

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: P252606

Luminaire Tested: **LE_6B40D010 EC6B30509050 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252606
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 EC6B30509050 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4536.2 lumens
Efficiency: N/A
Efficacy: 105.5 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

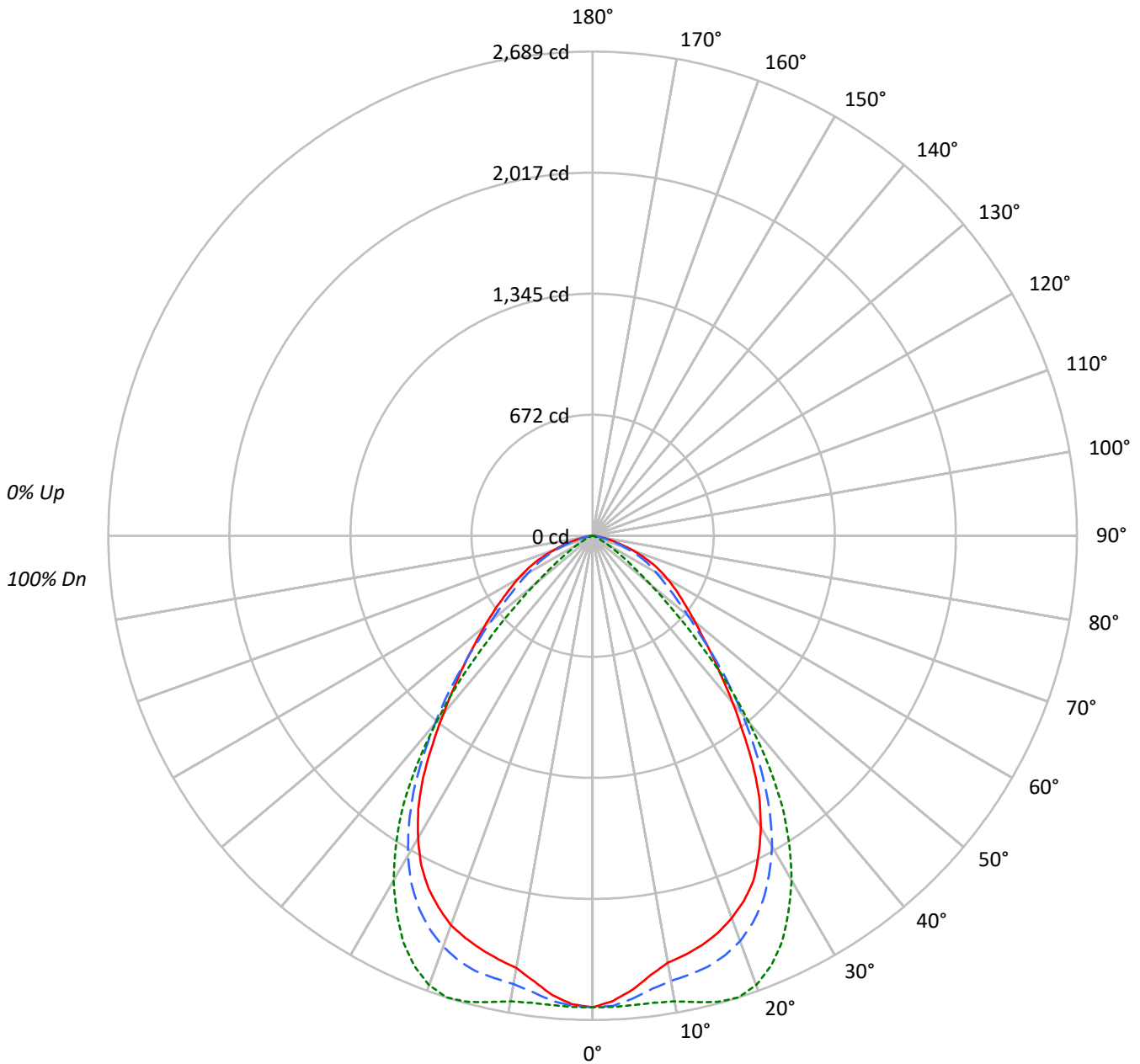
Input Watts (W): 43
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	111	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89																			
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79																			
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70																			
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62																			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56																			
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50																			
7	73	61	54	49	72	61	53	48	59	53	48	58	52	48	57	51	48	46																			
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42																			
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38																			
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	170865	170865	170865
5°	165768	171321	167752
10°	159457	173899	161471
15°	158893	180979	160737
20°	156823	184358	159760
25°	152133	179156	155401
30°	140730	166502	145981
35°	123464	146378	130696
40°	102889	114752	109591
45°	86599	75703	92458
50°	74986	41492	79583
55°	67848	22044	69566
60°	62422	11456	62422
65°	56562	6082	55142
70°	45628	3453	42156
75°	31282	2294	28988
80°	20476	1127	18222
85°	13549	2246	11303



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.2	5.4
10°-20°	706.2	15.6
20°-30°	1043.4	23.0
30°-40°	1053.9	23.2
40°-50°	726.4	16.0
50°-60°	417.2	9.2
60°-70°	242.8	5.4
70°-80°	88.6	2.0
80°-90°	13.5	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°	1993.8	44.0
0°-40°	3047.7	67.2
0°-60°	4191.3	92.4
0°-90°	4536.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4536.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2619	2619	2619	2619	2619	
5°	2531	2580	2616	2592	2562	237
15°	2352	2477	2680	2504	2380	663
25°	2113	2238	2489	2283	2159	963
35°	1550	1656	1838	1732	1641	962
45°	939	951	820	1011	1002	730
55°	596	524	194	545	612	537
65°	366	309	39	306	357	359
75°	124	100	9	97	115	140
85°	18	9	3	12	15	23
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°	2619.0	2619.0	2619.0	2619.0	2619.0	2619.0	2619.0	2619.0	2619.0	2619.0	2619.0
2.5°	2585.8	2588.8	2591.8	2588.8	2591.8	2603.9	2594.8	2600.9	2600.9	2603.9	2613.0
5°	2531.2	2531.2	2537.2	2534.2	2543.2	2555.4	2546.4	2555.4	2558.5	2564.5	2579.6
7.5°	2461.5	2461.5	2464.6	2464.6	2476.8	2488.8	2482.8	2494.9	2507.0	2519.1	2537.2
10°	2407.0	2413.1	2413.1	2416.1	2428.2	2443.4	2440.4	2455.5	2467.6	2485.8	2510.0
12.5°	2382.9	2385.9	2385.9	2391.9	2404.0	2419.1	2416.1	2431.2	2449.5	2470.6	2494.9
15°	2352.5	2358.6	2355.6	2361.6	2373.8	2388.9	2385.9	2401.0	2422.2	2443.4	2476.8
17.5°	2313.2	2316.2	2319.2	2319.2	2331.4	2343.5	2343.5	2358.6	2382.9	2407.0	2443.4
20°	2258.8	2264.8	2264.8	2267.8	2276.9	2295.0	2292.0	2307.1	2331.4	2355.6	2395.0
22.5°	2195.1	2198.1	2198.1	2201.1	2216.2	2225.4	2228.4	2240.5	2261.8	2289.0	2325.2
25°	2113.4	2116.4	2113.4	2122.5	2128.5	2146.6	2140.6	2155.8	2180.0	2201.1	2237.5
27.5°	1995.2	2001.4	2001.4	2004.4	2019.5	2034.6	2034.6	2049.8	2071.0	2086.1	2122.5
30°	1868.1	1877.2	1868.1	1883.2	1889.4	1901.4	1910.5	1919.6	1937.8	1959.0	1992.2
32.5°	1722.8	1719.8	1722.8	1728.9	1747.0	1756.1	1762.1	1771.2	1789.4	1807.6	1834.9
35°	1550.2	1556.2	1559.2	1571.4	1571.4	1586.5	1589.6	1595.6	1622.9	1635.0	1656.1
37.5°	1368.5	1374.6	1377.6	1383.6	1395.8	1401.9	1410.9	1420.0	1438.1	1459.4	1471.5
40°	1208.1	1208.1	1211.1	1217.1	1226.2	1229.2	1238.4	1250.5	1262.6	1280.8	1292.9
42.5°	1056.6	1059.8	1056.6	1062.8	1071.9	1083.9	1080.9	1096.0	1099.1	1111.1	1120.2
45°	938.6	938.6	932.5	938.6	938.6	950.8	947.6	953.8	950.8	956.8	950.8
47.5°	826.6	829.6	826.6	829.6	829.6	829.6	832.6	826.6	829.6	820.5	802.4
50°	738.8	741.8	735.8	738.8	735.8	732.8	735.8	726.6	723.6	711.5	693.4
52.5°	663.1	660.0	657.0	657.0	657.0	654.0	651.0	641.9	632.8	620.8	599.5
55°	596.5	593.5	590.4	590.4	584.4	581.4	581.4	572.2	563.1	548.0	523.8
57.5°	535.9	532.9	529.9	529.9	526.9	520.8	520.8	511.8	499.6	481.4	460.2
60°	478.4	478.4	478.4	475.4	475.4	469.2	469.2	460.2	448.1	430.0	405.8
62.5°	426.9	423.9	423.9	423.9	423.9	420.9	417.9	411.8	399.6	381.5	360.2
65°	366.4	366.4	366.4	366.4	363.4	363.4	363.4	354.2	348.2	330.0	308.9
67.5°	299.8	299.8	299.8	299.8	296.8	299.8	299.8	293.8	287.6	269.5	251.2
70°	239.2	236.1	233.1	236.1	233.1	233.1	236.1	230.1	227.1	212.0	193.8
72.5°	175.6	178.6	175.6	175.6	175.6	172.6	175.6	172.6	166.5	154.4	142.2
75°	124.1	127.1	127.1	124.1	124.1	124.1	121.1	121.1	115.0	106.0	99.9
77.5°	84.8	84.8	84.8	84.8	81.8	81.8	81.8	78.8	75.8	69.6	63.6
80°	54.5	54.5	54.5	54.5	51.5	51.5	51.5	48.5	48.5	42.4	36.4
82.5°	33.2	33.2	33.2	33.2	33.2	33.2	30.2	30.2	27.2	24.2	21.2
85°	18.1	18.1	18.1	18.1	18.1	18.1	18.1	15.1	15.1	12.1	9.1
87.5°	6.0	6.0	9.1	9.1	9.1	9.1	9.1	9.1	6.0	6.0	6.0
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°	2619.0	2619.0	2619.0	2619.0	2619.0	2619.0	2619.0	2619.0	2619.0	2619.0	2619.0
2.5°	2606.9	2609.9	2609.9	2609.9	2619.0	2622.0	2613.0	2603.9	2622.0	2619.0	2625.0
5°	2576.6	2585.8	2591.8	2594.8	2603.9	2609.9	2600.9	2597.8	2613.0	2616.0	2619.0
7.5°	2540.2	2555.4	2570.5	2576.6	2588.8	2594.8	2591.8	2591.8	2609.9	2616.0	2616.0
10°	2516.0	2537.2	2555.4	2570.5	2585.8	2594.8	2594.8	2597.8	2619.0	2625.0	2631.1
12.5°	2510.0	2537.2	2561.5	2582.6	2594.8	2609.9	2613.0	2622.0	2643.2	2652.2	2652.2
15°	2494.9	2531.2	2561.5	2588.8	2606.9	2625.0	2631.1	2649.2	2673.5	2679.5	2685.6
17.5°	2467.6	2504.0	2540.2	2573.6	2597.8	2613.0	2631.1	2649.2	2679.5	2688.6	2691.6
20°	2419.1	2461.5	2497.9	2531.2	2555.4	2576.6	2594.8	2616.0	2643.2	2655.4	2658.4
22.5°	2346.5	2388.9	2425.2	2461.5	2485.8	2504.0	2522.1	2546.4	2573.6	2585.8	2585.8
25°	2258.8	2298.0	2337.4	2364.6	2388.9	2410.1	2419.1	2446.4	2473.6	2488.8	2488.8
27.5°	2146.6	2183.0	2219.4	2249.6	2264.8	2282.9	2298.0	2322.2	2343.5	2355.6	2367.8
30°	2004.4	2040.8	2074.0	2104.2	2122.5	2140.6	2155.8	2173.9	2195.1	2210.2	2213.2
32.5°	1850.0	1880.2	1913.5	1943.9	1962.0	1968.0	1983.1	2001.4	2019.5	2031.6	2034.6
35°	1680.4	1701.6	1722.8	1750.0	1768.2	1768.2	1783.4	1795.5	1810.6	1837.9	1831.8
37.5°	1480.6	1510.9	1526.0	1535.1	1547.1	1559.2	1562.4	1577.5	1595.6	1601.6	1610.8
40°	1292.9	1301.9	1311.0	1311.0	1323.1	1323.1	1323.1	1326.1	1344.4	1347.4	1359.5
42.5°	1105.1	1105.1	1096.0	1087.0	1090.0	1087.0	1071.9	1071.9	1080.9	1093.0	1093.0
45°	929.5	908.4	881.1	859.9	844.8	838.6	820.5	820.5	817.5	820.5	832.6
47.5°	781.1	744.9	699.4	657.0	641.9	629.8	602.5	590.4	584.4	587.4	593.5
50°	657.0	617.6	566.2	514.8	487.5	472.4	439.0	417.9	414.8	408.8	420.9
52.5°	566.2	517.8	463.2	402.8	375.5	351.2	314.9	296.8	284.6	284.6	287.6
55°	487.5	436.0	375.5	314.9	287.6	269.5	233.1	208.9	196.8	193.8	202.9
57.5°	420.9	372.4	311.9	251.2	224.0	202.9	166.5	145.4	136.2	130.2	133.2
60°	369.4	321.0	260.4	202.9	178.6	154.4	124.1	99.9	87.8	87.8	90.9
62.5°	321.0	275.5	221.0	166.5	145.4	124.1	90.9	69.6	60.5	57.5	60.5
65°	272.5	230.1	184.8	139.2	118.1	99.9	72.6	54.5	42.4	39.4	42.4
67.5°	221.0	187.8	148.4	112.0	93.9	78.8	54.5	39.4	30.2	27.2	30.2
70°	172.6	142.2	112.0	81.8	69.6	57.5	39.4	30.2	21.2	18.1	21.2
72.5°	124.1	103.0	78.8	57.5	48.5	39.4	27.2	21.2	15.1	12.1	15.1
75°	84.8	69.6	51.5	36.4	30.2	27.2	18.1	12.1	9.1	9.1	9.1
77.5°	54.5	42.4	33.2	24.2	18.1	15.1	9.1	6.0	6.0	6.0	6.0
80°	30.2	24.2	18.1	12.1	9.1	9.1	6.0	6.0	3.0	3.0	3.0
82.5°	18.1	12.1	9.1	6.0	6.0	3.0	3.0	3.0	3.0	3.0	3.0
85°	9.1	6.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
87.5°	3.0	3.0	3.0	3.0	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	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°	2619.0	2619.0	2619.0	2619.0	2619.0	2619.0	2619.0	2619.0	2619.0	2619.0	2619.0
2.5°	2613.0	2616.0	2606.9	2619.0	2609.9	2622.0	2622.0	2609.9	2613.0	2606.9	2619.0
5°	2606.9	2606.9	2600.9	2609.9	2597.8	2609.9	2606.9	2585.8	2591.8	2579.6	2591.8
7.5°	2606.9	2600.9	2591.8	2600.9	2585.8	2594.8	2582.6	2561.5	2555.4	2540.2	2540.2
10°	2616.0	2606.9	2594.8	2597.8	2582.6	2585.8	2567.5	2537.2	2528.1	2510.0	2504.0
12.5°	2637.1	2628.1	2609.9	2616.0	2594.8	2594.8	2570.5	2534.2	2516.0	2491.9	2485.8
15°	2667.5	2652.2	2631.1	2634.1	2613.0	2600.9	2570.5	2528.1	2504.0	2470.6	2461.5
17.5°	2673.5	2658.4	2631.1	2631.1	2603.9	2588.8	2552.4	2504.0	2473.6	2440.4	2422.2
20°	2640.2	2625.0	2594.8	2591.8	2567.5	2546.4	2507.0	2458.5	2428.2	2391.9	2376.8
22.5°	2570.5	2552.4	2525.1	2522.1	2497.9	2485.8	2443.4	2395.0	2364.6	2328.4	2316.2
25°	2467.6	2458.5	2431.2	2428.2	2407.0	2391.9	2355.6	2310.1	2282.9	2246.6	2234.5
27.5°	2346.5	2337.4	2310.1	2310.1	2286.0	2276.9	2243.5	2201.1	2180.0	2146.6	2131.5
30°	2201.1	2189.1	2173.9	2170.9	2149.8	2140.6	2110.4	2071.0	2049.8	2022.5	2016.5
32.5°	2028.6	2019.5	2010.4	2007.4	1986.2	1977.1	1955.9	1916.6	1898.4	1874.1	1865.1
35°	1828.8	1822.8	1813.6	1810.6	1801.5	1792.4	1771.2	1741.0	1731.9	1713.8	1704.6
37.5°	1598.6	1604.8	1598.6	1598.6	1589.6	1592.6	1574.4	1556.2	1547.1	1535.1	1529.0
40°	1350.4	1362.5	1371.6	1371.6	1368.5	1380.6	1377.6	1362.5	1359.5	1353.4	1350.4
42.5°	1099.1	1105.1	1123.2	1135.4	1132.4	1162.6	1165.6	1177.8	1186.9	1180.9	1183.9
45°	835.6	853.9	878.0	890.1	905.2	944.6	965.9	990.1	1011.2	1023.4	1020.4
47.5°	602.5	623.8	651.0	669.1	696.4	744.9	799.4	829.6	859.9	875.0	890.1
50°	436.0	457.2	490.5	517.8	535.9	602.5	660.0	699.4	732.8	753.9	769.0
52.5°	305.8	330.0	366.4	390.6	417.9	481.4	548.0	593.5	629.8	657.0	672.1
55°	212.0	239.2	272.5	296.8	327.0	393.6	457.2	505.6	545.0	569.2	587.4
57.5°	148.4	172.6	205.9	227.1	257.4	321.0	384.5	433.0	472.4	496.5	517.8
60°	99.9	124.1	157.5	178.6	202.9	266.5	324.0	375.5	411.8	436.0	457.2
62.5°	69.6	90.9	124.1	145.4	166.5	221.0	275.5	321.0	357.2	384.5	402.8
65°	54.5	72.6	99.9	118.1	139.2	184.8	230.1	269.5	305.8	333.0	345.1
67.5°	39.4	57.5	78.8	93.9	109.0	148.4	187.8	218.0	251.2	272.5	287.6
70°	27.2	39.4	57.5	69.6	81.8	112.0	142.2	169.5	193.8	208.9	221.0
72.5°	21.2	27.2	39.4	48.5	57.5	78.8	103.0	124.1	142.2	154.4	166.5
75°	12.1	18.1	27.2	33.2	39.4	54.5	69.6	84.8	96.9	106.0	112.0
77.5°	6.0	9.1	15.1	18.1	24.2	33.2	45.4	54.5	63.6	69.6	75.8
80°	6.0	6.0	9.1	9.1	12.1	18.1	24.2	30.2	36.4	42.4	45.4
82.5°	3.0	3.0	6.0	6.0	6.0	9.1	12.1	18.1	21.2	24.2	27.2
85°	3.0	3.0	3.0	3.0	3.0	6.0	6.0	9.1	12.1	15.1	15.1
87.5°	0.0	0.0	3.0	3.0	3.0	3.0	3.0	6.0	6.0	6.0	9.1
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: P252606

CATALOG NUMBER: LE_6B40D010 EC6B30509050 6LBDW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2619.0	2619.0	2619.0	2619.0	2619.0	2619.0	2619.0	2619.0
2.5°	2609.9	2616.0	2613.0	2619.0	2609.9	2606.9	2613.0	2603.9
5°	2576.6	2579.6	2576.6	2576.6	2570.5	2564.5	2570.5	2561.5
7.5°	2525.1	2525.1	2516.0	2516.0	2504.0	2497.9	2497.9	2494.9
10°	2482.8	2473.6	2464.6	2467.6	2449.5	2443.4	2440.4	2437.4
12.5°	2461.5	2455.5	2440.4	2440.4	2422.2	2416.1	2413.1	2410.1
15°	2437.4	2425.2	2413.1	2410.1	2395.0	2388.9	2385.9	2379.8
17.5°	2395.0	2385.9	2370.8	2370.8	2355.6	2352.5	2346.5	2343.5
20°	2349.5	2337.4	2325.2	2325.2	2307.1	2307.1	2298.0	2301.1
22.5°	2286.0	2276.9	2264.8	2264.8	2249.6	2246.6	2237.5	2234.5
25°	2210.2	2198.1	2189.1	2186.0	2173.9	2167.9	2164.9	2158.8
27.5°	2110.4	2101.2	2092.1	2086.1	2071.0	2068.0	2058.9	2061.9
30°	1986.2	1980.1	1977.1	1971.1	1952.9	1946.9	1946.9	1937.8
32.5°	1850.0	1840.9	1834.9	1825.8	1810.6	1807.6	1798.5	1801.5
35°	1683.4	1671.4	1662.2	1665.2	1647.1	1644.1	1638.0	1641.0
37.5°	1510.9	1498.8	1486.6	1483.6	1468.5	1468.5	1459.4	1459.4
40°	1332.2	1320.1	1314.0	1314.0	1295.9	1298.9	1289.9	1286.8
42.5°	1171.8	1159.6	1156.6	1153.6	1144.5	1141.5	1132.4	1135.4
45°	1020.4	1017.4	1017.4	1011.2	1002.1	999.1	1002.1	1002.1
47.5°	887.1	890.1	887.1	887.1	881.1	887.1	881.1	884.1
50°	775.1	781.1	781.1	781.1	778.1	781.1	781.1	784.1
52.5°	681.2	690.4	687.2	690.4	687.2	693.4	690.4	693.4
55°	599.5	605.5	608.6	611.6	611.6	611.6	611.6	611.6
57.5°	523.8	532.9	535.9	539.0	539.0	545.0	539.0	539.0
60°	463.2	472.4	475.4	478.4	478.4	481.4	475.4	478.4
62.5°	408.8	417.9	417.9	420.9	420.9	420.9	414.8	417.9
65°	354.2	357.2	360.2	360.2	357.2	357.2	354.2	357.2
67.5°	293.8	296.8	293.8	293.8	290.6	290.6	284.6	287.6
70°	227.1	227.1	230.1	227.1	224.0	227.1	224.0	221.0
72.5°	169.5	169.5	169.5	166.5	166.5	163.5	166.5	166.5
75°	115.0	115.0	118.1	118.1	118.1	118.1	115.0	115.0
77.5°	75.8	75.8	75.8	75.8	78.8	75.8	75.8	75.8
80°	48.5	48.5	51.5	51.5	48.5	48.5	48.5	48.5
82.5°	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2
85°	18.1	18.1	18.1	18.1	15.1	15.1	15.1	15.1
87.5°	9.1	9.1	9.1	9.1	9.1	9.1	6.0	6.0
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)