

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: P252690

Luminaire Tested: **LE_6B30D010 EC6B30508040 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252690
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 EC6B30508040 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3572.5 lumens
Efficiency: N/A
Efficacy: 127.6 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

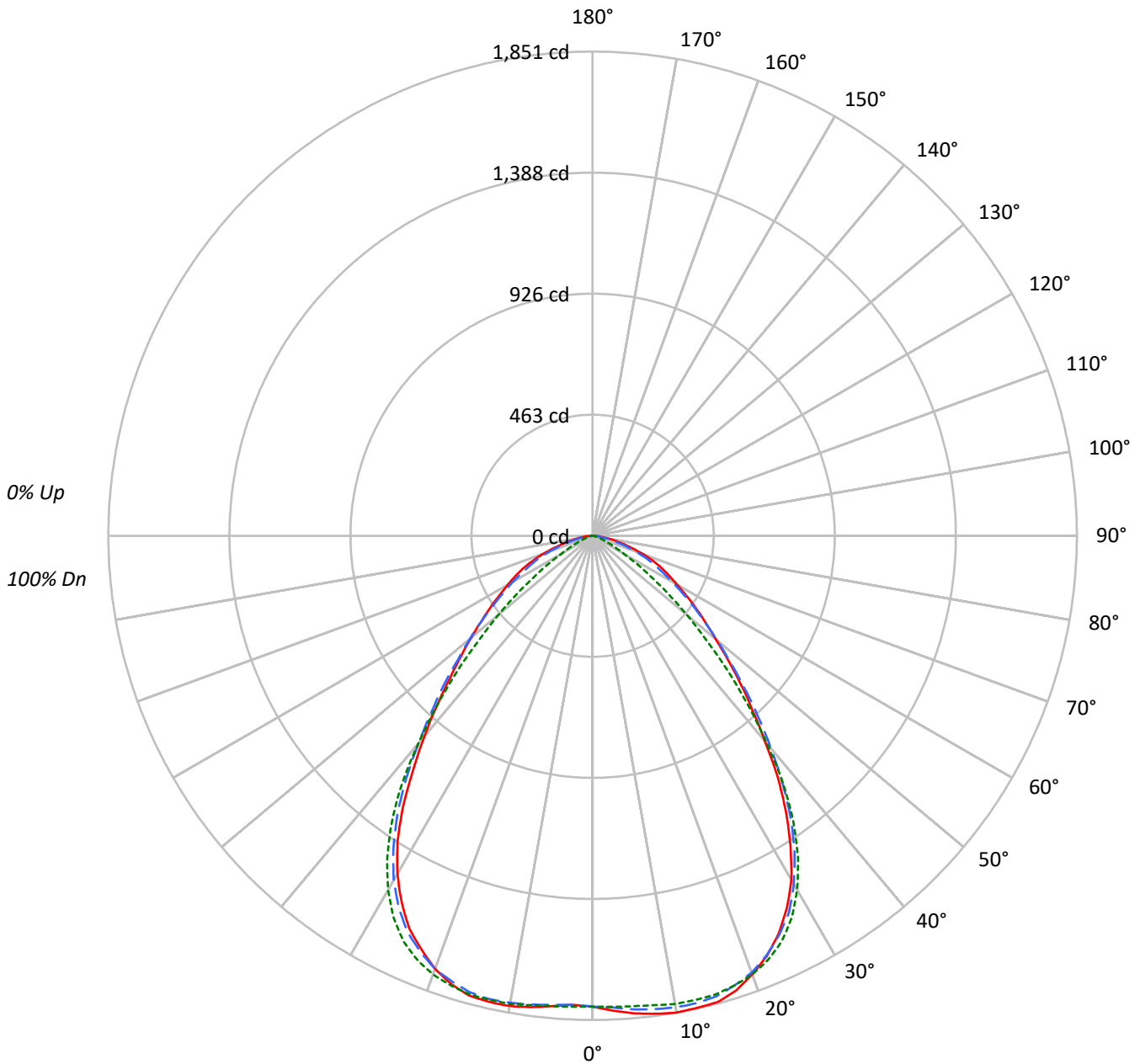
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	117427	117427	117427
5°	120043	118209	118209
10°	122617	120424	120927
15°	124669	122596	122940
20°	123901	123901	122318
25°	120949	123152	119308
30°	114499	117754	112390
35°	102598	106651	100575
40°	87158	88240	84995
45°	73756	67408	71173
50°	62268	47541	61497
55°	54722	30699	54153
60°	48513	18267	48826
65°	44799	10991	44799
70°	38837	6314	37883
75°	30803	3831	28862
80°	22956	2855	21979
85°	20959	1871	19088



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.3	4.9
10°-20°	512.9	14.4
20°-30°	771.3	21.6
30°-40°	811.0	22.7
40°-50°	605.8	17.0
50°-60°	377.2	10.6
60°-70°	214.5	6.0
70°-80°	88.3	2.5
80°-90°	18.3	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°	1457.5	40.8
0°-40°	2268.4	63.5
0°-60°	3251.4	91.0
0°-90°	3572.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3572.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1800	1800	1800	1800	1800	
5°	1833	1818	1805	1800	1805	175
15°	1846	1823	1815	1808	1820	519
25°	1680	1685	1711	1673	1657	769
35°	1288	1321	1339	1301	1263	799
45°	799	817	731	802	771	619
55°	481	471	270	463	476	433
65°	290	260	71	260	290	286
75°	122	97	15	94	114	133
85°	28	18	2	15	26	31
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°	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9
2.5°	1817.8	1815.1	1817.8	1812.6	1810.1	1810.1	1812.6	1807.5	1805.0	1807.5	1805.0
5°	1833.0	1827.9	1830.5	1827.9	1822.9	1822.9	1825.4	1817.8	1817.8	1820.2	1817.8
7.5°	1843.1	1843.1	1843.1	1838.1	1835.5	1833.0	1838.1	1830.5	1827.9	1827.9	1825.4
10°	1850.9	1848.2	1850.9	1845.8	1840.6	1838.1	1843.1	1838.1	1833.0	1838.1	1830.5
12.5°	1848.2	1848.2	1848.2	1845.8	1840.6	1838.1	1843.1	1835.5	1833.0	1835.5	1830.5
15°	1845.8	1838.1	1840.6	1838.1	1830.5	1830.5	1833.0	1825.4	1820.2	1827.9	1822.9
17.5°	1822.9	1817.8	1820.2	1815.1	1810.1	1807.5	1810.1	1807.5	1802.5	1807.5	1802.5
20°	1784.6	1784.6	1787.1	1782.1	1777.0	1774.5	1779.5	1774.5	1769.4	1777.0	1777.0
22.5°	1738.8	1738.8	1738.8	1736.2	1733.8	1733.8	1733.8	1731.1	1728.6	1733.8	1736.2
25°	1680.2	1677.8	1680.2	1682.8	1680.2	1677.8	1680.2	1680.2	1675.1	1685.4	1685.4
27.5°	1606.4	1606.4	1611.5	1609.0	1609.0	1606.4	1611.5	1611.5	1609.0	1616.6	1624.2
30°	1519.9	1514.8	1519.9	1519.9	1522.4	1522.4	1525.0	1525.0	1525.0	1532.6	1537.6
32.5°	1407.9	1410.4	1418.0	1415.5	1412.9	1420.6	1420.6	1425.6	1428.2	1433.2	1435.9
35°	1288.2	1290.8	1290.8	1293.2	1298.4	1293.2	1306.0	1303.5	1306.0	1316.2	1321.2
37.5°	1160.9	1153.2	1166.0	1160.9	1163.5	1163.5	1168.5	1171.1	1178.8	1191.5	1191.5
40°	1023.4	1026.0	1031.0	1033.6	1036.1	1036.1	1036.1	1043.8	1046.4	1061.6	1059.1
42.5°	903.8	903.8	908.9	911.4	911.4	911.4	911.4	919.0	924.1	929.2	934.4
45°	799.4	791.8	796.9	796.9	801.9	799.4	804.5	809.6	812.1	819.8	817.2
47.5°	700.1	697.5	700.1	702.6	700.1	702.6	705.2	707.8	710.2	710.2	710.2
50°	613.5	613.5	616.1	618.6	618.6	618.6	618.6	621.1	621.1	626.2	621.1
52.5°	542.2	544.8	544.8	542.2	544.8	544.8	547.4	547.4	544.8	544.8	537.1
55°	481.1	478.6	481.1	478.6	481.1	481.1	478.6	478.6	476.1	473.5	471.0
57.5°	422.6	422.6	422.6	422.6	420.0	422.6	420.0	417.5	417.5	412.4	404.8
60°	371.8	371.8	371.8	371.8	371.8	369.1	371.8	369.1	364.0	359.0	348.8
62.5°	328.4	325.9	328.4	325.9	325.9	323.4	323.4	320.8	315.6	310.6	300.4
65°	290.2	292.8	290.2	290.2	287.6	285.1	285.1	282.6	275.0	269.9	259.6
67.5°	249.5	247.0	247.0	247.0	244.4	244.4	244.4	239.2	234.2	226.6	216.4
70°	203.6	203.6	203.6	201.1	201.1	198.6	198.6	196.0	190.9	185.9	173.1
72.5°	160.4	160.4	160.4	155.2	157.9	155.2	155.2	150.2	147.6	140.0	132.4
75°	122.2	122.2	119.6	119.6	117.1	114.5	114.5	112.0	109.5	104.4	96.8
77.5°	89.1	89.1	89.1	86.5	84.0	81.5	81.5	78.9	76.4	73.9	68.8
80°	61.1	61.1	61.1	61.1	58.5	56.0	56.0	53.5	53.5	50.9	45.9
82.5°	40.8	40.8	40.8	40.8	38.1	38.1	38.1	35.6	33.1	33.1	28.0
85°	28.0	28.0	25.5	25.5	25.5	25.5	22.9	22.9	20.4	17.9	17.9
87.5°	15.2	15.2	15.2	15.2	12.8	12.8	12.8	12.8	10.1	10.1	7.6
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°	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9
2.5°	1812.6	1812.6	1810.1	1802.5	1805.0	1802.5	1805.0	1802.5	1794.8	1802.5	1794.8
5°	1822.9	1825.4	1820.2	1810.1	1812.6	1810.1	1810.1	1807.5	1799.9	1805.0	1799.9
7.5°	1833.0	1830.5	1827.9	1817.8	1820.2	1817.8	1817.8	1812.6	1805.0	1810.1	1802.5
10°	1838.1	1838.1	1833.0	1822.9	1822.9	1820.2	1822.9	1820.2	1810.1	1817.8	1812.6
12.5°	1838.1	1835.5	1835.5	1822.9	1825.4	1822.9	1825.4	1820.2	1812.6	1817.8	1815.1
15°	1830.5	1830.5	1827.9	1815.1	1817.8	1817.8	1820.2	1815.1	1807.5	1815.1	1810.1
17.5°	1815.1	1815.1	1812.6	1802.5	1807.5	1807.5	1810.1	1805.0	1797.4	1802.5	1802.5
20°	1784.6	1787.1	1787.1	1779.5	1784.6	1784.6	1787.1	1784.6	1782.1	1784.6	1779.5
22.5°	1749.0	1754.1	1754.1	1746.5	1751.5	1751.5	1759.1	1756.6	1751.5	1754.1	1751.5
25°	1695.5	1700.6	1705.8	1700.6	1705.8	1705.8	1713.4	1710.8	1705.8	1710.8	1703.1
27.5°	1634.4	1637.0	1642.0	1637.0	1644.6	1642.0	1649.8	1647.1	1639.5	1647.1	1644.6
30°	1547.9	1558.0	1565.6	1558.0	1565.6	1565.6	1570.8	1568.2	1565.6	1563.1	1563.1
32.5°	1451.1	1461.2	1461.2	1458.8	1463.9	1463.9	1466.4	1461.2	1458.8	1461.2	1463.9
35°	1331.5	1336.5	1341.6	1339.1	1341.6	1344.2	1341.6	1344.2	1336.5	1339.1	1339.1
37.5°	1201.6	1206.8	1206.8	1199.1	1204.1	1204.1	1199.1	1199.1	1194.0	1199.1	1188.9
40°	1064.1	1059.1	1061.6	1056.5	1051.4	1051.4	1048.9	1038.8	1033.6	1036.1	1038.8
42.5°	929.2	929.2	921.6	908.9	896.1	896.1	888.5	883.4	873.2	878.2	875.8
45°	814.6	801.9	791.8	771.4	763.8	758.6	745.9	733.2	728.1	730.6	728.1
47.5°	705.2	695.0	669.5	641.5	633.9	626.2	611.0	595.8	590.6	585.5	585.5
50°	613.5	595.8	567.8	537.1	524.5	511.8	491.4	476.1	465.9	468.4	468.4
52.5°	529.5	509.1	476.1	437.9	422.6	407.4	389.5	371.8	364.0	361.5	361.5
55°	455.8	432.8	399.8	356.4	343.6	325.9	303.0	282.6	272.4	269.9	275.0
57.5°	389.5	369.1	331.0	287.6	272.4	254.6	231.6	213.9	201.1	198.6	201.1
60°	336.0	308.0	275.0	234.2	213.9	198.6	173.1	157.9	145.1	140.0	142.6
62.5°	282.6	257.1	224.0	183.2	168.0	152.8	129.9	112.0	101.9	99.2	101.9
65°	241.9	216.4	185.9	150.2	134.9	119.6	99.2	81.5	73.9	71.2	73.9
67.5°	201.1	178.2	152.8	119.6	106.9	94.2	73.9	61.1	50.9	48.4	50.9
70°	162.9	142.6	117.1	94.2	81.5	71.2	56.0	43.2	35.6	33.1	35.6
72.5°	122.2	106.9	89.1	68.8	61.1	53.5	40.8	30.5	25.5	22.9	25.5
75°	89.1	76.4	63.6	48.4	43.2	38.1	28.0	20.4	17.9	15.2	17.9
77.5°	61.1	53.5	43.2	33.1	28.0	25.5	17.9	15.2	12.8	10.1	10.1
80°	40.8	35.6	28.0	22.9	20.4	17.9	12.8	10.1	7.6	7.6	7.6
82.5°	25.5	20.4	17.9	12.8	10.1	10.1	7.6	5.1	5.1	5.1	5.1
85°	15.2	12.8	10.1	7.6	5.1	5.1	2.5	2.5	2.5	2.5	2.5
87.5°	7.6	5.1	5.1	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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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9
2.5°	1799.9	1794.8	1794.8	1797.4	1799.9	1802.5	1797.4	1794.8	1794.8	1802.5	1797.4
5°	1799.9	1797.4	1797.4	1797.4	1802.5	1805.0	1799.9	1797.4	1799.9	1807.5	1805.0
7.5°	1807.5	1802.5	1805.0	1805.0	1807.5	1812.6	1807.5	1805.0	1807.5	1815.1	1810.1
10°	1812.6	1807.5	1810.1	1807.5	1815.1	1817.8	1812.6	1810.1	1812.6	1822.9	1820.2
12.5°	1815.1	1812.6	1812.6	1810.1	1817.8	1820.2	1815.1	1812.6	1815.1	1822.9	1820.2
15°	1810.1	1807.5	1807.5	1807.5	1812.6	1817.8	1810.1	1807.5	1807.5	1815.1	1812.6
17.5°	1799.9	1794.8	1794.8	1794.8	1797.4	1799.9	1792.2	1789.8	1787.1	1794.8	1792.2
20°	1782.1	1777.0	1771.9	1771.9	1774.5	1774.5	1769.4	1761.8	1761.8	1764.2	1759.1
22.5°	1749.0	1746.5	1741.4	1738.8	1743.9	1741.4	1731.1	1723.5	1721.0	1723.5	1718.4
25°	1703.1	1698.1	1695.5	1693.0	1695.5	1693.0	1682.8	1672.6	1672.6	1672.6	1665.0
27.5°	1639.5	1634.4	1631.9	1631.9	1634.4	1629.4	1619.1	1609.0	1603.9	1603.9	1596.2
30°	1558.0	1558.0	1555.5	1553.0	1550.4	1550.4	1535.1	1525.0	1519.9	1522.4	1517.4
32.5°	1458.8	1456.2	1453.6	1446.0	1448.6	1446.0	1433.2	1425.6	1418.0	1412.9	1410.4
35°	1331.5	1331.5	1328.9	1328.9	1328.9	1326.4	1313.6	1306.0	1300.9	1298.4	1290.8
37.5°	1191.5	1188.9	1186.4	1186.4	1186.4	1186.4	1178.8	1171.1	1171.1	1168.5	1163.5
40°	1033.6	1036.1	1038.8	1036.1	1043.8	1051.4	1041.2	1036.1	1033.6	1041.2	1031.0
42.5°	880.9	878.2	891.0	893.6	893.6	906.4	908.9	911.4	908.9	914.0	914.0
45°	733.2	730.6	743.4	748.5	761.2	776.5	784.1	796.9	801.9	807.0	801.9
47.5°	593.1	603.4	613.5	626.2	636.5	661.9	677.2	689.9	695.0	702.6	702.6
50°	476.1	486.2	504.1	514.2	527.0	557.5	583.0	600.9	611.0	618.6	616.1
52.5°	366.6	384.4	407.4	417.5	435.4	471.0	499.0	519.4	532.1	539.8	542.2
55°	282.6	297.9	320.8	336.0	353.9	392.0	427.8	450.6	463.4	473.5	478.6
57.5°	208.8	226.6	252.0	264.8	285.1	328.4	359.0	387.0	402.2	415.0	417.5
60°	152.8	170.6	193.5	208.8	229.1	272.4	308.0	333.5	351.4	361.5	366.6
62.5°	109.5	127.2	150.2	165.5	183.2	221.5	257.1	282.6	300.4	313.1	320.8
65°	78.9	96.8	119.6	132.4	147.6	183.2	216.4	241.9	259.6	275.0	280.0
67.5°	58.5	71.2	91.6	104.4	119.6	147.6	175.6	198.6	216.4	229.1	234.2
70°	43.2	53.5	71.2	78.9	89.1	114.5	137.5	157.9	173.1	183.2	188.4
72.5°	30.5	38.1	50.9	58.5	66.2	86.5	104.4	119.6	129.9	140.0	145.1
75°	20.4	25.5	35.6	40.8	45.9	61.1	73.9	86.5	94.2	101.9	104.4
77.5°	12.8	17.9	25.5	28.0	33.1	40.8	50.9	58.5	63.6	68.8	73.9
80°	7.6	10.1	15.2	17.9	20.4	28.0	33.1	38.1	43.2	48.4	50.9
82.5°	5.1	7.6	10.1	10.1	12.8	15.2	20.4	25.5	28.0	30.5	33.1
85°	2.5	2.5	5.1	5.1	7.6	7.6	10.1	12.8	15.2	17.9	20.4
87.5°	2.5	2.5	2.5	2.5	5.1	5.1	7.6	7.6	7.6	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: P252690

CATALOG NUMBER: LE_6B30D010 EC6B30508040 6LBDW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9	1799.9
2.5°	1792.2	1799.9	1792.2	1797.4	1794.8	1794.8	1792.2	1794.8
5°	1799.9	1810.1	1799.9	1807.5	1802.5	1802.5	1802.5	1805.0
7.5°	1807.5	1817.8	1810.1	1817.8	1815.1	1812.6	1812.6	1817.8
10°	1815.1	1822.9	1817.8	1825.4	1822.9	1820.2	1820.2	1825.4
12.5°	1815.1	1825.4	1820.2	1827.9	1825.4	1822.9	1822.9	1825.4
15°	1807.5	1820.2	1812.6	1820.2	1817.8	1815.1	1815.1	1820.2
17.5°	1784.6	1794.8	1789.8	1794.8	1794.8	1792.2	1794.8	1797.4
20°	1754.1	1761.8	1756.6	1761.8	1761.8	1756.6	1759.1	1761.8
22.5°	1710.8	1718.4	1713.4	1718.4	1715.9	1713.4	1713.4	1710.8
25°	1657.4	1667.5	1659.9	1665.0	1659.9	1654.8	1654.8	1657.4
27.5°	1591.1	1598.8	1588.6	1593.8	1588.6	1583.5	1583.5	1581.0
30°	1504.6	1507.1	1499.5	1504.6	1499.5	1497.0	1491.9	1491.9
32.5°	1400.2	1402.8	1395.1	1395.1	1390.0	1390.0	1379.9	1387.5
35°	1278.0	1280.5	1278.0	1275.5	1267.9	1265.2	1262.8	1262.8
37.5°	1150.8	1150.8	1143.1	1140.5	1135.5	1130.4	1132.9	1125.2
40°	1020.9	1018.4	1010.8	1013.2	1010.8	1003.0	1000.5	998.0
42.5°	898.6	898.6	891.0	893.6	888.5	886.0	878.2	880.9
45°	791.8	791.8	784.1	784.1	781.6	773.9	776.5	771.4
47.5°	695.0	695.0	692.5	692.5	684.9	682.2	682.2	682.2
50°	611.0	611.0	611.0	611.0	608.5	605.9	603.4	605.9
52.5°	539.8	544.8	542.2	542.2	539.8	537.1	534.6	534.6
55°	476.1	478.6	478.6	481.1	478.6	476.1	478.6	476.1
57.5°	420.0	425.1	425.1	425.1	425.1	425.1	422.6	420.0
60°	371.8	374.2	374.2	376.8	376.8	376.8	374.2	374.2
62.5°	323.4	328.4	331.0	331.0	333.5	331.0	331.0	331.0
65°	285.1	290.2	292.8	290.2	292.8	292.8	290.2	290.2
67.5°	239.2	244.4	244.4	244.4	244.4	247.0	244.4	244.4
70°	193.5	198.6	196.0	198.6	198.6	198.6	198.6	198.6
72.5°	147.6	150.2	152.8	152.8	155.2	152.8	152.8	152.8
75°	106.9	112.0	112.0	112.0	112.0	114.5	114.5	114.5
77.5°	76.4	78.9	78.9	81.5	81.5	81.5	81.5	84.0
80°	53.5	53.5	56.0	56.0	58.5	58.5	58.5	58.5
82.5°	35.6	38.1	38.1	38.1	38.1	38.1	38.1	38.1
85°	20.4	22.9	22.9	22.9	22.9	25.5	25.5	25.5
87.5°	12.8	12.8	12.8	12.8	12.8	12.8	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)