

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: P252283

Luminaire Tested: **LE_6B30D010 EC6B30509730 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252283
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-7)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B30D010 EC6B30509730 6LBSW1H
Description: PORTFOLIO 6 INCH SINGLE 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: 2548.8 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

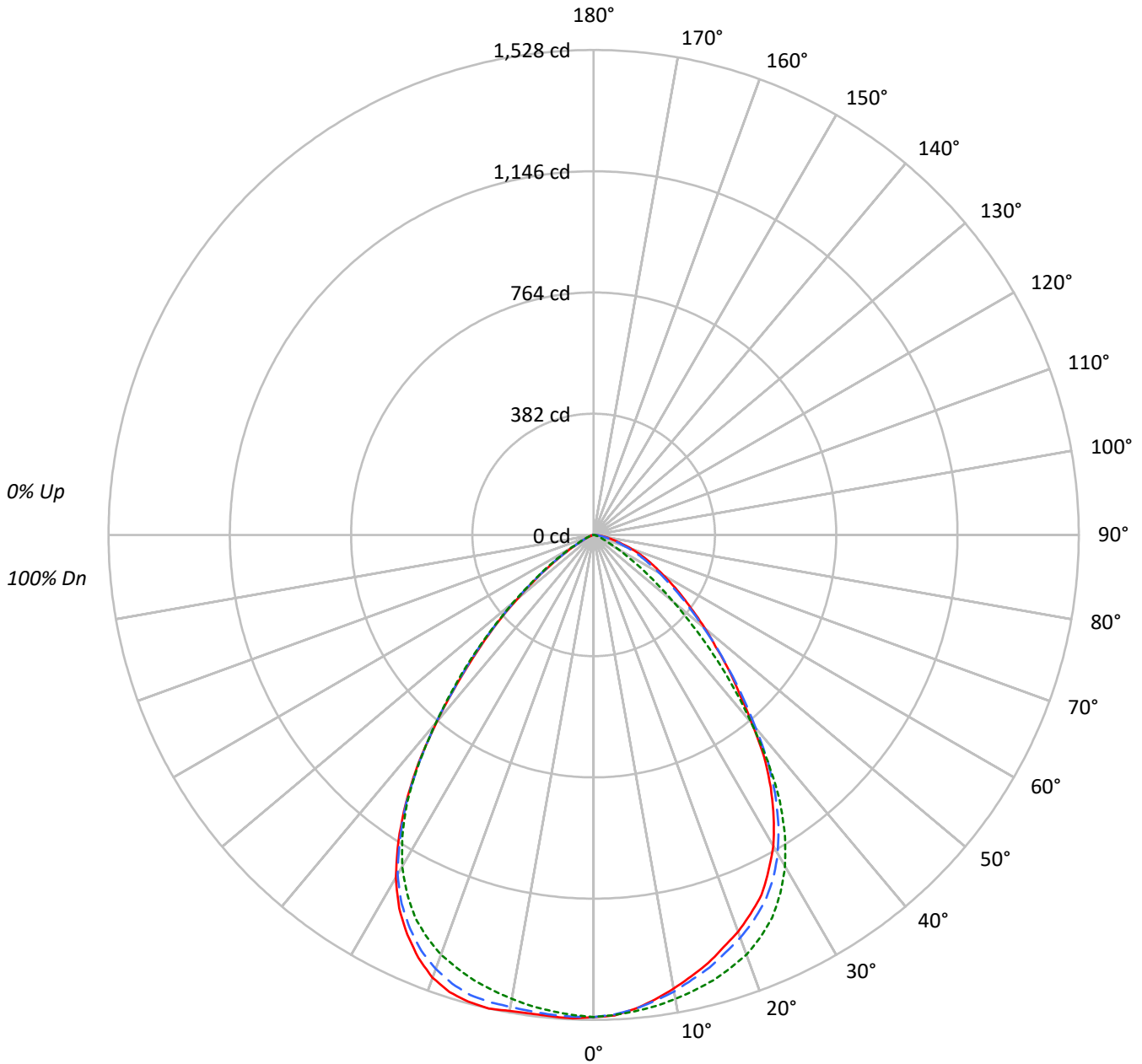
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90					90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80					80			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72					72			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64					64			
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58					58			
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52					52			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47					47			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43					43			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40					40			
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	99114	99114	99114
5°	98169	98654	99734
10°	96151	98337	100888
15°	94302	98145	102860
20°	92353	97699	103058
25°	90082	95755	99987
30°	85285	90814	93858
35°	77454	81396	82121
40°	66097	65790	65475
45°	55534	49260	47737
50°	46374	33331	31657
55°	39025	20451	18563
60°	33038	10778	9329
65°	28621	5681	4539
70°	23806	3510	2461
75°	17595	2294	1386
80°	13826	1353	714
85°	10929	1422	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.2	5.6
10°-20°	410.0	16.1
20°-30°	605.4	23.8
30°-40°	623.9	24.5
40°-50°	430.9	16.9
50°-60°	212.4	8.3
60°-70°	86.1	3.4
70°-80°	30.7	1.2
80°-90°	6.3	0.2
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°	1158.5	45.5
0°-40°	1782.4	69.9
0°-60°	2425.7	95.2
0°-90°	2548.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2548.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1519	1519	1519	1519	1519	
5°	1499	1499	1506	1517	1523	142
15°	1396	1411	1453	1501	1523	393
25°	1251	1275	1330	1369	1389	572
35°	972	996	1022	1028	1031	603
45°	602	606	534	527	517	465
55°	343	330	180	169	163	310
65°	185	167	37	29	29	184
75°	70	59	9	6	6	78
85°	15	11	2	0	0	18
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°	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2
2.5°	1515.5	1510.0	1513.8	1506.4	1515.5	1506.4	1508.2	1510.0	1508.2	1510.0	1511.9
5°	1499.0	1493.5	1499.0	1489.9	1499.0	1493.5	1493.5	1495.4	1495.4	1497.2	1499.0
7.5°	1477.0	1471.5	1477.0	1467.9	1478.9	1473.4	1473.4	1477.0	1475.1	1477.0	1480.6
10°	1451.4	1444.0	1449.5	1444.0	1455.0	1447.6	1451.4	1451.4	1451.4	1456.9	1460.5
12.5°	1423.8	1416.5	1423.8	1414.6	1425.6	1420.1	1422.0	1427.5	1429.2	1433.0	1434.8
15°	1396.2	1387.1	1390.8	1385.2	1396.2	1390.8	1392.6	1400.0	1400.0	1405.5	1411.0
17.5°	1361.4	1354.1	1361.4	1354.1	1363.2	1359.6	1363.2	1368.8	1368.8	1374.2	1379.8
20°	1330.2	1322.9	1328.4	1322.9	1333.9	1328.4	1330.2	1337.6	1339.4	1344.9	1350.4
22.5°	1291.8	1286.2	1289.9	1284.4	1295.4	1291.8	1293.5	1300.9	1302.8	1306.4	1315.5
25°	1251.4	1240.4	1245.9	1242.1	1253.1	1247.6	1251.4	1258.6	1262.4	1267.9	1275.1
27.5°	1192.6	1187.1	1190.8	1190.8	1200.0	1194.5	1196.2	1203.6	1209.1	1214.6	1223.8
30°	1132.1	1122.9	1126.6	1128.4	1135.8	1132.1	1135.8	1143.1	1144.9	1152.2	1159.6
32.5°	1055.0	1051.4	1058.6	1055.0	1058.6	1058.6	1060.5	1066.0	1069.6	1073.4	1082.5
35°	972.5	965.1	972.5	968.8	978.0	972.5	978.0	983.5	983.5	990.8	996.2
37.5°	882.5	873.4	877.0	877.0	880.8	878.9	878.9	888.0	889.9	895.4	900.9
40°	776.1	772.5	779.8	778.0	779.8	779.8	781.6	787.1	790.8	792.6	794.5
42.5°	680.8	682.5	684.4	684.4	684.4	684.4	684.4	691.8	689.9	695.4	697.2
45°	601.9	594.5	598.1	596.2	601.9	596.2	601.9	607.4	603.6	609.1	605.5
47.5°	521.1	521.1	521.1	519.2	522.9	521.1	524.8	526.6	526.6	526.6	524.8
50°	456.9	451.4	453.2	453.2	455.0	453.2	456.9	458.8	458.8	455.0	447.8
52.5°	394.5	392.6	392.6	396.4	396.4	394.5	394.5	394.5	394.5	389.0	385.2
55°	343.1	339.4	341.2	341.2	341.2	341.2	343.1	341.2	341.2	335.8	330.2
57.5°	297.2	293.6	293.6	293.6	295.4	293.6	293.6	293.6	291.8	286.2	278.9
60°	253.2	251.4	253.2	253.2	255.0	253.2	253.2	253.2	249.5	244.0	236.8
62.5°	216.5	216.5	216.5	218.4	218.4	216.5	216.5	214.6	212.9	205.5	198.1
65°	185.4	183.5	185.4	185.4	187.1	187.1	185.4	183.5	181.6	174.2	167.0
67.5°	154.1	152.2	154.1	154.1	156.0	154.1	154.1	154.1	148.6	145.0	137.6
70°	124.8	122.9	122.9	122.9	124.8	121.1	122.9	122.9	119.2	113.8	106.4
72.5°	95.4	95.4	95.4	95.4	95.4	95.4	93.6	93.6	89.9	84.4	80.8
75°	69.8	69.8	71.5	71.5	69.8	69.8	69.8	67.9	66.0	62.4	58.8
77.5°	51.4	51.4	51.4	51.4	49.5	49.5	49.5	47.8	45.9	44.0	40.4
80°	36.8	36.8	36.8	34.9	36.8	34.9	34.9	34.9	31.2	29.4	27.5
82.5°	25.6	23.9	23.9	23.9	23.9	23.9	23.9	22.0	22.0	20.1	18.4
85°	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6	12.9	11.0	11.0
87.5°	7.4	9.1	9.1	9.1	9.1	9.1	9.1	7.4	7.4	7.4	5.5
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2
2.5°	1511.9	1511.9	1515.5	1510.0	1519.2	1513.8	1511.9	1521.0	1515.5	1513.8	1517.4
5°	1499.0	1500.9	1502.8	1499.0	1508.2	1502.8	1502.8	1511.9	1508.2	1506.4	1511.9
7.5°	1482.5	1484.4	1488.0	1486.1	1493.5	1489.9	1491.8	1500.9	1497.2	1497.2	1502.8
10°	1462.4	1466.0	1469.6	1469.6	1478.9	1475.1	1475.1	1486.1	1482.5	1484.4	1491.8
12.5°	1438.5	1444.0	1449.5	1451.4	1460.5	1455.0	1456.9	1469.6	1467.9	1469.6	1477.0
15°	1412.8	1420.1	1425.6	1425.6	1436.6	1431.1	1436.6	1449.5	1445.9	1453.1	1462.4
17.5°	1383.4	1390.8	1398.1	1400.0	1411.0	1407.2	1414.6	1427.5	1427.5	1431.1	1442.1
20°	1355.9	1365.1	1368.8	1374.2	1385.2	1383.4	1387.1	1401.8	1401.8	1407.2	1418.2
22.5°	1319.2	1328.4	1335.8	1341.2	1350.4	1350.4	1355.9	1368.8	1368.8	1372.4	1383.4
25°	1278.9	1289.9	1295.4	1300.9	1310.0	1308.2	1313.8	1324.8	1326.5	1330.2	1341.2
27.5°	1227.5	1236.6	1244.0	1247.6	1260.5	1253.1	1258.6	1271.5	1269.6	1273.4	1282.5
30°	1163.2	1172.4	1179.8	1179.8	1190.8	1190.8	1196.2	1201.8	1201.8	1205.5	1212.8
32.5°	1088.0	1099.0	1099.0	1104.5	1111.9	1104.5	1111.9	1119.2	1115.5	1121.0	1126.6
35°	1001.8	1007.2	1009.1	1009.1	1014.6	1012.8	1011.0	1016.5	1012.8	1022.0	1027.5
37.5°	897.2	904.5	900.9	904.5	902.8	897.2	897.2	906.4	899.0	900.9	906.4
40°	796.2	796.2	794.5	785.2	787.1	781.6	779.8	781.6	774.2	772.5	779.8
42.5°	691.8	689.9	684.4	671.5	673.4	664.2	656.9	656.9	653.2	651.4	653.2
45°	598.1	592.6	583.5	568.8	565.1	557.8	543.1	539.4	533.9	533.9	535.8
47.5°	511.9	504.6	489.9	473.4	464.2	455.0	440.4	434.9	425.6	422.0	425.6
50°	440.4	427.5	409.1	385.2	376.1	365.1	350.5	341.2	332.1	328.4	326.6
52.5°	374.2	356.0	337.6	308.2	300.9	289.9	269.8	260.5	251.4	244.0	244.0
55°	317.4	300.9	275.2	247.8	236.8	225.6	205.5	192.6	183.5	179.8	176.1
57.5°	266.0	247.8	223.9	194.5	183.5	172.5	152.2	139.5	130.2	124.8	121.1
60°	223.9	203.6	179.8	154.1	141.2	130.2	110.1	97.2	88.1	82.6	78.9
62.5°	183.5	167.0	143.1	119.2	108.2	97.2	80.8	67.9	58.8	55.0	49.5
65°	154.1	137.6	115.6	95.4	86.2	75.2	60.5	49.5	42.2	36.8	33.0
67.5°	124.8	111.9	93.6	75.2	66.0	58.8	45.9	36.8	29.4	25.6	23.9
70°	99.1	86.2	71.5	56.9	51.4	44.0	34.9	25.6	22.0	18.4	16.5
72.5°	73.4	64.2	53.2	42.2	36.8	33.0	23.9	20.1	14.6	12.9	11.0
75°	53.2	45.9	38.5	29.4	25.6	23.9	18.4	12.9	11.0	9.1	7.4
77.5°	36.8	33.0	25.6	20.1	18.4	16.5	12.9	9.1	7.4	5.5	5.5
80°	23.9	20.1	16.5	12.9	12.9	11.0	7.4	5.5	5.5	3.6	3.6
82.5°	14.6	12.9	11.0	9.1	7.4	7.4	5.5	3.6	3.6	1.9	1.9
85°	9.1	7.4	5.5	5.5	3.6	3.6	3.6	1.9	1.9	1.9	1.9
87.5°	3.6	3.6	3.6	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0
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°	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2
2.5°	1517.4	1517.4	1521.0	1515.5	1519.2	1519.2	1522.9	1515.5	1519.2	1521.0	1524.8
5°	1510.0	1511.9	1515.5	1513.8	1515.5	1515.5	1519.2	1510.0	1517.4	1517.4	1522.9
7.5°	1502.8	1502.8	1506.4	1504.5	1508.2	1510.0	1513.8	1506.4	1513.8	1513.8	1519.2
10°	1493.5	1493.5	1499.0	1497.2	1502.8	1504.5	1510.0	1502.8	1510.0	1511.9	1517.4
12.5°	1480.6	1482.5	1488.0	1488.0	1493.5	1497.2	1502.8	1499.0	1508.2	1510.0	1517.4
15°	1466.0	1469.6	1477.0	1475.1	1480.6	1486.1	1493.5	1488.0	1500.9	1504.5	1511.9
17.5°	1447.6	1451.4	1456.9	1456.9	1462.4	1466.0	1475.1	1471.5	1482.5	1484.4	1493.5
20°	1420.1	1425.6	1433.0	1431.1	1436.6	1440.4	1447.6	1444.0	1455.0	1458.6	1467.9
22.5°	1387.1	1390.8	1396.2	1396.2	1401.8	1405.5	1412.8	1407.2	1418.2	1420.1	1427.5
25°	1343.1	1346.8	1350.4	1352.2	1357.8	1359.6	1363.2	1359.6	1368.8	1370.6	1379.8
27.5°	1286.2	1288.0	1293.5	1293.5	1297.2	1299.0	1304.5	1297.2	1310.0	1310.0	1315.5
30°	1218.2	1216.5	1223.8	1220.1	1223.8	1223.8	1229.4	1225.6	1234.9	1231.1	1236.6
32.5°	1128.4	1132.1	1132.1	1128.4	1135.8	1133.9	1133.9	1130.2	1135.8	1137.6	1141.2
35°	1023.9	1029.4	1029.4	1031.1	1033.0	1027.5	1029.4	1018.2	1027.5	1029.4	1031.1
37.5°	910.0	904.5	908.2	902.8	911.9	900.9	900.9	893.5	900.9	900.9	902.8
40°	779.8	778.0	781.6	778.0	776.1	774.2	770.6	765.1	772.5	768.8	774.2
42.5°	656.9	655.0	655.0	651.4	649.5	649.5	645.9	642.1	640.4	640.4	649.5
45°	530.2	533.9	530.2	528.4	532.1	528.4	530.2	522.9	526.6	522.9	526.6
47.5°	423.9	425.6	422.0	418.4	423.9	418.4	418.4	412.9	420.1	420.1	416.5
50°	328.4	326.6	322.9	326.6	324.8	324.8	324.8	319.2	322.9	317.4	321.1
52.5°	242.2	240.4	240.4	238.5	240.4	238.5	238.5	236.8	236.8	234.9	236.8
55°	176.1	174.2	170.6	170.6	170.6	172.5	170.6	168.8	168.8	167.0	168.8
57.5°	119.2	115.6	115.6	115.6	115.6	113.8	113.8	111.9	113.8	111.9	113.8
60°	77.0	77.0	73.4	73.4	73.4	73.4	73.4	71.5	73.4	73.4	73.4
62.5°	47.8	47.8	45.9	44.0	45.9	44.0	44.0	44.0	45.9	44.0	45.9
65°	31.2	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4
67.5°	22.0	20.1	20.1	20.1	20.1	20.1	20.1	18.4	20.1	20.1	20.1
70°	14.6	14.6	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9
72.5°	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
75°	7.4	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
77.5°	5.5	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
80°	3.6	3.6	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
82.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
85°	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
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: P252283

CATALOG NUMBER: LE_6B30D010 EC6B30509730 6LBSW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2	1519.2
2.5°	1519.2	1521.0	1517.4	1519.2	1515.5	1519.2	1521.0	1524.8
5°	1515.5	1517.4	1513.8	1517.4	1513.8	1517.4	1519.2	1522.9
7.5°	1511.9	1515.5	1511.9	1515.5	1511.9	1515.5	1517.4	1521.0
10°	1511.9	1517.4	1513.8	1519.2	1513.8	1517.4	1521.0	1522.9
12.5°	1511.9	1517.4	1515.5	1519.2	1517.4	1521.0	1524.8	1528.4
15°	1508.2	1513.8	1510.0	1515.5	1513.8	1515.5	1522.9	1522.9
17.5°	1488.0	1493.5	1493.5	1497.2	1497.2	1502.8	1506.4	1510.0
20°	1462.4	1467.9	1466.0	1471.5	1471.5	1477.0	1480.6	1484.4
22.5°	1423.8	1431.1	1429.2	1434.8	1433.0	1436.6	1444.0	1442.1
25°	1374.2	1383.4	1381.6	1385.2	1383.4	1383.4	1387.1	1389.0
27.5°	1313.8	1319.2	1317.4	1321.0	1317.4	1321.0	1324.8	1326.5
30°	1234.9	1238.5	1236.6	1238.5	1236.6	1240.4	1242.1	1245.9
32.5°	1139.4	1144.9	1139.4	1143.1	1141.2	1141.2	1148.6	1144.9
35°	1025.6	1027.5	1029.4	1029.4	1025.6	1027.5	1031.1	1031.1
37.5°	899.0	908.2	897.2	902.8	900.9	900.9	900.9	906.4
40°	767.0	768.8	765.1	765.1	765.1	763.2	770.6	768.8
42.5°	642.1	644.0	642.1	636.6	638.5	638.5	644.0	636.6
45°	521.1	524.8	522.9	522.9	519.2	519.2	521.1	517.4
47.5°	412.9	416.5	411.0	412.9	409.1	412.9	411.0	414.6
50°	313.8	317.4	315.6	317.4	317.4	313.8	319.2	311.9
52.5°	234.9	236.8	234.9	233.0	231.1	231.1	234.9	233.0
55°	167.0	165.1	165.1	165.1	167.0	167.0	165.1	163.2
57.5°	111.9	111.9	110.1	110.1	111.9	108.2	110.1	108.2
60°	71.5	71.5	71.5	71.5	69.8	71.5	71.5	71.5
62.5°	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
65°	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4
67.5°	18.4	20.1	20.1	20.1	18.4	18.4	18.4	18.4
70°	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9
72.5°	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
75°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
77.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
80°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
82.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0
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)