7030.5	7041.1	7056.9	7104.4	7157.0	7246.6	7373.1	7510.2	7694.6	7921.2	8174.2
32.5°	6672.1	6672.1	6693.3	6724.9	6761.8	6809.2	6898.8	6998.9	7141.3	7299.4	7483.8
35°	6550.9	6529.9	6550.9	6556.2	6561.5	6572.1	6587.8	6619.5	6666.9	6735.5	6803.9
37.5°	6498.3	6482.4	6482.4	6461.4	6435.0	6403.4	6361.2	6313.8	6261.2	6192.6	6139.9
40°	6292.7	6282.2	6271.6	6250.6	6192.6	6129.4	6060.8	5950.1	5828.9	5660.2	5491.7
42.5°	5897.5	5886.9	5881.6	5839.5	5786.7	5713.0	5633.9	5518.0	5365.2	5149.0	4906.6
45°	5407.3	5386.2	5370.5	5333.6	5296.6	5233.4	5159.6	5054.1	4901.3	4680.0	4390.1
47.5°	4838.1	4827.6	4822.3	4806.5	4769.7	4732.7	4685.3	4601.0	4463.9	4253.1	3952.7
50°	4263.6	4242.6	4253.1	4247.9	4232.0	4205.7	4174.0	4116.1	4010.6	3820.9	3546.9
52.5°	3604.8	3604.8	3599.7	3615.4	3620.7	3615.4	3620.7	3557.5	3467.9	3325.5	3093.6
55°	2919.7	2919.7	2935.5	2956.7	2977.7	2983.0	2977.7	2951.4	2888.1	2772.1	2566.6
57.5°	2276.7	2266.3	2297.9	2329.4	2350.6	2371.6	2355.8	2334.7	2297.9	2202.9	2044.8
60°	1733.9	1733.9	1755.0	1776.1	1797.1	1818.3	1813.0	1807.7	1776.1	1712.8	1586.4
62.5°	1275.4	1280.7	1280.7	1296.5	1317.5	1338.7	1354.4	1338.7	1322.8	1280.7	1196.3
65°	911.7	906.4	911.7	927.6	943.4	964.5	975.0	969.7	953.9	922.3	859.1
67.5°	611.4	606.1	627.1	632.4	643.0	664.1	658.8	664.1	658.8	632.4	579.8
70°	400.5	390.0	400.5	395.2	411.1	416.4	426.8	432.1	426.8	411.1	395.2
72.5°	247.7	242.4	247.7	253.0	258.3	263.5	274.0	274.0	268.7	258.3	237.1
75°	158.1	142.2	147.5	137.1	147.5	147.5	158.1	163.4	158.1	158.1	147.5
77.5°	94.9	94.9	94.9	94.9	94.9	94.9	94.9	100.2	105.4	94.9	89.6
80°	47.5	47.5	52.7	52.7	52.7	58.0	52.7	52.7	52.7	58.0	42.2
82.5°	36.9	31.6	31.6	31.6	36.9	31.6	31.6	31.6	31.6	31.6	31.6
85°	15.9	21.0	15.9	10.6	15.9	15.9	21.0	15.9	15.9	15.9	21.0
87.5°	5.3	5.3	0.0	0.0	0.0	5.3	0.0	5.3	5.3	10.6	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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	9929.2	9929.2	9929.2	9929.2	9929.2	9929.2	9929.2	9929.2	9929.2	9929.2	9929.2
2.5°	9955.6	9945.0	9945.0	9939.7	9950.3	9939.7	9945.0	9939.7	9939.7	9950.3	9939.7
5°	9992.5	9997.8	9987.2	9981.9	9997.8	9997.8	9997.8	9987.2	9987.2	9992.5	9987.2
7.5°	10045.2	10055.7	10060.9	10066.2	10076.8	10082.1	10082.1	10076.8	10071.5	10087.4	10066.2
10°	10103.1	10119.0	10150.6	10166.4	10192.7	10192.7	10203.3	10203.3	10192.7	10203.3	10198.0
12.5°	10082.1	10176.9	10229.6	10266.5	10303.4	10335.0	10345.6	10350.8	10345.6	10366.7	10345.6
15°	10119.0	10198.0	10282.4	10345.6	10414.0	10450.9	10461.5	10503.7	10514.2	10519.5	10487.9
17.5°	10060.9	10203.3	10292.8	10387.7	10487.9	10556.4	10619.6	10646.0	10651.3	10661.8	10619.6
20°	9929.2	10087.4	10224.3	10361.4	10477.3	10582.7	10635.4	10709.2	10688.2	10730.4	10672.3
22.5°	9750.0	9929.2	10103.1	10282.4	10403.6	10530.1	10640.7	10693.3	10719.8	10719.8	10656.5
25°	9465.4	9676.3	9866.0	10050.4	10234.9	10387.7	10514.2	10593.3	10609.1	10603.8	10530.1
27.5°	9022.7	9249.3	9470.7	9681.6	9908.1	10087.4	10234.9	10329.7	10356.1	10356.1	10277.1
30°	8411.4	8653.8	8869.9	9122.8	9354.8	9555.1	9760.6	9844.9	9892.3	9892.3	9802.8
32.5°	7684.0	7889.6	8089.9	8337.6	8590.6	8817.2	9012.2	9128.1	9186.1	9180.8	9101.8
35°	6893.6	6993.6	7146.6	7331.0	7557.5	7768.4	7958.1	8068.8	8168.9	8163.6	8089.9
37.5°	6102.9	6076.6	6092.5	6161.0	6303.2	6450.8	6598.4	6703.9	6788.1	6825.1	6809.2
40°	5328.3	5191.2	5059.4	5012.1	5022.5	5075.3	5154.3	5233.4	5328.3	5375.7	5396.8
42.5°	4632.6	4400.7	4168.7	3994.9	3894.7	3863.1	3900.0	3926.3	3984.3	4052.8	4121.4
45°	4073.9	3763.0	3457.3	3188.5	3019.9	2919.7	2898.7	2919.7	2951.4	3019.9	3109.5
47.5°	3615.4	3251.7	2909.2	2608.8	2361.0	2229.4	2192.5	2181.9	2213.5	2276.7	2397.9
50°	3209.6	2845.9	2466.5	2118.6	1860.4	1712.8	1660.2	1639.0	1675.9	1723.4	1834.0
52.5°	2766.9	2408.5	2018.5	1681.2	1412.4	1259.6	1201.6	1170.0	1191.0	1254.3	1365.0
55°	2287.3	1955.2	1602.1	1254.3	996.1	853.8	785.2	764.2	785.2	853.8	964.5
57.5°	1807.7	1528.4	1233.2	906.4	674.6	532.3	463.7	442.7	500.7	527.0	643.0
60°	1412.4	1185.9	932.9	664.1	463.7	353.1	284.6	268.7	295.2	342.5	437.4
62.5°	1059.4	917.0	716.7	474.3	342.5	226.6	189.7	174.0	189.7	226.6	300.5
65°	769.5	658.8	500.7	347.8	231.9	168.7	126.5	115.9	131.8	158.1	221.4
67.5°	527.0	442.7	347.8	242.4	158.1	105.4	89.6	89.6	94.9	115.9	163.4
70°	342.5	289.9	221.4	158.1	105.4	79.0	68.5	58.0	68.5	84.3	110.6
72.5°	216.1	184.4	142.2	110.6	79.0	58.0	47.5	42.2	52.7	63.2	84.3
75°	131.8	100.2	73.8	58.0	42.2	42.2	42.2	21.0	26.3	42.2	52.7
77.5°	79.0	68.5	58.0	47.5	36.9	21.0	21.0	21.0	26.3	31.6	47.5
80°	42.2	36.9	26.3	26.3	21.0	15.9	21.0	15.9	10.6	26.3	31.6
82.5°	26.3	21.0	21.0	21.0	26.3	10.6	15.9	10.6	15.9	21.0	15.9
85°	15.9	15.9	15.9	10.6	26.3	10.6	10.6	5.3	5.3	10.6	10.6
87.5°	0.0	5.3	5.3	0.0	5.3	0.0	5.3	5.3	5.3	5.3	5.3
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°	9929.2	9929.2	9929.2	9929.2	9929.2	9929.2	9929.2	9929.2	9929.2	9929.2	9929.2
2.5°	9945.0	9939.7	9945.0	9939.7	9939.7	9939.7	9945.0	9945.0	9939.7	9939.7	9950.3
5°	9987.2	9987.2	9987.2	9981.9	9976.6	9976.6	9987.2	9987.2	9971.3	9987.2	9987.2
7.5°	10076.8	10060.9	10076.8	10055.7	10045.2	10050.4	10055.7	10045.2	10034.6	10039.9	10039.9
10°	10192.7	10176.9	10176.9	10161.1	10145.3	10134.7	10124.3	10097.8	10071.5	10066.2	10045.2
12.5°	10329.7	10303.4	10287.6	10255.9	10229.6	10192.7	10161.1	10119.0	10066.2	10029.4	9992.5
15°	10466.8	10424.6	10387.7	10335.0	10277.1	10213.8	10145.3	10076.8	9992.5	9918.7	9855.4
17.5°	10577.4	10519.5	10450.9	10366.7	10282.4	10187.5	10087.4	9987.2	9866.0	9771.1	9697.3
20°	10614.3	10530.1	10440.5	10329.7	10219.0	10087.4	9960.9	9829.1	9692.0	9591.9	9507.6
22.5°	10567.0	10466.8	10356.1	10240.2	10092.5	9950.3	9802.8	9649.8	9528.6	9391.7	9312.6
25°	10435.2	10314.0	10192.7	10055.7	9913.4	9755.3	9597.2	9439.1	9291.5	9217.7	9117.6
27.5°	10166.4	10034.6	9902.8	9760.6	9597.2	9439.1	9275.7	9122.8	8996.4	8896.2	8838.3
30°	9692.0	9539.2	9386.4	9233.6	9091.2	8927.8	8775.0	8648.5	8522.0	8442.9	8385.0
32.5°	8964.7	8827.7	8674.9	8527.3	8395.6	8258.5	8132.0	8021.4	7931.8	7879.0	7836.9
35°	7984.5	7847.4	7731.5	7626.1	7515.4	7457.5	7378.4	7315.1	7278.2	7257.2	7251.9
37.5°	6751.2	6672.1	6635.3	6614.2	6593.1	6577.4	6587.8	6614.2	6635.3	6672.1	6714.3
40°	5433.7	5502.1	5523.3	5597.0	5665.5	5755.1	5855.3	5971.3	6066.0	6187.3	6271.6
42.5°	4232.0	4358.6	4506.1	4664.2	4832.8	4996.2	5196.5	5380.9	5549.6	5702.4	5834.2
45°	3251.7	3446.7	3668.1	3894.7	4121.4	4358.6	4601.0	4827.6	5027.8	5191.2	5328.3
47.5°	2535.0	2751.1	3035.7	3315.0	3589.1	3868.4	4137.1	4374.3	4543.0	4701.1	4822.3
50°	2008.0	2255.7	2566.6	2888.1	3188.5	3483.6	3768.2	3989.6	4158.3	4284.8	4374.3
52.5°	1554.7	1849.9	2166.1	2503.4	2824.9	3146.4	3409.8	3615.4	3752.5	3863.1	3931.6
55°	1159.4	1449.3	1786.7	2134.5	2461.2	2772.1	3019.9	3199.1	3320.3	3383.5	3420.4
57.5°	838.0	1101.5	1438.8	1786.7	2081.7	2376.9	2577.2	2740.6	2809.0	2845.9	2861.8
60°	611.4	853.8	1154.2	1454.6	1733.9	1971.1	2145.0	2255.7	2308.4	2329.4	2324.2
62.5°	448.0	658.8	917.0	1170.0	1396.6	1591.6	1728.6	1802.4	1828.8	1839.3	1823.6
65°	342.5	505.9	727.3	922.3	1096.2	1238.5	1338.7	1386.1	1401.9	1396.6	1386.1
67.5°	253.0	379.5	542.9	690.4	816.9	927.6	980.3	1022.5	1032.9	1017.2	1001.3
70°	179.2	279.3	395.2	495.4	590.2	653.5	711.4	716.7	716.7	711.4	701.0
72.5°	126.5	195.0	268.7	337.3	395.2	442.7	463.7	479.6	474.3	469.0	458.6
75°	84.3	121.2	195.0	210.8	263.5	279.3	300.5	300.5	305.6	289.9	289.9
77.5°	52.7	84.3	115.9	137.1	158.1	179.2	189.7	189.7	195.0	189.7	189.7
80°	31.6	52.7	63.2	94.9	94.9	110.6	115.9	121.2	110.6	126.5	110.6
82.5°	21.0	31.6	47.5	47.5	58.0	68.5	68.5	73.8	73.8	68.5	68.5
85°	15.9	21.0	26.3	31.6	31.6	36.9	31.6	31.6	36.9	42.2	36.9
87.5°	5.3	10.6	5.3	10.6	10.6	21.0	15.9	15.9	15.9	21.0	21.0
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: P248360

CATALOG NUMBER: LD8B175D010 ER8B175840 8LBDW0LI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	9929.2	9929.2	9929.2	9929.2
2.5°	9939.7	9945.0	9939.7	9939.7
5°	9987.2	9981.9	9987.2	9976.6
7.5°	10024.1	10024.1	10018.8	10018.8
10°	10024.1	10003.0	10003.0	10003.0
12.5°	9945.0	9918.7	9902.8	9892.3
15°	9807.9	9760.6	9739.5	9734.2
17.5°	9628.8	9586.7	9560.3	9544.5
20°	9423.3	9381.1	9349.5	9354.8
22.5°	9244.0	9196.7	9175.5	9165.0
25°	9064.9	9006.9	8991.1	8980.6
27.5°	8775.0	8743.4	8727.6	8711.8
30°	8332.3	8316.4	8290.1	8327.0
32.5°	7821.1	7794.7	7773.7	7789.5
35°	7257.2	7241.3	7257.2	7246.6
37.5°	6740.7	6756.5	6777.6	6788.1
40°	6334.9	6392.8	6414.0	6424.4
42.5°	5929.1	5997.6	6039.7	6066.0
45°	5428.4	5496.8	5544.3	5576.0
47.5°	4911.9	4969.9	5017.3	5012.1
50°	4442.9	4474.5	4495.5	4516.7
52.5°	3968.5	3968.5	3973.8	3973.8
55°	3431.0	3420.4	3415.1	3420.4
57.5°	2840.6	2830.2	2824.9	2809.0
60°	2303.1	2271.5	2250.4	2250.4
62.5°	1802.4	1765.5	1749.8	1744.5
65°	1354.4	1349.1	1317.5	1312.2
67.5°	980.3	959.2	938.1	943.4
70°	690.4	658.8	658.8	648.3
72.5°	448.0	432.1	426.8	426.8
75°	279.3	279.3	268.7	289.9
77.5°	184.4	184.4	179.2	184.4
80°	110.6	110.6	110.6	105.4
82.5°	68.5	73.8	68.5	68.5
85°	36.9	42.2	31.6	47.5
87.5°	21.0	26.3	21.0	26.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)