

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: P879454

Luminaire Tested: **LD4C55D010 EU4559040 4LBDWWH**

Issue Date: 10/1/2024

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: P879454
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-6)
Test Lab: INNOVATION CENTER
Issue Date: 10/1/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C55D010 EU4559040 4LBLDWWH
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBLDWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

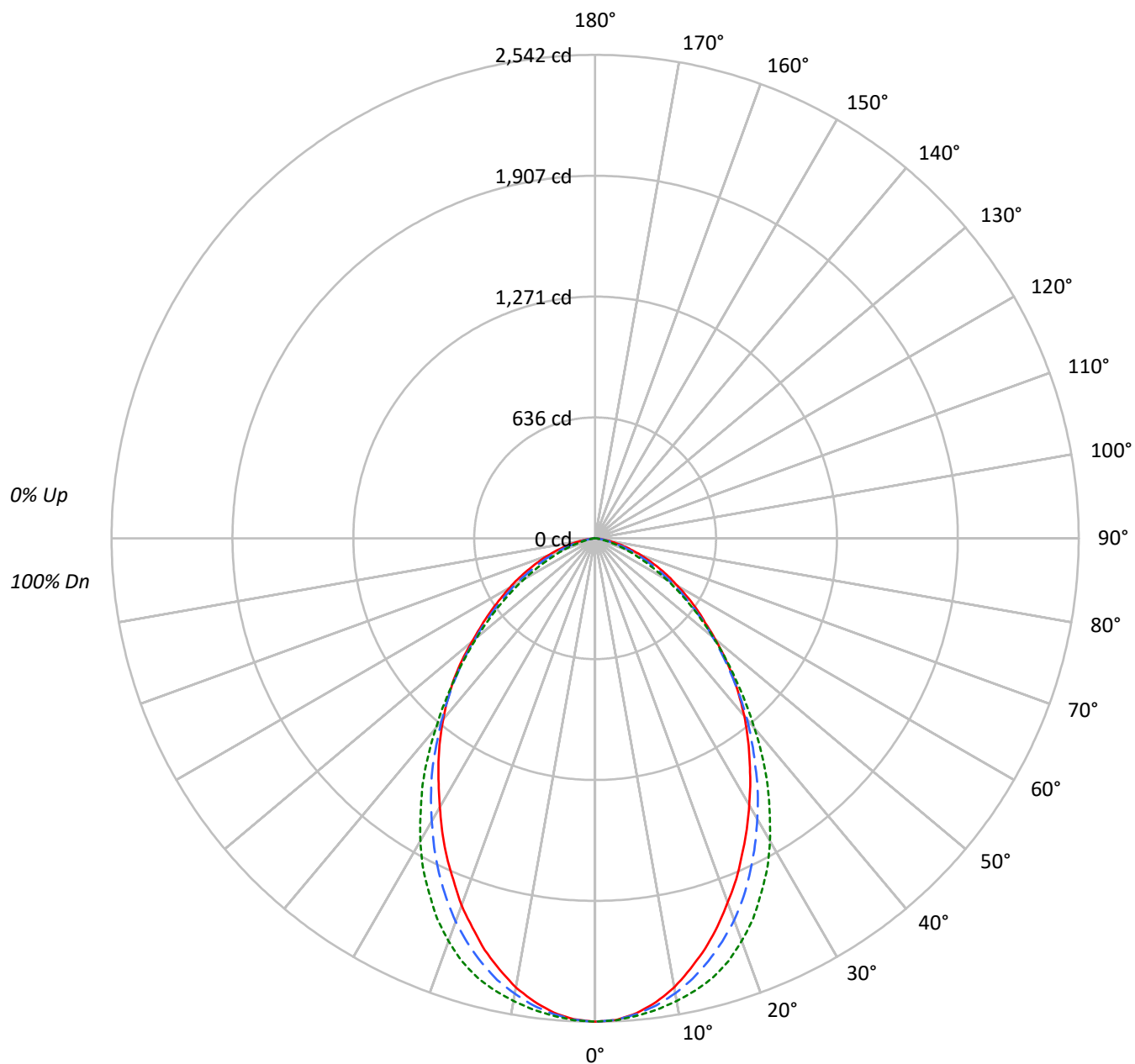
Lumens per Lamp: N/A
Luminaire Lumens: 4547.0 lumens
Efficiency: N/A
Efficacy: 71.2 lumens/watt
Spacing Criteria (0/90/45): 1 / 1.1 / 1.12
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 63.9
Input Voltage (V): NR
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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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88		
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77		
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67		
4	88	77	70	64	86	76	69	63	74	68	63	71	66	62	69	65	61	59		
5	81	70	62	56	80	69	62	56	67	61	56	65	59	55	63	58	54	52		
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47		
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42		
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38		
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35		
10	59	46	39	34	57	46	39	34	45	39	34	44	38	34	43	38	34	32		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	312306	312306	312306
5°	309133	310860	308788
10°	299073	308167	299197
15°	284149	304207	285090
20°	266326	294644	268523
25°	248036	279553	250314
30°	229783	260765	231500
35°	211977	237053	215201
40°	195544	208855	199136
45°	177129	181021	182480
50°	157029	155061	160947
55°	139972	130569	143164
60°	122485	105973	127080
65°	107209	81947	110988
70°	90195	60022	94901
75°	70441	39018	74428
80°	46270	20446	50868
85°	15787	9162	21003



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.3	5.2
10°-20°	648.4	14.3
20°-30°	891.8	19.6
30°-40°	930.3	20.5
40°-50°	795.9	17.5
50°-60°	569.3	12.5
60°-70°	330.4	7.3
70°-80°	127.4	2.8
80°-90°	16.2	0.4
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°	1777.5	39.1
0°-40°	2707.8	59.6
0°-60°	4073.1	89.6
0°-90°	4547.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4547.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2542	2542	2542	2542	2542	
5°	2507	2511	2521	2511	2504	236
15°	2234	2301	2392	2310	2242	626
25°	1830	1931	2062	1943	1847	842
35°	1413	1470	1581	1493	1435	885
45°	1020	1011	1042	1036	1050	786
55°	654	621	610	638	668	584
65°	369	326	282	337	382	368
75°	148	111	82	118	157	160
85°	11	8	6	9	15	22
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°	2542.1	2542.1	2542.1	2542.1	2542.1	2542.1	2542.1	2542.1	2542.1	2542.1	2542.1
2.5°	2535.6	2533.7	2534.7	2534.7	2534.7	2533.7	2535.6	2535.6	2534.7	2534.7	2534.7
5°	2506.7	2504.8	2505.7	2506.7	2506.7	2506.7	2507.6	2508.5	2509.5	2510.4	2511.3
7.5°	2460.0	2457.2	2460.0	2463.7	2463.7	2464.7	2465.6	2466.5	2469.3	2474.0	2476.8
10°	2397.4	2397.4	2398.4	2401.2	2405.8	2404.9	2407.7	2412.4	2418.0	2424.5	2429.2
12.5°	2318.1	2320.0	2322.8	2325.6	2330.2	2333.0	2337.7	2343.3	2352.6	2362.0	2372.2
15°	2234.1	2235.0	2235.9	2242.5	2247.1	2253.7	2257.4	2268.6	2277.0	2290.1	2301.3
17.5°	2139.8	2138.8	2141.6	2147.2	2158.4	2161.2	2165.9	2178.0	2190.2	2207.9	2222.9
20°	2037.1	2042.7	2046.4	2053.9	2060.4	2067.9	2071.6	2086.6	2100.6	2117.4	2137.0
22.5°	1940.0	1935.3	1941.9	1950.3	1955.9	1961.5	1968.0	1983.9	1998.8	2019.3	2038.9
25°	1829.8	1832.6	1837.3	1843.8	1851.3	1858.8	1866.2	1883.0	1891.4	1912.9	1930.7
27.5°	1725.3	1729.9	1731.8	1740.2	1746.7	1752.3	1756.1	1775.7	1783.1	1801.8	1819.6
30°	1619.8	1624.4	1624.4	1633.8	1638.4	1644.0	1653.4	1666.4	1677.6	1690.7	1703.8
32.5°	1518.0	1518.0	1521.7	1530.1	1534.8	1541.3	1544.1	1553.5	1564.7	1577.8	1591.8
35°	1413.4	1416.2	1420.0	1420.0	1428.4	1432.1	1435.9	1445.2	1452.7	1458.3	1469.5
37.5°	1317.3	1317.3	1314.5	1319.2	1324.8	1323.8	1329.4	1334.1	1338.8	1345.3	1354.6
40°	1219.3	1219.3	1215.5	1218.3	1222.1	1221.1	1219.3	1223.9	1227.7	1232.3	1241.7
42.5°	1119.4	1117.5	1116.6	1116.6	1118.4	1116.6	1118.4	1119.4	1119.4	1119.4	1125.0
45°	1019.5	1024.1	1018.5	1016.7	1013.9	1011.1	1010.1	1011.1	1014.8	1010.1	1011.1
47.5°	921.4	923.3	919.6	916.8	914.0	912.1	914.0	908.4	910.2	911.2	907.4
50°	821.6	817.8	817.8	815.0	816.0	815.0	813.2	811.3	811.3	806.6	803.8
52.5°	729.1	731.0	732.9	726.3	727.3	722.6	723.5	718.9	718.9	713.3	715.1
55°	653.5	650.7	650.7	647.9	647.0	642.3	641.4	638.6	632.0	628.3	620.8
57.5°	575.1	574.2	570.4	571.4	565.8	564.8	563.0	558.3	553.6	548.9	540.5
60°	498.5	499.5	499.5	497.6	494.8	490.1	491.1	484.5	478.0	469.6	462.1
62.5°	435.0	432.2	431.3	429.4	423.8	423.8	419.2	414.5	408.0	399.6	393.0
65°	368.8	369.7	366.9	364.1	358.5	357.6	353.8	350.1	343.6	335.2	325.8
67.5°	309.0	307.1	306.2	303.4	297.8	296.9	294.1	285.7	280.1	271.7	264.2
70°	251.1	249.3	250.2	245.5	239.9	237.1	236.2	229.7	221.3	214.7	207.3
72.5°	197.0	197.0	196.1	191.4	188.6	186.7	183.0	175.5	170.8	163.4	157.8
75°	148.4	147.5	145.6	142.8	139.1	137.2	135.4	130.7	124.2	115.8	111.1
77.5°	102.7	103.6	101.8	100.8	96.2	93.4	92.4	89.6	84.0	78.4	73.8
80°	65.4	64.4	63.5	61.6	60.7	59.7	56.9	55.1	49.5	46.7	43.9
82.5°	35.5	33.6	33.6	32.7	30.8	29.9	28.9	27.1	26.1	24.3	22.4
85°	11.2	12.1	11.2	11.2	11.2	10.3	10.3	10.3	9.3	9.3	8.4
87.5°	0.9	1.9	0.9	0.9	1.9	0.9	0.9	1.9	0.9	0.9	1.9
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°	2542.1	2542.1	2542.1	2542.1	2542.1	2542.1	2542.1	2542.1	2542.1	2542.1	2542.1
2.5°	2534.7	2535.6	2535.6	2536.5	2536.5	2536.5	2536.5	2536.5	2536.5	2536.5	2536.5
5°	2514.1	2514.1	2516.0	2517.9	2517.9	2517.9	2518.8	2520.7	2520.7	2520.7	2519.7
7.5°	2480.5	2484.3	2488.0	2491.7	2492.7	2493.6	2495.5	2499.2	2499.2	2499.2	2499.2
10°	2436.7	2445.1	2449.7	2455.3	2458.1	2460.0	2465.6	2466.5	2469.3	2470.3	2469.3
12.5°	2380.6	2391.8	2402.1	2411.4	2415.2	2418.9	2424.5	2430.1	2432.9	2435.7	2434.8
15°	2318.1	2330.2	2346.1	2356.4	2363.8	2369.4	2377.8	2385.3	2390.0	2391.8	2391.8
17.5°	2242.5	2257.4	2274.2	2291.0	2295.7	2305.0	2314.4	2324.6	2330.2	2331.2	2330.2
20°	2158.4	2175.2	2189.3	2206.1	2216.3	2221.0	2234.1	2247.1	2252.7	2253.7	2252.7
22.5°	2058.6	2074.4	2093.1	2110.8	2119.2	2127.6	2141.6	2154.7	2162.2	2167.8	2162.2
25°	1947.5	1969.9	1987.6	2002.5	2014.7	2023.1	2040.8	2051.1	2063.2	2062.3	2063.2
27.5°	1838.2	1856.9	1876.5	1894.2	1901.7	1911.0	1925.0	1941.9	1952.1	1958.7	1957.7
30°	1726.2	1741.1	1757.9	1773.8	1785.9	1793.4	1814.0	1821.4	1834.5	1838.2	1835.4
32.5°	1607.6	1617.9	1634.7	1656.2	1660.8	1668.3	1681.4	1700.1	1704.7	1706.6	1707.5
35°	1481.6	1501.2	1515.2	1528.3	1532.0	1538.5	1553.5	1567.5	1572.2	1580.6	1576.8
37.5°	1364.9	1376.1	1382.6	1395.7	1406.9	1412.5	1420.0	1429.3	1438.7	1442.4	1441.5
40°	1248.2	1253.8	1259.4	1273.4	1274.3	1274.3	1285.5	1298.6	1298.6	1302.3	1302.3
42.5°	1128.7	1129.6	1137.1	1144.6	1146.4	1148.3	1159.5	1161.4	1167.0	1169.8	1173.5
45°	1012.9	1018.5	1023.2	1024.1	1028.8	1029.7	1032.5	1035.3	1043.7	1041.9	1043.7
47.5°	907.4	910.2	913.0	913.0	915.8	914.9	919.6	916.8	922.4	924.2	927.0
50°	803.8	808.5	805.7	807.5	806.6	809.4	807.5	807.5	807.5	811.3	814.1
52.5°	708.6	709.5	706.7	707.7	707.7	705.8	707.7	706.7	705.8	705.8	706.7
55°	620.8	617.1	615.2	611.5	606.8	612.4	609.6	607.8	611.5	609.6	611.5
57.5°	535.9	531.2	527.5	525.6	519.1	522.8	519.1	517.2	517.2	517.2	521.9
60°	455.6	450.9	446.3	440.7	439.7	437.9	436.0	431.3	432.2	431.3	433.2
62.5°	385.6	376.2	369.7	365.0	364.1	361.3	358.5	353.8	354.8	354.8	355.7
65°	321.2	310.9	301.5	295.0	295.0	290.3	285.7	285.7	280.1	281.9	282.9
67.5°	256.7	248.3	239.0	234.3	231.5	227.8	225.0	223.1	220.3	220.3	222.2
70°	198.9	190.5	185.8	178.3	177.4	174.6	170.8	168.0	167.1	167.1	166.2
72.5°	150.3	142.8	137.2	132.6	129.8	127.0	123.2	122.3	120.4	120.4	122.3
75°	104.6	99.9	95.2	90.6	88.7	87.8	85.0	83.1	83.1	82.2	83.1
77.5°	70.0	65.4	60.7	58.8	56.9	55.1	54.1	53.2	50.4	50.4	50.4
80°	40.1	38.3	36.4	33.6	33.6	32.7	30.8	29.9	28.9	28.9	28.9
82.5°	20.5	19.6	17.7	16.8	16.8	16.8	15.9	15.9	14.9	14.9	14.9
85°	8.4	7.5	6.5	6.5	6.5	6.5	6.5	6.5	7.5	6.5	7.5
87.5°	0.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2542.1	2542.1	2542.1	2542.1	2542.1	2542.1	2542.1	2542.1	2542.1	2542.1	2542.1
2.5°	2536.5	2535.6	2535.6	2535.6	2535.6	2535.6	2534.7	2534.7	2533.7	2533.7	2533.7
5°	2520.7	2519.7	2518.8	2517.9	2516.9	2516.0	2515.1	2514.1	2511.3	2510.4	2508.5
7.5°	2498.3	2496.4	2493.6	2492.7	2490.8	2488.0	2484.3	2482.4	2478.7	2474.0	2472.1
10°	2468.4	2464.7	2461.9	2457.2	2456.3	2452.5	2443.2	2438.5	2432.0	2426.4	2419.8
12.5°	2432.0	2428.3	2421.7	2415.2	2411.4	2403.0	2394.6	2387.2	2378.8	2366.6	2357.3
15°	2387.2	2381.6	2368.5	2366.6	2361.0	2348.0	2336.8	2322.8	2309.7	2296.6	2285.4
17.5°	2327.4	2315.3	2308.8	2300.3	2293.8	2277.0	2264.9	2249.0	2231.3	2216.3	2200.5
20°	2249.0	2235.9	2224.7	2220.1	2211.7	2196.7	2181.8	2162.2	2144.4	2125.8	2111.8
22.5°	2155.6	2147.2	2130.4	2124.8	2114.6	2099.6	2081.9	2063.2	2046.4	2025.9	2007.2
25°	2055.8	2043.6	2030.5	2019.3	2011.9	1997.9	1975.5	1961.5	1942.8	1920.4	1906.4
27.5°	1949.3	1935.3	1916.6	1909.2	1902.6	1884.0	1865.3	1847.6	1832.6	1813.0	1800.9
30°	1826.1	1815.8	1803.7	1794.3	1785.0	1770.1	1753.3	1732.7	1716.9	1707.5	1690.7
32.5°	1701.0	1692.6	1676.7	1672.0	1661.8	1649.6	1637.5	1622.6	1605.8	1591.8	1578.7
35°	1567.5	1559.1	1547.9	1539.5	1535.7	1527.3	1514.3	1501.2	1492.8	1476.9	1470.4
37.5°	1434.0	1431.2	1420.0	1411.6	1408.8	1398.5	1392.0	1382.6	1370.5	1366.8	1359.3
40°	1296.7	1294.9	1288.3	1287.4	1281.8	1279.0	1269.7	1262.2	1256.6	1253.8	1249.1
42.5°	1170.7	1168.8	1163.2	1164.2	1158.6	1156.7	1155.8	1149.2	1144.6	1139.0	1139.9
45°	1046.5	1044.7	1040.9	1039.1	1041.9	1040.9	1039.1	1036.3	1036.3	1037.2	1034.4
47.5°	927.0	928.9	925.2	927.0	927.0	924.2	924.2	928.0	928.9	930.8	932.6
50°	814.1	819.7	817.8	820.6	821.6	822.5	819.7	824.4	823.4	831.8	830.0
52.5°	711.4	712.3	716.1	717.0	717.9	718.9	723.5	727.3	728.2	731.9	738.5
55°	612.4	613.4	620.8	620.8	625.5	626.4	633.0	634.8	637.6	647.9	649.8
57.5°	519.1	524.7	528.4	530.3	533.1	537.7	541.5	549.9	554.5	561.1	567.6
60°	435.0	441.6	446.3	448.1	451.9	457.5	462.1	471.5	479.9	487.3	492.0
62.5°	357.6	363.2	366.9	373.4	373.4	378.1	389.3	394.9	404.2	410.8	419.2
65°	288.5	292.2	298.7	298.7	302.5	309.9	319.3	327.7	337.0	346.4	354.8
67.5°	225.9	228.7	232.5	236.2	238.1	247.4	254.9	267.0	275.4	281.9	292.2
70°	170.8	172.7	177.4	181.1	183.9	190.5	198.9	207.3	215.7	223.1	233.4
72.5°	122.3	126.0	130.7	133.5	135.4	140.0	148.4	156.8	164.3	171.8	177.4
75°	84.0	86.8	88.7	91.5	94.3	98.0	103.6	109.2	117.6	125.1	131.6
77.5°	52.3	55.1	57.9	58.8	59.7	63.5	67.2	72.8	78.4	84.0	88.7
80°	30.8	31.7	32.7	33.6	35.5	38.3	40.1	43.9	47.6	51.3	56.0
82.5°	15.9	16.8	17.7	17.7	17.7	18.7	21.5	23.3	24.3	26.1	28.9
85°	6.5	6.5	6.5	7.5	7.5	8.4	8.4	9.3	9.3	10.3	11.2
87.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
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: P879454

CATALOG NUMBER: LD4C55D010 EU4559040 4LBLDWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2542.1	2542.1	2542.1	2542.1	2542.1	2542.1	2542.1	2542.1
2.5°	2532.8	2532.8	2532.8	2531.9	2532.8	2532.8	2532.8	2531.9
5°	2508.5	2506.7	2506.7	2505.7	2504.8	2504.8	2505.7	2503.9
7.5°	2468.4	2465.6	2463.7	2463.7	2462.8	2461.9	2461.9	2457.2
10°	2416.1	2410.5	2410.5	2408.6	2401.2	2400.2	2398.4	2398.4
12.5°	2350.8	2344.2	2340.5	2335.8	2331.2	2327.4	2326.5	2322.8
15°	2273.3	2264.9	2258.3	2256.5	2249.0	2243.4	2243.4	2241.5
17.5°	2189.3	2176.2	2171.5	2166.8	2156.6	2155.6	2153.8	2145.4
20°	2094.0	2081.9	2075.4	2070.7	2064.2	2054.8	2052.9	2053.9
22.5°	1994.1	1977.3	1971.7	1967.1	1960.5	1952.1	1952.1	1945.6
25°	1890.5	1875.6	1870.0	1864.4	1854.1	1850.4	1845.7	1846.6
27.5°	1785.0	1771.0	1766.3	1756.1	1749.5	1744.9	1740.2	1740.2
30°	1674.8	1667.4	1659.9	1659.0	1645.9	1640.3	1635.6	1631.9
32.5°	1568.4	1559.1	1555.3	1551.6	1545.1	1537.6	1536.7	1530.1
35°	1463.9	1454.5	1449.9	1446.1	1438.7	1435.9	1433.1	1434.9
37.5°	1353.7	1351.8	1349.0	1344.4	1339.7	1338.8	1335.0	1339.7
40°	1245.4	1244.5	1240.7	1241.7	1241.7	1239.8	1241.7	1241.7
42.5°	1140.8	1140.8	1137.1	1139.0	1139.9	1141.8	1144.6	1146.4
45°	1039.1	1038.1	1039.1	1040.9	1039.1	1043.7	1047.5	1050.3
47.5°	934.5	935.5	939.2	940.1	942.0	948.5	948.5	948.5
50°	834.6	839.3	837.4	843.0	842.1	845.8	842.1	842.1
52.5°	739.4	744.1	745.0	745.9	751.5	752.5	752.5	751.5
55°	654.4	661.0	658.2	662.8	665.6	667.5	670.3	668.4
57.5°	576.0	578.8	581.6	582.6	586.3	588.2	590.0	588.2
60°	498.5	504.1	508.8	509.7	511.6	513.5	514.4	517.2
62.5°	425.7	435.0	436.9	437.9	442.5	445.3	447.2	449.1
65°	361.3	367.8	372.5	375.3	379.0	379.0	381.8	381.8
67.5°	298.7	305.3	308.1	309.9	315.6	316.5	321.2	321.2
70°	241.8	246.5	248.3	251.1	256.7	260.5	262.3	264.2
72.5°	186.7	192.3	195.1	198.9	202.6	205.4	206.3	209.1
75°	136.3	144.7	145.6	149.4	152.2	155.9	157.8	156.8
77.5°	95.2	98.0	101.8	103.6	106.4	109.2	112.0	112.0
80°	58.8	62.6	63.5	64.4	68.2	70.0	71.9	71.9
82.5°	30.8	32.7	34.5	35.5	37.3	37.3	38.3	39.2
85°	12.1	13.1	13.1	13.1	14.0	14.9	14.9	14.9
87.5°	1.9	2.8	1.9	1.9	2.8	2.8	2.8	2.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - 90°-270°













(END OF REPORT)