

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: P252485

Luminaire Tested: **LE_6B30D010 EC6B30509027 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252485
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 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: 2576.2 lumens
Efficiency: N/A
Efficacy: 92.0 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

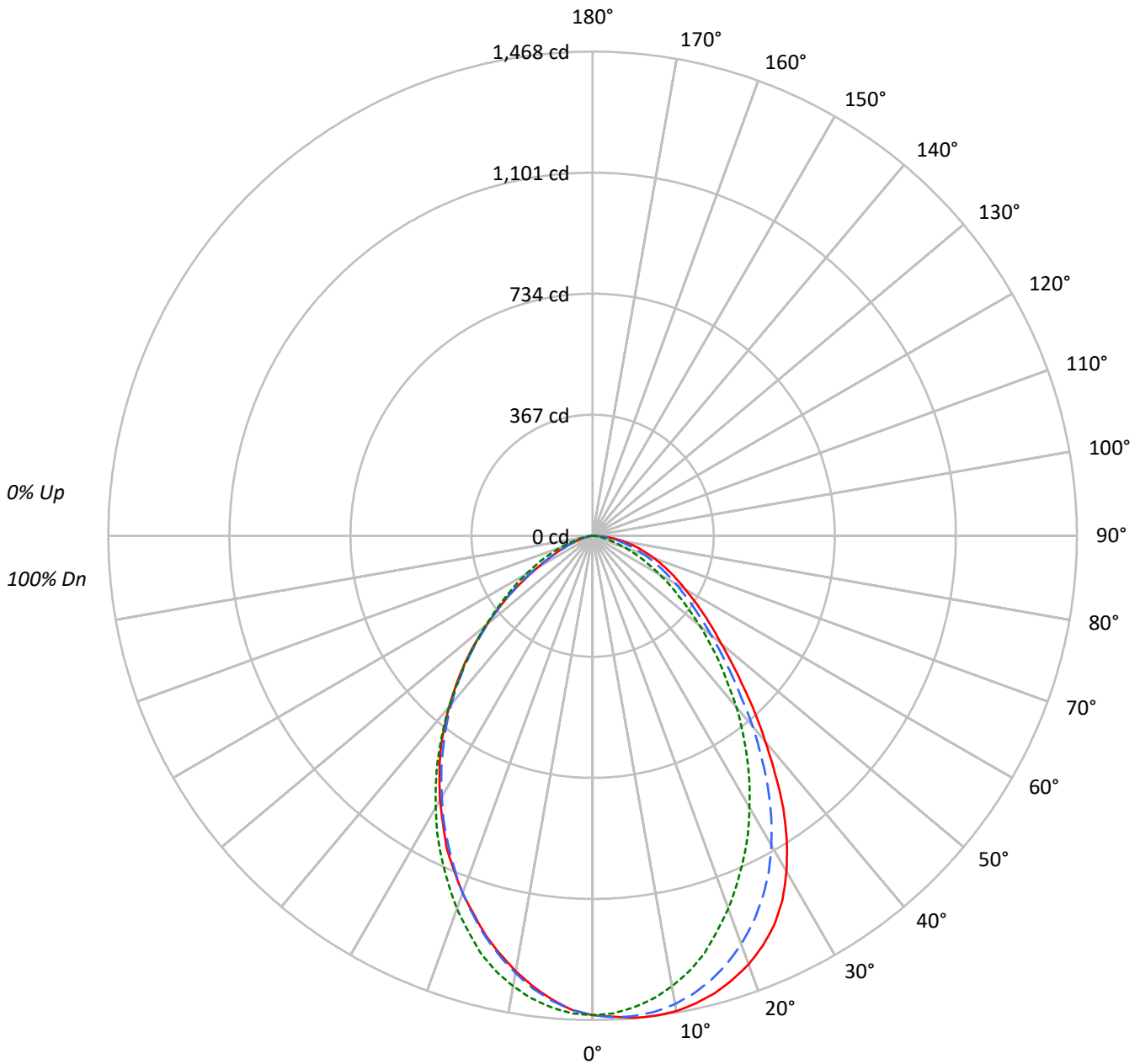
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P252485

CATALOG NUMBER: LE_6B30D010 EC6B30509027 6LBLWW1H

Luminous Intensity Polar Plot





TEST NUMBER: P252485

CATALOG NUMBER: LE_6B30D010 EC6B30509027 6LBLWW1H

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°	94821	94821	94821
5°	96106	93991	92406
10°	96953	91871	88798
15°	96936	88487	84664
20°	96005	83528	80022
25°	93725	77888	75268
30°	88509	71627	69646
35°	80218	64950	64145
40°	69282	57759	57589
45°	59409	50284	50653
50°	51621	43024	42415
55°	46385	36284	33987
60°	42145	30546	25026
65°	39581	25240	18386
70°	37750	19647	13467
75°	36147	14242	9175
80°	34152	9843	6049
85°	30242	6063	2994



TEST NUMBER: P252485

CATALOG NUMBER: LE_6B30D010 EC6B30509027 6LBLWW1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.9	5.3
10°-20°	372.4	14.5
20°-30°	516.9	20.1
30°-40°	535.4	20.8
40°-50°	440.0	17.1
50°-60°	302.4	11.7
60°-70°	173.8	6.7
70°-80°	79.9	3.1
80°-90°	19.4	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°	1025.2	39.8
0°-40°	1560.6	60.6
0°-60°	2303.0	89.4
0°-90°	2576.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2576.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1453	1453	1453	1453	1453	
5°	1468	1462	1435	1415	1411	140
15°	1435	1393	1310	1258	1254	404
25°	1302	1215	1082	1036	1046	596
35°	1007	924	816	791	805	625
45°	644	596	545	539	549	501
55°	408	369	319	301	299	367
65°	256	224	164	115	119	255
75°	143	113	56	36	36	152
85°	40	28	8	4	4	45
90°	0	0	0	0	0	



TEST NUMBER: P252485

CATALOG NUMBER: LE_6B30D010 EC6B30509027 6LBLWW1H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1453.4	1453.4	1453.4	1453.4	1453.4	1453.4	1453.4	1453.4	1453.4	1453.4	1453.4
2.5°	1459.5	1471.5	1463.5	1461.5	1465.5	1465.5	1465.5	1459.5	1463.5	1457.4	1461.5
5°	1467.5	1477.6	1469.5	1465.5	1469.5	1471.5	1465.5	1461.5	1467.5	1459.5	1461.5
7.5°	1467.5	1477.6	1469.5	1467.5	1469.5	1469.5	1467.5	1459.5	1463.5	1455.4	1455.4
10°	1463.5	1471.5	1463.5	1459.5	1461.5	1459.5	1459.5	1449.4	1451.4	1441.2	1441.2
12.5°	1451.4	1461.5	1451.4	1447.4	1447.4	1447.4	1441.2	1433.2	1435.2	1423.1	1421.1
15°	1435.2	1443.2	1433.2	1429.1	1429.1	1427.1	1423.1	1411.0	1411.0	1398.9	1392.9
17.5°	1411.0	1419.1	1411.0	1405.0	1402.9	1398.9	1394.9	1382.8	1378.8	1364.6	1358.5
20°	1382.8	1388.8	1380.8	1374.6	1370.6	1366.6	1358.5	1346.4	1342.4	1328.2	1318.1
22.5°	1346.4	1354.5	1342.4	1336.2	1332.2	1326.2	1318.1	1306.0	1300.0	1281.8	1269.8
25°	1302.0	1306.0	1295.9	1289.9	1281.8	1277.8	1271.8	1255.6	1249.5	1229.4	1215.2
27.5°	1245.5	1249.5	1237.4	1233.4	1223.2	1219.2	1211.1	1197.0	1189.0	1168.8	1154.6
30°	1174.9	1178.9	1170.8	1164.8	1156.6	1148.6	1142.5	1128.4	1116.2	1096.1	1084.0
32.5°	1096.1	1102.1	1094.1	1086.0	1071.9	1073.9	1063.8	1049.6	1039.6	1021.4	1007.2
35°	1007.2	1011.4	1001.2	999.2	991.1	983.0	973.0	962.9	956.9	936.6	924.5
37.5°	908.4	918.5	908.4	900.2	896.2	890.2	884.1	870.0	866.0	853.9	837.8
40°	813.5	819.5	813.5	805.4	799.4	799.4	791.2	783.2	773.1	761.0	755.0
42.5°	728.8	724.6	722.6	718.6	710.5	708.5	706.5	696.4	690.4	678.2	668.1
45°	643.9	646.0	641.9	639.9	633.9	629.8	625.8	617.8	615.6	603.5	595.5
47.5°	573.2	571.2	567.2	567.2	563.1	559.1	555.1	549.0	547.0	537.0	528.9
50°	508.6	510.8	508.6	506.6	500.6	498.6	494.5	490.5	486.5	476.4	468.4
52.5°	456.2	454.1	452.1	452.1	446.1	444.1	440.0	436.0	432.0	421.9	415.9
55°	407.8	407.8	405.8	403.8	397.6	395.6	393.6	389.6	383.5	375.5	369.4
57.5°	363.4	363.4	361.4	359.2	355.2	355.2	351.2	347.2	343.1	335.1	327.0
60°	323.0	325.0	323.0	321.0	316.9	316.9	314.9	308.9	306.9	296.8	290.6
62.5°	288.6	288.6	288.6	286.6	284.6	280.6	280.6	274.5	270.5	264.4	256.4
65°	256.4	256.4	256.4	254.4	250.2	248.2	246.2	242.2	238.2	232.1	224.1
67.5°	226.1	226.1	226.1	224.1	220.0	218.0	216.0	214.0	207.9	201.9	193.8
70°	197.9	197.9	195.8	193.8	191.8	189.8	187.8	183.8	179.6	171.6	165.5
72.5°	169.5	169.5	169.5	165.5	163.5	163.5	159.5	157.5	153.4	145.4	139.2
75°	143.4	141.2	141.2	139.2	137.2	135.2	133.2	131.2	125.1	121.1	113.0
77.5°	117.1	117.1	115.0	113.0	113.0	111.0	109.0	105.0	103.0	96.9	90.9
80°	90.9	90.9	90.9	90.9	88.9	86.8	86.8	82.8	80.8	74.8	70.6
82.5°	68.6	66.6	66.6	66.6	64.6	62.6	62.6	60.5	58.5	54.5	50.5
85°	40.4	38.4	38.4	38.4	36.4	36.4	34.4	34.4	32.2	28.2	28.2
87.5°	12.1	12.1	14.1	14.1	12.1	12.1	12.1	12.1	12.1	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: P252485

CATALOG NUMBER: LE_6B30D010 EC6B30509027 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1453.4	1453.4	1453.4	1453.4	1453.4	1453.4	1453.4	1453.4	1453.4	1453.4	1453.4
2.5°	1457.4	1463.5	1455.4	1453.4	1461.5	1457.4	1455.4	1451.4	1453.4	1449.4	1443.2
5°	1455.4	1463.5	1453.4	1447.4	1457.4	1451.4	1447.4	1443.2	1443.2	1435.2	1431.1
7.5°	1449.4	1453.4	1443.2	1437.2	1443.2	1437.2	1433.2	1427.1	1425.1	1415.0	1409.0
10°	1433.2	1437.2	1425.1	1417.0	1423.1	1415.0	1409.0	1402.9	1398.9	1386.8	1378.8
12.5°	1411.0	1413.0	1398.9	1388.8	1392.9	1386.8	1376.6	1368.6	1364.6	1352.5	1342.4
15°	1380.8	1382.8	1366.6	1352.5	1356.5	1348.4	1336.2	1328.2	1322.1	1310.1	1295.9
17.5°	1344.4	1342.4	1324.2	1310.1	1312.1	1302.0	1289.9	1277.8	1269.8	1255.6	1245.5
20°	1304.0	1298.0	1277.8	1261.6	1263.6	1251.5	1237.4	1225.2	1215.2	1203.1	1189.0
22.5°	1253.5	1245.5	1227.2	1207.1	1209.1	1199.0	1178.9	1168.8	1158.6	1142.5	1130.4
25°	1199.0	1186.9	1168.8	1148.6	1148.6	1136.5	1120.4	1108.2	1098.1	1082.0	1067.9
27.5°	1134.5	1128.4	1104.1	1088.0	1086.0	1073.9	1059.8	1045.6	1033.5	1019.4	1005.2
30°	1063.8	1053.8	1035.5	1017.4	1013.4	1003.2	989.1	973.0	964.9	950.8	938.6
32.5°	989.1	979.0	958.9	940.6	938.6	930.6	918.5	902.2	894.2	884.1	876.1
35°	904.4	900.2	880.1	866.0	866.0	857.9	845.8	831.6	825.6	815.5	805.4
37.5°	823.6	817.5	799.4	787.2	787.2	777.1	765.0	759.0	752.9	744.9	738.8
40°	738.8	734.8	720.6	708.5	710.5	702.5	694.4	686.4	682.2	678.2	672.2
42.5°	660.1	656.0	646.0	635.9	635.9	629.8	621.8	615.6	611.6	605.6	603.5
45°	589.4	583.4	575.2	565.2	565.2	559.1	555.1	551.1	549.0	545.0	539.0
47.5°	520.8	516.8	508.6	498.6	498.6	498.6	490.5	484.5	484.5	480.4	478.4
50°	462.2	456.2	450.1	442.1	442.1	438.0	432.0	425.9	425.9	423.9	419.9
52.5°	407.8	403.8	395.6	387.6	387.6	383.5	377.5	375.5	373.5	367.4	365.4
55°	361.4	357.2	351.2	341.1	339.1	337.1	331.0	327.0	325.0	319.0	319.0
57.5°	319.0	314.9	304.8	298.8	296.8	292.8	286.6	282.6	280.6	276.5	272.5
60°	282.6	276.5	268.5	260.4	258.4	254.4	248.2	244.2	242.2	234.1	230.1
62.5°	248.2	242.2	234.1	226.1	224.1	220.0	212.0	207.9	203.9	195.8	191.8
65°	216.0	209.9	201.9	193.8	189.8	187.8	179.6	173.6	169.5	163.5	155.4
67.5°	185.8	179.6	171.6	161.5	161.5	155.4	149.4	143.4	137.2	131.2	125.1
70°	157.5	151.4	143.4	135.2	133.2	129.2	123.1	115.0	111.0	103.0	96.9
72.5°	131.2	125.1	117.1	109.0	107.0	103.0	96.9	88.9	82.8	76.8	70.6
75°	107.0	100.9	92.9	86.8	84.8	80.8	74.8	66.6	60.5	56.5	50.5
77.5°	84.8	78.8	72.6	66.6	64.6	60.5	54.5	50.5	44.4	40.4	34.4
80°	64.6	60.5	54.5	50.5	48.5	44.4	40.4	34.4	30.2	26.2	24.2
82.5°	46.4	42.4	38.4	32.2	32.2	28.2	26.2	22.2	18.1	16.1	14.1
85°	26.2	22.2	20.1	18.1	16.1	16.1	14.1	12.1	10.1	8.1	8.1
87.5°	8.1	8.1	6.0	6.0	6.0	6.0	4.0	4.0	4.0	4.0	4.0
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: P252485

CATALOG NUMBER: LE_6B30D010 EC6B30509027 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1453.4	1453.4	1453.4	1453.4	1453.4	1453.4	1453.4	1453.4	1453.4	1453.4	1453.4
2.5°	1443.2	1445.2	1441.2	1445.2	1441.2	1443.2	1439.2	1443.2	1439.2	1443.2	1435.2
5°	1429.1	1429.1	1423.1	1427.1	1423.1	1425.1	1417.0	1419.1	1415.0	1419.1	1411.0
7.5°	1405.0	1407.0	1396.9	1400.9	1394.9	1394.9	1388.8	1390.8	1384.8	1386.8	1380.8
10°	1376.6	1374.6	1364.6	1368.6	1360.5	1360.5	1354.5	1354.5	1346.4	1348.4	1340.4
12.5°	1336.2	1334.2	1322.1	1326.2	1318.1	1318.1	1312.1	1312.1	1304.0	1308.0	1300.0
15°	1289.9	1287.9	1275.8	1277.8	1269.8	1269.8	1261.6	1263.6	1257.6	1261.6	1253.5
17.5°	1237.4	1235.4	1223.2	1225.2	1215.2	1217.2	1211.1	1209.1	1205.1	1207.1	1201.0
20°	1182.9	1178.9	1166.8	1168.8	1164.8	1158.6	1154.6	1156.6	1152.6	1156.6	1150.6
22.5°	1126.4	1118.2	1108.2	1108.2	1104.1	1104.1	1098.1	1102.1	1094.1	1100.1	1096.1
25°	1061.8	1055.8	1047.6	1051.6	1043.6	1043.6	1037.5	1039.6	1035.5	1039.6	1035.5
27.5°	999.2	995.1	983.0	987.1	981.0	983.0	977.0	979.0	977.0	981.0	977.0
30°	932.6	930.6	922.5	922.5	920.5	918.5	916.5	916.5	914.4	920.5	916.5
32.5°	870.0	864.0	855.9	862.0	851.9	857.9	853.9	857.9	853.9	857.9	855.9
35°	805.4	803.4	793.2	795.4	793.2	793.2	791.2	791.2	791.2	797.4	797.4
37.5°	736.8	734.8	728.8	730.8	726.8	724.6	724.6	728.8	728.8	732.8	732.8
40°	670.1	672.2	666.1	666.1	664.1	664.1	664.1	668.1	666.1	670.1	668.1
42.5°	603.5	603.5	597.5	599.5	597.5	599.5	599.5	603.5	603.5	605.6	603.5
45°	541.0	541.0	539.0	541.0	537.0	539.0	537.0	541.0	539.0	541.0	541.0
47.5°	478.4	478.4	478.4	476.4	476.4	476.4	476.4	476.4	474.4	478.4	476.4
50°	419.9	421.9	419.9	419.9	417.9	419.9	417.9	417.9	413.8	415.9	415.9
52.5°	367.4	367.4	363.4	363.4	363.4	361.4	361.4	361.4	359.2	359.2	355.2
55°	316.9	316.9	312.9	312.9	310.9	308.9	306.9	306.9	300.8	300.8	294.8
57.5°	270.5	268.5	262.4	262.4	258.4	256.4	254.4	252.4	248.2	244.2	242.2
60°	228.1	224.1	220.0	218.0	214.0	209.9	205.9	201.9	197.9	195.8	193.8
62.5°	187.8	181.6	177.6	175.6	171.6	165.5	161.5	157.5	153.4	151.4	147.4
65°	151.4	145.4	139.2	137.2	133.2	129.2	123.1	119.1	115.0	113.0	113.0
67.5°	119.1	113.0	105.0	105.0	100.9	96.9	92.9	88.9	86.8	88.9	88.9
70°	88.9	84.8	78.8	76.8	72.6	68.6	66.6	66.6	66.6	68.6	66.6
72.5°	66.6	60.5	56.5	54.5	52.5	50.5	50.5	50.5	48.5	50.5	50.5
75°	46.4	42.4	38.4	38.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4
77.5°	32.2	28.2	26.2	26.2	26.2	24.2	24.2	24.2	24.2	24.2	24.2
80°	20.1	20.1	18.1	18.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1
82.5°	12.1	12.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
85°	6.0	6.0	6.0	6.0	6.0	4.0	4.0	4.0	4.0	4.0	4.0
87.5°	2.0	2.0	2.0	2.0	2.0	4.0	4.0	4.0	4.0	4.0	4.0
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: P252485

CATALOG NUMBER: LE_6B30D010 EC6B30509027 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1453.4	1453.4	1453.4	1453.4	1453.4	1453.4	1453.4	1453.4
2.5°	1435.2	1441.2	1433.2	1439.2	1437.2	1435.2	1431.1	1439.2
5°	1411.0	1413.0	1405.0	1413.0	1411.0	1407.0	1402.9	1411.0
7.5°	1376.6	1382.8	1372.6	1380.8	1378.8	1374.6	1370.6	1378.8
10°	1338.4	1344.4	1336.2	1342.4	1342.4	1338.4	1332.2	1340.4
12.5°	1295.9	1300.0	1291.9	1300.0	1298.0	1293.9	1291.9	1298.0
15°	1249.5	1255.6	1247.5	1253.5	1251.5	1249.5	1247.5	1253.5
17.5°	1199.0	1205.1	1199.0	1205.1	1205.1	1199.0	1197.0	1201.0
20°	1148.6	1152.6	1146.5	1152.6	1150.6	1150.6	1146.5	1152.6
22.5°	1092.0	1098.1	1094.1	1098.1	1096.1	1096.1	1094.1	1098.1
25°	1035.5	1041.6	1035.5	1041.6	1039.6	1039.6	1035.5	1045.6
27.5°	979.0	983.0	977.0	985.1	983.0	979.0	981.0	983.0
30°	918.5	922.5	918.5	924.5	924.5	924.5	920.5	924.5
32.5°	857.9	864.0	857.9	864.0	862.0	862.0	859.9	864.0
35°	797.4	799.4	795.4	801.4	801.4	803.4	799.4	805.4
37.5°	734.8	736.8	734.8	736.8	740.9	734.8	738.8	740.9
40°	670.1	674.2	672.2	674.2	674.2	676.2	674.2	676.2
42.5°	605.6	609.6	605.6	611.6	609.6	609.6	611.6	611.6
45°	539.0	545.0	541.0	545.0	547.0	545.0	545.0	549.0
47.5°	476.4	480.4	478.4	480.4	480.4	480.4	480.4	484.5
50°	413.8	415.9	415.9	417.9	417.9	419.9	415.9	417.9
52.5°	351.2	355.2	355.2	355.2	353.2	355.2	355.2	355.2
55°	294.8	296.8	292.8	296.8	296.8	294.8	294.8	298.8
57.5°	240.2	240.2	240.2	240.2	240.2	238.2	240.2	240.2
60°	189.8	191.8	189.8	189.8	189.8	189.8	187.8	191.8
62.5°	147.4	147.4	145.4	147.4	147.4	147.4	149.4	149.4
65°	115.0	117.1	115.0	117.1	117.1	117.1	117.1	119.1
67.5°	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
70°	68.6	68.6	68.6	70.6	68.6	68.6	68.6	70.6
72.5°	50.5	50.5	50.5	50.5	50.5	50.5	52.5	52.5
75°	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4
77.5°	24.2	24.2	24.2	26.2	24.2	26.2	24.2	24.2
80°	16.1	16.1	16.1	16.1	16.1	16.1	16.1	16.1
82.5°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
85°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
87.5°	4.0	4.0	4.0	4.0	2.0	2.0	2.0	2.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)