

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: **LD4C80D010 EX4C809030 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: LD4C80D010 EX4C809030 4LBSQLWWLI  
Description: 4 INCH 8000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LBSQLWW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

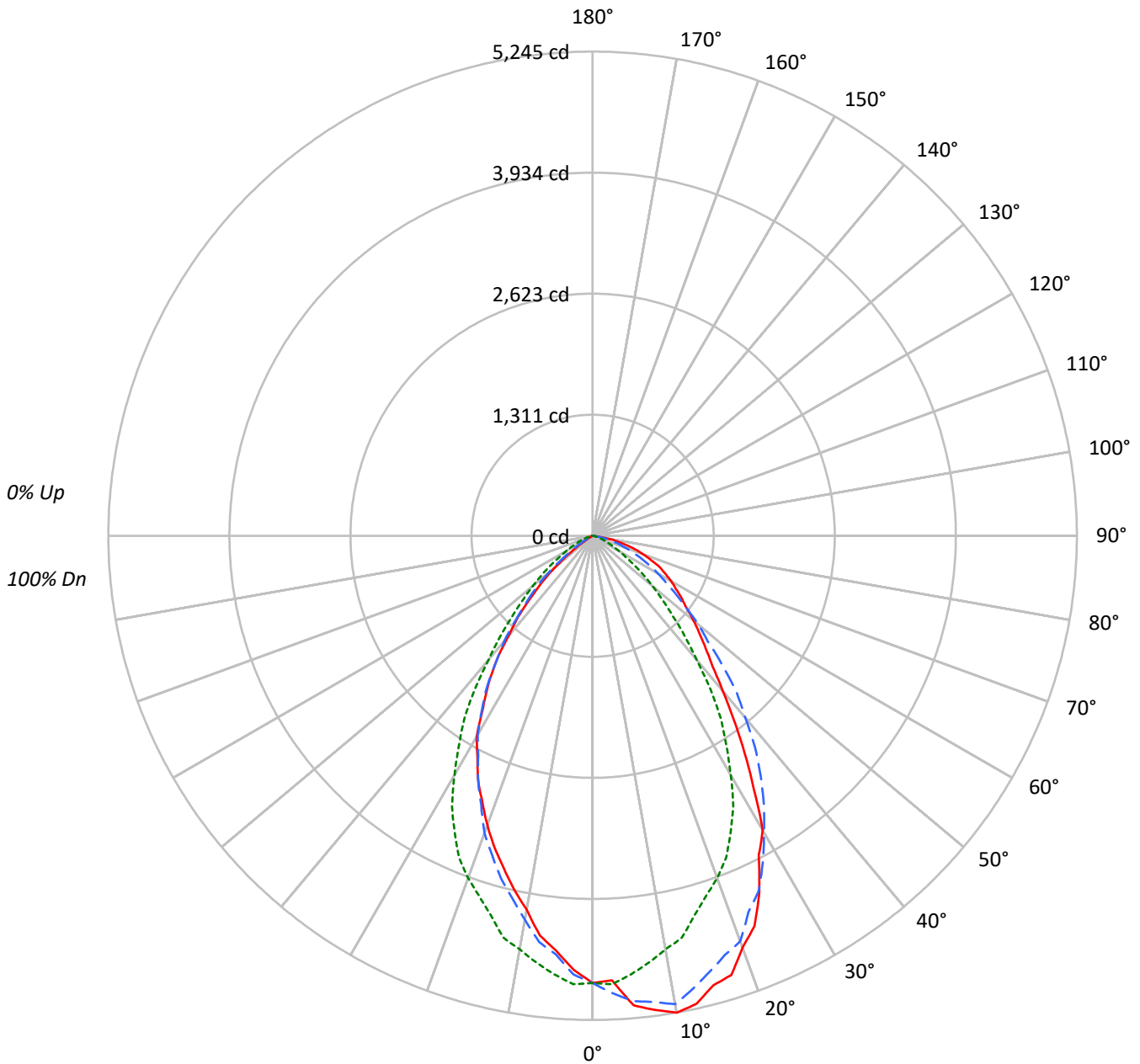
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6944.0 lumens  
Efficiency: N/A  
Efficacy: 77.6 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): 89.5  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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: LD4C80D010 EX4C809030 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°	467421	467421	467421
5°	494535	461913	437156
10°	513921	445621	402922
15°	503639	425303	371930
20°	487305	404975	342350
25°	454547	376605	312301
30°	410322	333289	279587
35°	337990	285326	231954
40°	275834	220224	178519
45°	236997	167254	128405
50°	214492	127323	81104
55°	197393	91833	29321
60°	189446	62756	4477
65°	182992	42443	1347
70°	163852	29481	1664
75°	134284	15173	0
80°	83960	6446	0
85°	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: LD4C80D010 EX4C809030 4LBSQLWWLI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	453.9	6.5
10°-20°	1222.8	17.6
20°-30°	1632.9	23.5
30°-40°	1550.1	22.3
40°-50°	1071.5	15.4
50°-60°	592.0	8.5
60°-70°	294.0	4.2
70°-80°	115.8	1.7
80°-90°	11.0	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°	3309.6	47.7
0°-40°	4859.7	70.0
0°-60°	6523.2	93.9
0°-90°	6944.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6944.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4844	4844	4844	4844	4844	
5°	5106	5059	4769	4554	4513	489
15°	5042	4891	4258	3840	3723	1426
25°	4270	4252	3537	2933	2933	1946
35°	2869	3171	2422	1992	1969	1798
45°	1737	1992	1226	1005	941	1355
55°	1173	1104	546	279	174	1056
65°	802	581	186	6	6	778
75°	360	221	41	0	0	384
85°	0	6	0	0	0	33
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: LD4C80D010 EX4C809030 4LBSQLWWLI

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	4844.3	4844.3	4844.3	4844.3	4844.3	4844.3	4844.3	4844.3	4844.3	4844.3	4844.3
2.5°	4821.1	4954.7	4966.3	4954.7	4972.2	4966.3	4995.4	4966.3	5001.3	4949.0	4960.6
5°	5105.8	5053.4	5163.8	5105.8	5105.8	5100.1	5082.6	5076.6	5100.1	5024.5	5059.3
7.5°	5181.3	5256.9	5355.6	5233.7	5239.4	5239.4	5204.5	5192.9	5192.9	5053.4	5094.2
10°	5245.3	5198.6	5251.0	5204.5	5245.3	5239.4	5262.6	5187.0	5239.4	5158.1	5152.2
12.5°	5192.9	5175.4	5245.3	5169.7	5146.5	5152.2	5123.3	5105.8	5123.3	5030.2	5024.5
15°	5041.8	5059.3	5163.8	5082.6	5071.0	5059.3	5024.5	4966.3	5012.9	4885.0	4890.9
17.5°	4989.7	4960.6	4978.1	4908.2	4925.8	4914.2	4908.2	4856.1	4844.3	4763.1	4763.1
20°	4745.8	4809.5	4809.5	4763.1	4763.1	4757.4	4681.8	4728.2	4675.9	4652.7	4675.9
22.5°	4577.1	4583.0	4583.0	4542.3	4548.2	4525.0	4484.3	4455.1	4484.3	4455.1	4408.7
25°	4269.5	4281.1	4350.7	4275.1	4263.5	4286.7	4251.9	4234.4	4228.7	4159.1	4251.9
27.5°	3897.6	4013.7	4008.0	3978.8	4013.7	3967.2	3949.9	3955.6	3973.2	3967.2	3990.4
30°	3682.8	3700.1	3717.6	3694.4	3700.1	3682.8	3682.8	3688.5	3734.9	3717.6	3711.7
32.5°	3247.0	3305.0	3351.7	3351.7	3357.3	3374.9	3369.0	3490.9	3520.1	3462.0	3450.4
35°	2869.4	2910.2	2950.7	2956.6	3032.1	3037.8	3043.8	3078.6	3159.8	3177.3	3171.4
37.5°	2509.4	2549.9	2561.5	2613.9	2654.6	2695.1	2741.8	2788.2	2857.8	2915.9	2887.0
40°	2189.9	2207.2	2236.3	2259.5	2340.8	2340.8	2364.0	2457.1	2532.6	2579.1	2573.1
42.5°	1922.7	1928.4	1951.6	1992.4	2067.9	2050.4	2067.9	2131.9	2242.0	2247.9	2311.9
45°	1736.8	1730.9	1748.4	1754.1	1800.8	1824.0	1835.6	1882.0	1974.9	1986.5	1992.4
47.5°	1568.4	1562.5	1591.6	1603.2	1620.5	1643.7	1643.7	1649.7	1684.5	1713.6	1690.4
50°	1428.9	1428.9	1428.9	1440.5	1469.7	1463.7	1469.7	1492.9	1510.2	1498.6	1492.9
52.5°	1277.8	1301.0	1318.5	1324.5	1330.1	1330.1	1336.1	1324.5	1318.5	1301.0	1266.2
55°	1173.4	1196.6	1196.6	1196.6	1196.6	1219.8	1190.9	1196.6	1196.6	1150.1	1103.7
57.5°	1068.9	1092.1	1109.4	1086.2	1109.4	1086.2	1074.6	1068.9	1057.1	1010.6	941.0
60°	981.7	993.3	987.4	981.7	993.3	975.8	964.2	941.0	929.4	865.5	819.0
62.5°	883.0	888.7	894.6	883.0	871.4	865.5	842.2	807.4	784.2	731.9	691.1
65°	801.5	784.2	778.3	772.6	761.0	743.5	726.2	685.4	667.9	621.5	580.8
67.5°	679.5	673.8	685.4	667.9	639.0	639.0	621.5	586.7	545.9	517.0	476.3
70°	580.8	575.1	563.5	545.9	540.3	517.0	517.0	476.3	464.7	412.4	377.5
72.5°	476.3	476.3	458.8	441.5	424.0	412.4	406.7	377.5	360.2	331.1	302.0
75°	360.2	360.2	354.3	336.8	325.2	313.6	307.9	284.7	267.2	238.3	220.7
77.5°	255.6	255.6	232.3	220.7	226.4	214.8	203.2	197.5	191.6	174.3	151.1
80°	151.1	145.2	127.9	133.6	127.9	127.9	122.0	116.1	104.5	92.8	81.2
82.5°	40.7	46.4	46.4	46.4	52.3	40.7	40.7	40.7	46.4	46.4	29.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	5.9	5.9
87.5°	5.9	11.6	23.2	23.2	23.2	23.2	23.2	17.5	17.5	17.5	11.6
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: LD4C80D010 EX4C809030 4LBSQLWWLI

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	4844.3	4844.3	4844.3	4844.3	4844.3	4844.3	4844.3	4844.3	4844.3	4844.3	4844.3
2.5°	4902.6	4896.6	4902.6	4861.8	4954.7	4885.0	4873.4	4861.8	4902.6	4861.8	4803.8
5°	5007.0	4949.0	4931.5	4914.2	4966.3	4885.0	4867.7	4873.4	4844.3	4769.0	4774.7
7.5°	5041.8	4989.7	4937.4	4827.0	4873.4	4856.1	4809.5	4774.7	4728.2	4664.3	4652.7
10°	5053.4	4995.4	4919.8	4885.0	4815.4	4792.2	4774.7	4716.6	4658.6	4548.2	4519.1
12.5°	5018.6	4949.0	4856.1	4827.0	4774.7	4699.1	4658.6	4600.3	4548.2	4461.1	4397.1
15°	4867.7	4809.5	4780.6	4681.8	4658.6	4611.9	4530.7	4449.5	4373.9	4257.6	4222.8
17.5°	4693.4	4670.2	4641.1	4565.5	4559.8	4513.4	4437.9	4368.0	4269.5	4089.2	4031.2
20°	4513.4	4513.4	4420.3	4391.4	4449.5	4356.4	4298.4	4234.4	4031.2	3944.0	3839.6
22.5°	4379.8	4315.9	4263.5	4217.1	4222.8	4164.8	4083.5	3955.6	3880.1	3775.6	3653.6
25°	4118.3	4141.6	4025.5	4008.0	4025.5	3891.7	3851.2	3746.5	3636.1	3537.4	3444.5
27.5°	3955.6	3891.7	3816.4	3752.4	3752.4	3700.1	3584.0	3560.8	3392.2	3299.3	3183.0
30°	3711.7	3665.3	3601.3	3508.5	3496.8	3456.1	3363.3	3305.0	3130.9	2991.4	2927.5
32.5°	3403.8	3386.5	3334.1	3229.7	3194.9	3148.2	3032.1	2933.4	2852.1	2695.1	2619.8
35°	3183.0	3119.3	3008.9	2921.8	2892.6	2811.4	2718.3	2648.7	2561.5	2422.3	2323.5
37.5°	2852.1	2788.2	2683.5	2579.1	2579.1	2497.8	2369.9	2300.3	2178.3	2096.8	2015.6
40°	2561.5	2480.3	2375.8	2253.9	2236.3	2120.0	2067.9	1951.6	1876.1	1748.4	1736.8
42.5°	2236.3	2160.8	2067.9	1974.9	1905.2	1847.2	1713.6	1626.4	1545.2	1481.3	1463.7
45°	1940.0	1841.3	1760.0	1643.7	1574.1	1504.5	1417.3	1359.3	1295.3	1225.7	1185.0
47.5°	1684.5	1603.2	1486.9	1382.5	1312.9	1277.8	1179.0	1115.3	1063.0	1016.6	987.4
50°	1423.2	1324.5	1260.5	1144.2	1132.6	1051.4	970.1	917.8	888.7	848.2	807.4
52.5°	1225.7	1132.6	1045.5	958.5	911.9	883.0	807.4	755.1	714.6	685.4	662.2
55°	1033.9	952.6	883.0	795.8	766.7	726.2	639.0	627.4	586.7	545.9	517.0
57.5°	888.7	813.1	731.9	673.8	621.5	592.6	522.7	476.3	453.1	418.3	389.1
60°	755.1	673.8	609.9	540.3	517.0	476.3	424.0	383.5	354.3	325.2	296.3
62.5°	633.1	563.5	493.8	435.6	400.8	377.5	336.8	302.0	273.1	249.9	226.4
65°	522.7	458.8	400.8	342.7	325.2	296.3	267.2	238.3	214.8	185.9	162.7
67.5°	429.9	371.9	313.6	273.1	255.6	244.0	209.1	180.0	162.7	145.2	122.0
70°	336.8	296.3	249.9	214.8	197.5	180.0	156.8	139.5	116.1	104.5	87.2
72.5°	261.5	226.4	185.9	156.8	145.2	133.6	110.4	92.8	81.2	69.6	58.0
75°	185.9	156.8	133.6	104.5	98.8	92.8	75.6	63.9	52.3	40.7	34.8
77.5°	127.9	104.5	81.2	69.6	63.9	52.3	46.4	34.8	29.1	23.2	17.5
80°	69.6	52.3	40.7	34.8	29.1	23.2	23.2	17.5	11.6	11.6	5.9
82.5°	23.2	17.5	11.6	5.9	5.9	5.9	5.9	5.9	5.9	0.0	5.9
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°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	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: LD4C80D010 EX4C809030 4LBSQLWWLI

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	4844.3	4844.3	4844.3	4844.3	4844.3	4844.3	4844.3	4844.3	4844.3	4844.3	4844.3
2.5°	4838.6	4774.7	4792.2	4792.2	4780.6	4780.6	4769.0	4751.4	4757.4	4722.3	4647.0
5°	4786.3	4705.0	4693.4	4705.0	4658.6	4647.0	4623.8	4658.6	4553.9	4594.6	4548.2
7.5°	4635.4	4559.8	4542.3	4583.0	4525.0	4490.0	4484.3	4530.7	4437.9	4391.4	4339.1
10°	4466.8	4437.9	4385.5	4356.4	4339.1	4344.8	4298.4	4240.3	4222.8	4211.2	4164.8
12.5°	4315.9	4251.9	4205.5	4170.7	4159.1	4159.1	4083.5	4071.9	4019.6	4008.0	3938.3
15°	4135.6	4060.3	4031.2	3984.8	3944.0	3967.2	3880.1	3856.9	3839.6	3764.0	3775.6
17.5°	3978.8	3897.6	3828.0	3798.8	3764.0	3729.2	3647.7	3665.3	3624.5	3624.5	3520.1
20°	3775.6	3688.5	3636.1	3578.1	3578.1	3531.7	3473.6	3479.3	3427.0	3374.9	3281.8
22.5°	3560.8	3467.7	3403.8	3380.6	3322.5	3310.9	3241.3	3223.8	3154.1	3159.8	3078.6
25°	3334.1	3241.3	3154.1	3159.8	3107.7	3084.5	3043.8	2962.5	2933.4	2898.6	2875.4
27.5°	3067.0	3003.0	2927.5	2921.8	2823.0	2828.7	2776.6	2753.4	2683.5	2701.0	2648.7
30°	2823.0	2730.2	2660.3	2643.0	2602.3	2590.7	2509.4	2474.4	2486.2	2439.6	2410.7
32.5°	2573.1	2433.9	2404.7	2369.9	2346.7	2317.6	2259.5	2282.8	2230.4	2242.0	2195.6
35°	2242.0	2184.0	2108.4	2108.4	2085.2	2062.0	2021.5	2044.7	1992.4	1969.2	1922.7
37.5°	1963.3	1911.1	1835.6	1858.8	1818.1	1783.2	1748.4	1754.1	1707.7	1702.0	1655.3
40°	1661.3	1632.1	1580.0	1580.0	1550.9	1550.9	1533.4	1516.1	1486.9	1452.1	1399.8
42.5°	1376.6	1353.4	1330.1	1336.1	1295.3	1330.1	1283.7	1312.9	1219.8	1214.1	1179.0
45°	1167.4	1115.3	1121.0	1097.8	1074.6	1086.2	1045.5	1057.1	1005.0	993.3	958.5
47.5°	946.9	929.4	894.6	883.0	883.0	865.5	848.2	842.2	819.0	789.9	743.5
50°	778.3	714.6	702.7	685.4	673.8	673.8	650.6	615.8	621.5	592.6	545.9
52.5°	609.9	557.5	534.3	528.6	505.4	493.8	464.7	441.5	424.0	412.4	383.5
55°	470.4	424.0	395.1	395.1	360.2	360.2	319.5	302.0	278.8	255.6	238.3
57.5°	354.3	331.1	302.0	278.8	267.2	238.3	214.8	185.9	168.4	133.6	110.4
60°	267.2	244.0	214.8	197.5	185.9	156.8	127.9	104.5	63.9	52.3	46.4
62.5°	197.5	174.3	145.2	133.6	122.0	98.8	69.6	34.8	17.5	17.5	17.5
65°	145.2	116.1	92.8	81.2	69.6	52.3	23.2	11.6	5.9	5.9	5.9
67.5°	98.8	75.6	52.3	46.4	34.8	17.5	5.9	5.9	5.9	5.9	5.9
70°	63.9	46.4	23.2	17.5	11.6	5.9	5.9	5.9	5.9	5.9	5.9
72.5°	40.7	23.2	11.6	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	23.2	11.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	11.6	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	5.9	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	5.9	5.9	5.9
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: LD4C80D010 EX4C809030 4LBSQLWWLI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4844.3	4844.3	4844.3	4844.3	4844.3	4844.3	4844.3	4844.3
2.5°	4728.2	4687.5	4710.7	4658.6	4681.8	4722.3	4693.4	4705.0
5°	4565.5	4542.3	4513.4	4437.9	4495.9	4542.3	4519.1	4513.4
7.5°	4391.4	4310.0	4350.7	4327.5	4315.9	4362.3	4310.0	4368.0
10°	4211.2	4153.2	4147.5	4106.7	4106.7	4141.6	4147.5	4112.4
12.5°	3944.0	3915.1	3915.1	3909.2	3903.3	3938.3	3944.0	3926.7
15°	3752.4	3740.8	3711.7	3706.0	3671.2	3723.3	3729.2	3723.3
17.5°	3520.1	3525.7	3496.8	3496.8	3520.1	3537.4	3490.9	3537.4
20°	3363.3	3334.1	3322.5	3270.2	3299.3	3328.4	3328.4	3334.1
22.5°	3136.6	3090.2	3107.7	3078.6	3061.1	3101.8	3101.8	3119.3
25°	2881.0	2881.0	2892.6	2875.4	2887.0	2910.2	2892.6	2933.4
27.5°	2637.1	2660.3	2660.3	2637.1	2648.7	2718.3	2747.5	2701.0
30°	2410.7	2416.3	2433.9	2422.3	2457.1	2480.3	2474.4	2509.4
32.5°	2155.1	2184.0	2195.6	2178.3	2189.9	2242.0	2213.1	2207.2
35°	1957.6	1905.2	1899.5	1905.2	1928.4	1940.0	1928.4	1969.2
37.5°	1672.9	1655.3	1632.1	1638.1	1655.3	1678.8	1690.4	1719.3
40°	1399.8	1376.6	1376.6	1370.9	1353.4	1417.3	1417.3	1417.3
42.5°	1161.7	1155.8	1126.9	1126.9	1150.1	1167.4	1155.8	1196.6
45°	952.6	929.4	911.9	911.9	929.4	929.4	946.9	941.0
47.5°	749.4	726.2	731.9	714.6	731.9	755.1	726.2	731.9
50°	563.5	563.5	551.9	563.5	557.5	563.5	551.9	540.3
52.5°	383.5	435.6	441.5	418.3	365.9	319.5	290.4	313.6
55°	220.7	197.5	197.5	191.6	180.0	174.3	156.8	174.3
57.5°	110.4	98.8	98.8	98.8	92.8	87.2	75.6	75.6
60°	46.4	40.7	40.7	34.8	29.1	23.2	17.5	23.2
62.5°	17.5	11.6	11.6	11.6	11.6	11.6	11.6	11.6
65°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
67.5°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
70°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
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)