

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: P248414

Luminaire Tested: **LD8B175D010 ER8B175950 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248414
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 ER8B175950 8LBDW0LI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 5000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17766.0 lumens
Efficiency: N/A
Efficacy: 100.3 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

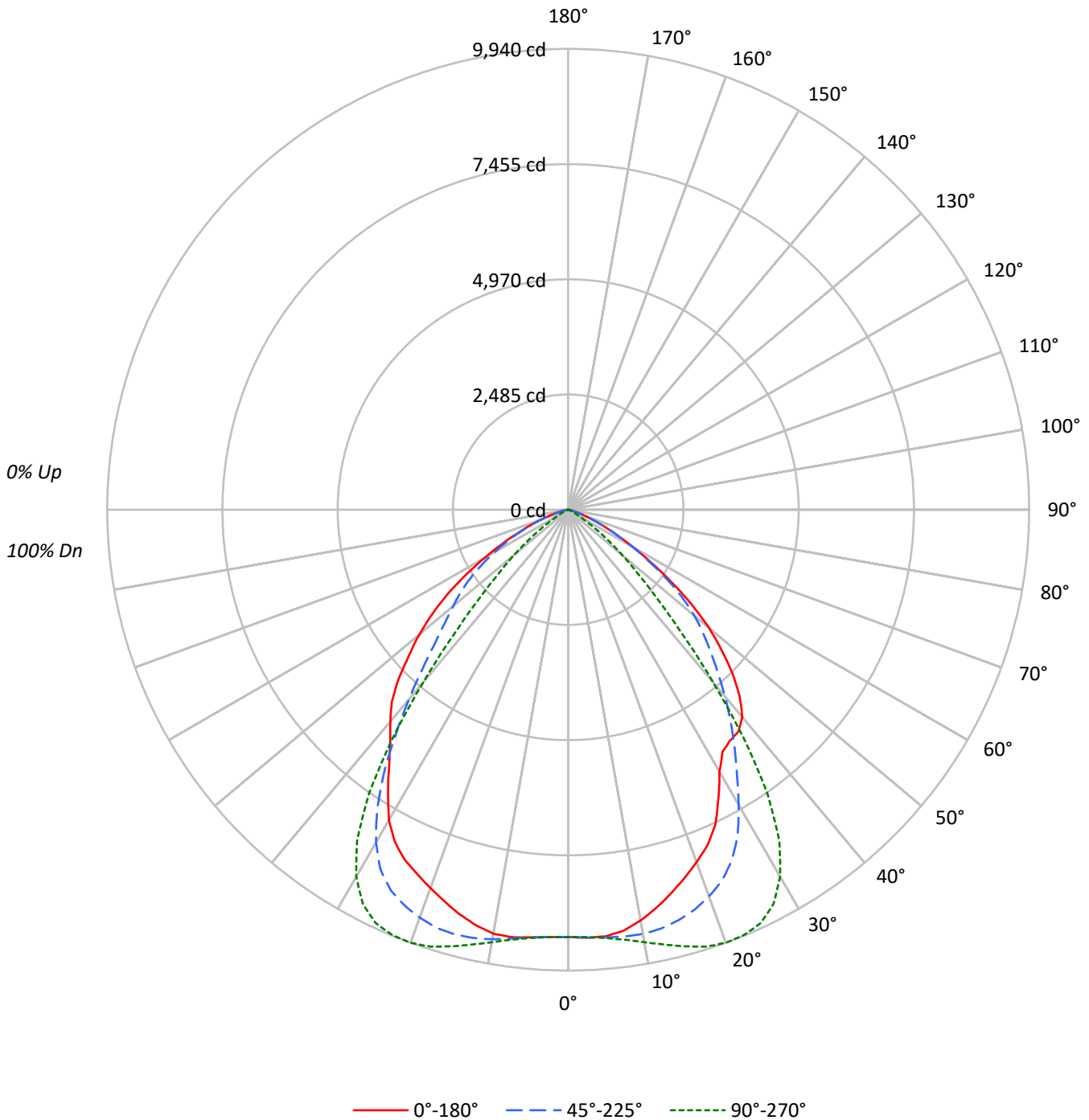
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	284200	284200	284200
5°	285892	286951	286647
10°	281692	296550	290732
15°	273455	311247	288447
20°	265519	326197	284942
25°	255324	334552	283622
30°	232362	325381	275211
35°	228903	281940	253210
40°	235123	195542	240042
45°	218883	118185	225708
50°	189857	72986	201121
55°	145699	38133	170687
60°	99262	15387	128822
65°	61750	7851	88871
70°	33521	4860	54249
75°	17478	2323	32061
80°	7813	2610	17367
85°	5201	1734	15568



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	886.3	5.0
10°-20°	2625.6	14.8
20°-30°	4005.7	22.5
30°-40°	4180.0	23.5
40°-50°	3139.7	17.7
50°-60°	1931.8	10.9
60°-70°	786.2	4.4
70°-80°	185.2	1.0
80°-90°	25.5	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°	7517.6	42.3
0°-40°	11697.6	65.8
0°-60°	16769.1	94.4
0°-90°	17766.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17766.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9216	9216	9216	9216	9216	
5°	9236	9260	9270	9260	9260	874
15°	8566	9168	9750	9480	9035	2413
25°	7504	8346	9833	9055	8336	3412
35°	6081	6252	7490	6922	6726	3839
45°	5019	4344	2710	4046	5176	3829
55°	2710	2573	709	2573	3175	2436
65°	846	856	108	1150	1218	883
75°	147	147	20	259	269	177
85°	15	15	5	34	44	21
90°	0	0	0	0	0	



TEST NUMBER: P248414

CATALOG NUMBER: LD8B175D010 ER8B175950 8LBDW01I

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	9216.4	9216.4	9216.4	9216.4	9216.4	9216.4	9216.4	9216.4	9216.4	9216.4	9216.4
2.5°	9240.9	9226.2	9240.9	9240.9	9245.8	9236.0	9240.9	9245.8	9236.0	9236.0	9236.0
5°	9236.0	9226.2	9236.0	9231.1	9240.9	9240.9	9250.7	9250.7	9260.4	9260.4	9275.1
7.5°	9157.7	9138.2	9157.7	9172.4	9182.1	9201.8	9226.2	9245.8	9265.3	9285.0	9309.4
10°	8996.3	8996.3	9011.0	9040.3	9069.6	9103.9	9147.9	9196.9	9245.8	9289.8	9333.8
12.5°	8795.8	8781.0	8810.4	8849.5	8893.5	8947.4	9015.9	9089.3	9167.5	9255.5	9324.1
15°	8565.8	8551.1	8585.3	8624.5	8678.3	8756.6	8839.8	8937.6	9050.1	9167.5	9280.1
17.5°	8331.0	8326.1	8360.3	8414.2	8458.2	8541.3	8649.0	8766.3	8893.5	9050.1	9196.9
20°	8091.3	8086.4	8120.7	8164.7	8223.4	8301.6	8409.3	8546.2	8697.8	8874.0	9045.2
22.5°	7841.8	7846.7	7876.0	7925.0	7973.9	8057.0	8169.5	8306.5	8472.8	8663.6	8854.4
25°	7504.2	7479.8	7518.9	7567.9	7651.0	7719.4	7827.2	7973.9	8145.1	8345.7	8570.7
27.5°	7015.0	7010.1	7044.5	7088.4	7161.8	7245.0	7362.4	7514.0	7695.0	7915.1	8135.3
30°	6525.8	6535.6	6550.3	6594.4	6643.2	6726.4	6843.8	6971.1	7142.2	7352.6	7587.4
32.5°	6193.2	6193.2	6212.8	6242.1	6276.4	6320.4	6403.6	6496.5	6628.6	6775.4	6946.5
35°	6080.7	6061.1	6080.7	6085.6	6090.5	6100.3	6114.9	6144.3	6188.3	6251.9	6315.5
37.5°	6031.8	6017.1	6017.1	5997.6	5973.0	5943.7	5904.6	5860.5	5811.7	5748.0	5699.2
40°	5841.0	5831.2	5821.4	5801.9	5748.0	5689.4	5625.7	5523.0	5410.5	5253.9	5097.4
42.5°	5474.1	5464.3	5459.4	5420.3	5371.3	5302.9	5229.5	5121.9	4980.0	4779.4	4554.4
45°	5019.2	4999.5	4984.9	4950.7	4916.4	4857.7	4789.2	4691.3	4549.5	4344.1	4075.0
47.5°	4490.8	4481.0	4476.1	4461.5	4427.3	4392.9	4349.0	4270.7	4143.5	3947.8	3669.0
50°	3957.6	3938.1	3947.8	3943.0	3928.2	3903.8	3874.4	3820.6	3722.7	3546.6	3292.3
52.5°	3346.0	3346.0	3341.2	3355.8	3360.8	3355.8	3360.8	3302.1	3218.9	3086.8	2871.6
55°	2710.1	2710.1	2724.8	2744.4	2763.9	2768.8	2763.9	2739.5	2680.8	2573.1	2382.3
57.5°	2113.3	2103.6	2132.9	2162.2	2181.8	2201.4	2186.6	2167.1	2132.9	2044.8	1898.0
60°	1609.5	1609.5	1629.0	1648.6	1668.1	1687.7	1682.8	1677.9	1648.6	1589.8	1472.5
62.5°	1183.8	1188.7	1188.7	1203.4	1223.0	1242.6	1257.2	1242.6	1227.9	1188.7	1110.4
65°	846.3	841.4	846.3	861.0	875.7	895.2	905.0	900.1	885.4	856.1	797.4
67.5°	567.5	562.6	582.1	587.0	596.8	616.4	611.5	616.4	611.5	587.0	538.2
70°	371.8	362.0	371.8	366.9	381.6	386.5	396.2	401.1	396.2	381.6	366.9
72.5°	229.9	225.0	229.9	234.8	239.8	244.5	254.4	254.4	249.5	239.8	220.1
75°	146.7	132.0	136.9	127.2	136.9	136.9	146.7	151.7	146.7	146.7	136.9
77.5°	88.1	88.1	88.1	88.1	88.1	88.1	88.1	93.0	97.8	88.1	83.2
80°	44.0	44.0	49.0	49.0	49.0	53.9	49.0	49.0	49.0	53.9	39.1
82.5°	34.2	29.3	29.3	29.3	34.2	29.3	29.3	29.3	29.3	29.3	29.3
85°	14.7	19.5	14.7	9.8	14.7	14.7	19.5	14.7	14.7	14.7	19.5
87.5°	4.9	4.9	0.0	0.0	0.0	4.9	0.0	4.9	4.9	9.8	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°	9216.4	9216.4	9216.4	9216.4	9216.4	9216.4	9216.4	9216.4	9216.4	9216.4	9216.4
2.5°	9240.9	9231.1	9231.1	9226.2	9236.0	9226.2	9231.1	9226.2	9226.2	9236.0	9226.2
5°	9275.1	9280.1	9270.2	9265.3	9280.1	9280.1	9280.1	9270.2	9270.2	9275.1	9270.2
7.5°	9324.1	9333.8	9338.7	9343.6	9353.4	9358.3	9358.3	9353.4	9348.5	9363.2	9343.6
10°	9377.8	9392.6	9421.9	9436.6	9461.0	9461.0	9470.8	9470.8	9461.0	9470.8	9465.9
12.5°	9358.3	9446.3	9495.3	9529.5	9563.7	9593.1	9602.9	9607.8	9602.9	9622.5	9602.9
15°	9392.6	9465.9	9544.2	9602.9	9666.4	9700.7	9710.5	9749.6	9759.4	9764.3	9735.0
17.5°	9338.7	9470.8	9553.9	9642.0	9735.0	9798.6	9857.2	9881.8	9886.7	9896.4	9857.2
20°	9216.4	9363.2	9490.4	9617.6	9725.2	9823.0	9872.0	9940.4	9920.9	9960.1	9906.2
22.5°	9050.1	9216.4	9377.8	9544.2	9656.7	9774.2	9876.9	9925.7	9950.2	9950.2	9891.5
25°	8785.9	8981.6	9157.7	9328.9	9500.2	9642.0	9759.4	9832.8	9847.5	9842.6	9774.2
27.5°	8375.0	8585.3	8790.8	8986.6	9196.9	9363.2	9500.2	9588.2	9612.7	9612.7	9539.3
30°	7807.5	8032.6	8233.2	8467.9	8683.2	8869.1	9059.9	9138.2	9182.1	9182.1	9099.1
32.5°	7132.4	7323.2	7509.1	7739.1	7973.9	8184.2	8365.2	8472.8	8526.7	8521.8	8448.4
35°	6398.7	6491.6	6633.5	6804.7	7015.0	7210.7	7386.8	7489.6	7582.5	7577.6	7509.1
37.5°	5664.8	5640.4	5655.1	5718.7	5850.7	5987.8	6124.7	6222.6	6300.8	6335.1	6320.4
40°	4945.8	4818.6	4696.2	4652.3	4662.0	4710.9	4784.3	4857.7	4945.8	4989.8	5009.4
42.5°	4300.0	4084.8	3869.5	3708.1	3615.1	3585.8	3620.0	3644.4	3698.3	3761.9	3825.5
45°	3781.5	3492.9	3209.1	2959.6	2803.1	2710.1	2690.6	2710.1	2739.5	2803.1	2886.3
47.5°	3355.8	3018.3	2700.4	2421.5	2191.5	2069.3	2035.1	2025.3	2054.6	2113.3	2225.8
50°	2979.2	2641.6	2289.5	1966.5	1726.9	1589.8	1541.0	1521.4	1555.6	1599.6	1702.3
52.5°	2568.2	2235.6	1873.6	1560.5	1311.0	1169.2	1115.3	1086.0	1105.5	1164.3	1267.0
55°	2123.1	1814.9	1487.1	1164.3	924.5	792.5	728.8	709.3	728.8	792.5	895.2
57.5°	1677.9	1418.7	1144.7	841.4	626.1	494.1	430.4	410.9	464.8	489.2	596.8
60°	1311.0	1100.7	865.9	616.4	430.4	327.7	264.2	249.5	274.0	317.9	406.0
62.5°	983.3	851.2	665.3	440.2	317.9	210.3	176.1	161.5	176.1	210.3	278.9
65°	714.2	611.5	464.8	322.8	215.2	156.6	117.4	107.6	122.3	146.7	205.5
67.5°	489.2	410.9	322.8	225.0	146.7	97.8	83.2	83.2	88.1	107.6	151.7
70°	317.9	269.1	205.5	146.7	97.8	73.4	63.6	53.9	63.6	78.3	102.7
72.5°	200.6	171.2	132.0	102.7	73.4	53.9	44.0	39.1	49.0	58.7	78.3
75°	122.3	93.0	68.5	53.9	39.1	39.1	39.1	19.5	24.4	39.1	49.0
77.5°	73.4	63.6	53.9	44.0	34.2	19.5	19.5	19.5	24.4	29.3	44.0
80°	39.1	34.2	24.4	24.4	19.5	14.7	19.5	14.7	9.8	24.4	29.3
82.5°	24.4	19.5	19.5	19.5	24.4	9.8	14.7	9.8	14.7	19.5	14.7
85°	14.7	14.7	14.7	9.8	24.4	9.8	9.8	4.9	4.9	9.8	9.8
87.5°	0.0	4.9	4.9	0.0	4.9	0.0	4.9	4.9	4.9	4.9	4.9
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°	9216.4	9216.4	9216.4	9216.4	9216.4	9216.4	9216.4	9216.4	9216.4	9216.4	9216.4
2.5°	9231.1	9226.2	9231.1	9226.2	9226.2	9226.2	9231.1	9231.1	9226.2	9226.2	9236.0
5°	9270.2	9270.2	9270.2	9265.3	9260.4	9260.4	9270.2	9270.2	9255.5	9270.2	9270.2
7.5°	9353.4	9338.7	9353.4	9333.8	9324.1	9328.9	9333.8	9324.1	9314.3	9319.2	9319.2
10°	9461.0	9446.3	9446.3	9431.7	9417.0	9407.2	9397.5	9372.9	9348.5	9343.6	9324.1
12.5°	9588.2	9563.7	9549.1	9519.7	9495.3	9461.0	9431.7	9392.6	9343.6	9309.4	9275.1
15°	9715.4	9676.3	9642.0	9593.1	9539.3	9480.5	9417.0	9353.4	9275.1	9206.7	9147.9
17.5°	9818.1	9764.3	9700.7	9622.5	9544.2	9456.1	9363.2	9270.2	9157.7	9069.6	9001.2
20°	9852.3	9774.2	9691.0	9588.2	9485.5	9363.2	9245.8	9123.5	8996.3	8903.4	8825.1
22.5°	9808.4	9715.4	9612.7	9505.1	9368.0	9236.0	9099.1	8957.1	8844.6	8717.5	8644.1
25°	9686.1	9573.6	9461.0	9333.8	9201.8	9055.0	8908.3	8761.5	8624.5	8556.0	8463.1
27.5°	9436.6	9314.3	9192.0	9059.9	8908.3	8761.5	8609.9	8467.9	8350.6	8257.6	8203.8
30°	8996.3	8854.4	8712.6	8570.7	8438.6	8286.9	8145.1	8027.7	7910.2	7836.9	7783.1
32.5°	8321.2	8194.0	8052.2	7915.1	7792.9	7665.7	7548.3	7445.6	7362.4	7313.4	7274.3
35°	7411.3	7284.1	7176.5	7078.7	6975.9	6922.1	6848.7	6790.0	6755.7	6736.2	6731.3
37.5°	6266.5	6193.2	6158.9	6139.4	6119.8	6105.2	6114.9	6139.4	6158.9	6193.2	6232.3
40°	5043.6	5107.1	5126.8	5195.2	5258.8	5342.0	5435.0	5542.6	5630.6	5743.1	5821.4
42.5°	3928.2	4045.7	4182.6	4329.4	4485.9	4637.6	4823.5	4994.6	5151.2	5293.0	5415.4
45°	3018.3	3199.3	3404.8	3615.1	3825.5	4045.7	4270.7	4481.0	4666.9	4818.6	4945.8
47.5°	2353.0	2553.6	2817.8	3077.1	3331.4	3590.7	3840.1	4060.3	4216.8	4363.6	4476.1
50°	1863.8	2093.8	2382.3	2680.8	2959.6	3233.5	3497.7	3703.2	3859.8	3977.2	4060.3
52.5°	1443.1	1717.1	2010.6	2323.7	2622.1	2920.5	3165.1	3355.8	3483.1	3585.8	3649.3
55°	1076.2	1345.3	1658.4	1981.2	2284.6	2573.1	2803.1	2969.5	3082.0	3140.6	3174.9
57.5°	777.8	1022.5	1335.5	1658.4	1932.3	2206.3	2392.2	2543.8	2607.4	2641.6	2656.3
60°	567.5	792.5	1071.3	1350.2	1609.5	1829.6	1991.1	2093.8	2142.7	2162.2	2157.3
62.5°	415.8	611.5	851.2	1086.0	1296.3	1477.3	1604.5	1673.0	1697.6	1707.3	1692.6
65°	317.9	469.6	675.1	856.1	1017.5	1149.6	1242.6	1286.6	1301.2	1296.3	1286.6
67.5°	234.8	352.3	503.9	640.9	758.3	861.0	909.9	949.1	958.8	944.2	929.5
70°	166.4	259.3	366.9	459.9	547.9	606.6	660.4	665.3	665.3	660.4	650.7
72.5°	117.4	181.0	249.5	313.1	366.9	410.9	430.4	445.2	440.2	435.3	425.6
75°	78.3	112.5	181.0	195.7	244.5	259.3	278.9	278.9	283.7	269.1	269.1
77.5°	49.0	78.3	107.6	127.2	146.7	166.4	176.1	176.1	181.0	176.1	176.1
80°	29.3	49.0	58.7	88.1	88.1	102.7	107.6	112.5	102.7	117.4	102.7
82.5°	19.5	29.3	44.0	44.0	53.9	63.6	63.6	68.5	68.5	63.6	63.6
85°	14.7	19.5	24.4	29.3	29.3	34.2	29.3	29.3	34.2	39.1	34.2
87.5°	4.9	9.8	4.9	9.8	9.8	19.5	14.7	14.7	14.7	19.5	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: P248414

CATALOG NUMBER: LD8B175D010 ER8B175950 8LBDW0LI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	9216.4	9216.4	9216.4	9216.4
2.5°	9226.2	9231.1	9226.2	9226.2
5°	9270.2	9265.3	9270.2	9260.4
7.5°	9304.5	9304.5	9299.6	9299.6
10°	9304.5	9285.0	9285.0	9285.0
12.5°	9231.1	9206.7	9192.0	9182.1
15°	9103.9	9059.9	9040.3	9035.4
17.5°	8937.6	8898.5	8874.0	8859.3
20°	8746.8	8707.7	8678.3	8683.2
22.5°	8580.4	8536.5	8516.9	8507.0
25°	8414.2	8360.3	8345.7	8335.9
27.5°	8145.1	8115.8	8101.0	8086.4
30°	7734.2	7719.4	7695.0	7729.2
32.5°	7259.7	7235.1	7215.6	7230.3
35°	6736.2	6721.5	6736.2	6726.4
37.5°	6256.8	6271.4	6291.1	6300.8
40°	5880.2	5933.9	5953.5	5963.2
42.5°	5503.5	5567.0	5606.2	5630.6
45°	5038.7	5102.2	5146.3	5175.7
47.5°	4559.3	4613.2	4657.1	4652.3
50°	4123.9	4153.3	4172.8	4192.4
52.5°	3683.6	3683.6	3688.5	3688.5
55°	3184.7	3174.9	3170.0	3174.9
57.5°	2636.7	2627.0	2622.1	2607.4
60°	2137.8	2108.5	2088.8	2088.8
62.5°	1673.0	1638.8	1624.2	1619.3
65°	1257.2	1252.3	1223.0	1218.0
67.5°	909.9	890.3	870.8	875.7
70°	640.9	611.5	611.5	601.7
72.5°	415.8	401.1	396.2	396.2
75°	259.3	259.3	249.5	269.1
77.5°	171.2	171.2	166.4	171.2
80°	102.7	102.7	102.7	97.8
82.5°	63.6	68.5	63.6	63.6
85°	34.2	39.1	29.3	44.0
87.5°	19.5	24.4	19.5	24.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)