

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P252602

Luminaire Tested: **LE\_6B40D010 EC6B30509027 6LBDW1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252602  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-8)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LE\_6B40D010 EC6B30509027 6LBDW1LI  
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4275.0 lumens  
Efficiency: N/A  
Efficacy: 99.4 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.22 / 1.15  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

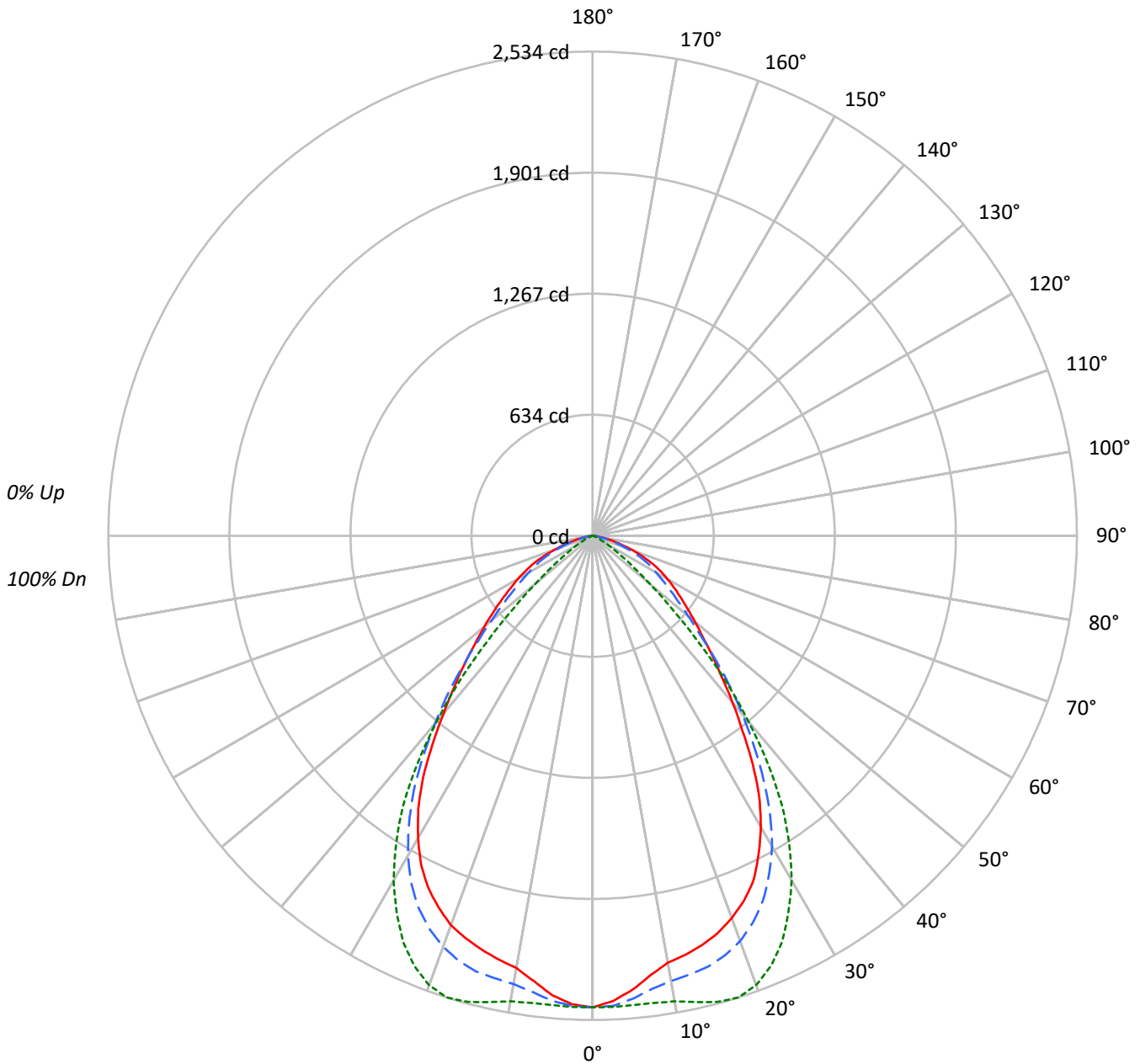
Input Watts (W): 43  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			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			100
1	111	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89			89
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79			79
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70			70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62			62
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56			56
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50			50
7	73	61	54	49	72	61	53	48	59	53	48	58	52	48	57	51	48	46			46
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42			42
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38			38
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35			35

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	161020	161020	161020
5°	156219	161459	158092
10°	150275	163889	152170
15°	149748	170557	151483
20°	147784	173736	150561
25°	143365	168841	146454
30°	132624	156919	137566
35°	116352	137944	123170
40°	96961	108143	103272
45°	81608	71339	87144
50°	70662	39096	75006
55°	63935	20770	65562
60°	58834	10804	58834
65°	53289	5727	51993
70°	42995	3262	39714
75°	29492	2143	27324
80°	19311	1090	17132
85°	12800	2171	10629



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	230.2	5.4
10°-20°	665.5	15.6
20°-30°	983.3	23.0
30°-40°	993.2	23.2
40°-50°	684.6	16.0
50°-60°	393.2	9.2
60°-70°	228.8	5.4
70°-80°	83.5	2.0
80°-90°	12.8	0.3
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°	1879.0	44.0
0°-40°	2872.2	67.2
0°-60°	3949.9	92.4
0°-90°	4275.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4275.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2468	2468	2468	2468	2468	
5°	2385	2431	2465	2442	2414	224
15°	2217	2334	2525	2360	2243	625
25°	1992	2109	2346	2152	2034	907
35°	1461	1561	1732	1632	1546	907
45°	884	896	773	953	944	688
55°	562	494	183	514	576	506
65°	345	291	37	288	337	338
75°	117	94	8	91	108	132
85°	17	8	3	11	14	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°	2468.1	2468.1	2468.1	2468.1	2468.1	2468.1	2468.1	2468.1	2468.1	2468.1	2468.1
2.5°	2436.8	2439.6	2442.5	2439.6	2442.5	2453.9	2445.4	2451.0	2451.0	2453.9	2462.5
5°	2385.4	2385.4	2391.1	2388.2	2396.9	2408.2	2399.8	2408.2	2411.1	2416.8	2431.1
7.5°	2319.8	2319.8	2322.6	2322.6	2334.0	2345.5	2339.8	2351.1	2362.6	2374.0	2391.1
10°	2268.4	2274.1	2274.1	2277.0	2288.4	2302.6	2299.9	2314.1	2325.5	2342.6	2365.5
12.5°	2245.6	2248.5	2248.5	2254.1	2265.6	2279.9	2277.0	2291.2	2308.4	2328.4	2351.1
15°	2217.1	2222.8	2219.9	2225.6	2237.0	2251.4	2248.5	2262.8	2282.8	2302.6	2334.0
17.5°	2180.0	2182.9	2185.6	2185.6	2197.1	2208.5	2208.5	2222.8	2245.6	2268.4	2302.6
20°	2128.6	2134.4	2134.4	2137.1	2145.8	2162.9	2160.0	2174.2	2197.1	2219.9	2257.0
22.5°	2068.8	2071.5	2071.5	2074.4	2088.6	2097.2	2100.1	2111.5	2131.5	2157.1	2191.4
25°	1991.6	1994.5	1991.6	2000.2	2005.9	2023.0	2017.4	2031.6	2054.4	2074.4	2108.6
27.5°	1880.4	1886.1	1886.1	1888.9	1903.2	1917.5	1917.5	1931.8	1951.8	1966.0	2000.2
30°	1760.5	1769.1	1760.5	1774.8	1780.5	1791.9	1800.5	1809.0	1826.1	1846.1	1877.5
32.5°	1623.6	1620.8	1623.6	1629.2	1646.4	1655.0	1660.6	1669.2	1686.4	1703.5	1729.1
35°	1460.9	1466.6	1469.5	1480.9	1480.9	1495.1	1498.0	1503.8	1529.4	1540.9	1560.8
37.5°	1289.8	1295.4	1298.2	1304.0	1315.4	1321.1	1329.6	1338.2	1355.4	1375.4	1386.8
40°	1138.5	1138.5	1141.4	1147.0	1155.6	1158.5	1167.0	1178.5	1189.9	1207.0	1218.4
42.5°	995.9	998.6	995.9	1001.5	1010.1	1021.5	1018.6	1032.9	1035.8	1047.2	1055.8
45°	884.5	884.5	878.9	884.5	884.5	896.0	893.1	898.9	896.0	901.6	896.0
47.5°	779.0	781.9	779.0	781.9	781.9	781.9	784.6	779.0	781.9	773.2	756.1
50°	696.2	699.1	693.4	696.2	693.4	690.5	693.4	684.8	682.0	670.5	653.4
52.5°	624.9	622.0	619.1	619.1	619.1	616.4	613.5	604.9	596.4	585.0	565.0
55°	562.1	559.2	556.4	556.4	550.8	547.9	547.9	539.2	530.8	516.5	493.6
57.5°	505.0	502.2	499.4	499.4	496.5	490.8	490.8	482.2	470.8	453.6	433.8
60°	450.9	450.9	450.9	448.0	448.0	442.2	442.2	433.8	422.2	405.1	382.4
62.5°	402.4	399.5	399.5	399.5	399.5	396.6	393.8	388.0	376.6	359.5	339.5
65°	345.2	345.2	345.2	345.2	342.4	342.4	342.4	333.9	328.1	311.0	291.0
67.5°	282.5	282.5	282.5	282.5	279.6	282.5	282.5	276.8	271.1	254.0	236.9
70°	225.4	222.6	219.8	222.6	219.8	219.8	222.6	216.9	214.0	199.8	182.6
72.5°	165.5	168.4	165.5	165.5	165.5	162.6	165.5	162.6	156.9	145.5	134.1
75°	117.0	119.9	119.9	117.0	117.0	117.0	114.1	114.1	108.4	99.9	94.1
77.5°	79.9	79.9	79.9	79.9	77.0	77.0	77.0	74.2	71.4	65.6	59.9
80°	51.4	51.4	51.4	51.4	48.5	48.5	48.5	45.6	45.6	40.0	34.2
82.5°	31.4	31.4	31.4	31.4	31.4	31.4	28.5	28.5	25.6	22.9	20.0
85°	17.1	17.1	17.1	17.1	17.1	17.1	17.1	14.2	14.2	11.4	8.5
87.5°	5.8	5.8	8.5	8.5	8.5	8.5	8.5	8.5	5.8	5.8	5.8
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°	2468.1	2468.1	2468.1	2468.1	2468.1	2468.1	2468.1	2468.1	2468.1	2468.1	2468.1
2.5°	2456.8	2459.6	2459.6	2459.6	2468.1	2471.0	2462.5	2453.9	2471.0	2468.1	2473.9
5°	2428.2	2436.8	2442.5	2445.4	2453.9	2459.6	2451.0	2448.2	2462.5	2465.4	2468.1
7.5°	2394.0	2408.2	2422.5	2428.2	2439.6	2445.4	2442.5	2442.5	2459.6	2465.4	2465.4
10°	2371.1	2391.1	2408.2	2422.5	2436.8	2445.4	2445.4	2448.2	2468.1	2473.9	2479.6
12.5°	2365.5	2391.1	2414.0	2433.9	2445.4	2459.6	2462.5	2471.0	2491.0	2499.5	2499.5
15°	2351.1	2385.4	2414.0	2439.6	2456.8	2473.9	2479.6	2496.8	2519.5	2525.2	2531.0
17.5°	2325.5	2359.8	2394.0	2425.4	2448.2	2462.5	2479.6	2496.8	2525.2	2533.8	2536.6
20°	2279.9	2319.8	2354.0	2385.4	2408.2	2428.2	2445.4	2465.4	2491.0	2502.4	2505.2
22.5°	2211.4	2251.4	2285.5	2319.8	2342.6	2359.8	2376.9	2399.8	2425.4	2436.8	2436.8
25°	2128.6	2165.8	2202.8	2228.5	2251.4	2271.2	2279.9	2305.5	2331.2	2345.5	2345.5
27.5°	2023.0	2057.2	2091.5	2120.0	2134.4	2151.5	2165.8	2188.5	2208.5	2219.9	2231.4
30°	1888.9	1923.1	1954.6	1983.1	2000.2	2017.4	2031.6	2048.8	2068.8	2083.0	2085.9
32.5°	1743.4	1772.0	1803.4	1831.9	1849.0	1854.8	1869.0	1886.1	1903.2	1914.6	1917.5
35°	1583.6	1603.6	1623.6	1649.2	1666.4	1666.4	1680.6	1692.0	1706.4	1732.0	1726.2
37.5°	1395.2	1423.9	1438.1	1446.6	1458.1	1469.5	1472.4	1486.6	1503.8	1509.4	1518.0
40°	1218.4	1227.0	1235.5	1235.5	1246.9	1246.9	1246.9	1249.8	1266.9	1269.8	1281.1
42.5°	1041.5	1041.5	1032.9	1024.4	1027.2	1024.4	1010.1	1010.1	1018.6	1030.1	1030.1
45°	876.0	856.0	830.4	810.4	796.1	790.4	773.2	773.2	770.4	773.2	784.6
47.5°	736.1	701.9	659.1	619.1	604.9	593.5	567.9	556.4	550.8	553.5	559.2
50°	619.1	582.1	533.6	485.1	459.4	445.1	413.8	393.8	390.9	385.2	396.6
52.5°	533.6	487.9	436.6	379.5	353.9	331.0	296.8	279.6	268.2	268.2	271.1
55°	459.4	410.9	353.9	296.8	271.1	254.0	219.8	196.9	185.5	182.6	191.1
57.5°	396.6	351.0	293.9	236.9	211.1	191.1	156.9	137.0	128.4	122.8	125.5
60°	348.1	302.5	245.4	191.1	168.4	145.5	117.0	94.1	82.8	82.8	85.6
62.5°	302.5	259.6	208.2	156.9	137.0	117.0	85.6	65.6	57.1	54.2	57.1
65°	256.8	216.9	174.0	131.2	111.2	94.1	68.5	51.4	40.0	37.1	40.0
67.5°	208.2	176.9	139.9	105.6	88.5	74.2	51.4	37.1	28.5	25.6	28.5
70°	162.6	134.1	105.6	77.0	65.6	54.2	37.1	28.5	20.0	17.1	20.0
72.5°	117.0	97.0	74.2	54.2	45.6	37.1	25.6	20.0	14.2	11.4	14.2
75°	79.9	65.6	48.5	34.2	28.5	25.6	17.1	11.4	8.5	8.5	8.5
77.5°	51.4	40.0	31.4	22.9	17.1	14.2	8.5	5.8	5.8	5.8	5.8
80°	28.5	22.9	17.1	11.4	8.5	8.5	5.8	5.8	2.9	2.9	2.9
82.5°	17.1	11.4	8.5	5.8	5.8	2.9	2.9	2.9	2.9	2.9	2.9
85°	8.5	5.8	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
87.5°	2.9	2.9	2.9	2.9	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	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°	2468.1	2468.1	2468.1	2468.1	2468.1	2468.1	2468.1	2468.1	2468.1	2468.1	2468.1
2.5°	2462.5	2465.4	2456.8	2468.1	2459.6	2471.0	2471.0	2459.6	2462.5	2456.8	2468.1
5°	2456.8	2456.8	2451.0	2459.6	2448.2	2459.6	2456.8	2436.8	2442.5	2431.1	2442.5
7.5°	2456.8	2451.0	2442.5	2451.0	2436.8	2445.4	2433.9	2414.0	2408.2	2394.0	2394.0
10°	2465.4	2456.8	2445.4	2448.2	2433.9	2436.8	2419.6	2391.1	2382.6	2365.5	2359.8
12.5°	2485.2	2476.8	2459.6	2465.4	2445.4	2445.4	2422.5	2388.2	2371.1	2348.4	2342.6
15°	2513.9	2499.5	2479.6	2482.4	2462.5	2451.0	2422.5	2382.6	2359.8	2328.4	2319.8
17.5°	2519.5	2505.2	2479.6	2479.6	2453.9	2439.6	2405.4	2359.8	2331.2	2299.9	2282.8
20°	2488.1	2473.9	2445.4	2442.5	2419.6	2399.8	2362.6	2317.0	2288.4	2254.1	2239.9
22.5°	2422.5	2405.4	2379.8	2376.9	2354.0	2342.6	2302.6	2257.0	2228.5	2194.2	2182.9
25°	2325.5	2317.0	2291.2	2288.4	2268.4	2254.1	2219.9	2177.1	2151.5	2117.2	2105.8
27.5°	2211.4	2202.8	2177.1	2177.1	2154.2	2145.8	2114.4	2074.4	2054.4	2023.0	2008.8
30°	2074.4	2063.0	2048.8	2045.9	2025.9	2017.4	1988.8	1951.8	1931.8	1906.0	1900.4
32.5°	1911.8	1903.2	1894.6	1891.8	1871.9	1863.2	1843.2	1806.1	1789.1	1766.2	1757.6
35°	1723.5	1717.8	1709.1	1706.4	1697.8	1689.2	1669.2	1640.8	1632.1	1615.0	1606.5
37.5°	1506.6	1512.2	1506.6	1506.6	1498.0	1500.9	1483.8	1466.6	1458.1	1446.6	1441.0
40°	1272.6	1284.0	1292.6	1292.6	1289.8	1301.1	1298.2	1284.0	1281.1	1275.5	1272.6
42.5°	1035.8	1041.5	1058.6	1070.0	1067.1	1095.8	1098.5	1110.0	1118.5	1112.9	1115.6
45°	787.5	804.6	827.5	838.9	853.1	890.2	910.2	933.0	953.0	964.5	961.6
47.5°	567.9	587.8	613.5	630.6	656.2	701.9	753.2	781.9	810.4	824.6	838.9
50°	410.9	430.9	462.2	487.9	505.0	567.9	622.0	659.1	690.5	710.5	724.8
52.5°	288.2	311.0	345.2	368.1	393.8	453.6	516.5	559.2	593.5	619.1	633.5
55°	199.8	225.4	256.8	279.6	308.1	371.0	430.9	476.5	513.6	536.4	553.5
57.5°	139.9	162.6	194.0	214.0	242.5	302.5	362.4	408.0	445.1	468.0	487.9
60°	94.1	117.0	148.4	168.4	191.1	251.1	305.2	353.9	388.0	410.9	430.9
62.5°	65.6	85.6	117.0	137.0	156.9	208.2	259.6	302.5	336.8	362.4	379.5
65°	51.4	68.5	94.1	111.2	131.2	174.0	216.9	254.0	288.2	313.9	325.2
67.5°	37.1	54.2	74.2	88.5	102.8	139.9	176.9	205.5	236.9	256.8	271.1
70°	25.6	37.1	54.2	65.6	77.0	105.6	134.1	159.8	182.6	196.9	208.2
72.5°	20.0	25.6	37.1	45.6	54.2	74.2	97.0	117.0	134.1	145.5	156.9
75°	11.4	17.1	25.6	31.4	37.1	51.4	65.6	79.9	91.2	99.9	105.6
77.5°	5.8	8.5	14.2	17.1	22.9	31.4	42.8	51.4	59.9	65.6	71.4
80°	5.8	5.8	8.5	8.5	11.4	17.1	22.9	28.5	34.2	40.0	42.8
82.5°	2.9	2.9	5.8	5.8	5.8	8.5	11.4	17.1	20.0	22.9	25.6
85°	2.9	2.9	2.9	2.9	2.9	5.8	5.8	8.5	11.4	14.2	14.2
87.5°	0.0	0.0	2.9	2.9	2.9	2.9	2.9	5.8	5.8	5.8	8.5
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: P252602

CATALOG NUMBER: LE\_6B40D010 EC6B30509027 6LBDW1LI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2468.1	2468.1	2468.1	2468.1	2468.1	2468.1	2468.1	2468.1
2.5°	2459.6	2465.4	2462.5	2468.1	2459.6	2456.8	2462.5	2453.9
5°	2428.2	2431.1	2428.2	2428.2	2422.5	2416.8	2422.5	2414.0
7.5°	2379.8	2379.8	2371.1	2371.1	2359.8	2354.0	2354.0	2351.1
10°	2339.8	2331.2	2322.6	2325.5	2308.4	2302.6	2299.9	2297.0
12.5°	2319.8	2314.1	2299.9	2299.9	2282.8	2277.0	2274.1	2271.2
15°	2297.0	2285.5	2274.1	2271.2	2257.0	2251.4	2248.5	2242.8
17.5°	2257.0	2248.5	2234.2	2234.2	2219.9	2217.1	2211.4	2208.5
20°	2214.2	2202.8	2191.4	2191.4	2174.2	2174.2	2165.8	2168.6
22.5°	2154.2	2145.8	2134.4	2134.4	2120.0	2117.2	2108.6	2105.8
25°	2083.0	2071.5	2063.0	2060.1	2048.8	2043.0	2040.1	2034.5
27.5°	1988.8	1980.2	1971.6	1966.0	1951.8	1948.9	1940.2	1943.1
30°	1871.9	1866.1	1863.2	1857.5	1840.4	1834.8	1834.8	1826.1
32.5°	1743.4	1734.9	1729.1	1720.6	1706.4	1703.5	1694.9	1697.8
35°	1586.5	1575.1	1566.5	1569.4	1552.2	1549.4	1543.6	1546.5
37.5°	1423.9	1412.4	1401.0	1398.1	1383.9	1383.9	1375.4	1375.4
40°	1255.5	1244.1	1238.4	1238.4	1221.2	1224.1	1215.5	1212.6
42.5°	1104.2	1092.9	1090.0	1087.1	1078.6	1075.8	1067.1	1070.0
45°	961.6	958.8	958.8	953.0	944.5	941.6	944.5	944.5
47.5°	836.0	838.9	836.0	836.0	830.4	836.0	830.4	833.1
50°	730.5	736.1	736.1	736.1	733.4	736.1	736.1	739.0
52.5°	642.0	650.6	647.8	650.6	647.8	653.4	650.6	653.4
55°	565.0	570.6	573.5	576.4	576.4	576.4	576.4	576.4
57.5°	493.6	502.2	505.0	507.9	507.9	513.6	507.9	507.9
60°	436.6	445.1	448.0	450.9	450.9	453.6	448.0	450.9
62.5°	385.2	393.8	393.8	396.6	396.6	396.6	390.9	393.8
65°	333.9	336.8	339.5	339.5	336.8	336.8	333.9	336.8
67.5°	276.8	279.6	276.8	276.8	273.9	273.9	268.2	271.1
70°	214.0	214.0	216.9	214.0	211.1	214.0	211.1	208.2
72.5°	159.8	159.8	159.8	156.9	156.9	154.1	156.9	156.9
75°	108.4	108.4	111.2	111.2	111.2	111.2	108.4	108.4
77.5°	71.4	71.4	71.4	71.4	74.2	71.4	71.4	71.4
80°	45.6	45.6	48.5	48.5	45.6	45.6	45.6	45.6
82.5°	28.5	28.5	28.5	28.5	28.5	28.5	28.5	28.5
85°	17.1	17.1	17.1	17.1	14.2	14.2	14.2	14.2
87.5°	8.5	8.5	8.5	8.5	8.5	8.5	5.8	5.8
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)