

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: P252482

Luminaire Tested: **LE_6B30D010 EC6B30508040 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252482
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_6B30D010 EC6B30508040 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS 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: 3248.7 lumens
Efficiency: N/A
Efficacy: 116.0 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

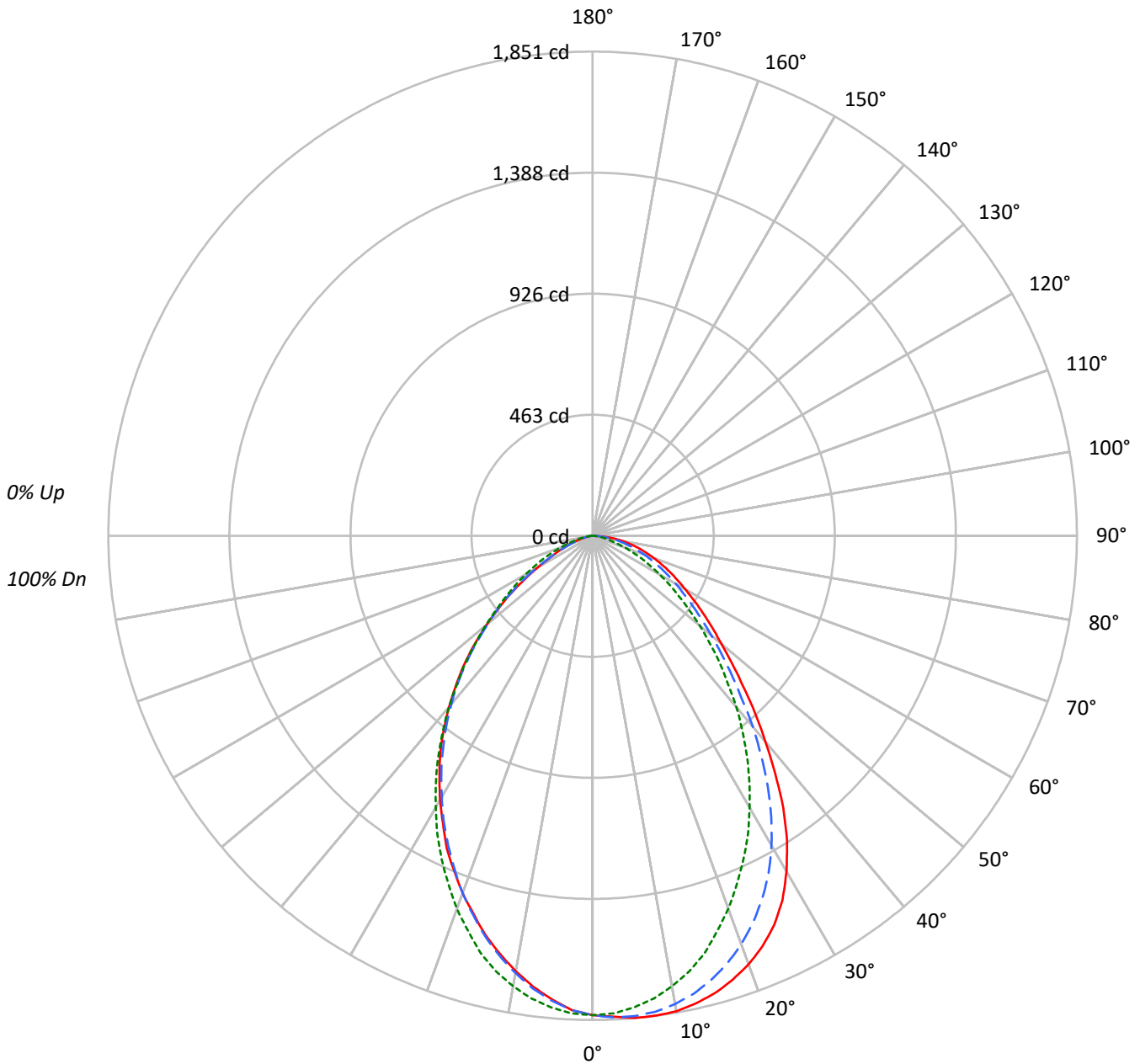
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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				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°	119573	119573	119573
5°	121195	118530	116533
10°	122259	115853	111971
15°	122244	111579	106770
20°	121054	105329	100913
25°	118192	98216	94920
30°	111606	90325	87831
35°	101164	81906	80887
40°	87371	72834	72629
45°	74919	63404	63884
50°	65110	54250	53478
55°	58487	45748	42859
60°	53132	38518	31563
65°	49893	31816	23171
70°	47592	24779	16996
75°	45574	17947	11570
80°	43018	12436	7664
85°	38101	7560	3818



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.4	5.3
10°-20°	469.6	14.5
20°-30°	651.9	20.1
30°-40°	675.2	20.8
40°-50°	554.8	17.1
50°-60°	381.3	11.7
60°-70°	219.2	6.7
70°-80°	100.8	3.1
80°-90°	24.5	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°	1292.8	39.8
0°-40°	1968.0	60.6
0°-60°	2904.2	89.4
0°-90°	3248.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3248.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1833	1833	1833	1833	1833	
5°	1851	1843	1810	1784	1779	176
15°	1810	1756	1652	1586	1581	510
25°	1642	1532	1364	1306	1319	751
35°	1270	1166	1028	998	1016	788
45°	812	751	687	680	692	632
55°	514	466	402	379	377	463
65°	323	282	206	145	150	322
75°	181	142	71	46	46	191
85°	51	36	10	5	5	57
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°	1832.8	1832.8	1832.8	1832.8	1832.8	1832.8	1832.8	1832.8	1832.8	1832.8	1832.8
2.5°	1840.4	1855.6	1845.5	1843.0	1848.0	1848.0	1848.0	1840.4	1845.5	1837.9	1843.0
5°	1850.6	1863.4	1853.1	1848.0	1853.1	1855.6	1848.0	1843.0	1850.6	1840.4	1843.0
7.5°	1850.6	1863.4	1853.1	1850.6	1853.1	1853.1	1850.6	1840.4	1845.5	1835.4	1835.4
10°	1845.5	1855.6	1845.5	1840.4	1843.0	1840.4	1840.4	1827.6	1830.2	1817.5	1817.5
12.5°	1830.2	1843.0	1830.2	1825.1	1825.1	1825.1	1817.5	1807.4	1809.9	1794.6	1792.0
15°	1809.9	1820.0	1807.4	1802.2	1802.2	1799.6	1794.6	1779.4	1779.4	1764.0	1756.4
17.5°	1779.4	1789.5	1779.4	1771.6	1769.1	1764.0	1759.0	1743.6	1738.6	1720.8	1713.1
20°	1743.6	1751.4	1741.1	1733.5	1728.4	1723.4	1713.1	1697.9	1692.8	1675.0	1662.2
22.5°	1697.9	1708.0	1692.8	1685.1	1680.0	1672.4	1662.2	1647.0	1639.4	1616.4	1601.1
25°	1641.9	1647.0	1634.2	1626.6	1616.4	1611.4	1603.6	1583.4	1575.6	1550.2	1532.4
27.5°	1570.6	1575.6	1560.4	1555.4	1542.6	1537.5	1527.4	1509.5	1499.4	1473.9	1456.0
30°	1481.5	1486.6	1476.4	1468.8	1458.6	1448.4	1440.8	1423.0	1407.6	1382.2	1367.0
32.5°	1382.2	1389.9	1379.6	1369.5	1351.6	1354.2	1341.5	1323.6	1311.0	1288.0	1270.2
35°	1270.2	1275.2	1262.6	1260.0	1249.9	1239.6	1227.0	1214.2	1206.6	1181.1	1165.9
37.5°	1145.5	1158.2	1145.5	1135.2	1130.2	1122.6	1115.0	1097.1	1092.0	1076.8	1056.4
40°	1025.9	1033.5	1025.9	1015.6	1008.0	1008.0	997.9	987.6	974.9	959.6	952.0
42.5°	918.9	913.9	911.2	906.2	896.0	893.5	890.9	878.2	870.6	855.2	842.6
45°	812.0	814.6	809.5	806.9	799.2	794.2	789.1	778.9	776.4	761.1	750.9
47.5°	722.9	720.4	715.2	715.2	710.2	705.1	700.0	692.4	689.9	677.1	666.9
50°	641.5	644.0	641.5	638.9	631.2	628.8	623.6	618.5	613.5	600.8	590.5
52.5°	575.2	572.8	570.2	570.2	562.5	560.0	554.9	549.9	544.8	532.0	524.4
55°	514.2	514.2	511.6	509.1	501.5	498.9	496.4	491.2	483.6	473.5	465.9
57.5°	458.2	458.2	455.6	453.1	448.0	448.0	442.9	437.9	432.8	422.5	412.4
60°	407.2	409.9	407.2	404.8	399.6	399.6	397.1	389.5	386.9	374.2	366.5
62.5°	364.0	364.0	364.0	361.5	358.9	353.9	353.9	346.2	341.1	333.5	323.2
65°	323.2	323.2	323.2	320.8	315.6	313.1	310.5	305.5	300.4	292.8	282.5
67.5°	285.1	285.1	285.1	282.5	277.5	274.9	272.4	269.9	262.2	254.5	244.4
70°	249.5	249.5	246.9	244.4	241.9	239.2	236.8	231.6	226.5	216.4	208.8
72.5°	213.9	213.9	213.9	208.8	206.1	206.1	201.1	198.5	193.5	183.2	175.6
75°	180.8	178.1	178.1	175.6	173.1	170.5	168.0	165.5	157.9	152.8	142.5
77.5°	147.6	147.6	145.1	142.5	142.5	140.0	137.5	132.4	129.9	122.1	114.5
80°	114.5	114.5	114.5	114.5	112.0	109.5	109.5	104.4	101.9	94.1	89.1
82.5°	86.5	84.0	84.0	84.0	81.5	78.9	78.9	76.4	73.9	68.8	63.6
85°	50.9	48.4	48.4	48.4	45.9	45.9	43.2	43.2	40.8	35.6	35.6
87.5°	15.2	15.2	17.9	17.9	15.2	15.2	15.2	15.2	15.2	12.8	12.8
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1832.8	1832.8	1832.8	1832.8	1832.8	1832.8	1832.8	1832.8	1832.8	1832.8	1832.8
2.5°	1837.9	1845.5	1835.4	1832.8	1843.0	1837.9	1835.4	1830.2	1832.8	1827.6	1820.0
5°	1835.4	1845.5	1832.8	1825.1	1837.9	1830.2	1825.1	1820.0	1820.0	1809.9	1804.8
7.5°	1827.6	1832.8	1820.0	1812.4	1820.0	1812.4	1807.4	1799.6	1797.1	1784.4	1776.8
10°	1807.4	1812.4	1797.1	1787.0	1794.6	1784.4	1776.8	1769.1	1764.0	1748.8	1738.6
12.5°	1779.4	1781.9	1764.0	1751.4	1756.4	1748.8	1736.0	1725.9	1720.8	1705.5	1692.8
15°	1741.1	1743.6	1723.4	1705.5	1710.6	1700.4	1685.1	1675.0	1667.4	1652.0	1634.2
17.5°	1695.4	1692.8	1669.9	1652.0	1654.6	1641.9	1626.6	1611.4	1601.1	1583.4	1570.6
20°	1644.4	1636.8	1611.4	1591.0	1593.5	1578.2	1560.4	1545.1	1532.4	1517.1	1499.4
22.5°	1580.8	1570.6	1547.6	1522.2	1524.8	1512.0	1486.6	1473.9	1461.1	1440.8	1425.5
25°	1512.0	1496.8	1473.9	1448.4	1448.4	1433.1	1412.8	1397.5	1384.8	1364.4	1346.6
27.5°	1430.6	1423.0	1392.4	1372.0	1369.5	1354.2	1336.4	1318.6	1303.2	1285.5	1267.6
30°	1341.5	1328.8	1305.9	1283.0	1277.9	1265.1	1247.2	1227.0	1216.8	1199.0	1183.6
32.5°	1247.2	1234.6	1209.1	1186.2	1183.6	1173.5	1158.2	1137.9	1127.6	1115.0	1104.8
35°	1140.4	1135.2	1109.9	1092.0	1092.0	1081.9	1066.6	1048.8	1041.1	1028.4	1015.6
37.5°	1038.6	1030.9	1008.0	992.8	992.8	980.0	964.8	957.1	949.5	939.2	931.6
40°	931.6	926.6	908.8	893.5	896.0	885.9	875.6	865.5	860.4	855.2	847.6
42.5°	832.4	827.2	814.6	801.9	801.9	794.2	784.0	776.4	771.2	763.6	761.1
45°	743.2	735.6	725.5	712.8	712.8	705.1	700.0	694.9	692.4	687.2	679.6
47.5°	656.8	651.6	641.5	628.8	628.8	628.8	618.5	610.9	610.9	605.9	603.2
50°	582.9	575.2	567.6	557.5	557.5	552.4	544.8	537.1	537.1	534.5	529.5
52.5°	514.2	509.1	498.9	488.8	488.8	483.6	476.0	473.5	470.9	463.2	460.8
55°	455.6	450.5	442.9	430.2	427.6	425.1	417.5	412.4	409.9	402.2	402.2
57.5°	402.2	397.1	384.4	376.8	374.2	369.1	361.5	356.4	353.9	348.8	343.6
60°	356.4	348.8	338.5	328.4	325.9	320.8	313.1	308.0	305.5	295.2	290.2
62.5°	313.1	305.5	295.2	285.1	282.5	277.5	267.2	262.2	257.1	246.9	241.9
65°	272.4	264.8	254.5	244.4	239.2	236.8	226.5	218.9	213.9	206.1	196.0
67.5°	234.2	226.5	216.4	203.6	203.6	196.0	188.4	180.8	173.1	165.5	157.9
70°	198.5	190.9	180.8	170.5	168.0	162.9	155.2	145.1	140.0	129.9	122.1
72.5°	165.5	157.9	147.6	137.5	134.9	129.9	122.1	112.0	104.4	96.8	89.1
75°	134.9	127.2	117.1	109.5	106.9	101.9	94.1	84.0	76.4	71.2	63.6
77.5°	106.9	99.2	91.6	84.0	81.5	76.4	68.8	63.6	56.0	50.9	43.2
80°	81.5	76.4	68.8	63.6	61.1	56.0	50.9	43.2	38.1	33.1	30.5
82.5°	58.5	53.5	48.4	40.8	40.8	35.6	33.1	28.0	22.9	20.4	17.9
85°	33.1	28.0	25.5	22.9	20.4	20.4	17.9	15.2	12.8	10.1	10.1
87.5°	10.1	10.1	7.6	7.6	7.6	7.6	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1832.8	1832.8	1832.8	1832.8	1832.8	1832.8	1832.8	1832.8	1832.8	1832.8	1832.8
2.5°	1820.0	1822.6	1817.5	1822.6	1817.5	1820.0	1815.0	1820.0	1815.0	1820.0	1809.9
5°	1802.2	1802.2	1794.6	1799.6	1794.6	1797.1	1787.0	1789.5	1784.4	1789.5	1779.4
7.5°	1771.6	1774.2	1761.5	1766.6	1759.0	1759.0	1751.4	1753.9	1746.2	1748.8	1741.1
10°	1736.0	1733.5	1720.8	1725.9	1715.6	1715.6	1708.0	1708.0	1697.9	1700.4	1690.2
12.5°	1685.1	1682.6	1667.4	1672.4	1662.2	1662.2	1654.6	1654.6	1644.4	1649.5	1639.4
15°	1626.6	1624.0	1608.8	1611.4	1601.1	1601.1	1591.0	1593.5	1585.9	1591.0	1580.8
17.5°	1560.4	1557.9	1542.6	1545.1	1532.4	1535.0	1527.4	1524.8	1519.6	1522.2	1514.6
20°	1491.6	1486.6	1471.2	1473.9	1468.8	1461.1	1456.0	1458.6	1453.5	1458.6	1451.0
22.5°	1420.4	1410.2	1397.5	1397.5	1392.4	1392.4	1384.8	1389.9	1379.6	1387.2	1382.2
25°	1339.0	1331.2	1321.1	1326.2	1316.0	1316.0	1308.4	1311.0	1305.9	1311.0	1305.9
27.5°	1260.0	1255.0	1239.6	1244.8	1237.1	1239.6	1232.0	1234.6	1232.0	1237.1	1232.0
30°	1176.0	1173.5	1163.2	1163.2	1160.8	1158.2	1155.6	1155.6	1153.1	1160.8	1155.6
32.5°	1097.1	1089.5	1079.2	1087.0	1074.2	1081.9	1076.8	1081.9	1076.8	1081.9	1079.2
35°	1015.6	1013.1	1000.4	1002.9	1000.4	1000.4	997.9	997.9	997.9	1005.5	1005.5
37.5°	929.1	926.6	918.9	921.5	916.4	913.9	913.9	918.9	918.9	924.0	924.0
40°	845.1	847.6	840.0	840.0	837.5	837.5	837.5	842.6	840.0	845.1	842.6
42.5°	761.1	761.1	753.5	756.0	753.5	756.0	756.0	761.1	761.1	763.6	761.1
45°	682.2	682.2	679.6	682.2	677.1	679.6	677.1	682.2	679.6	682.2	682.2
47.5°	603.2	603.2	603.2	600.8	600.8	600.8	600.8	600.8	598.2	603.2	600.8
50°	529.5	532.0	529.5	529.5	526.9	529.5	526.9	526.9	521.9	524.4	524.4
52.5°	463.2	463.2	458.2	458.2	458.2	455.6	455.6	455.6	453.1	453.1	448.0
55°	399.6	399.6	394.5	394.5	392.0	389.5	386.9	386.9	379.2	379.2	371.6
57.5°	341.1	338.5	330.9	330.9	325.9	323.2	320.8	318.2	313.1	308.0	305.5
60°	287.6	282.5	277.5	274.9	269.9	264.8	259.6	254.5	249.5	246.9	244.4
62.5°	236.8	229.1	224.0	221.5	216.4	208.8	203.6	198.5	193.5	190.9	185.9
65°	190.9	183.2	175.6	173.1	168.0	162.9	155.2	150.1	145.1	142.5	142.5
67.5°	150.1	142.5	132.4	132.4	127.2	122.1	117.1	112.0	109.5	112.0	112.0
70°	112.0	106.9	99.2	96.8	91.6	86.5	84.0	84.0	84.0	86.5	84.0
72.5°	84.0	76.4	71.2	68.8	66.1	63.6	63.6	63.6	61.1	63.6	63.6
75°	58.5	53.5	48.4	48.4	45.9	45.9	45.9	45.9	45.9	45.9	45.9
77.5°	40.8	35.6	33.1	33.1	33.1	30.5	30.5	30.5	30.5	30.5	30.5
80°	25.5	25.5	22.9	22.9	20.4	20.4	20.4	20.4	20.4	20.4	20.4
82.5°	15.2	15.2	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
85°	7.6	7.6	7.6	7.6	7.6	5.1	5.1	5.1	5.1	5.1	5.1
87.5°	2.5	2.5	2.5	2.5	2.5	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: P252482

CATALOG NUMBER: LE_6B30D010 EC6B30508040 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1832.8	1832.8	1832.8	1832.8	1832.8	1832.8	1832.8	1832.8
2.5°	1809.9	1817.5	1807.4	1815.0	1812.4	1809.9	1804.8	1815.0
5°	1779.4	1781.9	1771.6	1781.9	1779.4	1774.2	1769.1	1779.4
7.5°	1736.0	1743.6	1731.0	1741.1	1738.6	1733.5	1728.4	1738.6
10°	1687.6	1695.4	1685.1	1692.8	1692.8	1687.6	1680.0	1690.2
12.5°	1634.2	1639.4	1629.1	1639.4	1636.8	1631.6	1629.1	1636.8
15°	1575.6	1583.4	1573.1	1580.8	1578.2	1575.6	1573.1	1580.8
17.5°	1512.0	1519.6	1512.0	1519.6	1519.6	1512.0	1509.5	1514.6
20°	1448.4	1453.5	1445.9	1453.5	1451.0	1451.0	1445.9	1453.5
22.5°	1377.1	1384.8	1379.6	1384.8	1382.2	1382.2	1379.6	1384.8
25°	1305.9	1313.5	1305.9	1313.5	1311.0	1311.0	1305.9	1318.6
27.5°	1234.6	1239.6	1232.0	1242.2	1239.6	1234.6	1237.1	1239.6
30°	1158.2	1163.2	1158.2	1165.9	1165.9	1165.9	1160.8	1165.9
32.5°	1081.9	1089.5	1081.9	1089.5	1087.0	1087.0	1084.4	1089.5
35°	1005.5	1008.0	1002.9	1010.6	1010.6	1013.1	1008.0	1015.6
37.5°	926.6	929.1	926.6	929.1	934.2	926.6	931.6	934.2
40°	845.1	850.2	847.6	850.2	850.2	852.8	850.2	852.8
42.5°	763.6	768.8	763.6	771.2	768.8	768.8	771.2	771.2
45°	679.6	687.2	682.2	687.2	689.9	687.2	687.2	692.4
47.5°	600.8	605.9	603.2	605.9	605.9	605.9	605.9	610.9
50°	521.9	524.4	524.4	526.9	526.9	529.5	524.4	526.9
52.5°	442.9	448.0	448.0	448.0	445.5	448.0	448.0	448.0
55°	371.6	374.2	369.1	374.2	374.2	371.6	371.6	376.8
57.5°	302.9	302.9	302.9	302.9	302.9	300.4	302.9	302.9
60°	239.2	241.9	239.2	239.2	239.2	239.2	236.8	241.9
62.5°	185.9	185.9	183.2	185.9	185.9	185.9	188.4	188.4
65°	145.1	147.6	145.1	147.6	147.6	147.6	147.6	150.1
67.5°	114.5	114.5	114.5	114.5	114.5	114.5	114.5	114.5
70°	86.5	86.5	86.5	89.1	86.5	86.5	86.5	89.1
72.5°	63.6	63.6	63.6	63.6	63.6	63.6	66.1	66.1
75°	45.9	45.9	45.9	45.9	45.9	45.9	45.9	45.9
77.5°	30.5	30.5	30.5	33.1	30.5	33.1	30.5	30.5
80°	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
82.5°	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
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	2.5	2.5	2.5	2.5
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)