

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 EX4C759027 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 EX4C759027 4LBSQLWWLI
Description: 4 INCH 7500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBSQLWW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

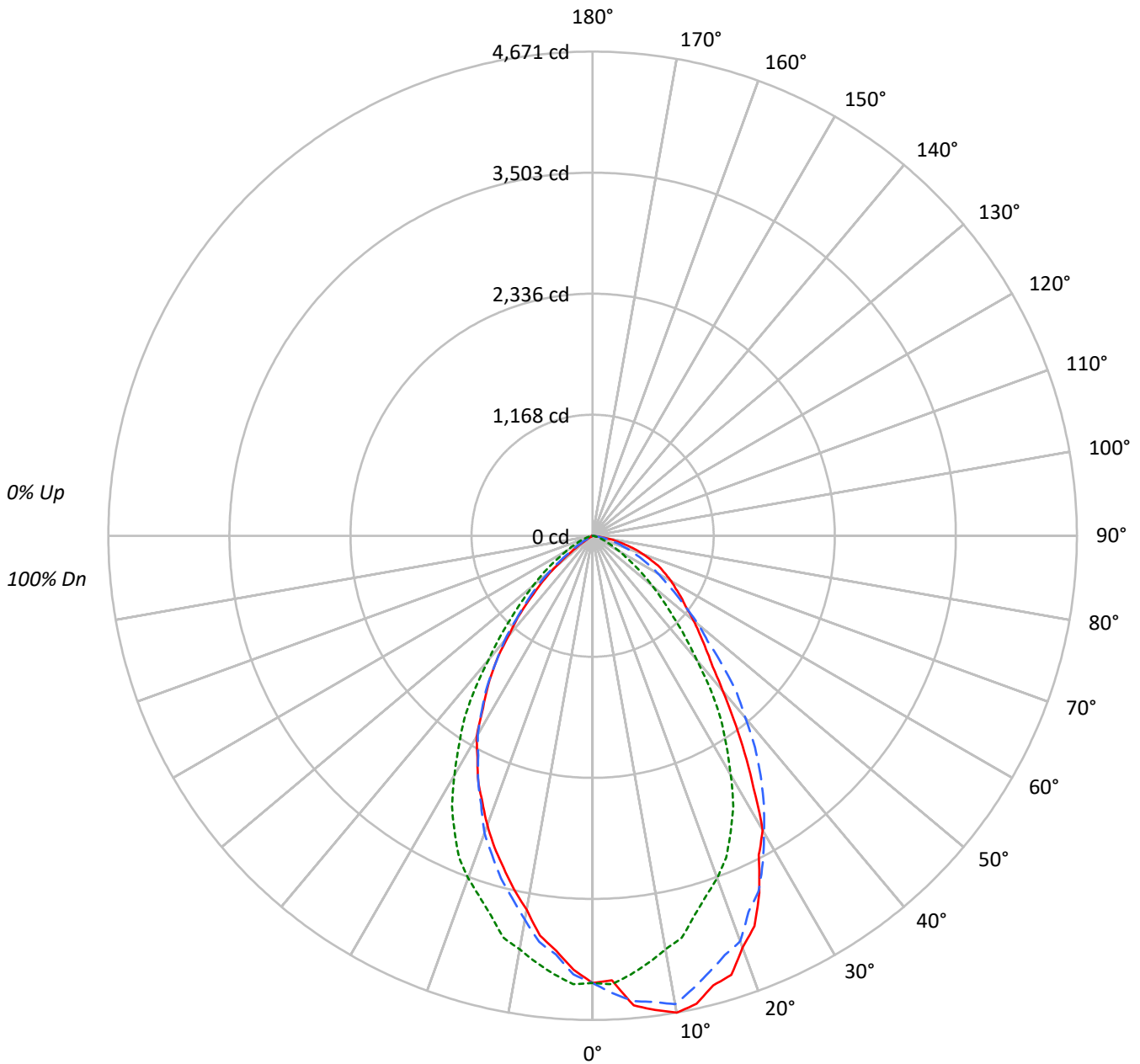
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6184.0 lumens
Efficiency: N/A
Efficacy: 75.9 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				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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90			90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72			72
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64			64
5	85	75	67	62	83	74	67	62	72	66	61	70	65	60	68	64	60	58			58
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	54	53			53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48			48
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44			44
9	66	55	48	43	65	54	47	43	53	47	43	52	46	42	51	46	42	41			41
10	62	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38			38

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	416263	416263	416263
5°	440411	411354	389309
10°	457672	396848	358823
15°	448518	378753	331224
20°	433962	360658	304881
25°	404796	335382	278115
30°	365410	296812	248992
35°	301004	254099	206559
40°	245642	196128	158983
45°	211056	148942	114350
50°	191015	113378	72218
55°	175776	81790	26108
60°	168720	55886	3995
65°	162969	37808	1210
70°	145910	26237	1495
75°	119596	13533	0
80°	74791	5723	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	404.2	6.5
10°-20°	1089.0	17.6
20°-30°	1454.2	23.5
30°-40°	1380.4	22.3
40°-50°	954.2	15.4
50°-60°	527.2	8.5
60°-70°	261.8	4.2
70°-80°	103.1	1.7
80°-90°	9.8	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°	2947.4	47.7
0°-40°	4327.8	70.0
0°-60°	5809.2	93.9
0°-90°	6184.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6184.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4314	4314	4314	4314	4314	
5°	4547	4506	4247	4056	4019	435
15°	4490	4356	3792	3419	3316	1270
25°	3802	3787	3150	2612	2612	1733
35°	2555	2824	2157	1774	1754	1601
45°	1547	1774	1092	895	838	1206
55°	1045	983	486	248	155	941
65°	714	517	166	5	5	693
75°	321	197	36	0	0	342
85°	0	5	0	0	0	30
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°	4314.1	4314.1	4314.1	4314.1	4314.1	4314.1	4314.1	4314.1	4314.1	4314.1	4314.1
2.5°	4293.4	4412.4	4422.7	4412.4	4428.0	4422.7	4448.7	4422.7	4453.9	4407.3	4417.7
5°	4547.0	4500.3	4598.6	4547.0	4547.0	4541.9	4526.3	4521.0	4541.9	4474.6	4505.6
7.5°	4614.2	4681.5	4769.5	4660.9	4665.9	4665.9	4634.9	4624.6	4624.6	4500.3	4536.6
10°	4671.2	4629.6	4676.3	4634.9	4671.2	4665.9	4686.6	4619.3	4665.9	4593.6	4588.3
12.5°	4624.6	4609.0	4671.2	4603.9	4583.2	4588.3	4562.6	4547.0	4562.6	4479.7	4474.6
15°	4490.0	4505.6	4598.6	4526.3	4516.0	4505.6	4474.6	4422.7	4464.3	4350.4	4355.6
17.5°	4443.6	4417.7	4433.3	4371.0	4386.7	4376.3	4371.0	4324.6	4314.1	4241.7	4241.7
20°	4226.3	4283.1	4283.1	4241.7	4241.7	4236.7	4169.4	4210.7	4164.1	4143.5	4164.1
22.5°	4076.2	4081.4	4081.4	4045.2	4050.4	4029.8	3993.5	3967.5	3993.5	3967.5	3926.2
25°	3802.2	3812.5	3874.5	3807.2	3796.9	3817.6	3786.6	3771.0	3765.9	3703.9	3786.6
27.5°	3471.0	3574.4	3569.3	3543.4	3574.4	3533.0	3517.6	3522.7	3538.3	3533.0	3553.7
30°	3279.7	3295.1	3310.7	3290.0	3295.1	3279.7	3279.7	3284.8	3326.1	3310.7	3305.4
32.5°	2891.6	2943.3	2984.8	2984.8	2989.9	3005.5	3000.2	3108.9	3134.8	3083.1	3072.8
35°	2555.4	2591.7	2627.7	2633.0	2700.3	2705.4	2710.6	2741.6	2814.0	2829.6	2824.3
37.5°	2234.8	2270.8	2281.2	2327.8	2364.1	2400.1	2441.7	2483.0	2545.0	2596.7	2571.0
40°	1950.2	1965.6	1991.6	2012.2	2084.6	2084.6	2105.3	2188.2	2255.4	2296.8	2291.5
42.5°	1712.3	1717.4	1738.0	1774.3	1841.6	1826.0	1841.6	1898.6	1996.6	2001.9	2058.9
45°	1546.7	1541.5	1557.1	1562.1	1603.7	1624.3	1634.7	1676.0	1758.7	1769.1	1774.3
47.5°	1396.8	1391.5	1417.4	1427.8	1443.2	1463.8	1463.8	1469.1	1500.1	1526.1	1505.4
50°	1272.5	1272.5	1272.5	1282.9	1308.8	1303.5	1308.8	1329.5	1344.9	1334.5	1329.5
52.5°	1138.0	1158.6	1174.2	1179.5	1184.6	1184.6	1189.8	1179.5	1174.2	1158.6	1127.6
55°	1044.9	1065.6	1065.6	1065.6	1065.6	1086.3	1060.5	1065.6	1065.6	1024.3	982.9
57.5°	951.9	972.6	988.0	967.3	988.0	967.3	957.0	951.9	941.4	900.0	838.0
60°	874.3	884.6	879.4	874.3	884.6	869.0	858.7	838.0	827.7	770.7	729.4
62.5°	786.3	791.4	796.7	786.3	776.0	770.7	750.1	719.1	698.4	651.8	615.5
65°	713.8	698.4	693.1	688.0	677.7	662.1	646.7	610.4	594.8	553.5	517.2
67.5°	605.2	600.1	610.4	594.8	569.1	569.1	553.5	522.5	486.2	460.5	424.2
70°	517.2	512.1	501.8	486.2	481.1	460.5	460.5	424.2	413.8	367.2	336.2
72.5°	424.2	424.2	408.6	393.2	377.6	367.2	362.2	336.2	320.8	294.9	268.9
75°	320.8	320.8	315.5	299.9	289.6	279.3	274.2	253.5	237.9	212.2	196.6
77.5°	227.6	227.6	206.9	196.6	201.7	191.3	181.0	175.9	170.6	155.2	134.6
80°	134.6	129.3	113.9	119.0	113.9	113.9	108.6	103.4	93.0	82.7	72.4
82.5°	36.3	41.3	41.3	41.3	46.6	36.3	36.3	36.3	41.3	41.3	25.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	5.3	5.3
87.5°	5.3	10.3	20.7	20.7	20.7	20.7	20.7	15.6	15.6	15.6	10.3
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	4314.1	4314.1	4314.1	4314.1	4314.1	4314.1	4314.1	4314.1	4314.1	4314.1	4314.1
2.5°	4366.0	4360.7	4366.0	4329.7	4412.4	4350.4	4340.0	4329.7	4366.0	4329.7	4278.0
5°	4459.0	4407.3	4391.7	4376.3	4422.7	4350.4	4335.0	4340.0	4314.1	4247.0	4252.1
7.5°	4490.0	4443.6	4397.0	4298.7	4340.0	4324.6	4283.1	4252.1	4210.7	4153.8	4143.5
10°	4500.3	4448.7	4381.4	4350.4	4288.4	4267.7	4252.1	4200.4	4148.7	4050.4	4024.5
12.5°	4469.3	4407.3	4324.6	4298.7	4252.1	4184.8	4148.7	4096.8	4050.4	3972.8	3915.9
15°	4335.0	4283.1	4257.4	4169.4	4148.7	4107.2	4034.8	3962.5	3895.2	3791.6	3760.6
17.5°	4179.7	4159.1	4133.1	4065.8	4060.8	4019.4	3952.1	3889.9	3802.2	3641.7	3590.0
20°	4019.4	4019.4	3936.5	3910.8	3962.5	3879.6	3827.9	3771.0	3590.0	3512.4	3419.3
22.5°	3900.5	3843.5	3796.9	3755.6	3760.6	3708.9	3636.6	3522.7	3455.4	3362.4	3253.8
25°	3667.6	3688.3	3584.9	3569.3	3584.9	3465.8	3429.7	3336.5	3238.2	3150.2	3067.5
27.5°	3522.7	3465.8	3398.7	3341.7	3341.7	3295.1	3191.7	3171.1	3020.9	2938.2	2834.7
30°	3305.4	3264.1	3207.2	3124.5	3114.1	3077.9	2995.2	2943.3	2788.2	2664.0	2607.1
32.5°	3031.2	3015.8	2969.2	2876.2	2845.2	2803.6	2700.3	2612.3	2540.0	2400.1	2333.1
35°	2834.7	2777.9	2679.6	2602.0	2576.1	2503.7	2420.8	2358.8	2281.2	2157.2	2069.2
37.5°	2540.0	2483.0	2389.8	2296.8	2296.8	2224.4	2110.5	2048.5	1939.9	1867.3	1795.0
40°	2281.2	2208.8	2115.8	2007.2	1991.6	1888.0	1841.6	1738.0	1670.8	1557.1	1546.7
42.5°	1991.6	1924.3	1841.6	1758.7	1696.7	1645.0	1526.1	1448.4	1376.1	1319.1	1303.5
45°	1727.7	1639.8	1567.4	1463.8	1401.8	1339.8	1262.2	1210.5	1153.6	1091.5	1055.3
47.5°	1500.1	1427.8	1324.2	1231.2	1169.2	1138.0	1050.0	993.3	946.6	905.3	879.4
50°	1267.5	1179.5	1122.6	1019.0	1008.7	936.3	864.0	817.3	791.4	755.3	719.1
52.5°	1091.5	1008.7	931.0	853.6	812.1	786.3	719.1	672.4	636.4	610.4	589.8
55°	920.7	848.3	786.3	708.7	682.8	646.7	569.1	558.7	522.5	486.2	460.5
57.5°	791.4	724.1	651.8	600.1	553.5	527.7	465.5	424.2	403.5	372.5	346.6
60°	672.4	600.1	543.1	481.1	460.5	424.2	377.6	341.5	315.5	289.6	263.9
62.5°	563.8	501.8	439.8	387.9	356.9	336.2	299.9	268.9	243.2	222.5	201.7
65°	465.5	408.6	356.9	305.2	289.6	263.9	237.9	212.2	191.3	165.6	144.9
67.5°	382.8	331.2	279.3	243.2	227.6	217.3	186.2	160.3	144.9	129.3	108.6
70°	299.9	263.9	222.5	191.3	175.9	160.3	139.6	124.2	103.4	93.0	77.6
72.5°	232.9	201.7	165.6	139.6	129.3	119.0	98.3	82.7	72.4	62.0	51.7
75°	165.6	139.6	119.0	93.0	88.0	82.7	67.3	56.9	46.6	36.3	31.0
77.5°	113.9	93.0	72.4	62.0	56.9	46.6	41.3	31.0	25.9	20.7	15.6
80°	62.0	46.6	36.3	31.0	25.9	20.7	20.7	15.6	10.3	10.3	5.3
82.5°	20.7	15.6	10.3	5.3	5.3	5.3	5.3	5.3	5.3	0.0	5.3
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°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	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°	4314.1	4314.1	4314.1	4314.1	4314.1	4314.1	4314.1	4314.1	4314.1	4314.1	4314.1
2.5°	4309.0	4252.1	4267.7	4267.7	4257.4	4257.4	4247.0	4231.4	4236.7	4205.5	4138.4
5°	4262.4	4190.1	4179.7	4190.1	4148.7	4138.4	4117.7	4148.7	4055.5	4091.8	4050.4
7.5°	4128.1	4060.8	4045.2	4081.4	4029.8	3998.6	3993.5	4034.8	3952.1	3910.8	3864.2
10°	3977.9	3952.1	3905.5	3879.6	3864.2	3869.3	3827.9	3776.2	3760.6	3750.3	3708.9
12.5°	3843.5	3786.6	3745.2	3714.2	3703.9	3703.9	3636.6	3626.3	3579.6	3569.3	3507.3
15°	3683.0	3615.9	3590.0	3548.6	3512.4	3533.0	3455.4	3434.7	3419.3	3352.1	3362.4
17.5°	3543.4	3471.0	3409.0	3383.1	3352.1	3321.0	3248.5	3264.1	3227.8	3227.8	3134.8
20°	3362.4	3284.8	3238.2	3186.5	3186.5	3145.1	3093.5	3098.5	3051.9	3005.5	2922.6
22.5°	3171.1	3088.2	3031.2	3010.6	2958.9	2948.6	2886.5	2870.9	2808.9	2814.0	2741.6
25°	2969.2	2886.5	2808.9	2814.0	2767.6	2746.9	2710.6	2638.3	2612.3	2581.3	2560.7
27.5°	2731.3	2674.3	2607.1	2602.0	2514.0	2519.1	2472.7	2452.0	2389.8	2405.4	2358.8
30°	2514.0	2431.4	2369.1	2353.7	2317.5	2307.1	2234.8	2203.6	2214.1	2172.6	2146.8
32.5°	2291.5	2167.5	2141.5	2110.5	2089.9	2063.9	2012.2	2032.9	1986.3	1996.6	1955.3
35°	1996.6	1945.0	1877.7	1877.7	1857.0	1836.3	1800.3	1820.9	1774.3	1753.6	1712.3
37.5°	1748.4	1702.0	1634.7	1655.4	1619.1	1588.1	1557.1	1562.1	1520.8	1515.7	1474.2
40°	1479.4	1453.5	1407.1	1407.1	1381.2	1381.2	1365.5	1350.1	1324.2	1293.2	1246.6
42.5°	1225.9	1205.2	1184.6	1189.8	1153.6	1184.6	1143.2	1169.2	1086.3	1081.2	1050.0
45°	1039.7	993.3	998.3	977.6	957.0	967.3	931.0	941.4	895.0	884.6	853.6
47.5°	843.3	827.7	796.7	786.3	786.3	770.7	755.3	750.1	729.4	703.4	662.1
50°	693.1	636.4	625.8	610.4	600.1	600.1	579.4	548.4	553.5	527.7	486.2
52.5°	543.1	496.5	475.9	470.8	450.1	439.8	413.8	393.2	377.6	367.2	341.5
55°	418.9	377.6	351.8	351.8	320.8	320.8	284.5	268.9	248.3	227.6	212.2
57.5°	315.5	294.9	268.9	248.3	237.9	212.2	191.3	165.6	150.0	119.0	98.3
60°	237.9	217.3	191.3	175.9	165.6	139.6	113.9	93.0	56.9	46.6	41.3
62.5°	175.9	155.2	129.3	119.0	108.6	88.0	62.0	31.0	15.6	15.6	15.6
65°	129.3	103.4	82.7	72.4	62.0	46.6	20.7	10.3	5.3	5.3	5.3
67.5°	88.0	67.3	46.6	41.3	31.0	15.6	5.3	5.3	5.3	5.3	5.3
70°	56.9	41.3	20.7	15.6	10.3	5.3	5.3	5.3	5.3	5.3	5.3
72.5°	36.3	20.7	10.3	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	20.7	10.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	10.3	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	5.3	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	5.3	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



TEST NUMBER: P#

CATALOG NUMBER: LD4C75D010 EX4C759027 4LBSQLWWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4314.1	4314.1	4314.1	4314.1	4314.1	4314.1	4314.1	4314.1
2.5°	4210.7	4174.5	4195.1	4148.7	4169.4	4205.5	4179.7	4190.1
5°	4065.8	4045.2	4019.4	3952.1	4003.8	4045.2	4024.5	4019.4
7.5°	3910.8	3838.2	3874.5	3853.9	3843.5	3884.9	3838.2	3889.9
10°	3750.3	3698.6	3693.5	3657.3	3657.3	3688.3	3693.5	3662.3
12.5°	3512.4	3486.6	3486.6	3481.4	3476.1	3507.3	3512.4	3497.0
15°	3341.7	3331.4	3305.4	3300.4	3269.4	3315.8	3321.0	3315.8
17.5°	3134.8	3139.9	3114.1	3114.1	3134.8	3150.2	3108.9	3150.2
20°	2995.2	2969.2	2958.9	2912.3	2938.2	2964.2	2964.2	2969.2
22.5°	2793.3	2752.0	2767.6	2741.6	2726.0	2762.3	2762.3	2777.9
25°	2565.7	2565.7	2576.1	2560.7	2571.0	2591.7	2576.1	2612.3
27.5°	2348.5	2369.1	2369.1	2348.5	2358.8	2420.8	2446.8	2405.4
30°	2146.8	2151.9	2167.5	2157.2	2188.2	2208.8	2203.6	2234.8
32.5°	1919.2	1945.0	1955.3	1939.9	1950.2	1996.6	1970.9	1965.6
35°	1743.3	1696.7	1691.6	1696.7	1717.4	1727.7	1717.4	1753.6
37.5°	1489.8	1474.2	1453.5	1458.8	1474.2	1495.0	1505.4	1531.1
40°	1246.6	1225.9	1225.9	1220.8	1205.2	1262.2	1262.2	1262.2
42.5°	1034.6	1029.3	1003.6	1003.6	1024.3	1039.7	1029.3	1065.6
45°	848.3	827.7	812.1	812.1	827.7	827.7	843.3	838.0
47.5°	667.4	646.7	651.8	636.4	651.8	672.4	646.7	651.8
50°	501.8	501.8	491.5	501.8	496.5	501.8	491.5	481.1
52.5°	341.5	387.9	393.2	372.5	325.9	284.5	258.6	279.3
55°	196.6	175.9	175.9	170.6	160.3	155.2	139.6	155.2
57.5°	98.3	88.0	88.0	88.0	82.7	77.6	67.3	67.3
60°	41.3	36.3	36.3	31.0	25.9	20.7	15.6	20.7
62.5°	15.6	10.3	10.3	10.3	10.3	10.3	10.3	10.3
65°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
67.5°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
70°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
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)