

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 EX4C759040 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 EX4C759040 4LBSQLWWLI
Description: 4 INCH 7500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBSQLWW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

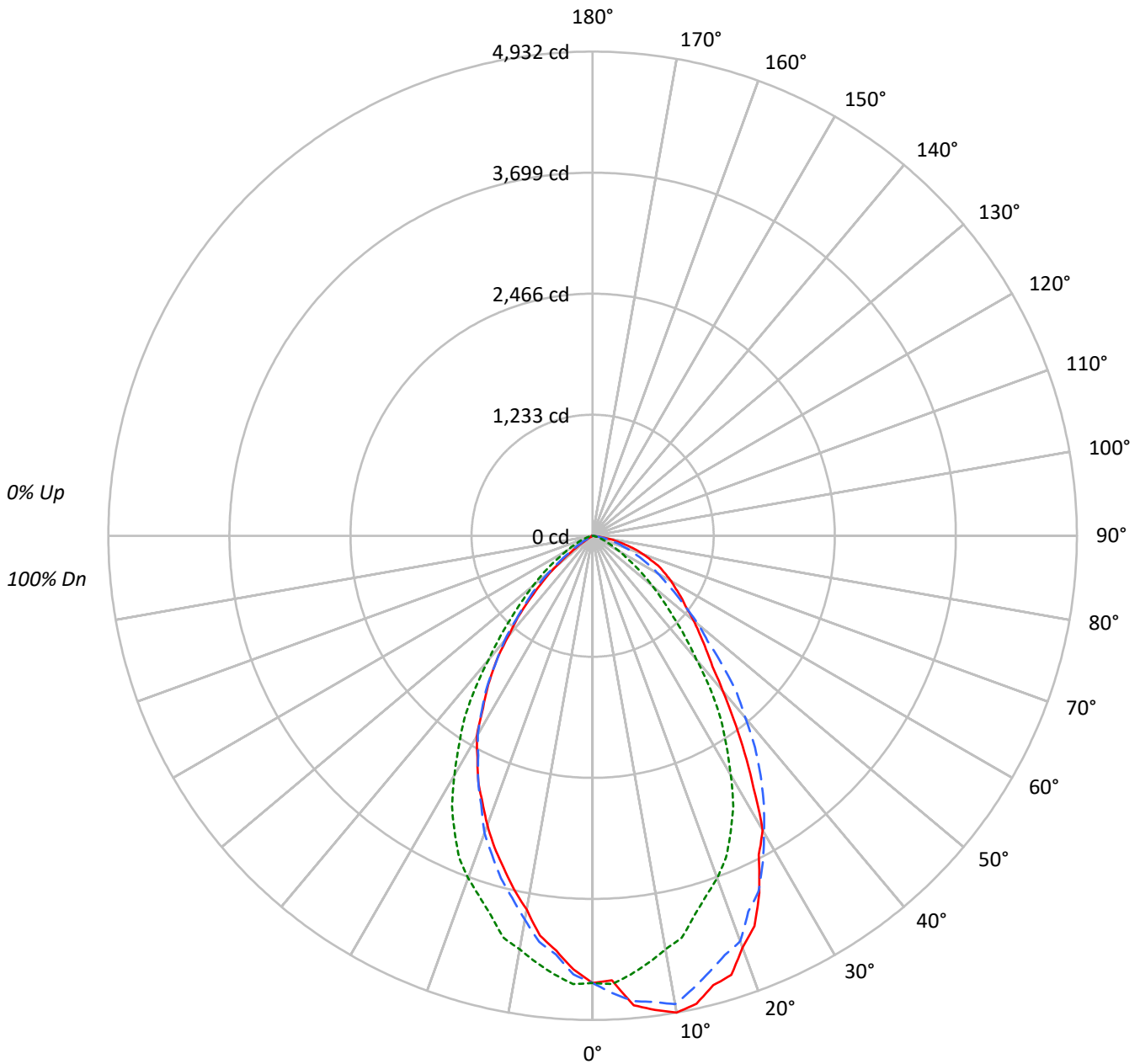
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6529.0 lumens
Efficiency: N/A
Efficacy: 80.1 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

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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°	439488	439488	439488
5°	464974	434309	411034
10°	483205	418991	378849
15°	473541	399890	349704
20°	458174	380773	321896
25°	427377	354088	293638
30°	385799	313368	262874
35°	317789	268269	218090
40°	259346	207061	167851
45°	222832	157252	120736
50°	201673	119713	76256
55°	185584	86349	27572
60°	178138	59013	4207
65°	172056	39909	1279
70°	154063	27704	1580
75°	126269	14278	0
80°	78959	6057	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.8	6.5
10°-20°	1149.8	17.6
20°-30°	1535.3	23.5
30°-40°	1457.4	22.3
40°-50°	1007.4	15.4
50°-60°	556.6	8.5
60°-70°	276.4	4.2
70°-80°	108.9	1.7
80°-90°	10.4	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°	3111.8	47.7
0°-40°	4569.2	70.0
0°-60°	6133.3	93.9
0°-90°	6529.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6529.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4555	4555	4555	4555	4555	
5°	4801	4757	4484	4282	4244	460
15°	4740	4599	4003	3610	3501	1341
25°	4014	3998	3326	2758	2758	1830
35°	2698	2982	2278	1873	1852	1690
45°	1633	1873	1152	945	885	1274
55°	1103	1038	513	262	164	993
65°	754	546	175	6	6	731
75°	339	208	38	0	0	361
85°	0	6	0	0	0	31
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°	4554.8	4554.8	4554.8	4554.8	4554.8	4554.8	4554.8	4554.8	4554.8	4554.8	4554.8
2.5°	4533.0	4658.6	4669.5	4658.6	4675.0	4669.5	4696.9	4669.5	4702.4	4653.2	4664.1
5°	4800.6	4751.4	4855.2	4800.6	4800.6	4795.3	4778.8	4773.2	4795.3	4724.2	4757.0
7.5°	4871.7	4942.7	5035.6	4920.9	4926.2	4926.2	4893.5	4882.6	4882.6	4751.4	4789.7
10°	4931.8	4887.9	4937.1	4893.5	4931.8	4926.2	4948.1	4877.0	4926.2	4849.8	4844.3
12.5°	4882.6	4866.1	4931.8	4860.8	4838.9	4844.3	4817.1	4800.6	4817.1	4729.6	4724.2
15°	4740.5	4757.0	4855.2	4778.8	4767.9	4757.0	4724.2	4669.5	4713.3	4593.1	4598.6
17.5°	4691.5	4664.1	4680.6	4614.9	4631.4	4620.5	4614.9	4565.9	4554.8	4478.4	4478.4
20°	4462.1	4522.0	4522.0	4478.4	4478.4	4473.0	4402.0	4445.7	4396.4	4374.6	4396.4
22.5°	4303.6	4309.1	4309.1	4270.8	4276.4	4254.6	4216.3	4188.9	4216.3	4188.9	4145.2
25°	4014.3	4025.2	4090.7	4019.6	4008.7	4030.6	3997.8	3981.3	3976.0	3910.5	3997.8
27.5°	3664.7	3773.8	3768.4	3741.1	3773.8	3730.1	3713.9	3719.2	3735.7	3730.1	3752.0
30°	3462.7	3478.9	3495.4	3473.6	3478.9	3462.7	3462.7	3468.0	3511.7	3495.4	3489.9
32.5°	3052.9	3107.5	3151.4	3151.4	3156.7	3173.2	3167.6	3282.3	3309.7	3255.1	3244.2
35°	2697.9	2736.2	2774.3	2779.9	2850.9	2856.3	2861.8	2894.6	2971.0	2987.4	2981.9
37.5°	2359.4	2397.5	2408.4	2457.7	2496.0	2534.0	2577.9	2621.6	2687.0	2741.6	2714.4
40°	2059.0	2075.3	2102.7	2124.5	2200.9	2200.9	2222.7	2310.2	2381.3	2424.9	2419.4
42.5°	1807.8	1813.2	1835.0	1873.3	1944.3	1927.9	1944.3	2004.5	2108.0	2113.6	2173.7
45°	1633.0	1627.5	1643.9	1649.3	1693.1	1715.0	1725.9	1769.5	1856.8	1867.7	1873.3
47.5°	1474.7	1469.1	1496.5	1507.4	1523.7	1545.5	1545.5	1551.1	1583.8	1611.2	1589.4
50°	1343.5	1343.5	1343.5	1354.4	1381.8	1376.3	1381.8	1403.6	1419.9	1409.0	1403.6
52.5°	1201.4	1223.3	1239.7	1245.3	1250.7	1250.7	1256.2	1245.3	1239.7	1223.3	1190.5
55°	1103.2	1125.1	1125.1	1125.1	1125.1	1146.9	1119.7	1125.1	1125.1	1081.4	1037.8
57.5°	1005.0	1026.8	1043.1	1021.3	1043.1	1021.3	1010.4	1005.0	993.9	950.2	884.8
60°	923.1	934.0	928.4	923.1	934.0	917.5	906.6	884.8	873.9	813.7	770.1
62.5°	830.2	835.6	841.1	830.2	819.3	813.7	791.9	759.2	737.3	688.1	649.8
65°	753.6	737.3	731.8	726.4	715.5	699.0	682.8	644.5	628.0	584.4	546.1
67.5°	638.9	633.6	644.5	628.0	600.8	600.8	584.4	551.6	513.3	486.1	447.8
70°	546.1	540.7	529.8	513.3	508.0	486.1	486.1	447.8	436.9	387.7	355.0
72.5°	447.8	447.8	431.4	415.1	398.6	387.7	382.4	355.0	338.7	311.3	283.9
75°	338.7	338.7	333.2	316.7	305.8	294.9	289.5	267.7	251.2	224.0	207.6
77.5°	240.3	240.3	218.5	207.6	212.9	202.0	191.1	185.7	180.2	163.9	142.1
80°	142.1	136.5	120.3	125.6	120.3	120.3	114.7	109.1	98.2	87.3	76.4
82.5°	38.3	43.6	43.6	43.6	49.2	38.3	38.3	38.3	43.6	43.6	27.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	5.6	5.6
87.5°	5.6	10.9	21.8	21.8	21.8	21.8	21.8	16.5	16.5	16.5	10.9
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	4554.8	4554.8	4554.8	4554.8	4554.8	4554.8	4554.8	4554.8	4554.8	4554.8	4554.8
2.5°	4609.6	4604.0	4609.6	4571.3	4658.6	4593.1	4582.2	4571.3	4609.6	4571.3	4516.7
5°	4707.8	4653.2	4636.7	4620.5	4669.5	4593.1	4576.8	4582.2	4554.8	4484.0	4489.3
7.5°	4740.5	4691.5	4642.3	4538.5	4582.2	4565.9	4522.0	4489.3	4445.7	4385.5	4374.6
10°	4751.4	4696.9	4625.8	4593.1	4527.6	4505.8	4489.3	4434.7	4380.2	4276.4	4249.0
12.5°	4718.7	4653.2	4565.9	4538.5	4489.3	4418.3	4380.2	4325.4	4276.4	4194.5	4134.3
15°	4576.8	4522.0	4494.9	4402.0	4380.2	4336.3	4259.9	4183.5	4112.5	4003.2	3970.4
17.5°	4412.9	4391.1	4363.7	4292.7	4287.3	4243.7	4172.6	4106.9	4014.3	3844.8	3790.3
20°	4243.7	4243.7	4156.2	4129.0	4183.5	4096.0	4041.5	3981.3	3790.3	3708.3	3610.1
22.5°	4118.1	4057.9	4008.7	3965.1	3970.4	3915.9	3839.5	3719.2	3648.2	3550.0	3435.3
25°	3872.2	3894.0	3784.9	3768.4	3784.9	3659.1	3621.0	3522.6	3418.8	3325.9	3238.7
27.5°	3719.2	3659.1	3588.3	3528.2	3528.2	3478.9	3369.8	3348.0	3189.4	3102.1	2992.8
30°	3489.9	3446.2	3386.1	3298.8	3287.9	3249.6	3162.3	3107.5	2943.8	2812.6	2752.5
32.5°	3200.3	3184.1	3134.9	3036.7	3003.9	2960.1	2850.9	2758.1	2681.7	2534.0	2463.2
35°	2992.8	2932.9	2829.1	2747.2	2719.8	2643.4	2555.9	2490.4	2408.4	2277.5	2184.6
37.5°	2681.7	2621.6	2523.1	2424.9	2424.9	2348.5	2228.3	2162.8	2048.1	1971.5	1895.1
40°	2408.4	2332.1	2233.8	2119.2	2102.7	1993.3	1944.3	1835.0	1764.0	1643.9	1633.0
42.5°	2102.7	2031.6	1944.3	1856.8	1791.4	1736.8	1611.2	1529.2	1452.9	1392.7	1376.3
45°	1824.1	1731.2	1654.8	1545.5	1480.0	1414.6	1332.6	1278.0	1217.9	1152.4	1114.1
47.5°	1583.8	1507.4	1398.1	1299.9	1234.4	1201.4	1108.6	1048.7	999.5	955.8	928.4
50°	1338.2	1245.3	1185.2	1075.8	1064.9	988.5	912.2	862.9	835.6	797.5	759.2
52.5°	1152.4	1064.9	983.0	901.2	857.4	830.2	759.2	710.0	671.9	644.5	622.7
55°	972.1	895.7	830.2	748.3	720.9	682.8	600.8	589.9	551.6	513.3	486.1
57.5°	835.6	764.5	688.1	633.6	584.4	557.2	491.5	447.8	426.0	393.3	365.9
60°	710.0	633.6	573.4	508.0	486.1	447.8	398.6	360.5	333.2	305.8	278.6
62.5°	595.3	529.8	464.3	409.5	376.8	355.0	316.7	283.9	256.8	234.9	212.9
65°	491.5	431.4	376.8	322.2	305.8	278.6	251.2	224.0	202.0	174.8	153.0
67.5°	404.2	349.6	294.9	256.8	240.3	229.4	196.6	169.3	153.0	136.5	114.7
70°	316.7	278.6	234.9	202.0	185.7	169.3	147.4	131.2	109.1	98.2	82.0
72.5°	245.9	212.9	174.8	147.4	136.5	125.6	103.8	87.3	76.4	65.5	54.6
75°	174.8	147.4	125.6	98.2	92.9	87.3	71.0	60.1	49.2	38.3	32.7
77.5°	120.3	98.2	76.4	65.5	60.1	49.2	43.6	32.7	27.4	21.8	16.5
80°	65.5	49.2	38.3	32.7	27.4	21.8	21.8	16.5	10.9	10.9	5.6
82.5°	21.8	16.5	10.9	5.6	5.6	5.6	5.6	5.6	5.6	0.0	5.6
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°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	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°	4554.8	4554.8	4554.8	4554.8	4554.8	4554.8	4554.8	4554.8	4554.8	4554.8	4554.8
2.5°	4549.4	4489.3	4505.8	4505.8	4494.9	4494.9	4484.0	4467.5	4473.0	4440.1	4369.3
5°	4500.2	4423.8	4412.9	4423.8	4380.2	4369.3	4347.4	4380.2	4281.8	4320.1	4276.4
7.5°	4358.4	4287.3	4270.8	4309.1	4254.6	4221.6	4216.3	4259.9	4172.6	4129.0	4079.8
10°	4199.8	4172.6	4123.4	4096.0	4079.8	4085.1	4041.5	3986.9	3970.4	3959.5	3915.9
12.5°	4057.9	3997.8	3954.2	3921.4	3910.5	3910.5	3839.5	3828.6	3779.4	3768.4	3703.0
15°	3888.5	3817.7	3790.3	3746.6	3708.3	3730.1	3648.2	3626.4	3610.1	3539.1	3550.0
17.5°	3741.1	3664.7	3599.2	3571.8	3539.1	3506.3	3429.7	3446.2	3407.9	3407.9	3309.7
20°	3550.0	3468.0	3418.8	3364.3	3364.3	3320.6	3266.0	3271.4	3222.2	3173.2	3085.7
22.5°	3348.0	3260.5	3200.3	3178.5	3124.0	3113.0	3047.6	3031.1	2965.6	2971.0	2894.6
25°	3134.9	3047.6	2965.6	2971.0	2922.0	2900.1	2861.8	2785.5	2758.1	2725.3	2703.5
27.5°	2883.7	2823.5	2752.5	2747.2	2654.3	2659.6	2610.6	2588.8	2523.1	2539.6	2490.4
30°	2654.3	2567.0	2501.3	2485.0	2446.7	2435.8	2359.4	2326.5	2337.6	2293.8	2266.6
32.5°	2419.4	2288.4	2261.0	2228.3	2206.5	2179.1	2124.5	2146.3	2097.1	2108.0	2064.4
35°	2108.0	2053.5	1982.4	1982.4	1960.6	1938.8	1900.7	1922.5	1873.3	1851.5	1807.8
37.5°	1845.9	1796.9	1725.9	1747.7	1709.4	1676.7	1643.9	1649.3	1605.6	1600.3	1556.4
40°	1562.0	1534.6	1485.6	1485.6	1458.2	1458.2	1441.7	1425.5	1398.1	1365.3	1316.1
42.5°	1294.3	1272.5	1250.7	1256.2	1217.9	1250.7	1207.0	1234.4	1146.9	1141.5	1108.6
45°	1097.7	1048.7	1054.0	1032.2	1010.4	1021.3	983.0	993.9	944.9	934.0	901.2
47.5°	890.3	873.9	841.1	830.2	830.2	813.7	797.5	791.9	770.1	742.7	699.0
50°	731.8	671.9	660.7	644.5	633.6	633.6	611.7	579.0	584.4	557.2	513.3
52.5°	573.4	524.2	502.4	497.1	475.2	464.3	436.9	415.1	398.6	387.7	360.5
55°	442.3	398.6	371.5	371.5	338.7	338.7	300.4	283.9	262.1	240.3	224.0
57.5°	333.2	311.3	283.9	262.1	251.2	224.0	202.0	174.8	158.3	125.6	103.8
60°	251.2	229.4	202.0	185.7	174.8	147.4	120.3	98.2	60.1	49.2	43.6
62.5°	185.7	163.9	136.5	125.6	114.7	92.9	65.5	32.7	16.5	16.5	16.5
65°	136.5	109.1	87.3	76.4	65.5	49.2	21.8	10.9	5.6	5.6	5.6
67.5°	92.9	71.0	49.2	43.6	32.7	16.5	5.6	5.6	5.6	5.6	5.6
70°	60.1	43.6	21.8	16.5	10.9	5.6	5.6	5.6	5.6	5.6	5.6
72.5°	38.3	21.8	10.9	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	21.8	10.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	10.9	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	5.6	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	5.6	5.6	5.6
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 EX4C759040 4LBSQLWWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4554.8	4554.8	4554.8	4554.8	4554.8	4554.8	4554.8	4554.8
2.5°	4445.7	4407.4	4429.2	4380.2	4402.0	4440.1	4412.9	4423.8
5°	4292.7	4270.8	4243.7	4172.6	4227.2	4270.8	4249.0	4243.7
7.5°	4129.0	4052.4	4090.7	4068.9	4057.9	4101.6	4052.4	4106.9
10°	3959.5	3905.0	3899.6	3861.3	3861.3	3894.0	3899.6	3866.7
12.5°	3708.3	3681.1	3681.1	3675.6	3670.0	3703.0	3708.3	3692.1
15°	3528.2	3517.2	3489.9	3484.5	3451.8	3500.8	3506.3	3500.8
17.5°	3309.7	3315.0	3287.9	3287.9	3309.7	3325.9	3282.3	3325.9
20°	3162.3	3134.9	3124.0	3074.7	3102.1	3129.5	3129.5	3134.9
22.5°	2949.1	2905.5	2922.0	2894.6	2878.1	2916.4	2916.4	2932.9
25°	2708.9	2708.9	2719.8	2703.5	2714.4	2736.2	2719.8	2758.1
27.5°	2479.5	2501.3	2501.3	2479.5	2490.4	2555.9	2583.3	2539.6
30°	2266.6	2271.9	2288.4	2277.5	2310.2	2332.1	2326.5	2359.4
32.5°	2026.3	2053.5	2064.4	2048.1	2059.0	2108.0	2080.9	2075.3
35°	1840.6	1791.4	1786.0	1791.4	1813.2	1824.1	1813.2	1851.5
37.5°	1572.9	1556.4	1534.6	1540.2	1556.4	1578.5	1589.4	1616.5
40°	1316.1	1294.3	1294.3	1289.0	1272.5	1332.6	1332.6	1332.6
42.5°	1092.3	1086.8	1059.6	1059.6	1081.4	1097.7	1086.8	1125.1
45°	895.7	873.9	857.4	857.4	873.9	873.9	890.3	884.8
47.5°	704.6	682.8	688.1	671.9	688.1	710.0	682.8	688.1
50°	529.8	529.8	518.9	529.8	524.2	529.8	518.9	508.0
52.5°	360.5	409.5	415.1	393.3	344.1	300.4	273.0	294.9
55°	207.6	185.7	185.7	180.2	169.3	163.9	147.4	163.9
57.5°	103.8	92.9	92.9	92.9	87.3	82.0	71.0	71.0
60°	43.6	38.3	38.3	32.7	27.4	21.8	16.5	21.8
62.5°	16.5	10.9	10.9	10.9	10.9	10.9	10.9	10.9
65°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
67.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
70°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
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)