

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: P252498

Luminaire Tested: **LE_6B40D010 EC6B30509027 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252498
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-6)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B40D010 EC6B30509027 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS 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: 3642.5 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

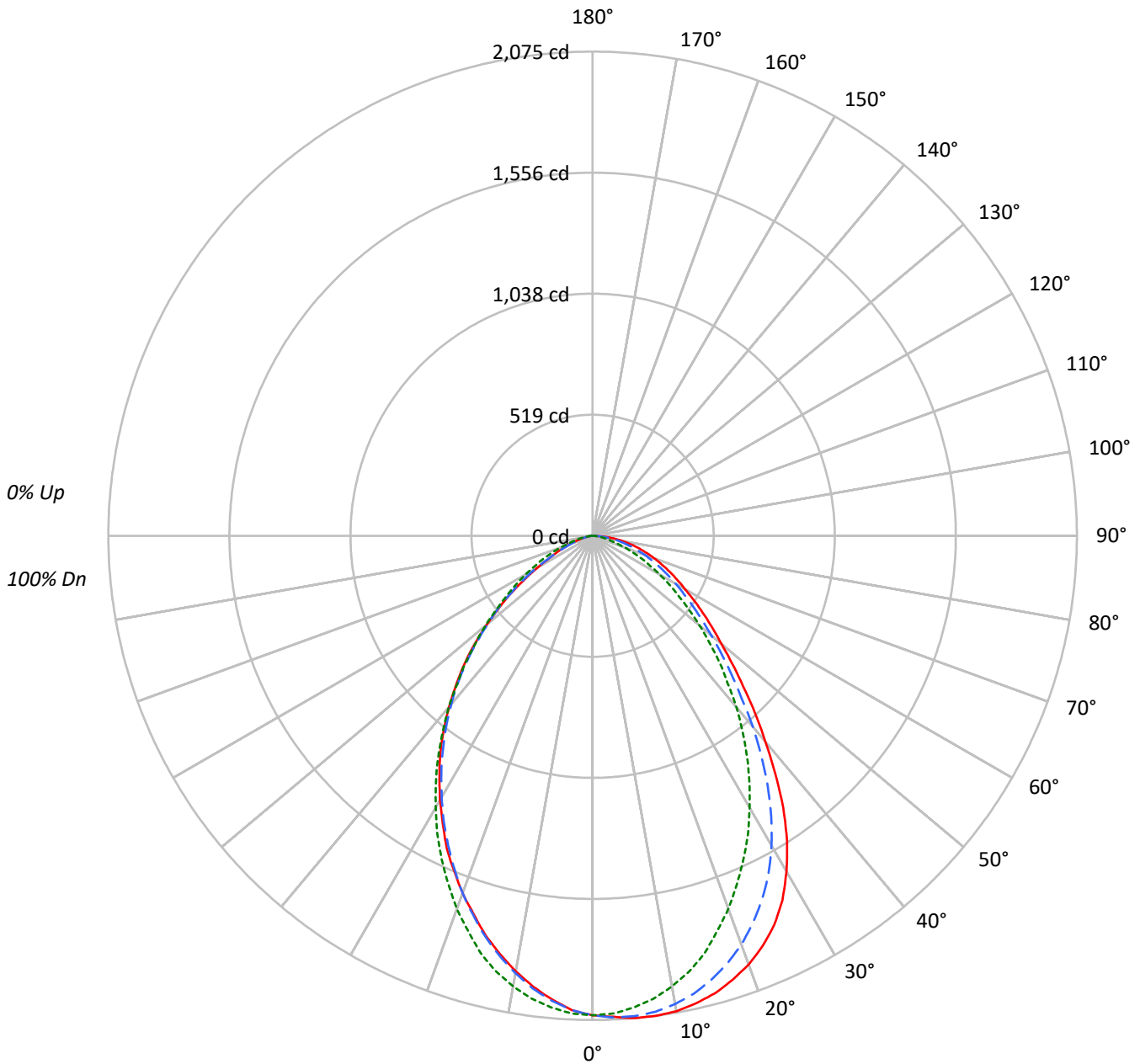
Input Watts (W): 43
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				100															
1	111	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88				88															
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77				77															
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67				67															
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59				59															
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53				53															
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47				47															
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43				43															
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39				39															
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35				35															
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33				33															

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	134063	134063	134063
5°	135885	132892	130652
10°	137072	129897	125545
15°	137056	125101	119712
20°	135731	118096	113139
25°	132517	110123	106423
30°	125129	101263	98468
35°	113421	91830	90699
40°	97949	81674	81427
45°	84007	71099	71615
50°	72996	60837	59964
55°	65573	51298	48045
60°	59578	43202	35373
65°	55960	35675	25996
70°	53372	27754	19056
75°	51069	20140	12956
80°	48241	13939	8604
85°	42742	8533	4342



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.2	5.3
10°-20°	526.5	14.5
20°-30°	730.9	20.1
30°-40°	757.0	20.8
40°-50°	622.1	17.1
50°-60°	427.6	11.7
60°-70°	245.8	6.7
70°-80°	113.0	3.1
80°-90°	27.5	0.8
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°	1449.5	39.8
0°-40°	2206.6	60.6
0°-60°	3256.2	89.4
0°-90°	3642.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3642.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2055	2055	2055	2055	2055	
5°	2075	2066	2029	2001	1995	198
15°	2029	1969	1852	1778	1772	572
25°	1841	1718	1530	1464	1478	842
35°	1424	1307	1153	1119	1139	883
45°	910	842	771	762	776	709
55°	576	522	451	425	422	519
65°	362	317	231	163	168	361
75°	203	160	80	51	51	214
85°	57	40	11	6	6	64
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°	2054.9	2054.9	2054.9	2054.9	2054.9	2054.9	2054.9	2054.9	2054.9	2054.9	2054.9
2.5°	2063.5	2080.6	2069.1	2066.4	2072.0	2072.0	2072.0	2063.5	2069.1	2060.6	2066.4
5°	2074.9	2089.1	2077.8	2072.0	2077.8	2080.6	2072.0	2066.4	2074.9	2063.5	2066.4
7.5°	2074.9	2089.1	2077.8	2074.9	2077.8	2077.8	2074.9	2063.5	2069.1	2057.8	2057.8
10°	2069.1	2080.6	2069.1	2063.5	2066.4	2063.5	2063.5	2049.2	2052.0	2037.8	2037.8
12.5°	2052.0	2066.4	2052.0	2046.4	2046.4	2046.4	2037.8	2026.4	2029.2	2012.1	2009.2
15°	2029.2	2040.6	2026.4	2020.6	2020.6	2017.8	2012.1	1995.0	1995.0	1977.9	1969.2
17.5°	1995.0	2006.4	1995.0	1986.4	1983.5	1977.9	1972.1	1955.0	1949.2	1929.4	1920.8
20°	1955.0	1963.6	1952.1	1943.6	1937.9	1932.1	1920.8	1903.6	1897.9	1878.0	1863.8
22.5°	1903.6	1915.0	1897.9	1889.4	1883.6	1875.1	1863.8	1846.6	1838.0	1812.4	1795.2
25°	1840.9	1846.6	1832.2	1823.8	1812.4	1806.6	1798.0	1775.2	1766.6	1738.1	1718.1
27.5°	1761.0	1766.6	1749.5	1743.9	1729.5	1723.9	1712.4	1692.5	1681.0	1652.5	1632.5
30°	1661.0	1666.8	1655.4	1646.8	1635.4	1624.0	1615.4	1595.4	1578.2	1549.8	1532.6
32.5°	1549.8	1558.2	1546.9	1535.5	1515.5	1518.4	1504.1	1484.1	1469.9	1444.1	1424.1
35°	1424.1	1429.9	1415.6	1412.8	1401.4	1389.9	1375.6	1361.4	1352.9	1324.2	1307.1
37.5°	1284.4	1298.6	1284.4	1272.9	1267.2	1258.6	1250.1	1230.1	1224.4	1207.2	1184.4
40°	1150.1	1158.8	1150.1	1138.8	1130.2	1130.2	1118.8	1107.4	1093.1	1076.0	1067.4
42.5°	1030.2	1024.6	1021.8	1016.0	1004.6	1001.8	998.9	984.6	976.1	959.0	944.6
45°	910.5	913.2	907.6	904.8	896.1	890.5	884.8	873.4	870.5	853.4	842.0
47.5°	810.5	807.8	802.0	802.0	796.2	790.6	784.9	776.2	773.5	759.1	747.8
50°	719.2	722.1	719.2	716.4	707.8	705.0	699.2	693.5	687.9	673.5	662.1
52.5°	645.0	642.1	639.2	639.2	630.8	627.9	622.1	616.5	610.8	596.5	587.9
55°	576.5	576.5	573.6	570.8	562.2	559.4	556.5	550.9	542.2	530.9	522.2
57.5°	513.8	513.8	510.9	508.0	502.2	502.2	496.6	490.9	485.1	473.8	462.4
60°	456.6	459.5	456.6	453.8	448.1	448.1	445.2	436.6	433.9	419.5	411.0
62.5°	408.1	408.1	408.1	405.2	402.4	396.8	396.8	388.1	382.5	373.9	362.5
65°	362.5	362.5	362.5	359.6	353.9	351.0	348.2	342.5	336.8	328.2	316.8
67.5°	319.6	319.6	319.6	316.8	311.1	308.2	305.4	302.5	294.0	285.4	274.0
70°	279.8	279.8	276.9	274.0	271.1	268.2	265.4	259.8	254.0	242.6	234.0
72.5°	239.8	239.8	239.8	234.0	231.1	231.1	225.5	222.6	216.9	205.5	196.9
75°	202.6	199.8	199.8	196.9	194.1	191.2	188.4	185.5	177.0	171.2	159.9
77.5°	165.5	165.5	162.6	159.9	159.9	157.0	154.1	148.4	145.5	137.0	128.4
80°	128.4	128.4	128.4	128.4	125.6	122.8	122.8	117.0	114.1	105.6	99.9
82.5°	97.0	94.1	94.1	94.1	91.4	88.5	88.5	85.6	82.8	77.0	71.4
85°	57.1	54.2	54.2	54.2	51.4	51.4	48.5	48.5	45.6	40.0	40.0
87.5°	17.1	17.1	20.0	20.0	17.1	17.1	17.1	17.1	17.1	14.2	14.2
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°	2054.9	2054.9	2054.9	2054.9	2054.9	2054.9	2054.9	2054.9	2054.9	2054.9	2054.9
2.5°	2060.6	2069.1	2057.8	2054.9	2066.4	2060.6	2057.8	2052.0	2054.9	2049.2	2040.6
5°	2057.8	2069.1	2054.9	2046.4	2060.6	2052.0	2046.4	2040.6	2040.6	2029.2	2023.5
7.5°	2049.2	2054.9	2040.6	2032.1	2040.6	2032.1	2026.4	2017.8	2015.0	2000.6	1992.1
10°	2026.4	2032.1	2015.0	2003.5	2012.1	2000.6	1992.1	1983.5	1977.9	1960.8	1949.2
12.5°	1995.0	1997.9	1977.9	1963.6	1969.2	1960.8	1946.5	1935.0	1929.4	1912.2	1897.9
15°	1952.1	1955.0	1932.1	1912.2	1917.9	1906.5	1889.4	1878.0	1869.4	1852.2	1832.2
17.5°	1900.8	1897.9	1872.2	1852.2	1855.1	1840.9	1823.8	1806.6	1795.2	1775.2	1761.0
20°	1843.8	1835.1	1806.6	1783.8	1786.6	1769.5	1749.5	1732.4	1718.1	1701.0	1681.0
22.5°	1772.4	1761.0	1735.2	1706.8	1709.6	1695.2	1666.8	1652.5	1638.2	1615.4	1598.2
25°	1695.2	1678.1	1652.5	1624.0	1624.0	1606.9	1584.0	1566.9	1552.6	1529.8	1509.8
27.5°	1604.0	1595.4	1561.1	1538.4	1535.5	1518.4	1498.4	1478.4	1461.2	1441.2	1421.2
30°	1504.1	1489.8	1464.1	1438.4	1432.8	1418.5	1398.5	1375.6	1364.2	1344.2	1327.1
32.5°	1398.5	1384.2	1355.6	1330.0	1327.1	1315.8	1298.6	1275.8	1264.4	1250.1	1238.6
35°	1278.6	1272.9	1244.4	1224.4	1224.4	1213.0	1195.9	1175.9	1167.2	1153.0	1138.8
37.5°	1164.5	1155.9	1130.2	1113.1	1113.1	1098.8	1081.6	1073.1	1064.5	1053.1	1044.6
40°	1044.6	1038.9	1018.9	1001.8	1004.6	993.2	981.8	970.4	964.6	959.0	950.4
42.5°	933.2	927.6	913.2	899.0	899.0	890.5	879.0	870.5	864.8	856.2	853.4
45°	833.4	824.9	813.4	799.1	799.1	790.6	784.9	779.1	776.2	770.6	762.0
47.5°	736.4	730.6	719.2	705.0	705.0	705.0	693.5	685.0	685.0	679.2	676.4
50°	653.6	645.0	636.5	625.0	625.0	619.4	610.8	602.2	602.2	599.4	593.6
52.5°	576.5	570.8	559.4	548.0	548.0	542.2	533.8	530.9	528.0	519.4	516.6
55°	510.9	505.1	496.6	482.4	479.5	476.6	468.1	462.4	459.5	451.0	451.0
57.5°	451.0	445.2	431.0	422.4	419.5	413.9	405.2	399.6	396.8	391.0	385.2
60°	399.6	391.0	379.6	368.1	365.4	359.6	351.0	345.4	342.5	331.1	325.4
62.5°	351.0	342.5	331.1	319.6	316.8	311.1	299.6	294.0	288.2	276.9	271.1
65°	305.4	296.9	285.4	274.0	268.2	265.4	254.0	245.5	239.8	231.1	219.8
67.5°	262.6	254.0	242.6	228.4	228.4	219.8	211.2	202.6	194.1	185.5	177.0
70°	222.6	214.0	202.6	191.2	188.4	182.6	174.1	162.6	157.0	145.5	137.0
72.5°	185.5	177.0	165.5	154.1	151.2	145.5	137.0	125.6	117.0	108.5	99.9
75°	151.2	142.8	131.2	122.8	119.9	114.1	105.6	94.1	85.6	79.9	71.4
77.5°	119.9	111.2	102.8	94.1	91.4	85.6	77.0	71.4	62.8	57.1	48.5
80°	91.4	85.6	77.0	71.4	68.5	62.8	57.1	48.5	42.8	37.1	34.2
82.5°	65.6	59.9	54.2	45.6	45.6	40.0	37.1	31.4	25.6	22.9	20.0
85°	37.1	31.4	28.5	25.6	22.9	22.9	20.0	17.1	14.2	11.4	11.4
87.5°	11.4	11.4	8.5	8.5	8.5	8.5	5.8	5.8	5.8	5.8	5.8
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°	2054.9	2054.9	2054.9	2054.9	2054.9	2054.9	2054.9	2054.9	2054.9	2054.9	2054.9
2.5°	2040.6	2043.5	2037.8	2043.5	2037.8	2040.6	2034.9	2040.6	2034.9	2040.6	2029.2
5°	2020.6	2020.6	2012.1	2017.8	2012.1	2015.0	2003.5	2006.4	2000.6	2006.4	1995.0
7.5°	1986.4	1989.2	1975.0	1980.8	1972.1	1972.1	1963.6	1966.4	1957.9	1960.8	1952.1
10°	1946.5	1943.6	1929.4	1935.0	1923.6	1923.6	1915.0	1915.0	1903.6	1906.5	1895.1
12.5°	1889.4	1886.5	1869.4	1875.1	1863.8	1863.8	1855.1	1855.1	1843.8	1849.4	1838.0
15°	1823.8	1820.9	1803.8	1806.6	1795.2	1795.2	1783.8	1786.6	1778.1	1783.8	1772.4
17.5°	1749.5	1746.6	1729.5	1732.4	1718.1	1721.0	1712.4	1709.6	1703.9	1706.8	1698.1
20°	1672.5	1666.8	1649.6	1652.5	1646.8	1638.2	1632.5	1635.4	1629.6	1635.4	1626.8
22.5°	1592.5	1581.1	1566.9	1566.9	1561.1	1561.1	1552.6	1558.2	1546.9	1555.5	1549.8
25°	1501.2	1492.6	1481.2	1487.0	1475.5	1475.5	1467.0	1469.9	1464.1	1469.9	1464.1
27.5°	1412.8	1407.0	1389.9	1395.6	1387.1	1389.9	1381.4	1384.2	1381.4	1387.1	1381.4
30°	1318.6	1315.8	1304.2	1304.2	1301.5	1298.6	1295.8	1295.8	1292.9	1301.5	1295.8
32.5°	1230.1	1221.5	1210.1	1218.6	1204.4	1213.0	1207.2	1213.0	1207.2	1213.0	1210.1
35°	1138.8	1135.9	1121.6	1124.5	1121.6	1121.6	1118.8	1118.8	1118.8	1127.4	1127.4
37.5°	1041.8	1038.9	1030.2	1033.1	1027.5	1024.6	1024.6	1030.2	1030.2	1036.0	1036.0
40°	947.5	950.4	941.9	941.9	939.0	939.0	939.0	944.6	941.9	947.5	944.6
42.5°	853.4	853.4	844.8	847.6	844.8	847.6	847.6	853.4	853.4	856.2	853.4
45°	764.9	764.9	762.0	764.9	759.1	762.0	759.1	764.9	762.0	764.9	764.9
47.5°	676.4	676.4	676.4	673.5	673.5	673.5	673.5	673.5	670.8	676.4	673.5
50°	593.6	596.5	593.6	593.6	590.8	593.6	590.8	590.8	585.1	587.9	587.9
52.5°	519.4	519.4	513.8	513.8	513.8	510.9	510.9	510.9	508.0	508.0	502.2
55°	448.1	448.1	442.4	442.4	439.5	436.6	433.9	433.9	425.2	425.2	416.8
57.5°	382.5	379.6	371.0	371.0	365.4	362.5	359.6	356.8	351.0	345.4	342.5
60°	322.5	316.8	311.1	308.2	302.5	296.9	291.1	285.4	279.8	276.9	274.0
62.5°	265.4	256.9	251.1	248.2	242.6	234.0	228.4	222.6	216.9	214.0	208.4
65°	214.0	205.5	196.9	194.1	188.4	182.6	174.1	168.4	162.6	159.9	159.9
67.5°	168.4	159.9	148.4	148.4	142.8	137.0	131.2	125.6	122.8	125.6	125.6
70°	125.6	119.9	111.2	108.5	102.8	97.0	94.1	94.1	94.1	97.0	94.1
72.5°	94.1	85.6	79.9	77.0	74.2	71.4	71.4	71.4	68.5	71.4	71.4
75°	65.6	59.9	54.2	54.2	51.4	51.4	51.4	51.4	51.4	51.4	51.4
77.5°	45.6	40.0	37.1	37.1	37.1	34.2	34.2	34.2	34.2	34.2	34.2
80°	28.5	28.5	25.6	25.6	22.9	22.9	22.9	22.9	22.9	22.9	22.9
82.5°	17.1	17.1	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
85°	8.5	8.5	8.5	8.5	8.5	5.8	5.8	5.8	5.8	5.8	5.8
87.5°	2.9	2.9	2.9	2.9	2.9	5.8	5.8	5.8	5.8	5.8	5.8
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: P252498

CATALOG NUMBER: LE_6B40D010 EC6B30509027 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2054.9	2054.9	2054.9	2054.9	2054.9	2054.9	2054.9	2054.9
2.5°	2029.2	2037.8	2026.4	2034.9	2032.1	2029.2	2023.5	2034.9
5°	1995.0	1997.9	1986.4	1997.9	1995.0	1989.2	1983.5	1995.0
7.5°	1946.5	1955.0	1940.8	1952.1	1949.2	1943.6	1937.9	1949.2
10°	1892.2	1900.8	1889.4	1897.9	1897.9	1892.2	1883.6	1895.1
12.5°	1832.2	1838.0	1826.6	1838.0	1835.1	1829.5	1826.6	1835.1
15°	1766.6	1775.2	1763.8	1772.4	1769.5	1766.6	1763.8	1772.4
17.5°	1695.2	1703.9	1695.2	1703.9	1703.9	1695.2	1692.5	1698.1
20°	1624.0	1629.6	1621.1	1629.6	1626.8	1626.8	1621.1	1629.6
22.5°	1544.0	1552.6	1546.9	1552.6	1549.8	1549.8	1546.9	1552.6
25°	1464.1	1472.6	1464.1	1472.6	1469.9	1469.9	1464.1	1478.4
27.5°	1384.2	1389.9	1381.4	1392.8	1389.9	1384.2	1387.1	1389.9
30°	1298.6	1304.2	1298.6	1307.1	1307.1	1307.1	1301.5	1307.1
32.5°	1213.0	1221.5	1213.0	1221.5	1218.6	1218.6	1215.9	1221.5
35°	1127.4	1130.2	1124.5	1133.0	1133.0	1135.9	1130.2	1138.8
37.5°	1038.9	1041.8	1038.9	1041.8	1047.4	1038.9	1044.6	1047.4
40°	947.5	953.2	950.4	953.2	953.2	956.1	953.2	956.1
42.5°	856.2	861.9	856.2	864.8	861.9	861.9	864.8	864.8
45°	762.0	770.6	764.9	770.6	773.5	770.6	770.6	776.2
47.5°	673.5	679.2	676.4	679.2	679.2	679.2	679.2	685.0
50°	585.1	587.9	587.9	590.8	590.8	593.6	587.9	590.8
52.5°	496.6	502.2	502.2	502.2	499.5	502.2	502.2	502.2
55°	416.8	419.5	413.9	419.5	419.5	416.8	416.8	422.4
57.5°	339.6	339.6	339.6	339.6	339.6	336.8	339.6	339.6
60°	268.2	271.1	268.2	268.2	268.2	268.2	265.4	271.1
62.5°	208.4	208.4	205.5	208.4	208.4	208.4	211.2	211.2
65°	162.6	165.5	162.6	165.5	165.5	165.5	165.5	168.4
67.5°	128.4	128.4	128.4	128.4	128.4	128.4	128.4	128.4
70°	97.0	97.0	97.0	99.9	97.0	97.0	97.0	99.9
72.5°	71.4	71.4	71.4	71.4	71.4	71.4	74.2	74.2
75°	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
77.5°	34.2	34.2	34.2	37.1	34.2	37.1	34.2	34.2
80°	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9
82.5°	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
85°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
87.5°	5.8	5.8	5.8	5.8	2.9	2.9	2.9	2.9
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)