

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: P252279

Luminaire Tested: **LE\_6B30D010 EC6B30509035 6LBSW1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252279  
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 EC6B30509035 6LBSW1H  
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2957.5 lumens  
Efficiency: N/A  
Efficacy: 105.6 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

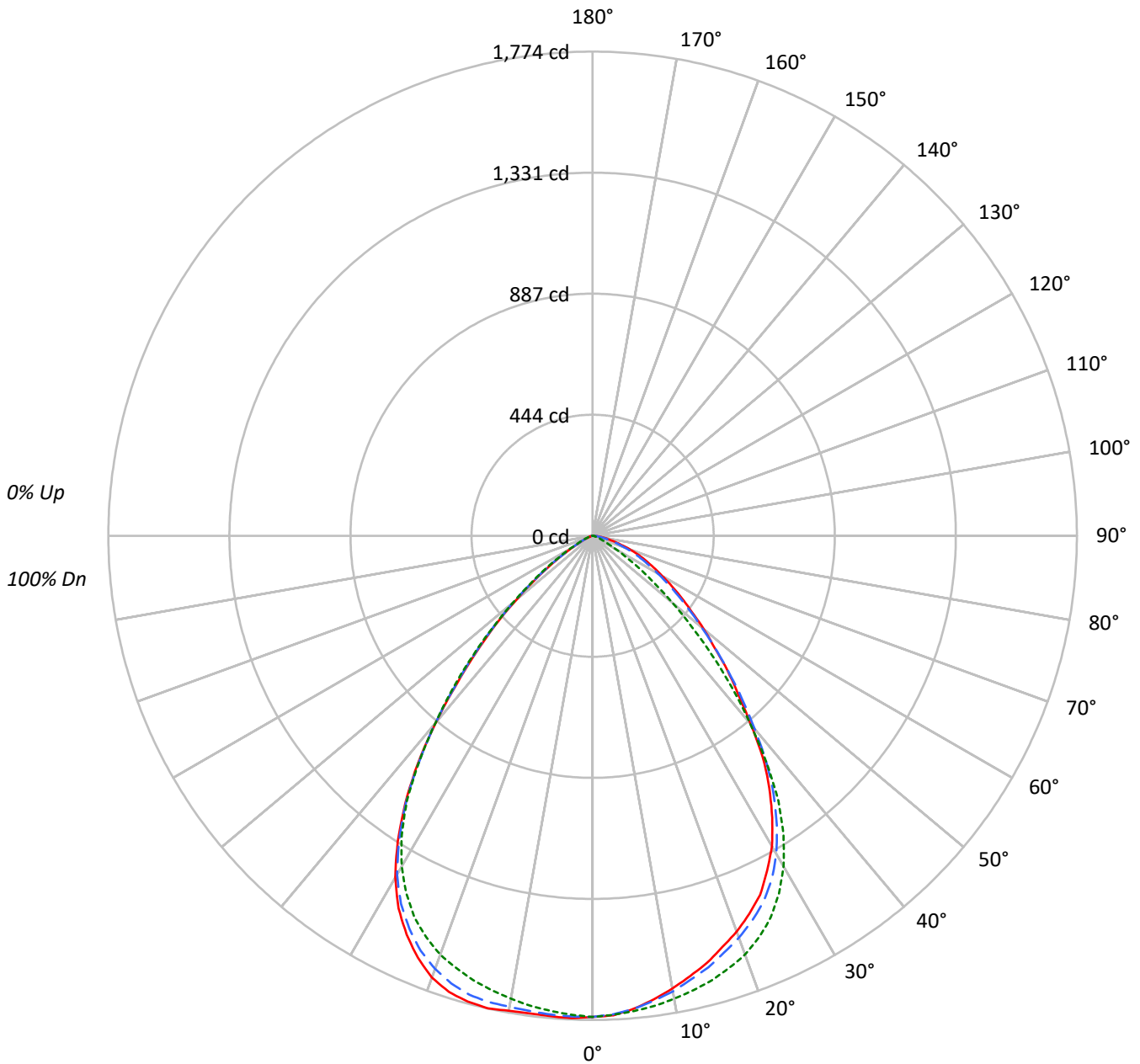
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	115013	115013	115013
5°	113913	114476	115727
10°	111567	114104	117065
15°	109432	113889	119354
20°	107162	113375	119582
25°	104522	111109	116026
30°	98958	105376	108902
35°	89870	94450	95294
40°	76700	76342	75976
45°	64437	57158	55395
50°	53803	38680	36742
55°	45281	23727	21554
60°	38335	12500	10830
65°	33190	6576	5264
70°	27621	4044	2842
75°	20392	2672	1613
80°	16005	1578	789
85°	12725	1572	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	166.1	5.6
10°-20°	475.7	16.1
20°-30°	702.4	23.8
30°-40°	723.9	24.5
40°-50°	500.0	16.9
50°-60°	246.5	8.3
60°-70°	99.9	3.4
70°-80°	35.6	1.2
80°-90°	7.3	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°	1344.3	45.5
0°-40°	2068.2	69.9
0°-60°	2814.7	95.2
0°-90°	2957.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2957.5	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1763	1763	1763	1763	1763	
5°	1739	1739	1748	1761	1767	164
15°	1620	1637	1686	1742	1767	456
25°	1452	1480	1544	1588	1612	664
35°	1128	1156	1186	1192	1196	699
45°	698	703	620	611	600	540
55°	398	383	209	196	190	360
65°	215	194	43	34	34	214
75°	81	68	11	6	6	91
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°	1762.9	1762.9	1762.9	1762.9	1762.9	1762.9	1762.9	1762.9	1762.9	1762.9	1762.9
2.5°	1758.6	1752.2	1756.5	1748.0	1758.6	1748.0	1750.1	1752.2	1750.1	1752.2	1754.4
5°	1739.4	1733.0	1739.4	1728.8	1739.4	1733.0	1733.0	1735.1	1735.1	1737.2	1739.4
7.5°	1713.9	1707.5	1713.9	1703.2	1716.0	1709.6	1709.6	1713.9	1711.8	1713.9	1718.1
10°	1684.1	1675.5	1682.0	1675.5	1688.4	1679.9	1684.1	1684.1	1684.1	1690.5	1694.8
12.5°	1652.1	1643.6	1652.1	1641.5	1654.2	1647.9	1650.0	1656.4	1658.5	1662.8	1664.9
15°	1620.2	1609.5	1613.9	1607.4	1620.2	1613.9	1616.0	1624.5	1624.5	1630.9	1637.2
17.5°	1579.8	1571.2	1579.8	1571.2	1581.9	1577.6	1581.9	1588.2	1588.2	1594.6	1601.0
20°	1543.5	1535.0	1541.4	1535.0	1547.9	1541.4	1543.5	1552.1	1554.2	1560.6	1567.0
22.5°	1498.9	1492.5	1496.8	1490.4	1503.1	1498.9	1501.0	1509.5	1511.6	1515.9	1526.5
25°	1452.0	1439.2	1445.6	1441.4	1454.1	1447.8	1452.0	1460.5	1464.8	1471.1	1479.8
27.5°	1383.9	1377.5	1381.8	1381.8	1392.4	1386.0	1388.1	1396.6	1403.0	1409.4	1420.1
30°	1313.6	1303.0	1307.2	1309.4	1317.9	1313.6	1317.9	1326.4	1328.5	1337.0	1345.5
32.5°	1224.2	1220.0	1228.5	1224.2	1228.5	1228.5	1230.6	1237.0	1241.2	1245.5	1256.1
35°	1128.4	1119.9	1128.4	1124.1	1134.8	1128.4	1134.8	1141.1	1141.1	1149.6	1156.1
37.5°	1024.1	1013.4	1017.6	1017.6	1022.0	1019.9	1019.9	1030.5	1032.6	1039.0	1045.4
40°	900.6	896.4	904.9	902.8	904.9	904.9	907.0	913.4	917.6	919.8	921.9
42.5°	789.9	792.0	794.1	794.1	794.1	794.1	794.1	802.6	800.5	806.9	809.0
45°	698.4	689.8	694.1	692.0	698.4	692.0	698.4	704.8	700.5	706.9	702.6
47.5°	604.6	604.6	604.6	602.5	606.8	604.6	608.9	611.0	611.0	611.0	608.9
50°	530.1	523.8	525.9	525.9	528.0	525.9	530.1	532.2	532.2	528.0	519.5
52.5°	457.8	455.6	455.6	459.9	459.9	457.8	457.8	457.8	457.8	451.4	447.1
55°	398.1	393.9	396.0	396.0	396.0	396.0	398.1	396.0	396.0	389.6	383.2
57.5°	344.9	340.6	340.6	340.6	342.8	340.6	340.6	340.6	338.5	332.1	323.6
60°	293.8	291.6	293.8	293.8	296.0	293.8	293.8	293.8	289.5	283.1	274.6
62.5°	251.2	251.2	251.2	253.4	253.4	251.2	251.2	249.1	247.0	238.5	229.9
65°	215.0	212.9	215.0	215.0	217.1	217.1	215.0	212.9	210.8	202.2	193.8
67.5°	178.9	176.8	178.9	178.9	181.0	178.9	178.9	178.9	172.5	168.2	159.6
70°	144.8	142.6	142.6	142.6	144.8	140.5	142.6	142.6	138.4	132.0	123.5
72.5°	110.8	110.8	110.8	110.8	110.8	110.8	108.6	108.6	104.4	97.9	93.6
75°	80.9	80.9	83.0	83.0	80.9	80.9	80.9	78.8	76.6	72.4	68.1
77.5°	59.6	59.6	59.6	59.6	57.5	57.5	57.5	55.4	53.2	51.1	46.9
80°	42.6	42.6	42.6	40.5	42.6	40.5	40.5	40.5	36.2	34.1	31.9
82.5°	29.8	27.6	27.6	27.6	27.6	27.6	27.6	25.5	25.5	23.4	21.2
85°	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	14.9	12.8	12.8
87.5°	8.5	10.6	10.6	10.6	10.6	10.6	10.6	8.5	8.5	8.5	6.4
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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1762.9	1762.9	1762.9	1762.9	1762.9	1762.9	1762.9	1762.9	1762.9	1762.9	1762.9
2.5°	1754.4	1754.4	1758.6	1752.2	1762.9	1756.5	1754.4	1765.0	1758.6	1756.5	1760.8
5°	1739.4	1741.5	1743.8	1739.4	1750.1	1743.8	1743.8	1754.4	1750.1	1748.0	1754.4
7.5°	1720.2	1722.4	1726.6	1724.5	1733.0	1728.8	1730.9	1741.5	1737.2	1737.2	1743.8
10°	1696.9	1701.1	1705.4	1705.4	1716.0	1711.8	1711.8	1724.5	1720.2	1722.4	1730.9
12.5°	1669.1	1675.5	1682.0	1684.1	1694.8	1688.4	1690.5	1705.4	1703.2	1705.4	1713.9
15°	1639.4	1647.9	1654.2	1654.2	1667.0	1660.6	1667.0	1682.0	1677.8	1686.2	1696.9
17.5°	1605.2	1613.9	1622.4	1624.5	1637.2	1633.0	1641.5	1656.4	1656.4	1660.6	1673.4
20°	1573.4	1584.0	1588.2	1594.6	1607.4	1605.2	1609.5	1626.6	1626.6	1633.0	1645.8
22.5°	1530.8	1541.4	1550.0	1556.4	1567.0	1567.0	1573.4	1588.2	1588.2	1592.5	1605.2
25°	1484.0	1496.8	1503.1	1509.5	1520.1	1518.0	1524.4	1537.1	1539.2	1543.5	1556.4
27.5°	1424.4	1435.0	1443.5	1447.8	1462.6	1454.1	1460.5	1475.4	1473.2	1477.5	1488.2
30°	1349.9	1360.5	1369.0	1369.0	1381.8	1381.8	1388.1	1394.5	1394.5	1398.8	1407.2
32.5°	1262.5	1275.2	1275.2	1281.6	1290.2	1281.6	1290.2	1298.8	1294.5	1300.9	1307.2
35°	1162.5	1168.9	1171.0	1171.0	1177.4	1175.2	1173.1	1179.5	1175.2	1185.9	1192.2
37.5°	1041.1	1049.6	1045.4	1049.6	1047.5	1041.1	1041.1	1051.8	1043.2	1045.4	1051.8
40°	924.0	924.0	921.9	911.2	913.4	907.0	904.9	907.0	898.5	896.4	904.9
42.5°	802.6	800.5	794.1	779.2	781.4	770.8	762.2	762.2	758.0	755.8	758.0
45°	694.1	687.6	677.0	660.0	655.8	647.2	630.2	626.0	619.5	619.5	621.6
47.5°	594.0	585.5	568.5	549.2	538.6	528.0	511.0	504.6	494.0	489.6	494.0
50°	511.0	496.1	474.8	447.1	436.5	423.6	406.6	396.0	385.4	381.1	379.0
52.5°	434.4	413.0	391.8	357.6	349.1	336.4	313.0	302.4	291.6	283.1	283.1
55°	368.4	349.1	319.4	287.4	274.6	261.9	238.5	223.5	212.9	208.6	204.4
57.5°	308.8	287.4	259.8	225.6	212.9	200.1	176.8	161.8	151.1	144.8	140.5
60°	259.8	236.4	208.6	178.9	163.9	151.1	127.8	112.9	102.2	95.8	91.5
62.5°	212.9	193.8	166.1	138.4	125.6	112.9	93.6	78.8	68.1	63.9	57.5
65°	178.9	159.6	134.1	110.8	100.1	87.2	70.2	57.5	49.0	42.6	38.4
67.5°	144.8	129.9	108.6	87.2	76.6	68.1	53.2	42.6	34.1	29.8	27.6
70°	115.0	100.1	83.0	66.0	59.6	51.1	40.5	29.8	25.5	21.2	19.1
72.5°	85.1	74.5	61.8	49.0	42.6	38.4	27.6	23.4	17.0	14.9	12.8
75°	61.8	53.2	44.8	34.1	29.8	27.6	21.2	14.9	12.8	10.6	8.5
77.5°	42.6	38.4	29.8	23.4	21.2	19.1	14.9	10.6	8.5	6.4	6.4
80°	27.6	23.4	19.1	14.9	14.9	12.8	8.5	6.4	6.4	4.2	4.2
82.5°	17.0	14.9	12.8	10.6	8.5	8.5	6.4	4.2	4.2	2.1	2.1
85°	10.6	8.5	6.4	6.4	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°	1762.9	1762.9	1762.9	1762.9	1762.9	1762.9	1762.9	1762.9	1762.9	1762.9	1762.9
2.5°	1760.8	1760.8	1765.0	1758.6	1762.9	1762.9	1767.1	1758.6	1762.9	1765.0	1769.2
5°	1752.2	1754.4	1758.6	1756.5	1758.6	1758.6	1762.9	1752.2	1760.8	1760.8	1767.1
7.5°	1743.8	1743.8	1748.0	1745.9	1750.1	1752.2	1756.5	1748.0	1756.5	1756.5	1762.9
10°	1733.0	1733.0	1739.4	1737.2	1743.8	1745.9	1752.2	1743.8	1752.2	1754.4	1760.8
12.5°	1718.1	1720.2	1726.6	1726.6	1733.0	1737.2	1743.8	1739.4	1750.1	1752.2	1760.8
15°	1701.1	1705.4	1713.9	1711.8	1718.1	1724.5	1733.0	1726.6	1741.5	1745.9	1754.4
17.5°	1679.9	1684.1	1690.5	1690.5	1696.9	1701.1	1711.8	1707.5	1720.2	1722.4	1733.0
20°	1647.9	1654.2	1662.8	1660.6	1667.0	1671.2	1679.9	1675.5	1688.4	1692.6	1703.2
22.5°	1609.5	1613.9	1620.2	1620.2	1626.6	1630.9	1639.4	1633.0	1645.8	1647.9	1656.4
25°	1558.5	1562.8	1567.0	1569.1	1575.5	1577.6	1581.9	1577.6	1588.2	1590.4	1601.0
27.5°	1492.5	1494.6	1501.0	1501.0	1505.2	1507.4	1513.8	1505.2	1520.1	1520.1	1526.5
30°	1413.8	1411.5	1420.1	1415.9	1420.1	1420.1	1426.5	1422.2	1432.9	1428.6	1435.0
32.5°	1309.4	1313.6	1313.6	1309.4	1317.9	1315.8	1315.8	1311.5	1317.9	1320.0	1324.2
35°	1188.0	1194.4	1194.4	1196.5	1198.6	1192.2	1194.4	1181.6	1192.2	1194.4	1196.5
37.5°	1056.0	1049.6	1053.9	1047.5	1058.1	1045.4	1045.4	1036.9	1045.4	1045.4	1047.5
40°	904.9	902.8	907.0	902.8	900.6	898.5	894.2	887.9	896.4	892.1	898.5
42.5°	762.2	760.1	760.1	755.8	753.6	753.6	749.4	745.1	743.0	743.0	753.6
45°	615.2	619.5	615.2	613.1	617.4	613.1	615.2	606.8	611.0	606.8	611.0
47.5°	491.8	494.0	489.6	485.4	491.8	485.4	485.4	479.0	487.5	487.5	483.2
50°	381.1	379.0	374.8	379.0	376.9	376.9	376.9	370.5	374.8	368.4	372.6
52.5°	281.0	278.9	278.9	276.8	278.9	276.8	276.8	274.6	274.6	272.5	274.6
55°	204.4	202.2	198.0	198.0	198.0	200.1	198.0	195.9	195.9	193.8	195.9
57.5°	138.4	134.1	134.1	134.1	134.1	132.0	132.0	129.9	132.0	129.9	132.0
60°	89.4	89.4	85.1	85.1	85.1	85.1	85.1	83.0	85.1	85.1	85.1
62.5°	55.4	55.4	53.2	51.1	53.2	51.1	51.1	51.1	53.2	51.1	53.2
65°	36.2	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1
67.5°	25.5	23.4	23.4	23.4	23.4	23.4	23.4	21.2	23.4	23.4	23.4
70°	17.0	17.0	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9
72.5°	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
75°	8.5	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
77.5°	6.4	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: P252279

CATALOG NUMBER: LE\_6B30D010 EC6B30509035 6LBSW1H

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1762.9	1762.9	1762.9	1762.9	1762.9	1762.9	1762.9	1762.9
2.5°	1762.9	1765.0	1760.8	1762.9	1758.6	1762.9	1765.0	1769.2
5°	1758.6	1760.8	1756.5	1760.8	1756.5	1760.8	1762.9	1767.1
7.5°	1754.4	1758.6	1754.4	1758.6	1754.4	1758.6	1760.8	1765.0
10°	1754.4	1760.8	1756.5	1762.9	1756.5	1760.8	1765.0	1767.1
12.5°	1754.4	1760.8	1758.6	1762.9	1760.8	1765.0	1769.2	1773.5
15°	1750.1	1756.5	1752.2	1758.6	1756.5	1758.6	1767.1	1767.1
17.5°	1726.6	1733.0	1733.0	1737.2	1737.2	1743.8	1748.0	1752.2
20°	1696.9	1703.2	1701.1	1707.5	1707.5	1713.9	1718.1	1722.4
22.5°	1652.1	1660.6	1658.5	1664.9	1662.8	1667.0	1675.5	1673.4
25°	1594.6	1605.2	1603.1	1607.4	1605.2	1605.2	1609.5	1611.8
27.5°	1524.4	1530.8	1528.6	1532.9	1528.6	1532.9	1537.1	1539.2
30°	1432.9	1437.1	1435.0	1437.1	1435.0	1439.2	1441.4	1445.6
32.5°	1322.1	1328.5	1322.1	1326.4	1324.2	1324.2	1332.8	1328.5
35°	1190.1	1192.2	1194.4	1194.4	1190.1	1192.2	1196.5	1196.5
37.5°	1043.2	1053.9	1041.1	1047.5	1045.4	1045.4	1045.4	1051.8
40°	890.0	892.1	887.9	887.9	887.9	885.6	894.2	892.1
42.5°	745.1	747.2	745.1	738.8	740.9	740.9	747.2	738.8
45°	604.6	608.9	606.8	606.8	602.5	602.5	604.6	600.4
47.5°	479.0	483.2	476.9	479.0	474.8	479.0	476.9	481.1
50°	364.1	368.4	366.2	368.4	368.4	364.1	370.5	362.0
52.5°	272.5	274.6	272.5	270.4	268.2	268.2	272.5	270.4
55°	193.8	191.6	191.6	191.6	193.8	193.8	191.6	189.5
57.5°	129.9	129.9	127.8	127.8	129.9	125.6	127.8	125.6
60°	83.0	83.0	83.0	83.0	80.9	83.0	83.0	83.0
62.5°	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1
65°	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1
67.5°	21.2	23.4	23.4	23.4	21.2	21.2	21.2	21.2
70°	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9
72.5°	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
75°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
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)