

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: P252277

Luminaire Tested: **LE_6B30D010 EC6B30509027 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252277
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-7)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B30D010 EC6B30509027 6LBSW1H
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2803.7 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

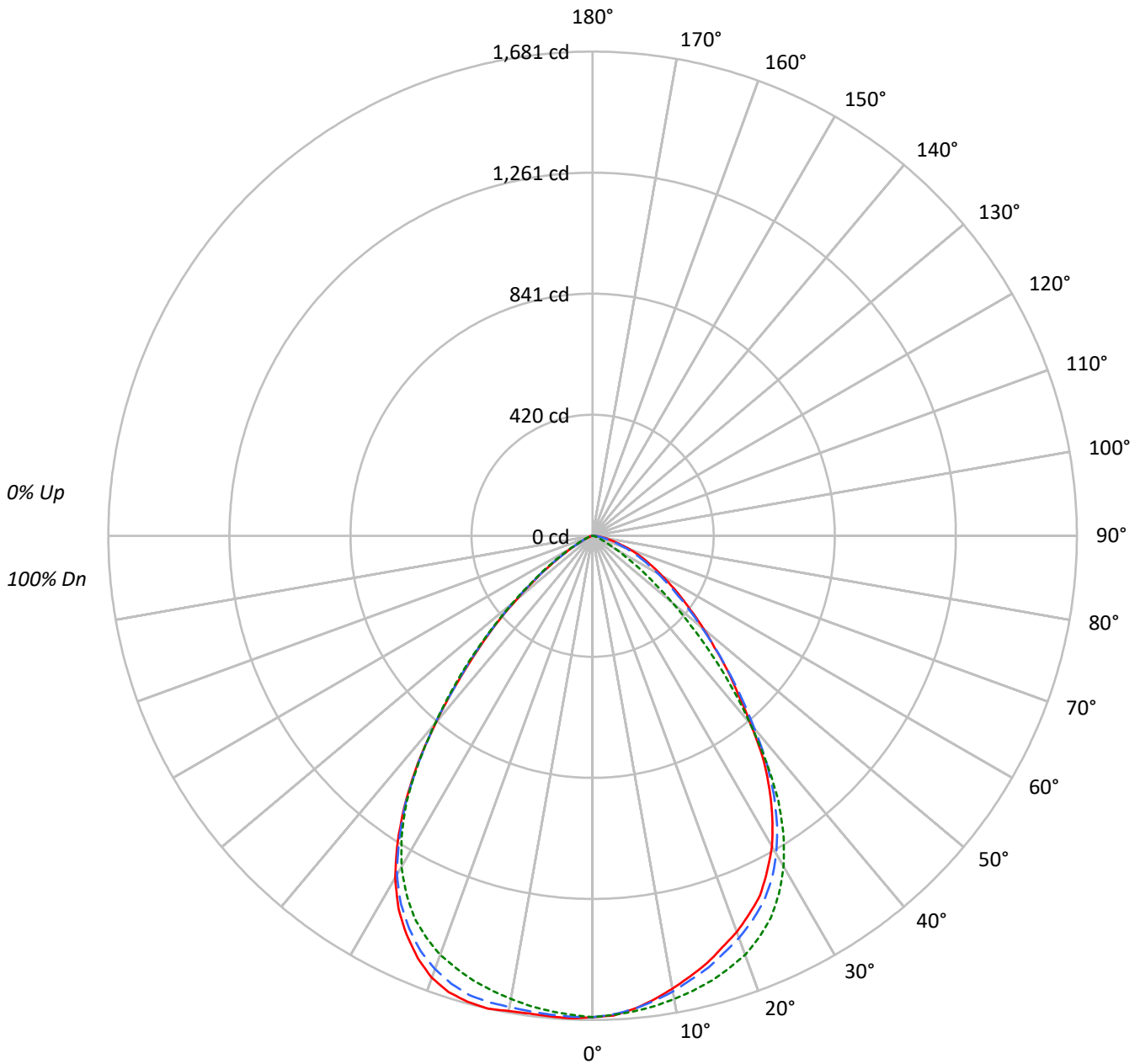
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80																			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72																			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64																			
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58																			
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52																			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47																			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43																			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40																			
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	109030	109030	109030
5°	107993	108523	109709
10°	105763	108175	110977
15°	103745	107966	113146
20°	101600	107481	113368
25°	99087	105343	109986
30°	93820	99900	103244
35°	85203	89536	90348
40°	72714	72374	72033
45°	61079	54196	52508
50°	51012	36660	34823
55°	42927	22498	20428
60°	36339	11861	10282
65°	31477	6237	4971
70°	26171	3834	2690
75°	19359	2546	1512
80°	15179	1503	751
85°	12052	1497	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.5	5.6
10°-20°	451.0	16.1
20°-30°	665.9	23.8
30°-40°	686.3	24.5
40°-50°	474.0	16.9
50°-60°	233.6	8.3
60°-70°	94.7	3.4
70°-80°	33.7	1.2
80°-90°	7.0	0.2
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°	1274.4	45.5
0°-40°	1960.7	69.9
0°-60°	2668.4	95.2
0°-90°	2803.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2803.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1671	1671	1671	1671	1671	
5°	1649	1649	1657	1669	1675	156
15°	1536	1552	1598	1651	1675	432
25°	1376	1403	1463	1506	1528	629
35°	1070	1096	1124	1130	1134	663
45°	662	666	587	579	569	512
55°	377	363	198	186	180	341
65°	204	184	40	32	32	202
75°	77	65	10	6	6	86
85°	16	12	2	0	0	20
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°	1671.2	1671.2	1671.2	1671.2	1671.2	1671.2	1671.2	1671.2	1671.2	1671.2	1671.2
2.5°	1667.1	1661.1	1665.1	1657.1	1667.1	1657.1	1659.1	1661.1	1659.1	1661.1	1663.1
5°	1649.0	1643.0	1649.0	1638.9	1649.0	1643.0	1643.0	1645.0	1645.0	1647.0	1649.0
7.5°	1624.8	1618.8	1624.8	1614.8	1626.8	1620.8	1620.8	1624.8	1622.8	1624.8	1628.9
10°	1596.5	1588.5	1594.5	1588.5	1600.6	1592.5	1596.5	1596.5	1596.5	1602.6	1606.6
12.5°	1566.2	1558.1	1566.2	1556.1	1568.2	1562.2	1564.2	1570.2	1572.2	1576.4	1578.4
15°	1536.0	1525.9	1529.9	1523.9	1536.0	1529.9	1532.0	1540.0	1540.0	1546.1	1552.1
17.5°	1497.6	1489.5	1497.6	1489.5	1499.6	1495.6	1499.6	1505.8	1505.8	1511.8	1517.8
20°	1463.4	1455.2	1461.2	1455.2	1467.4	1461.2	1463.4	1471.4	1473.4	1479.5	1485.5
22.5°	1420.9	1414.9	1418.9	1412.9	1425.0	1420.9	1423.0	1431.0	1433.0	1437.1	1447.1
25°	1376.5	1364.4	1370.5	1366.4	1378.5	1372.5	1376.5	1384.6	1388.6	1394.8	1402.8
27.5°	1312.0	1305.9	1309.9	1309.9	1320.0	1314.0	1316.0	1324.0	1330.1	1336.1	1346.2
30°	1245.4	1235.2	1239.2	1241.2	1249.4	1245.4	1249.4	1257.5	1259.5	1267.5	1275.6
32.5°	1160.5	1156.5	1164.6	1160.5	1164.6	1164.6	1166.6	1172.6	1176.8	1180.8	1190.9
35°	1069.8	1061.6	1069.8	1065.8	1075.8	1069.8	1075.8	1081.9	1081.9	1089.9	1096.0
37.5°	970.9	960.8	964.8	964.8	968.9	966.8	966.8	976.9	978.9	985.0	991.0
40°	853.8	849.8	857.8	855.8	857.8	857.8	859.9	865.9	869.9	871.9	874.0
42.5°	748.9	750.9	752.9	752.9	752.9	752.9	752.9	760.9	758.9	765.0	767.0
45°	662.0	654.0	658.0	656.0	662.0	656.0	662.0	668.1	664.0	670.1	666.0
47.5°	573.2	573.2	573.2	571.2	575.2	573.2	577.2	579.2	579.2	579.2	577.2
50°	502.6	496.5	498.5	498.5	500.5	498.5	502.6	504.6	504.6	500.5	492.5
52.5°	434.0	431.9	431.9	436.0	436.0	434.0	434.0	434.0	434.0	427.9	423.9
55°	377.4	373.4	375.4	375.4	375.4	375.4	377.4	375.4	375.4	369.4	363.2
57.5°	327.0	323.0	323.0	323.0	325.0	323.0	323.0	323.0	320.9	314.9	306.8
60°	278.5	276.5	278.5	278.5	280.5	278.5	278.5	278.5	274.5	268.5	260.4
62.5°	238.1	238.1	238.1	240.1	240.1	238.1	238.1	236.1	234.1	226.0	218.0
65°	203.9	201.9	203.9	203.9	205.9	205.9	203.9	201.9	199.9	191.8	183.6
67.5°	169.5	167.5	169.5	169.5	171.5	169.5	169.5	169.5	163.5	159.5	151.4
70°	137.2	135.2	135.2	135.2	137.2	133.2	135.2	135.2	131.2	125.1	117.1
72.5°	105.0	105.0	105.0	105.0	105.0	105.0	102.9	102.9	98.9	92.9	88.8
75°	76.8	76.8	78.8	78.8	76.8	76.8	76.8	74.6	72.6	68.6	64.6
77.5°	56.5	56.5	56.5	56.5	54.5	54.5	54.5	52.5	50.5	48.5	44.4
80°	40.4	40.4	40.4	38.4	40.4	38.4	38.4	38.4	34.2	32.2	30.2
82.5°	28.2	26.2	26.2	26.2	26.2	26.2	26.2	24.2	24.2	22.2	20.1
85°	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1	14.1	12.1	12.1
87.5°	8.1	10.1	10.1	10.1	10.1	10.1	10.1	8.1	8.1	8.1	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°	1671.2	1671.2	1671.2	1671.2	1671.2	1671.2	1671.2	1671.2	1671.2	1671.2	1671.2
2.5°	1663.1	1663.1	1667.1	1661.1	1671.2	1665.1	1663.1	1673.2	1667.1	1665.1	1669.2
5°	1649.0	1651.0	1653.0	1649.0	1659.1	1653.0	1653.0	1663.1	1659.1	1657.1	1663.1
7.5°	1630.9	1632.9	1636.9	1634.9	1643.0	1638.9	1640.9	1651.0	1647.0	1647.0	1653.0
10°	1608.6	1612.6	1616.8	1616.8	1626.8	1622.8	1622.8	1634.9	1630.9	1632.9	1640.9
12.5°	1582.4	1588.5	1594.5	1596.5	1606.6	1600.6	1602.6	1616.8	1614.8	1616.8	1624.8
15°	1554.1	1562.2	1568.2	1568.2	1580.4	1574.4	1580.4	1594.5	1590.5	1598.5	1608.6
17.5°	1521.9	1529.9	1538.0	1540.0	1552.1	1548.1	1556.1	1570.2	1570.2	1574.4	1586.4
20°	1491.6	1501.6	1505.8	1511.8	1523.9	1521.9	1525.9	1542.0	1542.0	1548.1	1560.2
22.5°	1451.2	1461.2	1469.4	1475.4	1485.5	1485.5	1491.6	1505.8	1505.8	1509.8	1521.9
25°	1406.8	1418.9	1425.0	1431.0	1441.1	1439.1	1445.1	1457.2	1459.2	1463.4	1475.4
27.5°	1350.2	1360.4	1368.5	1372.5	1386.6	1378.5	1384.6	1398.8	1396.8	1400.8	1410.9
30°	1279.6	1289.8	1297.8	1297.8	1309.9	1309.9	1316.0	1322.0	1322.0	1326.1	1334.1
32.5°	1196.9	1209.0	1209.0	1215.0	1223.1	1215.0	1223.1	1231.2	1227.1	1233.2	1239.2
35°	1102.0	1108.1	1110.1	1110.1	1116.1	1114.1	1112.1	1118.1	1114.1	1124.2	1130.2
37.5°	987.0	995.0	991.0	995.0	993.0	987.0	987.0	997.1	989.0	991.0	997.1
40°	876.0	876.0	874.0	863.9	865.9	859.9	857.8	859.9	851.8	849.8	857.8
42.5°	760.9	758.9	752.9	738.8	740.8	730.6	722.6	722.6	718.5	716.5	718.5
45°	658.0	651.9	641.9	625.8	621.6	613.6	597.4	593.4	587.4	587.4	589.4
47.5°	563.1	555.0	538.9	520.8	510.6	500.5	484.4	478.4	468.2	464.2	468.2
50°	484.4	470.2	450.1	423.9	413.8	401.6	385.5	375.4	365.4	361.2	359.2
52.5°	411.8	391.6	371.4	339.1	331.0	318.9	296.8	286.6	276.5	268.5	268.5
55°	349.1	331.0	302.8	272.5	260.4	248.2	226.0	211.9	201.9	197.8	193.8
57.5°	292.6	272.5	246.2	214.0	201.9	189.8	167.5	153.4	143.2	137.2	133.2
60°	246.2	224.0	197.8	169.5	155.4	143.2	121.1	107.0	96.9	90.9	86.8
62.5°	201.9	183.6	157.4	131.2	119.1	107.0	88.8	74.6	64.6	60.5	54.5
65°	169.5	151.4	127.1	105.0	94.9	82.8	66.6	54.5	46.4	40.4	36.4
67.5°	137.2	123.1	102.9	82.8	72.6	64.6	50.5	40.4	32.2	28.2	26.2
70°	109.0	94.9	78.8	62.6	56.5	48.5	38.4	28.2	24.2	20.1	18.1
72.5°	80.8	70.6	58.5	46.4	40.4	36.4	26.2	22.2	16.1	14.1	12.1
75°	58.5	50.5	42.4	32.2	28.2	26.2	20.1	14.1	12.1	10.1	8.1
77.5°	40.4	36.4	28.2	22.2	20.1	18.1	14.1	10.1	8.1	6.0	6.0
80°	26.2	22.2	18.1	14.1	14.1	12.1	8.1	6.0	6.0	4.0	4.0
82.5°	16.1	14.1	12.1	10.1	8.1	8.1	6.0	4.0	4.0	2.0	2.0
85°	10.1	8.1	6.0	6.0	4.0	4.0	4.0	2.0	2.0	2.0	2.0
87.5°	4.0	4.0	4.0	2.0	2.0	2.0	2.0	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°	1671.2	1671.2	1671.2	1671.2	1671.2	1671.2	1671.2	1671.2	1671.2	1671.2	1671.2
2.5°	1669.2	1669.2	1673.2	1667.1	1671.2	1671.2	1675.2	1667.1	1671.2	1673.2	1677.2
5°	1661.1	1663.1	1667.1	1665.1	1667.1	1667.1	1671.2	1661.1	1669.2	1669.2	1675.2
7.5°	1653.0	1653.0	1657.1	1655.0	1659.1	1661.1	1665.1	1657.1	1665.1	1665.1	1671.2
10°	1643.0	1643.0	1649.0	1647.0	1653.0	1655.0	1661.1	1653.0	1661.1	1663.1	1669.2
12.5°	1628.9	1630.9	1636.9	1636.9	1643.0	1647.0	1653.0	1649.0	1659.1	1661.1	1669.2
15°	1612.6	1616.8	1624.8	1622.8	1628.9	1634.9	1643.0	1636.9	1651.0	1655.0	1663.1
17.5°	1592.5	1596.5	1602.6	1602.6	1608.6	1612.6	1622.8	1618.8	1630.9	1632.9	1643.0
20°	1562.2	1568.2	1576.4	1574.4	1580.4	1584.4	1592.5	1588.5	1600.6	1604.6	1614.8
22.5°	1525.9	1529.9	1536.0	1536.0	1542.0	1546.1	1554.1	1548.1	1560.2	1562.2	1570.2
25°	1477.5	1481.5	1485.5	1487.5	1493.6	1495.6	1499.6	1495.6	1505.8	1507.8	1517.8
27.5°	1414.9	1416.9	1423.0	1423.0	1427.0	1429.0	1435.0	1427.0	1441.1	1441.1	1447.1
30°	1340.2	1338.1	1346.2	1342.2	1346.2	1346.2	1352.2	1348.2	1358.4	1354.4	1360.4
32.5°	1241.2	1245.4	1245.4	1241.2	1249.4	1247.4	1247.4	1243.4	1249.4	1251.4	1255.4
35°	1126.2	1132.2	1132.2	1134.4	1136.4	1130.2	1132.2	1120.2	1130.2	1132.2	1134.4
37.5°	1001.1	995.0	999.1	993.0	1003.1	991.0	991.0	983.0	991.0	991.0	993.0
40°	857.8	855.8	859.9	855.8	853.8	851.8	847.8	841.6	849.8	845.8	851.8
42.5°	722.6	720.5	720.5	716.5	714.5	714.5	710.5	706.4	704.4	704.4	714.5
45°	583.2	587.4	583.2	581.2	585.4	581.2	583.2	575.2	579.2	575.2	579.2
47.5°	466.2	468.2	464.2	460.2	466.2	460.2	460.2	454.1	462.2	462.2	458.1
50°	361.2	359.2	355.2	359.2	357.2	357.2	357.2	351.2	355.2	349.1	353.2
52.5°	266.4	264.4	264.4	262.4	264.4	262.4	262.4	260.4	260.4	258.4	260.4
55°	193.8	191.8	187.8	187.8	187.8	189.8	187.8	185.8	185.8	183.6	185.8
57.5°	131.2	127.1	127.1	127.1	127.1	125.1	125.1	123.1	125.1	123.1	125.1
60°	84.8	84.8	80.8	80.8	80.8	80.8	80.8	78.8	80.8	80.8	80.8
62.5°	52.5	52.5	50.5	48.5	50.5	48.5	48.5	48.5	50.5	48.5	50.5
65°	34.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
67.5°	24.2	22.2	22.2	22.2	22.2	22.2	22.2	20.1	22.2	22.2	22.2
70°	16.1	16.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1
72.5°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
75°	8.1	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
77.5°	6.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
80°	4.0	4.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
82.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
85°	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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: P252277

CATALOG NUMBER: LE_6B30D010 EC6B30509027 6LBSW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1671.2	1671.2	1671.2	1671.2	1671.2	1671.2	1671.2	1671.2
2.5°	1671.2	1673.2	1669.2	1671.2	1667.1	1671.2	1673.2	1677.2
5°	1667.1	1669.2	1665.1	1669.2	1665.1	1669.2	1671.2	1675.2
7.5°	1663.1	1667.1	1663.1	1667.1	1663.1	1667.1	1669.2	1673.2
10°	1663.1	1669.2	1665.1	1671.2	1665.1	1669.2	1673.2	1675.2
12.5°	1663.1	1669.2	1667.1	1671.2	1669.2	1673.2	1677.2	1681.2
15°	1659.1	1665.1	1661.1	1667.1	1665.1	1667.1	1675.2	1675.2
17.5°	1636.9	1643.0	1643.0	1647.0	1647.0	1653.0	1657.1	1661.1
20°	1608.6	1614.8	1612.6	1618.8	1618.8	1624.8	1628.9	1632.9
22.5°	1566.2	1574.4	1572.2	1578.4	1576.4	1580.4	1588.5	1586.4
25°	1511.8	1521.9	1519.9	1523.9	1521.9	1521.9	1525.9	1527.9
27.5°	1445.1	1451.2	1449.1	1453.2	1449.1	1453.2	1457.2	1459.2
30°	1358.4	1362.4	1360.4	1362.4	1360.4	1364.4	1366.4	1370.5
32.5°	1253.4	1259.5	1253.4	1257.5	1255.4	1255.4	1263.5	1259.5
35°	1128.2	1130.2	1132.2	1132.2	1128.2	1130.2	1134.4	1134.4
37.5°	989.0	999.1	987.0	993.0	991.0	991.0	991.0	997.1
40°	843.6	845.8	841.6	841.6	841.6	839.6	847.8	845.8
42.5°	706.4	708.5	706.4	700.4	702.4	702.4	708.5	700.4
45°	573.2	577.2	575.2	575.2	571.2	571.2	573.2	569.1
47.5°	454.1	458.1	452.1	454.1	450.1	454.1	452.1	456.1
50°	345.1	349.1	347.1	349.1	349.1	345.1	351.2	343.1
52.5°	258.4	260.4	258.4	256.4	254.4	254.4	258.4	256.4
55°	183.6	181.6	181.6	181.6	183.6	183.6	181.6	179.6
57.5°	123.1	123.1	121.1	121.1	123.1	119.1	121.1	119.1
60°	78.8	78.8	78.8	78.8	76.8	78.8	78.8	78.8
62.5°	48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5
65°	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2
67.5°	20.1	22.2	22.2	22.2	20.1	20.1	20.1	20.1
70°	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1
72.5°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
75°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
77.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
80°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
82.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0
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)