

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: P252689

Luminaire Tested: **LE\_6B30D010 EC6B30508035 6LBDW1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252689  
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 EC6B30508035 6LBDW1H  
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3533.7 lumens  
Efficiency: N/A  
Efficacy: 126.2 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

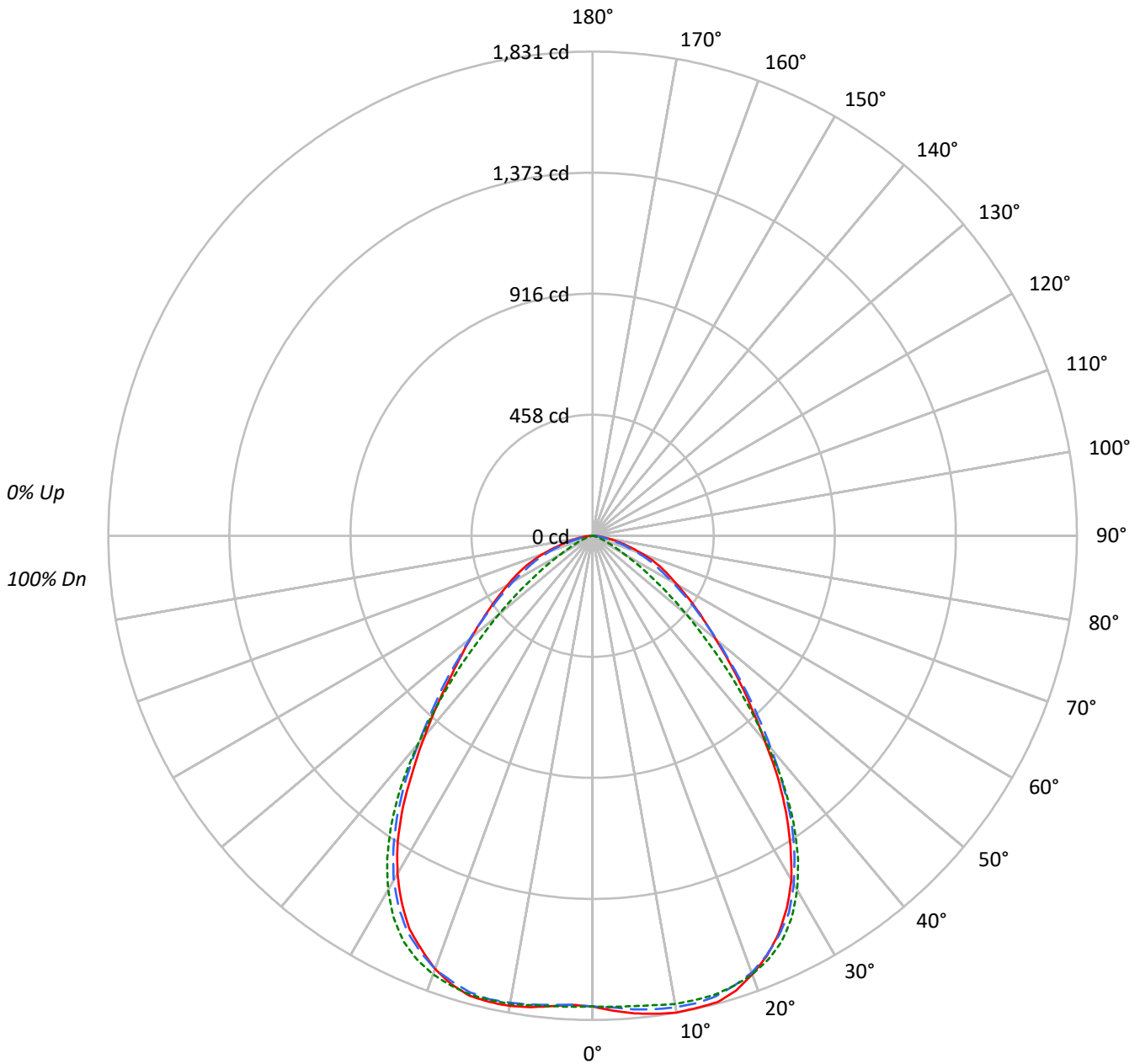
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P252689

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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	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°	116154	116154	116154
5°	118740	116926	116926
10°	121285	119112	119609
15°	123318	121272	121609
20°	122554	122554	120985
25°	119639	121813	118012
30°	113256	116473	111162
35°	101483	105497	99475
40°	86222	87286	84067
45°	72963	66689	70398
50°	61598	47033	60837
55°	54142	30358	53562
60°	47965	18072	48291
65°	44320	10883	44320
70°	38436	6257	37463
75°	30475	3806	28585
80°	22693	2818	21753
85°	20810	1871	18789



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.4	4.9
10°-20°	507.3	14.4
20°-30°	763.0	21.6
30°-40°	802.2	22.7
40°-50°	599.2	17.0
50°-60°	373.1	10.6
60°-70°	212.2	6.0
70°-80°	87.4	2.5
80°-90°	18.0	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°	1441.7	40.8
0°-40°	2243.8	63.5
0°-60°	3216.1	91.0
0°-90°	3533.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3533.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1780	1780	1780	1780	1780	
5°	1813	1798	1785	1780	1785	174
15°	1826	1803	1796	1788	1800	513
25°	1662	1667	1692	1654	1639	761
35°	1274	1307	1325	1287	1249	791
45°	791	808	723	793	763	613
55°	476	466	267	458	471	428
65°	287	257	70	257	287	283
75°	121	96	15	93	113	131
85°	28	18	2	15	25	31
90°	0	0	0	0	0	



TEST NUMBER: P252689

CATALOG NUMBER: LE\_6B30D010 EC6B30508035 6LBDW1H

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1780.4	1780.4	1780.4	1780.4	1780.4	1780.4	1780.4	1780.4	1780.4	1780.4	1780.4
2.5°	1798.0	1795.5	1798.0	1793.0	1790.5	1790.5	1793.0	1787.9	1785.4	1787.9	1785.4
5°	1813.1	1808.1	1810.6	1808.1	1803.0	1803.0	1805.5	1798.0	1798.0	1800.5	1798.0
7.5°	1823.2	1823.2	1823.2	1818.1	1815.6	1813.1	1818.1	1810.6	1808.1	1808.1	1805.5
10°	1830.8	1828.2	1830.8	1825.8	1820.6	1818.1	1823.2	1818.1	1813.1	1818.1	1810.6
12.5°	1828.2	1828.2	1828.2	1825.8	1820.6	1818.1	1823.2	1815.6	1813.1	1815.6	1810.6
15°	1825.8	1818.1	1820.6	1818.1	1810.6	1810.6	1813.1	1805.5	1800.5	1808.1	1803.0
17.5°	1803.0	1798.0	1800.5	1795.5	1790.5	1787.9	1790.5	1787.9	1782.9	1787.9	1782.9
20°	1765.2	1765.2	1767.8	1762.8	1757.8	1755.2	1760.2	1755.2	1750.1	1757.8	1757.8
22.5°	1720.0	1720.0	1720.0	1717.4	1714.9	1714.9	1714.9	1712.4	1709.9	1714.9	1717.4
25°	1662.0	1659.5	1662.0	1664.5	1662.0	1659.5	1662.0	1662.0	1657.0	1667.0	1667.0
27.5°	1589.0	1589.0	1594.0	1591.5	1591.5	1589.0	1594.0	1594.0	1591.5	1599.1	1606.6
30°	1503.4	1498.4	1503.4	1503.4	1505.9	1505.9	1508.4	1508.4	1508.4	1516.0	1521.0
32.5°	1392.6	1395.1	1402.6	1400.1	1397.6	1405.1	1405.1	1410.2	1412.8	1417.8	1420.2
35°	1274.2	1276.8	1276.8	1279.2	1284.2	1279.2	1291.9	1289.4	1291.9	1301.9	1307.0
37.5°	1148.2	1140.8	1153.4	1148.2	1150.9	1150.9	1155.9	1158.4	1165.9	1178.5	1178.5
40°	1012.4	1014.9	1019.9	1022.4	1024.9	1024.9	1024.9	1032.5	1035.0	1050.1	1047.6
42.5°	894.0	894.0	899.0	901.5	901.5	901.5	901.5	909.1	914.1	919.1	924.1
45°	790.8	783.1	788.2	788.2	793.2	790.8	795.8	800.8	803.2	810.9	808.4
47.5°	692.5	690.0	692.5	695.0	692.5	695.0	697.5	700.1	702.6	702.6	702.6
50°	606.9	606.9	609.4	611.9	611.9	611.9	611.9	614.5	614.5	619.5	614.5
52.5°	536.4	538.9	538.9	536.4	538.9	538.9	541.4	541.4	538.9	538.9	531.4
55°	476.0	473.4	476.0	473.4	476.0	476.0	473.4	473.4	470.9	468.4	465.9
57.5°	418.0	418.0	418.0	418.0	415.5	418.0	415.5	413.0	413.0	408.0	400.4
60°	367.6	367.6	367.6	367.6	367.6	365.1	367.6	365.1	360.1	355.1	345.0
62.5°	324.9	322.4	324.9	322.4	322.4	319.9	319.9	317.2	312.2	307.2	297.1
65°	287.1	289.6	287.1	287.1	284.5	282.0	282.0	279.5	272.0	266.9	256.9
67.5°	246.8	244.2	244.2	244.2	241.8	241.8	241.8	236.8	231.6	224.1	214.0
70°	201.5	201.5	201.5	199.0	199.0	196.4	196.4	193.9	188.9	183.9	171.2
72.5°	158.6	158.6	158.6	153.6	156.1	153.6	153.6	148.6	146.0	138.5	131.0
75°	120.9	120.9	118.4	118.4	115.9	113.4	113.4	110.8	108.2	103.2	95.8
77.5°	88.1	88.1	88.1	85.6	83.1	80.6	80.6	78.1	75.5	73.0	68.0
80°	60.4	60.4	60.4	60.4	57.9	55.4	55.4	52.9	52.9	50.4	45.4
82.5°	40.2	40.2	40.2	40.2	37.8	37.8	37.8	35.2	32.8	32.8	27.8
85°	27.8	27.8	25.1	25.1	25.1	25.1	22.6	22.6	20.1	17.6	17.6
87.5°	15.1	15.1	15.1	15.1	12.6	12.6	12.6	12.6	10.1	10.1	7.5
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: P252689

CATALOG NUMBER: LE\_6B30D010 EC6B30508035 6LBDW1H

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1780.4	1780.4	1780.4	1780.4	1780.4	1780.4	1780.4	1780.4	1780.4	1780.4	1780.4
2.5°	1793.0	1793.0	1790.5	1782.9	1785.4	1782.9	1785.4	1782.9	1775.4	1782.9	1775.4
5°	1803.0	1805.5	1800.5	1790.5	1793.0	1790.5	1790.5	1787.9	1780.4	1785.4	1780.4
7.5°	1813.1	1810.6	1808.1	1798.0	1800.5	1798.0	1798.0	1793.0	1785.4	1790.5	1782.9
10°	1818.1	1818.1	1813.1	1803.0	1803.0	1800.5	1803.0	1800.5	1790.5	1798.0	1793.0
12.5°	1818.1	1815.6	1815.6	1803.0	1805.5	1803.0	1805.5	1800.5	1793.0	1798.0	1795.5
15°	1810.6	1810.6	1808.1	1795.5	1798.0	1798.0	1800.5	1795.5	1787.9	1795.5	1790.5
17.5°	1795.5	1795.5	1793.0	1782.9	1787.9	1787.9	1790.5	1785.4	1777.9	1782.9	1782.9
20°	1765.2	1767.8	1767.8	1760.2	1765.2	1765.2	1767.8	1765.2	1762.8	1765.2	1760.2
22.5°	1730.0	1735.0	1735.0	1727.5	1732.5	1732.5	1740.1	1737.6	1732.5	1735.0	1732.5
25°	1677.1	1682.1	1687.2	1682.1	1687.2	1687.2	1694.8	1692.2	1687.2	1692.2	1684.6
27.5°	1616.8	1619.2	1624.2	1619.2	1626.8	1624.2	1631.8	1629.2	1621.8	1629.2	1626.8
30°	1531.1	1541.1	1548.8	1541.1	1548.8	1548.8	1553.8	1551.2	1548.8	1546.1	1546.1
32.5°	1435.4	1445.5	1445.5	1443.0	1448.0	1448.0	1450.5	1445.5	1443.0	1445.5	1448.0
35°	1317.0	1322.1	1327.1	1324.6	1327.1	1329.6	1327.1	1329.6	1322.1	1324.6	1324.6
37.5°	1188.6	1193.6	1193.6	1186.1	1191.1	1191.1	1186.1	1186.1	1181.0	1186.1	1176.0
40°	1052.6	1047.6	1050.1	1045.0	1040.0	1040.0	1037.5	1027.4	1022.4	1024.9	1027.4
42.5°	919.1	919.1	911.6	899.0	886.4	886.4	878.9	873.9	863.8	868.8	866.2
45°	805.9	793.2	783.1	763.0	755.5	750.4	737.9	725.2	720.2	722.8	720.2
47.5°	697.5	687.5	662.2	634.6	627.0	619.5	604.4	589.2	584.2	579.2	579.2
50°	606.9	589.2	561.5	531.4	518.8	506.1	486.0	470.9	460.9	463.4	463.4
52.5°	523.8	503.6	470.9	433.1	418.0	402.9	385.2	367.6	360.1	357.6	357.6
55°	450.8	428.1	395.4	352.5	340.0	322.4	299.6	279.5	269.5	266.9	272.0
57.5°	385.2	365.1	327.4	284.5	269.5	251.9	229.1	211.5	199.0	196.4	199.0
60°	332.4	304.8	272.0	231.6	211.5	196.4	171.2	156.1	143.5	138.5	141.0
62.5°	279.5	254.4	221.6	181.2	166.2	151.1	128.4	110.8	100.8	98.2	100.8
65°	239.2	214.0	183.9	148.6	133.5	118.4	98.2	80.6	73.0	70.5	73.0
67.5°	199.0	176.2	151.1	118.4	105.8	93.1	73.0	60.4	50.4	47.9	50.4
70°	161.1	141.0	115.9	93.1	80.6	70.5	55.4	42.8	35.2	32.8	35.2
72.5°	120.9	105.8	88.1	68.0	60.4	52.9	40.2	30.2	25.1	22.6	25.1
75°	88.1	75.5	63.0	47.9	42.8	37.8	27.8	20.1	17.6	15.1	17.6
77.5°	60.4	52.9	42.8	32.8	27.8	25.1	17.6	15.1	12.6	10.1	10.1
80°	40.2	35.2	27.8	22.6	20.1	17.6	12.6	10.1	7.5	7.5	7.5
82.5°	25.1	20.1	17.6	12.6	10.1	10.1	7.5	5.0	5.0	5.0	5.0
85°	15.1	12.6	10.1	7.5	5.0	5.0	2.5	2.5	2.5	2.5	2.5
87.5°	7.5	5.0	5.0	2.5	2.5	2.5	2.5	2.5	0.0	0.0	2.5
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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CATALOG NUMBER: LE\_6B30D010 EC6B30508035 6LBDW1H

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1780.4	1780.4	1780.4	1780.4	1780.4	1780.4	1780.4	1780.4	1780.4	1780.4	1780.4
2.5°	1780.4	1775.4	1775.4	1777.9	1780.4	1782.9	1777.9	1775.4	1775.4	1782.9	1777.9
5°	1780.4	1777.9	1777.9	1777.9	1782.9	1785.4	1780.4	1777.9	1780.4	1787.9	1785.4
7.5°	1787.9	1782.9	1785.4	1785.4	1787.9	1793.0	1787.9	1785.4	1787.9	1795.5	1790.5
10°	1793.0	1787.9	1790.5	1787.9	1795.5	1798.0	1793.0	1790.5	1793.0	1803.0	1800.5
12.5°	1795.5	1793.0	1793.0	1790.5	1798.0	1800.5	1795.5	1793.0	1795.5	1803.0	1800.5
15°	1790.5	1787.9	1787.9	1787.9	1793.0	1798.0	1790.5	1787.9	1787.9	1795.5	1793.0
17.5°	1780.4	1775.4	1775.4	1775.4	1777.9	1780.4	1772.9	1770.2	1767.8	1775.4	1772.9
20°	1762.8	1757.8	1752.6	1752.6	1755.2	1755.2	1750.1	1742.6	1742.6	1745.1	1740.1
22.5°	1730.0	1727.5	1722.5	1720.0	1725.0	1722.5	1712.4	1704.9	1702.4	1704.9	1699.8
25°	1684.6	1679.6	1677.1	1674.6	1677.1	1674.6	1664.5	1654.5	1654.5	1654.5	1646.9
27.5°	1621.8	1616.8	1614.1	1614.1	1616.8	1611.6	1601.6	1591.5	1586.5	1586.5	1578.9
30°	1541.1	1541.1	1538.6	1536.1	1533.6	1533.6	1518.5	1508.4	1503.4	1505.9	1500.9
32.5°	1443.0	1440.4	1437.9	1430.4	1432.9	1430.4	1417.8	1410.2	1402.6	1397.6	1395.1
35°	1317.0	1317.0	1314.5	1314.5	1314.5	1312.0	1299.4	1291.9	1286.8	1284.2	1276.8
37.5°	1178.5	1176.0	1173.5	1173.5	1173.5	1173.5	1165.9	1158.4	1158.4	1155.9	1150.9
40°	1022.4	1024.9	1027.4	1024.9	1032.5	1040.0	1030.0	1024.9	1022.4	1030.0	1019.9
42.5°	871.2	868.8	881.4	883.9	883.9	896.5	899.0	901.5	899.0	904.0	904.0
45°	725.2	722.8	735.4	740.4	753.0	768.0	775.6	788.2	793.2	798.2	793.2
47.5°	586.8	596.9	606.9	619.5	629.5	654.8	669.9	682.4	687.5	695.0	695.0
50°	470.9	481.0	498.6	508.6	521.2	551.5	576.6	594.2	604.4	611.9	609.4
52.5°	362.6	380.2	402.9	413.0	430.6	465.9	493.6	513.8	526.2	533.9	536.4
55°	279.5	294.6	317.2	332.4	350.0	387.8	423.0	445.8	458.4	468.4	473.4
57.5°	206.5	224.1	249.2	261.9	282.0	324.9	355.1	382.8	397.9	410.5	413.0
60°	151.1	168.8	191.4	206.5	226.6	269.5	304.8	329.9	347.5	357.6	362.6
62.5°	108.2	125.9	148.6	163.6	181.2	219.1	254.4	279.5	297.1	309.8	317.2
65°	78.1	95.8	118.4	131.0	146.0	181.2	214.0	239.2	256.9	272.0	277.0
67.5°	57.9	70.5	90.6	103.2	118.4	146.0	173.8	196.4	214.0	226.6	231.6
70°	42.8	52.9	70.5	78.1	88.1	113.4	136.0	156.1	171.2	181.2	186.4
72.5°	30.2	37.8	50.4	57.9	65.5	85.6	103.2	118.4	128.4	138.5	143.5
75°	20.1	25.1	35.2	40.2	45.4	60.4	73.0	85.6	93.1	100.8	103.2
77.5°	12.6	17.6	25.1	27.8	32.8	40.2	50.4	57.9	63.0	68.0	73.0
80°	7.5	10.1	15.1	17.6	20.1	27.8	32.8	37.8	42.8	47.9	50.4
82.5°	5.0	7.5	10.1	10.1	12.6	15.1	20.1	25.1	27.8	30.2	32.8
85°	2.5	2.5	5.0	5.0	7.5	7.5	10.1	12.6	15.1	17.6	20.1
87.5°	2.5	2.5	2.5	2.5	5.0	5.0	7.5	7.5	7.5	10.1	10.1
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: P252689

CATALOG NUMBER: LE\_6B30D010 EC6B30508035 6LBDW1H

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1780.4	1780.4	1780.4	1780.4	1780.4	1780.4	1780.4	1780.4
2.5°	1772.9	1780.4	1772.9	1777.9	1775.4	1775.4	1772.9	1775.4
5°	1780.4	1790.5	1780.4	1787.9	1782.9	1782.9	1782.9	1785.4
7.5°	1787.9	1798.0	1790.5	1798.0	1795.5	1793.0	1793.0	1798.0
10°	1795.5	1803.0	1798.0	1805.5	1803.0	1800.5	1800.5	1805.5
12.5°	1795.5	1805.5	1800.5	1808.1	1805.5	1803.0	1803.0	1805.5
15°	1787.9	1800.5	1793.0	1800.5	1798.0	1795.5	1795.5	1800.5
17.5°	1765.2	1775.4	1770.2	1775.4	1775.4	1772.9	1775.4	1777.9
20°	1735.0	1742.6	1737.6	1742.6	1742.6	1737.6	1740.1	1742.6
22.5°	1692.2	1699.8	1694.8	1699.8	1697.2	1694.8	1694.8	1692.2
25°	1639.4	1649.4	1641.9	1646.9	1641.9	1636.9	1636.9	1639.4
27.5°	1573.9	1581.5	1571.4	1576.4	1571.4	1566.4	1566.4	1563.8
30°	1488.2	1490.8	1483.2	1488.2	1483.2	1480.8	1475.6	1475.6
32.5°	1385.0	1387.5	1380.0	1380.0	1375.0	1375.0	1364.9	1372.4
35°	1264.1	1266.6	1264.1	1261.6	1254.1	1251.5	1249.0	1249.0
37.5°	1138.2	1138.2	1130.6	1128.1	1123.1	1118.1	1120.6	1113.0
40°	1009.8	1007.2	999.8	1002.2	999.8	992.1	989.6	987.1
42.5°	888.9	888.9	881.4	883.9	878.9	876.4	868.8	871.2
45°	783.1	783.1	775.6	775.6	773.1	765.5	768.0	763.0
47.5°	687.5	687.5	685.0	685.0	677.4	674.9	674.9	674.9
50°	604.4	604.4	604.4	604.4	601.9	599.4	596.9	599.4
52.5°	533.9	538.9	536.4	536.4	533.9	531.4	528.9	528.9
55°	470.9	473.4	473.4	476.0	473.4	470.9	473.4	470.9
57.5°	415.5	420.5	420.5	420.5	420.5	420.5	418.0	415.5
60°	367.6	370.1	370.1	372.8	372.8	372.8	370.1	370.1
62.5°	319.9	324.9	327.4	327.4	329.9	327.4	327.4	327.4
65°	282.0	287.1	289.6	287.1	289.6	289.6	287.1	287.1
67.5°	236.8	241.8	241.8	241.8	241.8	244.2	241.8	241.8
70°	191.4	196.4	193.9	196.4	196.4	196.4	196.4	196.4
72.5°	146.0	148.6	151.1	151.1	153.6	151.1	151.1	151.1
75°	105.8	110.8	110.8	110.8	110.8	113.4	113.4	113.4
77.5°	75.5	78.1	78.1	80.6	80.6	80.6	80.6	83.1
80°	52.9	52.9	55.4	55.4	57.9	57.9	57.9	57.9
82.5°	35.2	37.8	37.8	37.8	37.8	37.8	37.8	37.8
85°	20.1	22.6	22.6	22.6	22.6	25.1	25.1	25.1
87.5°	12.6	12.6	12.6	12.6	12.6	12.6	10.1	10.1
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)