

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 EX4C809050 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 EX4C809050 4LBSQLWWLI  
Description: 4 INCH 8000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 4LBSQLWW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

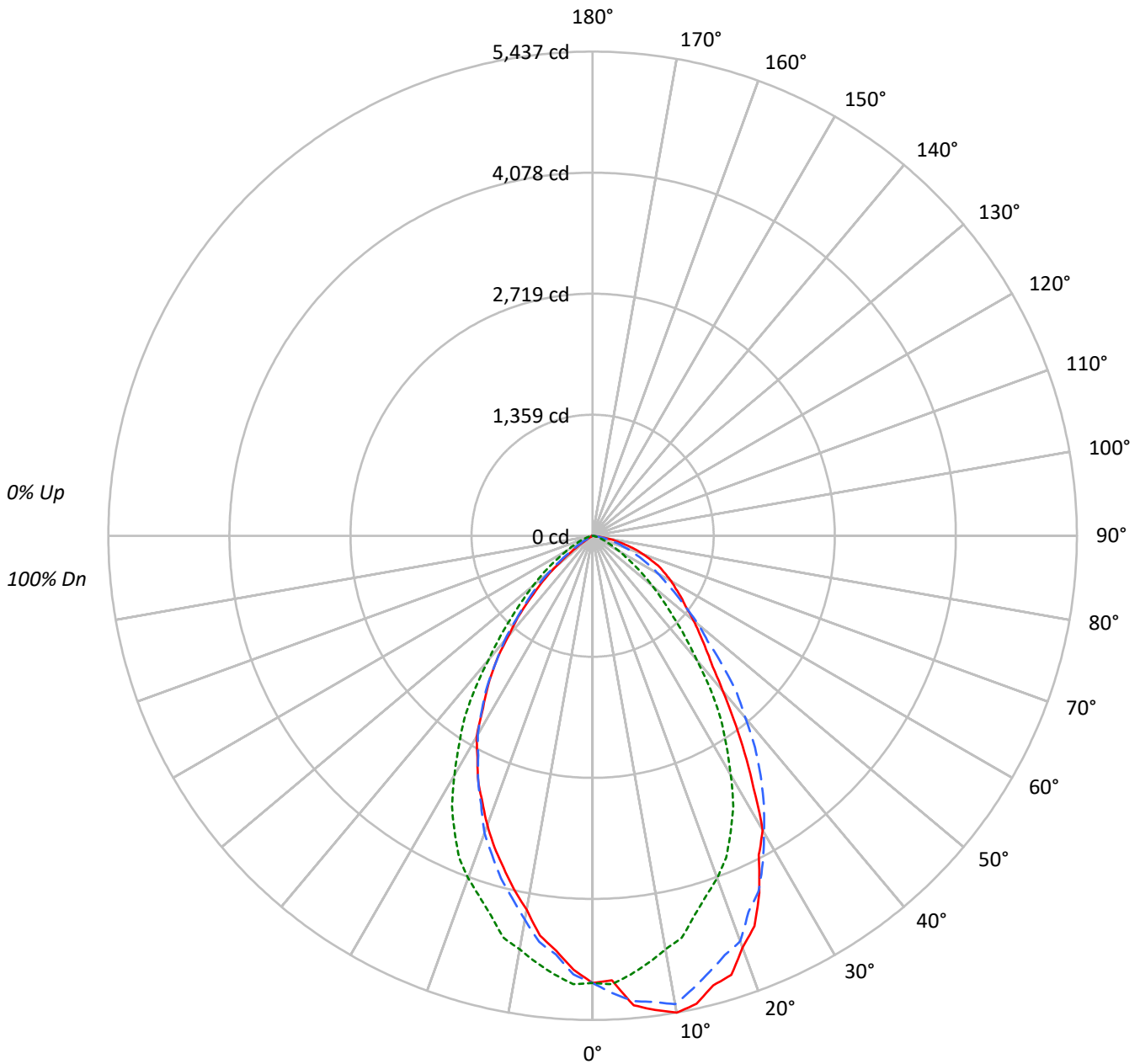
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7198.0 lumens  
Efficiency: N/A  
Efficacy: 80.4 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

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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	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°	484519	484519	484519
5°	512618	478805	453148
10°	532713	461924	417668
15°	522059	440866	385536
20°	505120	419792	354877
25°	471166	390371	323724
30°	425330	345478	289815
35°	350358	295762	240435
40°	285923	228285	185056
45°	245662	173367	133099
50°	222343	131977	84062
55°	204610	95198	30398
60°	196374	65053	4651
65°	189682	43996	1393
70°	169833	30553	1721
75°	139205	15732	0
80°	87016	6668	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	470.5	6.5
10°-20°	1267.6	17.6
20°-30°	1692.6	23.5
30°-40°	1606.8	22.3
40°-50°	1110.7	15.4
50°-60°	613.7	8.5
60°-70°	304.7	4.2
70°-80°	120.1	1.7
80°-90°	11.4	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°	3430.6	47.7
0°-40°	5037.4	70.0
0°-60°	6761.8	93.9
0°-90°	7198.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7198.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	5022	5022	5022	5022	5022	
5°	5292	5244	4943	4720	4678	507
15°	5226	5070	4413	3980	3860	1478
25°	4426	4408	3667	3041	3041	2018
35°	2974	3287	2511	2065	2041	1863
45°	1800	2065	1270	1042	975	1404
55°	1216	1144	566	289	181	1095
65°	831	602	193	6	6	806
75°	373	229	42	0	0	398
85°	0	6	0	0	0	34
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°	5021.5	5021.5	5021.5	5021.5	5021.5	5021.5	5021.5	5021.5	5021.5	5021.5	5021.5
2.5°	4997.4	5135.9	5147.9	5135.9	5154.1	5147.9	5178.1	5147.9	5184.3	5130.0	5142.0
5°	5292.5	5238.3	5352.7	5292.5	5292.5	5286.6	5268.5	5262.3	5286.6	5208.3	5244.4
7.5°	5370.8	5449.2	5551.5	5425.1	5431.0	5431.0	5394.9	5382.9	5382.9	5238.3	5280.5
10°	5437.1	5388.8	5443.0	5394.9	5437.1	5431.0	5455.1	5376.7	5431.0	5346.8	5340.7
12.5°	5382.9	5364.7	5437.1	5358.8	5334.8	5340.7	5310.7	5292.5	5310.7	5214.2	5208.3
15°	5226.2	5244.4	5352.7	5268.5	5256.4	5244.4	5208.3	5147.9	5196.3	5063.7	5069.8
17.5°	5172.2	5142.0	5160.2	5087.8	5105.9	5093.9	5087.8	5033.8	5021.5	4937.3	4937.3
20°	4919.3	4985.4	4985.4	4937.3	4937.3	4931.4	4853.1	4901.2	4846.9	4822.9	4846.9
22.5°	4744.5	4750.7	4750.7	4708.5	4714.6	4690.5	4648.3	4618.1	4648.3	4618.1	4570.0
25°	4425.6	4437.7	4509.8	4431.5	4419.5	4443.5	4407.5	4389.3	4383.4	4311.2	4407.5
27.5°	4040.2	4160.5	4154.6	4124.4	4160.5	4112.4	4094.4	4100.3	4118.5	4112.4	4136.4
30°	3817.5	3835.4	3853.6	3829.5	3835.4	3817.5	3817.5	3823.4	3871.5	3853.6	3847.4
32.5°	3365.7	3425.9	3474.3	3474.3	3480.2	3498.3	3492.2	3618.6	3648.8	3588.7	3576.6
35°	2974.4	3016.6	3058.6	3064.7	3143.1	3149.0	3155.1	3191.2	3275.4	3293.6	3287.4
37.5°	2601.2	2643.2	2655.2	2709.5	2751.7	2793.7	2842.1	2890.2	2962.4	3022.5	2992.6
40°	2270.0	2287.9	2318.1	2342.2	2426.4	2426.4	2450.5	2547.0	2625.3	2673.4	2667.3
42.5°	1993.1	1999.0	2023.0	2065.3	2143.6	2125.4	2143.6	2209.9	2324.0	2330.2	2396.5
45°	1800.3	1794.2	1812.4	1818.3	1866.6	1890.7	1902.7	1950.8	2047.1	2059.1	2065.3
47.5°	1625.8	1619.7	1649.8	1661.9	1679.8	1703.9	1703.9	1710.0	1746.1	1776.3	1752.2
50°	1481.2	1481.2	1481.2	1493.2	1523.4	1517.3	1523.4	1547.5	1565.4	1553.4	1547.5
52.5°	1324.5	1348.6	1366.8	1372.9	1378.8	1378.8	1384.9	1372.9	1366.8	1348.6	1312.5
55°	1216.3	1240.3	1240.3	1240.3	1240.3	1264.4	1234.4	1240.3	1240.3	1192.2	1144.1
57.5°	1108.0	1132.1	1150.0	1125.9	1150.0	1125.9	1113.9	1108.0	1095.7	1047.6	975.4
60°	1017.6	1029.7	1023.5	1017.6	1029.7	1011.5	999.5	975.4	963.4	897.1	849.0
62.5°	915.3	921.2	927.3	915.3	903.2	897.1	873.0	837.0	812.9	758.6	716.4
65°	830.8	812.9	806.8	800.9	788.8	770.7	752.7	710.5	692.4	644.2	602.0
67.5°	704.4	698.5	710.5	692.4	662.4	662.4	644.2	608.1	565.9	536.0	493.7
70°	602.0	596.1	584.1	565.9	560.0	536.0	536.0	493.7	481.7	427.4	391.3
72.5°	493.7	493.7	475.6	457.6	439.5	427.4	421.5	391.3	373.4	343.2	313.0
75°	373.4	373.4	367.3	349.1	337.1	325.1	319.2	295.1	276.9	247.0	228.8
77.5°	264.9	264.9	240.8	228.8	234.7	222.7	210.7	204.8	198.6	180.7	156.6
80°	156.6	150.5	132.6	138.5	132.6	132.6	126.4	120.3	108.3	96.2	84.2
82.5°	42.2	48.1	48.1	48.1	54.3	42.2	42.2	42.2	48.1	48.1	30.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	6.1	6.1
87.5°	6.1	12.0	24.1	24.1	24.1	24.1	24.1	18.2	18.2	18.2	12.0
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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	5021.5	5021.5	5021.5	5021.5	5021.5	5021.5	5021.5	5021.5	5021.5	5021.5	5021.5
2.5°	5081.9	5075.7	5081.9	5039.7	5135.9	5063.7	5051.7	5039.7	5081.9	5039.7	4979.5
5°	5190.2	5130.0	5111.8	5093.9	5147.9	5063.7	5045.8	5051.7	5021.5	4943.4	4949.3
7.5°	5226.2	5172.2	5118.0	5003.6	5051.7	5033.8	4985.4	4949.3	4901.2	4834.9	4822.9
10°	5238.3	5178.1	5099.8	5063.7	4991.5	4967.5	4949.3	4889.2	4829.0	4714.6	4684.4
12.5°	5202.2	5130.0	5033.8	5003.6	4949.3	4871.0	4829.0	4768.6	4714.6	4624.2	4558.0
15°	5045.8	4985.4	4955.4	4853.1	4829.0	4780.6	4696.4	4612.2	4533.9	4413.4	4377.3
17.5°	4865.1	4841.0	4810.8	4732.5	4726.6	4678.5	4600.2	4527.8	4425.6	4238.8	4178.6
20°	4678.5	4678.5	4582.0	4552.1	4612.2	4515.7	4455.6	4389.3	4178.6	4088.3	3980.0
22.5°	4540.0	4473.7	4419.5	4371.4	4377.3	4317.1	4232.9	4100.3	4022.0	3913.7	3787.3
25°	4269.0	4293.0	4172.7	4154.6	4172.7	4034.0	3992.0	3883.5	3769.1	3666.7	3570.5
27.5°	4100.3	4034.0	3956.0	3889.7	3889.7	3835.4	3715.1	3691.0	3516.2	3420.0	3299.5
30°	3847.4	3799.3	3733.0	3636.8	3624.8	3582.5	3486.3	3425.9	3245.4	3100.8	3034.5
32.5°	3528.3	3510.3	3456.1	3347.8	3311.7	3263.4	3143.1	3040.7	2956.5	2793.7	2715.6
35°	3299.5	3233.4	3119.0	3028.7	2998.5	2914.2	2817.8	2745.6	2655.2	2510.9	2408.5
37.5°	2956.5	2890.2	2781.7	2673.4	2673.4	2589.2	2456.6	2384.4	2258.0	2173.5	2089.3
40°	2655.2	2571.0	2462.7	2336.3	2318.1	2197.6	2143.6	2023.0	1944.7	1812.4	1800.3
42.5°	2318.1	2239.8	2143.6	2047.1	1974.9	1914.8	1776.3	1685.9	1601.7	1535.4	1517.3
45°	2011.0	1908.6	1824.4	1703.9	1631.7	1559.5	1469.2	1409.0	1342.7	1270.5	1228.3
47.5°	1746.1	1661.9	1541.3	1433.1	1360.9	1324.5	1222.2	1156.1	1101.9	1053.7	1023.5
50°	1475.3	1372.9	1306.6	1186.1	1174.0	1089.8	1005.6	951.4	921.2	879.2	837.0
52.5°	1270.5	1174.0	1083.7	993.6	945.2	915.3	837.0	782.7	740.7	710.5	686.5
55°	1071.7	987.5	915.3	824.9	794.7	752.7	662.4	650.4	608.1	565.9	536.0
57.5°	921.2	842.9	758.6	698.5	644.2	614.3	541.9	493.7	469.7	433.6	403.4
60°	782.7	698.5	632.2	560.0	536.0	493.7	439.5	397.5	367.3	337.1	307.1
62.5°	656.3	584.1	511.9	451.5	415.4	391.3	349.1	313.0	283.1	259.0	234.7
65°	541.9	475.6	415.4	355.3	337.1	307.1	276.9	247.0	222.7	192.7	168.7
67.5°	445.6	385.5	325.1	283.1	264.9	252.9	216.8	186.6	168.7	150.5	126.4
70°	349.1	307.1	259.0	222.7	204.8	186.6	162.5	144.6	120.3	108.3	90.3
72.5°	271.0	234.7	192.7	162.5	150.5	138.5	114.4	96.2	84.2	72.2	60.2
75°	192.7	162.5	138.5	108.3	102.4	96.2	78.3	66.3	54.3	42.2	36.1
77.5°	132.6	108.3	84.2	72.2	66.3	54.3	48.1	36.1	30.2	24.1	18.2
80°	72.2	54.3	42.2	36.1	30.2	24.1	24.1	18.2	12.0	12.0	6.1
82.5°	24.1	18.2	12.0	6.1	6.1	6.1	6.1	6.1	6.1	0.0	6.1
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°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	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°	5021.5	5021.5	5021.5	5021.5	5021.5	5021.5	5021.5	5021.5	5021.5	5021.5	5021.5
2.5°	5015.6	4949.3	4967.5	4967.5	4955.4	4955.4	4943.4	4925.2	4931.4	4895.0	4817.0
5°	4961.3	4877.1	4865.1	4877.1	4829.0	4817.0	4792.9	4829.0	4720.5	4762.7	4714.6
7.5°	4804.9	4726.6	4708.5	4750.7	4690.5	4654.2	4648.3	4696.4	4600.2	4552.1	4497.8
10°	4630.1	4600.2	4545.9	4515.7	4497.8	4503.7	4455.6	4395.4	4377.3	4365.2	4317.1
12.5°	4473.7	4407.5	4359.3	4323.2	4311.2	4311.2	4232.9	4220.9	4166.6	4154.6	4082.4
15°	4286.9	4208.8	4178.6	4130.5	4088.3	4112.4	4022.0	3997.9	3980.0	3901.7	3913.7
17.5°	4124.4	4040.2	3968.0	3937.8	3901.7	3865.6	3781.2	3799.3	3757.1	3757.1	3648.8
20°	3913.7	3823.4	3769.1	3709.0	3709.0	3660.8	3600.7	3606.6	3552.3	3498.3	3401.8
22.5°	3691.0	3594.6	3528.3	3504.2	3444.1	3432.0	3359.8	3341.7	3269.5	3275.4	3191.2
25°	3456.1	3359.8	3269.5	3275.4	3221.4	3197.3	3155.1	3070.9	3040.7	3004.6	2980.5
27.5°	3179.2	3112.9	3034.5	3028.7	2926.3	2932.2	2878.2	2854.1	2781.7	2799.8	2745.6
30°	2926.3	2830.0	2757.6	2739.7	2697.5	2685.4	2601.2	2564.9	2577.1	2528.8	2498.8
32.5°	2667.3	2522.9	2492.7	2456.6	2432.5	2402.4	2342.2	2366.3	2312.0	2324.0	2275.9
35°	2324.0	2263.9	2185.6	2185.6	2161.5	2137.4	2095.5	2119.5	2065.3	2041.2	1993.1
37.5°	2035.1	1981.0	1902.7	1926.8	1884.6	1848.5	1812.4	1818.3	1770.2	1764.3	1715.9
40°	1722.0	1691.8	1637.8	1637.8	1607.6	1607.6	1589.5	1571.5	1541.3	1505.2	1451.0
42.5°	1426.9	1402.9	1378.8	1384.9	1342.7	1378.8	1330.7	1360.9	1264.4	1258.5	1222.2
45°	1210.1	1156.1	1162.0	1138.0	1113.9	1125.9	1083.7	1095.7	1041.7	1029.7	993.6
47.5°	981.6	963.4	927.3	915.3	915.3	897.1	879.2	873.0	849.0	818.8	770.7
50°	806.8	740.7	728.4	710.5	698.5	698.5	674.4	638.3	644.2	614.3	565.9
52.5°	632.2	577.9	553.9	548.0	523.9	511.9	481.7	457.6	439.5	427.4	397.5
55°	487.6	439.5	409.5	409.5	373.4	373.4	331.2	313.0	289.0	264.9	247.0
57.5°	367.3	343.2	313.0	289.0	276.9	247.0	222.7	192.7	174.6	138.5	114.4
60°	276.9	252.9	222.7	204.8	192.7	162.5	132.6	108.3	66.3	54.3	48.1
62.5°	204.8	180.7	150.5	138.5	126.4	102.4	72.2	36.1	18.2	18.2	18.2
65°	150.5	120.3	96.2	84.2	72.2	54.3	24.1	12.0	6.1	6.1	6.1
67.5°	102.4	78.3	54.3	48.1	36.1	18.2	6.1	6.1	6.1	6.1	6.1
70°	66.3	48.1	24.1	18.2	12.0	6.1	6.1	6.1	6.1	6.1	6.1
72.5°	42.2	24.1	12.0	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	24.1	12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	12.0	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	6.1	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	6.1	6.1	6.1
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 EX4C809050 4LBSQLWWLI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	5021.5	5021.5	5021.5	5021.5	5021.5	5021.5	5021.5	5021.5
2.5°	4901.2	4859.0	4883.0	4829.0	4853.1	4895.0	4865.1	4877.1
5°	4732.5	4708.5	4678.5	4600.2	4660.3	4708.5	4684.4	4678.5
7.5°	4552.1	4467.6	4509.8	4485.8	4473.7	4521.9	4467.6	4527.8
10°	4365.2	4305.1	4299.2	4257.0	4257.0	4293.0	4299.2	4262.9
12.5°	4088.3	4058.3	4058.3	4052.2	4046.1	4082.4	4088.3	4070.4
15°	3889.7	3877.6	3847.4	3841.5	3805.5	3859.5	3865.6	3859.5
17.5°	3648.8	3654.7	3624.8	3624.8	3648.8	3666.7	3618.6	3666.7
20°	3486.3	3456.1	3444.1	3389.8	3420.0	3450.2	3450.2	3456.1
22.5°	3251.3	3203.2	3221.4	3191.2	3173.0	3215.2	3215.2	3233.4
25°	2986.4	2986.4	2998.5	2980.5	2992.6	3016.6	2998.5	3040.7
27.5°	2733.5	2757.6	2757.6	2733.5	2745.6	2817.8	2848.0	2799.8
30°	2498.8	2504.7	2522.9	2510.9	2547.0	2571.0	2564.9	2601.2
32.5°	2233.9	2263.9	2275.9	2258.0	2270.0	2324.0	2294.1	2287.9
35°	2029.2	1974.9	1969.0	1974.9	1999.0	2011.0	1999.0	2041.2
37.5°	1734.1	1715.9	1691.8	1698.0	1715.9	1740.2	1752.2	1782.2
40°	1451.0	1426.9	1426.9	1421.0	1402.9	1469.2	1469.2	1469.2
42.5°	1204.2	1198.1	1168.2	1168.2	1192.2	1210.1	1198.1	1240.3
45°	987.5	963.4	945.2	945.2	963.4	963.4	981.6	975.4
47.5°	776.8	752.7	758.6	740.7	758.6	782.7	752.7	758.6
50°	584.1	584.1	572.0	584.1	577.9	584.1	572.0	560.0
52.5°	397.5	451.5	457.6	433.6	379.3	331.2	301.0	325.1
55°	228.8	204.8	204.8	198.6	186.6	180.7	162.5	180.7
57.5°	114.4	102.4	102.4	102.4	96.2	90.3	78.3	78.3
60°	48.1	42.2	42.2	36.1	30.2	24.1	18.2	24.1
62.5°	18.2	12.0	12.0	12.0	12.0	12.0	12.0	12.0
65°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
67.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
70°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
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)