

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: P#

Luminaire Tested: **LD4C75D010 EX4C759050 4LBSQLWWLI**

Issue Date: 2/18/2022



Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P219529)
Test Lab: INNOVATION CENTER
Issue Date: 2/18/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C75D010 EX4C759050 4LBSQLWWLI
Description: 4 INCH 7500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBSQLWW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

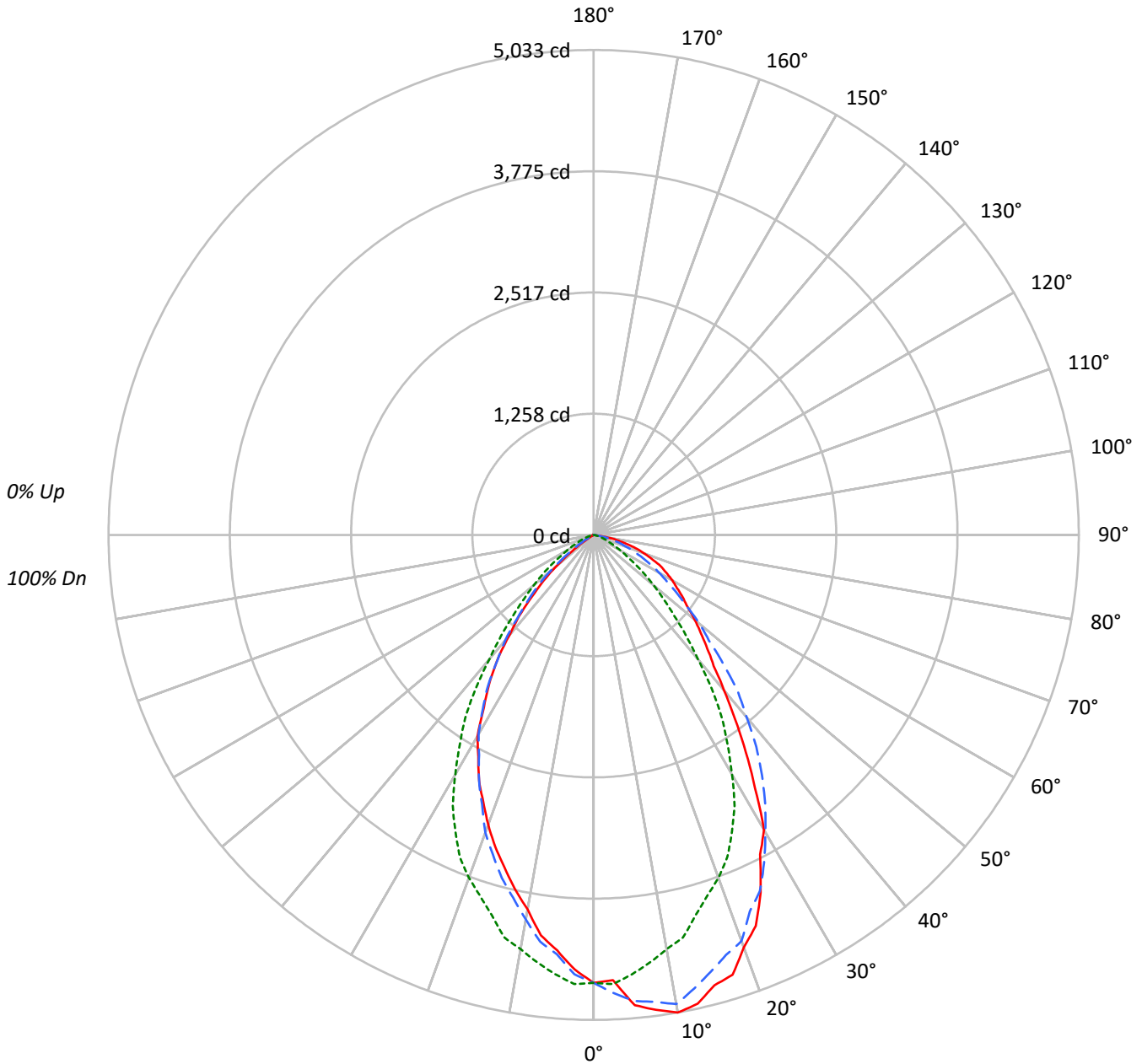
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6663.0 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1 / 1.06
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 81.5
Input Voltage (V):
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: P#
CATALOG NUMBER: LD4C75D010 EX4C759050 4LBSQLWWLI

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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																			
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80																			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72																			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64																			
5	85	75	67	62	83	74	67	62	72	66	61	70	65	60	68	64	60	58																			
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	54	53																			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48																			
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44																			
9	66	55	48	43	65	54	47	43	53	47	43	52	46	42	51	46	42	41																			
10	62	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	448509	448509	448509
5°	474524	443220	419470
10°	493120	427593	386619
15°	483261	408091	356876
20°	467580	388587	328498
25°	436150	361359	299663
30°	393710	319808	268278
35°	324314	273770	222566
40°	264674	211319	171302
45°	227404	160486	123206
50°	205816	122160	77817
55°	189403	88115	28144
60°	181785	60209	4303
65°	175595	40731	1301
70°	157222	28268	1608
75°	128879	14577	0
80°	80570	6168	0
85°	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: LD4C75D010 EX4C759050 4LBSQLWWLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	435.5	6.5
10°-20°	1173.3	17.6
20°-30°	1566.8	23.5
30°-40°	1487.4	22.3
40°-50°	1028.1	15.4
50°-60°	568.1	8.5
60°-70°	282.1	4.2
70°-80°	111.1	1.7
80°-90°	10.6	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°	3175.7	47.7
0°-40°	4663.0	70.0
0°-60°	6259.2	93.9
0°-90°	6663.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6663.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4648	4648	4648	4648	4648	
5°	4899	4855	4576	4370	4331	469
15°	4838	4693	4085	3684	3573	1369
25°	4097	4080	3394	2815	2815	1868
35°	2753	3043	2324	1912	1890	1725
45°	1666	1912	1176	964	903	1300
55°	1126	1059	524	268	167	1013
65°	769	557	178	6	6	746
75°	346	212	39	0	0	368
85°	0	6	0	0	0	32
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: LD4C75D010 EX4C759050 4LBSQLWWLI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	4648.3	4648.3	4648.3	4648.3	4648.3	4648.3	4648.3	4648.3	4648.3	4648.3	4648.3
2.5°	4626.0	4754.2	4765.3	4754.2	4771.0	4765.3	4793.3	4765.3	4798.9	4748.7	4759.8
5°	4899.2	4848.9	4954.8	4899.2	4899.2	4893.7	4876.9	4871.2	4893.7	4821.2	4854.6
7.5°	4971.7	5044.2	5138.9	5021.9	5027.3	5027.3	4993.9	4982.8	4982.8	4848.9	4888.0
10°	5033.0	4988.3	5038.5	4993.9	5033.0	5027.3	5049.6	4977.1	5027.3	4949.4	4943.7
12.5°	4982.8	4966.0	5033.0	4960.5	4938.2	4943.7	4916.0	4899.2	4916.0	4826.7	4821.2
15°	4837.8	4854.6	4954.8	4876.9	4865.7	4854.6	4821.2	4765.3	4810.1	4687.3	4693.0
17.5°	4787.8	4759.8	4776.7	4709.6	4726.4	4715.3	4709.6	4659.6	4648.3	4570.3	4570.3
20°	4553.7	4614.9	4614.9	4570.3	4570.3	4564.8	4492.4	4536.9	4486.7	4464.4	4486.7
22.5°	4391.9	4397.6	4397.6	4358.5	4364.2	4341.9	4302.8	4274.9	4302.8	4274.9	4230.3
25°	4096.7	4107.8	4174.6	4102.1	4091.0	4113.3	4079.9	4063.1	4057.6	3990.8	4079.9
27.5°	3739.9	3851.2	3845.8	3817.8	3851.2	3806.7	3790.1	3795.6	3812.4	3806.7	3829.0
30°	3533.7	3550.3	3567.2	3544.9	3550.3	3533.7	3533.7	3539.2	3583.7	3567.2	3561.5
32.5°	3115.6	3171.3	3216.0	3216.0	3221.5	3238.3	3232.6	3349.7	3377.6	3321.9	3310.8
35°	2753.3	2792.4	2831.3	2837.0	2909.4	2914.9	2920.6	2954.0	3031.9	3048.8	3043.1
37.5°	2407.9	2446.7	2457.9	2508.1	2547.2	2586.1	2630.8	2675.4	2742.2	2797.9	2770.1
40°	2101.3	2117.9	2145.8	2168.1	2246.1	2246.1	2268.3	2357.6	2430.1	2474.7	2469.0
42.5°	1844.9	1850.4	1872.7	1911.8	1984.3	1967.4	1984.3	2045.6	2151.3	2157.0	2218.3
45°	1666.5	1660.9	1677.7	1683.1	1727.9	1750.2	1761.3	1805.8	1894.9	1906.1	1911.8
47.5°	1504.9	1499.3	1527.2	1538.4	1555.0	1577.2	1577.2	1582.9	1616.3	1644.3	1622.0
50°	1371.1	1371.1	1371.1	1382.2	1410.2	1404.5	1410.2	1432.5	1449.0	1437.9	1432.5
52.5°	1226.1	1248.4	1265.2	1270.9	1276.3	1276.3	1282.0	1270.9	1265.2	1248.4	1215.0
55°	1125.9	1148.1	1148.1	1148.1	1148.1	1170.4	1142.7	1148.1	1148.1	1103.6	1059.1
57.5°	1025.6	1047.9	1064.5	1042.2	1064.5	1042.2	1031.1	1025.6	1014.3	969.7	902.9
60°	942.0	953.1	947.5	942.0	953.1	936.3	925.2	902.9	891.8	830.4	785.9
62.5°	847.2	852.7	858.4	847.2	836.1	830.4	808.2	774.7	752.5	702.3	663.2
65°	769.1	752.5	746.8	741.3	730.2	713.4	696.8	657.7	640.9	596.3	557.3
67.5°	652.0	646.6	657.7	640.9	613.2	613.2	596.3	562.9	523.8	496.1	457.0
70°	557.3	551.8	540.7	523.8	518.4	496.1	496.1	457.0	445.9	395.7	362.3
72.5°	457.0	457.0	440.2	423.6	406.8	395.7	390.2	362.3	345.7	317.7	289.8
75°	345.7	345.7	340.0	323.2	312.0	300.9	295.4	273.2	256.4	228.6	211.8
77.5°	245.2	245.2	222.9	211.8	217.3	206.1	195.0	189.5	183.9	167.3	145.0
80°	145.0	139.3	122.7	128.2	122.7	122.7	117.0	111.4	100.2	89.1	78.0
82.5°	39.1	44.5	44.5	44.5	50.2	39.1	39.1	39.1	44.5	44.5	28.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	5.7	5.7
87.5°	5.7	11.1	22.3	22.3	22.3	22.3	22.3	16.8	16.8	16.8	11.1
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: P#

CATALOG NUMBER: LD4C75D010 EX4C759050 4LBSQLWWLI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	4648.3	4648.3	4648.3	4648.3	4648.3	4648.3	4648.3	4648.3	4648.3	4648.3	4648.3
2.5°	4704.2	4698.5	4704.2	4665.1	4754.2	4687.3	4676.2	4665.1	4704.2	4665.1	4609.4
5°	4804.4	4748.7	4731.9	4715.3	4765.3	4687.3	4670.8	4676.2	4648.3	4576.0	4581.4
7.5°	4837.8	4787.8	4737.6	4631.7	4676.2	4659.6	4614.9	4581.4	4536.9	4475.5	4464.4
10°	4848.9	4793.3	4720.8	4687.3	4620.5	4598.3	4581.4	4525.8	4470.1	4364.2	4336.2
12.5°	4815.5	4748.7	4659.6	4631.7	4581.4	4508.9	4470.1	4414.2	4364.2	4280.5	4219.2
15°	4670.8	4614.9	4587.1	4492.4	4470.1	4425.3	4347.4	4269.4	4196.9	4085.3	4051.9
17.5°	4503.5	4481.2	4453.3	4380.8	4375.3	4330.8	4258.3	4191.2	4096.7	3923.7	3868.1
20°	4330.8	4330.8	4241.5	4213.7	4269.4	4180.1	4124.4	4063.1	3868.1	3784.4	3684.2
22.5°	4202.6	4141.2	4091.0	4046.5	4051.9	3996.2	3918.3	3795.6	3723.1	3622.8	3505.8
25°	3951.7	3974.0	3862.6	3845.8	3862.6	3734.2	3695.3	3594.9	3489.0	3394.2	3305.1
27.5°	3795.6	3734.2	3661.9	3600.6	3600.6	3550.3	3439.0	3416.7	3254.9	3165.8	3054.2
30°	3561.5	3516.9	3455.6	3366.5	3355.3	3316.3	3227.2	3171.3	3004.2	2870.4	2809.0
32.5°	3266.0	3249.4	3199.2	3099.0	3065.6	3020.8	2909.4	2814.7	2736.7	2586.1	2513.8
35°	3054.2	2993.1	2887.2	2803.5	2775.6	2697.6	2608.3	2541.5	2457.9	2324.2	2229.5
37.5°	2736.7	2675.4	2574.9	2474.7	2474.7	2396.7	2274.0	2207.2	2090.2	2012.0	1934.0
40°	2457.9	2379.9	2279.7	2162.7	2145.8	2034.3	1984.3	1872.7	1800.2	1677.7	1666.5
42.5°	2145.8	2073.3	1984.3	1894.9	1828.1	1772.4	1644.3	1560.6	1482.7	1421.3	1404.5
45°	1861.5	1766.8	1688.8	1577.2	1510.4	1443.6	1360.0	1304.3	1242.9	1176.1	1137.0
47.5°	1616.3	1538.4	1426.8	1326.5	1259.7	1226.1	1131.3	1070.2	1020.0	975.4	947.5
50°	1365.6	1270.9	1209.5	1097.9	1086.8	1008.8	930.9	880.7	852.7	813.8	774.7
52.5°	1176.1	1086.8	1003.2	919.7	875.0	847.2	774.7	724.5	685.7	657.7	635.4
55°	992.0	914.1	847.2	763.6	735.7	696.8	613.2	602.0	562.9	523.8	496.1
57.5°	852.7	780.2	702.3	646.6	596.3	568.6	501.6	457.0	434.8	401.3	373.4
60°	724.5	646.6	585.2	518.4	496.1	457.0	406.8	367.9	340.0	312.0	284.3
62.5°	607.5	540.7	473.8	417.9	384.5	362.3	323.2	289.8	262.0	239.8	217.3
65°	501.6	440.2	384.5	328.9	312.0	284.3	256.4	228.6	206.1	178.4	156.1
67.5°	412.5	356.8	300.9	262.0	245.2	234.1	200.7	172.7	156.1	139.3	117.0
70°	323.2	284.3	239.8	206.1	189.5	172.7	150.5	133.9	111.4	100.2	83.6
72.5°	250.9	217.3	178.4	150.5	139.3	128.2	105.9	89.1	78.0	66.8	55.7
75°	178.4	150.5	128.2	100.2	94.8	89.1	72.5	61.4	50.2	39.1	33.4
77.5°	122.7	100.2	78.0	66.8	61.4	50.2	44.5	33.4	28.0	22.3	16.8
80°	66.8	50.2	39.1	33.4	28.0	22.3	22.3	16.8	11.1	11.1	5.7
82.5°	22.3	16.8	11.1	5.7	5.7	5.7	5.7	5.7	5.7	0.0	5.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	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: P#

CATALOG NUMBER: LD4C75D010 EX4C759050 4LBSQLWWLI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	4648.3	4648.3	4648.3	4648.3	4648.3	4648.3	4648.3	4648.3	4648.3	4648.3	4648.3
2.5°	4642.8	4581.4	4598.3	4598.3	4587.1	4587.1	4576.0	4559.2	4564.8	4531.2	4458.9
5°	4592.6	4514.6	4503.5	4514.6	4470.1	4458.9	4436.7	4470.1	4369.6	4408.7	4364.2
7.5°	4447.8	4375.3	4358.5	4397.6	4341.9	4308.3	4302.8	4347.4	4258.3	4213.7	4163.5
10°	4286.0	4258.3	4208.0	4180.1	4163.5	4169.0	4124.4	4068.7	4051.9	4040.8	3996.2
12.5°	4141.2	4079.9	4035.3	4001.9	3990.8	3990.8	3918.3	3907.1	3856.9	3845.8	3779.0
15°	3968.3	3896.0	3868.1	3823.5	3784.4	3806.7	3723.1	3700.8	3684.2	3611.7	3622.8
17.5°	3817.8	3739.9	3673.1	3645.1	3611.7	3578.3	3500.1	3516.9	3477.8	3477.8	3377.6
20°	3622.8	3539.2	3489.0	3433.3	3433.3	3388.8	3333.1	3338.5	3288.3	3238.3	3149.0
22.5°	3416.7	3327.4	3266.0	3243.8	3188.1	3176.9	3110.1	3093.3	3026.5	3031.9	2954.0
25°	3199.2	3110.1	3026.5	3031.9	2981.9	2959.7	2920.6	2842.6	2814.7	2781.3	2759.0
27.5°	2942.9	2881.5	2809.0	2803.5	2708.8	2714.2	2664.2	2642.0	2574.9	2591.7	2541.5
30°	2708.8	2619.7	2552.6	2536.1	2497.0	2485.8	2407.9	2374.2	2385.6	2340.8	2313.1
32.5°	2469.0	2335.4	2307.4	2274.0	2251.7	2223.8	2168.1	2190.4	2140.2	2151.3	2106.8
35°	2151.3	2095.6	2023.1	2023.1	2000.8	1978.6	1939.7	1962.0	1911.8	1889.5	1844.9
37.5°	1883.8	1833.8	1761.3	1783.6	1744.5	1711.1	1677.7	1683.1	1638.6	1633.1	1588.4
40°	1594.0	1566.1	1516.1	1516.1	1488.1	1488.1	1471.3	1454.7	1426.8	1393.4	1343.1
42.5°	1320.9	1298.6	1276.3	1282.0	1242.9	1276.3	1231.8	1259.7	1170.4	1165.0	1131.3
45°	1120.2	1070.2	1075.6	1053.4	1031.1	1042.2	1003.2	1014.3	964.3	953.1	919.7
47.5°	908.6	891.8	858.4	847.2	847.2	830.4	813.8	808.2	785.9	757.9	713.4
50°	746.8	685.7	674.3	657.7	646.6	646.6	624.3	590.9	596.3	568.6	523.8
52.5°	585.2	535.0	512.7	507.3	485.0	473.8	445.9	423.6	406.8	395.7	367.9
55°	451.4	406.8	379.1	379.1	345.7	345.7	306.6	289.8	267.5	245.2	228.6
57.5°	340.0	317.7	289.8	267.5	256.4	228.6	206.1	178.4	161.6	128.2	105.9
60°	256.4	234.1	206.1	189.5	178.4	150.5	122.7	100.2	61.4	50.2	44.5
62.5°	189.5	167.3	139.3	128.2	117.0	94.8	66.8	33.4	16.8	16.8	16.8
65°	139.3	111.4	89.1	78.0	66.8	50.2	22.3	11.1	5.7	5.7	5.7
67.5°	94.8	72.5	50.2	44.5	33.4	16.8	5.7	5.7	5.7	5.7	5.7
70°	61.4	44.5	22.3	16.8	11.1	5.7	5.7	5.7	5.7	5.7	5.7
72.5°	39.1	22.3	11.1	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	22.3	11.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	11.1	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	5.7	5.7
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: P#

CATALOG NUMBER: LD4C75D010 EX4C759050 4LBSQLWWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4648.3	4648.3	4648.3	4648.3	4648.3	4648.3	4648.3	4648.3
2.5°	4536.9	4497.8	4520.1	4470.1	4492.4	4531.2	4503.5	4514.6
5°	4380.8	4358.5	4330.8	4258.3	4313.9	4358.5	4336.2	4330.8
7.5°	4213.7	4135.5	4174.6	4152.4	4141.2	4185.8	4135.5	4191.2
10°	4040.8	3985.1	3979.6	3940.6	3940.6	3974.0	3979.6	3946.0
12.5°	3784.4	3756.7	3756.7	3751.0	3745.3	3779.0	3784.4	3767.8
15°	3600.6	3589.4	3561.5	3556.0	3522.6	3572.6	3578.3	3572.6
17.5°	3377.6	3383.1	3355.3	3355.3	3377.6	3394.2	3349.7	3394.2
20°	3227.2	3199.2	3188.1	3137.9	3165.8	3193.8	3193.8	3199.2
22.5°	3009.7	2965.1	2981.9	2954.0	2937.2	2976.3	2976.3	2993.1
25°	2764.5	2764.5	2775.6	2759.0	2770.1	2792.4	2775.6	2814.7
27.5°	2530.4	2552.6	2552.6	2530.4	2541.5	2608.3	2636.3	2591.7
30°	2313.1	2318.6	2335.4	2324.2	2357.6	2379.9	2374.2	2407.9
32.5°	2067.9	2095.6	2106.8	2090.2	2101.3	2151.3	2123.6	2117.9
35°	1878.3	1828.1	1822.7	1828.1	1850.4	1861.5	1850.4	1889.5
37.5°	1605.2	1588.4	1566.1	1571.8	1588.4	1610.9	1622.0	1649.7
40°	1343.1	1320.9	1320.9	1315.4	1298.6	1360.0	1360.0	1360.0
42.5°	1114.7	1109.1	1081.3	1081.3	1103.6	1120.2	1109.1	1148.1
45°	914.1	891.8	875.0	875.0	891.8	891.8	908.6	902.9
47.5°	719.1	696.8	702.3	685.7	702.3	724.5	696.8	702.3
50°	540.7	540.7	529.5	540.7	535.0	540.7	529.5	518.4
52.5°	367.9	417.9	423.6	401.3	351.1	306.6	278.6	300.9
55°	211.8	189.5	189.5	183.9	172.7	167.3	150.5	167.3
57.5°	105.9	94.8	94.8	94.8	89.1	83.6	72.5	72.5
60°	44.5	39.1	39.1	33.4	28.0	22.3	16.8	22.3
62.5°	16.8	11.1	11.1	11.1	11.1	11.1	11.1	11.1
65°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
67.5°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
70°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)