

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: P252687

Luminaire Tested: **LE_6B30D010 EC6B30508027 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252687
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-9)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B30D010 EC6B30508027 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3298.8 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.21
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

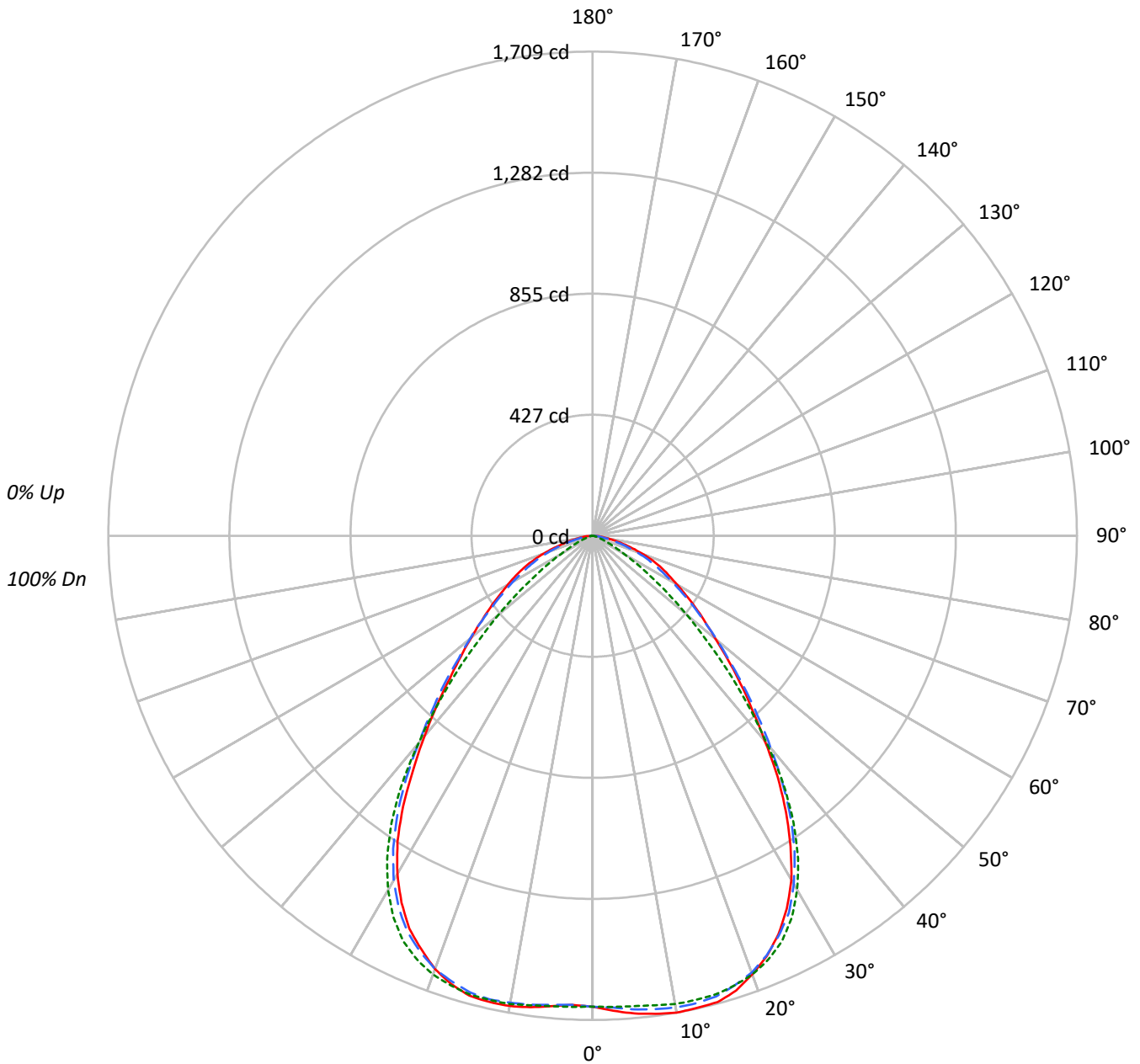
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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								
1	111	107	104	101	109	105	102	99	101	98	96	97	95	93	94	92	91	89								
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78								
3	95	87	80	75	93	85	79	74	82	77	73	80	75	71	77	74	70	68								
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61								
5	82	71	64	58	80	70	63	58	68	62	57	66	61	56	65	60	56	54								
6	77	65	57	52	75	64	57	51	63	56	51	61	55	51	59	54	50	48								
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	45	44								
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	45	41	40								
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36								
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	108430	108430	108430
5°	110842	109145	109145
10°	113216	111189	111659
15°	115105	113207	113525
20°	114410	114410	112945
25°	111685	113722	110166
30°	105723	108736	103772
35°	94737	98480	92865
40°	80481	81486	78480
45°	68100	62241	65711
50°	57498	43897	56787
55°	50525	28334	50002
60°	44781	16858	45081
65°	41372	10173	41372
70°	35861	5818	34984
75°	28459	3554	26669
80°	21190	2630	20326
85°	19388	1797	17591



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.0	4.9
10°-20°	473.6	14.4
20°-30°	712.2	21.6
30°-40°	748.8	22.7
40°-50°	559.4	17.0
50°-60°	348.3	10.6
60°-70°	198.1	6.0
70°-80°	81.6	2.5
80°-90°	16.9	0.5
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°	1345.8	40.8
0°-40°	2094.6	63.5
0°-60°	3002.3	91.0
0°-90°	3298.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3298.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1662	1662	1662	1662	1662	
5°	1692	1678	1667	1662	1667	162
15°	1704	1683	1676	1669	1681	479
25°	1552	1556	1580	1544	1530	710
35°	1190	1220	1236	1201	1166	738
45°	738	755	675	740	712	572
55°	444	435	249	428	440	400
65°	268	240	66	240	268	264
75°	113	89	14	87	106	123
85°	26	16	2	14	24	29
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°	1662.0	1662.0	1662.0	1662.0	1662.0	1662.0	1662.0	1662.0	1662.0	1662.0	1662.0
2.5°	1678.4	1676.1	1678.4	1673.8	1671.4	1671.4	1673.8	1669.0	1666.6	1669.0	1666.6
5°	1692.5	1687.9	1690.2	1687.9	1683.1	1683.1	1685.5	1678.4	1678.4	1680.8	1678.4
7.5°	1702.0	1702.0	1702.0	1697.2	1694.9	1692.5	1697.2	1690.2	1687.9	1687.9	1685.5
10°	1709.0	1706.6	1709.0	1704.2	1699.6	1697.2	1702.0	1697.2	1692.5	1697.2	1690.2
12.5°	1706.6	1706.6	1706.6	1704.2	1699.6	1697.2	1702.0	1694.9	1692.5	1694.9	1690.2
15°	1704.2	1697.2	1699.6	1697.2	1690.2	1690.2	1692.5	1685.5	1680.8	1687.9	1683.1
17.5°	1683.1	1678.4	1680.8	1676.1	1671.4	1669.0	1671.4	1669.0	1664.4	1669.0	1664.4
20°	1647.9	1647.9	1650.2	1645.5	1640.9	1638.5	1643.1	1638.5	1633.8	1640.9	1640.9
22.5°	1605.6	1605.6	1605.6	1603.2	1600.9	1600.9	1600.9	1598.5	1596.1	1600.9	1603.2
25°	1551.5	1549.1	1551.5	1553.9	1551.5	1549.1	1551.5	1551.5	1546.8	1556.2	1556.2
27.5°	1483.4	1483.4	1488.0	1485.6	1485.6	1483.4	1488.0	1488.0	1485.6	1492.8	1499.8
30°	1403.4	1398.8	1403.4	1403.4	1405.8	1405.8	1408.1	1408.1	1408.1	1415.1	1419.9
32.5°	1300.0	1302.4	1309.4	1307.0	1304.6	1311.8	1311.8	1316.4	1318.8	1323.5	1325.9
35°	1189.5	1191.9	1191.9	1194.1	1198.9	1194.1	1205.9	1203.6	1205.9	1215.4	1220.0
37.5°	1072.0	1064.9	1076.6	1072.0	1074.2	1074.2	1079.0	1081.4	1088.4	1100.1	1100.1
40°	945.0	947.4	952.0	954.4	956.8	956.8	956.8	963.8	966.1	980.2	977.9
42.5°	834.5	834.5	839.2	841.6	841.6	841.6	841.6	848.6	853.4	858.0	862.8
45°	738.1	731.1	735.8	735.8	740.5	738.1	742.9	747.5	749.9	757.0	754.6
47.5°	646.5	644.1	646.5	648.8	646.5	648.8	651.1	653.5	655.9	655.9	655.9
50°	566.5	566.5	568.9	571.2	571.2	571.2	571.2	573.6	573.6	578.2	573.6
52.5°	500.8	503.0	503.0	500.8	503.0	503.0	505.4	505.4	503.0	503.0	496.0
55°	444.2	442.0	444.2	442.0	444.2	444.2	442.0	442.0	439.6	437.2	434.9
57.5°	390.2	390.2	390.2	390.2	387.9	390.2	387.9	385.5	385.5	380.9	373.8
60°	343.2	343.2	343.2	343.2	343.2	340.9	343.2	340.9	336.1	331.5	322.0
62.5°	303.2	300.9	303.2	300.9	300.9	298.5	298.5	296.2	291.5	286.8	277.4
65°	268.0	270.4	268.0	268.0	265.6	263.2	263.2	260.9	253.9	249.1	239.8
67.5°	230.4	228.0	228.0	228.0	225.6	225.6	225.6	221.0	216.2	209.2	199.9
70°	188.0	188.0	188.0	185.8	185.8	183.4	183.4	181.0	176.2	171.6	159.9
72.5°	148.1	148.1	148.1	143.4	145.8	143.4	143.4	138.8	136.4	129.2	122.2
75°	112.9	112.9	110.5	110.5	108.1	105.8	105.8	103.4	101.1	96.4	89.4
77.5°	82.2	82.2	82.2	79.9	77.6	75.2	75.2	72.9	70.5	68.1	63.5
80°	56.4	56.4	56.4	56.4	54.1	51.8	51.8	49.4	49.4	47.0	42.4
82.5°	37.6	37.6	37.6	37.6	35.2	35.2	35.2	32.9	30.5	30.5	25.9
85°	25.9	25.9	23.5	23.5	23.5	23.5	21.1	21.1	18.8	16.5	16.5
87.5°	14.1	14.1	14.1	14.1	11.8	11.8	11.8	11.8	9.4	9.4	7.0
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°	1662.0	1662.0	1662.0	1662.0	1662.0	1662.0	1662.0	1662.0	1662.0	1662.0	1662.0
2.5°	1673.8	1673.8	1671.4	1664.4	1666.6	1664.4	1666.6	1664.4	1657.2	1664.4	1657.2
5°	1683.1	1685.5	1680.8	1671.4	1673.8	1671.4	1671.4	1669.0	1662.0	1666.6	1662.0
7.5°	1692.5	1690.2	1687.9	1678.4	1680.8	1678.4	1678.4	1673.8	1666.6	1671.4	1664.4
10°	1697.2	1697.2	1692.5	1683.1	1683.1	1680.8	1683.1	1680.8	1671.4	1678.4	1673.8
12.5°	1697.2	1694.9	1694.9	1683.1	1685.5	1683.1	1685.5	1680.8	1673.8	1678.4	1676.1
15°	1690.2	1690.2	1687.9	1676.1	1678.4	1678.4	1680.8	1676.1	1669.0	1676.1	1671.4
17.5°	1676.1	1676.1	1673.8	1664.4	1669.0	1669.0	1671.4	1666.6	1659.6	1664.4	1664.4
20°	1647.9	1650.2	1650.2	1643.1	1647.9	1647.9	1650.2	1647.9	1645.5	1647.9	1643.1
22.5°	1615.0	1619.6	1619.6	1612.6	1617.4	1617.4	1624.4	1622.0	1617.4	1619.6	1617.4
25°	1565.6	1570.2	1575.0	1570.2	1575.0	1575.0	1582.0	1579.8	1575.0	1579.8	1572.6
27.5°	1509.1	1511.5	1516.2	1511.5	1518.6	1516.2	1523.2	1520.9	1513.9	1520.9	1518.6
30°	1429.2	1438.6	1445.8	1438.6	1445.8	1445.8	1450.4	1448.0	1445.8	1443.4	1443.4
32.5°	1339.9	1349.4	1349.4	1347.0	1351.6	1351.6	1354.0	1349.4	1347.0	1349.4	1351.6
35°	1229.5	1234.1	1238.9	1236.5	1238.9	1241.2	1238.9	1241.2	1234.1	1236.5	1236.5
37.5°	1109.5	1114.2	1114.2	1107.2	1111.9	1111.9	1107.2	1107.2	1102.5	1107.2	1097.8
40°	982.6	977.9	980.2	975.5	970.9	970.9	968.5	959.1	954.4	956.8	959.1
42.5°	858.0	858.0	851.0	839.2	827.5	827.5	820.4	815.8	806.2	811.0	808.6
45°	752.2	740.5	731.1	712.2	705.2	700.5	688.8	677.0	672.4	674.6	672.4
47.5°	651.1	641.8	618.2	592.4	585.4	578.2	564.1	550.1	545.4	540.6	540.6
50°	566.5	550.1	524.2	496.0	484.2	472.5	453.8	439.6	430.1	432.5	432.5
52.5°	489.0	470.1	439.6	404.4	390.2	376.1	359.6	343.2	336.1	333.8	333.8
55°	420.8	399.6	369.1	329.1	317.4	300.9	279.8	260.9	251.5	249.1	253.9
57.5°	359.6	340.9	305.6	265.6	251.5	235.1	213.9	197.5	185.8	183.4	185.8
60°	310.2	284.5	253.9	216.2	197.5	183.4	159.9	145.8	134.0	129.2	131.6
62.5°	260.9	237.4	206.9	169.2	155.1	141.0	119.9	103.4	94.0	91.6	94.0
65°	223.4	199.9	171.6	138.8	124.6	110.5	91.6	75.2	68.1	65.9	68.1
67.5°	185.8	164.5	141.0	110.5	98.8	87.0	68.1	56.4	47.0	44.6	47.0
70°	150.5	131.6	108.1	87.0	75.2	65.9	51.8	40.0	32.9	30.5	32.9
72.5°	112.9	98.8	82.2	63.5	56.4	49.4	37.6	28.2	23.5	21.1	23.5
75°	82.2	70.5	58.8	44.6	40.0	35.2	25.9	18.8	16.5	14.1	16.5
77.5°	56.4	49.4	40.0	30.5	25.9	23.5	16.5	14.1	11.8	9.4	9.4
80°	37.6	32.9	25.9	21.1	18.8	16.5	11.8	9.4	7.0	7.0	7.0
82.5°	23.5	18.8	16.5	11.8	9.4	9.4	7.0	4.8	4.8	4.8	4.8
85°	14.1	11.8	9.4	7.0	4.8	4.8	2.4	2.4	2.4	2.4	2.4
87.5°	7.0	4.8	4.8	2.4	2.4	2.4	2.4	2.4	0.0	0.0	2.4
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°	1662.0	1662.0	1662.0	1662.0	1662.0	1662.0	1662.0	1662.0	1662.0	1662.0	1662.0
2.5°	1662.0	1657.2	1657.2	1659.6	1662.0	1664.4	1659.6	1657.2	1657.2	1664.4	1659.6
5°	1662.0	1659.6	1659.6	1659.6	1664.4	1666.6	1662.0	1659.6	1662.0	1669.0	1666.6
7.5°	1669.0	1664.4	1666.6	1666.6	1669.0	1673.8	1669.0	1666.6	1669.0	1676.1	1671.4
10°	1673.8	1669.0	1671.4	1669.0	1676.1	1678.4	1673.8	1671.4	1673.8	1683.1	1680.8
12.5°	1676.1	1673.8	1673.8	1671.4	1678.4	1680.8	1676.1	1673.8	1676.1	1683.1	1680.8
15°	1671.4	1669.0	1669.0	1669.0	1673.8	1678.4	1671.4	1669.0	1669.0	1676.1	1673.8
17.5°	1662.0	1657.2	1657.2	1657.2	1659.6	1662.0	1654.9	1652.6	1650.2	1657.2	1654.9
20°	1645.5	1640.9	1636.1	1636.1	1638.5	1638.5	1633.8	1626.8	1626.8	1629.1	1624.4
22.5°	1615.0	1612.6	1607.9	1605.6	1610.2	1607.9	1598.5	1591.5	1589.1	1591.5	1586.8
25°	1572.6	1568.0	1565.6	1563.2	1565.6	1563.2	1553.9	1544.5	1544.5	1544.5	1537.4
27.5°	1513.9	1509.1	1506.9	1506.9	1509.1	1504.5	1495.1	1485.6	1481.0	1481.0	1473.9
30°	1438.6	1438.6	1436.2	1434.0	1431.6	1431.6	1417.5	1408.1	1403.4	1405.8	1401.0
32.5°	1347.0	1344.6	1342.2	1335.2	1337.6	1335.2	1323.5	1316.4	1309.4	1304.6	1302.4
35°	1229.5	1229.5	1227.1	1227.1	1227.1	1224.8	1213.0	1205.9	1201.2	1198.9	1191.9
37.5°	1100.1	1097.8	1095.5	1095.5	1095.5	1095.5	1088.4	1081.4	1081.4	1079.0	1074.2
40°	954.4	956.8	959.1	956.8	963.8	970.9	961.5	956.8	954.4	961.5	952.0
42.5°	813.4	811.0	822.8	825.1	825.1	836.9	839.2	841.6	839.2	843.9	843.9
45°	677.0	674.6	686.4	691.1	702.9	717.0	724.0	735.8	740.5	745.2	740.5
47.5°	547.8	557.1	566.5	578.2	587.8	611.2	625.2	637.0	641.8	648.8	648.8
50°	439.6	449.0	465.5	474.9	486.6	514.9	538.4	554.8	564.1	571.2	568.9
52.5°	338.5	355.0	376.1	385.5	402.0	434.9	460.8	479.5	491.2	498.4	500.8
55°	260.9	275.0	296.2	310.2	326.8	362.0	394.9	416.1	427.9	437.2	442.0
57.5°	192.8	209.2	232.8	244.5	263.2	303.2	331.5	357.4	371.4	383.1	385.5
60°	141.0	157.5	178.6	192.8	211.6	251.5	284.5	308.0	324.4	333.8	338.5
62.5°	101.1	117.5	138.8	152.8	169.2	204.5	237.4	260.9	277.4	289.1	296.2
65°	72.9	89.4	110.5	122.2	136.4	169.2	199.9	223.4	239.8	253.9	258.6
67.5°	54.1	65.9	84.6	96.4	110.5	136.4	162.2	183.4	199.9	211.6	216.2
70°	40.0	49.4	65.9	72.9	82.2	105.8	127.0	145.8	159.9	169.2	174.0
72.5°	28.2	35.2	47.0	54.1	61.1	79.9	96.4	110.5	119.9	129.2	134.0
75°	18.8	23.5	32.9	37.6	42.4	56.4	68.1	79.9	87.0	94.0	96.4
77.5°	11.8	16.5	23.5	25.9	30.5	37.6	47.0	54.1	58.8	63.5	68.1
80°	7.0	9.4	14.1	16.5	18.8	25.9	30.5	35.2	40.0	44.6	47.0
82.5°	4.8	7.0	9.4	9.4	11.8	14.1	18.8	23.5	25.9	28.2	30.5
85°	2.4	2.4	4.8	4.8	7.0	7.0	9.4	11.8	14.1	16.5	18.8
87.5°	2.4	2.4	2.4	2.4	4.8	4.8	7.0	7.0	7.0	9.4	9.4
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: P252687

CATALOG NUMBER: LE_6B30D010 EC6B30508027 6LBDW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1662.0	1662.0	1662.0	1662.0	1662.0	1662.0	1662.0	1662.0
2.5°	1654.9	1662.0	1654.9	1659.6	1657.2	1657.2	1654.9	1657.2
5°	1662.0	1671.4	1662.0	1669.0	1664.4	1664.4	1664.4	1666.6
7.5°	1669.0	1678.4	1671.4	1678.4	1676.1	1673.8	1673.8	1678.4
10°	1676.1	1683.1	1678.4	1685.5	1683.1	1680.8	1680.8	1685.5
12.5°	1676.1	1685.5	1680.8	1687.9	1685.5	1683.1	1683.1	1685.5
15°	1669.0	1680.8	1673.8	1680.8	1678.4	1676.1	1676.1	1680.8
17.5°	1647.9	1657.2	1652.6	1657.2	1657.2	1654.9	1657.2	1659.6
20°	1619.6	1626.8	1622.0	1626.8	1626.8	1622.0	1624.4	1626.8
22.5°	1579.8	1586.8	1582.0	1586.8	1584.4	1582.0	1582.0	1579.8
25°	1530.4	1539.8	1532.8	1537.4	1532.8	1528.0	1528.0	1530.4
27.5°	1469.2	1476.2	1466.9	1471.6	1466.9	1462.1	1462.1	1459.9
30°	1389.2	1391.6	1384.6	1389.2	1384.6	1382.2	1377.5	1377.5
32.5°	1292.9	1295.2	1288.2	1288.2	1283.5	1283.5	1274.1	1281.1
35°	1180.1	1182.4	1180.1	1177.8	1170.6	1168.4	1166.0	1166.0
37.5°	1062.5	1062.5	1055.5	1053.1	1048.4	1043.8	1046.1	1039.0
40°	942.6	940.2	933.2	935.6	933.2	926.2	923.9	921.5
42.5°	829.9	829.9	822.8	825.1	820.4	818.0	811.0	813.4
45°	731.1	731.1	724.0	724.0	721.6	714.6	717.0	712.2
47.5°	641.8	641.8	639.4	639.4	632.4	630.0	630.0	630.0
50°	564.1	564.1	564.1	564.1	561.9	559.5	557.1	559.5
52.5°	498.4	503.0	500.8	500.8	498.4	496.0	493.6	493.6
55°	439.6	442.0	442.0	444.2	442.0	439.6	442.0	439.6
57.5°	387.9	392.6	392.6	392.6	392.6	392.6	390.2	387.9
60°	343.2	345.5	345.5	347.9	347.9	347.9	345.5	345.5
62.5°	298.5	303.2	305.6	305.6	308.0	305.6	305.6	305.6
65°	263.2	268.0	270.4	268.0	270.4	270.4	268.0	268.0
67.5°	221.0	225.6	225.6	225.6	225.6	228.0	225.6	225.6
70°	178.6	183.4	181.0	183.4	183.4	183.4	183.4	183.4
72.5°	136.4	138.8	141.0	141.0	143.4	141.0	141.0	141.0
75°	98.8	103.4	103.4	103.4	103.4	105.8	105.8	105.8
77.5°	70.5	72.9	72.9	75.2	75.2	75.2	75.2	77.6
80°	49.4	49.4	51.8	51.8	54.1	54.1	54.1	54.1
82.5°	32.9	35.2	35.2	35.2	35.2	35.2	35.2	35.2
85°	18.8	21.1	21.1	21.1	21.1	23.5	23.5	23.5
87.5°	11.8	11.8	11.8	11.8	11.8	11.8	9.4	9.4
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)