

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: P252278

Luminaire Tested: **LE_6B30D010 EC6B30509030 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252278
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 EC6B30509030 6LBSW1H
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2916.3 lumens
Efficiency: N/A
Efficacy: 104.2 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

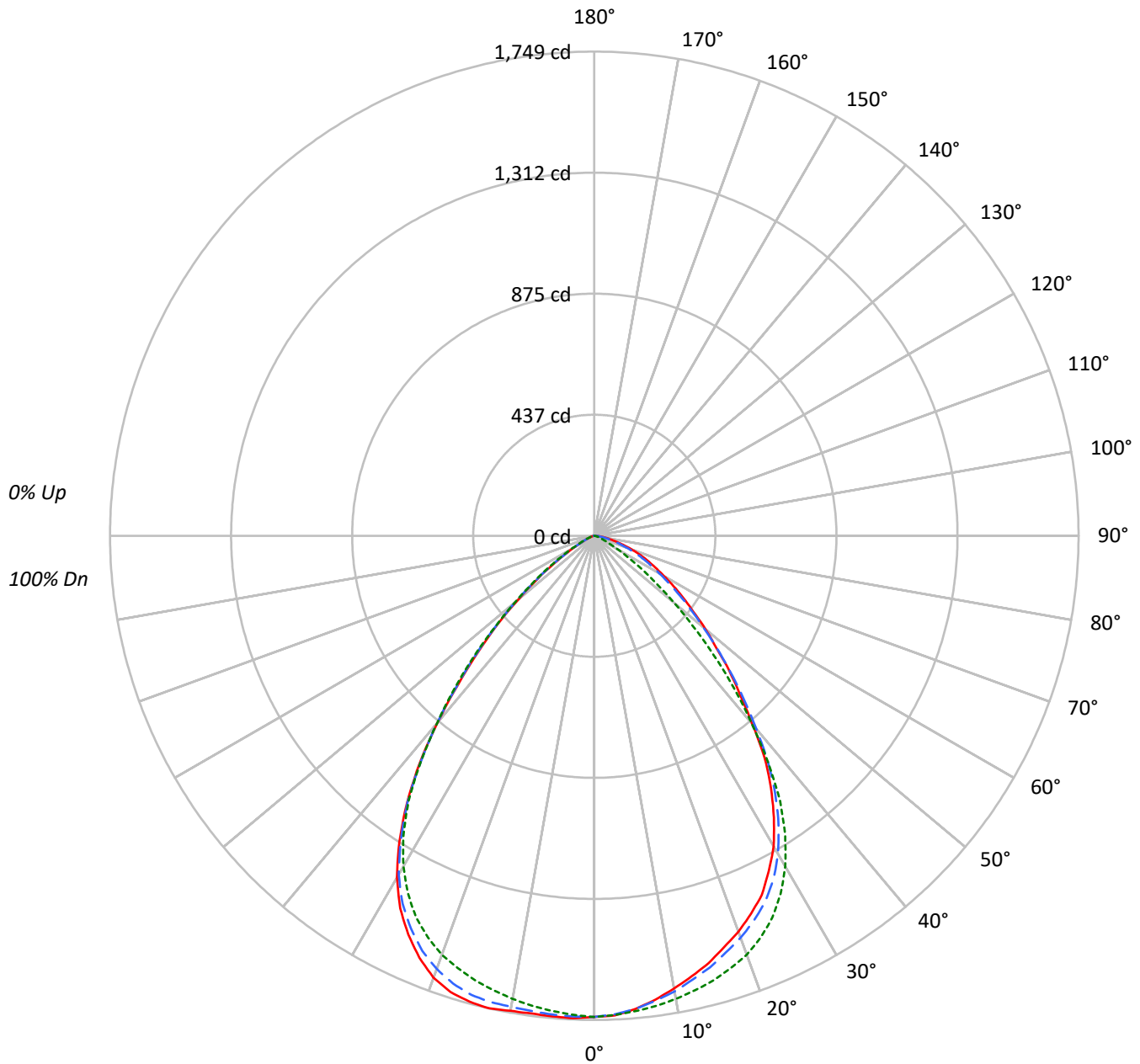
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	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	102	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°	113401	113401	113401
5°	112322	112878	114116
10°	110010	112514	115436
15°	107905	112309	117692
20°	105669	111792	117916
25°	103068	109561	114399
30°	97572	103900	107388
35°	88612	93136	93972
40°	75627	75278	74912
45°	63533	56364	54620
50°	53062	38142	36224
55°	44656	23408	21259
60°	37813	12330	10686
65°	32727	6484	5187
70°	27239	4006	2823
75°	20115	2647	1563
80°	15780	1578	789
85°	12576	1572	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.8	5.6
10°-20°	469.1	16.1
20°-30°	692.7	23.8
30°-40°	713.8	24.5
40°-50°	493.0	16.9
50°-60°	243.0	8.3
60°-70°	98.5	3.4
70°-80°	35.1	1.2
80°-90°	7.2	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°	1325.5	45.5
0°-40°	2039.4	69.9
0°-60°	2775.4	95.2
0°-90°	2916.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2916.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1738	1738	1738	1738	1738	
5°	1715	1715	1724	1736	1742	162
15°	1598	1614	1663	1717	1742	450
25°	1432	1459	1522	1566	1589	655
35°	1113	1140	1169	1176	1180	689
45°	689	693	611	602	592	532
55°	393	378	206	193	187	355
65°	212	191	42	34	34	211
75°	80	67	10	6	6	90
85°	17	13	2	0	0	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°	1738.2	1738.2	1738.2	1738.2	1738.2	1738.2	1738.2	1738.2	1738.2	1738.2	1738.2
2.5°	1734.1	1727.8	1732.0	1723.6	1734.1	1723.6	1725.6	1727.8	1725.6	1727.8	1729.9
5°	1715.1	1708.9	1715.1	1704.6	1715.1	1708.9	1708.9	1711.0	1711.0	1713.1	1715.1
7.5°	1690.0	1683.6	1690.0	1679.5	1692.1	1685.8	1685.8	1690.0	1687.9	1690.0	1694.1
10°	1660.6	1652.2	1658.5	1652.2	1664.8	1656.4	1660.6	1660.6	1660.6	1666.9	1671.1
12.5°	1629.1	1620.8	1629.1	1618.6	1631.2	1624.9	1627.0	1633.2	1635.4	1639.6	1641.8
15°	1597.6	1587.1	1591.2	1585.0	1597.6	1591.2	1593.4	1601.8	1601.8	1608.1	1614.4
17.5°	1557.8	1549.4	1557.8	1549.4	1559.9	1555.6	1559.9	1566.1	1566.1	1572.4	1578.8
20°	1522.0	1513.6	1519.9	1513.6	1526.2	1519.9	1522.0	1530.4	1532.5	1538.9	1545.1
22.5°	1478.0	1471.6	1475.9	1469.5	1482.1	1478.0	1480.0	1488.5	1490.5	1494.8	1505.2
25°	1431.8	1419.1	1425.5	1421.2	1433.9	1427.5	1431.8	1440.1	1444.4	1450.6	1459.0
27.5°	1364.6	1358.2	1362.5	1362.5	1373.0	1366.6	1368.8	1377.1	1383.5	1389.8	1400.2
30°	1295.2	1284.8	1289.0	1291.1	1299.5	1295.2	1299.5	1307.9	1310.0	1318.4	1326.8
32.5°	1207.1	1202.9	1211.4	1207.1	1211.4	1211.4	1213.4	1219.8	1223.9	1228.1	1238.6
35°	1112.6	1104.2	1112.6	1108.5	1119.0	1112.6	1119.0	1125.2	1125.2	1133.6	1140.0
37.5°	1009.8	999.2	1003.5	1003.5	1007.8	1005.6	1005.6	1016.1	1018.1	1024.5	1030.8
40°	888.0	883.9	892.2	890.1	892.2	892.2	894.4	900.6	904.9	906.9	909.0
42.5°	778.9	781.0	783.0	783.0	783.0	783.0	783.0	791.5	789.4	795.6	797.8
45°	688.6	680.2	684.4	682.2	688.6	682.2	688.6	694.9	690.6	697.0	692.8
47.5°	596.2	596.2	596.2	594.1	598.4	596.2	600.4	602.5	602.5	602.5	600.4
50°	522.8	516.5	518.5	518.5	520.6	518.5	522.8	524.9	524.9	520.6	512.2
52.5°	451.4	449.2	449.2	453.5	453.5	451.4	451.4	451.4	451.4	445.1	440.9
55°	392.6	388.4	390.5	390.5	390.5	390.5	392.6	390.5	390.5	384.1	377.9
57.5°	340.1	335.9	335.9	335.9	338.0	335.9	335.9	335.9	333.8	327.5	319.1
60°	289.8	287.6	289.8	289.8	291.8	289.8	289.8	289.8	285.5	279.2	270.9
62.5°	247.8	247.8	247.8	249.9	249.9	247.8	247.8	245.6	243.5	235.1	226.8
65°	212.0	209.9	212.0	212.0	214.1	214.1	212.0	209.9	207.9	199.5	191.0
67.5°	176.4	174.2	176.4	176.4	178.5	176.4	176.4	176.4	170.0	165.9	157.5
70°	142.8	140.6	140.6	140.6	142.8	138.5	140.6	140.6	136.5	130.1	121.8
72.5°	109.1	109.1	109.1	109.1	109.1	109.1	107.1	107.1	102.9	96.6	92.4
75°	79.8	79.8	81.9	81.9	79.8	79.8	79.8	77.6	75.6	71.4	67.1
77.5°	58.8	58.8	58.8	58.8	56.6	56.6	56.6	54.6	52.5	50.4	46.1
80°	42.0	42.0	42.0	39.9	42.0	39.9	39.9	39.9	35.8	33.6	31.5
82.5°	29.4	27.2	27.2	27.2	27.2	27.2	27.2	25.2	25.2	23.1	21.0
85°	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	14.8	12.6	12.6
87.5°	8.4	10.5	10.5	10.5	10.5	10.5	10.5	8.4	8.4	8.4	6.2
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°	1738.2	1738.2	1738.2	1738.2	1738.2	1738.2	1738.2	1738.2	1738.2	1738.2	1738.2
2.5°	1729.9	1729.9	1734.1	1727.8	1738.2	1732.0	1729.9	1740.4	1734.1	1732.0	1736.1
5°	1715.1	1717.2	1719.4	1715.1	1725.6	1719.4	1719.4	1729.9	1725.6	1723.6	1729.9
7.5°	1696.2	1698.4	1702.6	1700.5	1708.9	1704.6	1706.8	1717.2	1713.1	1713.1	1719.4
10°	1673.1	1677.4	1681.6	1681.6	1692.1	1687.9	1687.9	1700.5	1696.2	1698.4	1706.8
12.5°	1645.9	1652.2	1658.5	1660.6	1671.1	1664.8	1666.9	1681.6	1679.5	1681.6	1690.0
15°	1616.5	1624.9	1631.2	1631.2	1643.8	1637.5	1643.8	1658.5	1654.2	1662.8	1673.1
17.5°	1582.9	1591.2	1599.8	1601.8	1614.4	1610.2	1618.6	1633.2	1633.2	1637.5	1650.1
20°	1551.4	1561.9	1566.1	1572.4	1585.0	1582.9	1587.1	1603.9	1603.9	1610.2	1622.8
22.5°	1509.4	1519.9	1528.4	1534.6	1545.1	1545.1	1551.4	1566.1	1566.1	1570.4	1582.9
25°	1463.2	1475.9	1482.1	1488.5	1499.0	1496.9	1503.1	1515.8	1517.9	1522.0	1534.6
27.5°	1404.5	1415.0	1423.4	1427.5	1442.2	1433.9	1440.1	1454.9	1452.8	1457.0	1467.5
30°	1331.0	1341.5	1349.9	1349.9	1362.5	1362.5	1368.8	1375.1	1375.1	1379.2	1387.6
32.5°	1244.9	1257.5	1257.5	1263.8	1272.2	1263.8	1272.2	1280.6	1276.4	1282.8	1289.0
35°	1146.2	1152.5	1154.6	1154.6	1161.0	1158.9	1156.8	1163.0	1158.9	1169.4	1175.6
37.5°	1026.6	1035.0	1030.8	1035.0	1032.9	1026.6	1026.6	1037.1	1028.6	1030.8	1037.1
40°	911.1	911.1	909.0	898.5	900.6	894.4	892.2	894.4	885.9	883.9	892.2
42.5°	791.5	789.4	783.0	768.4	770.5	760.0	751.6	751.6	747.4	745.2	747.4
45°	684.4	678.1	667.6	650.8	646.6	638.2	621.4	617.2	610.9	610.9	613.0
47.5°	585.8	577.4	560.5	541.6	531.1	520.6	503.9	497.5	487.0	482.9	487.0
50°	503.9	489.1	468.1	440.9	430.4	417.8	401.0	390.5	380.0	375.8	373.6
52.5°	428.2	407.2	386.2	352.8	344.2	331.8	308.6	298.1	287.6	279.2	279.2
55°	363.2	344.2	314.9	283.4	270.9	258.2	235.1	220.4	209.9	205.8	201.5
57.5°	304.4	283.4	256.1	222.5	209.9	197.4	174.2	159.5	149.0	142.8	138.5
60°	256.1	233.0	205.8	176.4	161.6	149.0	126.0	111.2	100.8	94.5	90.2
62.5°	209.9	191.0	163.8	136.5	123.9	111.2	92.4	77.6	67.1	63.0	56.6
65°	176.4	157.5	132.2	109.1	98.6	86.1	69.2	56.6	48.2	42.0	37.8
67.5°	142.8	128.0	107.1	86.1	75.6	67.1	52.5	42.0	33.6	29.4	27.2
70°	113.4	98.6	81.9	65.1	58.8	50.4	39.9	29.4	25.2	21.0	18.9
72.5°	84.0	73.5	60.9	48.2	42.0	37.8	27.2	23.1	16.8	14.8	12.6
75°	60.9	52.5	44.1	33.6	29.4	27.2	21.0	14.8	12.6	10.5	8.4
77.5°	42.0	37.8	29.4	23.1	21.0	18.9	14.8	10.5	8.4	6.2	6.2
80°	27.2	23.1	18.9	14.8	14.8	12.6	8.4	6.2	6.2	4.2	4.2
82.5°	16.8	14.8	12.6	10.5	8.4	8.4	6.2	4.2	4.2	2.1	2.1
85°	10.5	8.4	6.2	6.2	4.2	4.2	4.2	2.1	2.1	2.1	2.1
87.5°	4.2	4.2	4.2	2.1	2.1	2.1	2.1	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°	1738.2	1738.2	1738.2	1738.2	1738.2	1738.2	1738.2	1738.2	1738.2	1738.2	1738.2
2.5°	1736.1	1736.1	1740.4	1734.1	1738.2	1738.2	1742.5	1734.1	1738.2	1740.4	1744.6
5°	1727.8	1729.9	1734.1	1732.0	1734.1	1734.1	1738.2	1727.8	1736.1	1736.1	1742.5
7.5°	1719.4	1719.4	1723.6	1721.5	1725.6	1727.8	1732.0	1723.6	1732.0	1732.0	1738.2
10°	1708.9	1708.9	1715.1	1713.1	1719.4	1721.5	1727.8	1719.4	1727.8	1729.9	1736.1
12.5°	1694.1	1696.2	1702.6	1702.6	1708.9	1713.1	1719.4	1715.1	1725.6	1727.8	1736.1
15°	1677.4	1681.6	1690.0	1687.9	1694.1	1700.5	1708.9	1702.6	1717.2	1721.5	1729.9
17.5°	1656.4	1660.6	1666.9	1666.9	1673.1	1677.4	1687.9	1683.6	1696.2	1698.4	1708.9
20°	1624.9	1631.2	1639.6	1637.5	1643.8	1648.0	1656.4	1652.2	1664.8	1669.0	1679.5
22.5°	1587.1	1591.2	1597.6	1597.6	1603.9	1608.1	1616.5	1610.2	1622.8	1624.9	1633.2
25°	1536.8	1540.9	1545.1	1547.2	1553.5	1555.6	1559.9	1555.6	1566.1	1568.2	1578.8
27.5°	1471.6	1473.8	1480.0	1480.0	1484.2	1486.4	1492.6	1484.2	1499.0	1499.0	1505.2
30°	1394.0	1391.9	1400.2	1396.1	1400.2	1400.2	1406.6	1402.4	1412.9	1408.6	1415.0
32.5°	1291.1	1295.2	1295.2	1291.1	1299.5	1297.4	1297.4	1293.2	1299.5	1301.6	1305.8
35°	1171.5	1177.8	1177.8	1179.9	1181.9	1175.6	1177.8	1165.1	1175.6	1177.8	1179.9
37.5°	1041.2	1035.0	1039.1	1032.9	1043.4	1030.8	1030.8	1022.4	1030.8	1030.8	1032.9
40°	892.2	890.1	894.4	890.1	888.0	885.9	881.8	875.4	883.9	879.6	885.9
42.5°	751.6	749.5	749.5	745.2	743.1	743.1	739.0	734.8	732.6	732.6	743.1
45°	606.8	610.9	606.8	604.6	608.8	604.6	606.8	598.4	602.5	598.4	602.5
47.5°	485.0	487.0	482.9	478.6	485.0	478.6	478.6	472.4	480.8	480.8	476.5
50°	375.8	373.6	369.5	373.6	371.6	371.6	371.6	365.2	369.5	363.2	367.4
52.5°	277.1	275.0	275.0	272.9	275.0	272.9	272.9	270.9	270.9	268.8	270.9
55°	201.5	199.5	195.2	195.2	195.2	197.4	195.2	193.1	193.1	191.0	193.1
57.5°	136.5	132.2	132.2	132.2	132.2	130.1	130.1	128.0	130.1	128.0	130.1
60°	88.1	88.1	84.0	84.0	84.0	84.0	84.0	81.9	84.0	84.0	84.0
62.5°	54.6	54.6	52.5	50.4	52.5	50.4	50.4	50.4	52.5	50.4	52.5
65°	35.8	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6
67.5°	25.2	23.1	23.1	23.1	23.1	23.1	23.1	21.0	23.1	23.1	23.1
70°	16.8	16.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8
72.5°	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
75°	8.4	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
77.5°	6.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
80°	4.2	4.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
82.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
85°	2.1	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	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
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: P252278

CATALOG NUMBER: LE_6B30D010 EC6B30509030 6LBSW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1738.2	1738.2	1738.2	1738.2	1738.2	1738.2	1738.2	1738.2
2.5°	1738.2	1740.4	1736.1	1738.2	1734.1	1738.2	1740.4	1744.6
5°	1734.1	1736.1	1732.0	1736.1	1732.0	1736.1	1738.2	1742.5
7.5°	1729.9	1734.1	1729.9	1734.1	1729.9	1734.1	1736.1	1740.4
10°	1729.9	1736.1	1732.0	1738.2	1732.0	1736.1	1740.4	1742.5
12.5°	1729.9	1736.1	1734.1	1738.2	1736.1	1740.4	1744.6	1748.8
15°	1725.6	1732.0	1727.8	1734.1	1732.0	1734.1	1742.5	1742.5
17.5°	1702.6	1708.9	1708.9	1713.1	1713.1	1719.4	1723.6	1727.8
20°	1673.1	1679.5	1677.4	1683.6	1683.6	1690.0	1694.1	1698.4
22.5°	1629.1	1637.5	1635.4	1641.8	1639.6	1643.8	1652.2	1650.1
25°	1572.4	1582.9	1580.9	1585.0	1582.9	1582.9	1587.1	1589.2
27.5°	1503.1	1509.4	1507.4	1511.5	1507.4	1511.5	1515.8	1517.9
30°	1412.9	1417.1	1415.0	1417.1	1415.0	1419.1	1421.2	1425.5
32.5°	1303.8	1310.0	1303.8	1307.9	1305.8	1305.8	1314.2	1310.0
35°	1173.5	1175.6	1177.8	1177.8	1173.5	1175.6	1179.9	1179.9
37.5°	1028.6	1039.1	1026.6	1032.9	1030.8	1030.8	1030.8	1037.1
40°	877.5	879.6	875.4	875.4	875.4	873.4	881.8	879.6
42.5°	734.8	736.9	734.8	728.5	730.6	730.6	736.9	728.5
45°	596.2	600.4	598.4	598.4	594.1	594.1	596.2	592.0
47.5°	472.4	476.5	470.2	472.4	468.1	472.4	470.2	474.5
50°	359.0	363.2	361.1	363.2	363.2	359.0	365.2	356.9
52.5°	268.8	270.9	268.8	266.6	264.5	264.5	268.8	266.6
55°	191.0	189.0	189.0	189.0	191.0	191.0	189.0	186.9
57.5°	128.0	128.0	126.0	126.0	128.0	123.9	126.0	123.9
60°	81.9	81.9	81.9	81.9	79.8	81.9	81.9	81.9
62.5°	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4
65°	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6
67.5°	21.0	23.1	23.1	23.1	21.0	21.0	21.0	21.0
70°	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8
72.5°	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
75°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
77.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
80°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
82.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	2.1	2.1	2.1	2.1	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)