

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: P879450

Luminaire Tested: **LD4C55D010 EU4559030 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: P879450
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 EU4559030 4LBLDWWH
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBLDWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

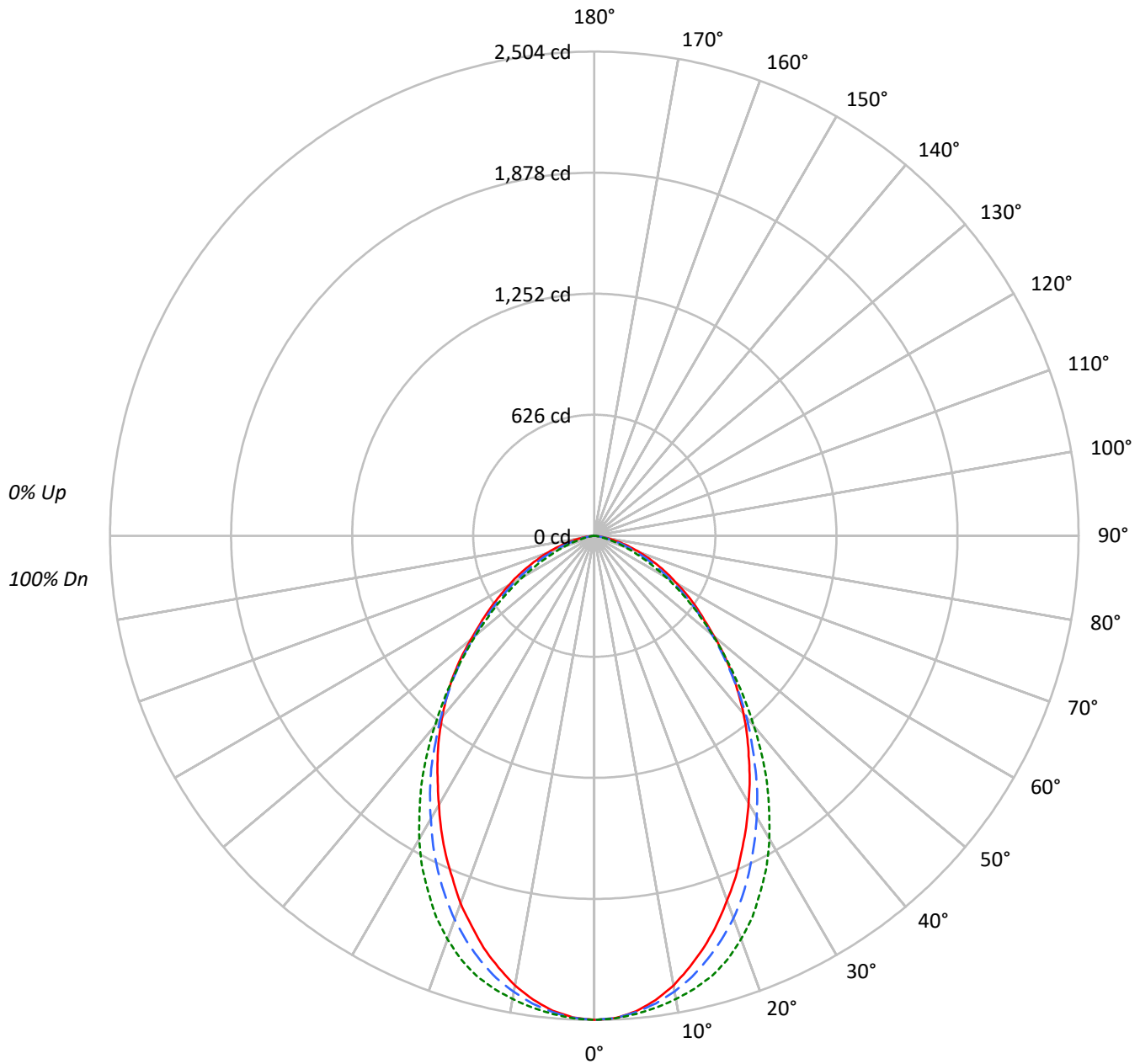
Lumens per Lamp: N/A
Luminaire Lumens: 4478.0 lumens
Efficiency: N/A
Efficacy: 70.1 lumens/watt
Spacing Criteria (0/90/45): 1 / 1.1 / 1.12
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	307576	307576	307576
5°	304435	306136	304102
10°	294544	303489	294656
15°	279837	299590	280766
20°	262286	290173	264444
25°	244282	275310	246518
30°	226293	256807	227982
35°	208767	233453	211932
40°	192577	205695	196105
45°	174436	178276	179700
50°	154640	152710	158501
55°	137852	128599	141000
60°	120642	104376	125163
65°	105581	80726	109302
70°	88830	59124	93464
75°	69397	38401	73336
80°	45562	20163	50090
85°	15505	9021	20721



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.7	5.2
10°-20°	638.6	14.3
20°-30°	878.3	19.6
30°-40°	916.2	20.5
40°-50°	783.9	17.5
50°-60°	560.7	12.5
60°-70°	325.3	7.3
70°-80°	125.4	2.8
80°-90°	16.0	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°	1750.5	39.1
0°-40°	2666.7	59.6
0°-60°	4011.3	89.6
0°-90°	4478.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4478.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2504	2504	2504	2504	2504	
5°	2469	2473	2482	2473	2466	232
15°	2200	2266	2356	2275	2208	617
25°	1802	1901	2031	1913	1819	829
35°	1392	1447	1557	1470	1413	872
45°	1004	996	1026	1021	1034	774
55°	644	611	600	628	658	576
65°	363	321	278	332	376	362
75°	146	109	81	116	154	157
85°	11	8	6	9	15	21
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°	2503.6	2503.6	2503.6	2503.6	2503.6	2503.6	2503.6	2503.6	2503.6	2503.6	2503.6
2.5°	2497.1	2495.3	2496.2	2496.2	2496.2	2495.3	2497.1	2497.1	2496.2	2496.2	2496.2
5°	2468.6	2466.8	2467.7	2468.6	2468.6	2468.6	2469.6	2470.5	2471.4	2472.3	2473.2
7.5°	2422.7	2419.9	2422.7	2426.3	2426.3	2427.3	2428.2	2429.1	2431.9	2436.5	2439.2
10°	2361.1	2361.1	2362.0	2364.7	2369.3	2368.4	2371.2	2375.8	2381.3	2387.7	2392.3
12.5°	2282.9	2284.7	2287.5	2290.3	2294.9	2297.6	2302.2	2307.7	2316.9	2326.1	2336.2
15°	2200.2	2201.1	2202.0	2208.4	2213.0	2219.5	2223.1	2234.2	2242.5	2255.3	2266.4
17.5°	2107.3	2106.4	2109.1	2114.7	2125.7	2128.4	2133.0	2145.0	2157.0	2174.4	2189.1
20°	2006.2	2011.7	2015.4	2022.7	2029.2	2036.5	2040.2	2054.9	2068.7	2085.2	2104.5
22.5°	1910.5	1905.9	1912.4	1920.7	1926.2	1931.7	1938.1	1953.8	1968.5	1988.7	2008.0
25°	1802.1	1804.8	1809.4	1815.8	1823.2	1830.6	1837.9	1854.5	1862.7	1883.9	1901.4
27.5°	1699.1	1703.7	1705.5	1713.8	1720.2	1725.7	1729.4	1748.7	1756.1	1774.5	1791.9
30°	1595.2	1599.8	1599.8	1609.0	1613.6	1619.1	1628.3	1641.2	1652.2	1665.1	1677.9
32.5°	1495.0	1495.0	1498.6	1506.9	1511.5	1518.0	1520.7	1529.9	1540.9	1553.8	1567.6
35°	1392.0	1394.8	1398.4	1398.4	1406.7	1410.4	1414.1	1423.3	1430.6	1436.1	1447.2
37.5°	1297.3	1297.3	1294.5	1299.1	1304.7	1303.7	1309.2	1313.8	1318.4	1324.9	1334.1
40°	1200.8	1200.8	1197.1	1199.8	1203.5	1202.6	1200.8	1205.4	1209.0	1213.6	1222.8
42.5°	1102.4	1100.5	1099.6	1099.6	1101.5	1099.6	1101.5	1102.4	1102.4	1102.4	1107.9
45°	1004.0	1008.6	1003.1	1001.2	998.5	995.7	994.8	995.7	999.4	994.8	995.7
47.5°	907.5	909.3	905.6	902.9	900.1	898.3	900.1	894.6	896.4	897.4	893.7
50°	809.1	805.4	805.4	802.7	803.6	802.7	800.8	799.0	799.0	794.4	791.6
52.5°	718.1	719.9	721.7	715.3	716.2	711.6	712.5	708.0	708.0	702.4	704.3
55°	643.6	640.8	640.8	638.1	637.2	632.6	631.6	628.9	622.4	618.8	611.4
57.5°	566.4	565.4	561.8	562.7	557.2	556.2	554.4	549.8	545.2	540.6	532.3
60°	491.0	491.9	491.9	490.0	487.3	482.7	483.6	477.2	470.7	462.5	455.1
62.5°	428.4	425.7	424.8	422.9	417.4	417.4	412.8	408.2	401.8	393.5	387.1
65°	363.2	364.1	361.3	358.6	353.1	352.1	348.5	344.8	338.3	330.1	320.9
67.5°	304.3	302.5	301.6	298.8	293.3	292.4	289.6	281.3	275.8	267.6	260.2
70°	247.3	245.5	246.4	241.8	236.3	233.5	232.6	226.2	217.9	211.5	204.1
72.5°	194.0	194.0	193.1	188.5	185.7	183.9	180.2	172.9	168.3	160.9	155.4
75°	146.2	145.3	143.4	140.7	137.0	135.2	133.3	128.7	122.3	114.0	109.4
77.5°	101.1	102.1	100.2	99.3	94.7	91.9	91.0	88.3	82.7	77.2	72.6
80°	64.4	63.4	62.5	60.7	59.8	58.8	56.1	54.2	48.7	46.0	43.2
82.5°	34.9	33.1	33.1	32.2	30.3	29.4	28.5	26.7	25.7	23.9	22.1
85°	11.0	12.0	11.0	11.0	11.0	10.1	10.1	10.1	9.2	9.2	8.3
87.5°	0.9	1.8	0.9	0.9	1.8	0.9	0.9	1.8	0.9	0.9	1.8
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°	2503.6	2503.6	2503.6	2503.6	2503.6	2503.6	2503.6	2503.6	2503.6	2503.6	2503.6
2.5°	2496.2	2497.1	2497.1	2498.1	2498.1	2498.1	2498.1	2498.1	2498.1	2498.1	2498.1
5°	2476.0	2476.0	2477.8	2479.7	2479.7	2479.7	2480.6	2482.4	2482.4	2482.4	2481.5
7.5°	2442.9	2446.6	2450.2	2453.9	2454.8	2455.8	2457.6	2461.3	2461.3	2461.3	2461.3
10°	2399.7	2408.0	2412.5	2418.1	2420.8	2422.7	2428.2	2429.1	2431.9	2432.8	2431.9
12.5°	2344.5	2355.5	2365.7	2374.9	2378.5	2382.2	2387.7	2393.2	2396.0	2398.8	2397.8
15°	2282.9	2294.9	2310.5	2320.6	2328.0	2333.5	2341.8	2349.1	2353.7	2355.5	2355.5
17.5°	2208.4	2223.1	2239.7	2256.2	2260.8	2270.0	2279.2	2289.3	2294.9	2295.8	2294.9
20°	2125.7	2142.2	2156.0	2172.6	2182.7	2187.3	2200.2	2213.0	2218.6	2219.5	2218.6
22.5°	2027.3	2042.9	2061.3	2078.8	2087.1	2095.3	2109.1	2122.0	2129.4	2134.9	2129.4
25°	1917.9	1940.0	1957.4	1972.1	1984.1	1992.4	2009.8	2020.0	2031.9	2031.0	2031.9
27.5°	1810.3	1828.7	1848.0	1865.5	1872.9	1882.0	1895.8	1912.4	1922.5	1928.9	1928.0
30°	1700.0	1714.7	1731.3	1746.9	1758.8	1766.2	1786.4	1793.8	1806.7	1810.3	1807.6
32.5°	1583.2	1593.3	1609.9	1631.0	1635.6	1643.0	1655.9	1674.3	1678.9	1680.7	1681.6
35°	1459.1	1478.4	1492.2	1505.1	1508.8	1515.2	1529.9	1543.7	1548.3	1556.6	1552.9
37.5°	1344.2	1355.2	1361.7	1374.5	1385.6	1391.1	1398.4	1407.6	1416.8	1420.5	1419.6
40°	1229.3	1234.8	1240.3	1254.1	1255.0	1255.0	1266.0	1278.9	1278.9	1282.6	1282.6
42.5°	1111.6	1112.5	1119.8	1127.2	1129.0	1130.9	1141.9	1143.8	1149.3	1152.0	1155.7
45°	997.6	1003.1	1007.7	1008.6	1013.2	1014.1	1016.9	1019.6	1027.9	1026.1	1027.9
47.5°	893.7	896.4	899.2	899.2	901.9	901.0	905.6	902.9	908.4	910.2	913.0
50°	791.6	796.2	793.5	795.3	794.4	797.1	795.3	795.3	795.3	799.0	801.7
52.5°	697.8	698.8	696.0	696.9	696.9	695.1	696.9	696.0	695.1	695.1	696.0
55°	611.4	607.7	605.9	602.2	597.6	603.1	600.4	598.5	602.2	600.4	602.2
57.5°	527.7	523.1	519.5	517.6	511.2	514.9	511.2	509.4	509.4	509.4	514.0
60°	448.7	444.1	439.5	434.0	433.0	431.2	429.4	424.8	425.7	424.8	426.6
62.5°	379.7	370.5	364.1	359.5	358.6	355.8	353.1	348.5	349.4	349.4	350.3
65°	316.3	306.2	297.0	290.5	290.5	285.9	281.3	281.3	275.8	277.7	278.6
67.5°	252.8	244.6	235.4	230.8	228.0	224.3	221.6	219.7	217.0	217.0	218.8
70°	195.8	187.6	183.0	175.6	174.7	171.9	168.3	165.5	164.6	164.6	163.7
72.5°	148.0	140.7	135.2	130.6	127.8	125.0	121.4	120.4	118.6	118.6	120.4
75°	103.0	98.4	93.8	89.2	87.3	86.4	83.7	81.8	81.8	80.9	81.8
77.5°	69.0	64.4	59.8	57.9	56.1	54.2	53.3	52.4	49.6	49.6	49.6
80°	39.5	37.7	35.9	33.1	33.1	32.2	30.3	29.4	28.5	28.5	28.5
82.5°	20.2	19.3	17.5	16.5	16.5	16.5	15.6	15.6	14.7	14.7	14.7
85°	8.3	7.4	6.4	6.4	6.4	6.4	6.4	6.4	7.4	6.4	7.4
87.5°	0.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
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°	2503.6	2503.6	2503.6	2503.6	2503.6	2503.6	2503.6	2503.6	2503.6	2503.6	2503.6
2.5°	2498.1	2497.1	2497.1	2497.1	2497.1	2497.1	2496.2	2496.2	2495.3	2495.3	2495.3
5°	2482.4	2481.5	2480.6	2479.7	2478.7	2477.8	2476.9	2476.0	2473.2	2472.3	2470.5
7.5°	2460.4	2458.5	2455.8	2454.8	2453.0	2450.2	2446.6	2444.7	2441.1	2436.5	2434.6
10°	2430.9	2427.3	2424.5	2419.9	2419.0	2415.3	2406.1	2401.5	2395.1	2389.6	2383.1
12.5°	2395.1	2391.4	2385.0	2378.5	2374.9	2366.6	2358.3	2350.9	2342.7	2330.7	2321.5
15°	2350.9	2345.4	2332.6	2330.7	2325.2	2312.3	2301.3	2287.5	2274.6	2261.8	2250.7
17.5°	2292.1	2280.2	2273.7	2265.4	2259.0	2242.5	2230.5	2214.9	2197.4	2182.7	2167.1
20°	2214.9	2202.0	2191.0	2186.4	2178.1	2163.4	2148.7	2129.4	2111.9	2093.5	2079.7
22.5°	2122.9	2114.7	2098.1	2092.6	2082.5	2067.8	2050.3	2031.9	2015.4	1995.1	1976.7
25°	2024.6	2012.6	1999.7	1988.7	1981.3	1967.6	1945.5	1931.7	1913.3	1891.2	1877.4
27.5°	1919.7	1905.9	1887.6	1880.2	1873.8	1855.4	1837.0	1819.5	1804.8	1785.5	1773.6
30°	1798.4	1788.3	1776.3	1767.1	1757.9	1743.2	1726.7	1706.4	1690.8	1681.6	1665.1
32.5°	1675.2	1666.9	1651.3	1646.7	1636.6	1624.6	1612.7	1597.9	1581.4	1567.6	1554.7
35°	1543.7	1535.4	1524.4	1516.1	1512.4	1504.2	1491.3	1478.4	1470.1	1454.5	1448.1
37.5°	1412.2	1409.5	1398.4	1390.2	1387.4	1377.3	1370.8	1361.7	1349.7	1346.0	1338.7
40°	1277.1	1275.2	1268.8	1267.9	1262.4	1259.6	1250.4	1243.1	1237.5	1234.8	1230.2
42.5°	1152.9	1151.1	1145.6	1146.5	1141.0	1139.2	1138.2	1131.8	1127.2	1121.7	1122.6
45°	1030.7	1028.8	1025.1	1023.3	1026.1	1025.1	1023.3	1020.6	1020.6	1021.5	1018.7
47.5°	913.0	914.8	911.1	913.0	913.0	910.2	910.2	913.9	914.8	916.7	918.5
50°	801.7	807.2	805.4	808.2	809.1	810.0	807.2	811.8	810.9	819.2	817.4
52.5°	700.6	701.5	705.2	706.1	707.0	708.0	712.5	716.2	717.1	720.8	727.3
55°	603.1	604.1	611.4	611.4	616.0	616.9	623.4	625.2	628.0	638.1	639.9
57.5°	511.2	516.7	520.4	522.2	525.0	529.6	533.3	541.5	546.1	552.6	559.0
60°	428.4	434.9	439.5	441.3	445.0	450.5	455.1	464.3	472.6	479.9	484.5
62.5°	352.1	357.7	361.3	367.8	367.8	372.4	383.4	388.9	398.1	404.5	412.8
65°	284.1	287.8	294.2	294.2	297.9	305.2	314.4	322.7	331.9	341.1	349.4
67.5°	222.5	225.3	228.9	232.6	234.5	243.6	251.0	263.0	271.2	277.7	287.8
70°	168.3	170.1	174.7	178.4	181.1	187.6	195.8	204.1	212.4	219.7	229.9
72.5°	120.4	124.1	128.7	131.5	133.3	137.9	146.2	154.5	161.8	169.2	174.7
75°	82.7	85.5	87.3	90.1	92.9	96.5	102.1	107.6	115.8	123.2	129.6
77.5°	51.5	54.2	57.0	57.9	58.8	62.5	66.2	71.7	77.2	82.7	87.3
80°	30.3	31.3	32.2	33.1	34.9	37.7	39.5	43.2	46.9	50.6	55.2
82.5°	15.6	16.5	17.5	17.5	17.5	18.4	21.1	23.0	23.9	25.7	28.5
85°	6.4	6.4	6.4	7.4	7.4	8.3	8.3	9.2	9.2	10.1	11.0
87.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
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: P879450

CATALOG NUMBER: LD4C55D010 EU4559030 4LBLDWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2503.6	2503.6	2503.6	2503.6	2503.6	2503.6	2503.6	2503.6
2.5°	2494.4	2494.4	2494.4	2493.5	2494.4	2494.4	2494.4	2493.5
5°	2470.5	2468.6	2468.6	2467.7	2466.8	2466.8	2467.7	2465.9
7.5°	2430.9	2428.2	2426.3	2426.3	2425.4	2424.5	2424.5	2419.9
10°	2379.4	2373.9	2373.9	2372.1	2364.7	2363.8	2362.0	2362.0
12.5°	2315.1	2308.7	2305.0	2300.4	2295.8	2292.1	2291.2	2287.5
15°	2238.8	2230.5	2224.1	2222.2	2214.9	2209.4	2209.4	2207.5
17.5°	2156.0	2143.2	2138.6	2134.0	2123.9	2122.9	2121.1	2112.8
20°	2062.3	2050.3	2043.9	2039.3	2032.8	2023.6	2021.8	2022.7
22.5°	1963.9	1947.3	1941.8	1937.2	1930.8	1922.5	1922.5	1916.1
25°	1861.8	1847.1	1841.6	1836.1	1826.0	1822.3	1817.7	1818.6
27.5°	1757.9	1744.1	1739.5	1729.4	1723.0	1718.4	1713.8	1713.8
30°	1649.4	1642.1	1634.7	1633.8	1620.9	1615.4	1610.8	1607.1
32.5°	1544.6	1535.4	1531.7	1528.1	1521.6	1514.3	1513.4	1506.9
35°	1441.6	1432.5	1427.9	1424.2	1416.8	1414.1	1411.3	1413.1
37.5°	1333.2	1331.3	1328.6	1324.0	1319.4	1318.4	1314.8	1319.4
40°	1226.5	1225.6	1221.9	1222.8	1222.8	1221.0	1222.8	1222.8
42.5°	1123.5	1123.5	1119.8	1121.7	1122.6	1124.4	1127.2	1129.0
45°	1023.3	1022.4	1023.3	1025.1	1023.3	1027.9	1031.6	1034.3
47.5°	920.3	921.3	924.9	925.9	927.7	934.1	934.1	934.1
50°	822.0	826.6	824.7	830.2	829.3	833.0	829.3	829.3
52.5°	728.2	732.8	733.7	734.6	740.1	741.0	741.0	740.1
55°	644.5	650.9	648.2	652.8	655.5	657.4	660.1	658.3
57.5°	567.3	570.0	572.8	573.7	577.4	579.2	581.1	579.2
60°	491.0	496.5	501.1	502.0	503.8	505.7	506.6	509.4
62.5°	419.3	428.4	430.3	431.2	435.8	438.6	440.4	442.2
65°	355.8	362.3	366.8	369.6	373.3	373.3	376.0	376.0
67.5°	294.2	300.6	303.4	305.2	310.8	311.7	316.3	316.3
70°	238.1	242.7	244.6	247.3	252.8	256.5	258.4	260.2
72.5°	183.9	189.4	192.2	195.8	199.5	202.3	203.2	205.9
75°	134.2	142.5	143.4	147.1	149.9	153.5	155.4	154.5
77.5°	93.8	96.5	100.2	102.1	104.8	107.6	110.3	110.3
80°	57.9	61.6	62.5	63.4	67.1	69.0	70.8	70.8
82.5°	30.3	32.2	34.0	34.9	36.8	36.8	37.7	38.6
85°	12.0	12.9	12.9	12.9	13.8	14.7	14.7	14.7
87.5°	1.8	2.8	1.8	1.8	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)