

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

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



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: -

Luminaire Equipment: Sample No. Condition Description

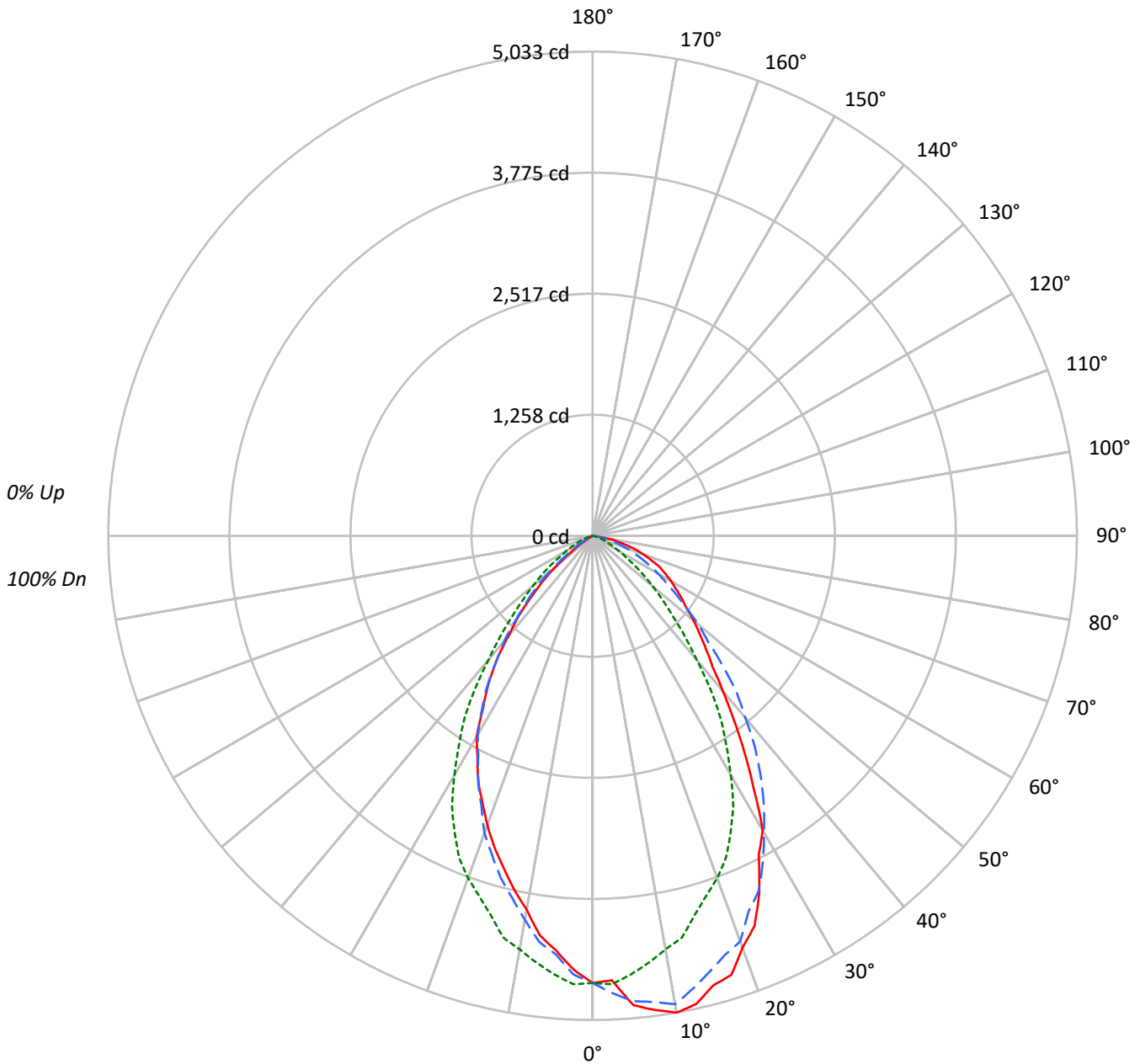
Summary

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 (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									
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



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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	



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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



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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



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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)