

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: **LD4C70D010 EX4C709030 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: LD4C70D010 EX4C709030 4LBSQLWWLI  
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LBSQLWW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

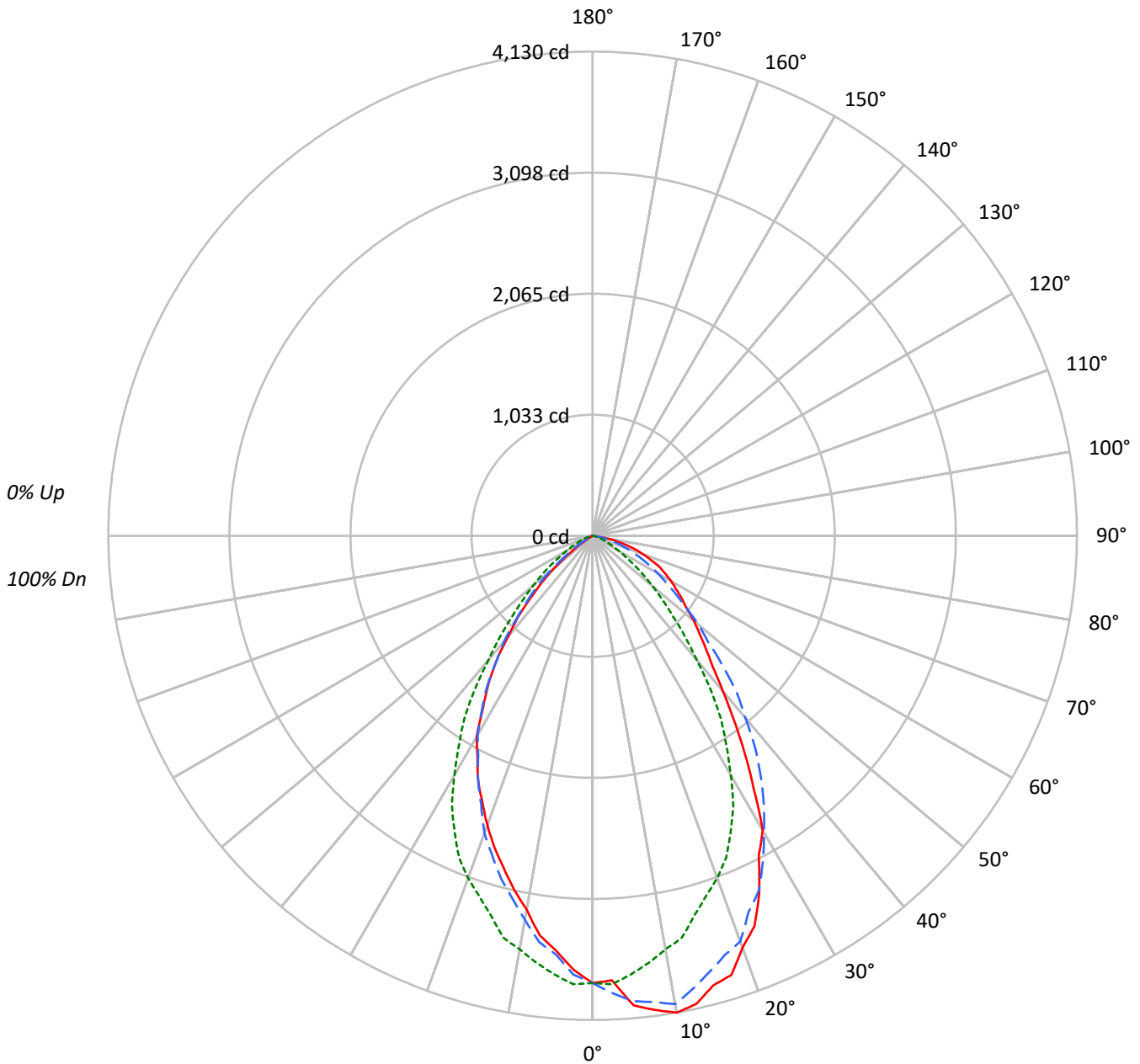
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5468.0 lumens  
Efficiency: N/A  
Efficacy: 70.1 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): 78  
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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CATALOG NUMBER: LD4C70D010 EX4C709030 4LBSQLWWLI

### 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			
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°	368067	368067	368067
5°	389415	363729	344231
10°	404676	350906	317280
15°	396584	334900	292875
20°	383720	318897	269580
25°	357920	296555	245921
30°	323106	262451	220158
35°	266149	224675	182647
40°	217201	173418	140568
45°	186617	131707	101114
50°	168904	100259	63857
55°	155421	72319	23097
60°	149191	49422	3531
65°	144088	33425	1073
70°	129011	23218	1326
75°	105765	11967	0
80°	66123	5056	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	357.4	6.5
10°-20°	962.9	17.6
20°-30°	1285.8	23.5
30°-40°	1220.6	22.3
40°-50°	843.7	15.4
50°-60°	466.2	8.5
60°-70°	231.5	4.2
70°-80°	91.2	1.7
80°-90°	8.7	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°	2606.1	47.7
0°-40°	3826.7	70.0
0°-60°	5136.6	93.9
0°-90°	5468.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5468.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3815	3815	3815	3815	3815	
5°	4020	3984	3755	3586	3554	385
15°	3970	3851	3353	3023	2932	1123
25°	3362	3348	2786	2310	2310	1533
35°	2260	2497	1907	1569	1551	1416
45°	1368	1569	965	791	741	1067
55°	924	869	430	220	137	832
65°	631	457	146	5	5	613
75°	284	174	32	0	0	302
85°	0	5	0	0	0	26
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°	3814.6	3814.6	3814.6	3814.6	3814.6	3814.6	3814.6	3814.6	3814.6	3814.6	3814.6
2.5°	3796.3	3901.5	3910.7	3901.5	3915.3	3910.7	3933.6	3910.7	3938.2	3897.0	3906.2
5°	4020.5	3979.3	4066.2	4020.5	4020.5	4016.0	4002.2	3997.6	4016.0	3956.5	3983.9
7.5°	4080.0	4139.5	4217.3	4121.2	4125.7	4125.7	4098.3	4089.1	4089.1	3979.3	4011.4
10°	4130.3	4093.6	4134.8	4098.3	4130.3	4125.7	4144.0	4084.5	4125.7	4061.7	4057.1
12.5°	4089.1	4075.3	4130.3	4070.9	4052.6	4057.1	4034.3	4020.5	4034.3	3961.0	3956.5
15°	3970.1	3983.9	4066.2	4002.2	3993.1	3983.9	3956.5	3910.7	3947.4	3846.7	3851.3
17.5°	3929.1	3906.2	3920.0	3865.0	3878.8	3869.6	3865.0	3823.9	3814.6	3750.6	3750.6
20°	3737.0	3787.2	3787.2	3750.6	3750.6	3746.1	3686.7	3723.2	3682.0	3663.7	3682.0
22.5°	3604.2	3608.9	3608.9	3576.8	3581.5	3563.2	3531.1	3508.2	3531.1	3508.2	3471.6
25°	3361.9	3371.1	3425.9	3366.4	3357.3	3375.6	3348.1	3334.3	3329.9	3275.0	3348.1
27.5°	3069.1	3160.5	3156.0	3133.1	3160.5	3124.0	3110.4	3114.8	3128.6	3124.0	3142.2
30°	2900.0	2913.6	2927.4	2909.1	2913.6	2900.0	2900.0	2904.5	2941.0	2927.4	2922.7
32.5°	2556.8	2602.5	2639.2	2639.2	2643.7	2657.5	2652.9	2748.9	2771.8	2726.1	2717.0
35°	2259.5	2291.6	2323.5	2328.1	2387.6	2392.1	2396.8	2424.2	2488.2	2502.0	2497.3
37.5°	1976.0	2007.9	2017.1	2058.3	2090.4	2122.2	2159.0	2195.5	2250.4	2296.1	2273.3
40°	1724.4	1738.0	1761.0	1779.3	1843.2	1843.2	1861.5	1934.8	1994.3	2030.9	2026.2
42.5°	1514.0	1518.5	1536.8	1568.9	1628.4	1614.6	1628.4	1678.7	1765.5	1770.1	1820.5
45°	1367.6	1363.0	1376.8	1381.3	1418.0	1436.3	1445.4	1482.0	1555.1	1564.2	1568.9
47.5°	1235.0	1230.4	1253.3	1262.5	1276.1	1294.4	1294.4	1299.0	1326.4	1349.4	1331.1
50°	1125.2	1125.2	1125.2	1134.3	1157.3	1152.6	1157.3	1175.5	1189.2	1180.0	1175.5
52.5°	1006.2	1024.5	1038.3	1042.9	1047.4	1047.4	1052.1	1042.9	1038.3	1024.5	997.1
55°	923.9	942.2	942.2	942.2	942.2	960.5	937.7	942.2	942.2	905.7	869.1
57.5°	841.7	860.0	873.6	855.3	873.6	855.3	846.2	841.7	832.4	795.8	741.0
60°	773.1	782.2	777.5	773.1	782.2	768.4	759.3	741.0	731.8	681.5	644.9
62.5°	695.3	699.8	704.4	695.3	686.2	681.5	663.2	635.8	617.5	576.3	544.2
65°	631.1	617.5	612.9	608.4	599.2	585.4	571.8	539.7	525.9	489.4	457.3
67.5°	535.1	530.6	539.7	525.9	503.2	503.2	489.4	462.0	429.9	407.1	375.1
70°	457.3	452.8	443.7	429.9	425.4	407.1	407.1	375.1	365.9	324.7	297.3
72.5°	375.1	375.1	361.3	347.6	333.8	324.7	320.2	297.3	283.7	260.7	237.8
75°	283.7	283.7	279.0	265.2	256.1	246.9	242.5	224.2	210.4	187.6	173.8
77.5°	201.2	201.2	183.0	173.8	178.3	169.2	160.0	155.5	150.9	137.3	119.0
80°	119.0	114.3	100.7	105.2	100.7	100.7	96.1	91.4	82.3	73.1	64.0
82.5°	32.1	36.6	36.6	36.6	41.2	32.1	32.1	32.1	36.6	36.6	22.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	4.7	4.7
87.5°	4.7	9.1	18.3	18.3	18.3	18.3	18.3	13.8	13.8	13.8	9.1
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°	3814.6	3814.6	3814.6	3814.6	3814.6	3814.6	3814.6	3814.6	3814.6	3814.6	3814.6
2.5°	3860.5	3855.8	3860.5	3828.4	3901.5	3846.7	3837.5	3828.4	3860.5	3828.4	3782.7
5°	3942.7	3897.0	3883.2	3869.6	3910.7	3846.7	3833.1	3837.5	3814.6	3755.3	3759.8
7.5°	3970.1	3929.1	3887.9	3801.0	3837.5	3823.9	3787.2	3759.8	3723.2	3672.9	3663.7
10°	3979.3	3933.6	3874.1	3846.7	3791.8	3773.6	3759.8	3714.1	3668.4	3581.5	3558.5
12.5°	3951.9	3897.0	3823.9	3801.0	3759.8	3700.3	3668.4	3622.5	3581.5	3512.8	3462.5
15°	3833.1	3787.2	3764.4	3686.7	3668.4	3631.6	3567.7	3503.7	3444.2	3352.6	3325.2
17.5°	3695.8	3677.5	3654.6	3595.1	3590.6	3554.0	3494.6	3439.5	3361.9	3220.0	3174.3
20°	3554.0	3554.0	3480.8	3458.0	3503.7	3430.4	3384.7	3334.3	3174.3	3105.7	3023.4
22.5°	3448.9	3398.5	3357.3	3320.7	3325.2	3279.5	3215.5	3114.8	3055.3	2973.1	2877.0
25°	3243.0	3261.2	3169.8	3156.0	3169.8	3064.5	3032.6	2950.1	2863.2	2785.5	2712.4
27.5°	3114.8	3064.5	3005.2	2954.8	2954.8	2913.6	2822.2	2803.9	2671.1	2598.0	2506.5
30°	2922.7	2886.2	2835.8	2762.7	2753.6	2721.5	2648.4	2602.5	2465.4	2355.6	2305.2
32.5°	2680.3	2666.7	2625.4	2543.2	2515.8	2479.0	2387.6	2309.9	2245.9	2122.2	2062.9
35°	2506.5	2456.3	2369.4	2300.7	2277.8	2213.8	2140.5	2085.7	2017.1	1907.4	1829.6
37.5°	2245.9	2195.5	2113.1	2030.9	2030.9	1966.9	1866.2	1811.3	1715.3	1651.1	1587.2
40°	2017.1	1953.1	1870.8	1774.8	1761.0	1669.4	1628.4	1536.8	1477.3	1376.8	1367.6
42.5°	1761.0	1701.5	1628.4	1555.1	1500.3	1454.6	1349.4	1280.7	1216.8	1166.4	1152.6
45°	1527.7	1449.9	1385.9	1294.4	1239.5	1184.7	1116.0	1070.4	1020.0	965.2	933.1
47.5°	1326.4	1262.5	1170.9	1088.6	1033.8	1006.2	928.4	878.3	837.0	800.5	777.5
50°	1120.7	1042.9	992.6	901.0	891.9	827.9	763.9	722.7	699.8	667.9	635.8
52.5°	965.2	891.9	823.2	754.8	718.0	695.3	635.8	594.6	562.7	539.7	521.5
55°	814.1	750.1	695.3	626.7	603.7	571.8	503.2	494.1	462.0	429.9	407.1
57.5°	699.8	640.3	576.3	530.6	489.4	466.6	411.6	375.1	356.8	329.4	306.4
60°	594.6	530.6	480.3	425.4	407.1	375.1	333.8	301.9	279.0	256.1	233.3
62.5°	498.5	443.7	388.9	343.0	315.6	297.3	265.2	237.8	215.0	196.8	178.3
65°	411.6	361.3	315.6	269.9	256.1	233.3	210.4	187.6	169.2	146.4	128.1
67.5°	338.5	292.8	246.9	215.0	201.2	192.1	164.7	141.7	128.1	114.3	96.1
70°	265.2	233.3	196.8	169.2	155.5	141.7	123.5	109.8	91.4	82.3	68.6
72.5°	205.9	178.3	146.4	123.5	114.3	105.2	86.9	73.1	64.0	54.8	45.7
75°	146.4	123.5	105.2	82.3	77.8	73.1	59.5	50.4	41.2	32.1	27.4
77.5°	100.7	82.3	64.0	54.8	50.4	41.2	36.6	27.4	22.9	18.3	13.8
80°	54.8	41.2	32.1	27.4	22.9	18.3	18.3	13.8	9.1	9.1	4.7
82.5°	18.3	13.8	9.1	4.7	4.7	4.7	4.7	4.7	4.7	0.0	4.7
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°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	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°	3814.6	3814.6	3814.6	3814.6	3814.6	3814.6	3814.6	3814.6	3814.6	3814.6	3814.6
2.5°	3810.1	3759.8	3773.6	3773.6	3764.4	3764.4	3755.3	3741.5	3746.1	3718.6	3659.2
5°	3768.9	3704.9	3695.8	3704.9	3668.4	3659.2	3641.0	3668.4	3585.9	3618.0	3581.5
7.5°	3650.1	3590.6	3576.8	3608.9	3563.2	3535.6	3531.1	3567.7	3494.6	3458.0	3416.8
10°	3517.3	3494.6	3453.3	3430.4	3416.8	3421.3	3384.7	3339.0	3325.2	3316.1	3279.5
12.5°	3398.5	3348.1	3311.6	3284.2	3275.0	3275.0	3215.5	3206.4	3165.2	3156.0	3101.2
15°	3256.6	3197.3	3174.3	3137.8	3105.7	3124.0	3055.3	3037.1	3023.4	2963.9	2973.1
17.5°	3133.1	3069.1	3014.3	2991.4	2963.9	2936.5	2872.4	2886.2	2854.1	2854.1	2771.8
20°	2973.1	2904.5	2863.2	2817.5	2817.5	2781.0	2735.3	2739.8	2698.6	2657.5	2584.2
22.5°	2803.9	2730.6	2680.3	2662.0	2616.3	2607.2	2552.3	2538.5	2483.7	2488.2	2424.2
25°	2625.4	2552.3	2483.7	2488.2	2447.1	2428.9	2396.8	2332.8	2309.9	2282.5	2264.2
27.5°	2415.1	2364.7	2305.2	2300.7	2223.0	2227.4	2186.4	2168.1	2113.1	2126.9	2085.7
30°	2223.0	2149.8	2094.8	2081.2	2049.1	2040.0	1976.0	1948.4	1957.7	1921.0	1898.3
32.5°	2026.2	1916.5	1893.6	1866.2	1847.9	1825.0	1779.3	1797.5	1756.3	1765.5	1728.9
35°	1765.5	1719.8	1660.3	1660.3	1642.0	1623.7	1591.8	1610.1	1568.9	1550.6	1514.0
37.5°	1545.9	1504.9	1445.4	1463.7	1431.6	1404.2	1376.8	1381.3	1344.7	1340.2	1303.5
40°	1308.2	1285.2	1244.2	1244.2	1221.2	1221.2	1207.4	1193.8	1170.9	1143.5	1102.3
42.5°	1084.0	1065.7	1047.4	1052.1	1020.0	1047.4	1010.9	1033.8	960.5	956.0	928.4
45°	919.3	878.3	882.7	864.5	846.2	855.3	823.2	832.4	791.3	782.2	754.8
47.5°	745.6	731.8	704.4	695.3	695.3	681.5	667.9	663.2	644.9	622.0	585.4
50°	612.9	562.7	553.4	539.7	530.6	530.6	512.3	484.9	489.4	466.6	429.9
52.5°	480.3	439.0	420.8	416.3	398.0	388.9	365.9	347.6	333.8	324.7	301.9
55°	370.4	333.8	311.1	311.1	283.7	283.7	251.6	237.8	219.5	201.2	187.6
57.5°	279.0	260.7	237.8	219.5	210.4	187.6	169.2	146.4	132.6	105.2	86.9
60°	210.4	192.1	169.2	155.5	146.4	123.5	100.7	82.3	50.4	41.2	36.6
62.5°	155.5	137.3	114.3	105.2	96.1	77.8	54.8	27.4	13.8	13.8	13.8
65°	114.3	91.4	73.1	64.0	54.8	41.2	18.3	9.1	4.7	4.7	4.7
67.5°	77.8	59.5	41.2	36.6	27.4	13.8	4.7	4.7	4.7	4.7	4.7
70°	50.4	36.6	18.3	13.8	9.1	4.7	4.7	4.7	4.7	4.7	4.7
72.5°	32.1	18.3	9.1	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	18.3	9.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	9.1	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	4.7	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	4.7	4.7	4.7
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: LD4C70D010 EX4C709030 4LBSQLWWLI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3814.6	3814.6	3814.6	3814.6	3814.6	3814.6	3814.6	3814.6
2.5°	3723.2	3691.1	3709.4	3668.4	3686.7	3718.6	3695.8	3704.9
5°	3595.1	3576.8	3554.0	3494.6	3540.2	3576.8	3558.5	3554.0
7.5°	3458.0	3393.8	3425.9	3407.6	3398.5	3435.1	3393.8	3439.5
10°	3316.1	3270.4	3265.9	3233.8	3233.8	3261.2	3265.9	3238.3
12.5°	3105.7	3082.9	3082.9	3078.3	3073.6	3101.2	3105.7	3092.1
15°	2954.8	2945.7	2922.7	2918.3	2890.8	2931.9	2936.5	2931.9
17.5°	2771.8	2776.3	2753.6	2753.6	2771.8	2785.5	2748.9	2785.5
20°	2648.4	2625.4	2616.3	2575.1	2598.0	2621.0	2621.0	2625.4
22.5°	2469.9	2433.3	2447.1	2424.2	2410.4	2442.5	2442.5	2456.3
25°	2268.7	2268.7	2277.8	2264.2	2273.3	2291.6	2277.8	2309.9
27.5°	2076.6	2094.8	2094.8	2076.6	2085.7	2140.5	2163.5	2126.9
30°	1898.3	1902.7	1916.5	1907.4	1934.8	1953.1	1948.4	1976.0
32.5°	1697.0	1719.8	1728.9	1715.3	1724.4	1765.5	1742.7	1738.0
35°	1541.5	1500.3	1495.8	1500.3	1518.5	1527.7	1518.5	1550.6
37.5°	1317.3	1303.5	1285.2	1289.9	1303.5	1321.9	1331.1	1353.8
40°	1102.3	1084.0	1084.0	1079.5	1065.7	1116.0	1116.0	1116.0
42.5°	914.8	910.1	887.4	887.4	905.7	919.3	910.1	942.2
45°	750.1	731.8	718.0	718.0	731.8	731.8	745.6	741.0
47.5°	590.1	571.8	576.3	562.7	576.3	594.6	571.8	576.3
50°	443.7	443.7	434.6	443.7	439.0	443.7	434.6	425.4
52.5°	301.9	343.0	347.6	329.4	288.2	251.6	228.7	246.9
55°	173.8	155.5	155.5	150.9	141.7	137.3	123.5	137.3
57.5°	86.9	77.8	77.8	77.8	73.1	68.6	59.5	59.5
60°	36.6	32.1	32.1	27.4	22.9	18.3	13.8	18.3
62.5°	13.8	9.1	9.1	9.1	9.1	9.1	9.1	9.1
65°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
67.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
70°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
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)