

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: P252504

Luminaire Tested: **LE_6B40D010 EC6B30509730 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252504
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 EC6B30509730 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3310.0 lumens
Efficiency: N/A
Efficacy: 77.0 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

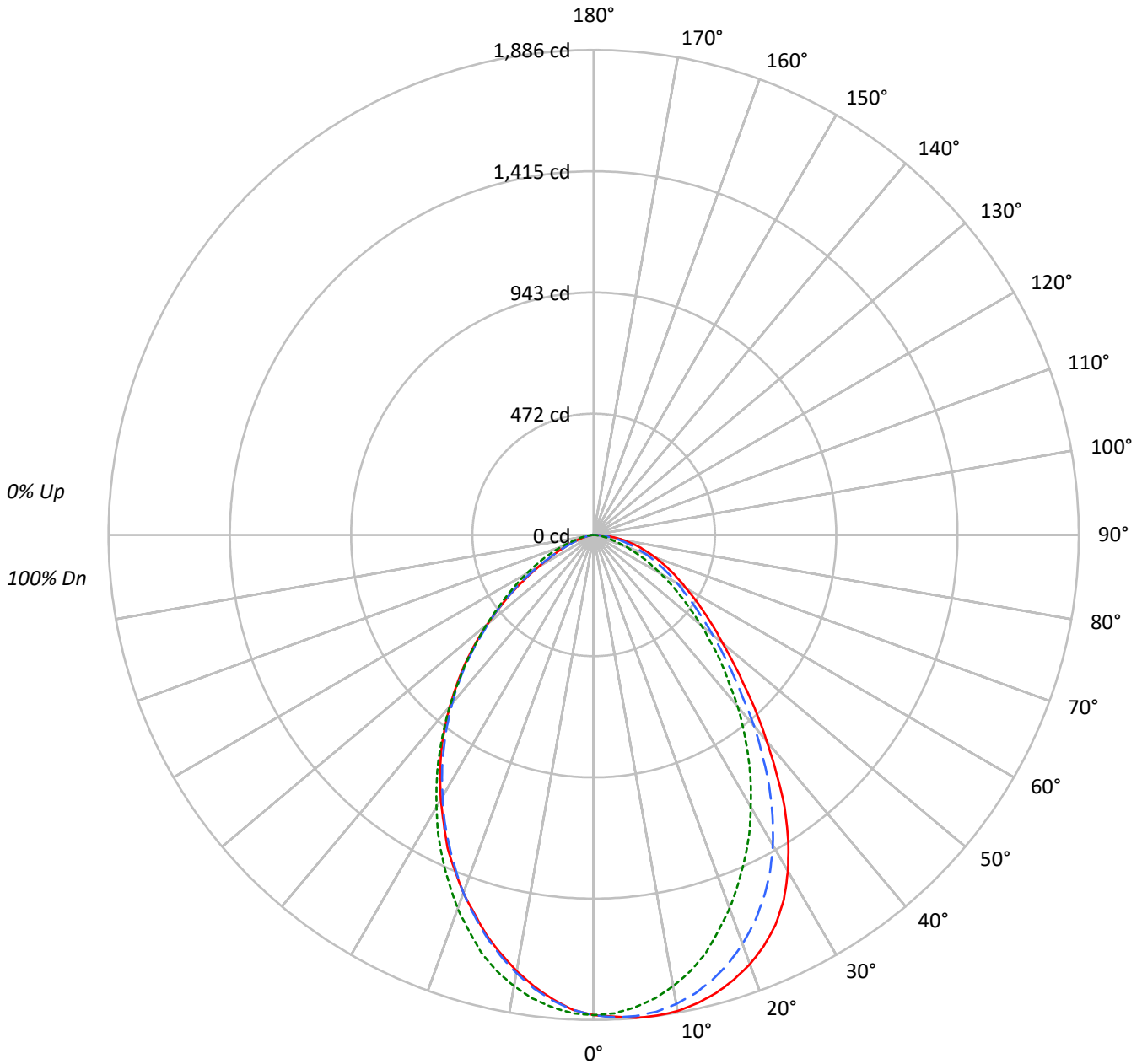
Input Watts (W): 43
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252504

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	121830	121830	121830
5°	123481	120763	118727
10°	124558	118039	114084
15°	124548	113687	108783
20°	123338	107321	102815
25°	120424	100066	96712
30°	113708	92020	89489
35°	103067	83451	82416
40°	89007	74213	74000
45°	76339	64603	65083
50°	66338	55275	54493
55°	59590	46612	43666
60°	54150	39262	32151
65°	50850	32434	23619
70°	48470	25217	17320
75°	46406	18300	11746
80°	43882	12699	7815
85°	38850	7785	3818



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.7	5.3
10°-20°	478.4	14.5
20°-30°	664.2	20.1
30°-40°	687.9	20.8
40°-50°	565.3	17.1
50°-60°	388.5	11.7
60°-70°	223.4	6.7
70°-80°	102.7	3.1
80°-90°	25.0	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°	1317.2	39.8
0°-40°	2005.1	60.6
0°-60°	2959.0	89.4
0°-90°	3310.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3310.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1867	1867	1867	1867	1867	
5°	1886	1878	1844	1818	1813	180
15°	1844	1790	1683	1616	1611	519
25°	1673	1561	1390	1330	1344	765
35°	1294	1188	1048	1017	1035	803
45°	827	765	700	692	705	644
55°	524	475	410	386	384	471
65°	329	288	210	148	153	328
75°	184	145	73	47	47	195
85°	52	36	10	5	5	58
90°	0	0	0	0	0	



TEST NUMBER: P252504

CATALOG NUMBER: LE_6B40D010 EC6B30509730 6LBLWW1H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1867.4	1867.4	1867.4	1867.4	1867.4	1867.4	1867.4	1867.4	1867.4	1867.4	1867.4
2.5°	1875.1	1890.6	1880.2	1877.8	1882.9	1882.9	1882.9	1875.1	1880.2	1872.5	1877.8
5°	1885.5	1898.5	1888.1	1882.9	1888.1	1890.6	1882.9	1877.8	1885.5	1875.1	1877.8
7.5°	1885.5	1898.5	1888.1	1885.5	1888.1	1888.1	1885.5	1875.1	1880.2	1869.9	1869.9
10°	1880.2	1890.6	1880.2	1875.1	1877.8	1875.1	1875.1	1862.1	1864.8	1851.8	1851.8
12.5°	1864.8	1877.8	1864.8	1859.5	1859.5	1859.5	1851.8	1841.4	1844.0	1828.4	1825.9
15°	1844.0	1854.4	1841.4	1836.2	1836.2	1833.6	1828.4	1812.9	1812.9	1797.2	1789.5
17.5°	1812.9	1823.2	1812.9	1805.1	1802.5	1797.2	1792.1	1776.5	1771.4	1753.2	1745.4
20°	1776.5	1784.4	1774.0	1766.1	1761.0	1755.8	1745.4	1729.9	1724.6	1706.5	1693.6
22.5°	1729.9	1740.2	1724.6	1716.9	1711.8	1704.0	1693.6	1678.0	1670.2	1646.9	1631.4
25°	1672.9	1678.0	1665.0	1657.2	1646.9	1641.8	1633.9	1613.1	1605.4	1579.5	1561.2
27.5°	1600.2	1605.4	1589.9	1584.6	1571.6	1566.5	1556.1	1538.0	1527.6	1501.6	1483.5
30°	1509.4	1514.6	1504.2	1496.5	1486.1	1475.8	1467.9	1449.8	1434.2	1408.2	1392.8
32.5°	1408.2	1416.0	1405.6	1395.2	1377.1	1379.8	1366.8	1348.6	1335.6	1312.4	1294.1
35°	1294.1	1299.4	1286.4	1283.8	1273.4	1263.0	1250.1	1237.1	1229.4	1203.4	1187.9
37.5°	1167.1	1180.0	1167.1	1156.8	1151.5	1143.8	1136.0	1117.8	1112.6	1097.0	1076.2
40°	1045.1	1053.0	1045.1	1034.8	1027.0	1027.0	1016.6	1006.2	993.4	977.8	970.0
42.5°	936.2	931.1	928.5	923.2	912.9	910.4	907.8	894.8	887.0	871.4	858.5
45°	827.4	829.9	824.8	822.1	814.4	809.1	804.0	793.6	791.0	775.5	765.1
47.5°	736.5	734.0	728.8	728.8	723.6	718.4	713.2	705.4	702.9	689.9	679.5
50°	653.6	656.1	653.6	651.0	643.2	640.6	635.4	630.2	625.0	612.1	601.8
52.5°	586.1	583.5	581.0	581.0	573.1	570.6	565.4	560.2	555.0	542.0	534.2
55°	523.9	523.9	521.2	518.8	510.9	508.4	505.8	500.5	492.8	482.4	474.6
57.5°	466.9	466.9	464.2	461.6	456.5	456.5	451.2	446.1	440.9	430.5	420.1
60°	415.0	417.5	415.0	412.4	407.1	407.1	404.6	396.8	394.2	381.2	373.5
62.5°	370.9	370.9	370.9	368.2	365.6	360.5	360.5	352.8	347.5	339.8	329.4
65°	329.4	329.4	329.4	326.8	321.6	319.0	316.4	311.2	306.0	298.2	287.9
67.5°	290.5	290.5	290.5	287.9	282.8	280.1	277.5	274.9	267.1	259.4	249.0
70°	254.1	254.1	251.6	249.0	246.4	243.8	241.2	236.0	230.9	220.5	212.6
72.5°	217.9	217.9	217.9	212.6	210.1	210.1	204.9	202.2	197.1	186.8	179.0
75°	184.1	181.5	181.5	179.0	176.4	173.8	171.1	168.6	160.8	155.6	145.2
77.5°	150.4	150.4	147.9	145.2	145.2	142.6	140.0	134.9	132.2	124.5	116.8
80°	116.8	116.8	116.8	116.8	114.1	111.5	111.5	106.4	103.8	96.0	90.8
82.5°	88.1	85.6	85.6	85.6	83.0	80.4	80.4	77.8	75.2	70.0	64.9
85°	51.9	49.2	49.2	49.2	46.6	46.6	44.1	44.1	41.5	36.2	36.2
87.5°	15.5	15.5	18.1	18.1	15.5	15.5	15.5	15.5	15.5	13.0	13.0
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: P252504

CATALOG NUMBER: LE_6B40D010 EC6B30509730 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1867.4	1867.4	1867.4	1867.4	1867.4	1867.4	1867.4	1867.4	1867.4	1867.4	1867.4
2.5°	1872.5	1880.2	1869.9	1867.4	1877.8	1872.5	1869.9	1864.8	1867.4	1862.1	1854.4
5°	1869.9	1880.2	1867.4	1859.5	1872.5	1864.8	1859.5	1854.4	1854.4	1844.0	1838.8
7.5°	1862.1	1867.4	1854.4	1846.6	1854.4	1846.6	1841.4	1833.6	1831.0	1818.0	1810.2
10°	1841.4	1846.6	1831.0	1820.6	1828.4	1818.0	1810.2	1802.5	1797.2	1781.8	1771.4
12.5°	1812.9	1815.5	1797.2	1784.4	1789.5	1781.8	1768.8	1758.4	1753.2	1737.6	1724.6
15°	1774.0	1776.5	1755.8	1737.6	1742.9	1732.5	1716.9	1706.5	1698.8	1683.2	1665.0
17.5°	1727.2	1724.6	1701.4	1683.2	1685.8	1672.9	1657.2	1641.8	1631.4	1613.1	1600.2
20°	1675.4	1667.6	1641.8	1621.0	1623.5	1608.0	1589.9	1574.2	1561.2	1545.8	1527.6
22.5°	1610.6	1600.2	1576.9	1550.9	1553.5	1540.5	1514.6	1501.6	1488.6	1467.9	1452.4
25°	1540.5	1525.0	1501.6	1475.8	1475.8	1460.1	1439.4	1423.9	1410.9	1390.1	1372.0
27.5°	1457.5	1449.8	1418.6	1397.9	1395.2	1379.8	1361.6	1343.5	1327.9	1309.8	1291.6
30°	1366.8	1353.9	1330.5	1307.1	1302.0	1289.0	1270.9	1250.1	1239.8	1221.5	1206.0
32.5°	1270.9	1257.9	1231.9	1208.6	1206.0	1195.6	1180.0	1159.2	1148.9	1136.0	1125.6
35°	1161.9	1156.8	1130.8	1112.6	1112.6	1102.2	1086.6	1068.5	1060.8	1047.8	1034.8
37.5°	1058.1	1050.4	1027.0	1011.5	1011.5	998.5	983.0	975.1	967.4	957.0	949.2
40°	949.2	944.0	925.9	910.4	912.9	902.5	892.1	881.8	876.6	871.4	863.6
42.5°	848.1	842.9	829.9	817.0	817.0	809.1	798.8	791.0	785.9	778.0	775.5
45°	757.2	749.5	739.1	726.1	726.1	718.4	713.2	708.0	705.4	700.2	692.5
47.5°	669.1	664.0	653.6	640.6	640.6	640.6	630.2	622.5	622.5	617.2	614.6
50°	593.9	586.1	578.4	568.0	568.0	562.8	555.0	547.2	547.2	544.6	539.5
52.5°	523.9	518.8	508.4	498.0	498.0	492.8	485.0	482.4	479.8	472.0	469.4
55°	464.2	459.0	451.2	438.2	435.8	433.1	425.4	420.1	417.5	409.8	409.8
57.5°	409.8	404.6	391.6	383.9	381.2	376.0	368.2	363.1	360.5	355.2	350.1
60°	363.1	355.2	344.9	334.6	332.0	326.8	319.0	313.9	311.2	300.9	295.6
62.5°	319.0	311.2	300.9	290.5	287.9	282.8	272.4	267.1	262.0	251.6	246.4
65°	277.5	269.8	259.4	249.0	243.8	241.2	230.9	223.0	217.9	210.1	199.8
67.5°	238.6	230.9	220.5	207.5	207.5	199.8	191.9	184.1	176.4	168.6	160.8
70°	202.2	194.5	184.1	173.8	171.1	166.0	158.2	147.9	142.6	132.2	124.5
72.5°	168.6	160.8	150.4	140.0	137.5	132.2	124.5	114.1	106.4	98.5	90.8
75°	137.5	129.6	119.2	111.5	108.9	103.8	96.0	85.6	77.8	72.6	64.9
77.5°	108.9	101.1	93.4	85.6	83.0	77.8	70.0	64.9	57.0	51.9	44.1
80°	83.0	77.8	70.0	64.9	62.2	57.0	51.9	44.1	38.9	33.8	31.1
82.5°	59.6	54.5	49.2	41.5	41.5	36.2	33.8	28.5	23.4	20.8	18.1
85°	33.8	28.5	25.9	23.4	20.8	20.8	18.1	15.5	13.0	10.4	10.4
87.5°	10.4	10.4	7.8	7.8	7.8	7.8	5.1	5.1	5.1	5.1	5.1
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: P252504

CATALOG NUMBER: LE_6B40D010 EC6B30509730 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1867.4	1867.4	1867.4	1867.4	1867.4	1867.4	1867.4	1867.4	1867.4	1867.4	1867.4
2.5°	1854.4	1857.0	1851.8	1857.0	1851.8	1854.4	1849.1	1854.4	1849.1	1854.4	1844.0
5°	1836.2	1836.2	1828.4	1833.6	1828.4	1831.0	1820.6	1823.2	1818.0	1823.2	1812.9
7.5°	1805.1	1807.6	1794.8	1799.9	1792.1	1792.1	1784.4	1786.9	1779.1	1781.8	1774.0
10°	1768.8	1766.1	1753.2	1758.4	1748.0	1748.0	1740.2	1740.2	1729.9	1732.5	1722.1
12.5°	1716.9	1714.4	1698.8	1704.0	1693.6	1693.6	1685.8	1685.8	1675.4	1680.6	1670.2
15°	1657.2	1654.6	1639.1	1641.8	1631.4	1631.4	1621.0	1623.5	1615.8	1621.0	1610.6
17.5°	1589.9	1587.2	1571.6	1574.2	1561.2	1563.9	1556.1	1553.5	1548.4	1550.9	1543.1
20°	1519.8	1514.6	1499.0	1501.6	1496.5	1488.6	1483.5	1486.1	1480.9	1486.1	1478.2
22.5°	1447.1	1436.8	1423.9	1423.9	1418.6	1418.6	1410.9	1416.0	1405.6	1413.5	1408.2
25°	1364.2	1356.4	1346.0	1351.2	1340.9	1340.9	1333.1	1335.6	1330.5	1335.6	1330.5
27.5°	1283.8	1278.6	1263.0	1268.2	1260.5	1263.0	1255.2	1257.9	1255.2	1260.5	1255.2
30°	1198.2	1195.6	1185.2	1185.2	1182.6	1180.0	1177.5	1177.5	1174.9	1182.6	1177.5
32.5°	1117.8	1110.0	1099.6	1107.4	1094.5	1102.2	1097.0	1102.2	1097.0	1102.2	1099.6
35°	1034.8	1032.2	1019.2	1021.9	1019.2	1019.2	1016.6	1016.6	1016.6	1024.5	1024.5
37.5°	946.6	944.0	936.2	938.9	933.6	931.1	931.1	936.2	936.2	941.5	941.5
40°	861.0	863.6	855.9	855.9	853.2	853.2	853.2	858.5	855.9	861.0	858.5
42.5°	775.5	775.5	767.6	770.2	767.6	770.2	770.2	775.5	775.5	778.0	775.5
45°	695.0	695.0	692.5	695.0	689.9	692.5	689.9	695.0	692.5	695.0	695.0
47.5°	614.6	614.6	614.6	612.1	612.1	612.1	612.1	612.1	609.5	614.6	612.1
50°	539.5	542.0	539.5	539.5	536.9	539.5	536.9	536.9	531.6	534.2	534.2
52.5°	472.0	472.0	466.9	466.9	466.9	464.2	464.2	464.2	461.6	461.6	456.5
55°	407.1	407.1	402.0	402.0	399.4	396.8	394.2	394.2	386.4	386.4	378.6
57.5°	347.5	344.9	337.1	337.1	332.0	329.4	326.8	324.2	319.0	313.9	311.2
60°	293.1	287.9	282.8	280.1	274.9	269.8	264.5	259.4	254.1	251.6	249.0
62.5°	241.2	233.4	228.2	225.6	220.5	212.6	207.5	202.2	197.1	194.5	189.4
65°	194.5	186.8	179.0	176.4	171.1	166.0	158.2	153.0	147.9	145.2	145.2
67.5°	153.0	145.2	134.9	134.9	129.6	124.5	119.2	114.1	111.5	114.1	114.1
70°	114.1	108.9	101.1	98.5	93.4	88.1	85.6	85.6	85.6	88.1	85.6
72.5°	85.6	77.8	72.6	70.0	67.4	64.9	64.9	64.9	62.2	64.9	64.9
75°	59.6	54.5	49.2	49.2	46.6	46.6	46.6	46.6	46.6	46.6	46.6
77.5°	41.5	36.2	33.8	33.8	33.8	31.1	31.1	31.1	31.1	31.1	31.1
80°	25.9	25.9	23.4	23.4	20.8	20.8	20.8	20.8	20.8	20.8	20.8
82.5°	15.5	15.5	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0
85°	7.8	7.8	7.8	7.8	7.8	5.1	5.1	5.1	5.1	5.1	5.1
87.5°	2.6	2.6	2.6	2.6	2.6	5.1	5.1	5.1	5.1	5.1	5.1
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: P252504

CATALOG NUMBER: LE_6B40D010 EC6B30509730 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1867.4	1867.4	1867.4	1867.4	1867.4	1867.4	1867.4	1867.4
2.5°	1844.0	1851.8	1841.4	1849.1	1846.6	1844.0	1838.8	1849.1
5°	1812.9	1815.5	1805.1	1815.5	1812.9	1807.6	1802.5	1812.9
7.5°	1768.8	1776.5	1763.6	1774.0	1771.4	1766.1	1761.0	1771.4
10°	1719.5	1727.2	1716.9	1724.6	1724.6	1719.5	1711.8	1722.1
12.5°	1665.0	1670.2	1659.9	1670.2	1667.6	1662.5	1659.9	1667.6
15°	1605.4	1613.1	1602.8	1610.6	1608.0	1605.4	1602.8	1610.6
17.5°	1540.5	1548.4	1540.5	1548.4	1548.4	1540.5	1538.0	1543.1
20°	1475.8	1480.9	1473.1	1480.9	1478.2	1478.2	1473.1	1480.9
22.5°	1403.1	1410.9	1405.6	1410.9	1408.2	1408.2	1405.6	1410.9
25°	1330.5	1338.2	1330.5	1338.2	1335.6	1335.6	1330.5	1343.5
27.5°	1257.9	1263.0	1255.2	1265.6	1263.0	1257.9	1260.5	1263.0
30°	1180.0	1185.2	1180.0	1187.9	1187.9	1187.9	1182.6	1187.9
32.5°	1102.2	1110.0	1102.2	1110.0	1107.4	1107.4	1104.9	1110.0
35°	1024.5	1027.0	1021.9	1029.6	1029.6	1032.2	1027.0	1034.8
37.5°	944.0	946.6	944.0	946.6	951.9	944.0	949.2	951.9
40°	861.0	866.2	863.6	866.2	866.2	868.9	866.2	868.9
42.5°	778.0	783.2	778.0	785.9	783.2	783.2	785.9	785.9
45°	692.5	700.2	695.0	700.2	702.9	700.2	700.2	705.4
47.5°	612.1	617.2	614.6	617.2	617.2	617.2	617.2	622.5
50°	531.6	534.2	534.2	536.9	536.9	539.5	534.2	536.9
52.5°	451.2	456.5	456.5	456.5	453.9	456.5	456.5	456.5
55°	378.6	381.2	376.0	381.2	381.2	378.6	378.6	383.9
57.5°	308.6	308.6	308.6	308.6	308.6	306.0	308.6	308.6
60°	243.8	246.4	243.8	243.8	243.8	243.8	241.2	246.4
62.5°	189.4	189.4	186.8	189.4	189.4	189.4	191.9	191.9
65°	147.9	150.4	147.9	150.4	150.4	150.4	150.4	153.0
67.5°	116.8	116.8	116.8	116.8	116.8	116.8	116.8	116.8
70°	88.1	88.1	88.1	90.8	88.1	88.1	88.1	90.8
72.5°	64.9	64.9	64.9	64.9	64.9	64.9	67.4	67.4
75°	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6
77.5°	31.1	31.1	31.1	33.8	31.1	33.8	31.1	31.1
80°	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8
82.5°	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0
85°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
87.5°	5.1	5.1	5.1	5.1	2.6	2.6	2.6	2.6
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)